

PHOTOMETRICS REPORT

# LOGIC AR111 Downlight M



ILUMINARC®

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## Testing Process

### Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion<sup>®</sup>, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

### Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion<sup>®</sup> light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion<sup>®</sup> system every six months as recommended by Viso Systems.

**LOGIC** AR111 Downlight M

# Photometrics & Chromaticity Reports

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# Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power

## Report Summary

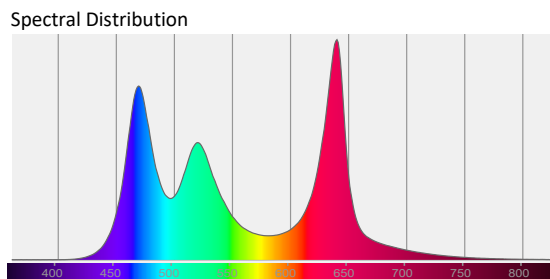
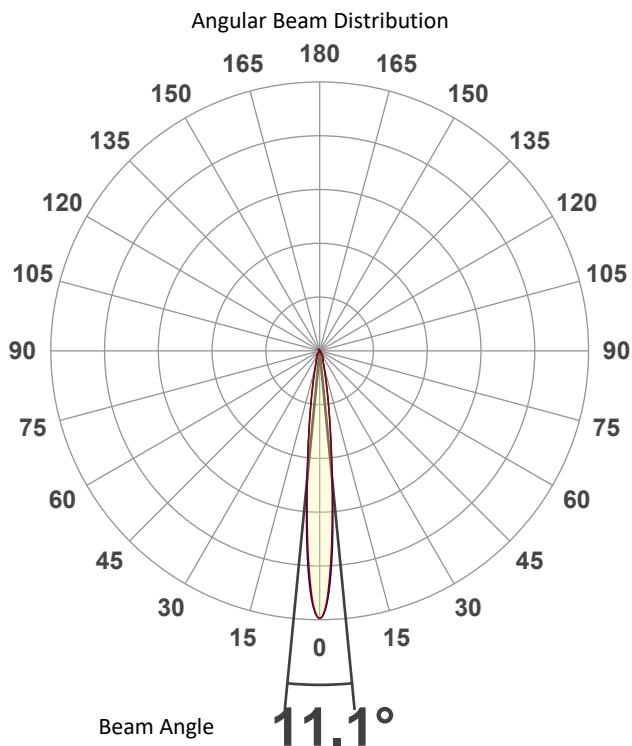
### Measurements

Fixture Output: 1272 lm  
Fixture Peak: 15788 cd  
Fixture Efficacy: 33 lm/W  
Intensity @ 5m: 630 lux  
Color Temperature: 6675 K  
CRI: 47.9      CRI R9 Value: -166.6  
CQS: 60.5  
TLCI: 25  
TM-30 Rf: 59.5  
TM-30 Rg: 101.7  
Beam Angle (50%): 11.1°  
Field Angle (10%): 25.9°  
Cutoff Angle (3%): 54.9°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 40.8 W  
Current: 0.339 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.310  
Y: 0.327

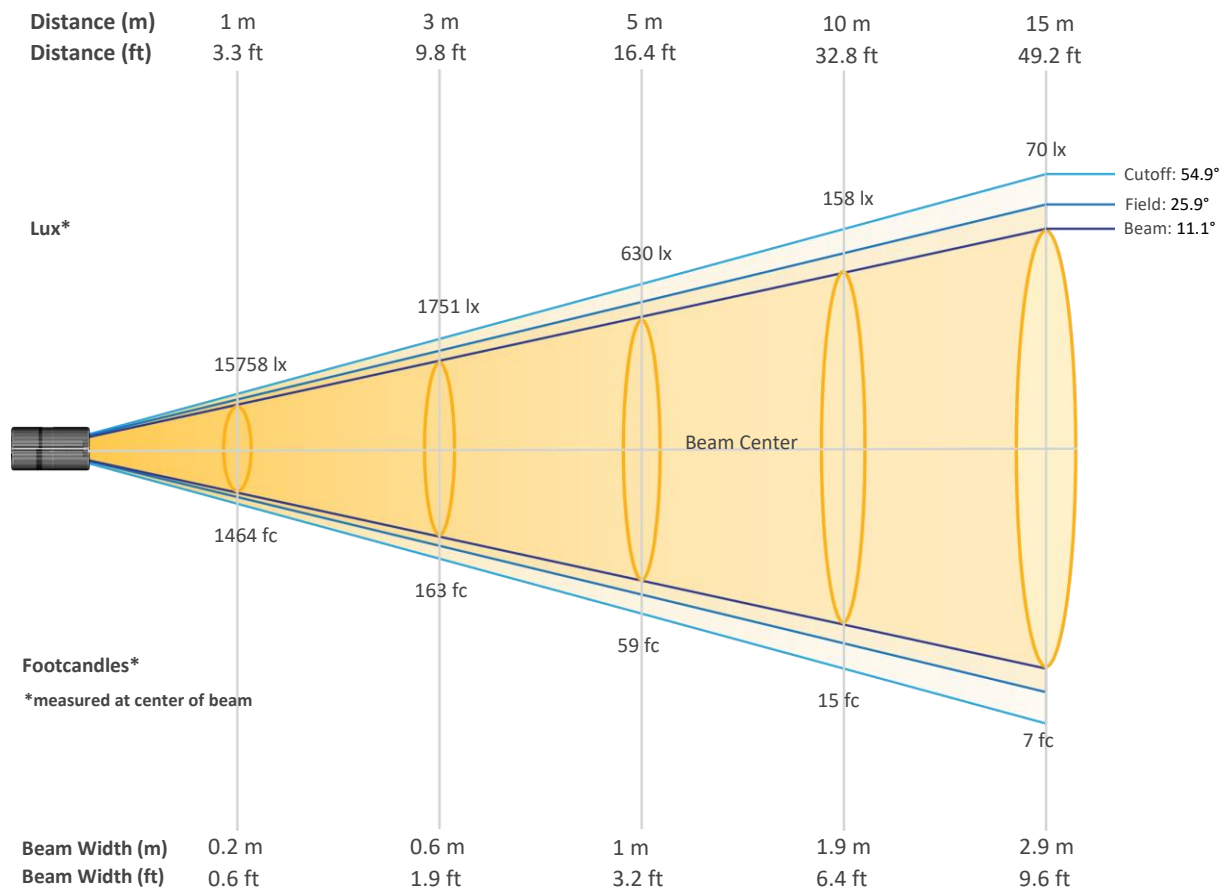
Light Quality  
CRI: 47.9

Color Temperature  
6675 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15758	3940	1751	985	630	438	322	246	195	158
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	130	109	93	80	70	62	55	49	44	39
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1464	366	163	91	59	41	30	23	18	15
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	12	10	9	7	7	6	5	5	4	4

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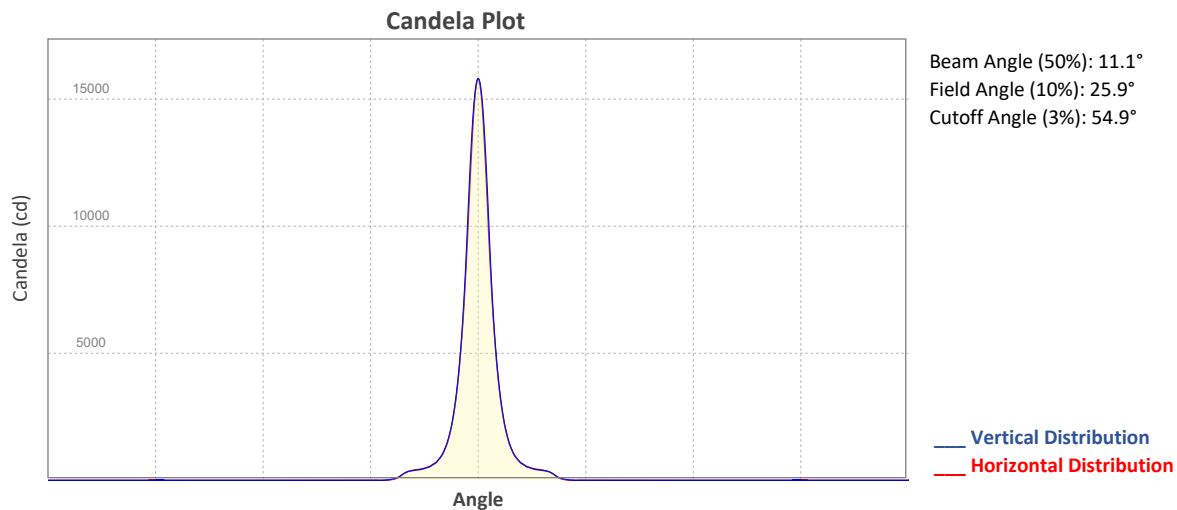
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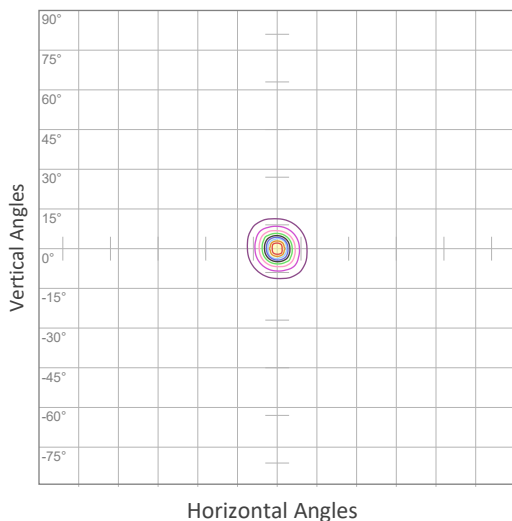
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power



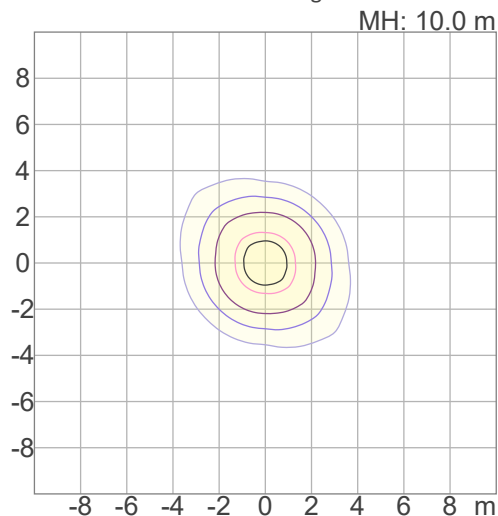
## ISO Diagrams



ISO Candela Diagram

10%	1576 cd
20%	3152 cd
30%	4728 cd
40%	6303 cd
50%	7879 cd
60%	9455 cd
70%	11031 cd
80%	12607 cd
90%	14183 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 15758 cd



ISO Lux Diagram

3%	4.73 lx
5%	7.88 lx
10%	15.8 lx
30%	47.3 lx
50%	78.8 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 158 lx

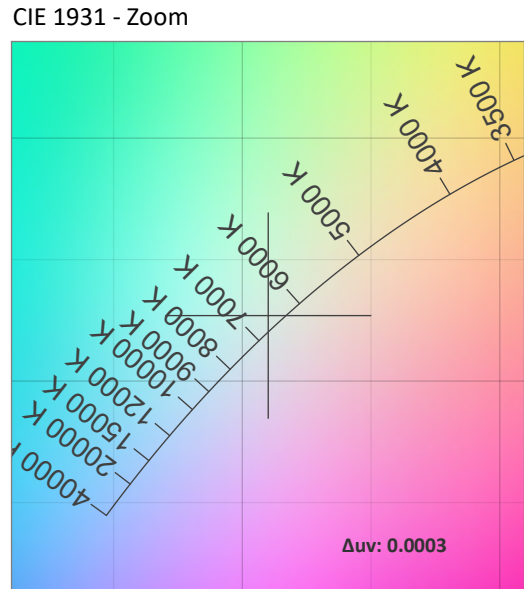
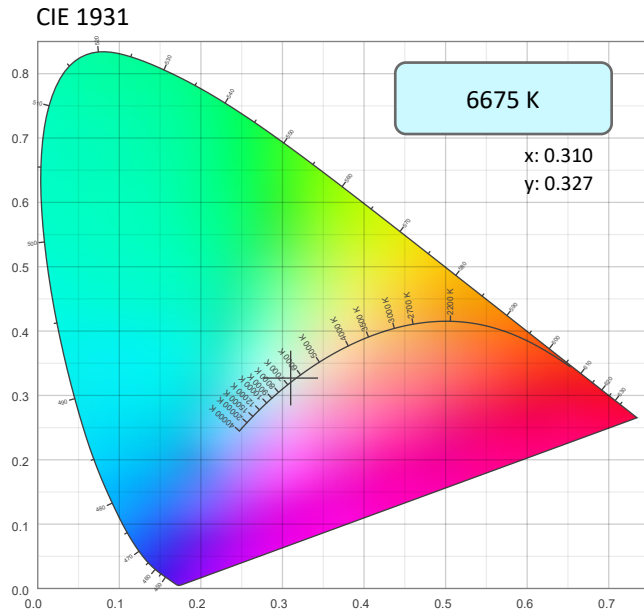
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

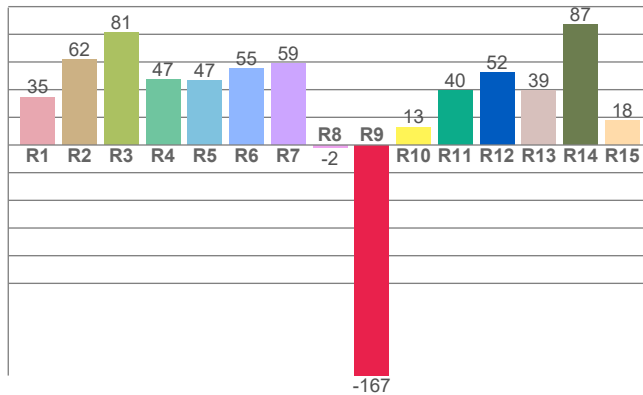
# Photometric & Chromaticity Report

Logic AR111 Downlight M: No Optics - RGBW - Full Power

## Chromaticity



CRI: 47.9 (R1-R8)



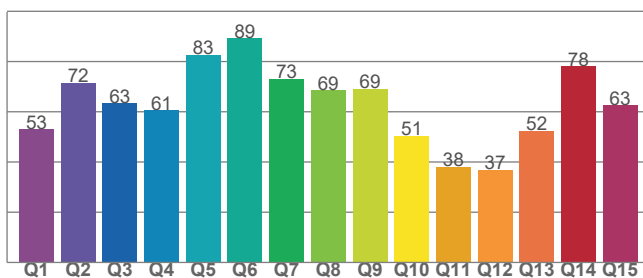
## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6675 K	0.310	0.327

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0003	0.327	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
47.9	-166.6	60.5

CQS: 60.5



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
25	59.5	101.7

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# Photometric & Chromaticity Report

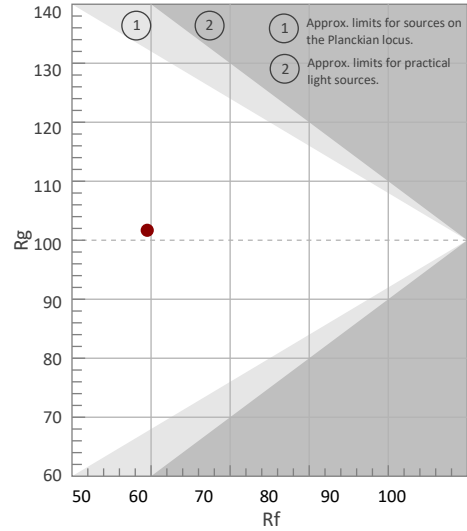
Logic AR111 Downlight M: No Optics - RGBW - Full Power

## TM-30 Details

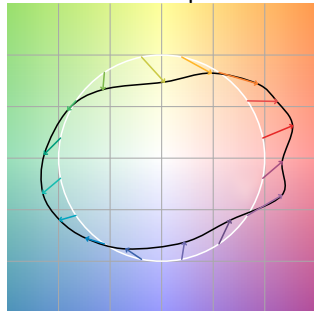
**Rf 59.5**  
Fidelity Index (Rg)

**Rg 101.7**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	42	31%	6%
2	49	23%	-16%
3	41	12%	-37%
4	48	-10%	-31%
5	50	-28%	-17%
6	74	-13%	10%
7	80	2%	11%
8	63	12%	18%
9	73	20%	11%
10	72	16%	-5%
11	64	5%	-18%
12	72	-7%	-17%
13	70	-16%	6%
14	59	-13%	22%
15	51	17%	35%
16	59	15%	19%



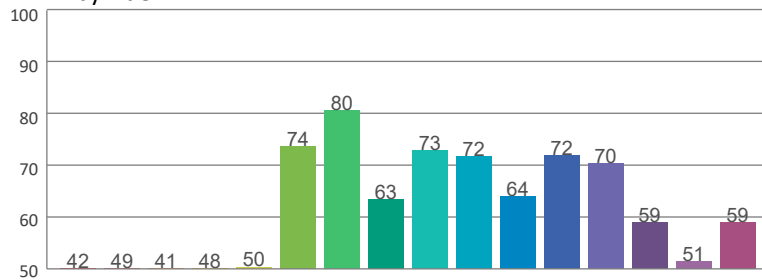
Color Vector Graphic



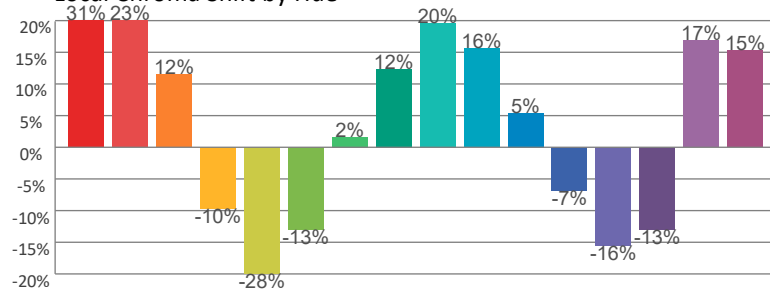
Color Distortion Graphic



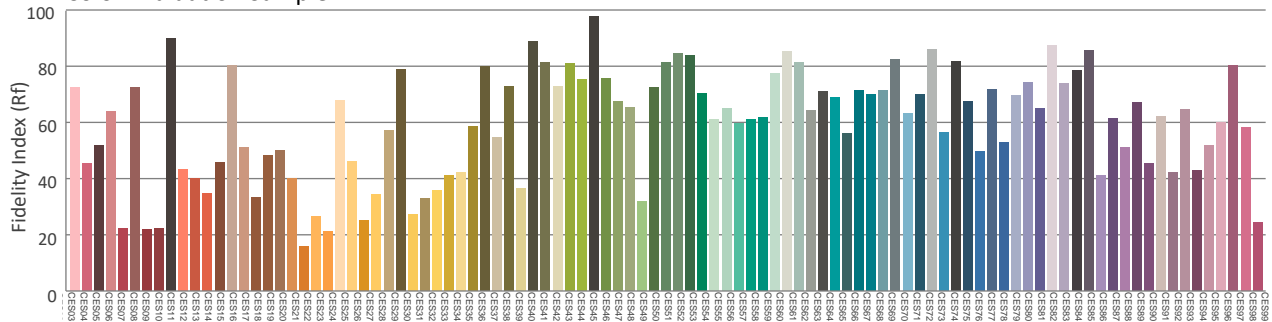
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

## Report Summary

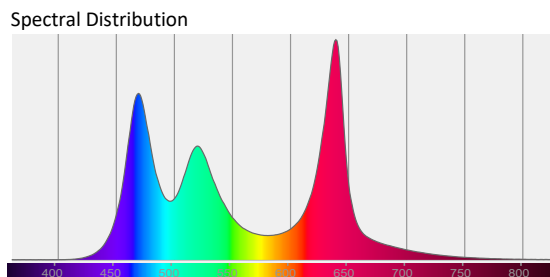
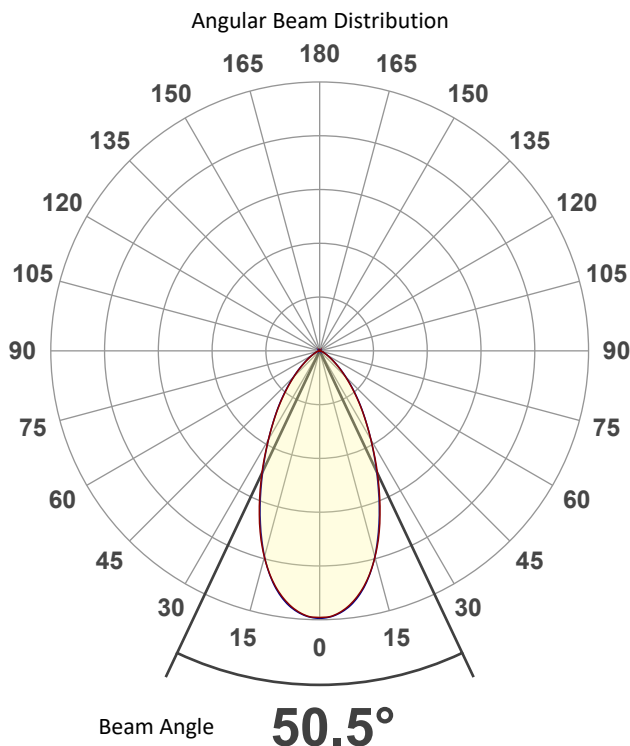
### Measurements

Fixture Output: 1097 lm  
Fixture Peak: 1209 cd  
Fixture Efficacy: 28 lm/W  
Intensity @ 5m: 48 lux  
Color Temperature: 6341 K  
CRI: 46.6      CRI R9 Value: -165.5  
CQS: 61.0  
TLCI: 25  
TM-30 Rf: 59.8  
TM-30 Rg: 103.1  
Beam Angle (50%): 50.5°  
Field Angle (10%): 97.2°  
Cutoff Angle (3%): 125.6°  
Conditions  
AC Supply: 118 V, 60 Hz  
Power: 41.57 W  
Current: 0.352 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

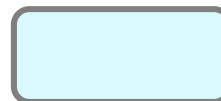
## Overall Measurement



Tested Color (CIE 1931):

X: 0.316

Y: 0.328



Light Quality

CRI: 46.6

Color Temperature

6341 K

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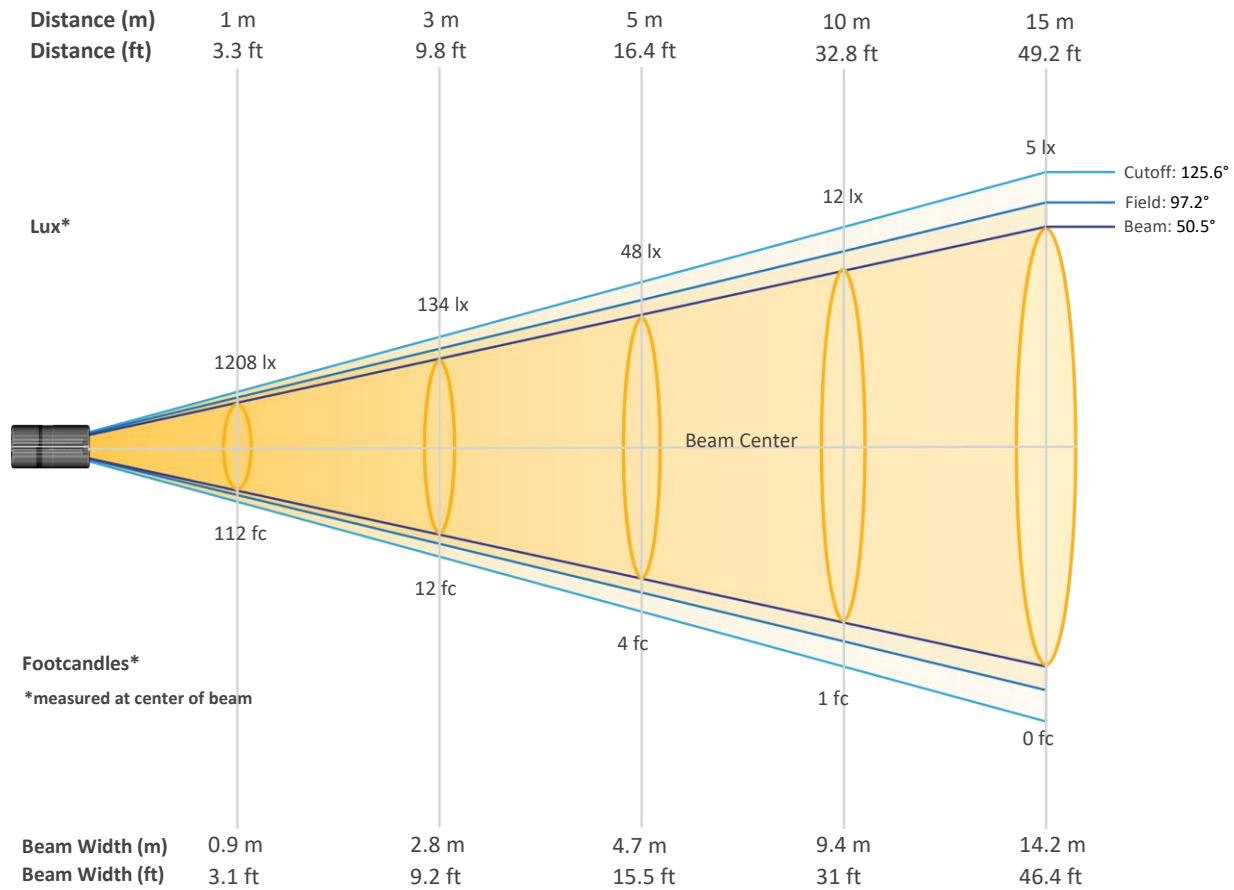
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1208	302	134	75	48	34	25	19	15	12
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	10	8	7	6	5	5	4	4	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	112	28	12	7	4	3	2	2	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	0	0	0	0	0	0

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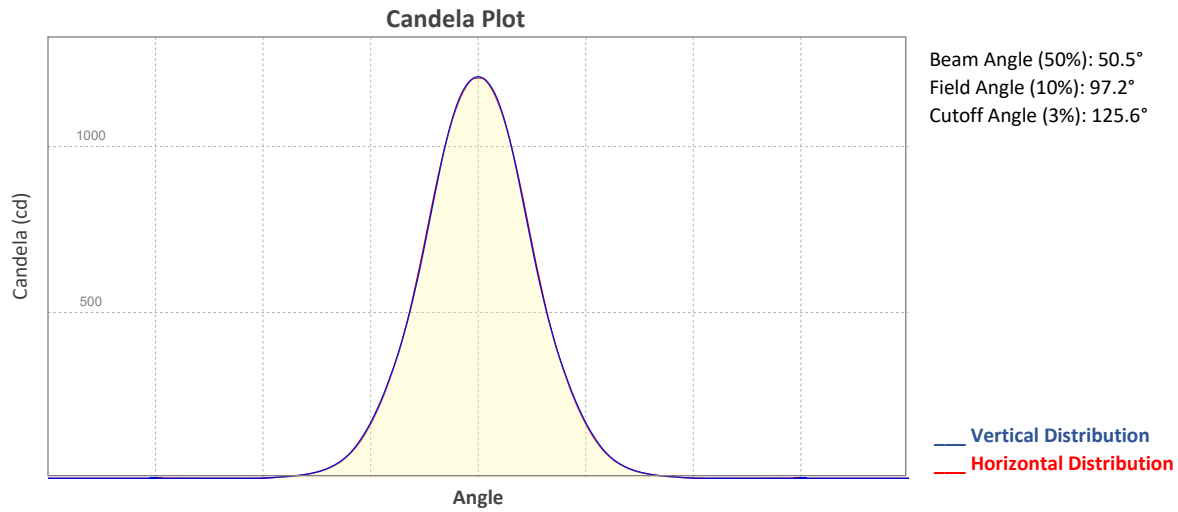
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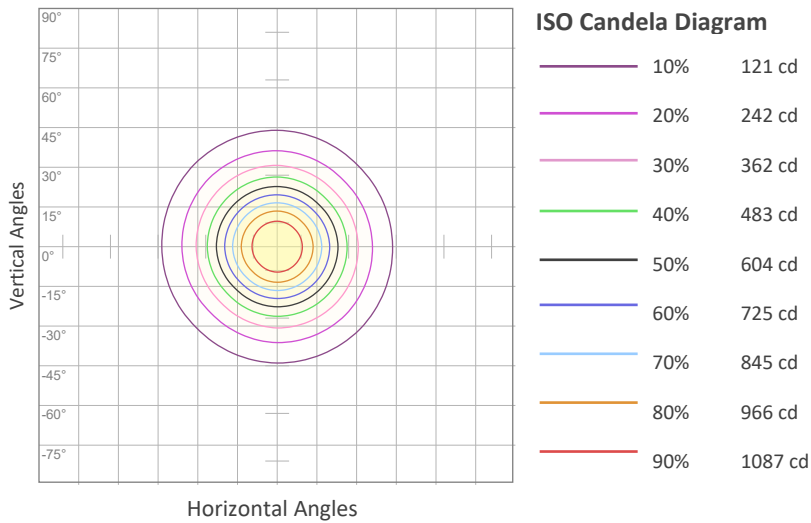
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# Photometric & Chromaticity Report

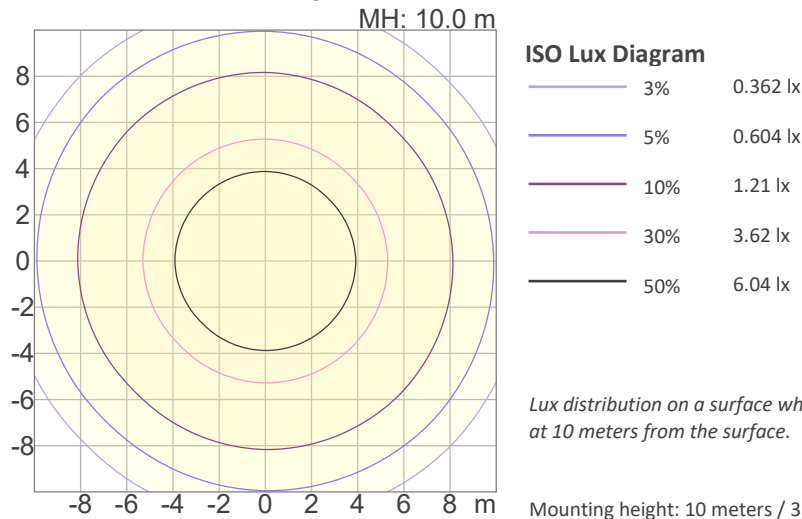
Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 1208 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 12.1 lx

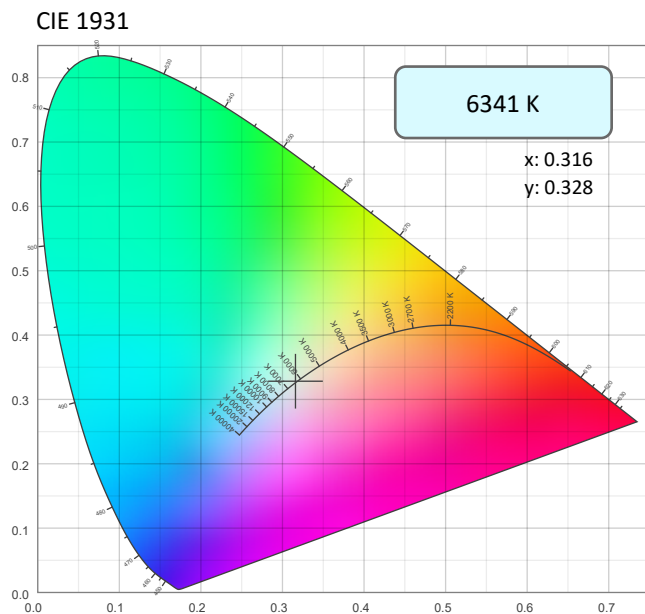
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

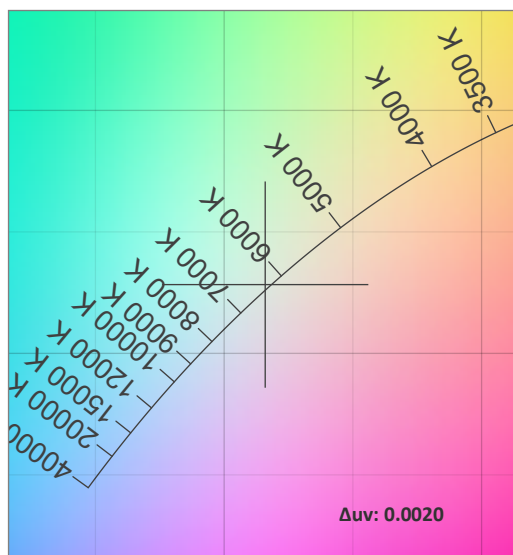
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

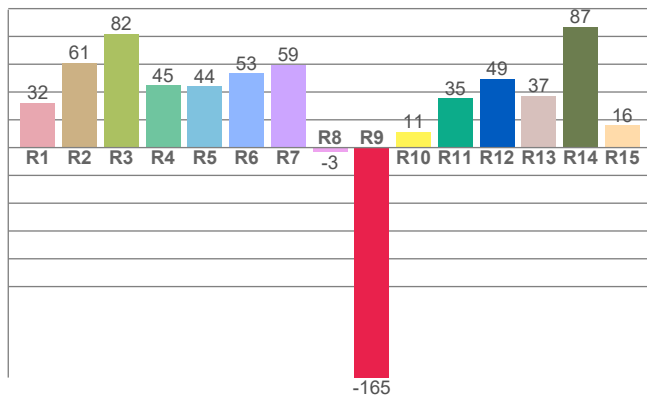
## Chromaticity



CIE 1931 - Zoom



CRI: 46.6 (R1-R8)

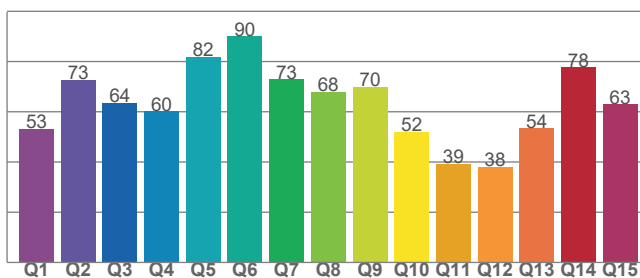


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6341 K	0.316	0.328

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0020	0.328	0.200

CQS: 61.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
46.6	-165.5	61.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
25	59.8	103.1

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# Photometric & Chromaticity Report

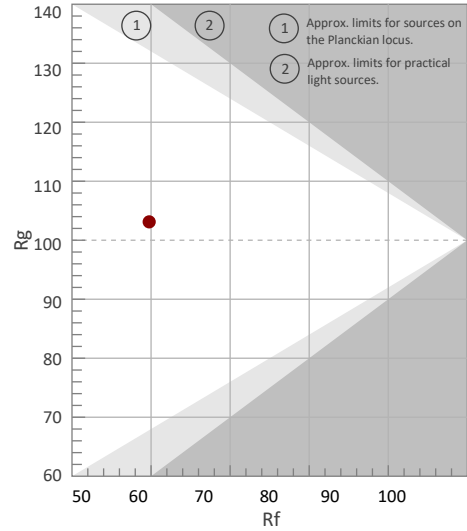
Logic AR111 Downlight M: Medium Filter Lens - RGBW - Full Power

## TM-30 Details

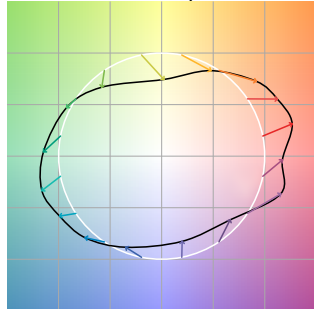
**Rf 59.8**  
Fidelity Index (Rg)

**Rg 103.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	43	30%	6%
2	56	24%	-16%
3	36	11%	-36%
4	49	-9%	-31%
5	52	-27%	-17%
6	74	-12%	11%
7	80	3%	12%
8	63	13%	18%
9	73	20%	10%
10	70	15%	-7%
11	66	7%	-18%
12	72	-7%	-17%
13	73	-15%	3%
14	60	-12%	21%
15	52	16%	34%
16	59	16%	19%



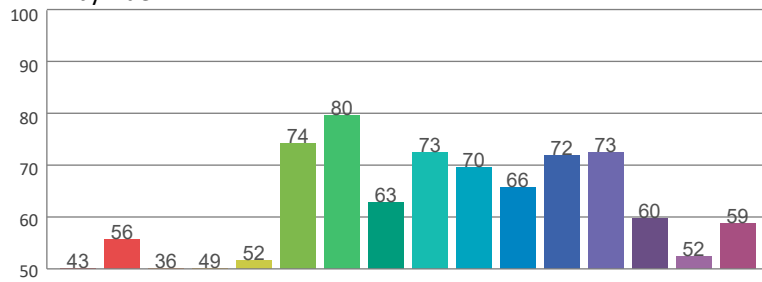
Color Vector Graphic



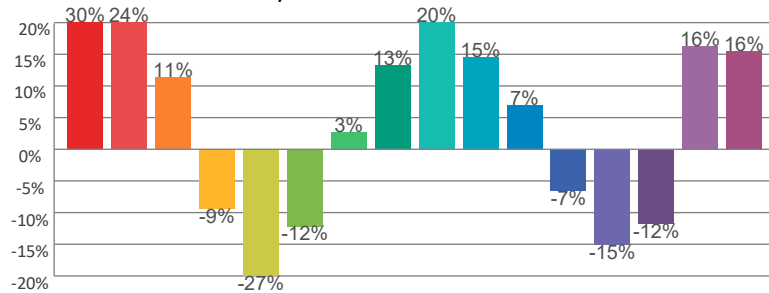
Color Distortion Graphic



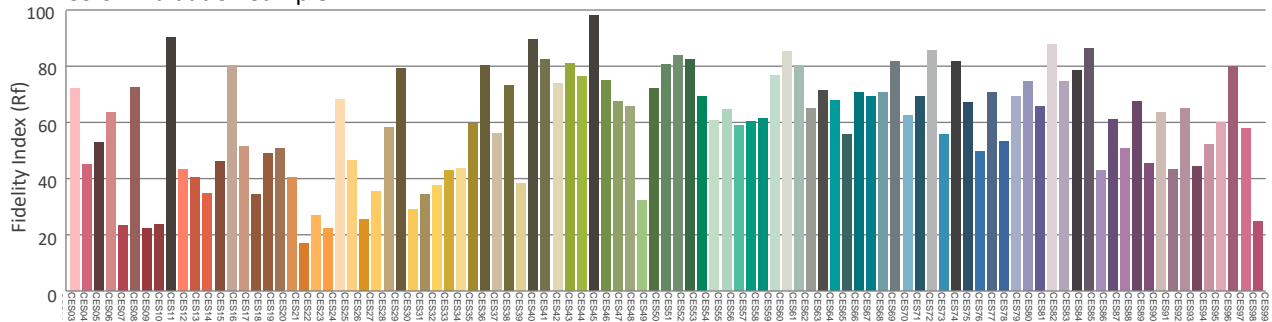
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Red Only

## Report Summary

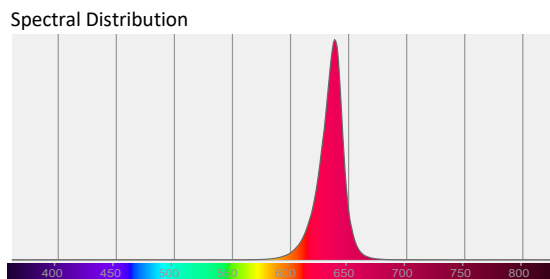
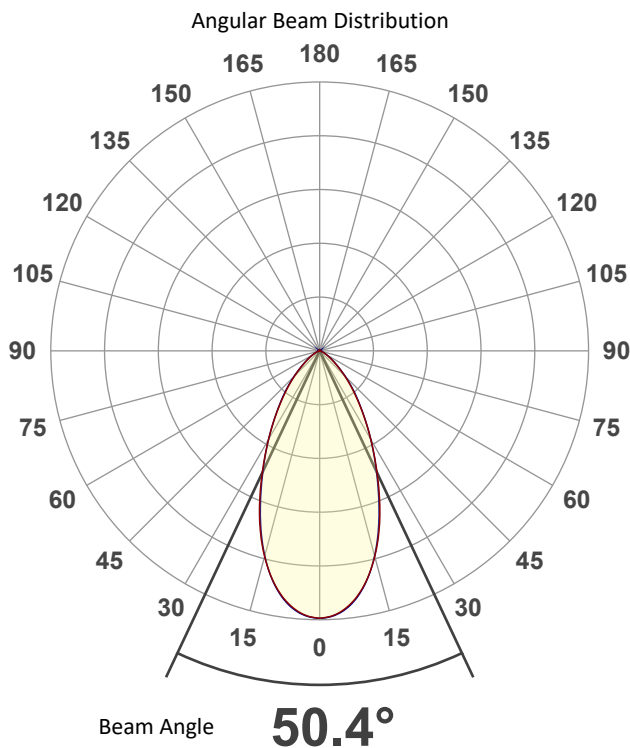
### Measurements

Fixture Output: 248 lm  
Fixture Peak: 276 cd  
Fixture Efficacy: 13 lm/W  
Intensity @ 5m: 11 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 50.4°  
Field Angle (10%): 96.5°  
Cutoff Angle (3%): 124.2°  
Conditions  
AC Supply: 118 V, 60.1 Hz  
Power: 21.85 W  
Current: 0.184 A  
Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.701  
Y: 0.298



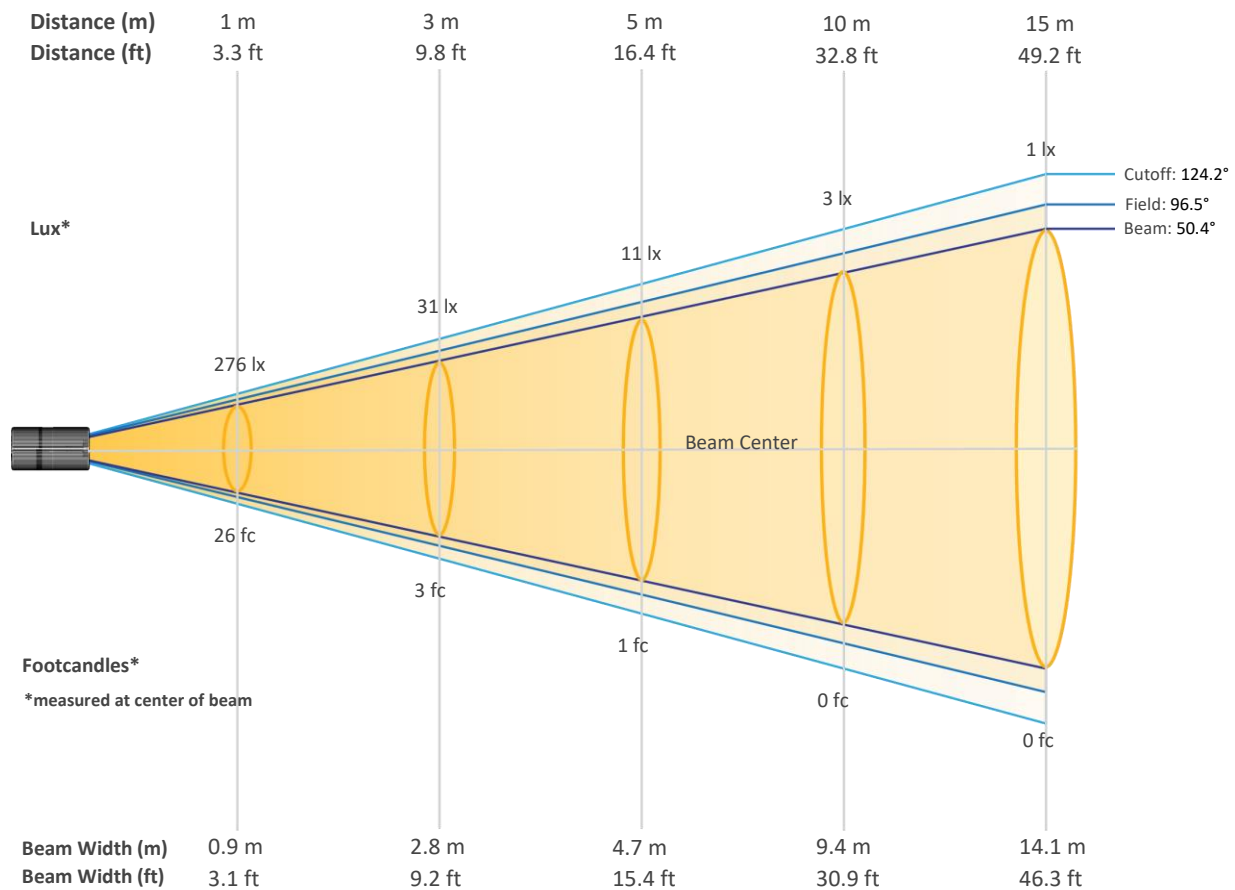
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	276	69	31	17	11	8	6	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	26	6	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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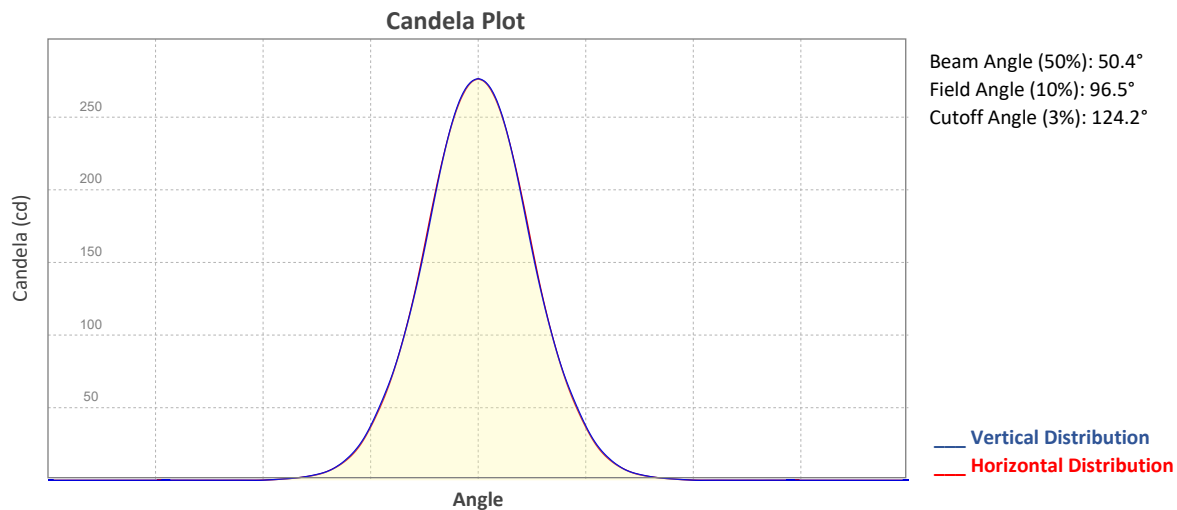
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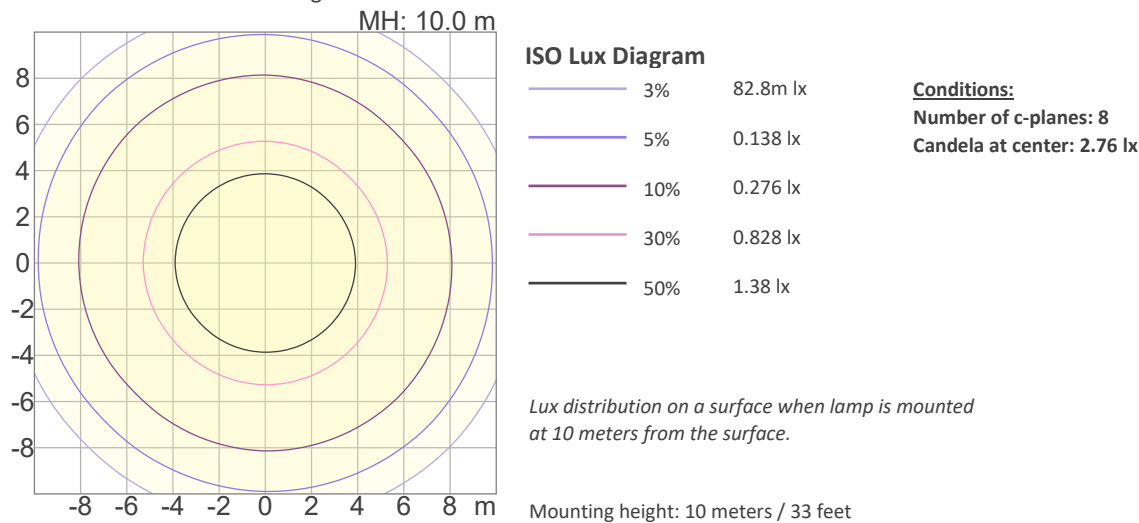
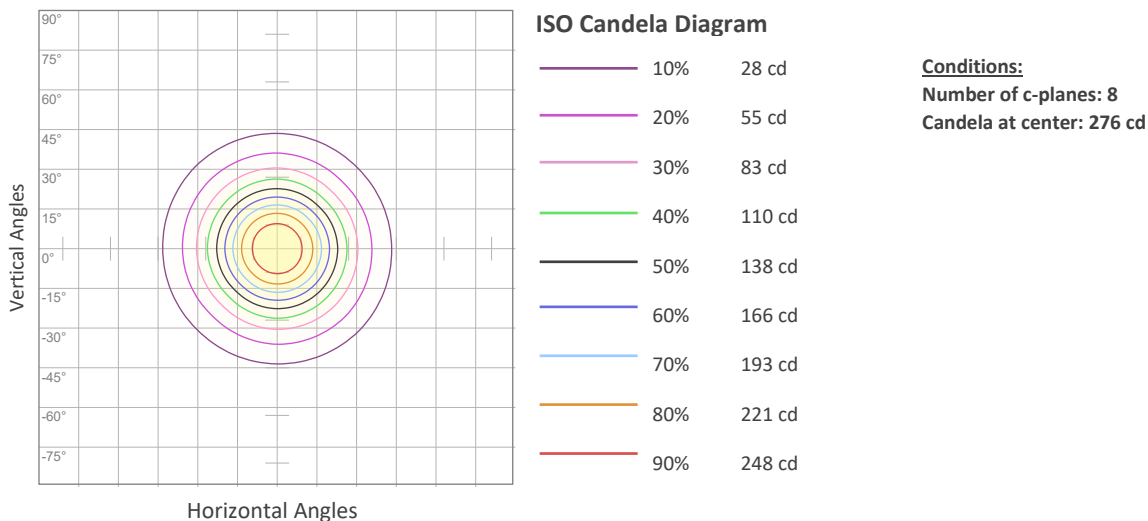
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Red Only



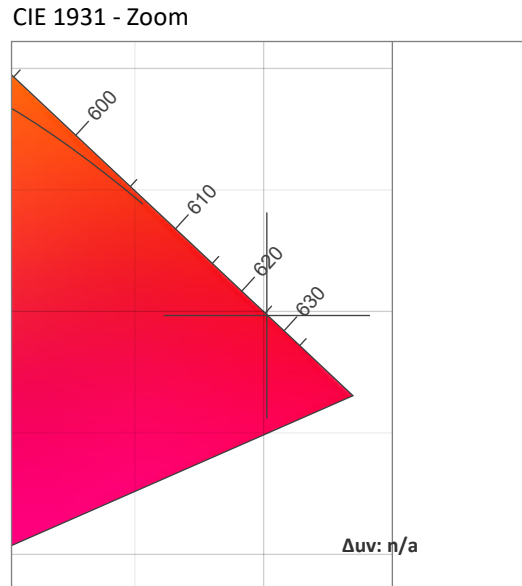
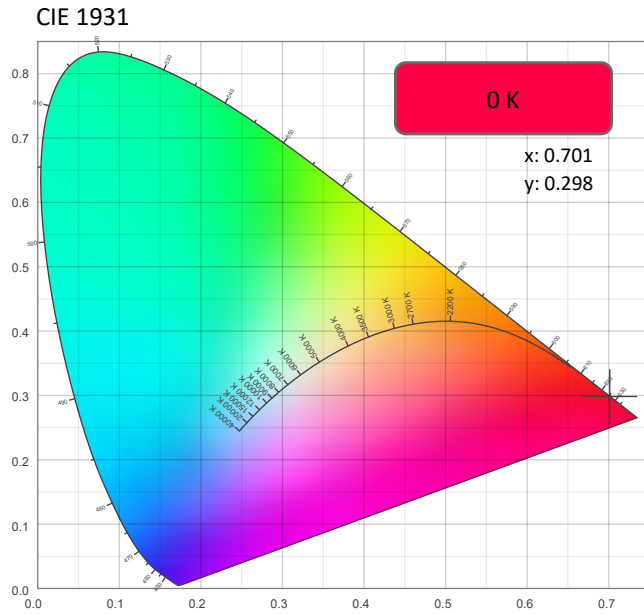
## ISO Diagrams



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.701	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.542

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

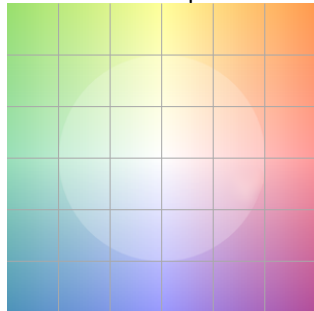
Logic AR111 Downlight M: Medium Filter Lens - Red Only

## TM-30 Details

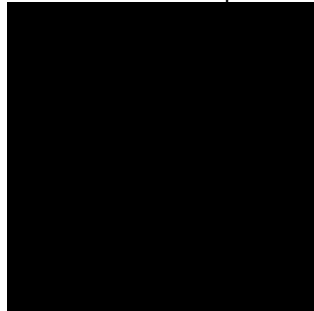
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

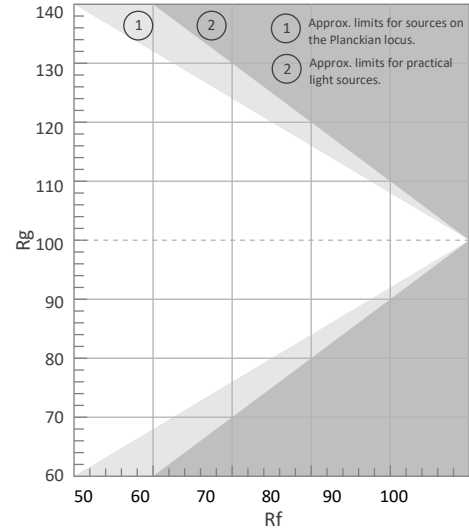
Color Vector Graphic



Color Distortion Graphic



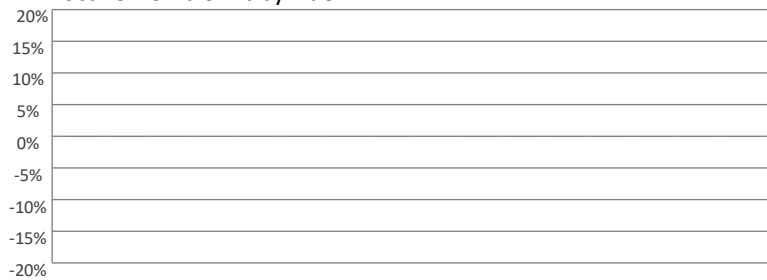
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



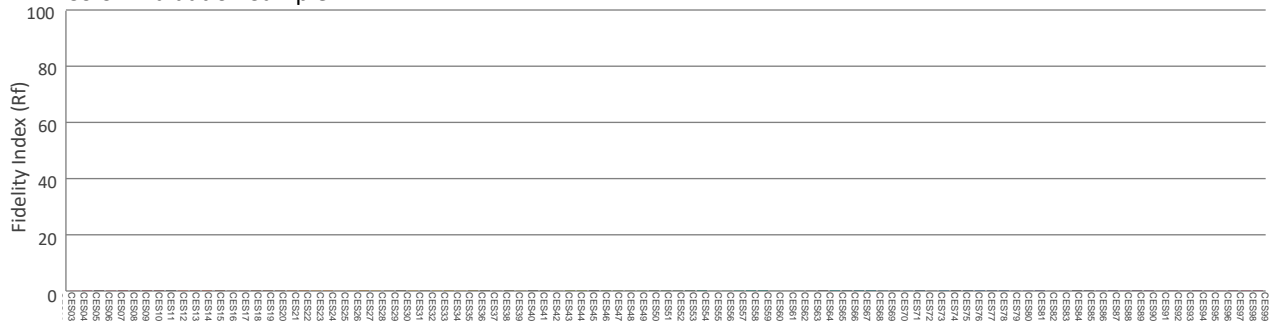
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Green Only

## Report Summary

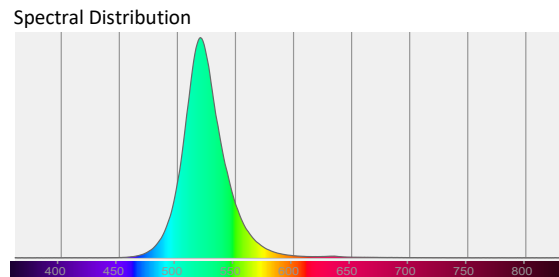
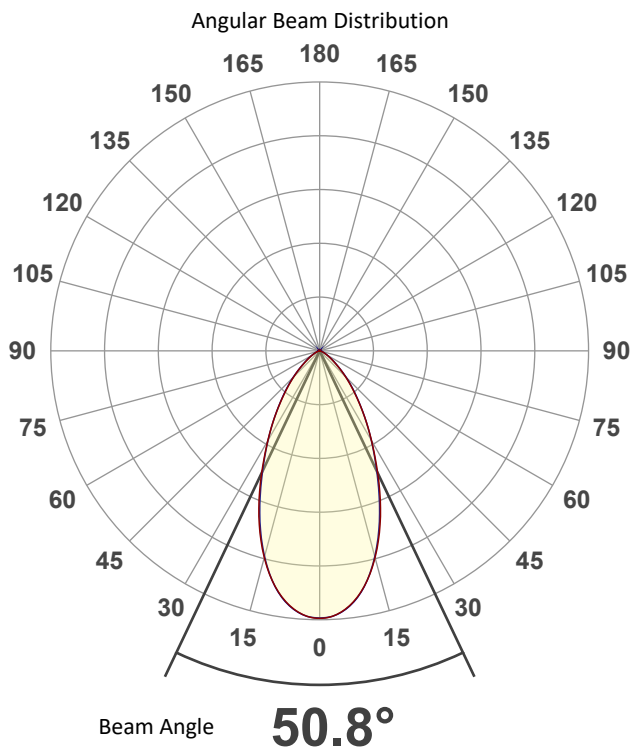
### Measurements

Fixture Output: 513 lm  
Fixture Peak: 563 cd  
Fixture Efficacy: 24 lm/W  
Intensity @ 5m: 23 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 50.8°  
Field Angle (10%): 97.2°  
Cutoff Angle (3%): 125.4°  
Conditions  
AC Supply: 118 V, 60 Hz  
Power: 23.6 W  
Current: 0.199 A  
Power Factor: 0.9



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.167  
Y: 0.715



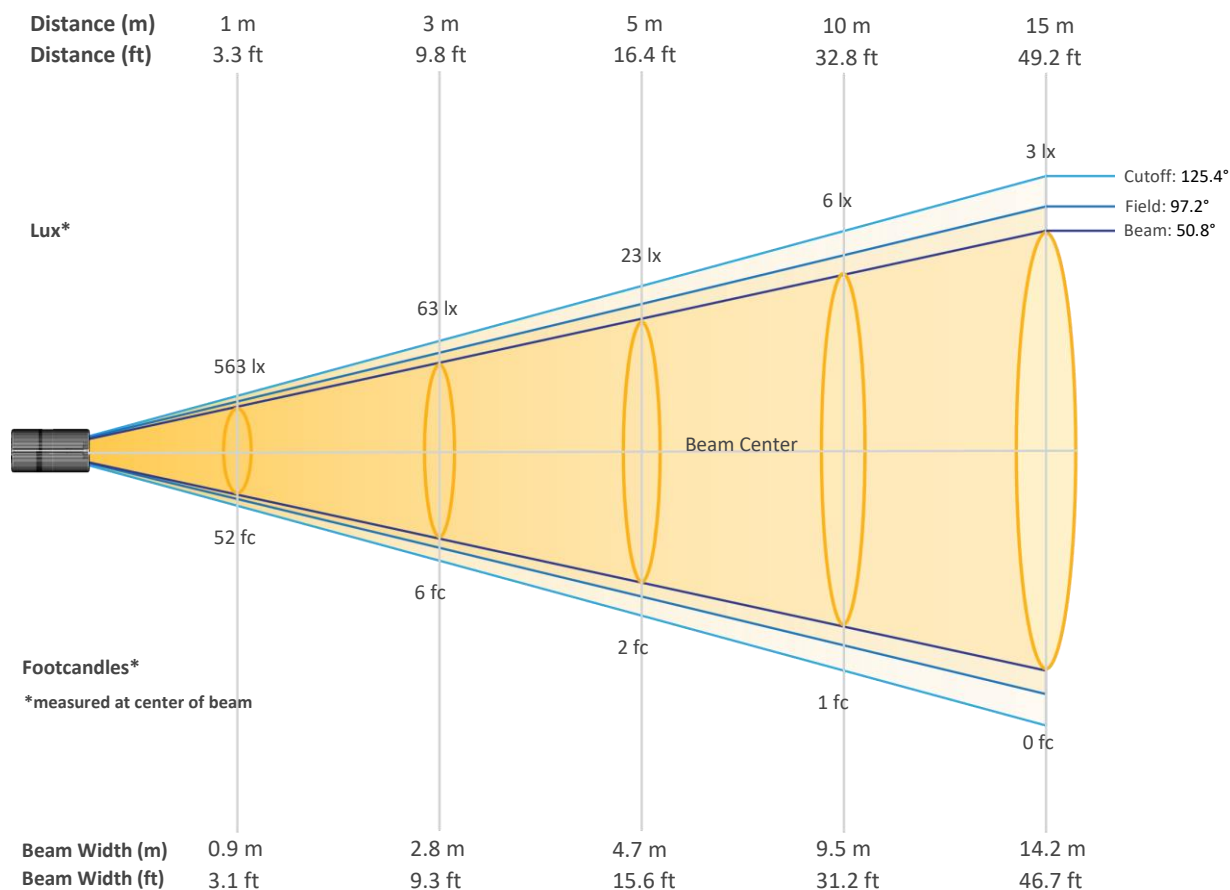
Light Quality  
CRI: 0.0

Color Temperature  
0 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	563	141	63	35	23	16	11	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	52	13	6	3	2	1	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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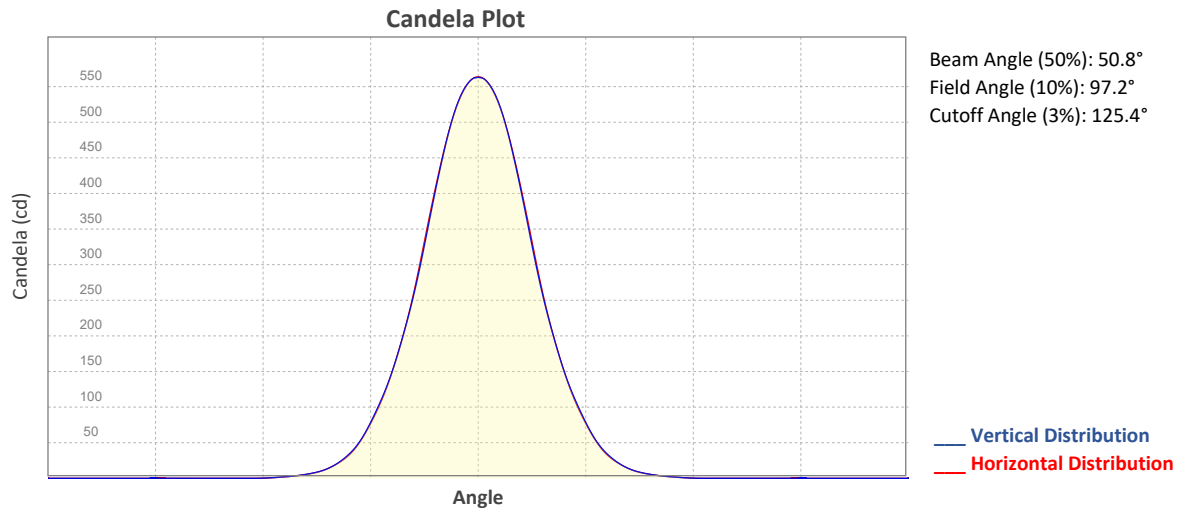
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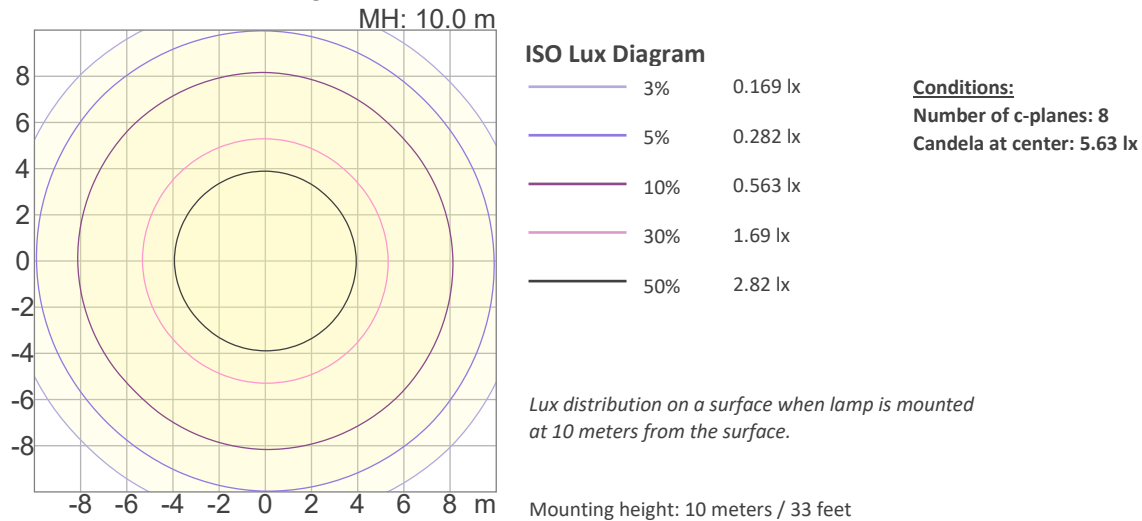
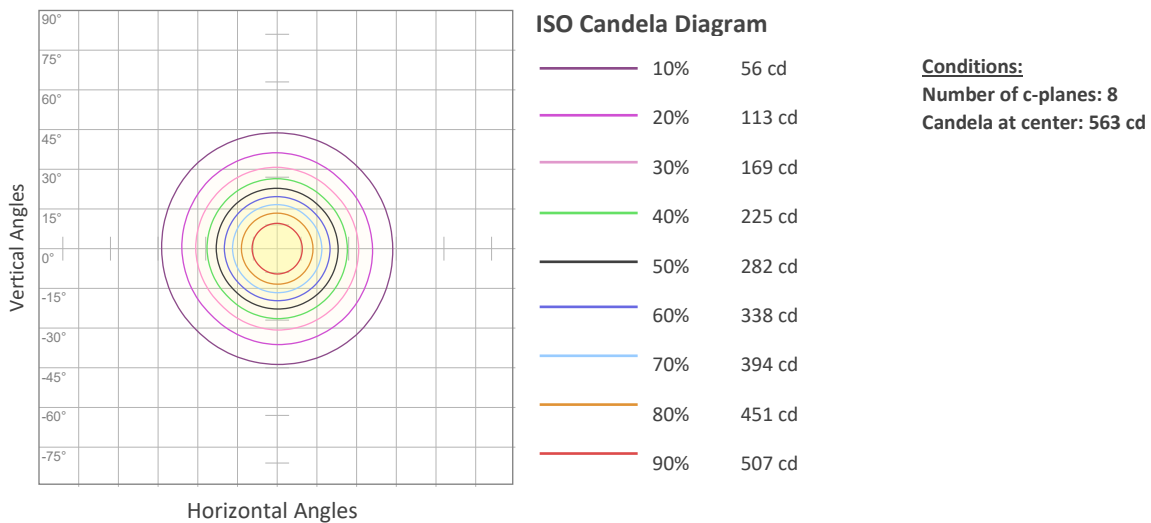
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Green Only



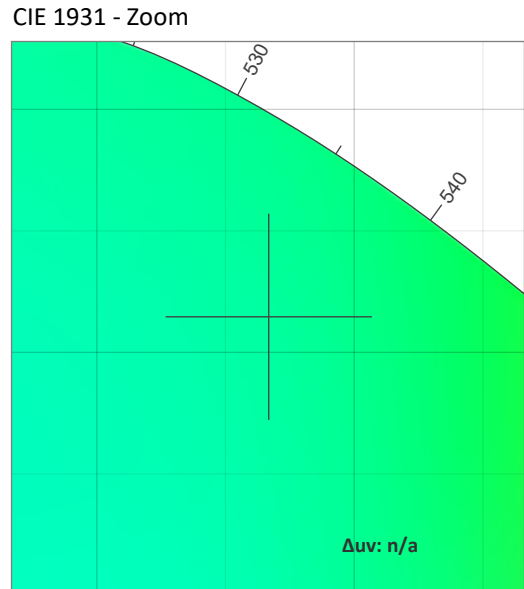
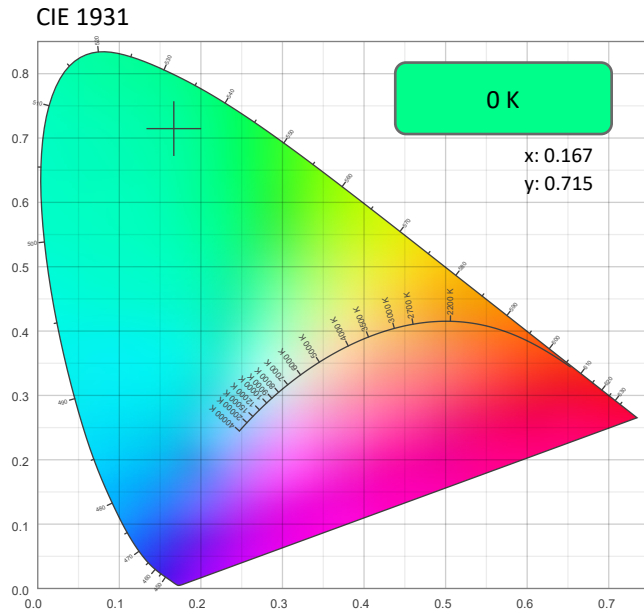
## ISO Diagrams



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.167	0.715

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.715	0.059

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

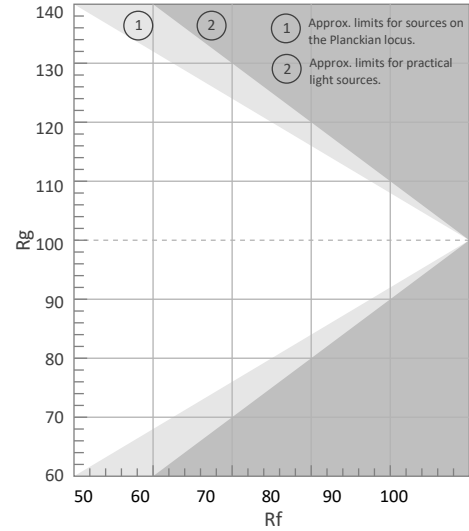
Logic AR111 Downlight M: Medium Filter Lens - Green Only

## TM-30 Details

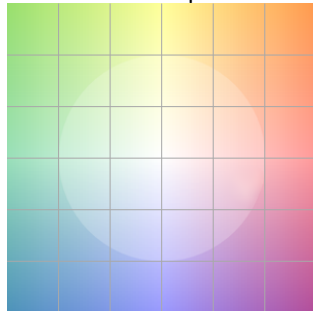
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

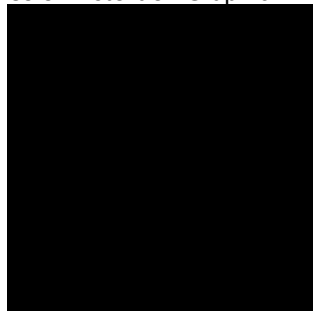
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



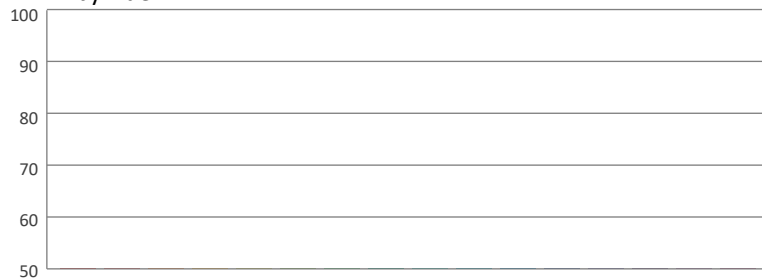
Color Vector Graphic



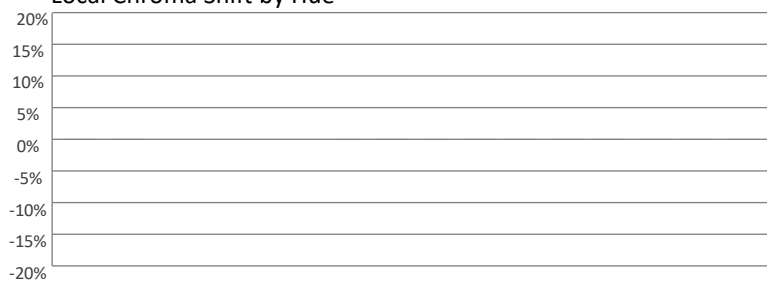
Color Distortion Graphic



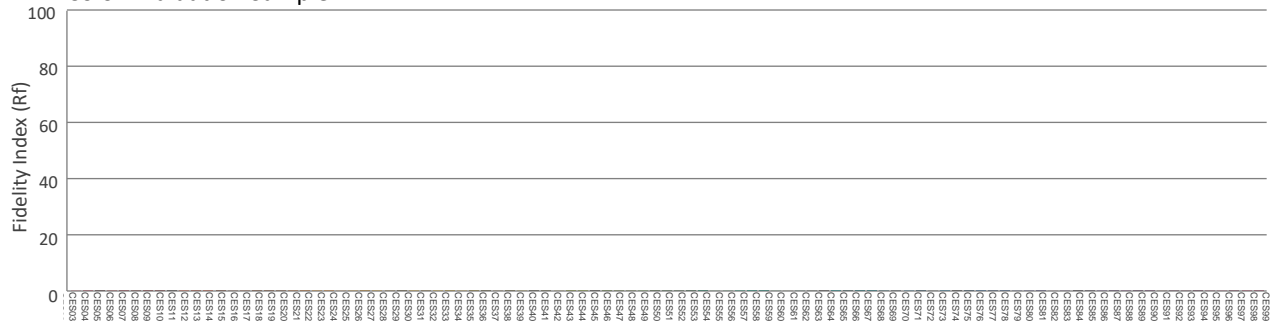
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Blue Only

## Report Summary

### Measurements

Fixture Output: 158 lm

Fixture Peak: 161 cd

Fixture Efficacy: 8 lm/W

Intensity @ 5m: 6 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 53.5°

Field Angle (10%): 100.6°

Cutoff Angle (3%): 128.9°

### Conditions

AC Supply: 118 V, 60 Hz

Power: 23.48 W

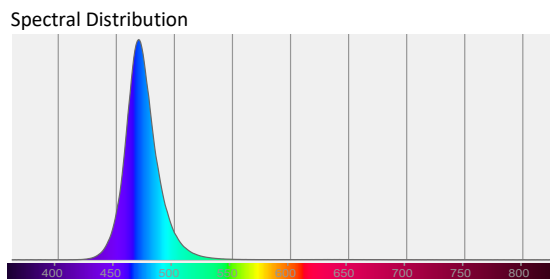
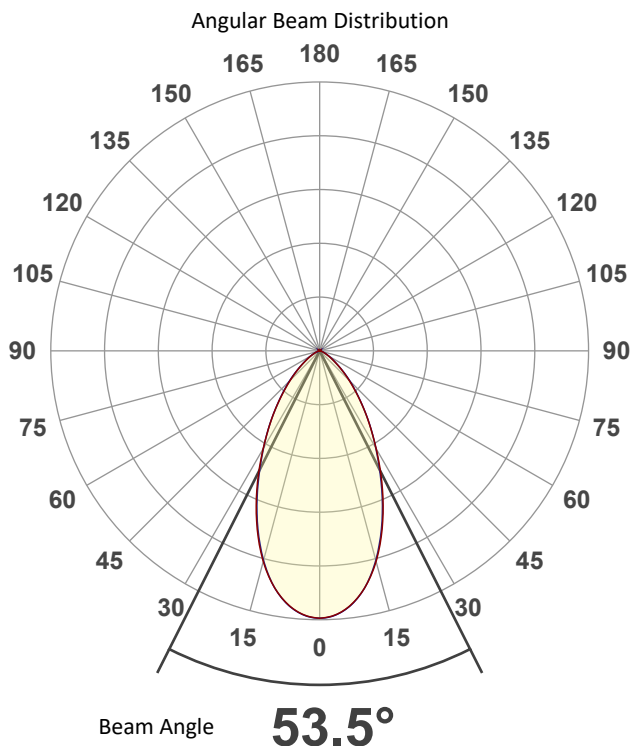
Current: 0.198 A

Power Factor: 0.9



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

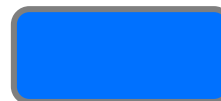
## Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.087

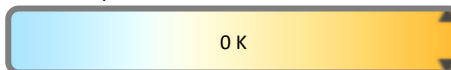


Light Quality

CRI: 0.0

Color Temperature

0 K



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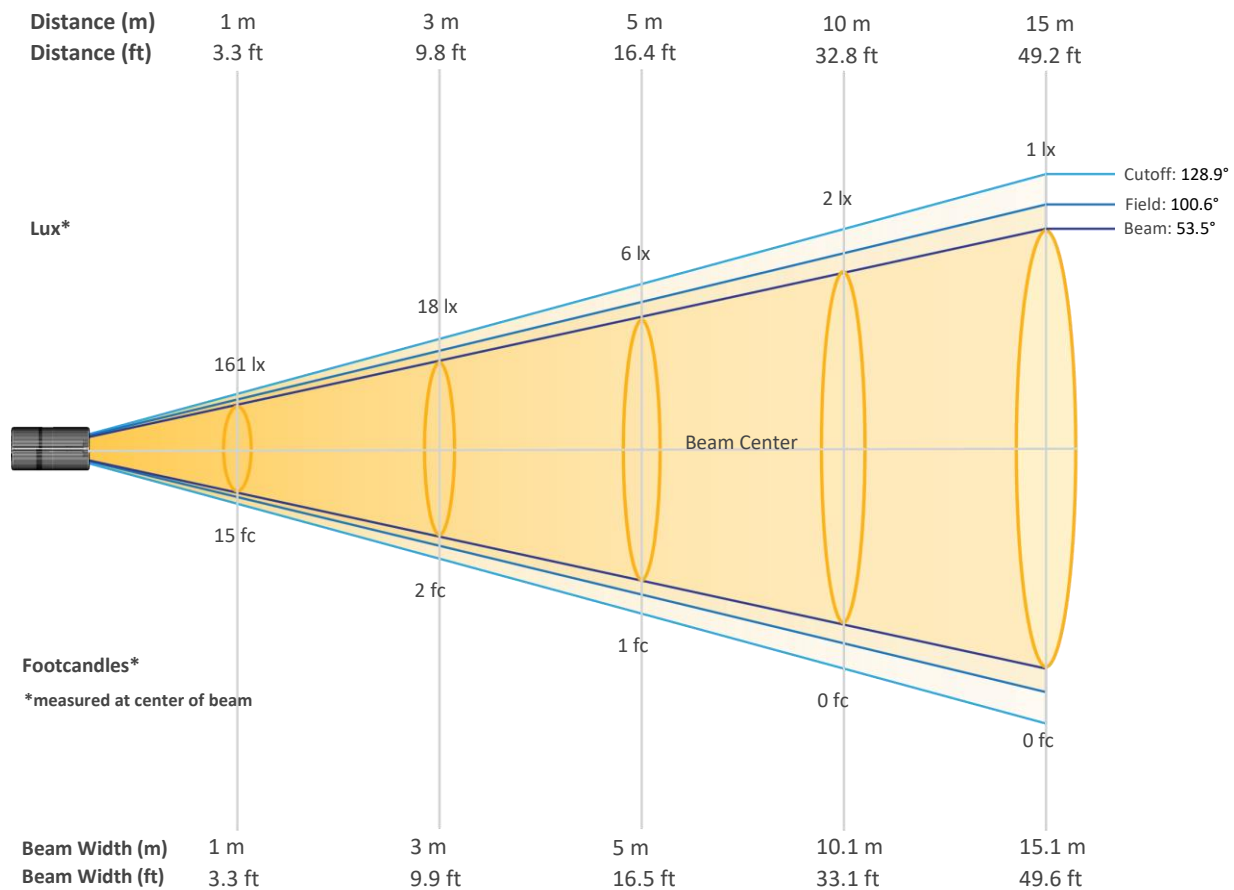
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Blue Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	161	40	18	10	6	4	3	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	15	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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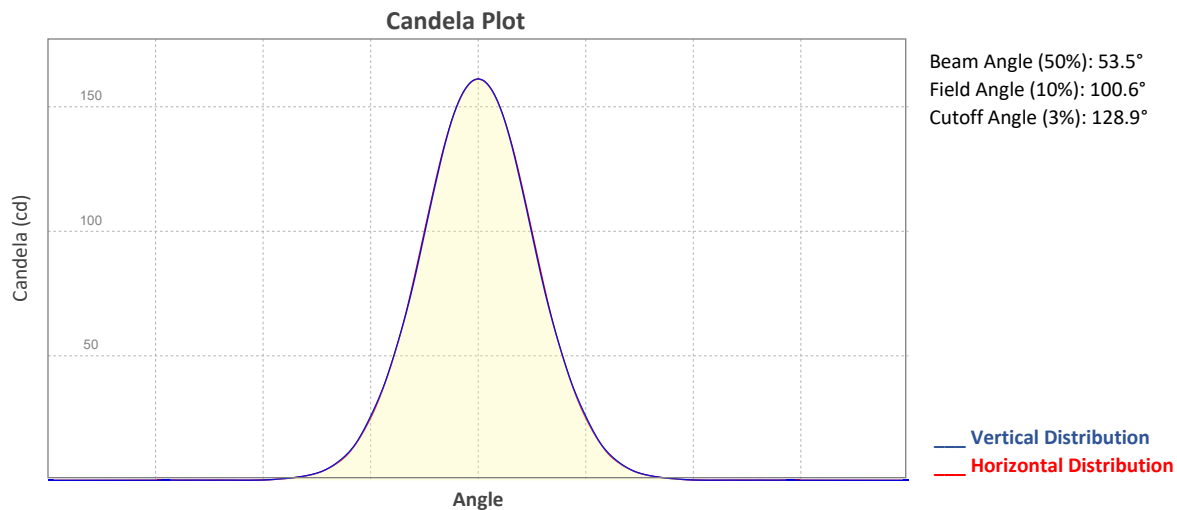
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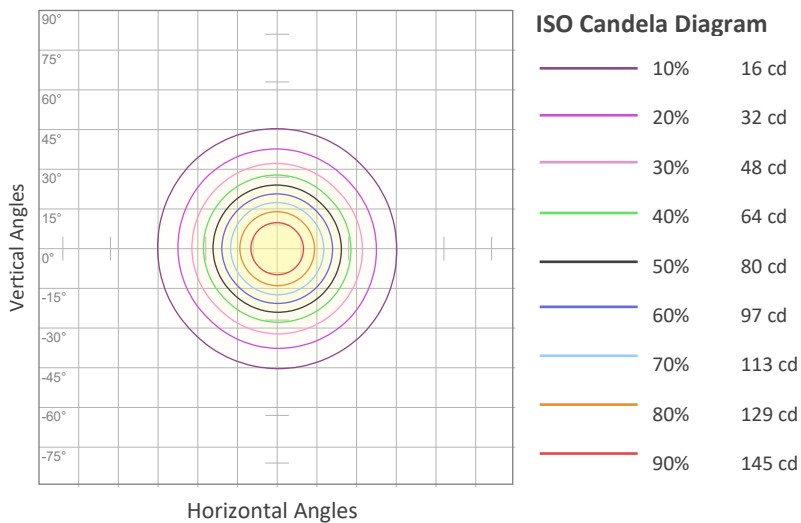


# Photometric & Chromaticity Report

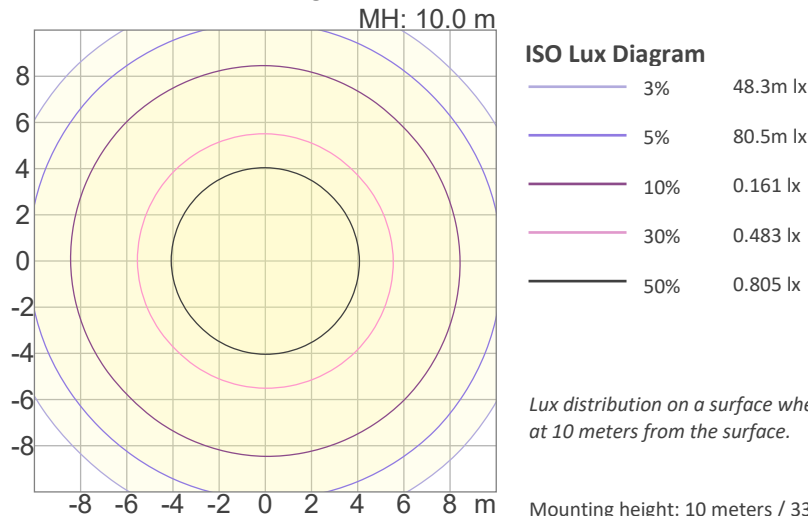
Logic AR111 Downlight M: Medium Filter Lens - Blue Only



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 161 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 1.61 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

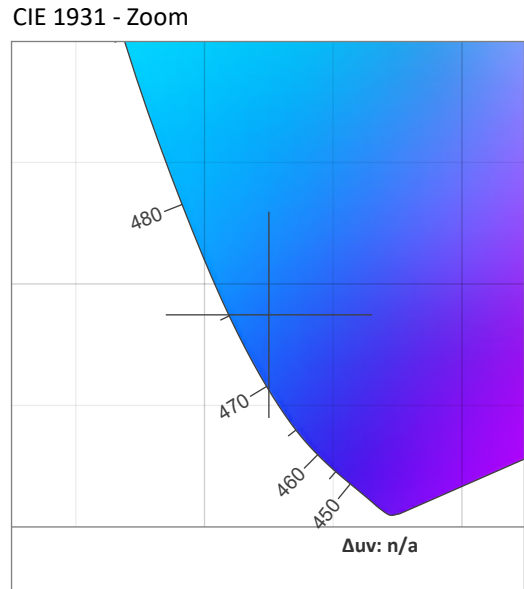
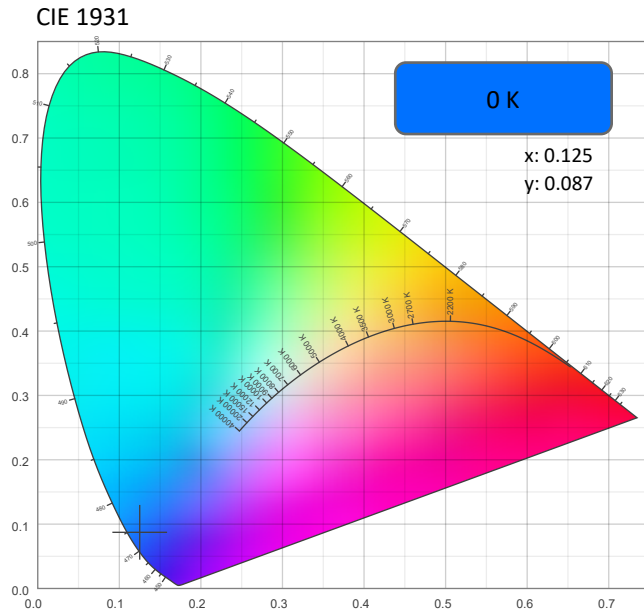
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.087

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.087	0.132

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

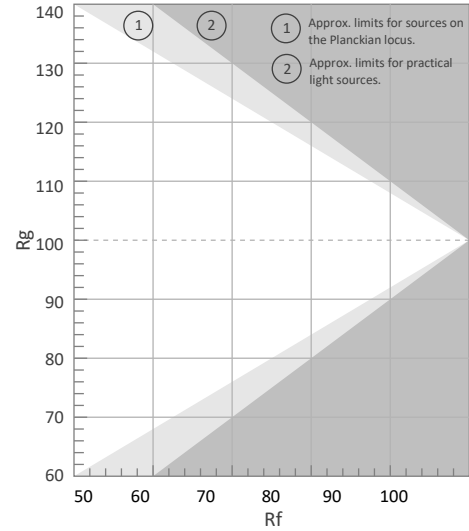
Logic AR111 Downlight M: Medium Filter Lens - Blue Only

## TM-30 Details

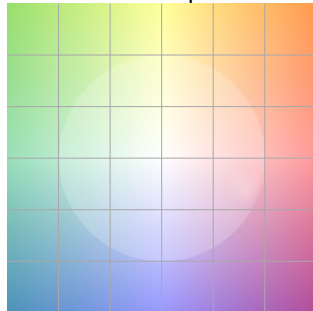
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

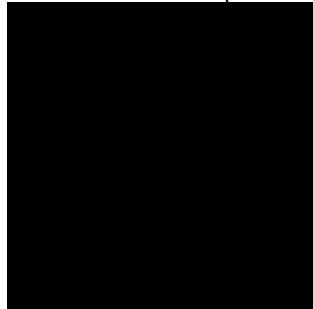
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



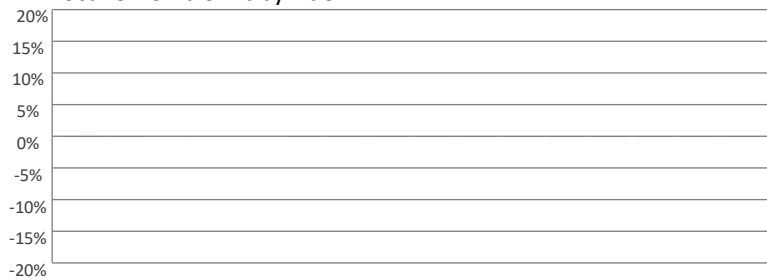
Color Distortion Graphic



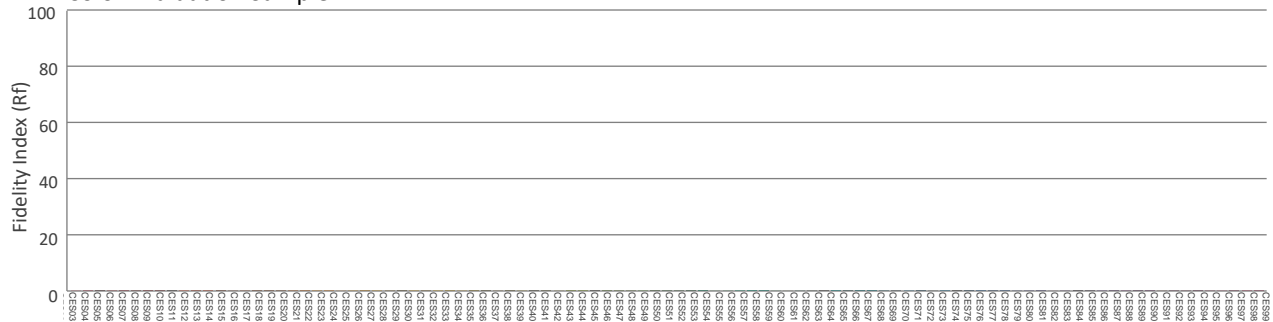
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

## Report Summary

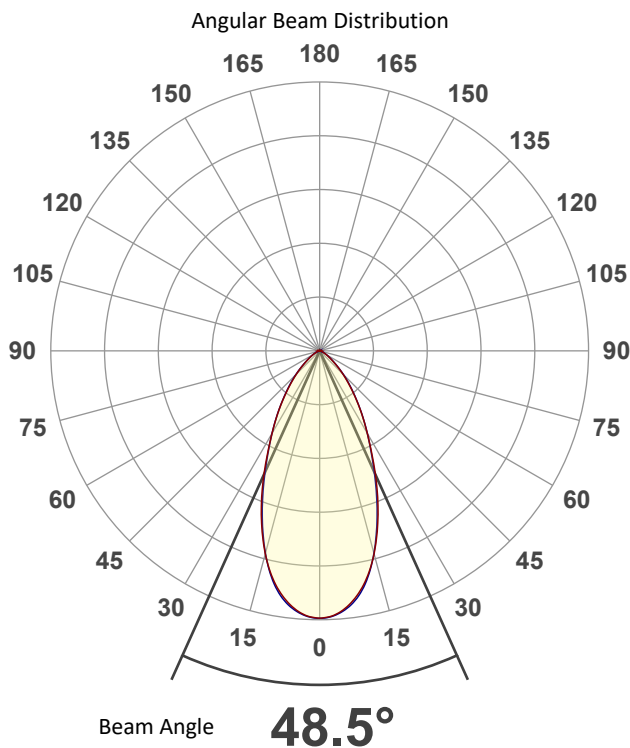
### Measurements

Fixture Output: 364 lm  
Fixture Peak: 424 cd  
Fixture Efficacy: 18 lm/W  
Intensity @ 5m: 17 lux  
Color Temperature: 3004 K  
CRI: 93.1      CRI R9 Value: 71.0  
CQS: 91.1  
TLCI: 92  
TM-30 Rf: 91.9  
TM-30 Rg: 101.8  
Beam Angle (50%): 48.5°  
Field Angle (10%): 95°  
Cutoff Angle (3%): 123.4°  
Conditions  
AC Supply: 118 V, 60 Hz  
Power: 22.45 W  
Current: 0.190 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.438  
Y: 0.406

Light Quality  
CRI: 93.1

Color Temperature  
3004 K

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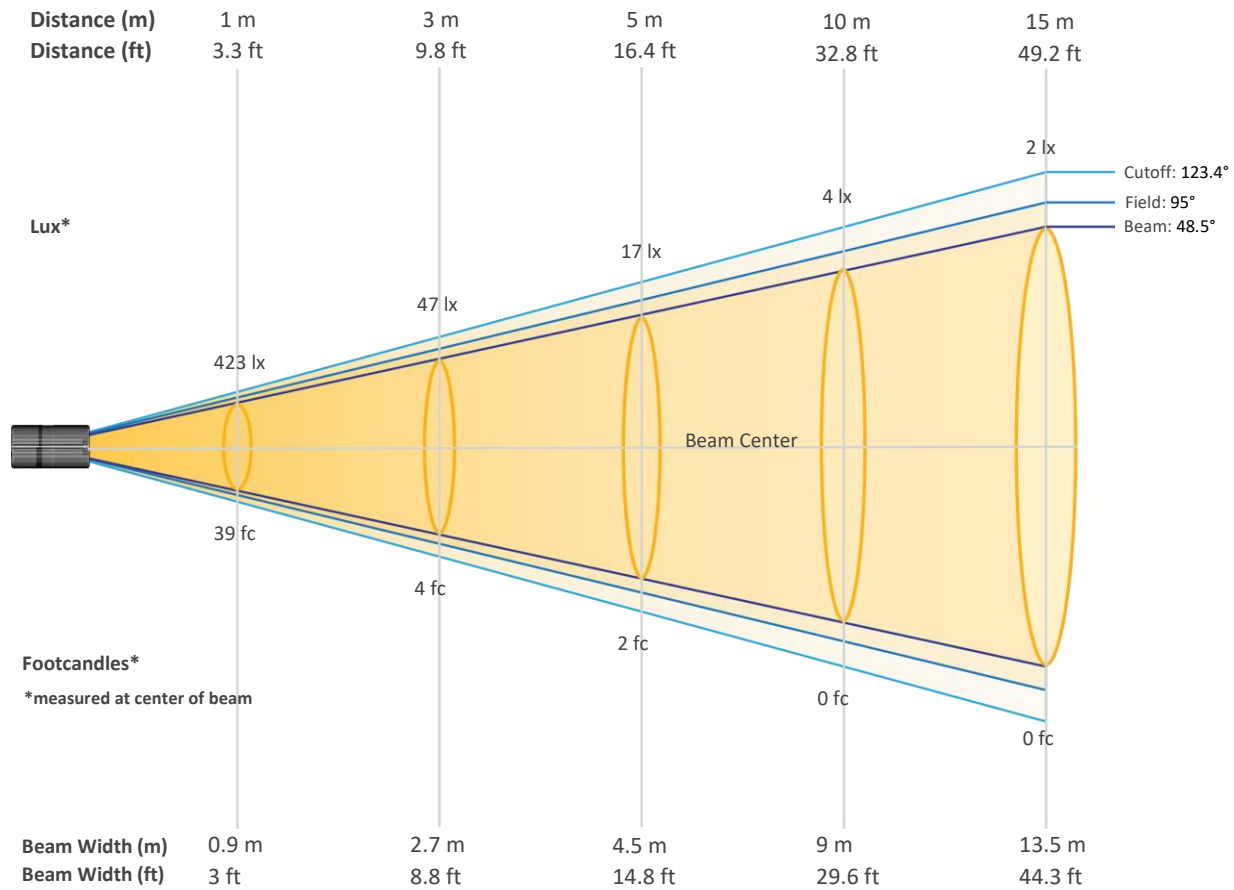
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	423	106	47	26	17	12	9	7	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	3	2	2	2	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	39	10	4	2	2	1	1	1	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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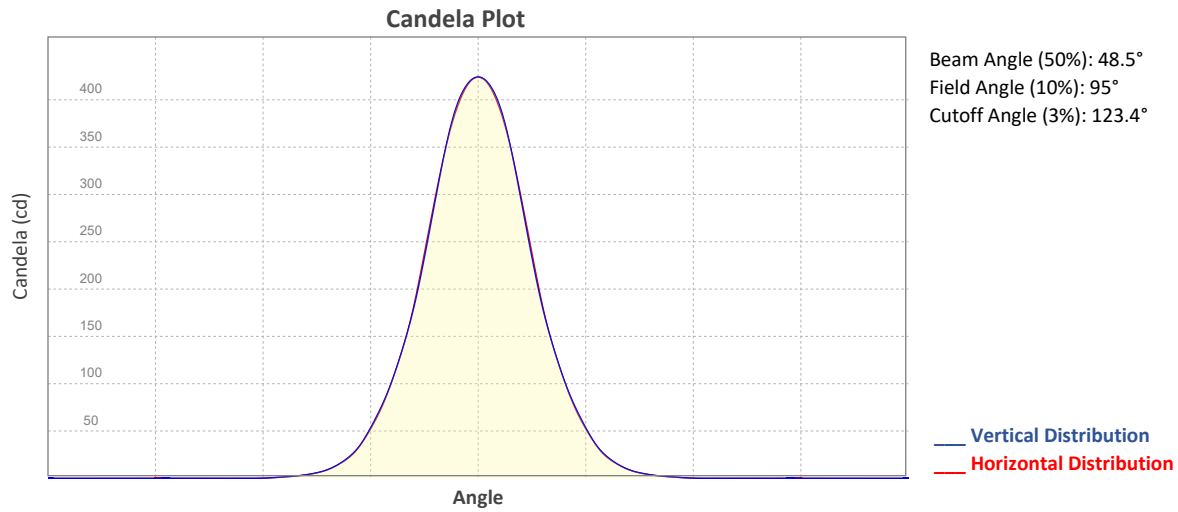
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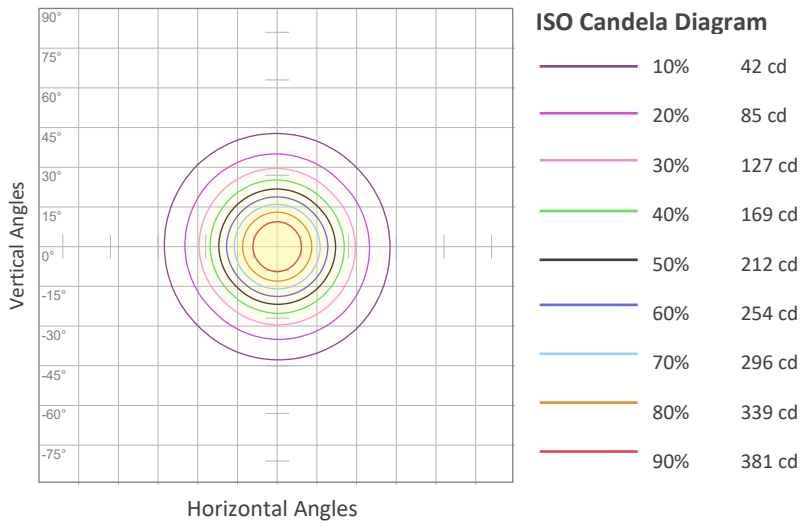
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# Photometric & Chromaticity Report

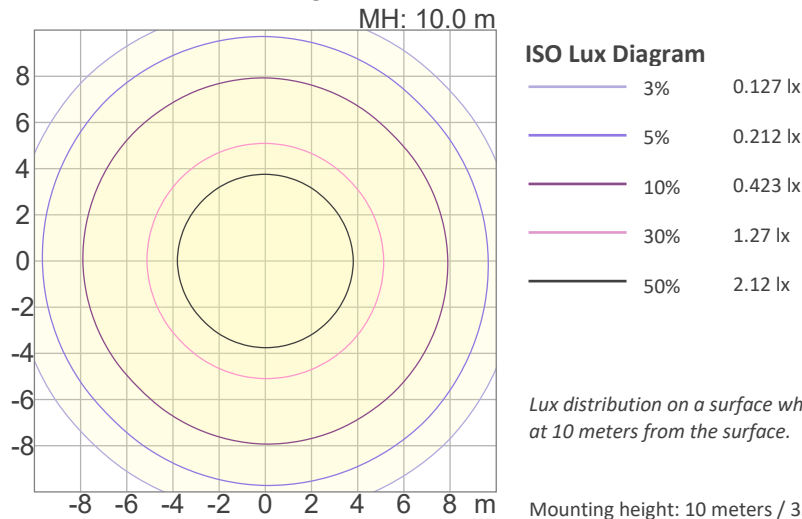
Logic AR111 Downlight M: Medium Filter Lens - Warm White Only



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 423 cd



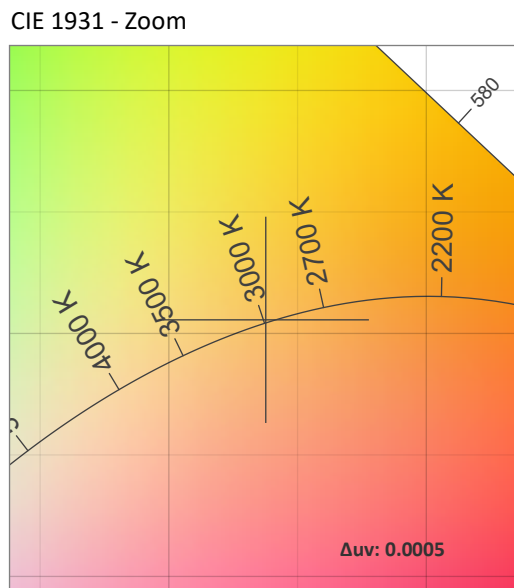
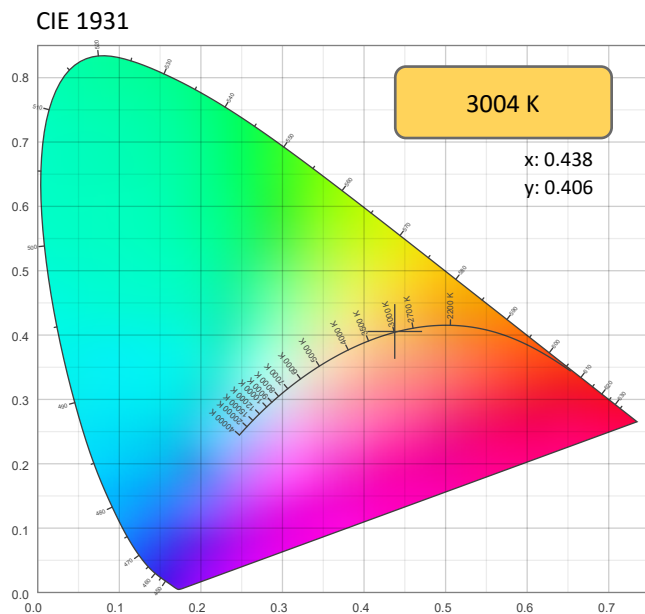
**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 4.23 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

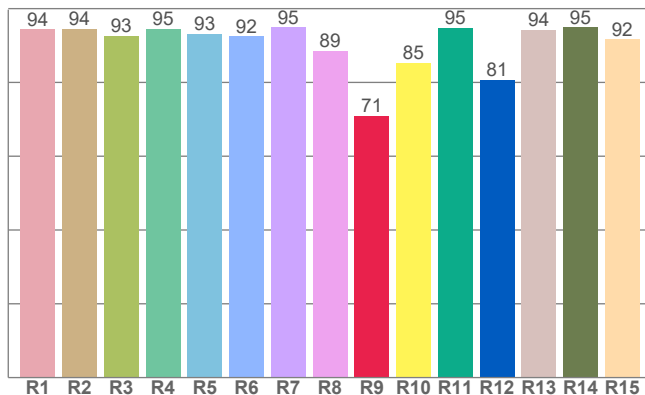
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

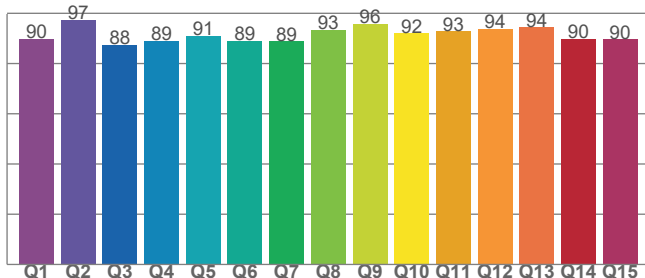
## Chromaticity



### CRI: 93.1 (R1-R8)



### CQS: 91.1



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3004 K	0.438	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0005	0.406	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	71.0	91.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	91.9	101.8

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# Photometric & Chromaticity Report

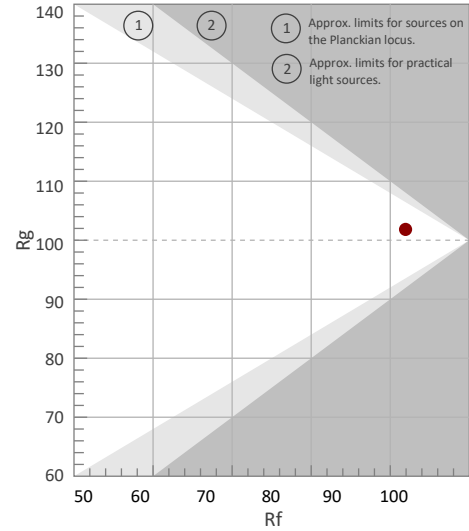
Logic AR111 Downlight M: Medium Filter Lens - Warm White Only

## TM-30 Details

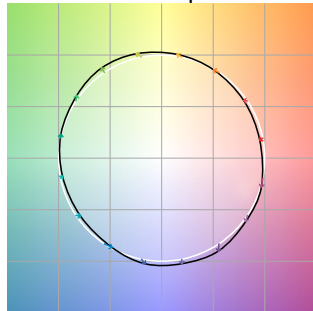
**Rf 91.9**  
Fidelity Index  
(Rg)

**Rg 101.8**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	91	2%	5%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-4%
9	95	-2%	-2%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	91	2%	-6%
16	89	0%	-8%



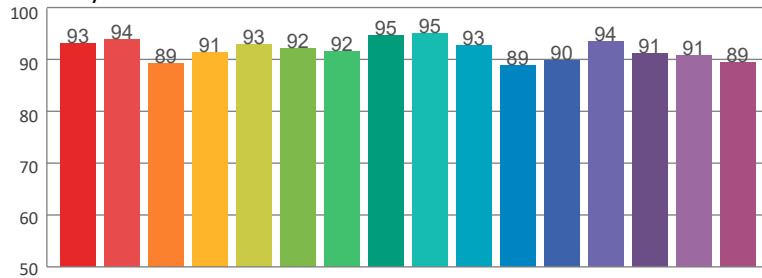
Color Vector Graphic



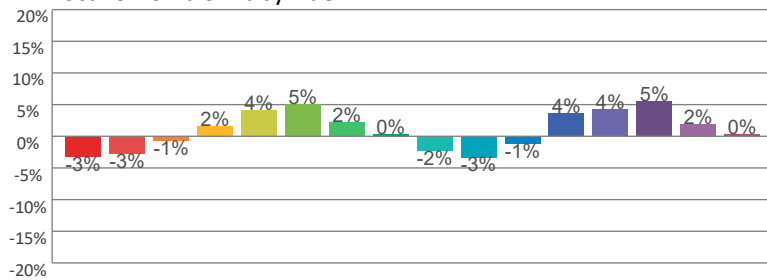
Color Distortion Graphic



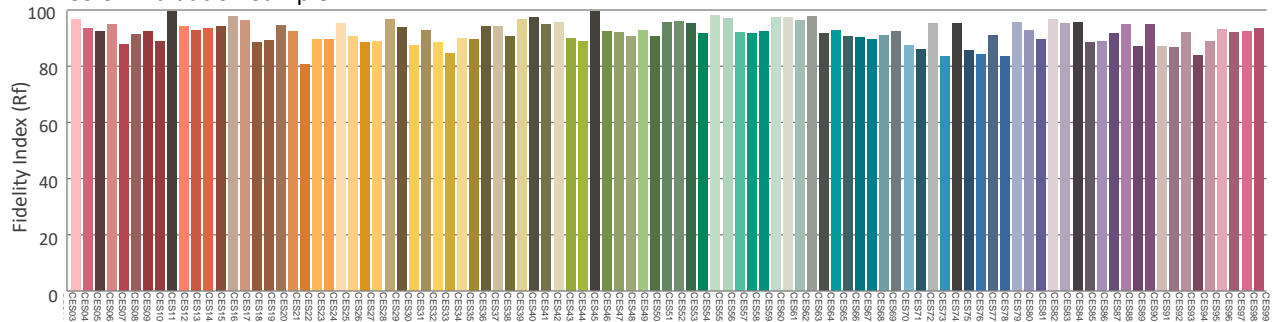
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

## Report Summary

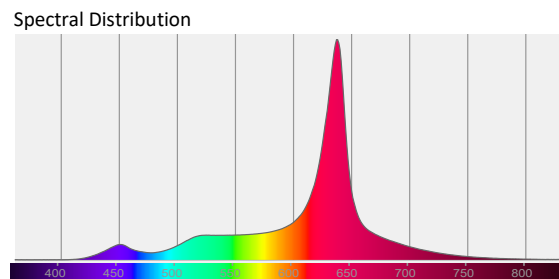
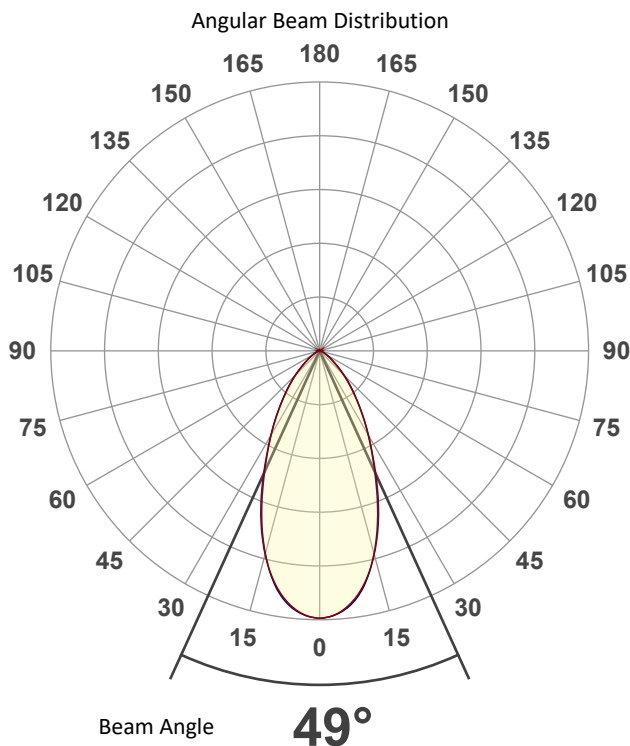
### Measurements

Fixture Output: 521 lm  
Fixture Peak: 600 cd  
Fixture Efficacy: 22 lm/W  
Intensity @ 5m: 24 lux  
Color Temperature: 1816 K  
CRI: 69.0      CRI R9 Value: 32.3  
CQS: 63.4  
TLCI: 46  
TM-30 Rf: 72.5  
TM-30 Rg: 125.9  
Beam Angle (50%): 49°  
Field Angle (10%): 95.4°  
Cutoff Angle (3%): 123.6°  
Conditions  
AC Supply: 118 V, 60 Hz  
Power: 26.43 W  
Current: 0.224 A  
Power Factor: 0.91



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

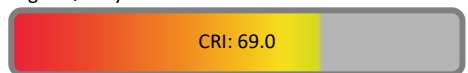
X: 0.521

Y: 0.376



Light Quality

CRI: 69.0



Color Temperature

1816 K



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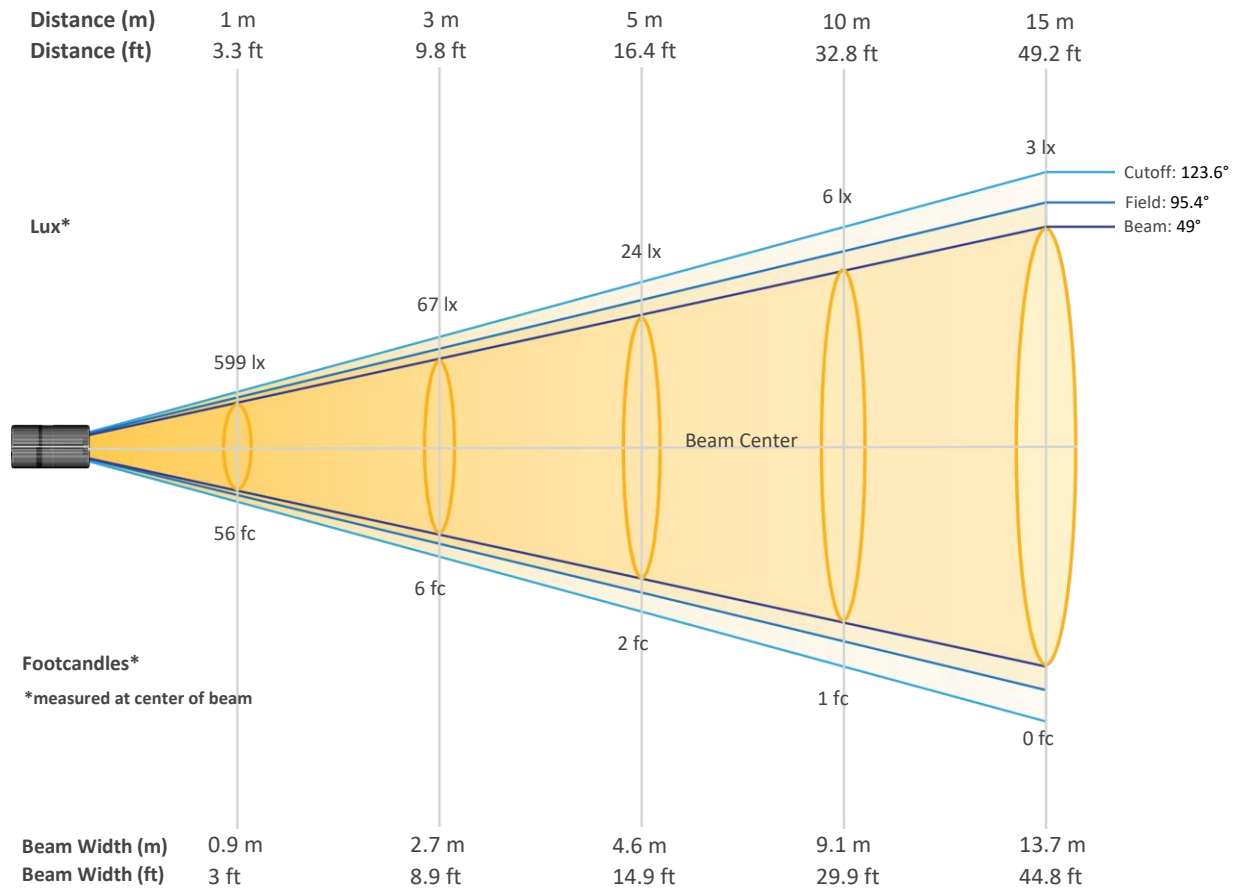
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	599	150	67	37	24	17	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	56	14	6	3	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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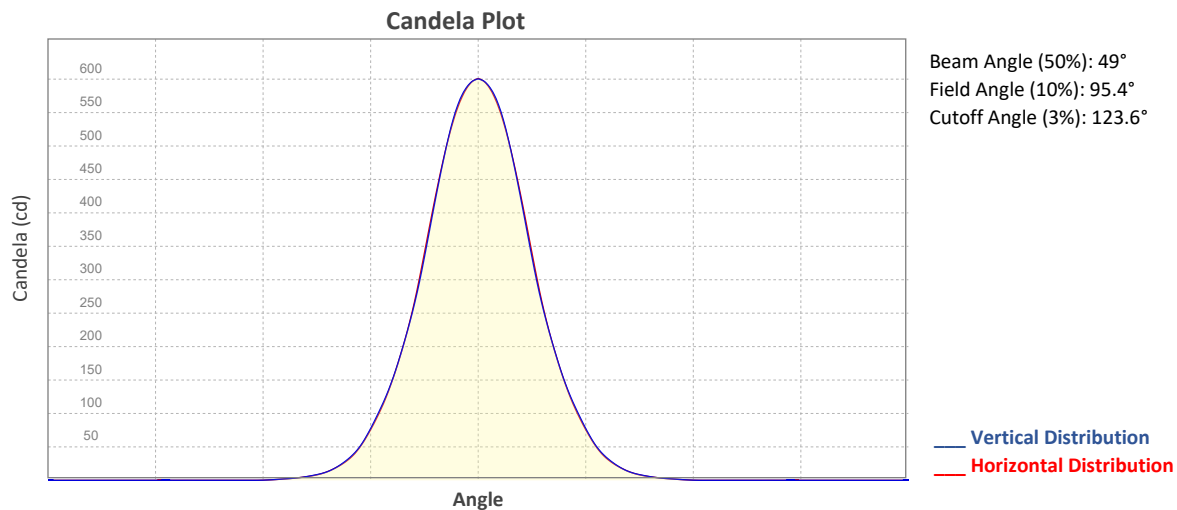
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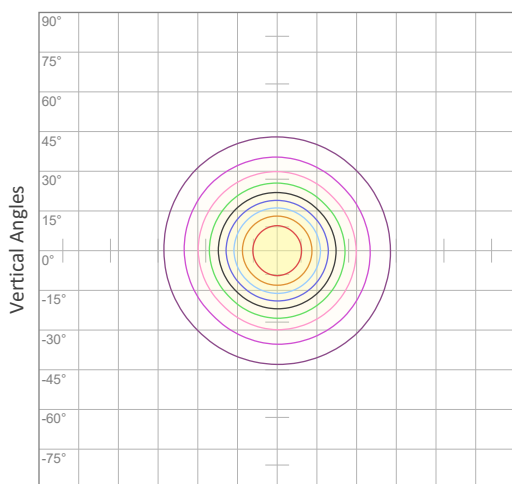
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K



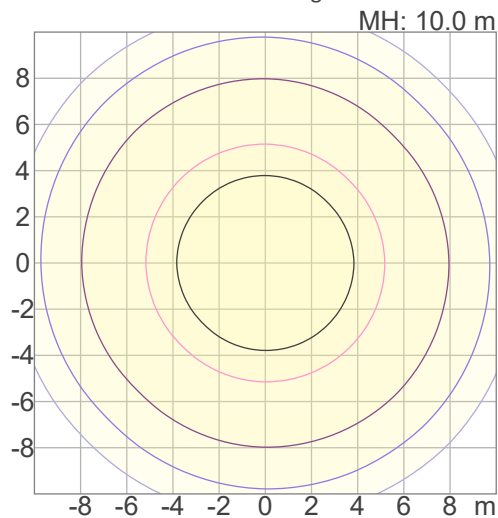
## ISO Diagrams



ISO Candela Diagram

10%	60 cd
20%	120 cd
30%	180 cd
40%	240 cd
50%	300 cd
60%	360 cd
70%	420 cd
80%	479 cd
90%	539 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 599 cd



ISO Lux Diagram

3%	0.180 lx
5%	0.300 lx
10%	0.599 lx
30%	1.80 lx
50%	3.00 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.99 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

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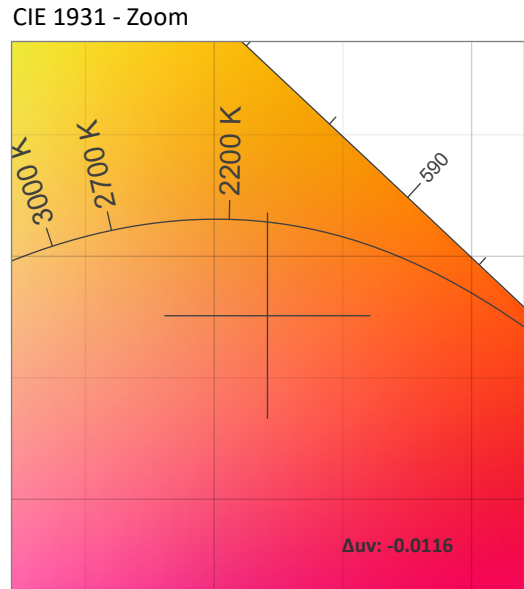
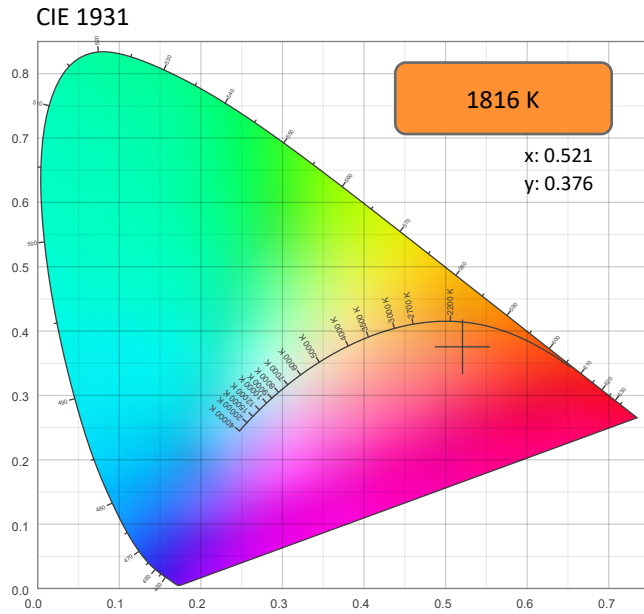
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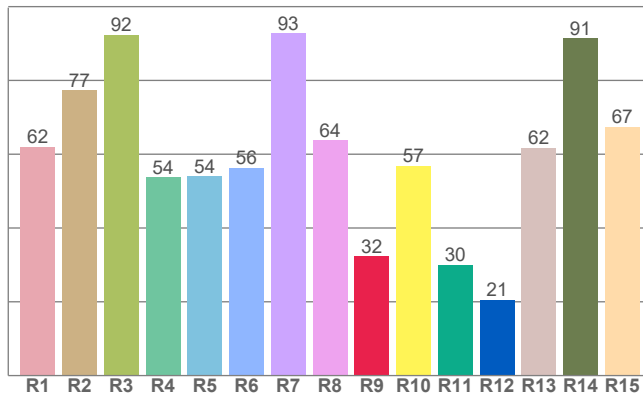
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 1800K

## Chromaticity



CRI: 69.0 (R1-R8)

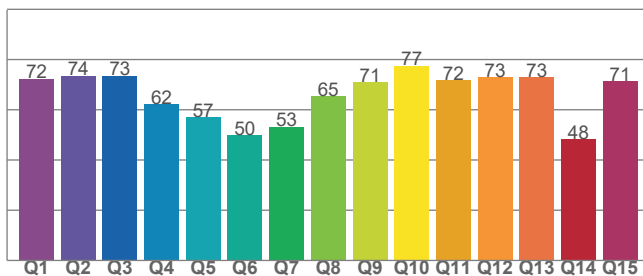


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
1816 K	0.521	0.376

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0116	0.376	0.322

CQS: 63.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.0	32.3	63.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
46	72.5	125.9

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# Photometric & Chromaticity Report

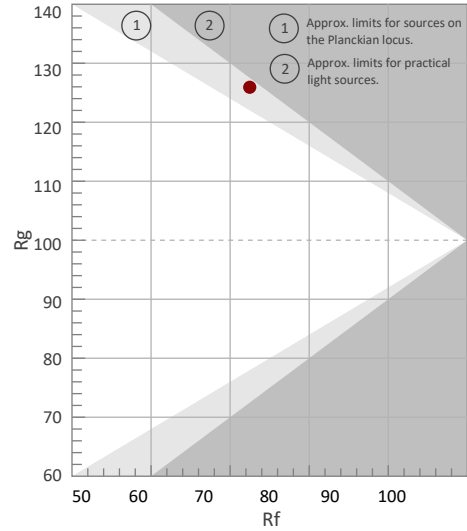
Logic AR111 Downlight M: Medium Filter Lens - 1800K

## TM-30 Details

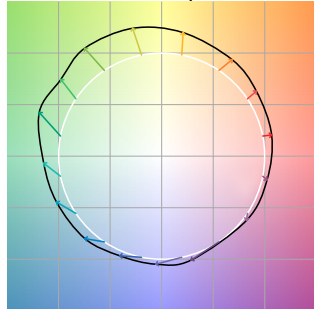
**Rf 72.5**  
Fidelity Index (Rg)

**Rg 125.9**  
Gammut Index (Rg)

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	77	9%	-1%
2	74	11%	1%
3	69	16%	-5%
4	73	22%	3%
5	79	27%	3%
6	59	28%	4%
7	64	23%	-8%
8	60	25%	-18%
9	63	14%	-16%
10	65	9%	-20%
11	70	8%	-17%
12	68	3%	-21%
13	72	2%	-26%
14	67	0%	-32%
15	86	3%	-6%
16	88	5%	-3%



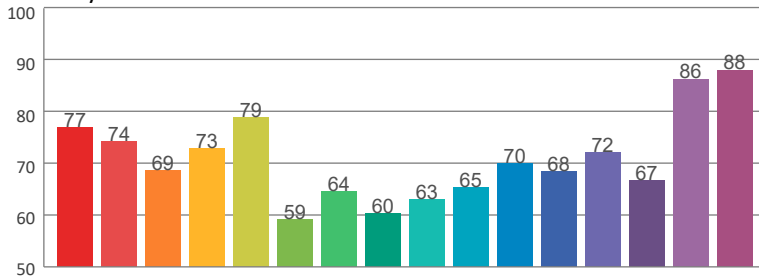
Color Vector Graphic



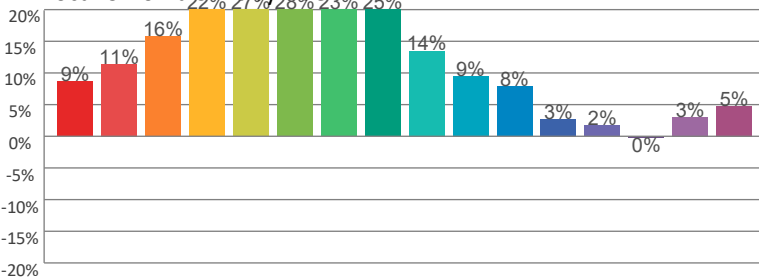
Color Distortion Graphic



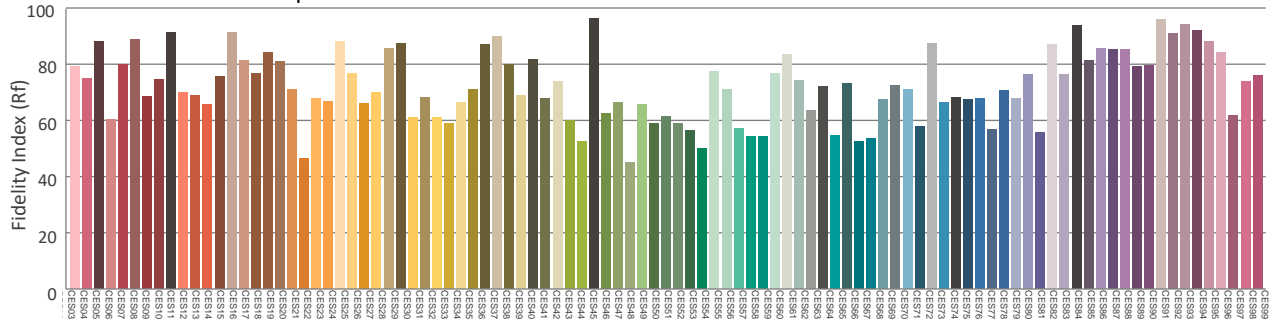
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

## Report Summary

### Measurements

Fixture Output: 520 lm  
Fixture Peak: 598 cd  
Fixture Efficacy: 22 lm/W  
Intensity @ 5m: 24 lux  
Color Temperature: 2241 K  
CRI: 68.0      CRI R9 Value: 12.0  
CQS: 78.3  
TLCI: 56  
TM-30 Rf: 79.1  
TM-30 Rg: 117.0  
Beam Angle (50%): 49°  
Field Angle (10%): 95.4°  
Cutoff Angle (3%): 123.7°

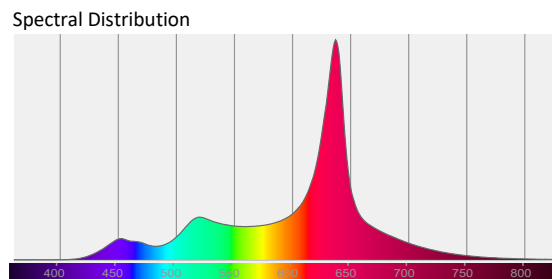
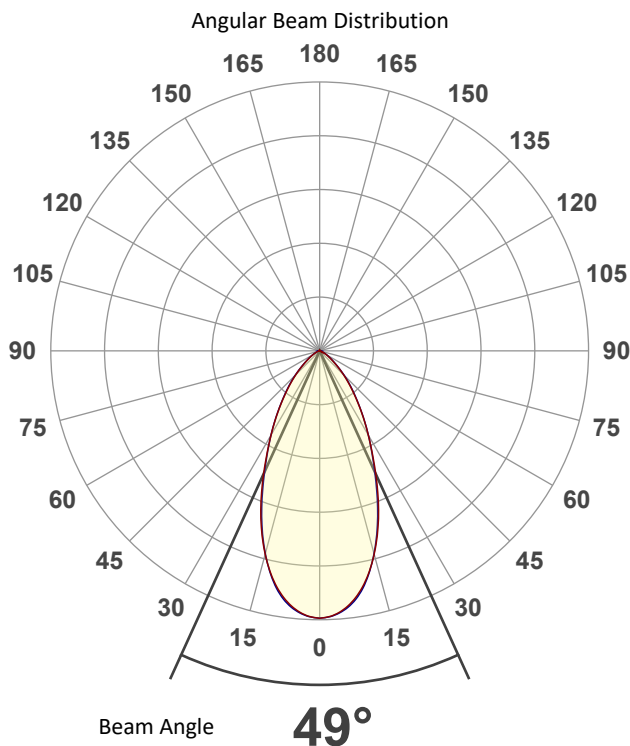
### Conditions

AC Supply: 118 V, 60 Hz  
Power: 26.04 W  
Current: 0.220 A  
Power Factor: 0.91



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.482  
Y: 0.387

Light Quality  
CRI: 68.0

Color Temperature  
2241 K

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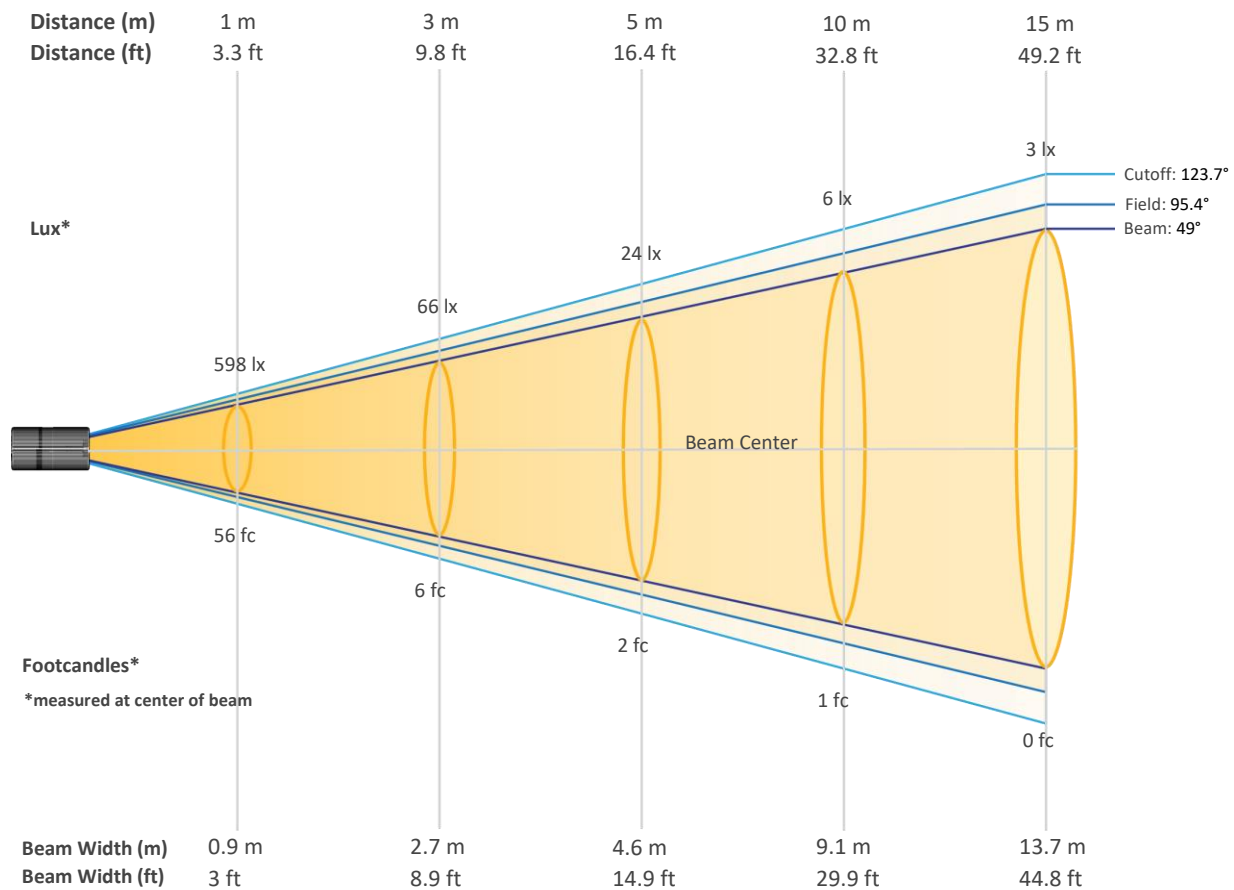
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	598	149	66	37	24	17	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	56	14	6	3	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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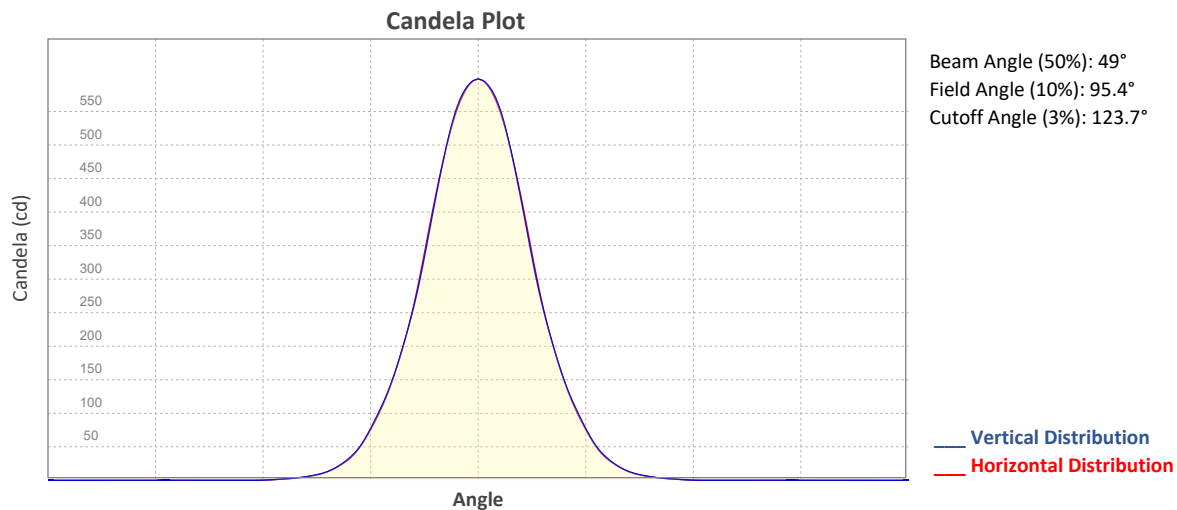
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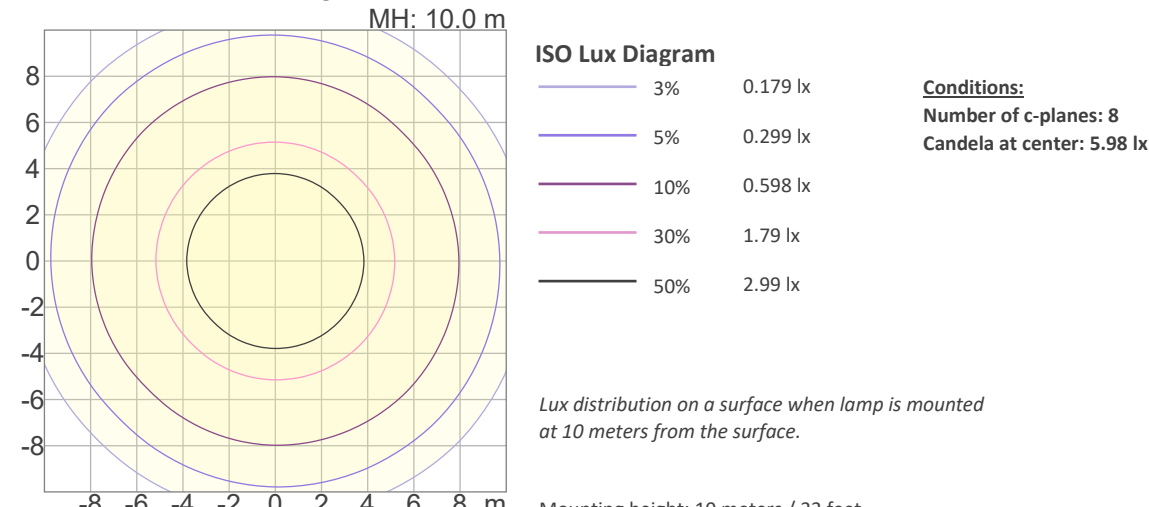
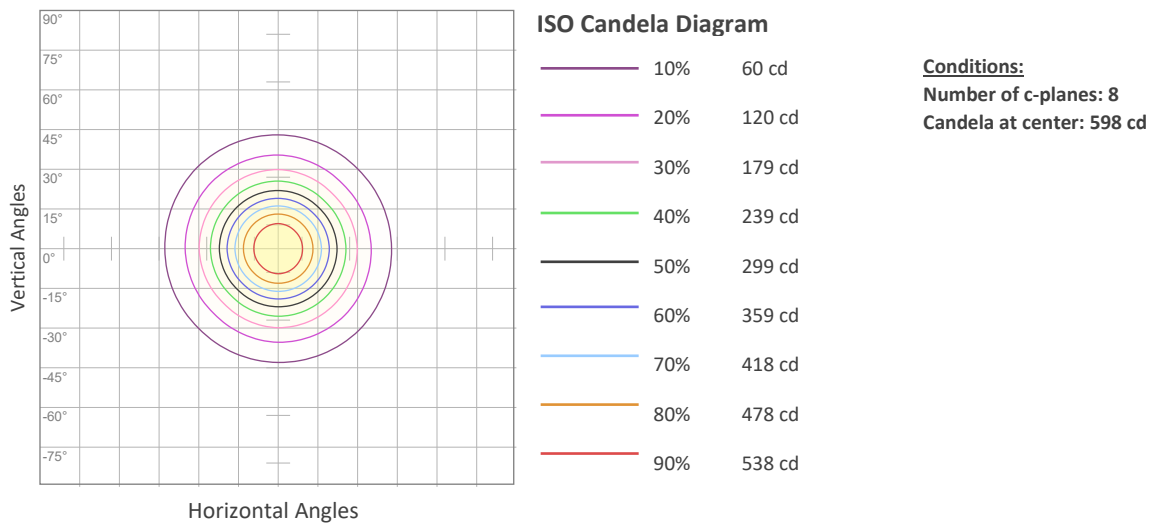
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K



## ISO Diagrams



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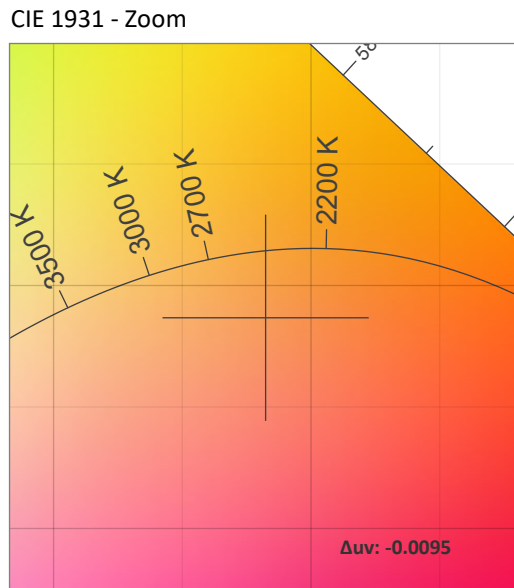
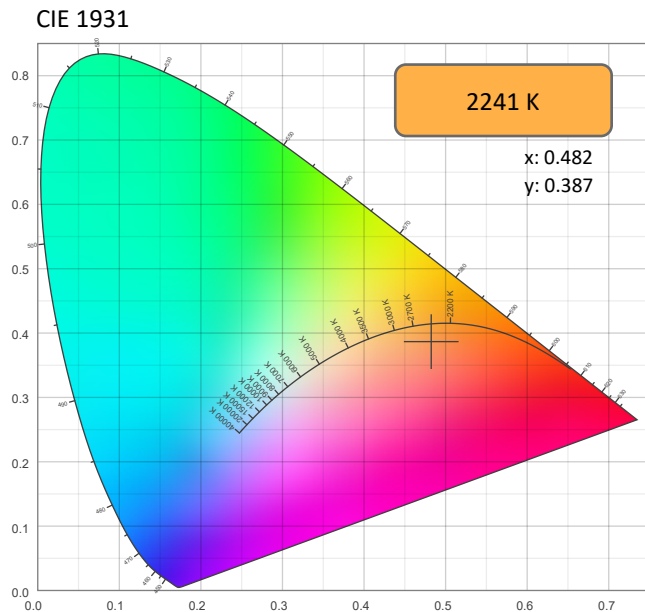




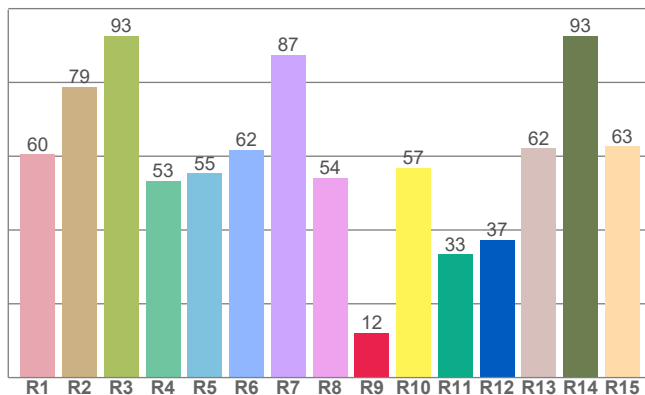
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2200K

## Chromaticity



CRI: 68.0 (R1-R8)

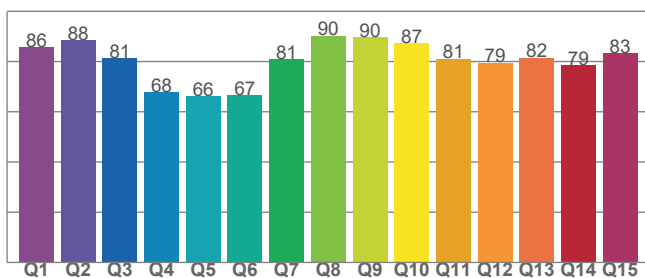


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2241 K	0.482	0.387

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0095	0.387	0.289

CQS: 78.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
68.0	12.0	78.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
56	79.1	117.0

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# Photometric & Chromaticity Report

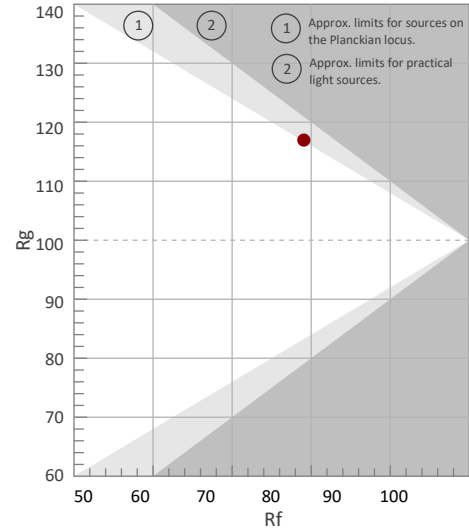
Logic AR111 Downlight M: Medium Filter Lens - 2200K

## TM-30 Details

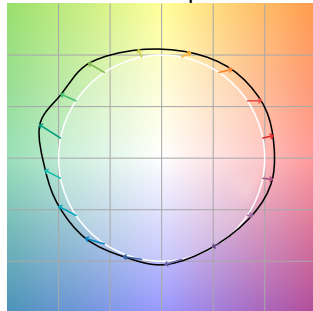
**Rf 79.1**  
Fidelity Index (Rg)

**Rg 117.0**  
Gammut Index (Rg)

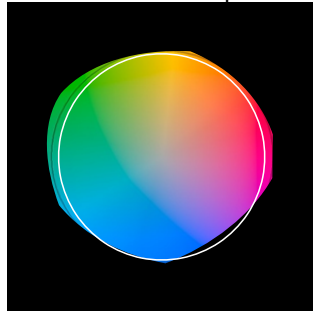
		Graphic shifts (%)	
Hue Bin	R <sub>f</sub>	Chroma	Hue
1	78	10%	0%
2	77	11%	-7%
3	72	9%	-9%
4	86	6%	-7%
5	89	7%	2%
6	78	16%	8%
7	76	15%	3%
8	70	22%	-9%
9	71	13%	-10%
10	70	9%	-16%
11	73	6%	-18%
12	74	1%	-17%
13	84	2%	-17%
14	84	-1%	-7%
15	89	4%	3%
16	86	9%	1%



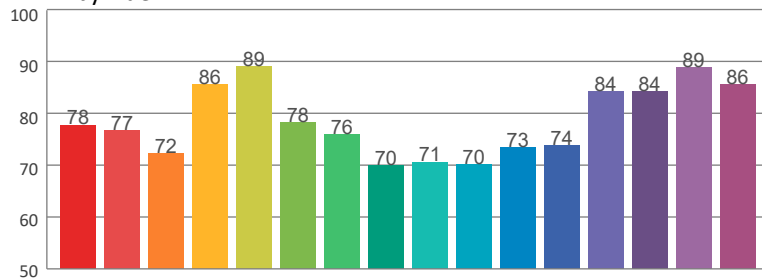
Color Vector Graphic



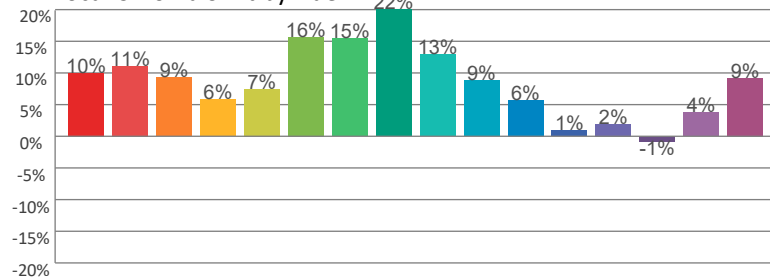
Color Distortion Graphic



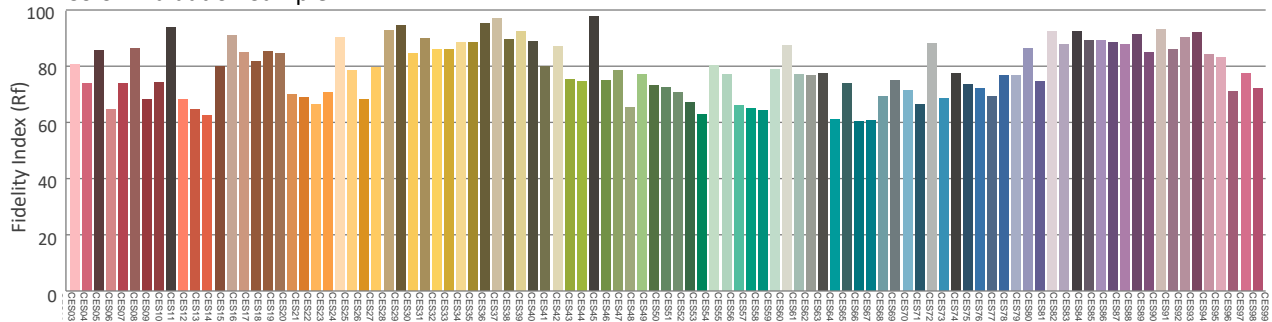
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

## Report Summary

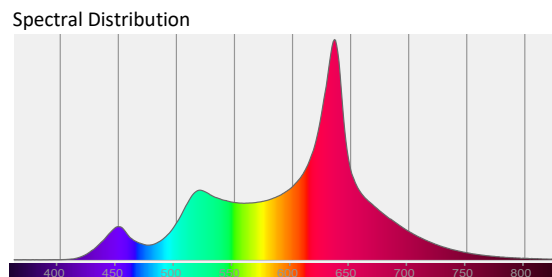
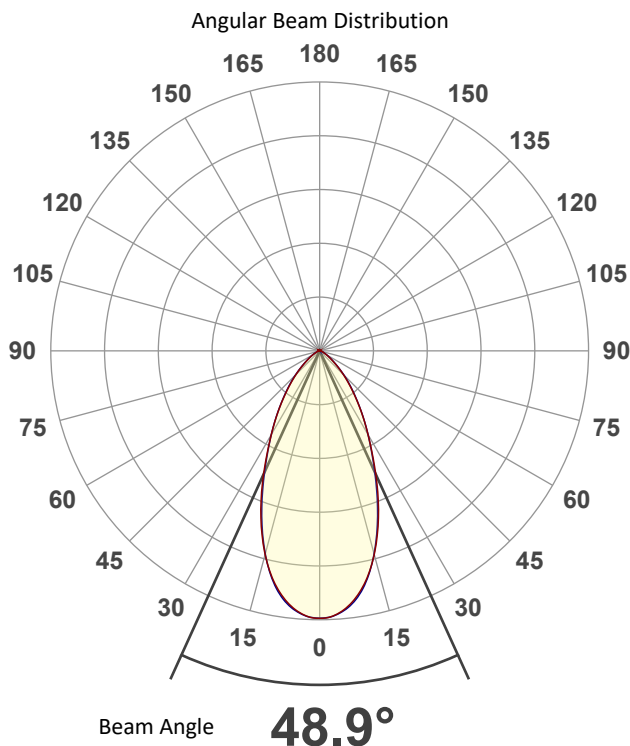
### Measurements

Fixture Output: 420 lm  
Fixture Peak: 485 cd  
Fixture Efficacy: 20 lm/W  
Intensity @ 5m: 19 lux  
Color Temperature: 2683 K  
CRI: 81.0      CRI R9 Value: 44.1  
CQS: 85.9  
TLCI: 75  
TM-30 Rf: 87.7  
TM-30 Rg: 109.2  
Beam Angle (50%): 48.9°  
Field Angle (10%): 95.3°  
Cutoff Angle (3%): 123.6°  
Conditions  
AC Supply: 119 V, 60.1 Hz  
Power: 23.82 W  
Current: 0.201 A  
Power Factor: 0.9



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.460  
Y: 0.409

Light Quality  
CRI: 81.0

Color Temperature  
2683 K

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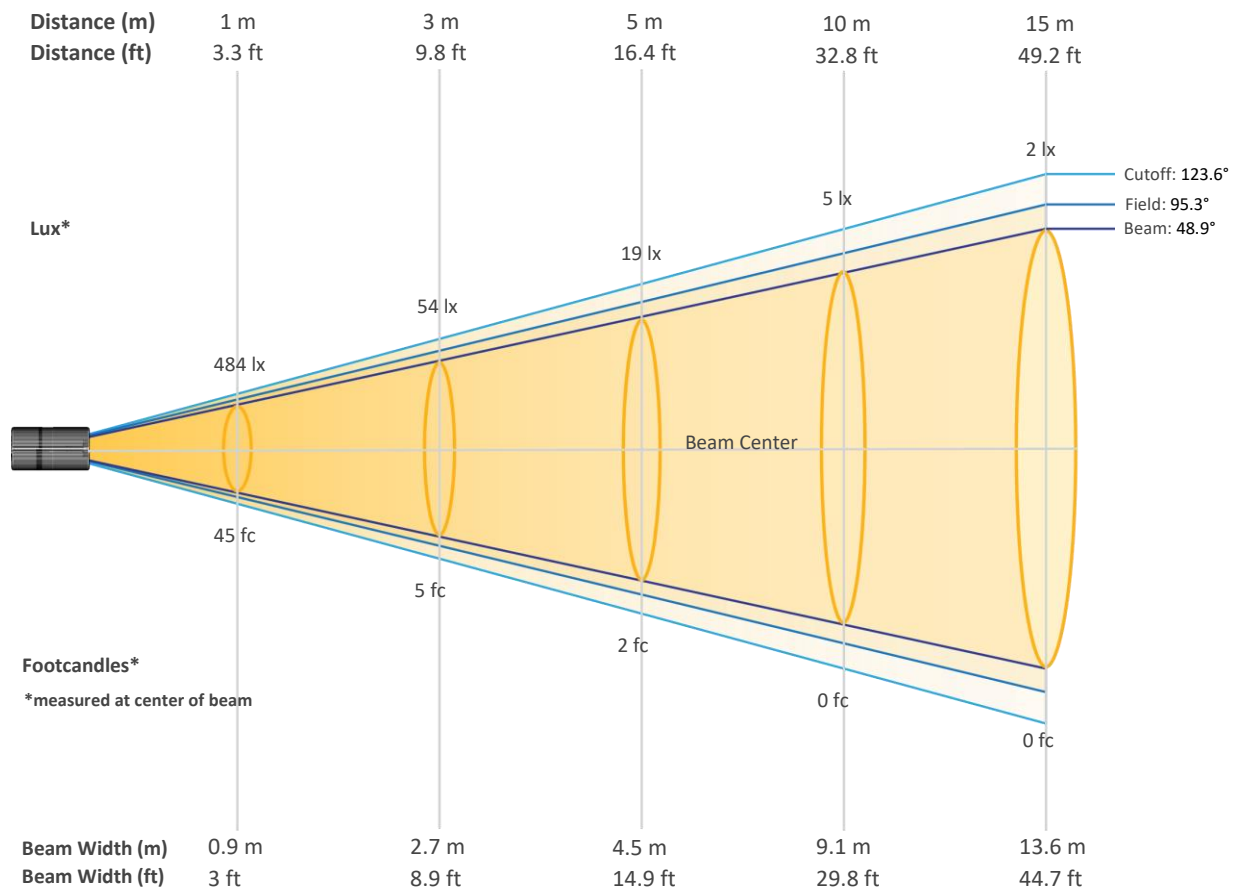
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	484	121	54	30	19	13	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	45	11	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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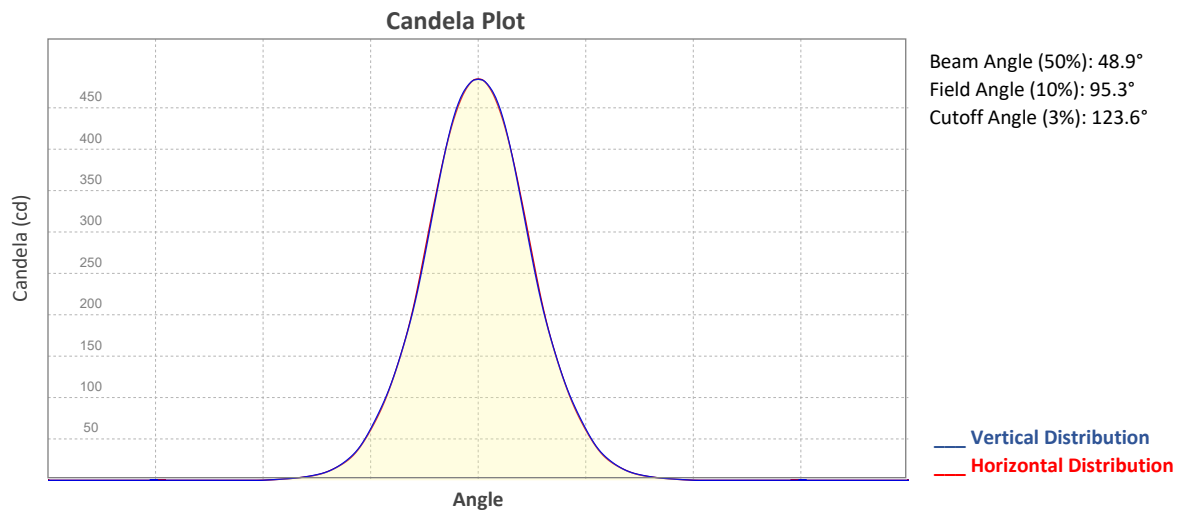
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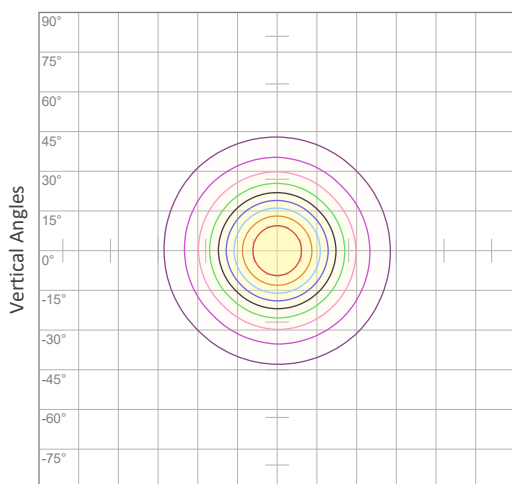
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K



## ISO Diagrams



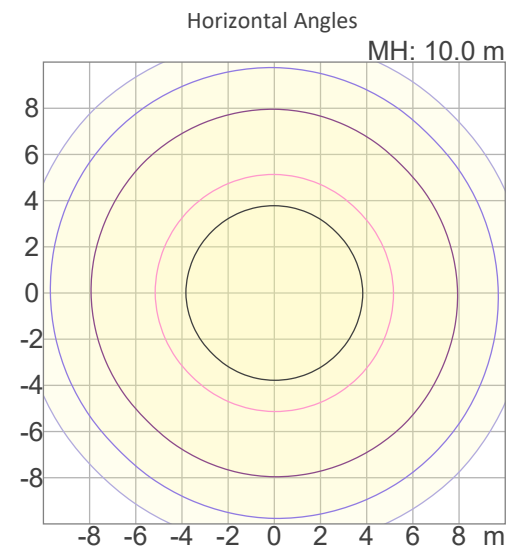
ISO Candela Diagram

10%	48 cd
20%	97 cd
30%	145 cd
40%	194 cd
50%	242 cd
60%	291 cd
70%	339 cd
80%	388 cd
90%	436 cd

**Conditions:**

Number of c-planes: 8

Candela at center: 484 cd



ISO Lux Diagram

3%	0.145 lx
5%	0.242 lx
10%	0.484 lx
30%	1.45 lx
50%	2.42 lx

**Conditions:**

Number of c-planes: 8

Candela at center: 4.84 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

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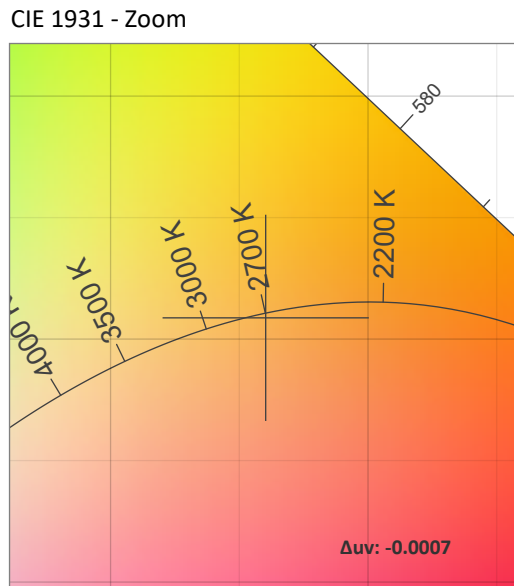
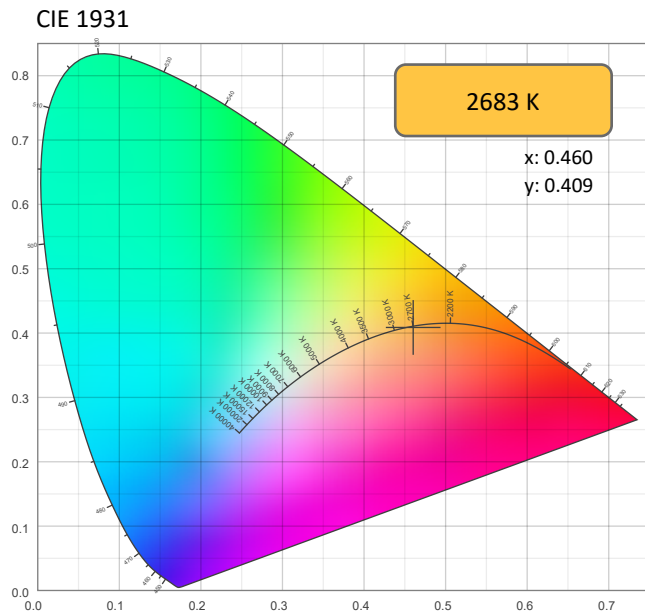
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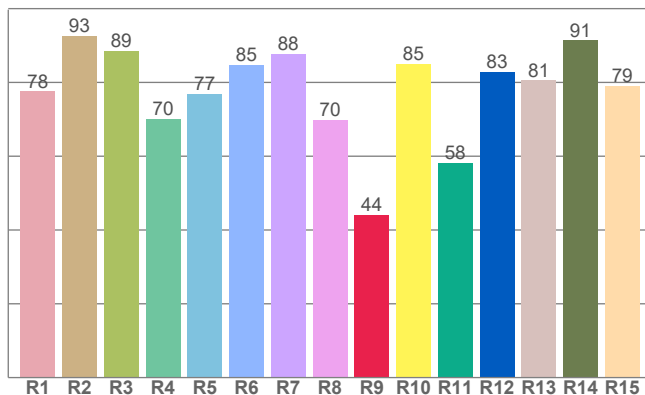
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 2700K

## Chromaticity



CRI: 81.0 (R1-R8)

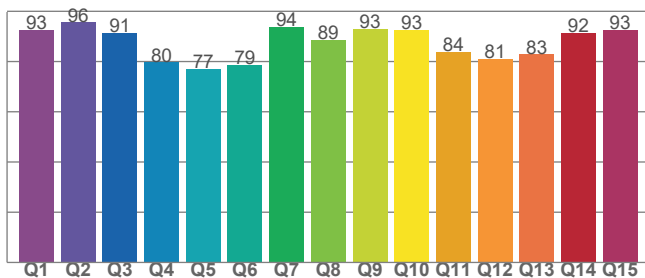


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2683 K	0.460	0.409

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.409	0.264

CQS: 85.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
81.0	44.1	85.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
75	87.7	109.2

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# Photometric & Chromaticity Report

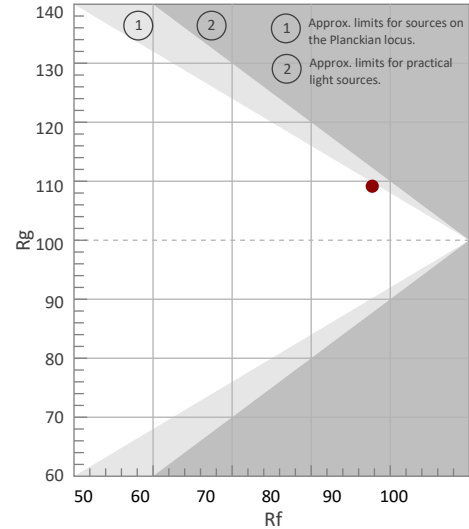
Logic AR111 Downlight M: Medium Filter Lens - 2700K

## TM-30 Details

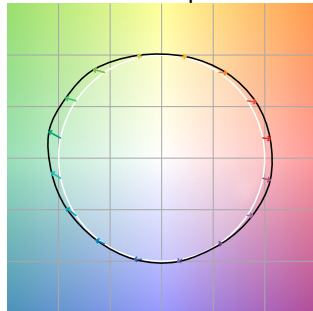
**Rf 87.7**  
Fidelity Index (Rg)

**Rg 109.2**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	85	7%	-2%
2	85	6%	-5%
3	85	4%	-6%
4	92	1%	-4%
5	94	2%	3%
6	86	8%	7%
7	84	10%	3%
8	80	12%	-4%
9	83	7%	-7%
10	83	4%	-11%
11	88	1%	-9%
12	89	1%	-7%
13	94	2%	-4%
14	93	1%	3%
15	91	4%	3%
16	90	7%	0%



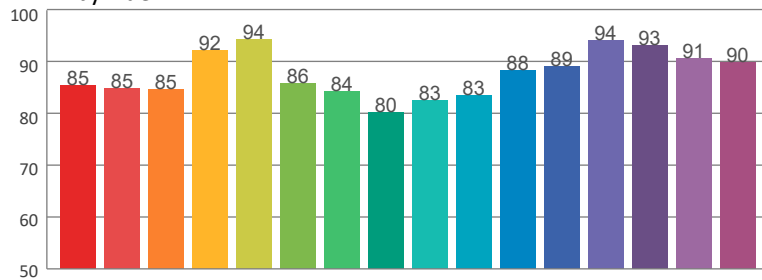
Color Vector Graphic



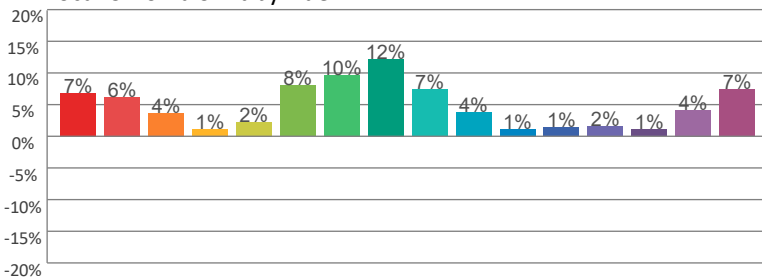
Color Distortion Graphic



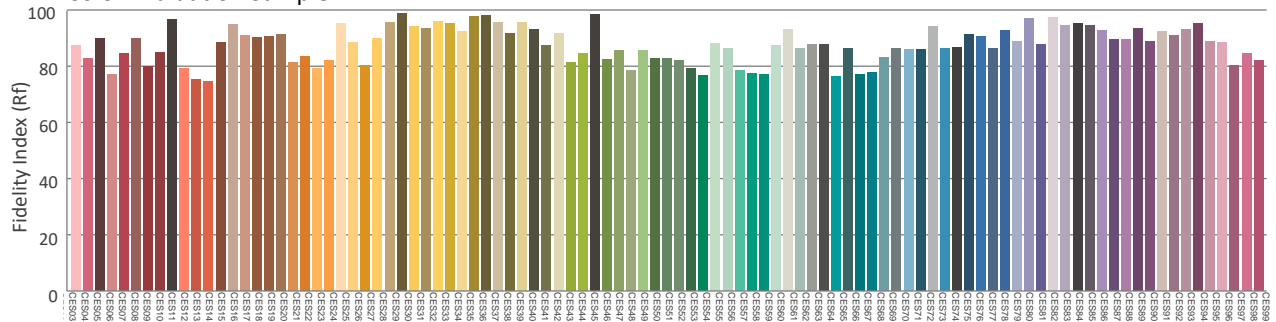
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

## Report Summary

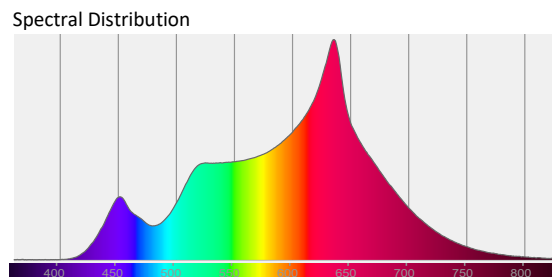
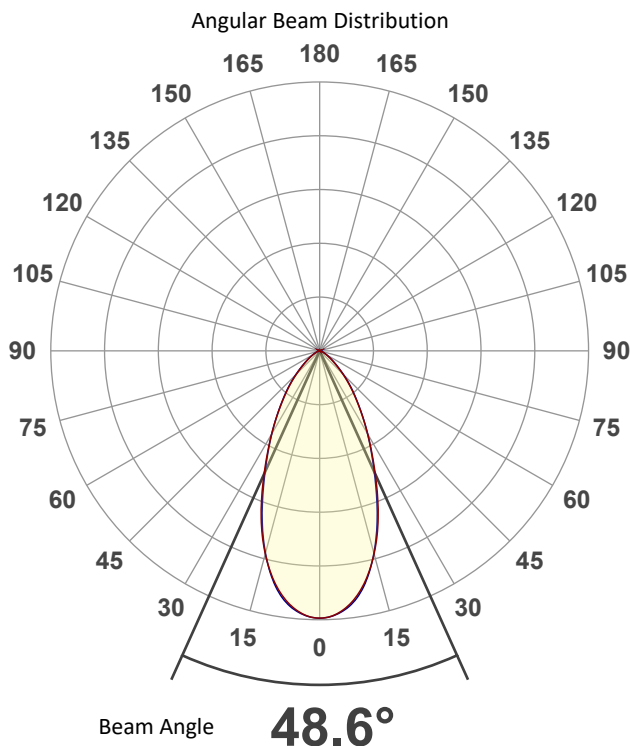
### Measurements

Fixture Output: 397 lm  
Fixture Peak: 462 cd  
Fixture Efficacy: 19 lm/W  
Intensity @ 5m: 18 lux  
Color Temperature: 2973 K  
CRI: 94.6      CRI R9 Value: 90.5  
CQS: 94.5  
TLCI: 95  
TM-30 Rf: 95.1  
TM-30 Rg: 104.3  
Beam Angle (50%): 48.6°  
Field Angle (10%): 95°  
Cutoff Angle (3%): 123.3°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 23.24 W  
Current: 0.196 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.439  
Y: 0.404

Light Quality  
CRI: 94.6

Color Temperature  
2973 K

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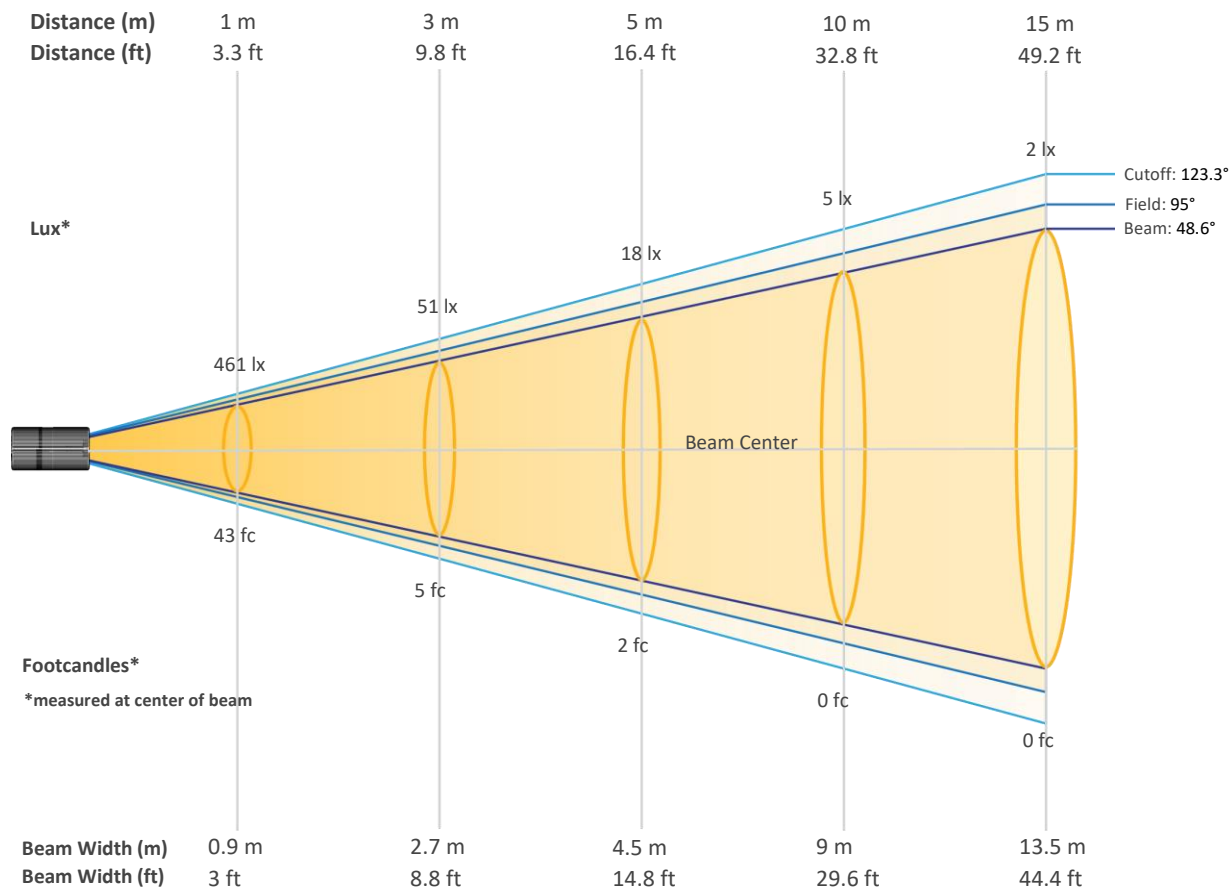
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	461	115	51	29	18	13	9	7	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	43	11	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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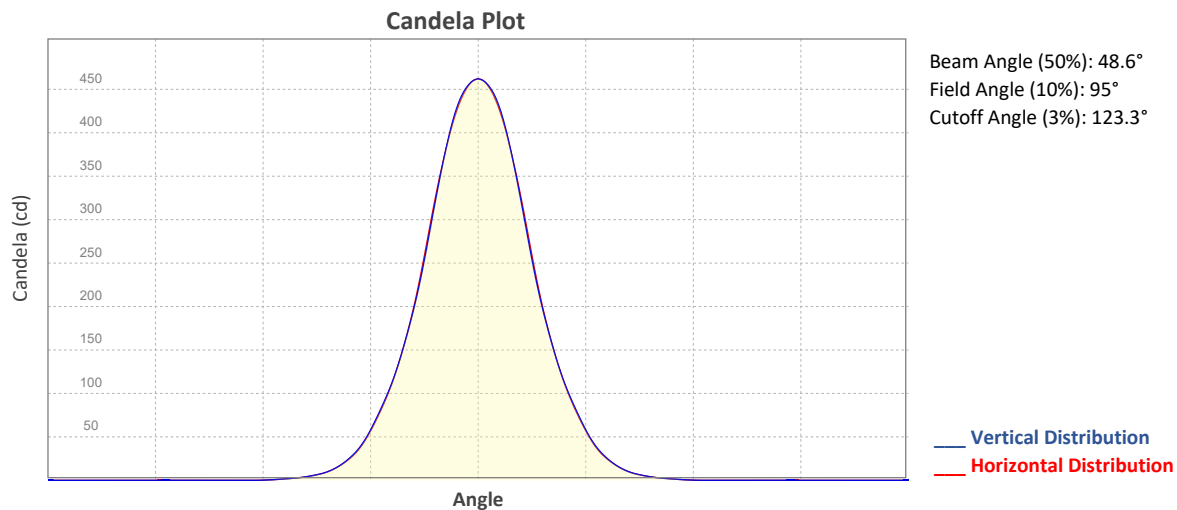
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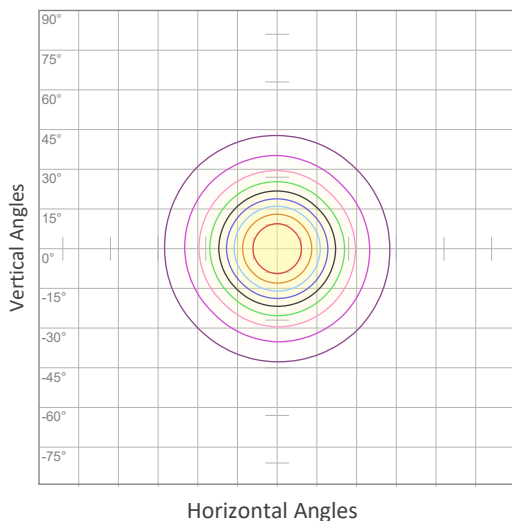
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K



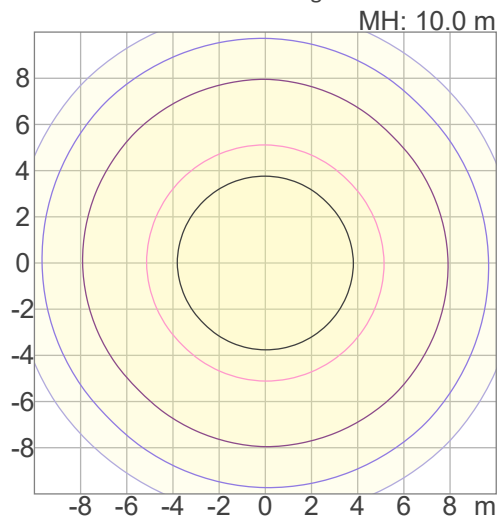
## ISO Diagrams



ISO Candela Diagram

10%	46 cd
20%	92 cd
30%	138 cd
40%	184 cd
50%	231 cd
60%	277 cd
70%	323 cd
80%	369 cd
90%	415 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 461 cd



ISO Lux Diagram

3%	0.138 lx
5%	0.231 lx
10%	0.461 lx
30%	1.38 lx
50%	2.31 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 4.61 lx

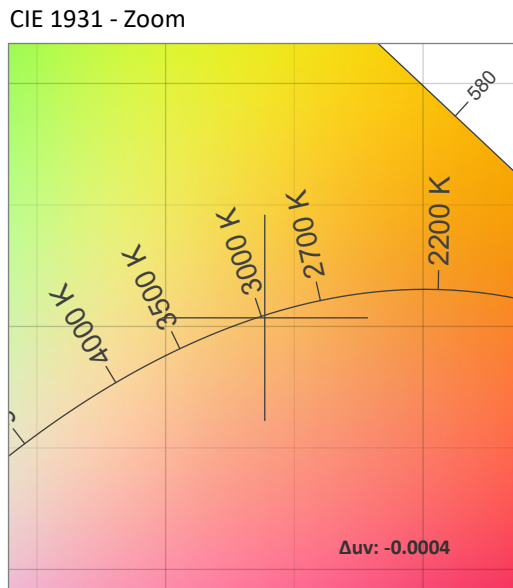
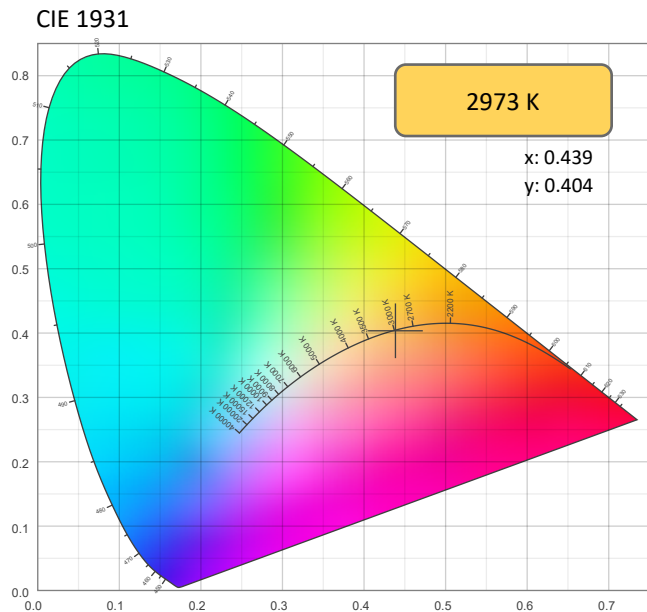
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

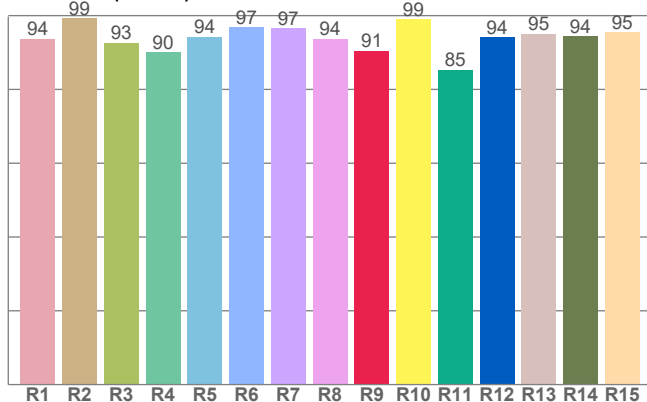
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3000K

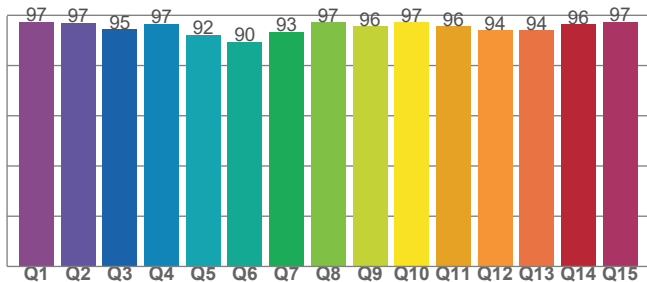
## Chromaticity



CRI: 94.6 (R1-R8)



CQS: 94.5



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2973 K	0.439	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0004	0.404	0.252

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.6	90.5	94.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
95	95.1	104.3

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# Photometric & Chromaticity Report

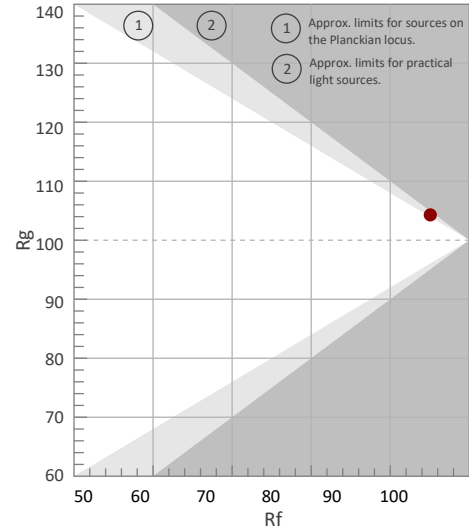
Logic AR111 Downlight M: Medium Filter Lens - 3000K

## TM-30 Details

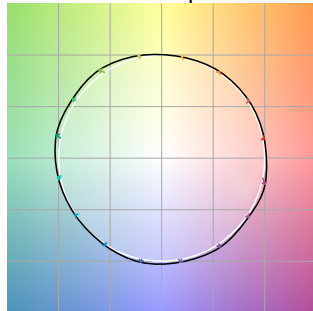
**Rf 95.1**  
Fidelity Index  
(Rg)

**Rg 104.3**  
Gammut Index (Rg)

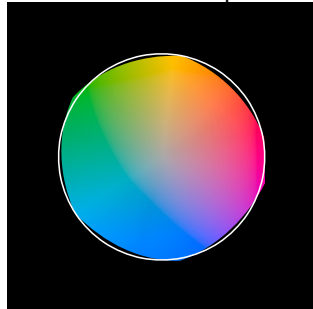
		Graphic shifts (%)		
Hue Bin	R <sub>f</sub>	Chroma	Hue	
1	96	1%	-1%	
2	96	1%	-1%	
3	96	1%	0%	
4	97	0%	0%	
5	95	2%	3%	
6	92	5%	3%	
7	94	4%	0%	
8	92	5%	-2%	
9	95	2%	-2%	
10	97	0%	-1%	
11	96	1%	2%	
12	93	3%	0%	
13	95	2%	-3%	
14	95	3%	-2%	
15	95	2%	0%	
16	92	3%	-5%	



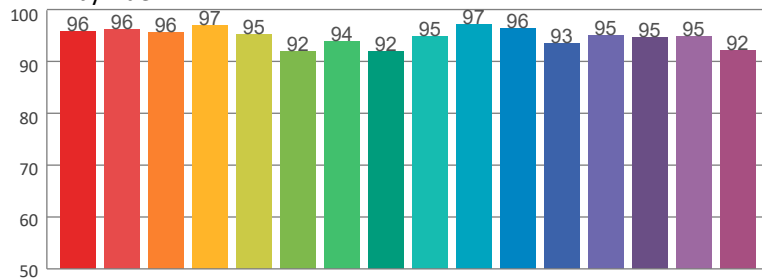
Color Vector Graphic



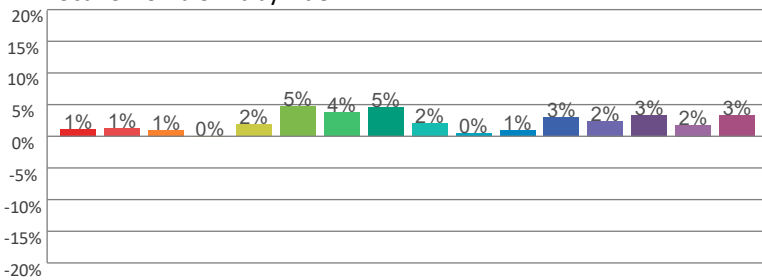
Color Distortion Graphic



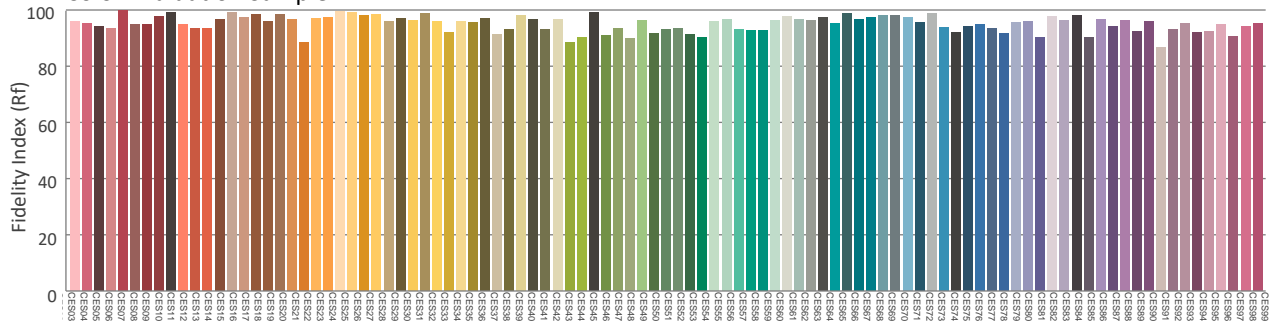
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

## Report Summary

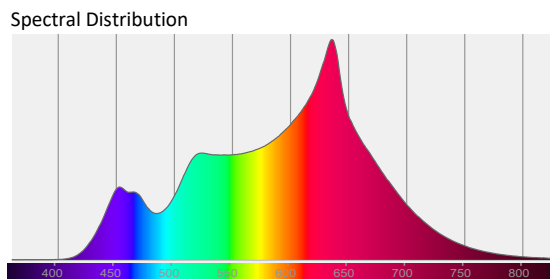
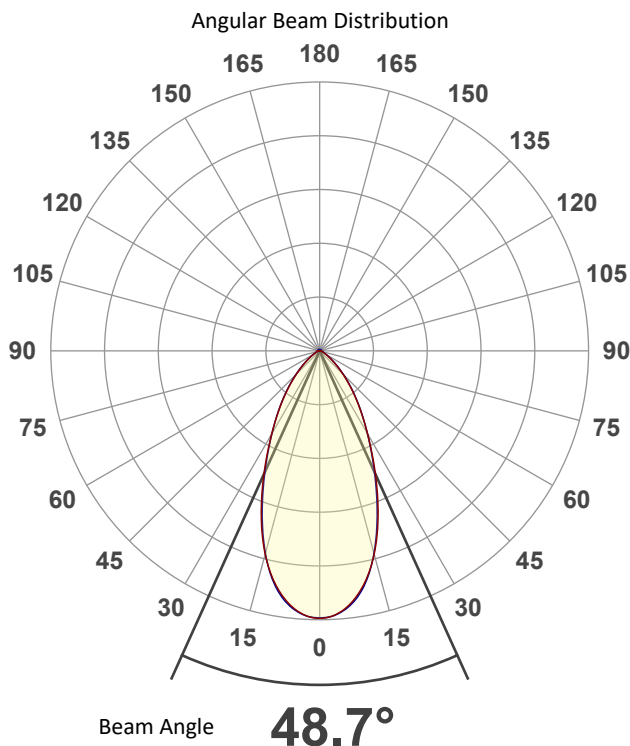
### Measurements


Fixture Output: 400 lm  
 Fixture Peak: 464 cd  
 Fixture Efficacy: 19 lm/W  
 Intensity @ 5m: 19 lux  
 Color Temperature: 3142 K  
 CRI: 94.4      CRI R9 Value: 87.0  
 CQS: 95.7  
 TLCI: 97  
 TM-30 Rf: 95.1  
 TM-30 Rg: 103.4  
 Beam Angle (50%): 48.7°  
 Field Angle (10%): 95.1°  
 Cutoff Angle (3%): 123.3°  
**Conditions**  
 AC Supply: 118 V, 60 Hz  
 Power: 23.32 W  
 Current: 0.197 A  
 Power Factor: 0.89

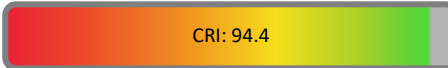



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):   
 X: 0.425  
 Y: 0.396

Light Quality  
 CRI: 94.4

Color Temperature  
 3142 K

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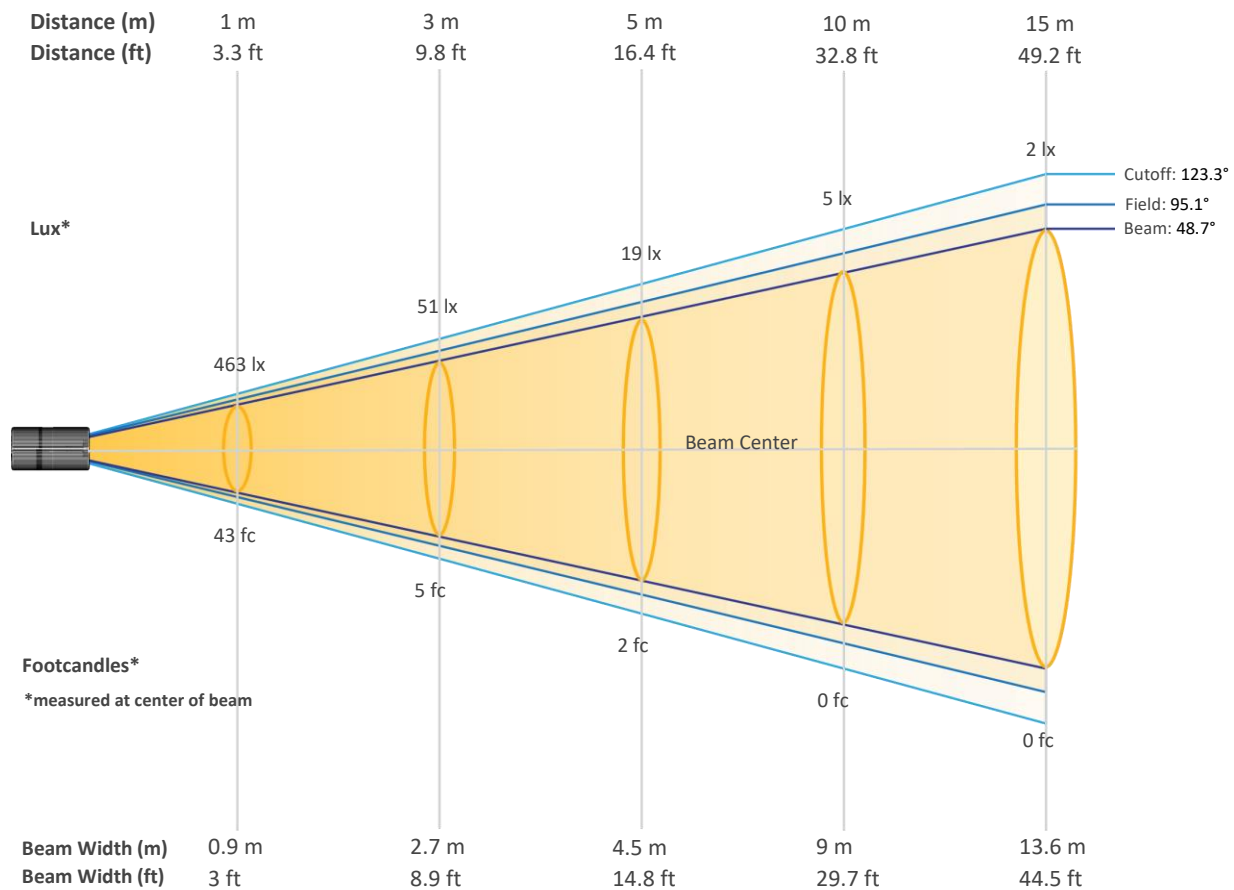
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	463	116	51	29	19	13	9	7	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	2	2	2	2	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	43	11	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

ILUMINARC – [www.iluminarc.com](http://www.iluminarc.com)

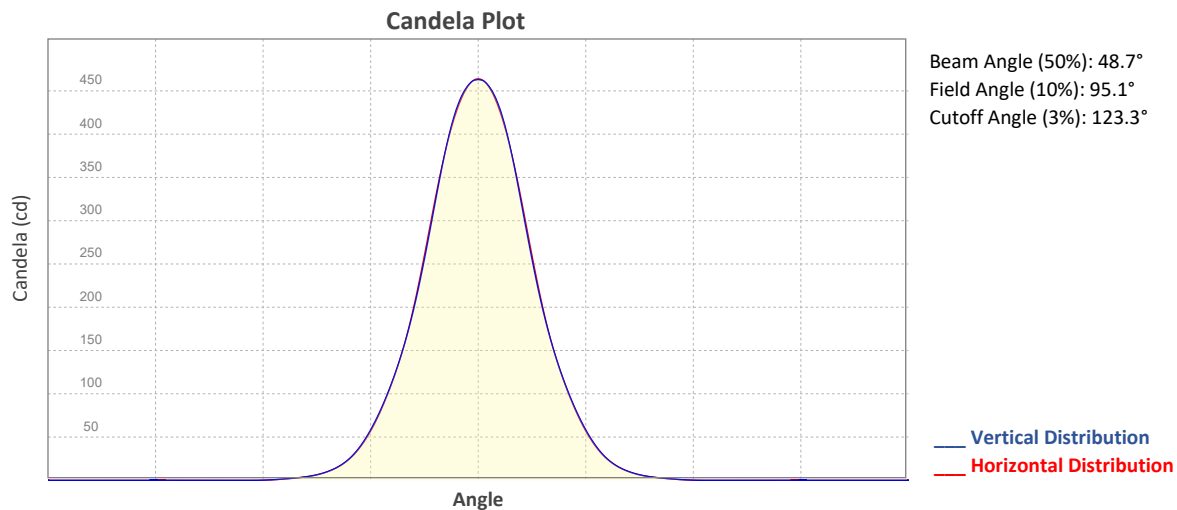
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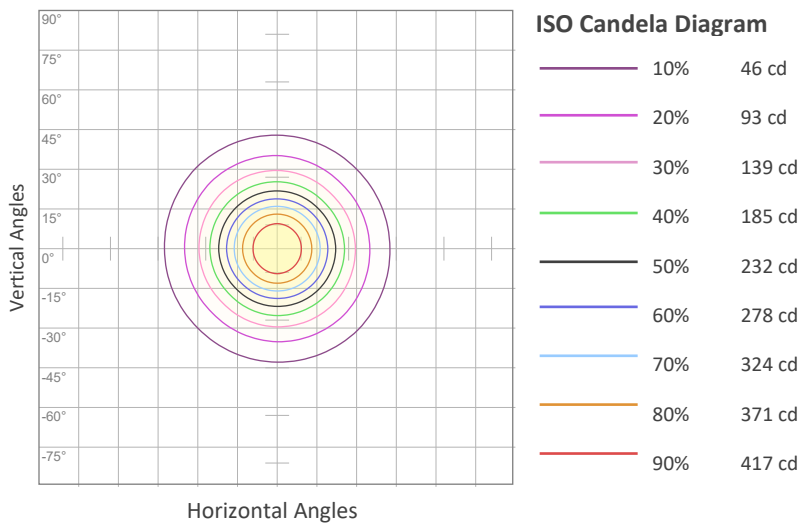
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# Photometric & Chromaticity Report

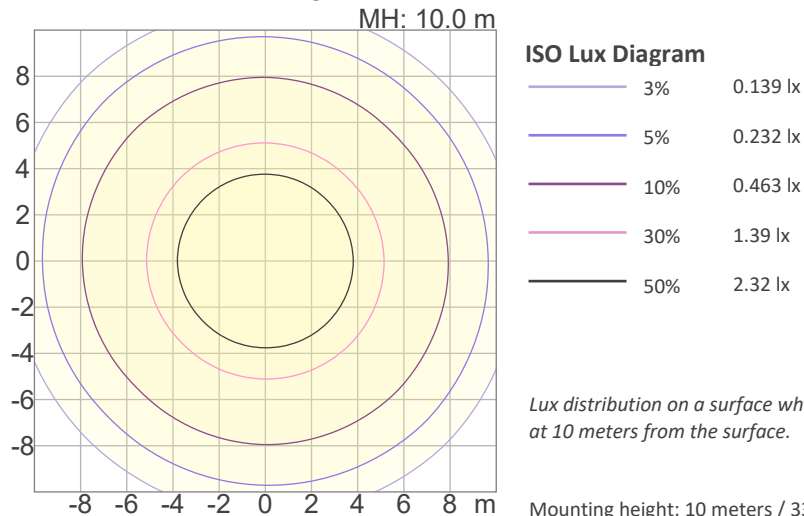
Logic AR111 Downlight M: Medium Filter Lens - 3200K



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 463 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 4.63 lx

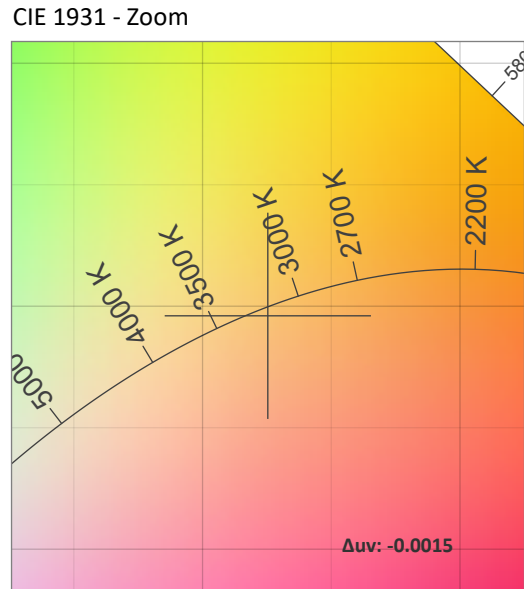
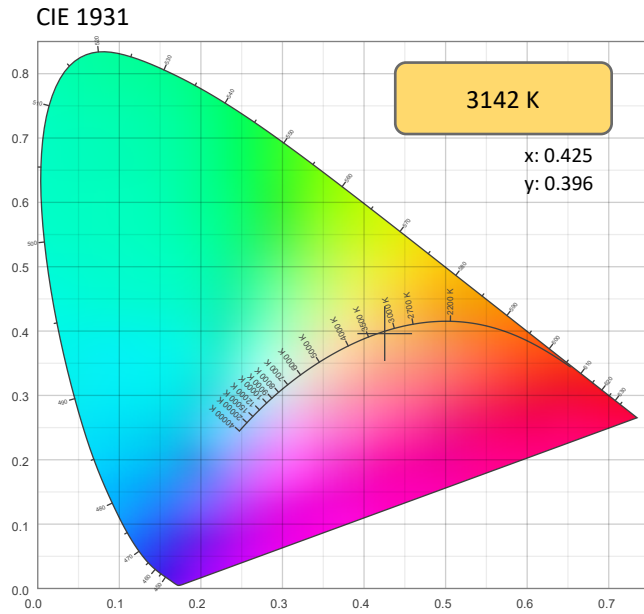
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

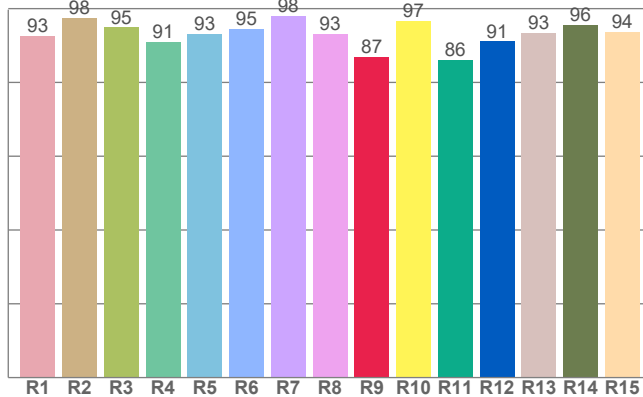
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 3200K

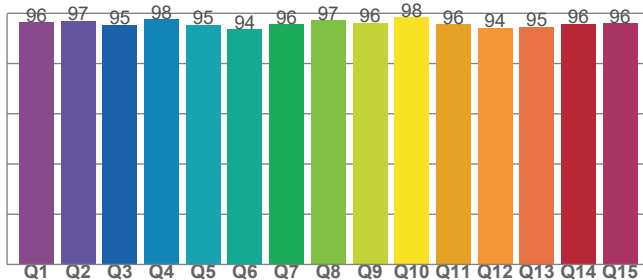
## Chromaticity



### CRI: 94.4 (R1-R8)



### CQS: 95.7



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3142 K	0.425	0.396

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0015	0.396	0.247

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.4	87.0	95.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
97	95.1	103.4

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# Photometric & Chromaticity Report

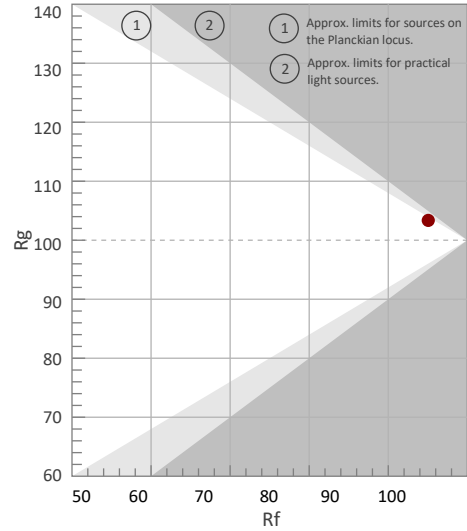
Logic AR111 Downlight M: Medium Filter Lens - 3200K

## TM-30 Details

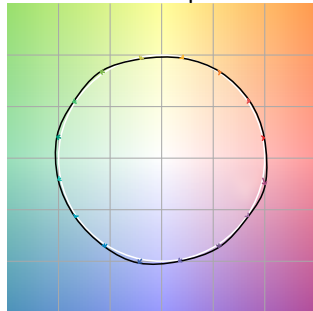
**Rf 95.1**  
Fidelity Index (Rg)

**Rg 103.4**  
Gammut Index (Rg)

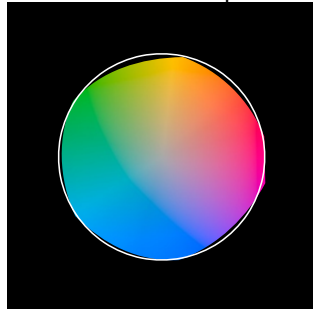
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	0%
2	96	2%	-1%
3	95	1%	-1%
4	97	-1%	-1%
5	95	-2%	1%
6	94	3%	3%
7	94	1%	2%
8	94	4%	-1%
9	96	3%	1%
10	96	2%	1%
11	96	2%	2%
12	93	4%	-2%
13	95	1%	-3%
14	95	3%	-2%
15	94	1%	0%
16	92	4%	-5%



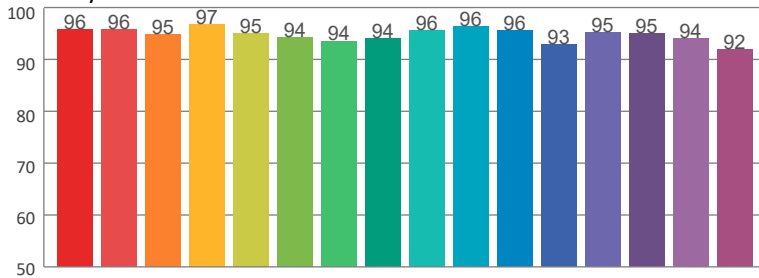
Color Vector Graphic



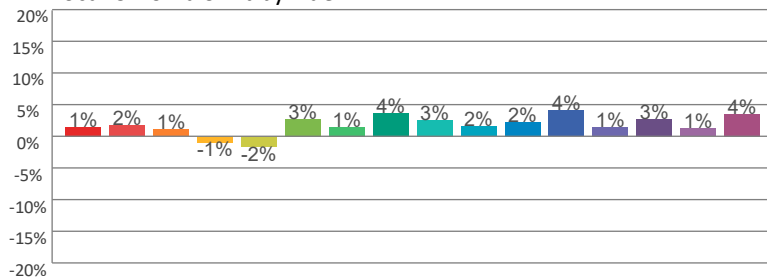
Color Distortion Graphic



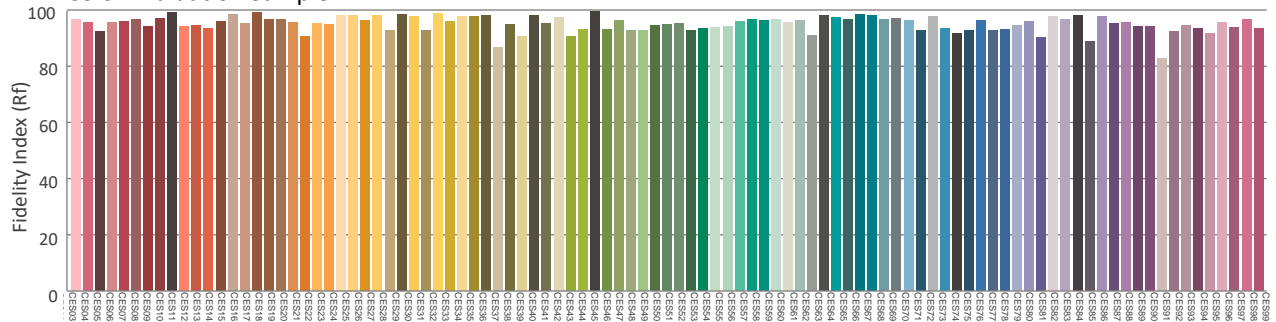
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

## Report Summary

### Measurements

Fixture Output: 433 lm  
Fixture Peak: 499 cd  
Fixture Efficacy: 20 lm/W  
Intensity @ 5m: 20 lux  
Color Temperature: 4158 K  
CRI: 92.4      CRI R9 Value: 82.0  
CQS: 93.6  
TLCI: 97  
TM-30 Rf: 89.6  
TM-30 Rg: 98.4  
Beam Angle (50%): 48.9°  
Field Angle (10%): 95.5°  
Cutoff Angle (3%): 123.9°

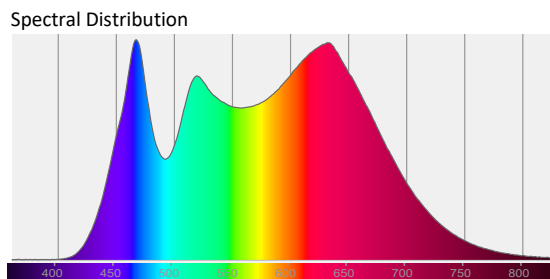
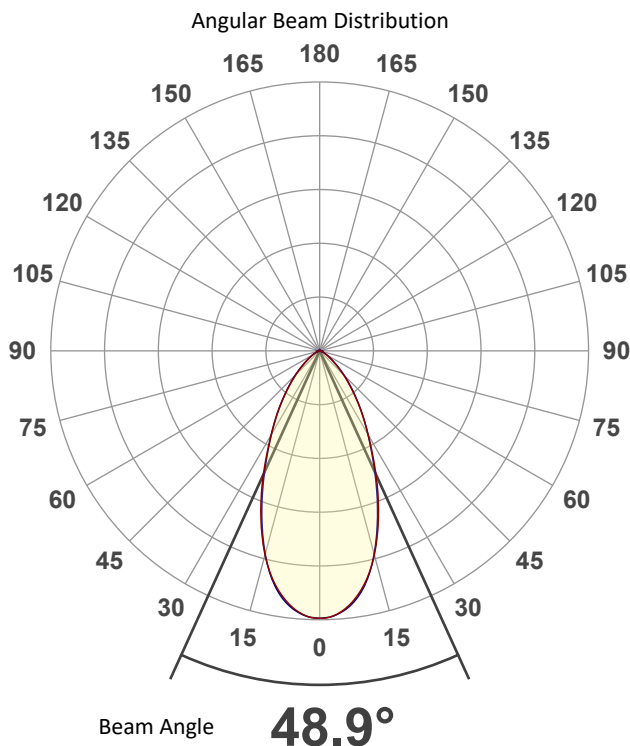
### Conditions

AC Supply: 119 V, 60 Hz  
Power: 24.44 W  
Current: 0.206 A  
Power Factor: 0.9



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.373  
Y: 0.371

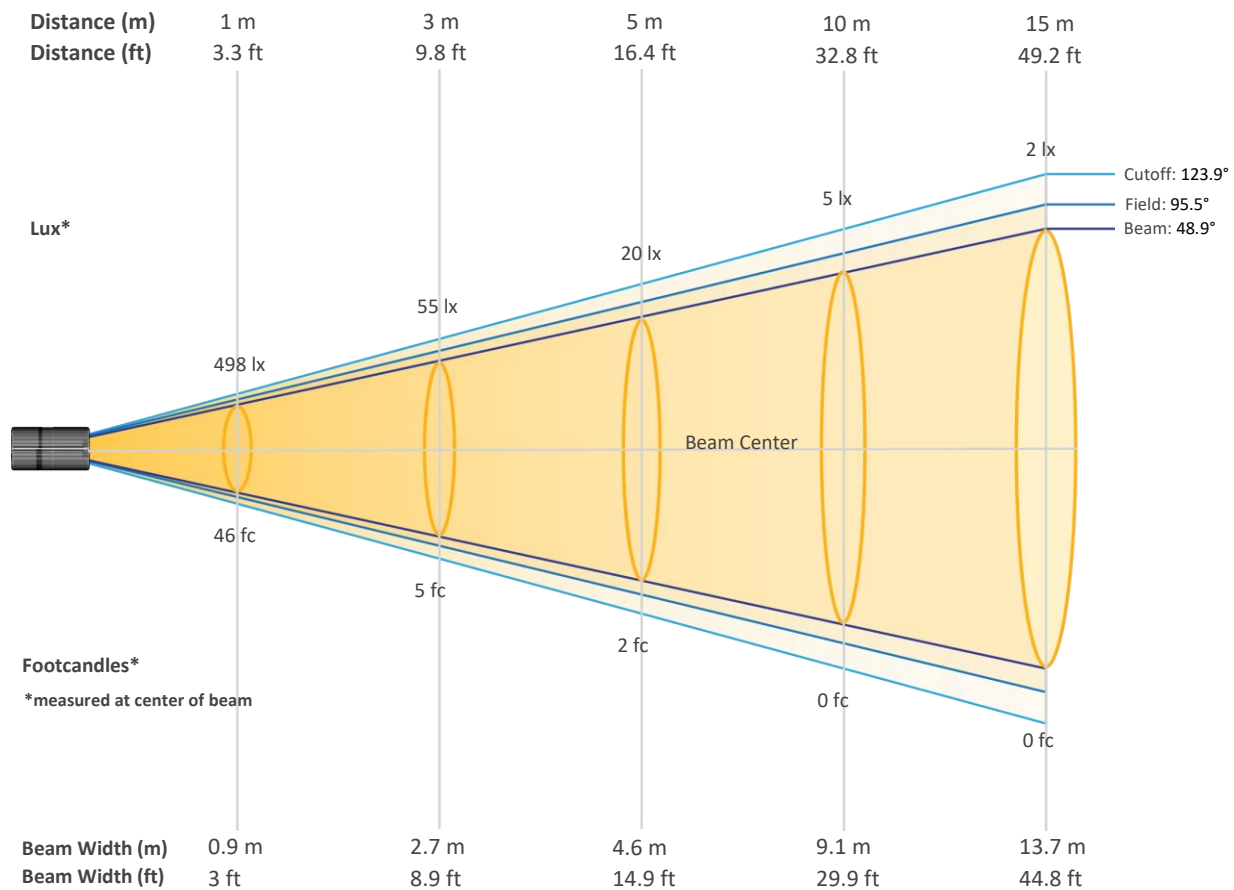
Light Quality  
CRI: 92.4

Color Temperature  
4158 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	498	125	55	31	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	3	2	2	2	2	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	46	12	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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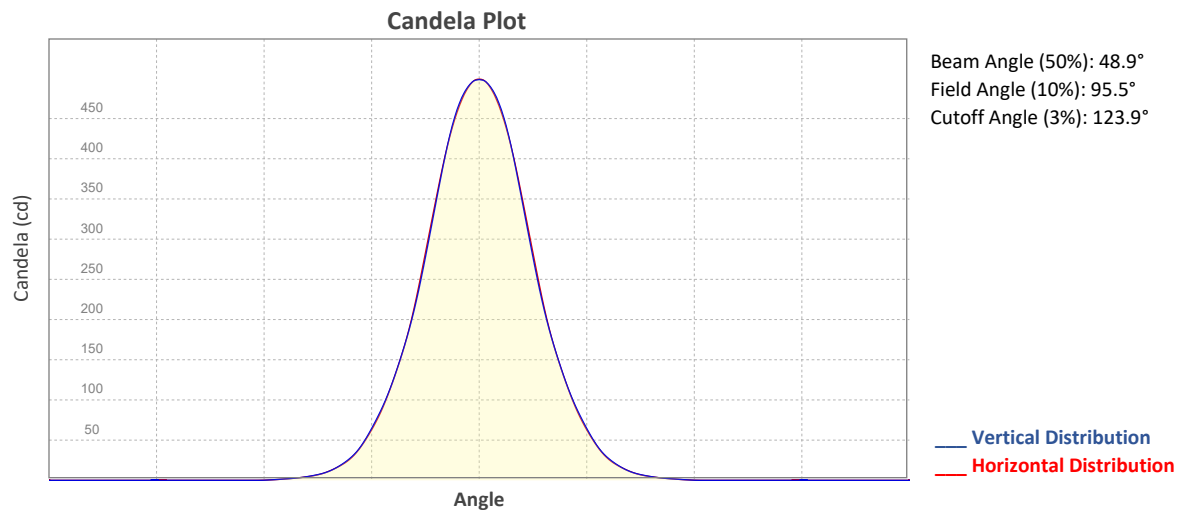
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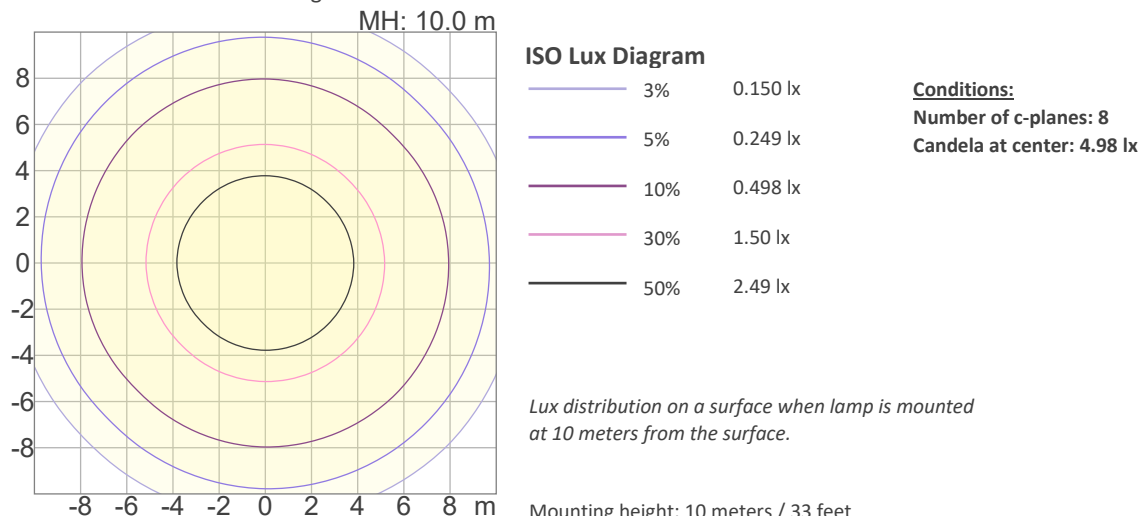
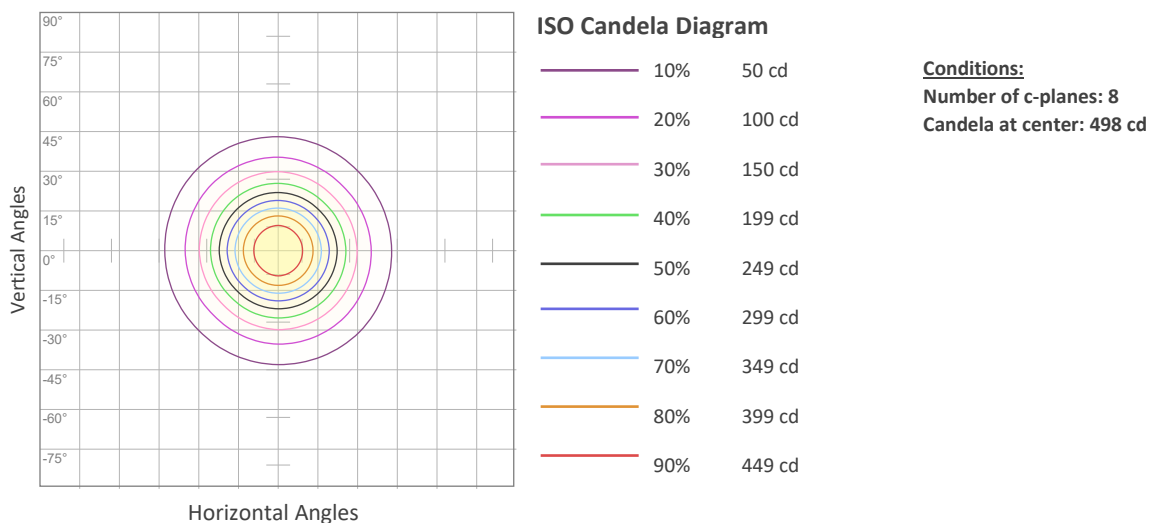
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K



## ISO Diagrams



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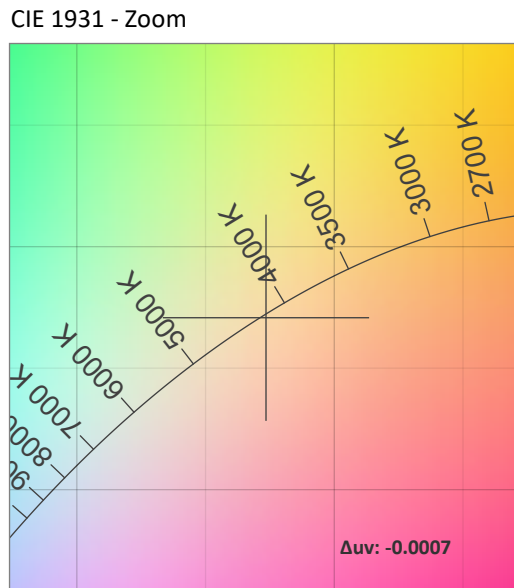
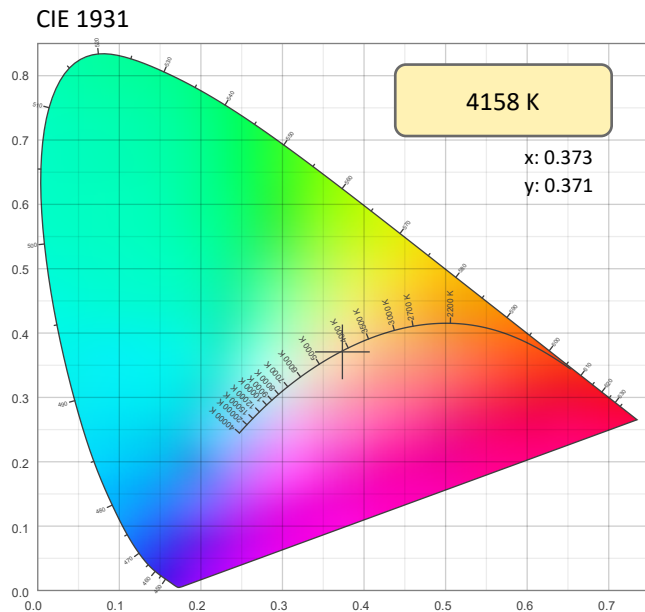
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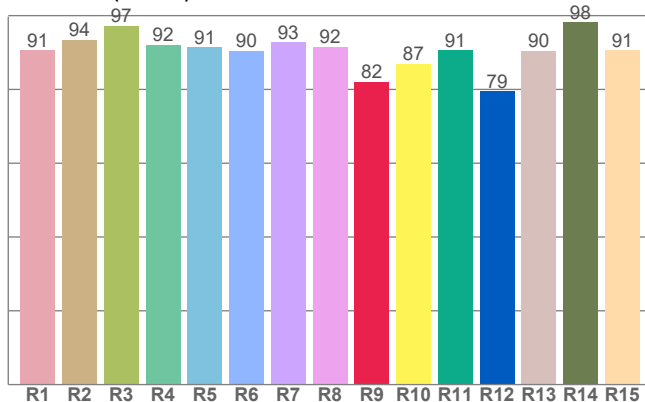
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4000K

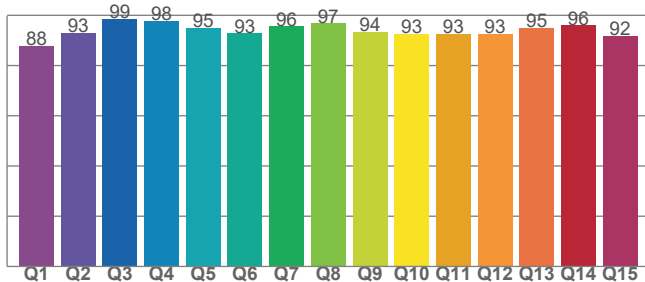
## Chromaticity



CRI: 92.4 (R1-R8)



CQS: 93.6



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4158 K	0.373	0.371

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0007	0.371	0.223

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.4	82.0	93.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
97	89.6	98.4

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# Photometric & Chromaticity Report

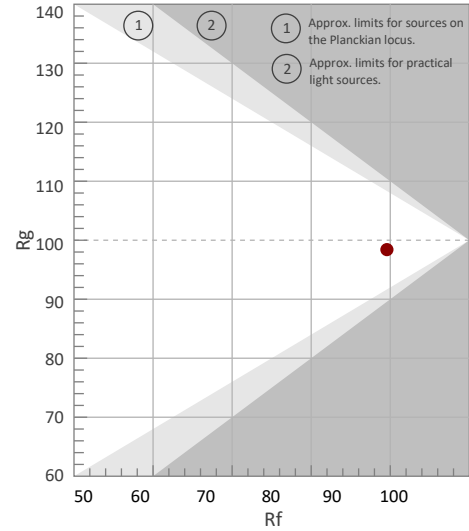
Logic AR111 Downlight M: Medium Filter Lens - 4000K

## TM-30 Details

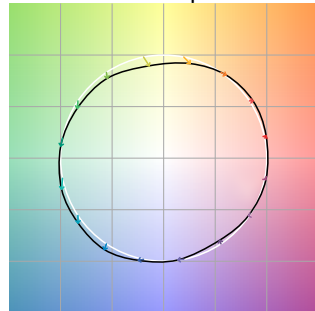
**Rf 89.6**  
Fidelity Index (Rg)

**Rg 98.4**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	2%
2	93	3%	-2%
3	90	1%	-5%
4	86	-5%	-7%
5	86	-9%	-4%
6	92	-5%	2%
7	90	-3%	6%
8	88	0%	8%
9	86	3%	10%
10	88	4%	6%
11	90	6%	1%
12	91	2%	-5%
13	91	-1%	-6%
14	93	-4%	1%
15	91	-1%	-1%
16	90	1%	-1%



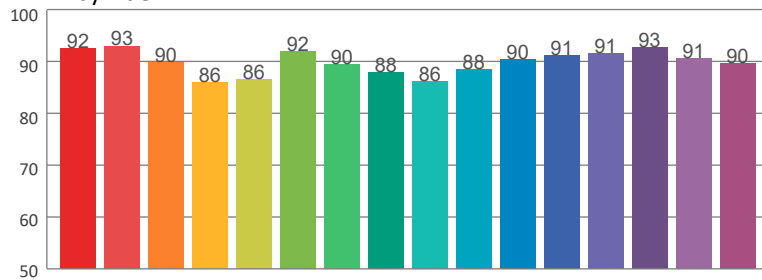
Color Vector Graphic



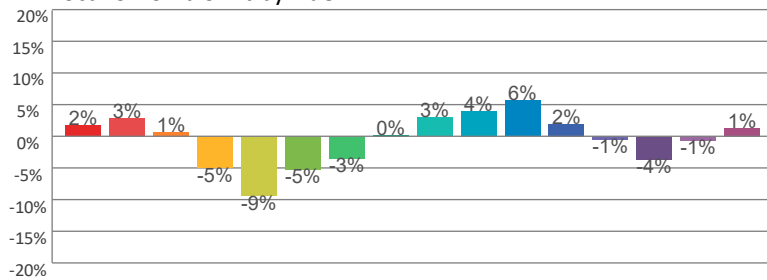
Color Distortion Graphic



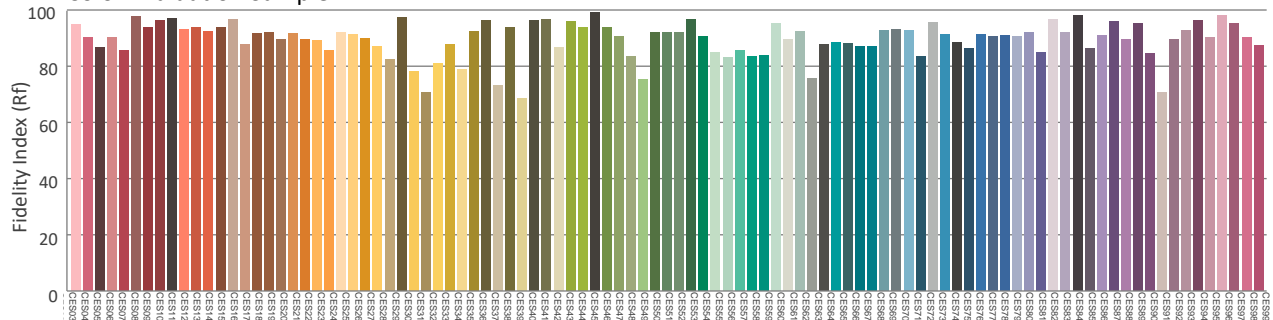
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

## Report Summary

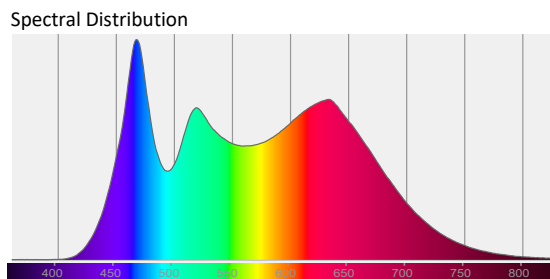
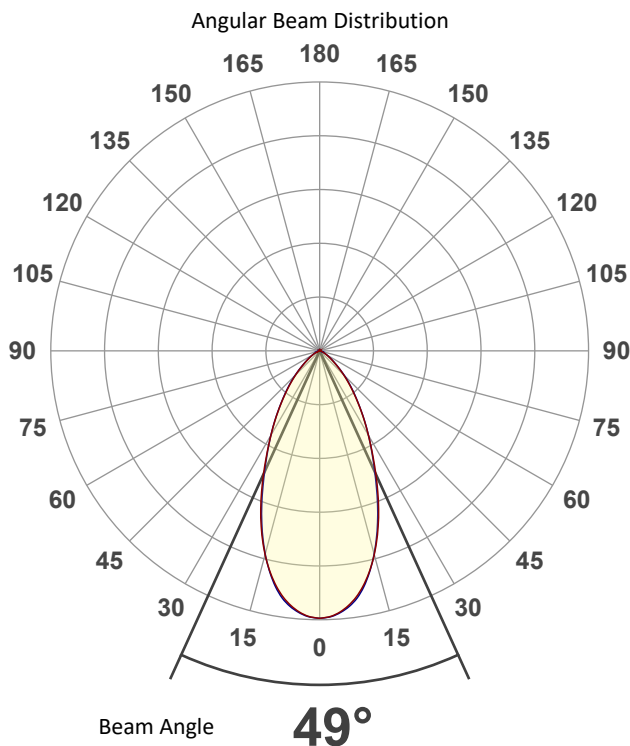
### Measurements

Fixture Output: 449 lm  
Fixture Peak: 515 cd  
Fixture Efficacy: 20 lm/W  
Intensity @ 5m: 21 lux  
Color Temperature: 4700 K  
CRI: 88.3      CRI R9 Value: 68.0  
CQS: 90.3  
TLCI: 95  
TM-30 Rf: 87.0  
TM-30 Rg: 98.1  
Beam Angle (50%): 49°  
Field Angle (10%): 95.6°  
Cutoff Angle (3%): 124.1°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 24.75 W  
Current: 0.208 A  
Power Factor: 0.9



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.354  
Y: 0.356

Light Quality  
CRI: 88.3

Color Temperature  
4700 K

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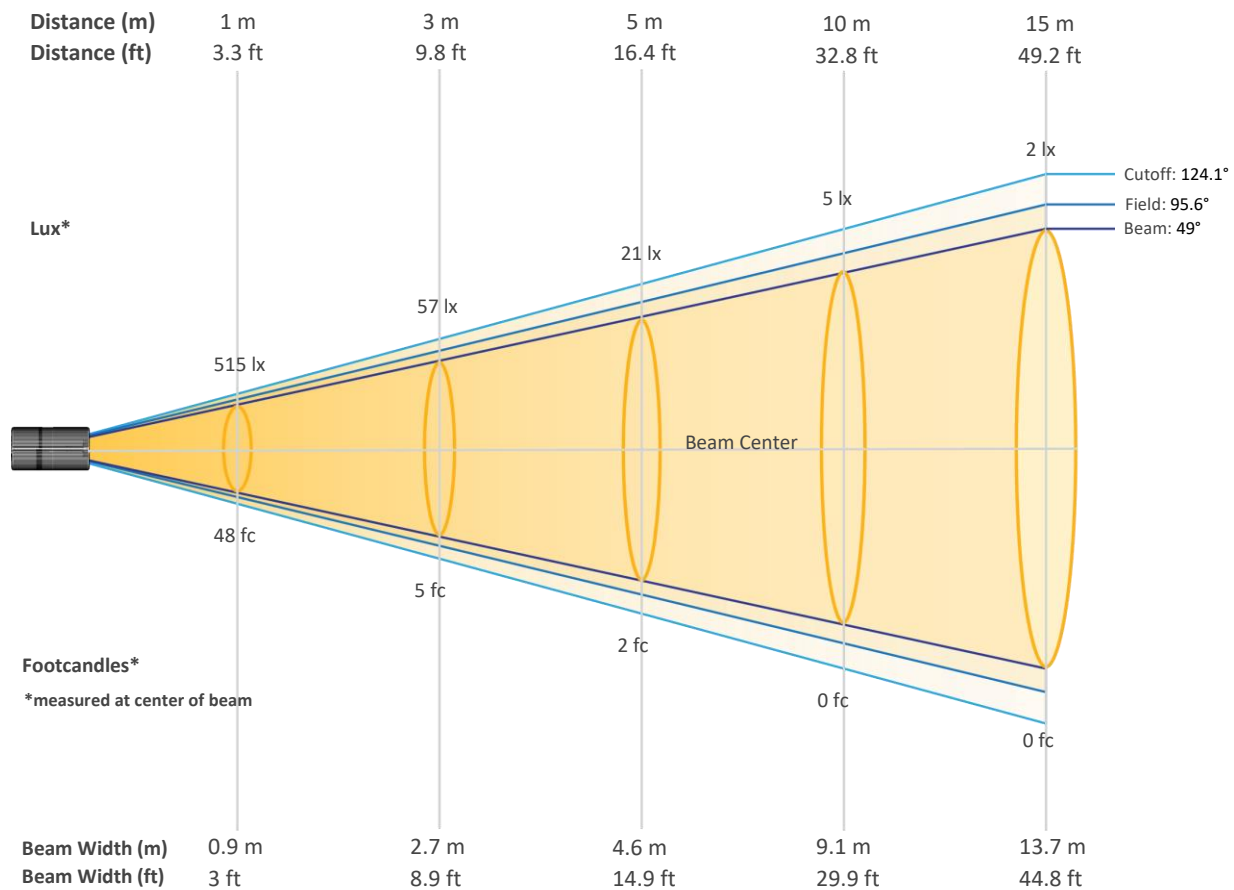
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	515	129	57	32	21	14	11	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	4	3	3	2	2	2	2	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	48	12	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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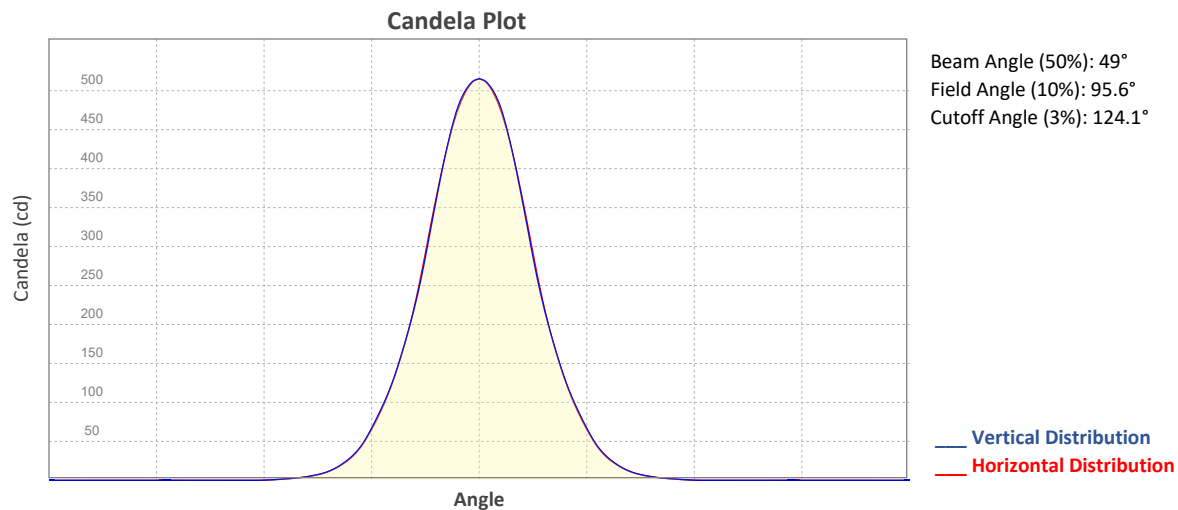
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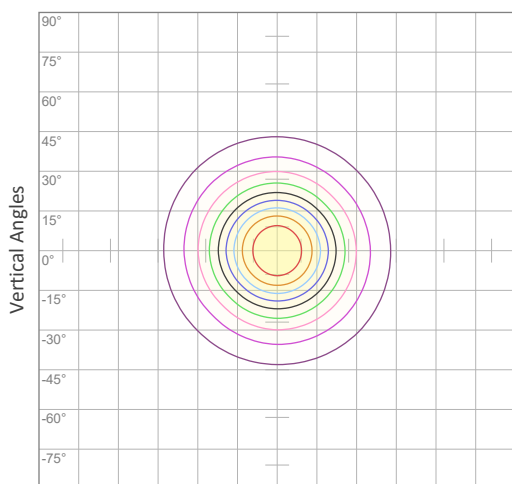


# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

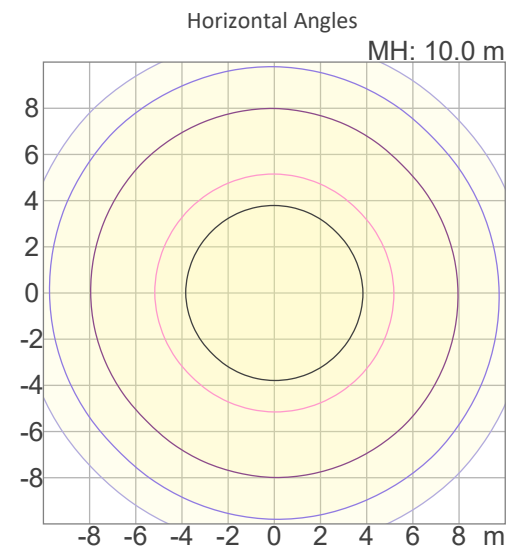


## ISO Diagrams



ISO Candela Diagram

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 515 cd



ISO Lux Diagram

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.15 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

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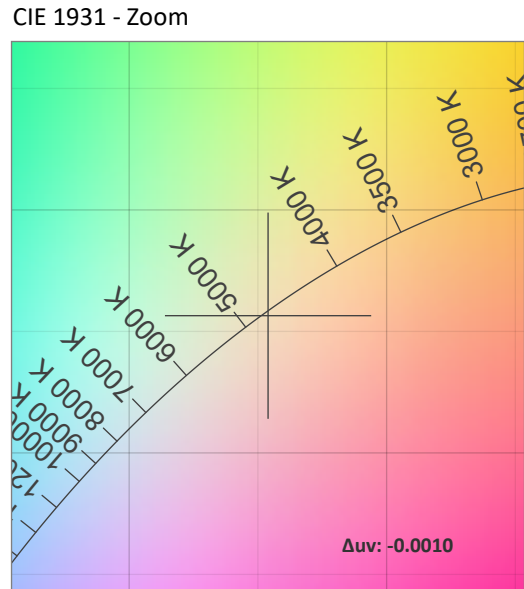
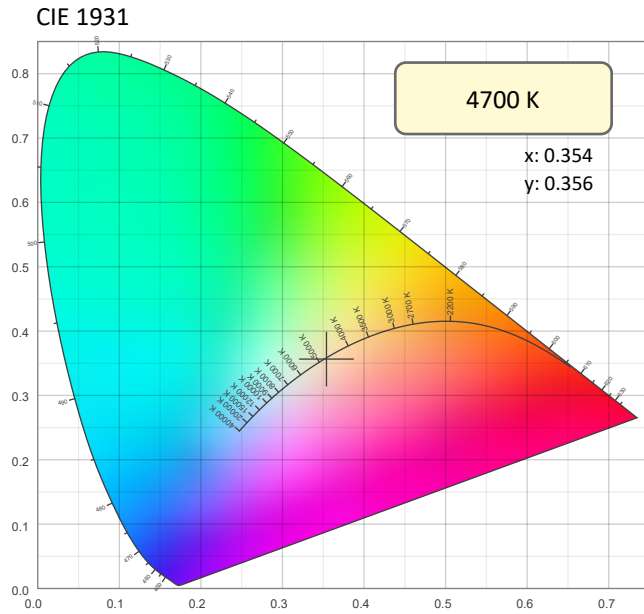
All product specifications, measurements and dimensions are subject to change without notice

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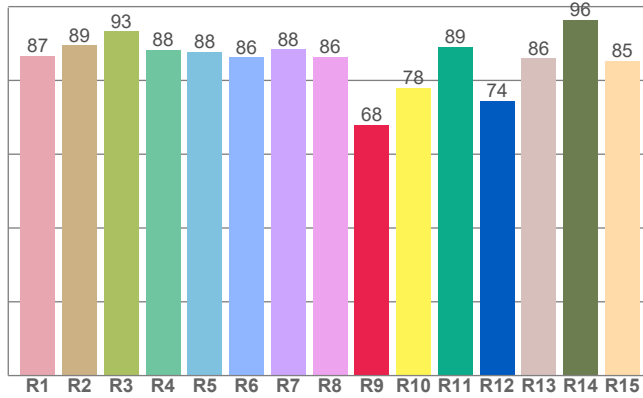
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 4500K

## Chromaticity



CRI: 88.3 (R1-R8)

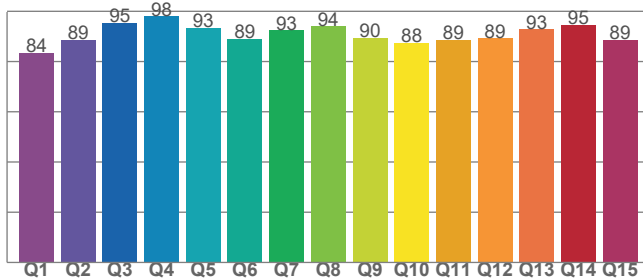


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4700 K	0.354	0.356

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0010	0.356	0.216

CQS: 90.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.3	68.0	90.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
95	87.0	98.1

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# Photometric & Chromaticity Report

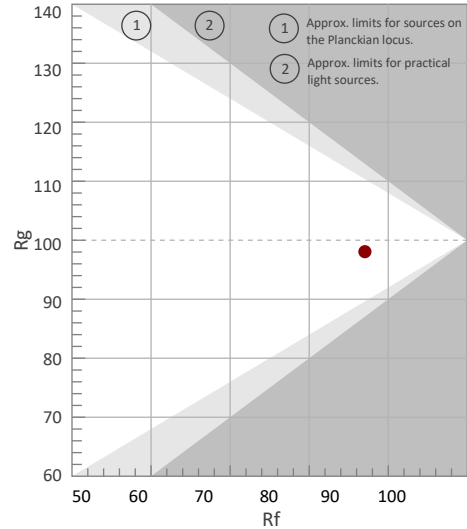
Logic AR111 Downlight M: Medium Filter Lens - 4500K

## TM-30 Details

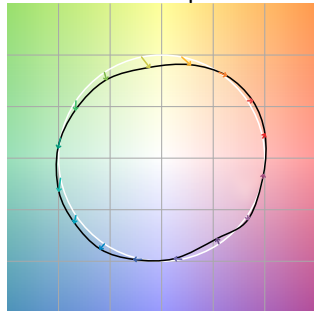
**Rf 87.0**  
Fidelity Index (Rg)

**Rg 98.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	89	3%	3%
2	91	4%	-3%
3	86	1%	-8%
4	82	-6%	-10%
5	83	-11%	-6%
6	89	-7%	2%
7	87	-5%	7%
8	85	1%	10%
9	84	4%	12%
10	88	5%	5%
11	88	6%	-1%
12	88	2%	-7%
13	90	-2%	-7%
14	90	-5%	1%
15	86	3%	-3%
16	91	0%	4%



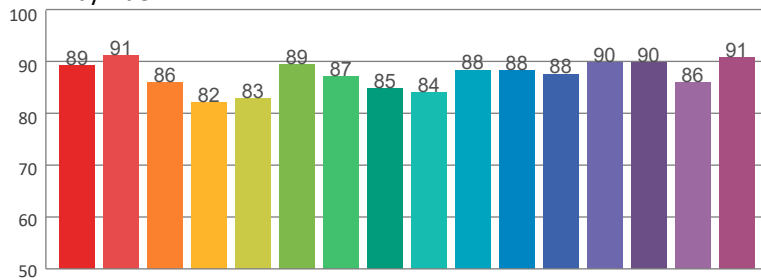
Color Vector Graphic



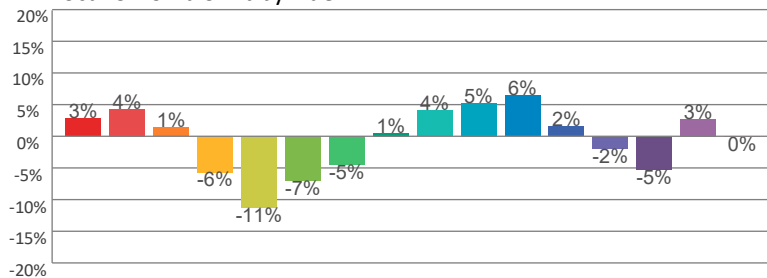
Color Distortion Graphic



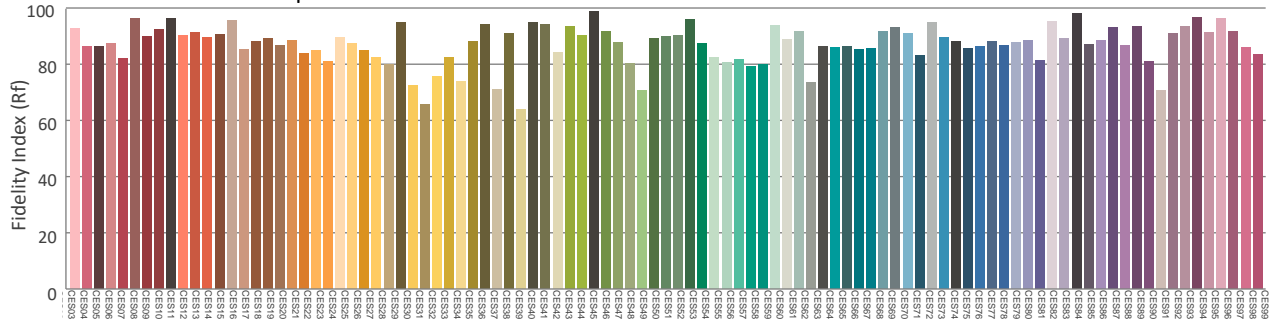
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

## Report Summary

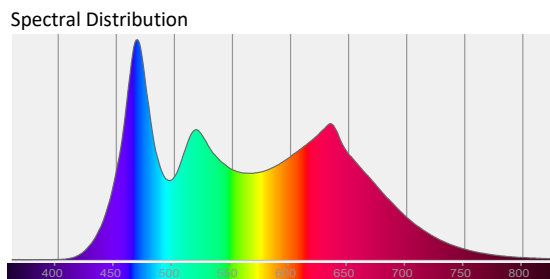
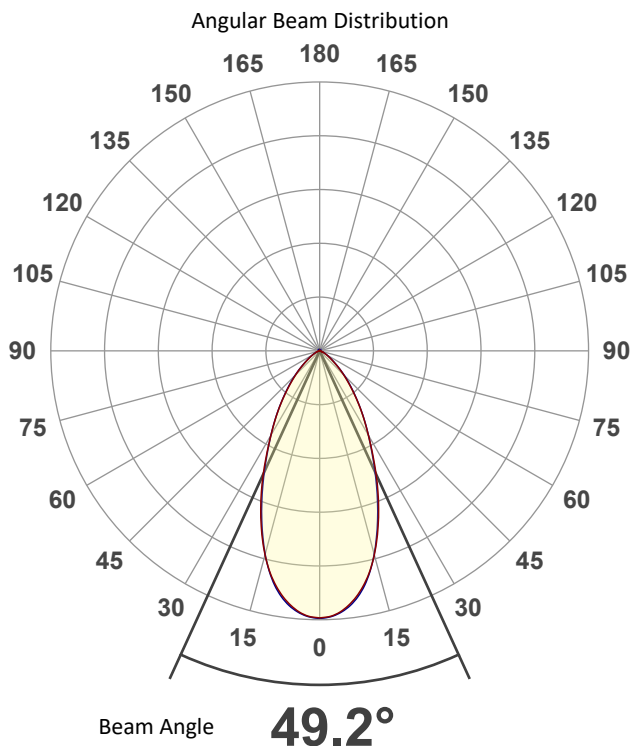
### Measurements

Fixture Output: 475 lm  
Fixture Peak: 544 cd  
Fixture Efficacy: 21 lm/W  
Intensity @ 5m: 22 lux  
Color Temperature: 5332 K  
CRI: 82.8      CRI R9 Value: 43.1  
CQS: 88.4  
TLCI: 87  
TM-30 Rf: 83.0  
TM-30 Rg: 97.9  
Beam Angle (50%): 49.2°  
Field Angle (10%): 95.8°  
Cutoff Angle (3%): 124.2°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 25.54 W  
Current: 0.214 A  
Power Factor: 0.9



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.336  
Y: 0.341

Light Quality  
CRI: 82.8

Color Temperature  
5332 K

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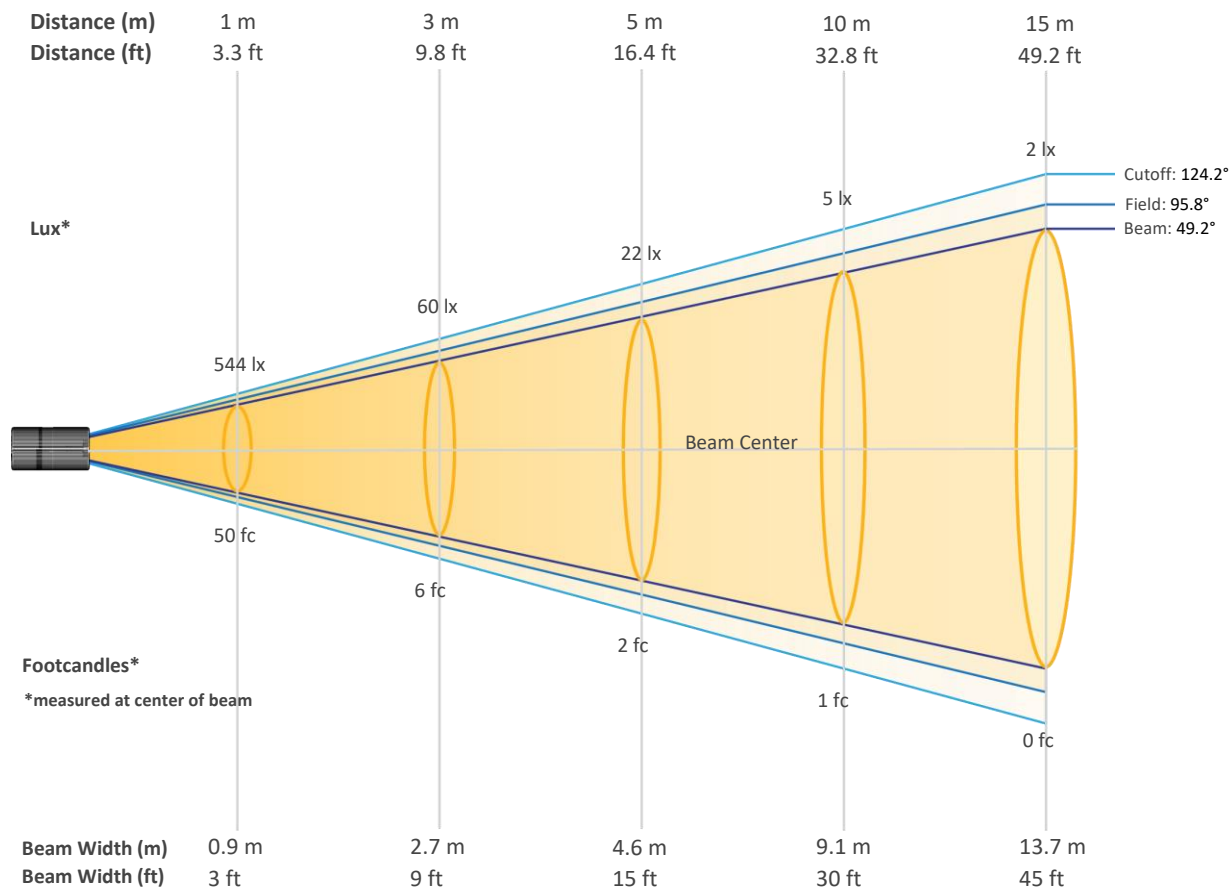
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	544	136	60	34	22	15	11	8	7	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	4	3	3	2	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	50	13	6	3	2	1	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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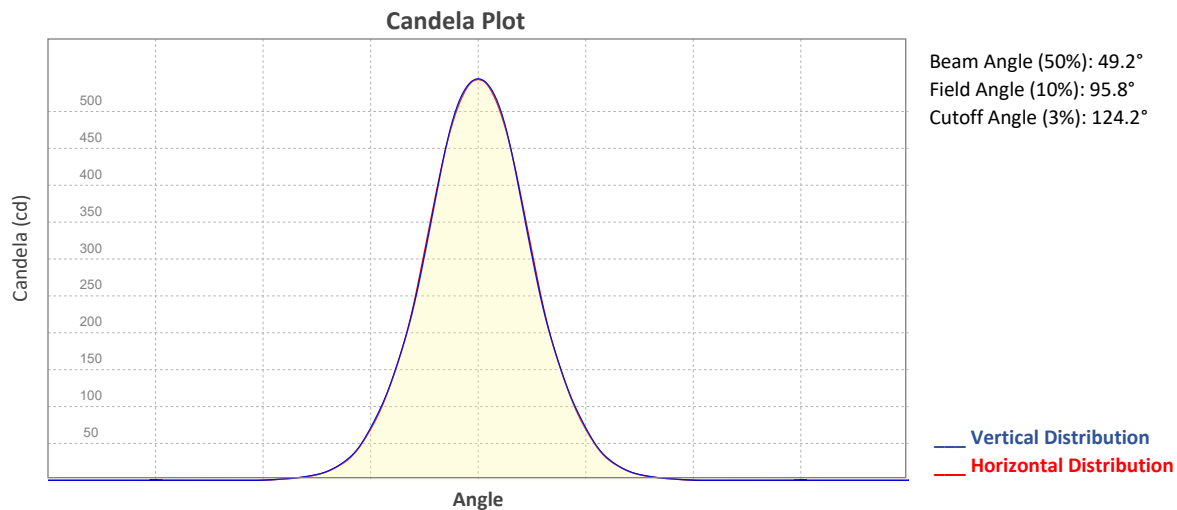
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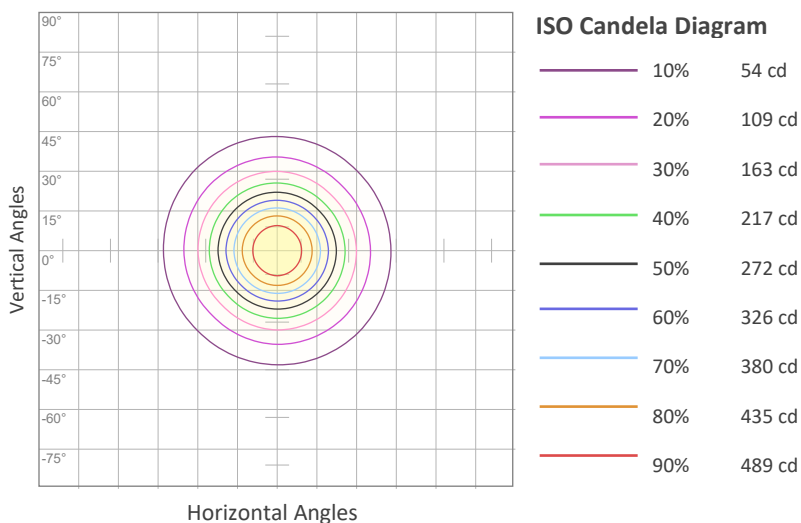
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# Photometric & Chromaticity Report

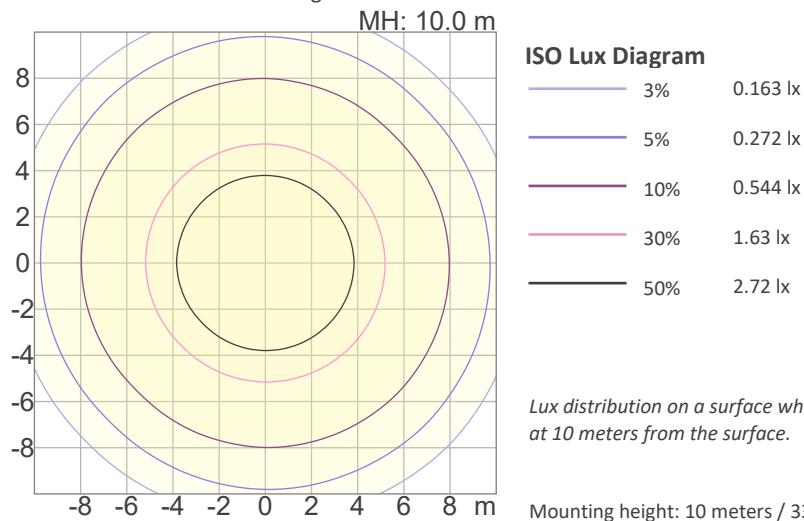
Logic AR111 Downlight M: Medium Filter Lens - 5000K



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 544 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.44 lx

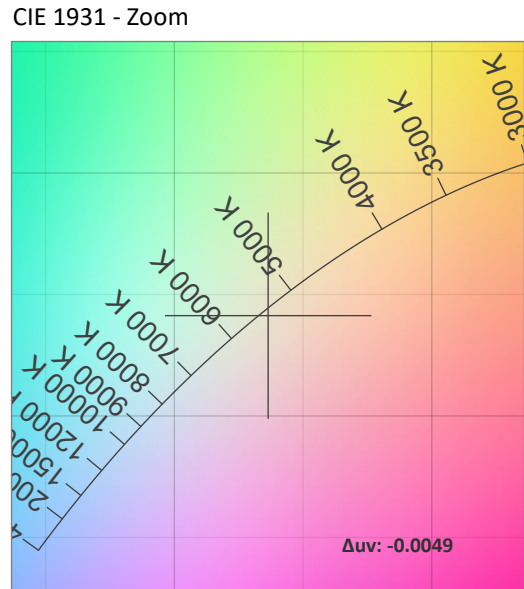
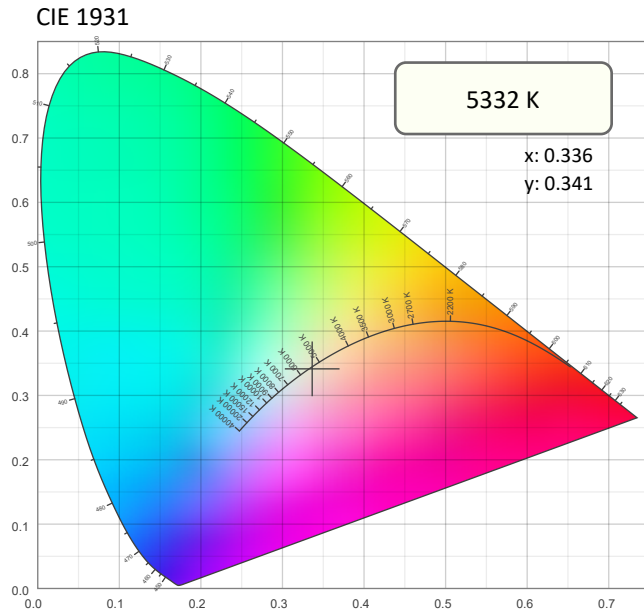
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

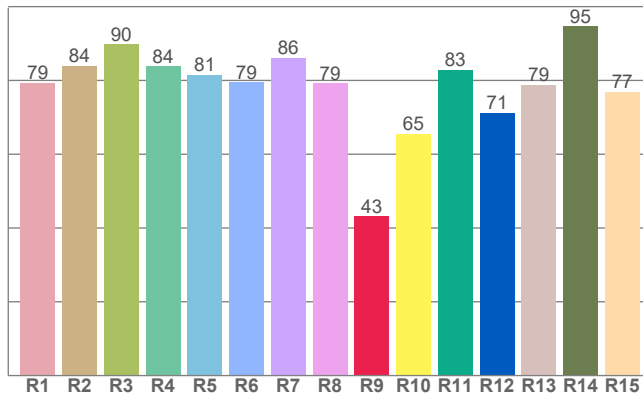
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5000K

## Chromaticity



CRI: 82.8 (R1-R8)

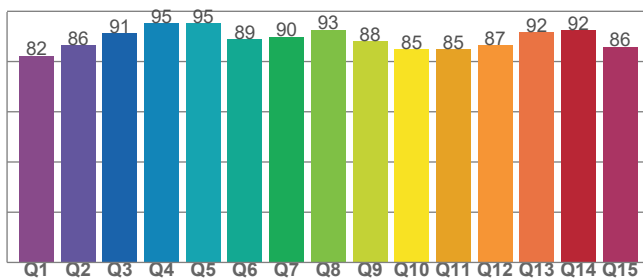


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5332 K	0.336	0.341

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0049	0.341	0.210

CQS: 88.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
82.8	43.1	88.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	83.0	97.9

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# Photometric & Chromaticity Report

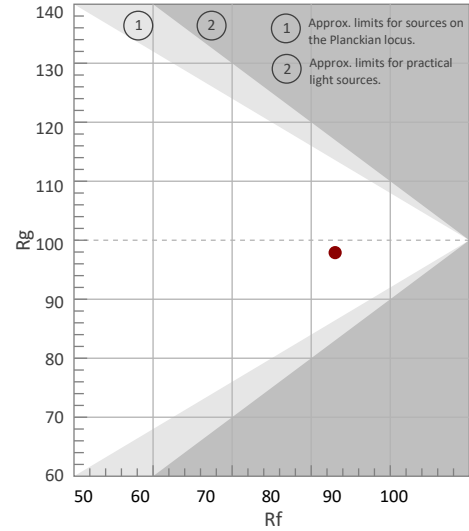
Logic AR111 Downlight M: Medium Filter Lens - 5000K

## TM-30 Details

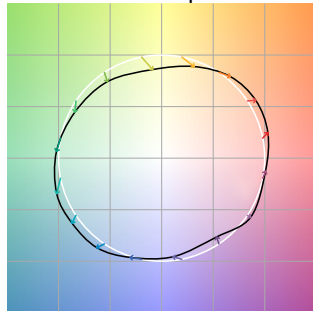
**Rf 83.0**  
Fidelity Index (Rg)

**Rg 97.9**  
Gammut Index (Rg)

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	84	6%	4%
2	87	7%	-4%
3	79	3%	-11%
4	76	-7%	-13%
5	78	-14%	-8%
6	86	-9%	3%
7	84	-5%	9%
8	78	1%	13%
9	83	7%	14%
10	86	7%	4%
11	85	7%	-4%
12	84	0%	-11%
13	88	-4%	-8%
14	87	-7%	2%
15	84	4%	0%
16	86	1%	7%



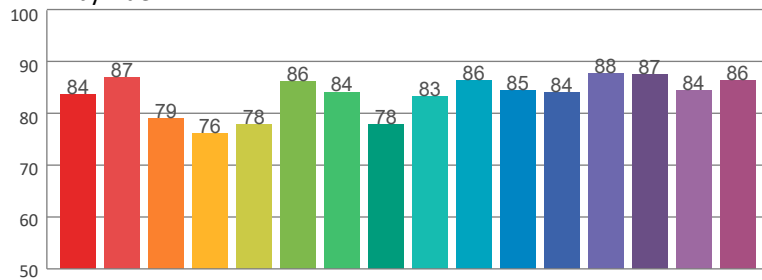
Color Vector Graphic



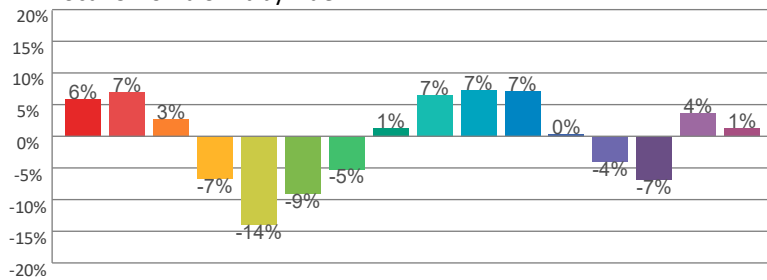
Color Distortion Graphic



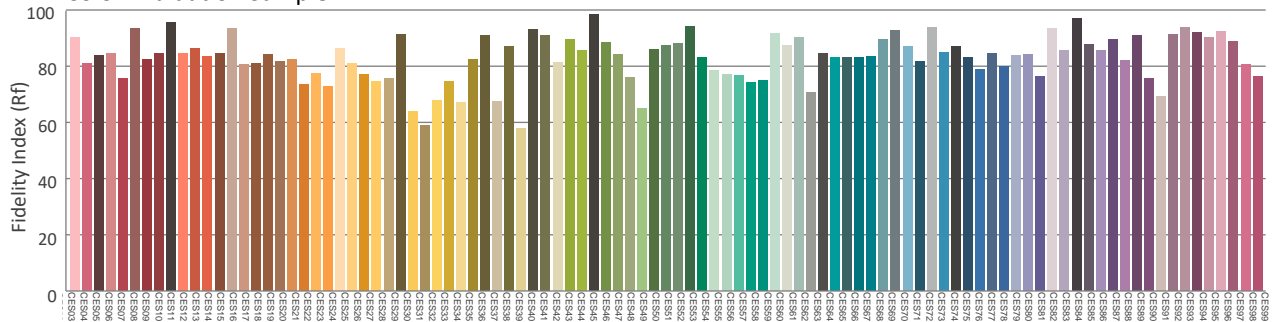
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

## Report Summary

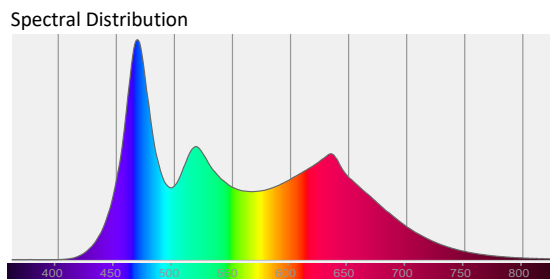
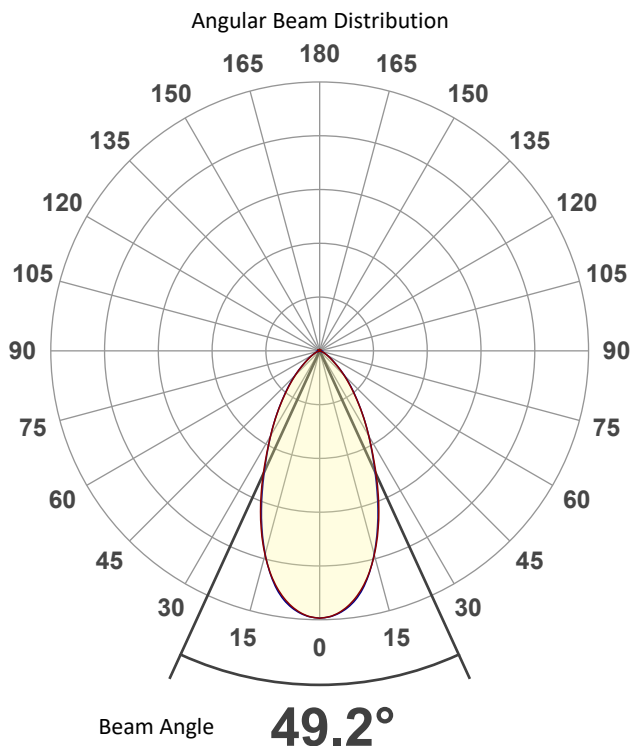
### Measurements

Fixture Output: 498 lm  
 Fixture Peak: 568 cd  
 Fixture Efficacy: 21 lm/W  
 Intensity @ 5m: 23 lux  
 Color Temperature: 6284 K  
 CRI: 78.9      CRI R9 Value: 27.6  
 CQS: 84.4  
 TLCI: 81  
 TM-30 Rf: 78.8  
 TM-30 Rg: 96.2  
 Beam Angle (50%): 49.2°  
 Field Angle (10%): 95.8°  
 Cutoff Angle (3%): 124.3°  
**Conditions**  
 AC Supply: 119 V, 60 Hz  
 Power: 26.2 W  
 Current: 0.220 A  
 Power Factor: 0.91



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):                       
 X: 0.317  
 Y: 0.326

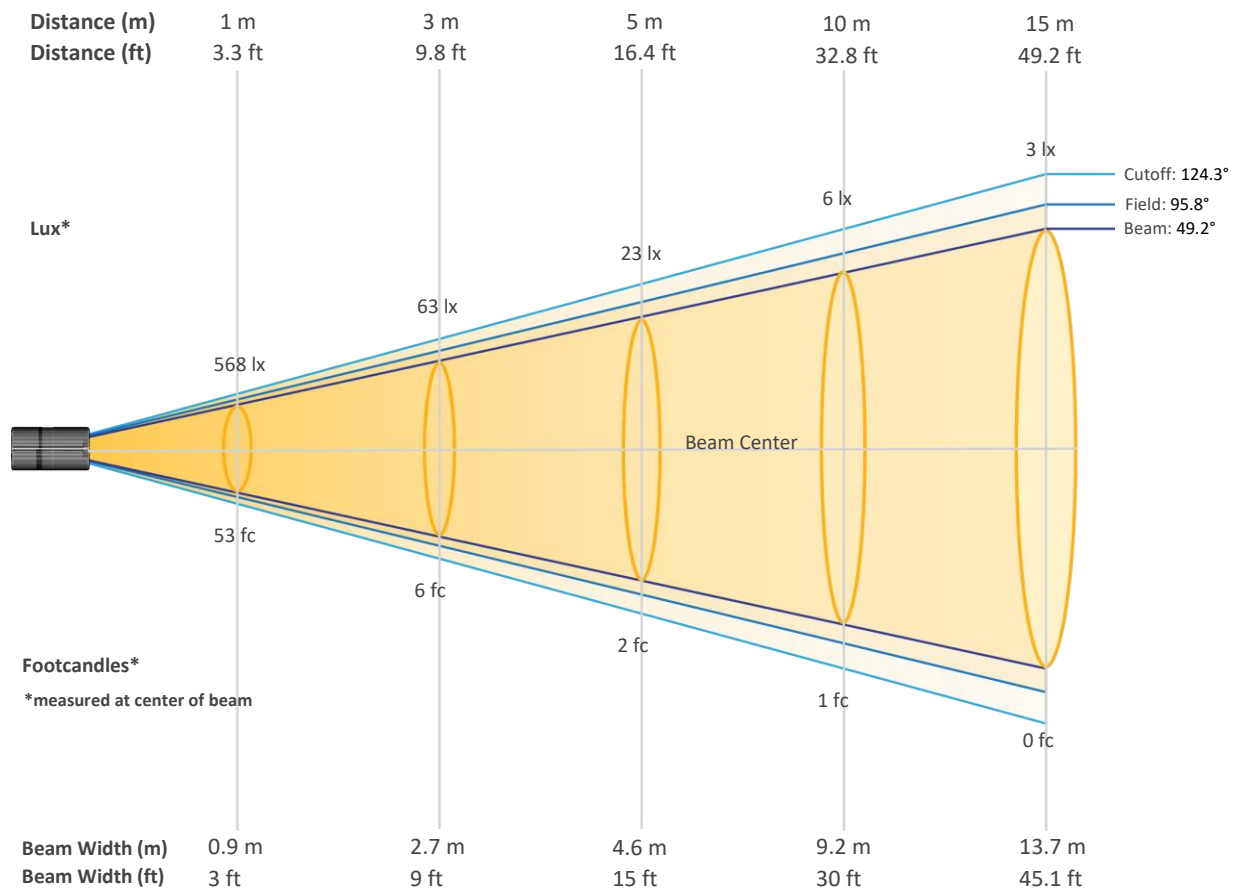
Light Quality                       
 CRI: 78.9

Color Temperature                       
 6284 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	568	142	63	35	23	16	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	53	13	6	3	2	1	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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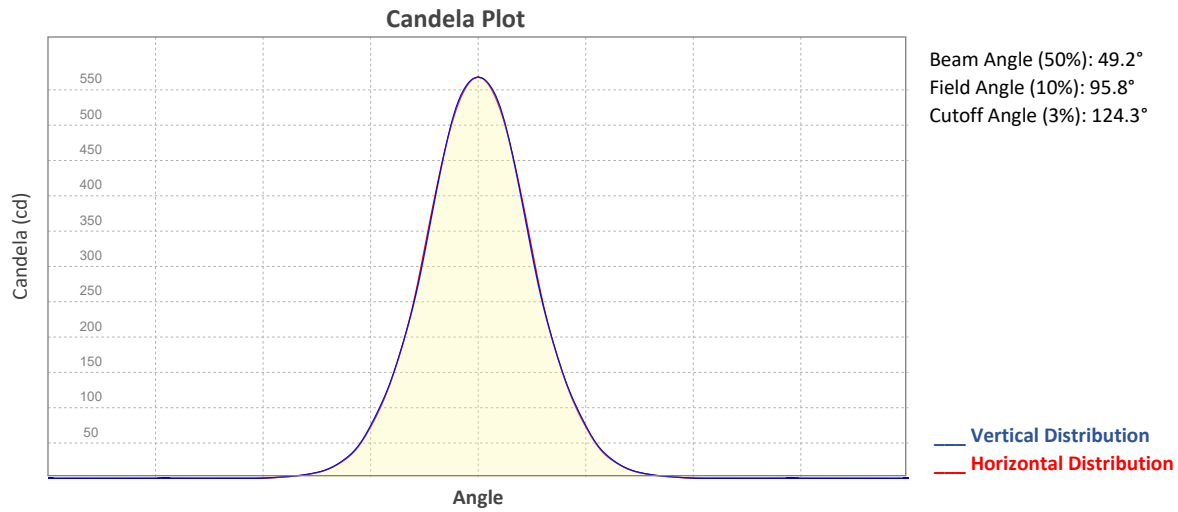
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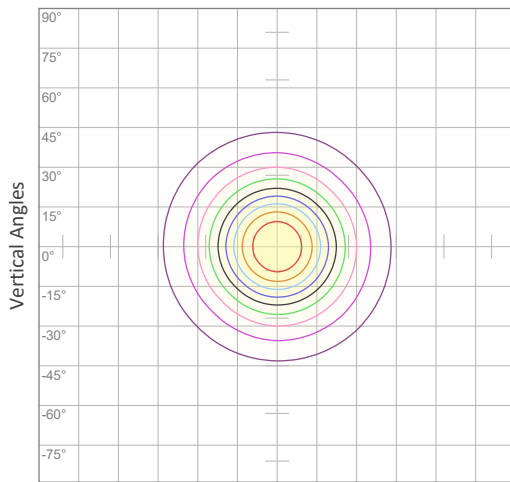
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K



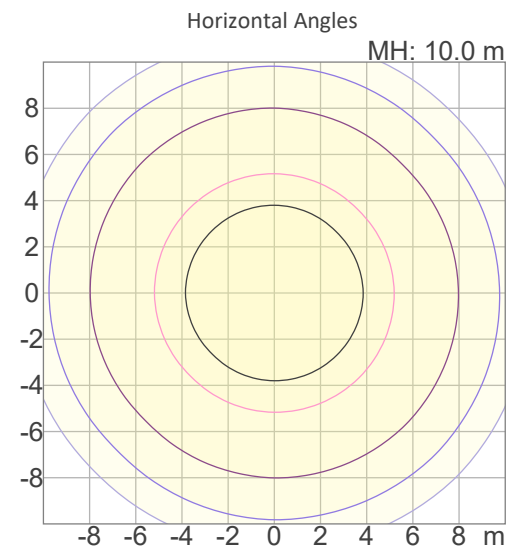
## ISO Diagrams



**ISO Candela Diagram**

10%	57 cd
20%	114 cd
30%	170 cd
40%	227 cd
50%	284 cd
60%	341 cd
70%	398 cd
80%	454 cd
90%	511 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 568 cd



**ISO Lux Diagram**

3%	0.170 lx
5%	0.284 lx
10%	0.568 lx
30%	1.70 lx
50%	2.84 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.68 lx

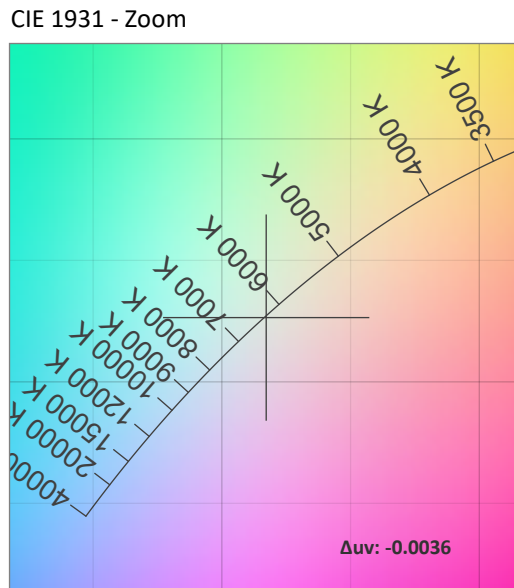
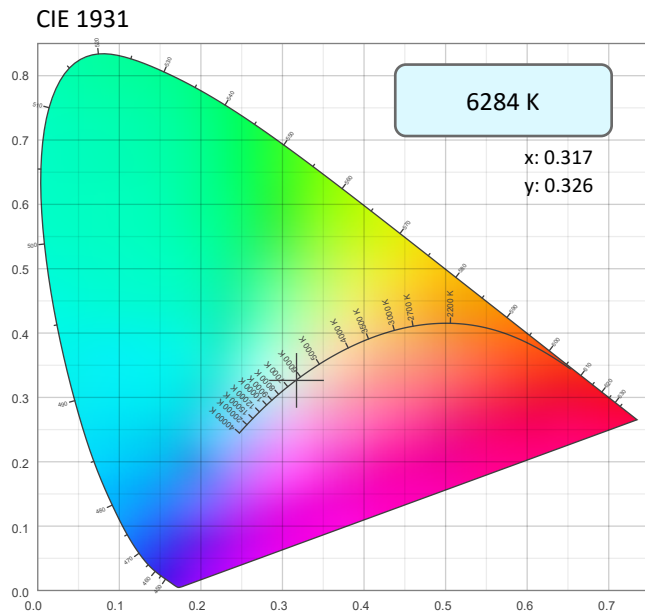
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

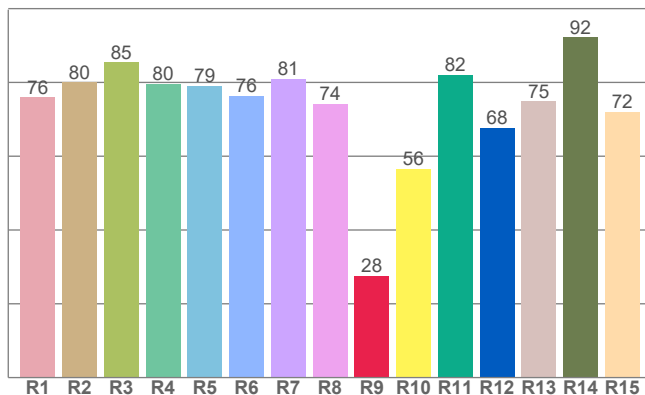
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 5600K

## Chromaticity



CRI: 78.9 (R1-R8)

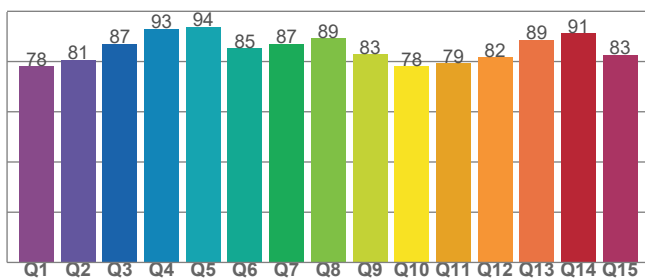


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6284 K	0.317	0.326

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0036	0.326	0.202

CQS: 84.4



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
78.9	27.6	84.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
81	78.8	96.2

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# Photometric & Chromaticity Report

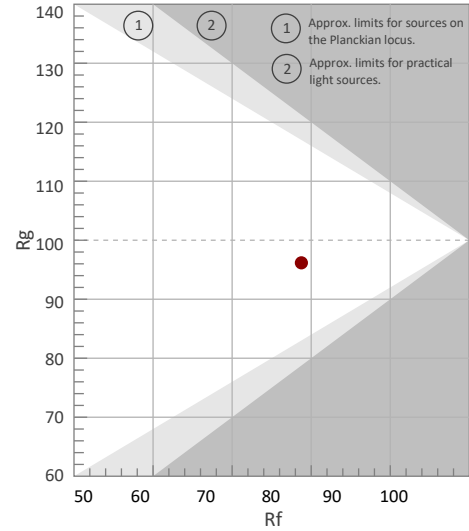
Logic AR111 Downlight M: Medium Filter Lens - 5600K

## TM-30 Details

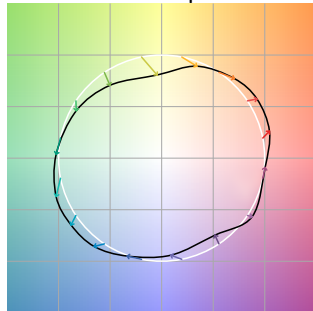
**Rf 78.8**  
Fidelity Index (Rg)

**Rg 96.2**  
Gammut Index (Rg)

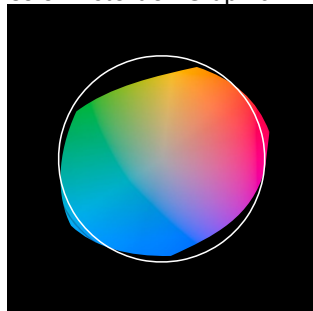
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	8%	5%
2	85	9%	-4%
3	73	3%	-16%
4	72	-6%	-16%
5	66	-20%	-11%
6	81	-13%	2%
7	86	-6%	8%
8	73	1%	16%
9	80	8%	16%
10	83	9%	5%
11	81	8%	-7%
12	79	0%	-14%
13	84	-6%	-10%
14	84	-9%	1%
15	83	4%	2%
16	82	0%	11%



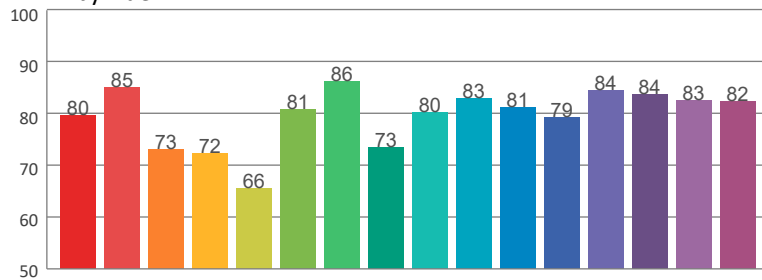
Color Vector Graphic



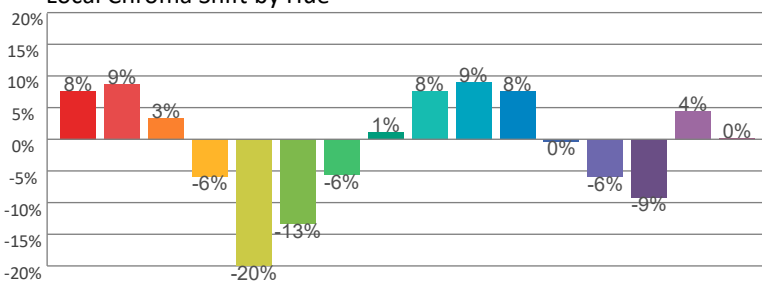
Color Distortion Graphic



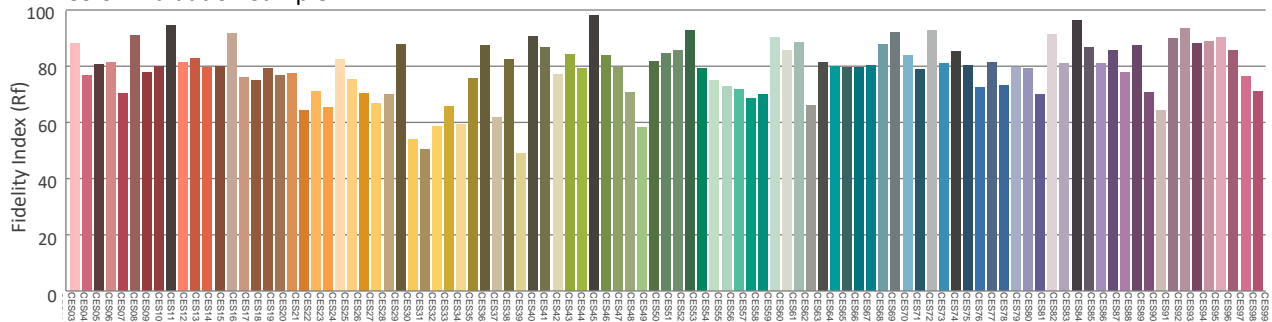
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

## Report Summary

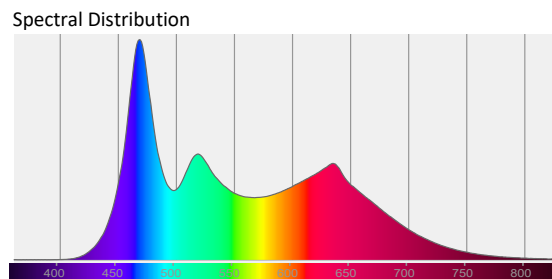
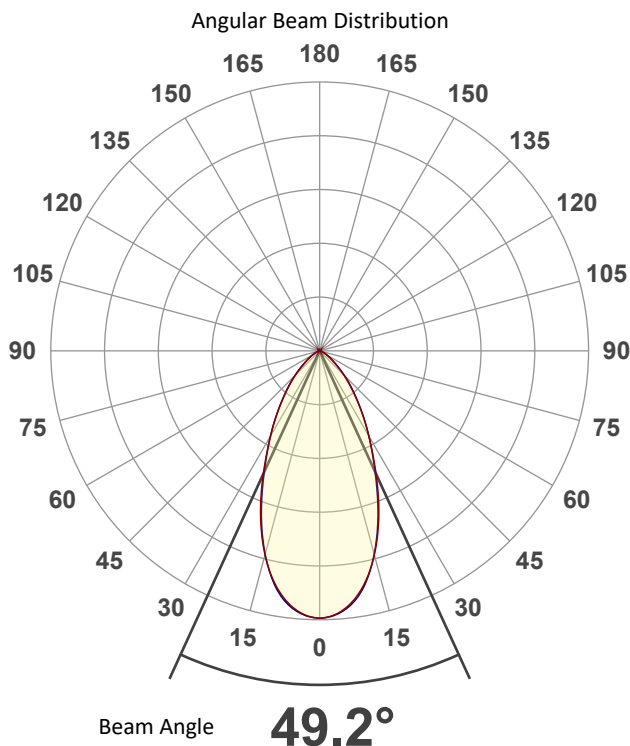
### Measurements

Fixture Output: 504 lm  
 Fixture Peak: 575 cd  
 Fixture Efficacy: 21 lm/W  
 Intensity @ 5m: 23 lux  
 Color Temperature: 6749 K  
 CRI: 77.2      CRI R9 Value: 21.3  
 CQS: 82.9  
 TLCI: 79  
 TM-30 Rf: 77.0  
 TM-30 Rg: 95.6  
 Beam Angle (50%): 49.2°  
 Field Angle (10%): 95.8°  
 Cutoff Angle (3%): 124.2°  
**Conditions**  
 AC Supply: 119 V, 60 Hz  
 Power: 26.44 W  
 Current: 0.222 A  
 Power Factor: 0.91



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):   
 X: 0.310  
 Y: 0.319

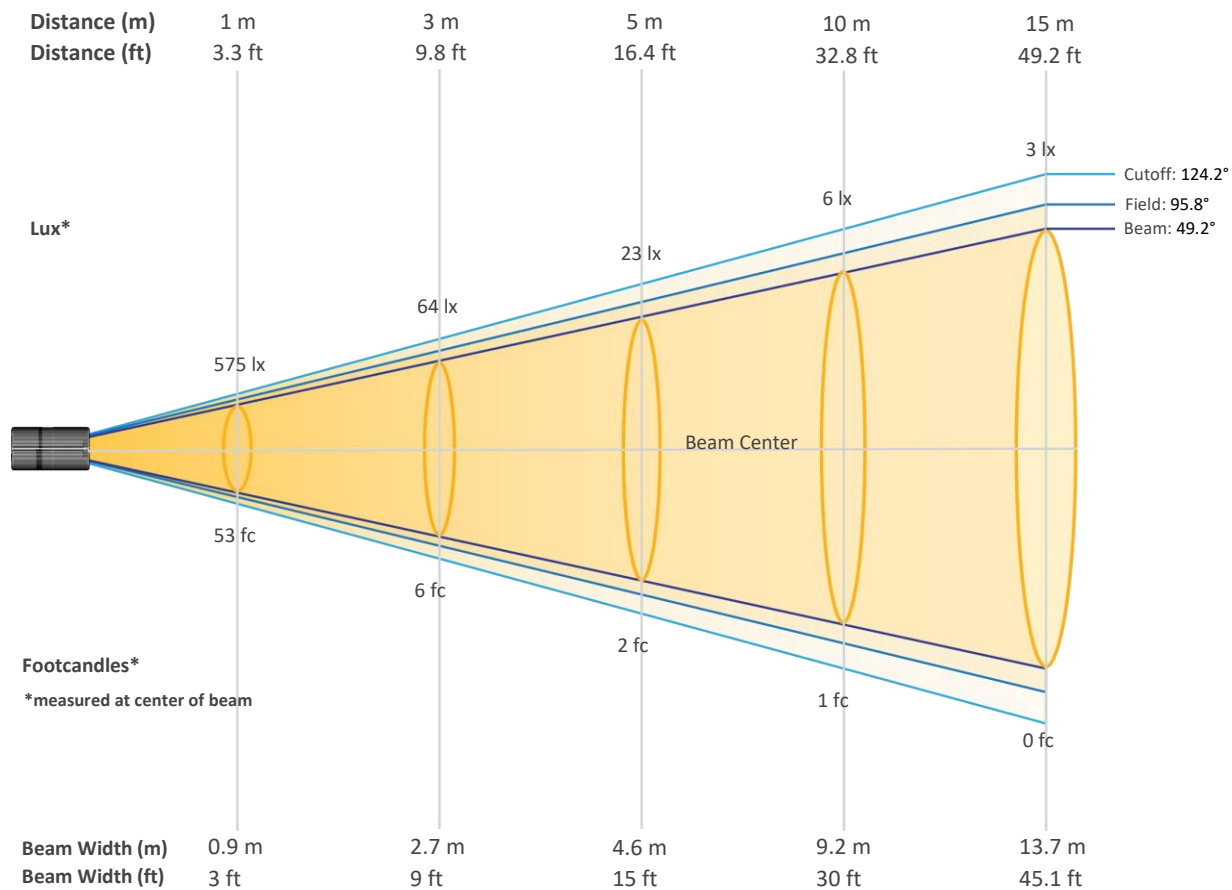
Light Quality   
 CRI: 77.2

Color Temperature   
 6749 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	575	144	64	36	23	16	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	53	13	6	3	2	1	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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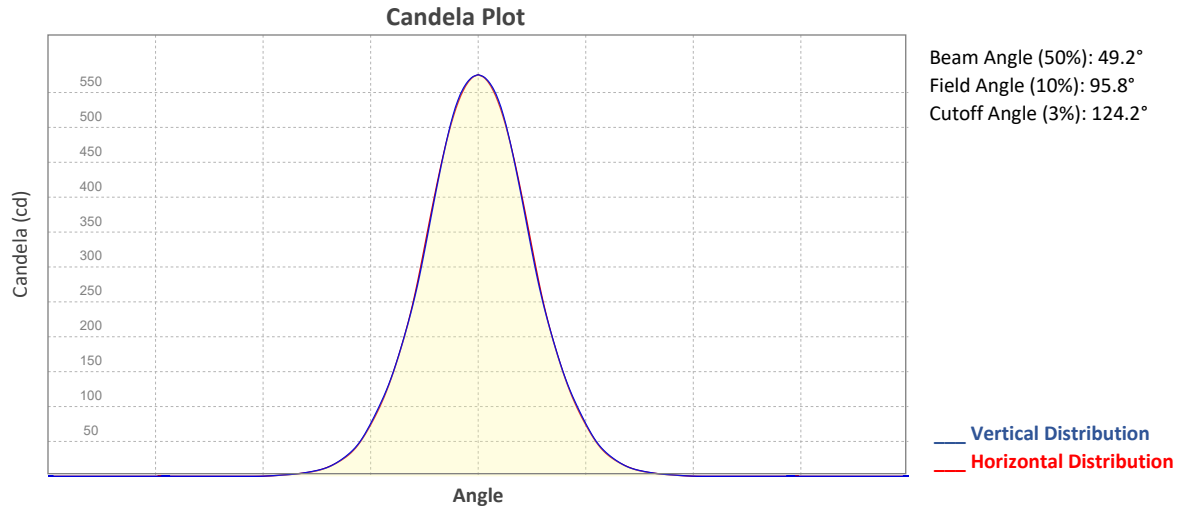
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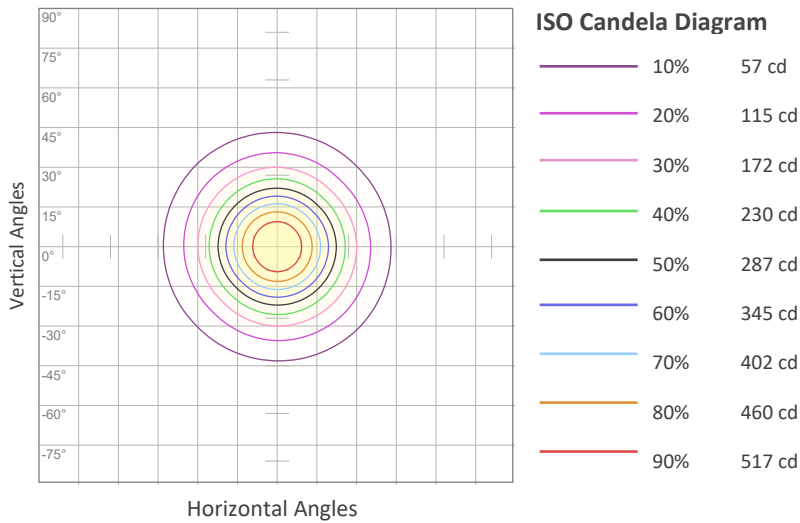
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# Photometric & Chromaticity Report

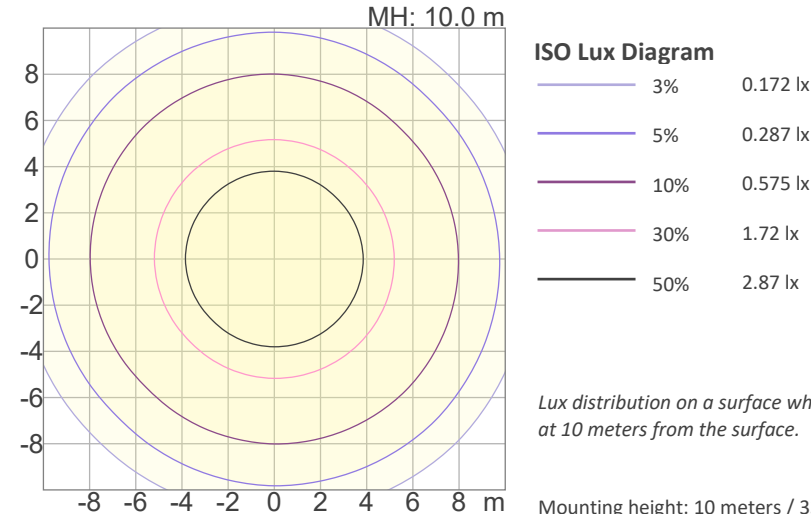
Logic AR111 Downlight M: Medium Filter Lens - 6000K



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 575 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.75 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

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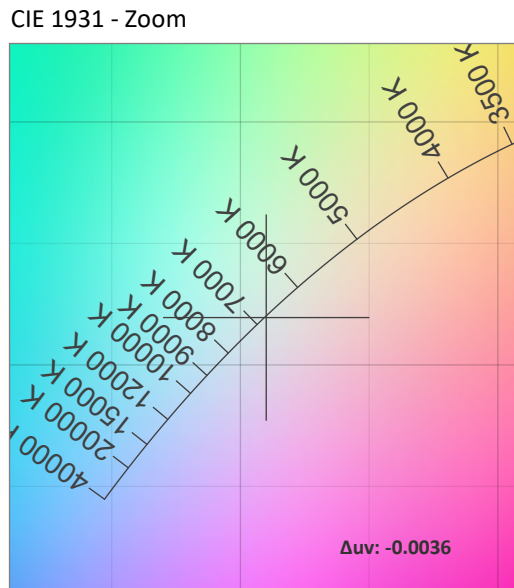
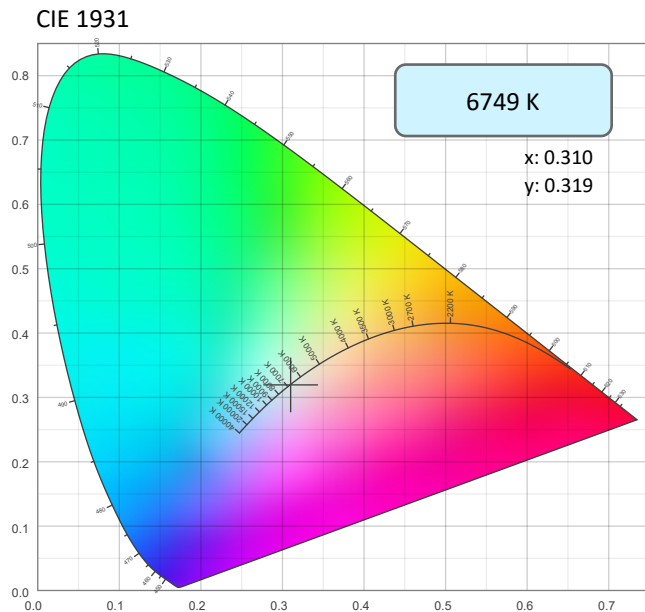
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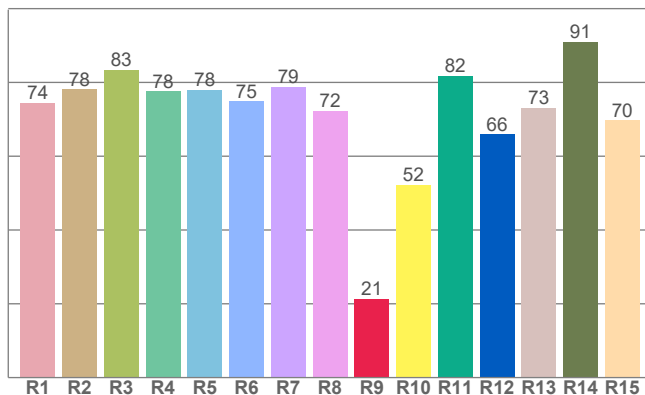
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6000K

## Chromaticity



CRI: 77.2 (R1-R8)

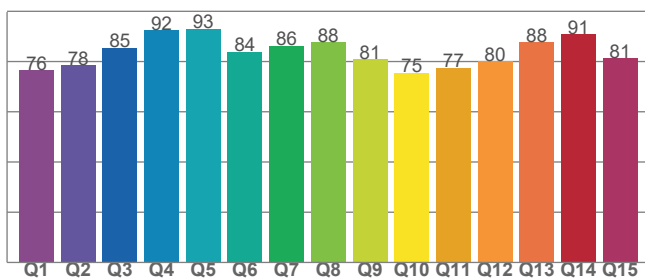


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6749 K	0.310	0.319

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0036	0.319	0.200

CQS: 82.9



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
77.2	21.3	82.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
79	77.0	95.6

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# Photometric & Chromaticity Report

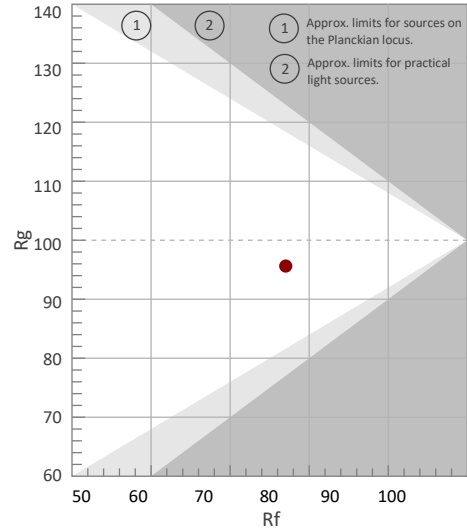
Logic AR111 Downlight M: Medium Filter Lens - 6000K

## TM-30 Details

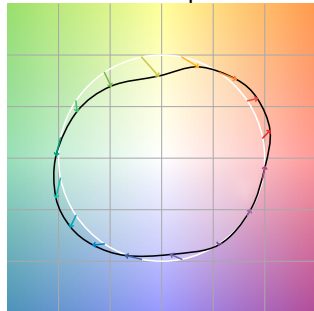
**Rf 77.0**  
Fidelity Index (Rg)

**Rg 95.6**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	8%	6%
2	82	9%	-3%
3	73	4%	-17%
4	70	-6%	-18%
5	63	-21%	-13%
6	79	-15%	2%
7	85	-7%	8%
8	72	1%	17%
9	79	8%	17%
10	82	11%	6%
11	79	7%	-8%
12	77	-1%	-16%
13	83	-7%	-10%
14	75	1%	-1%
15	85	0%	6%
16	81	0%	12%



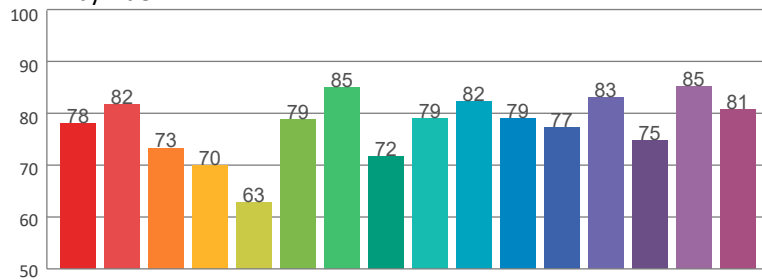
Color Vector Graphic



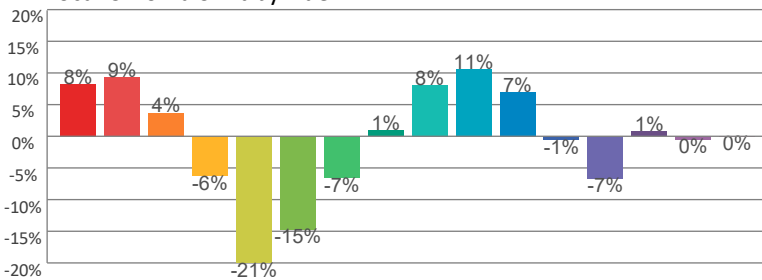
Color Distortion Graphic



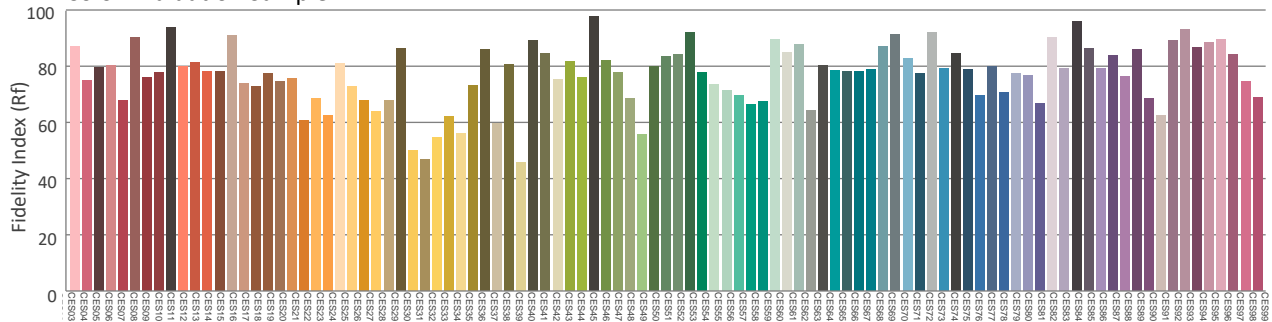
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

## Report Summary

### Measurements

Fixture Output: 508 lm  
Fixture Peak: 580 cd  
Fixture Efficacy: 21 lm/W  
Intensity @ 5m: 23 lux  
Color Temperature: 7476 K  
CRI: 74.2      CRI R9 Value: 10.8  
CQS: 81.0  
TLCI: 76  
TM-30 Rf: 74.6  
TM-30 Rg: 94.1  
Beam Angle (50%): 49.3°  
Field Angle (10%): 95.9°  
Cutoff Angle (3%): 124.2°

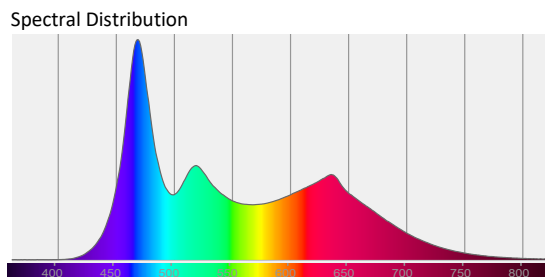
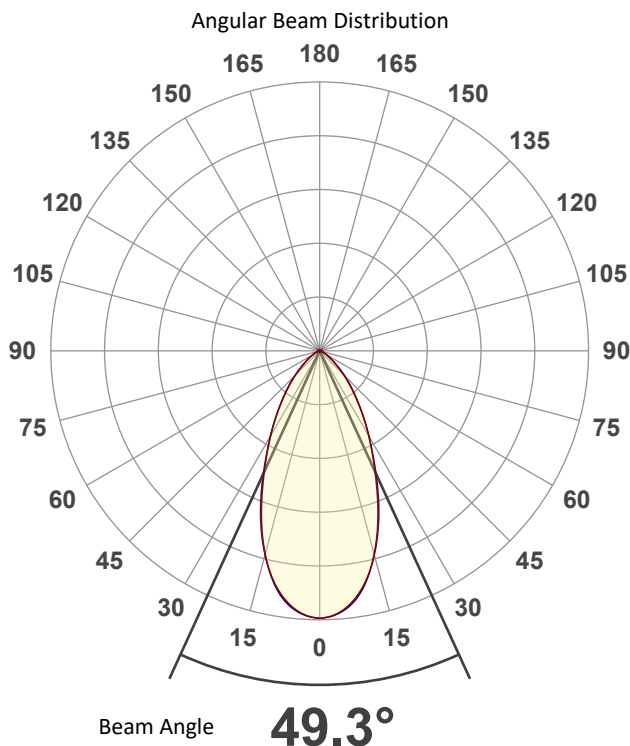
### Conditions

AC Supply: 119 V, 60 Hz  
Power: 26.64 W  
Current: 0.224 A  
Power Factor: 0.91

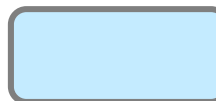


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.301  
Y: 0.309



Light Quality  
CRI: 74.2

Color Temperature  
7476 K

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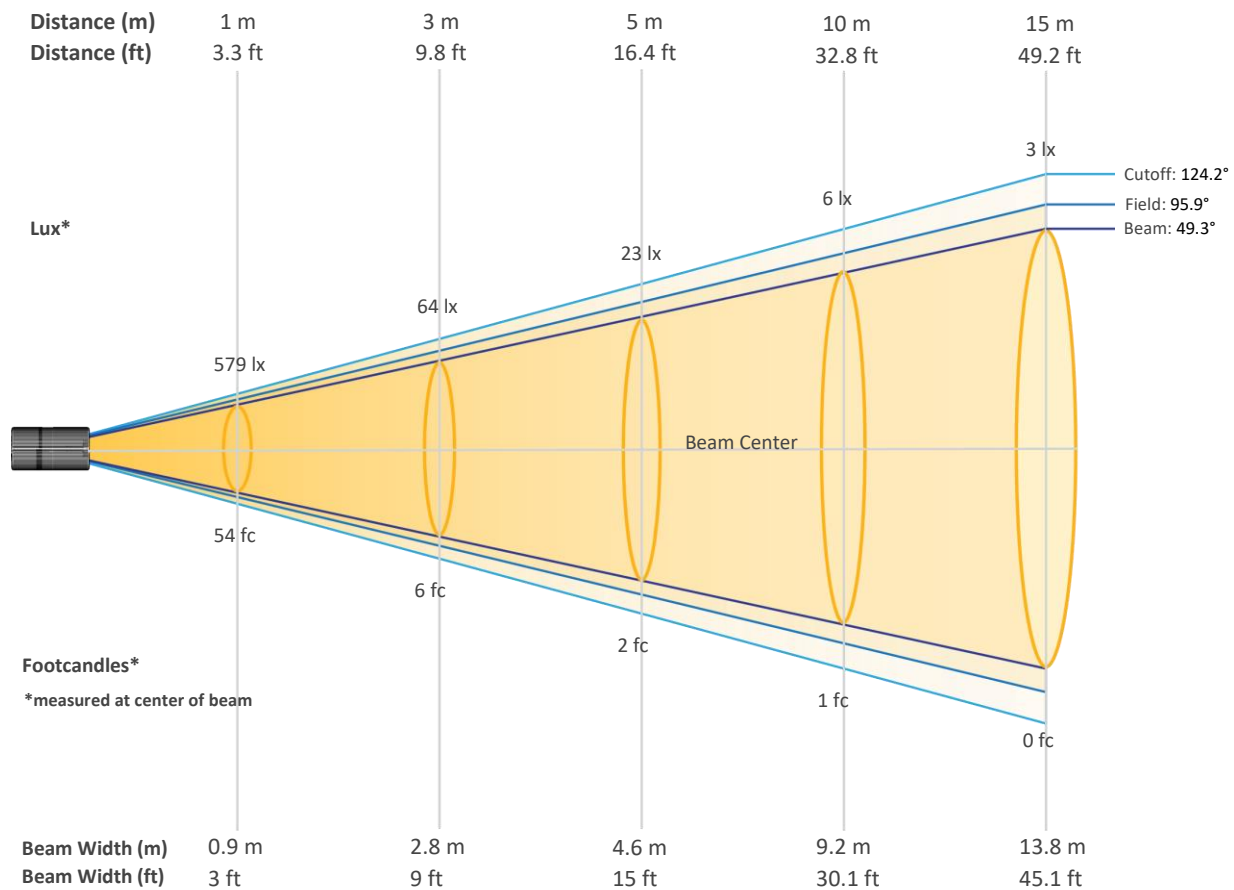
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	579	145	64	36	23	16	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	3	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	54	13	6	3	2	1	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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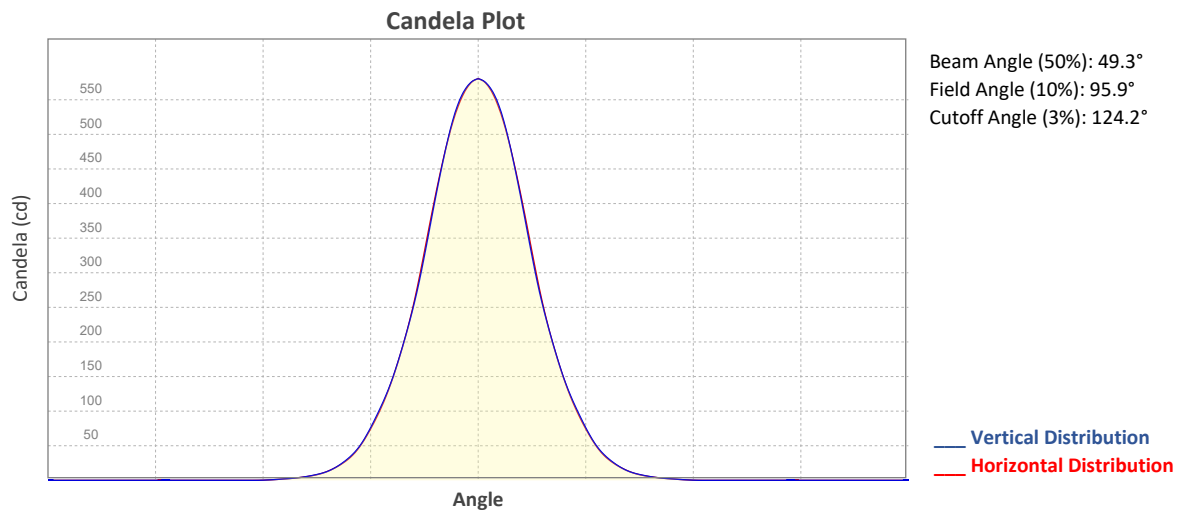
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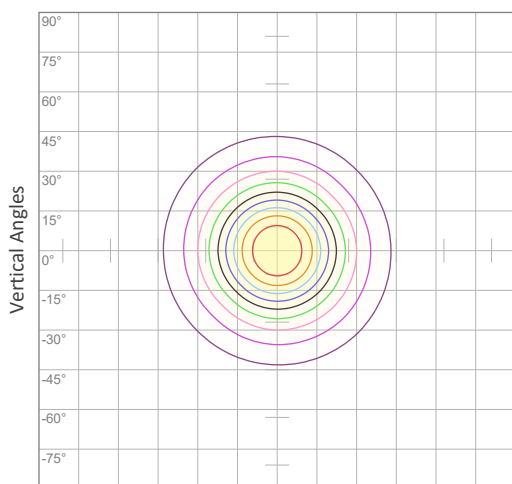
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K



## ISO Diagrams

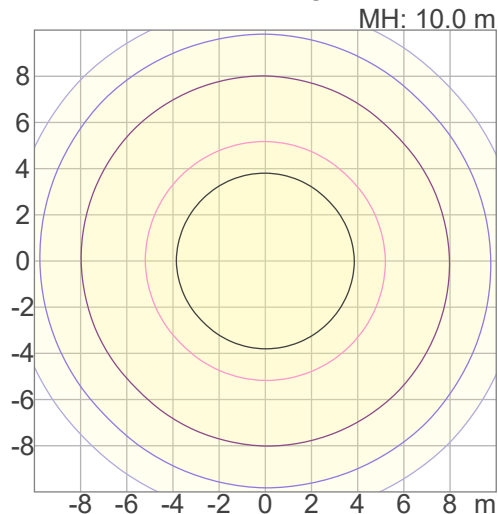


ISO Candela Diagram

10%	58 cd
20%	116 cd
30%	174 cd
40%	231 cd
50%	289 cd
60%	347 cd
70%	405 cd
80%	463 cd
90%	521 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 579 cd

Horizontal Angles



ISO Lux Diagram

3%	0.174 lx
5%	0.289 lx
10%	0.579 lx
30%	1.74 lx
50%	2.89 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.79 lx

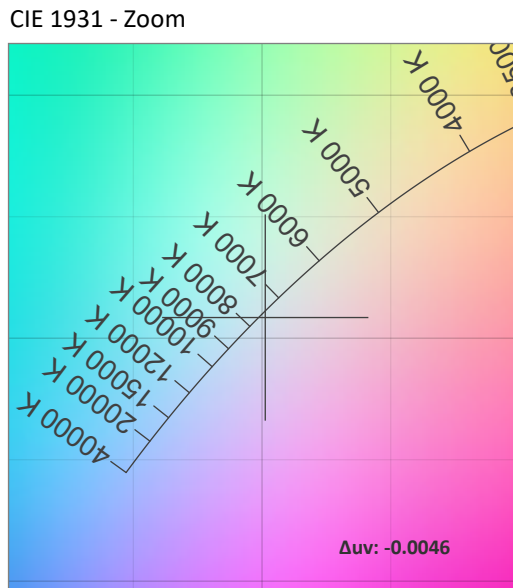
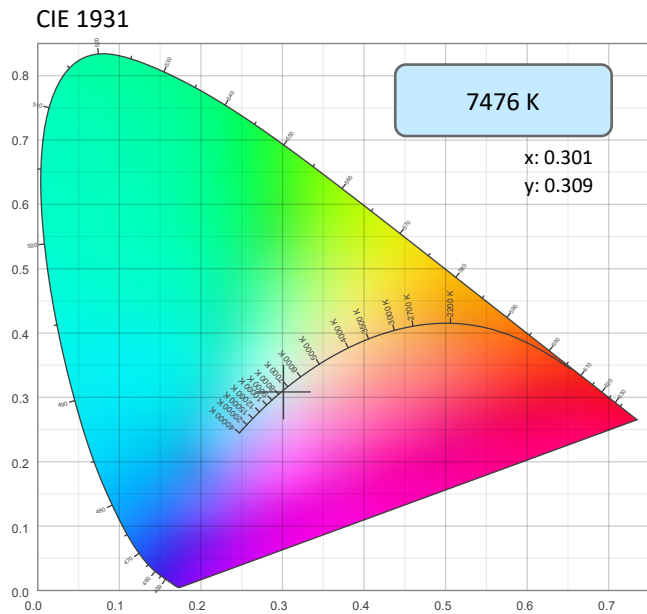
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

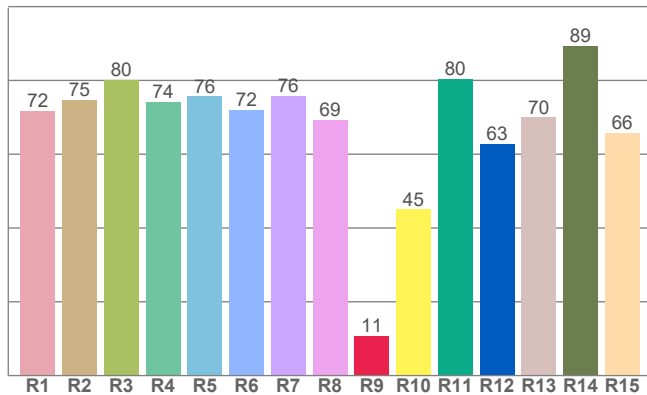
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 6500K

## Chromaticity



CRI: 74.2 (R1-R8)

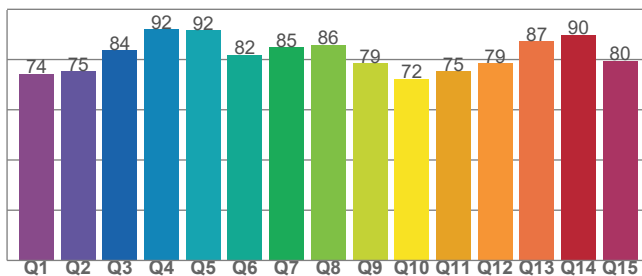


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7476 K	0.301	0.309

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0046	0.309	0.198

CQS: 81.0



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.2	10.8	81.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
76	74.6	94.1

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# Photometric & Chromaticity Report

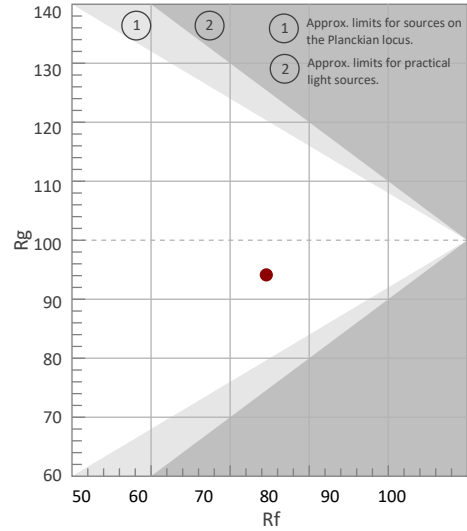
Logic AR111 Downlight M: Medium Filter Lens - 6500K

## TM-30 Details

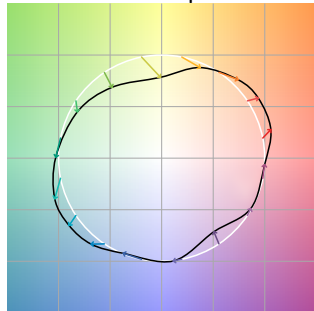
**Rf 74.6**  
Fidelity Index (Rg)

**Rg 94.1**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	76	9%	7%
2	80	10%	-4%
3	71	4%	-19%
4	67	-7%	-19%
5	59	-23%	-14%
6	76	-16%	2%
7	85	-7%	8%
8	69	1%	19%
9	77	9%	18%
10	83	11%	4%
11	73	7%	-11%
12	70	-2%	-19%
13	81	0%	-8%
14	79	-13%	2%
15	85	-1%	7%
16	76	-1%	13%



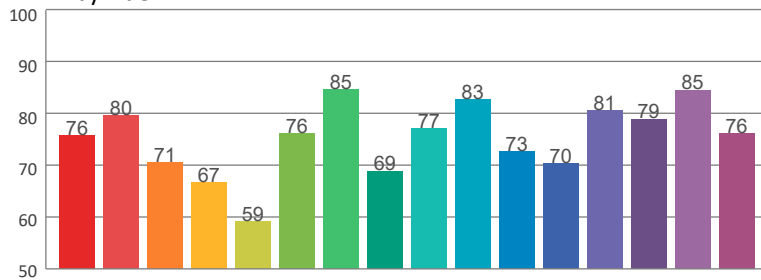
Color Vector Graphic



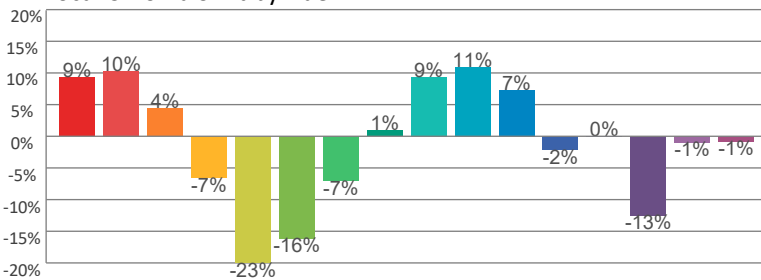
Color Distortion Graphic



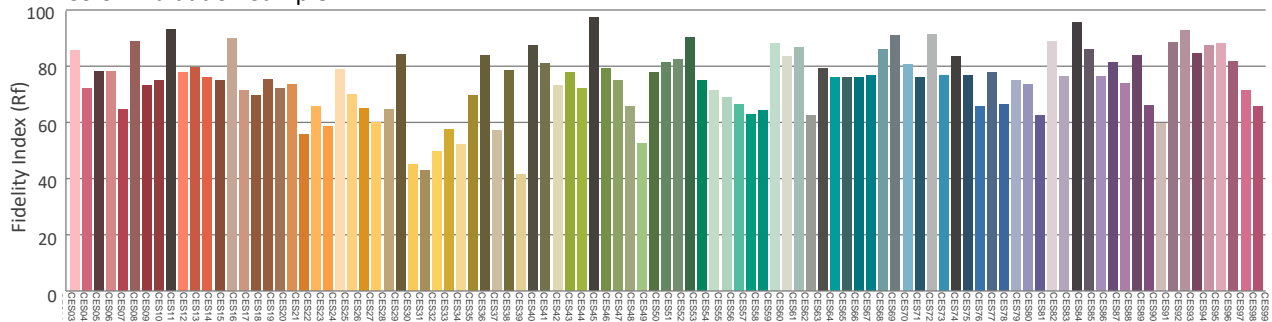
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

## Report Summary

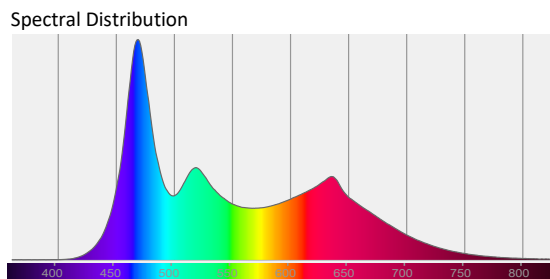
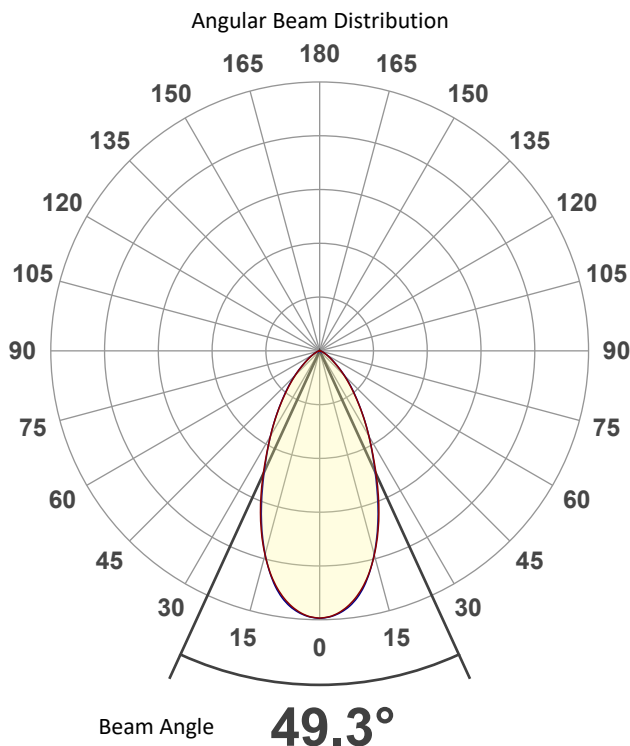
### Measurements

Fixture Output: 522 lm  
Fixture Peak: 594 cd  
Fixture Efficacy: 21 lm/W  
Intensity @ 5m: 24 lux  
Color Temperature: 7924 K  
CRI: 72.9      CRI R9 Value: 4.0  
CQS: 79.6  
TLCI: 74  
TM-30 Rf: 73.3  
TM-30 Rg: 93.6  
Beam Angle (50%): 49.3°  
Field Angle (10%): 95.9°  
Cutoff Angle (3%): 124.3°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 27.14 W  
Current: 0.228 A  
Power Factor: 0.92



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.296  
Y: 0.305

Light Quality  
CRI: 72.9

Color Temperature  
7924 K

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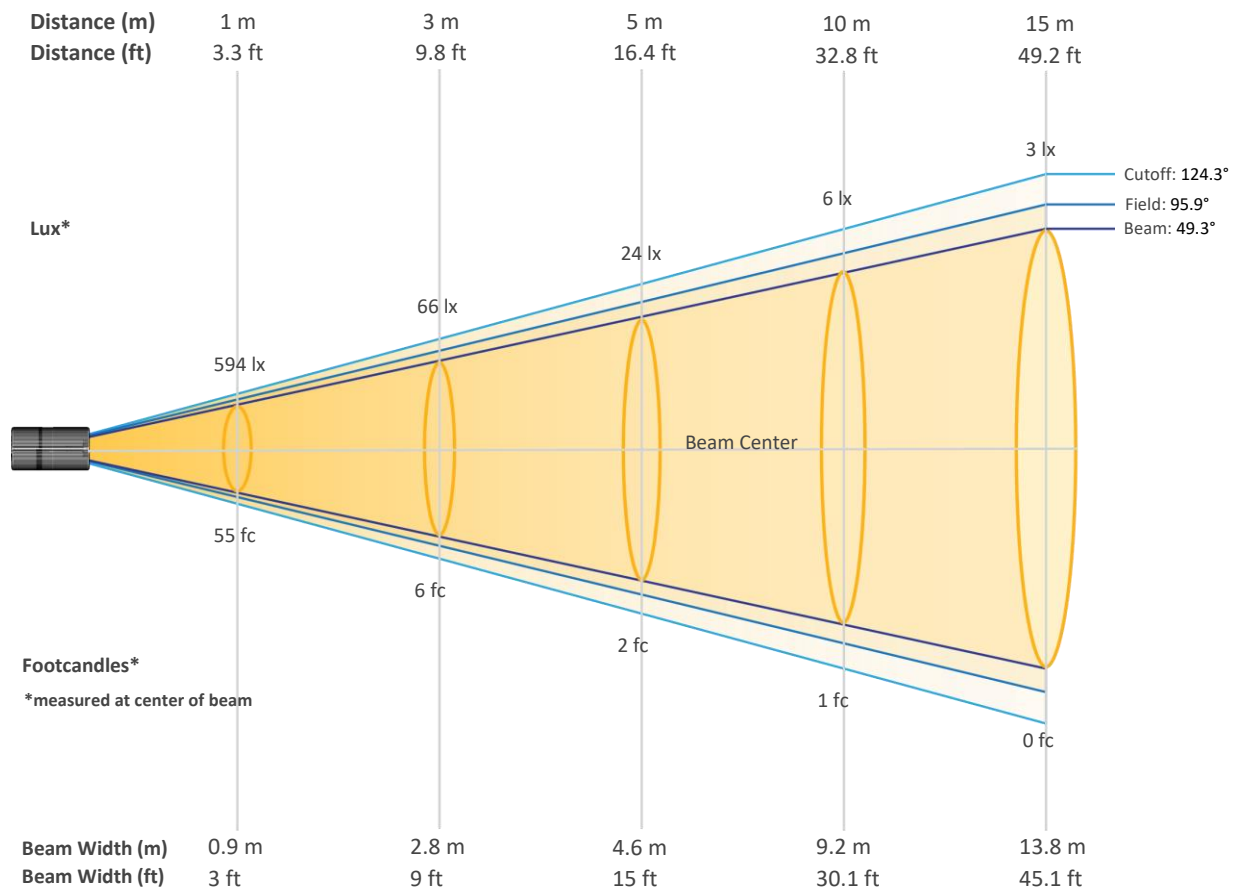
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	594	149	66	37	24	17	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	55	14	6	3	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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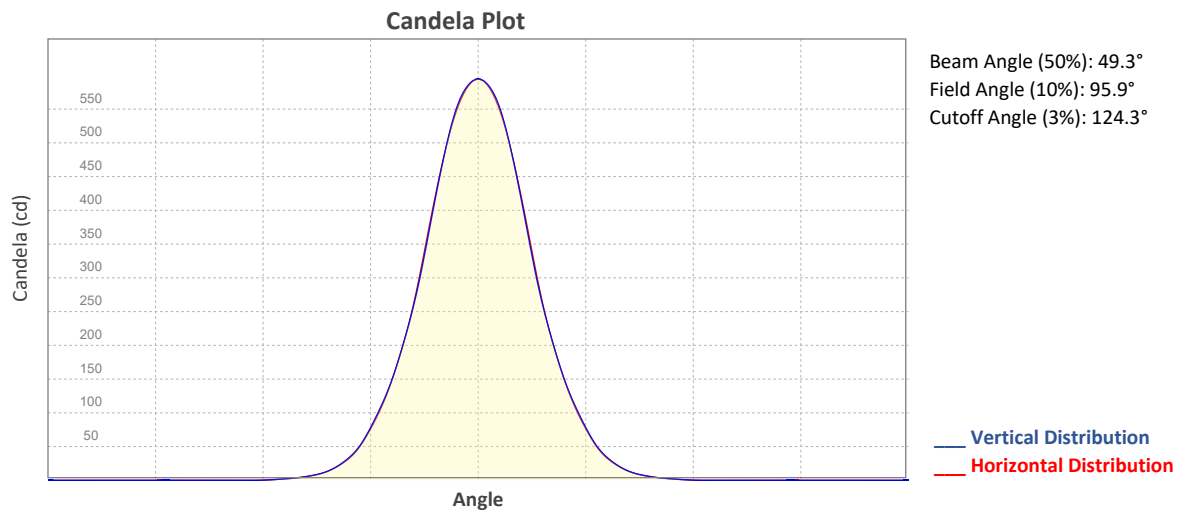
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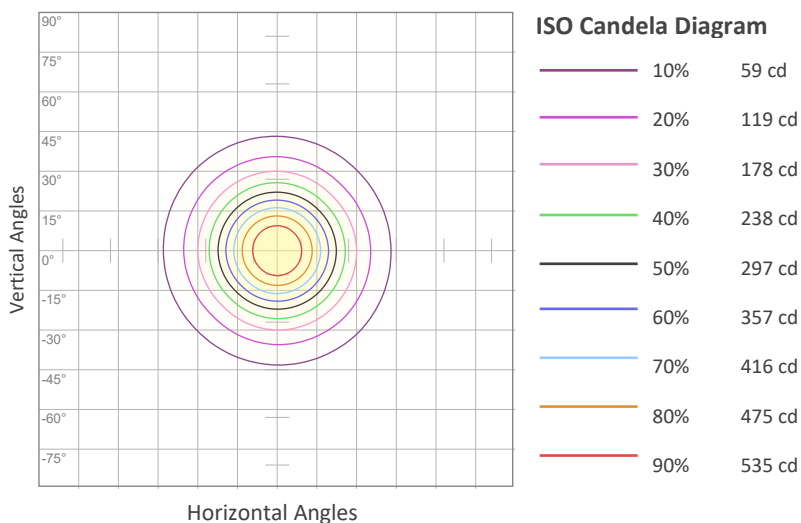
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# Photometric & Chromaticity Report

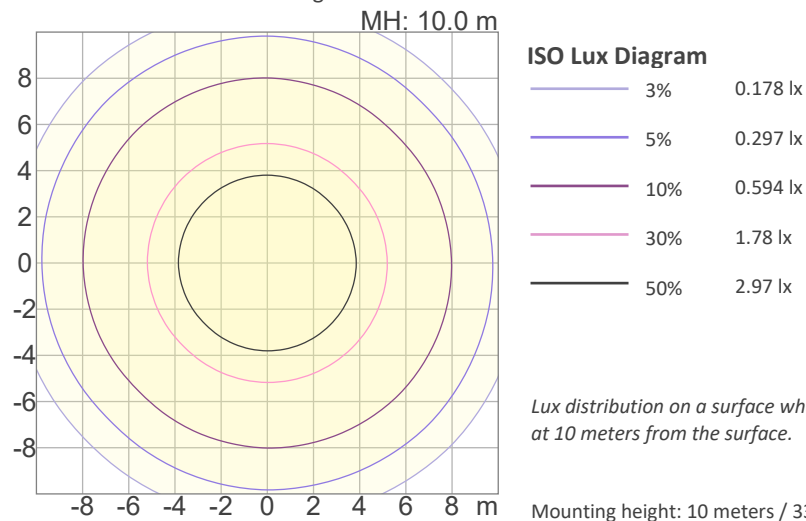
Logic AR111 Downlight M: Medium Filter Lens - 7000K



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 594 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 5.94 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

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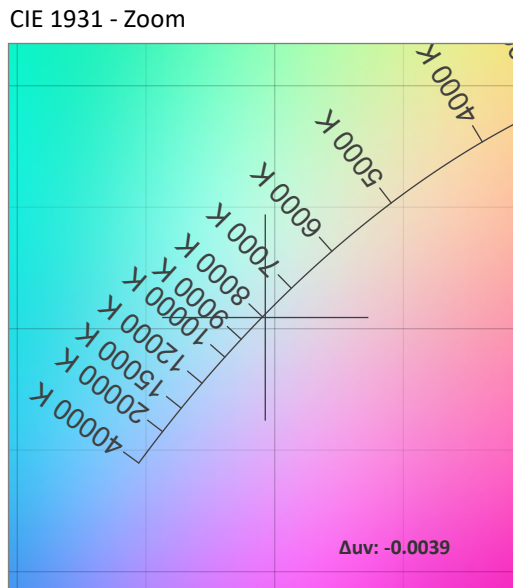
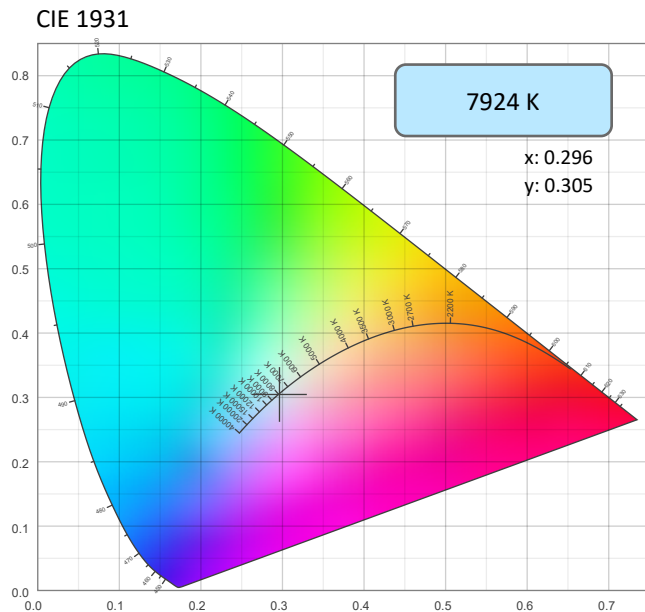
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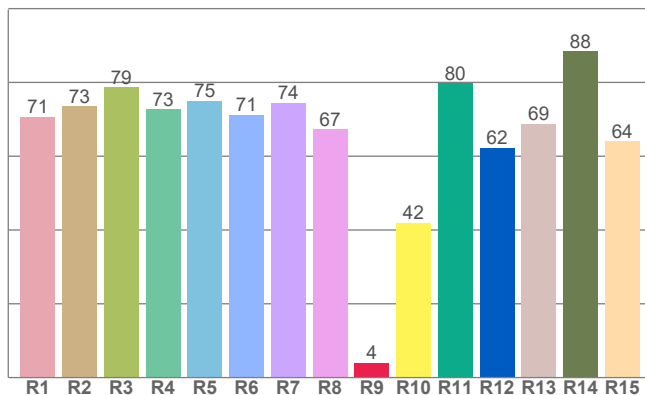
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 7000K

## Chromaticity



CRI: 72.9 (R1-R8)

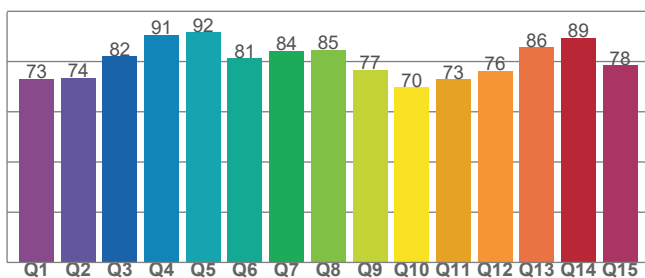


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7924 K	0.296	0.305

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0039	0.305	0.196

CQS: 79.6



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.9	4.0	79.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	73.3	93.6

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# Photometric & Chromaticity Report

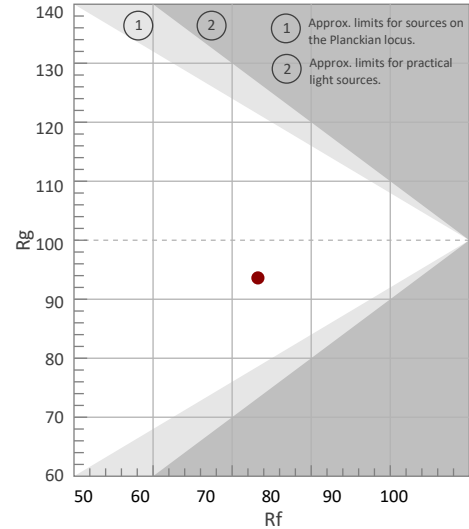
Logic AR111 Downlight M: Medium Filter Lens - 7000K

## TM-30 Details

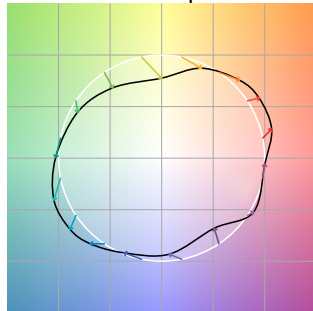
**Rf 73.3**  
Fidelity Index (Rg)

**Rg 93.6**  
Gammut Index (Rg)

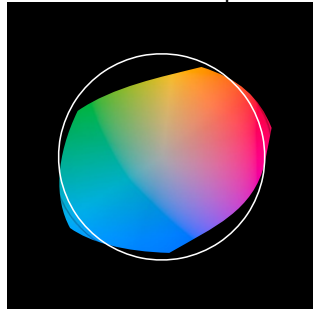
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	74	10%	7%
2	78	11%	-4%
3	69	5%	-21%
4	65	-7%	-21%
5	57	-24%	-15%
6	75	-17%	2%
7	84	-7%	8%
8	67	1%	19%
9	78	10%	19%
10	79	12%	8%
11	71	7%	-11%
12	75	-3%	-18%
13	81	-7%	-11%
14	73	-15%	5%
15	87	3%	6%
16	75	-1%	14%



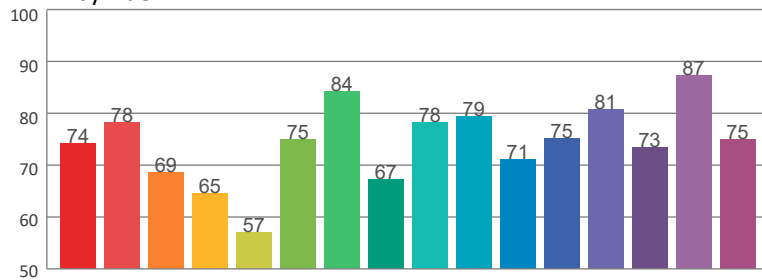
Color Vector Graphic



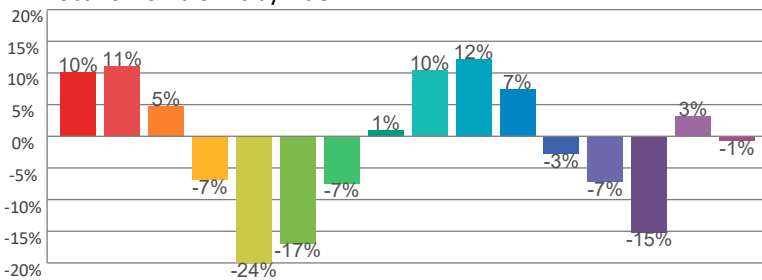
Color Distortion Graphic



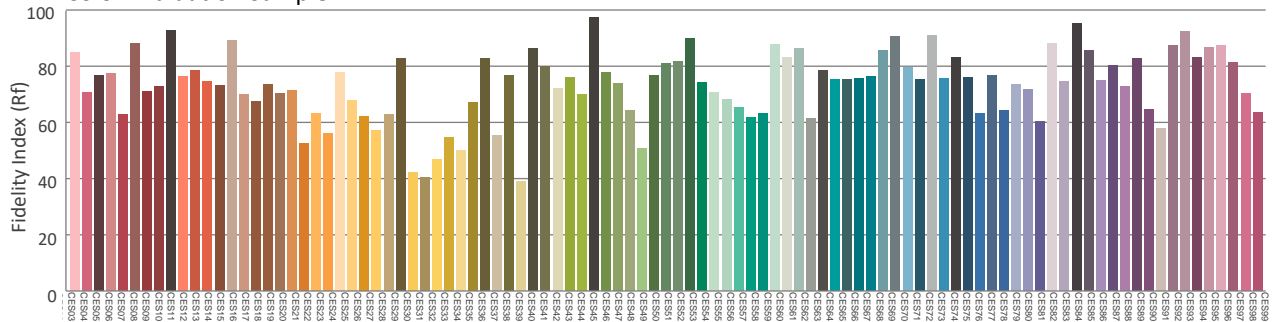
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

## Report Summary

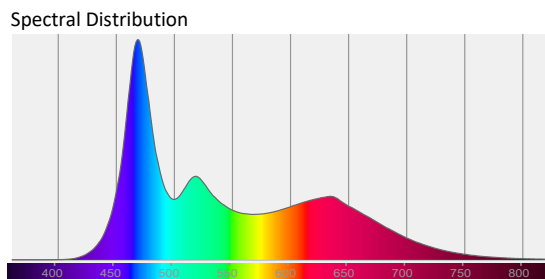
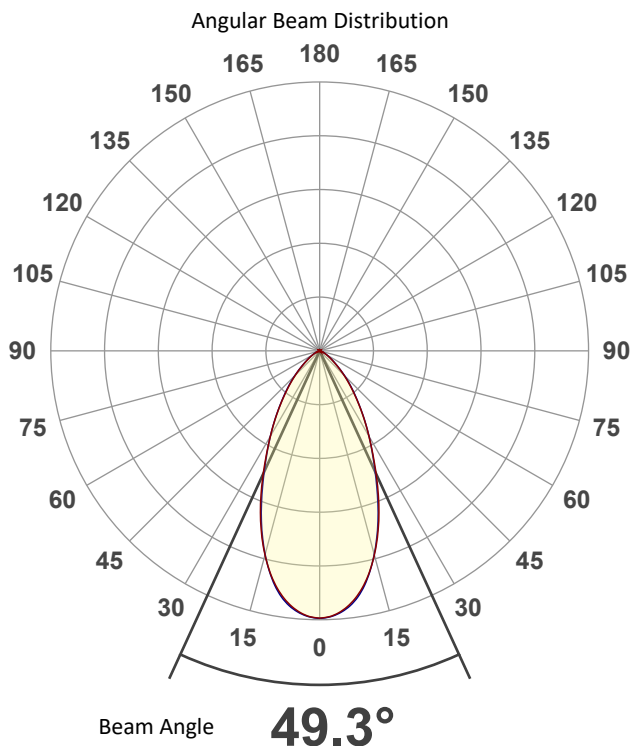
### Measurements

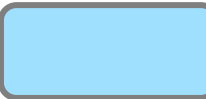
Fixture Output: 529 lm  
 Fixture Peak: 602 cd  
 Fixture Efficacy: 21 lm/W  
 Intensity @ 5m: 24 lux  
 Color Temperature: 9472 K  
 CRI: 72.1      CRI R9 Value: 11.0  
 CQS: 77.4  
 TLCI: 74  
 TM-30 Rf: 71.2  
 TM-30 Rg: 91.1  
 Beam Angle (50%): 49.3°  
 Field Angle (10%): 95.9°  
 Cutoff Angle (3%): 124.3°  
**Conditions**  
 AC Supply: 119 V, 60 Hz  
 Power: 27.47 W  
 Current: 0.231 A  
 Power Factor: 0.92



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

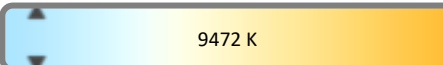
## Overall Measurement



Tested Color (CIE 1931):   
 X: 0.283  
 Y: 0.294

Light Quality  

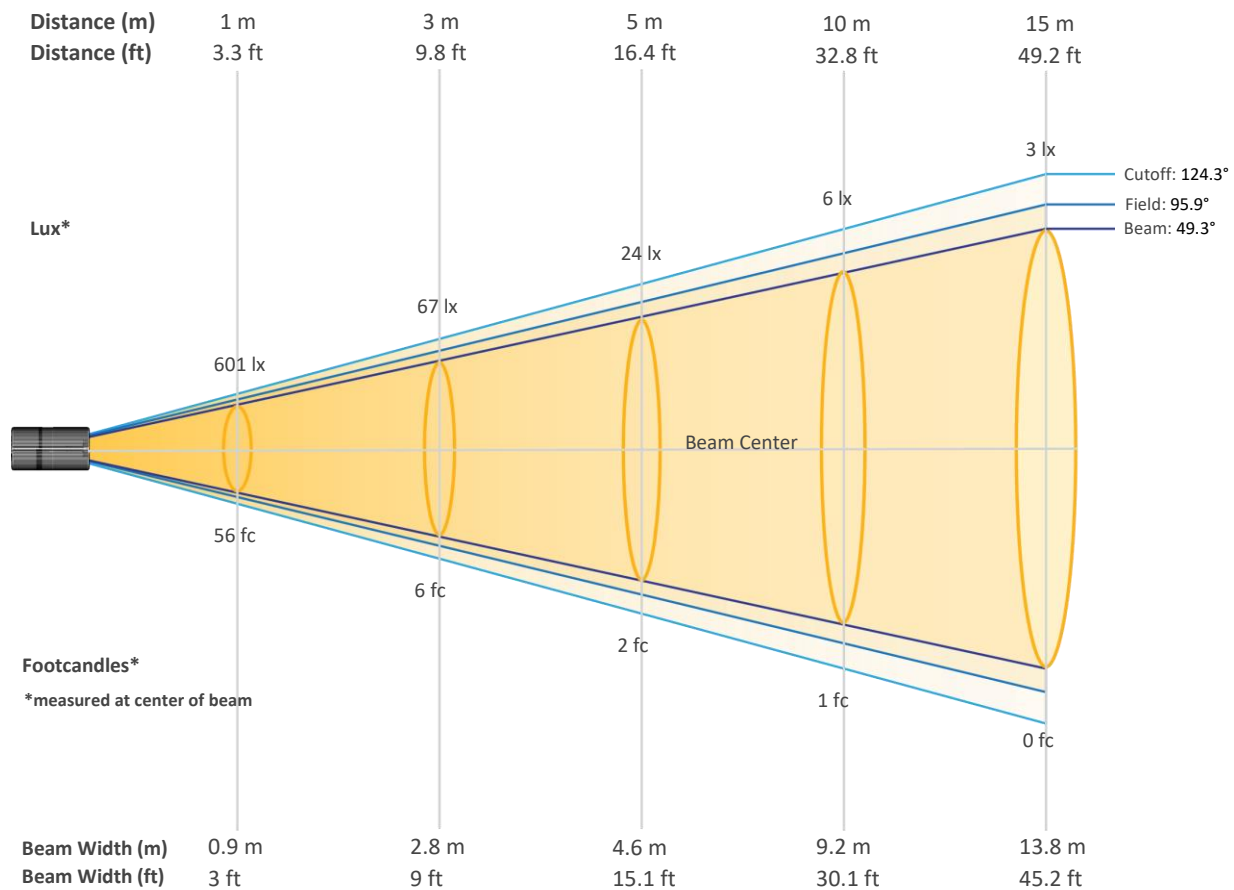
 CRI: 72.1

Color Temperature  

 9472 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	601	150	67	38	24	17	12	9	7	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	56	14	6	3	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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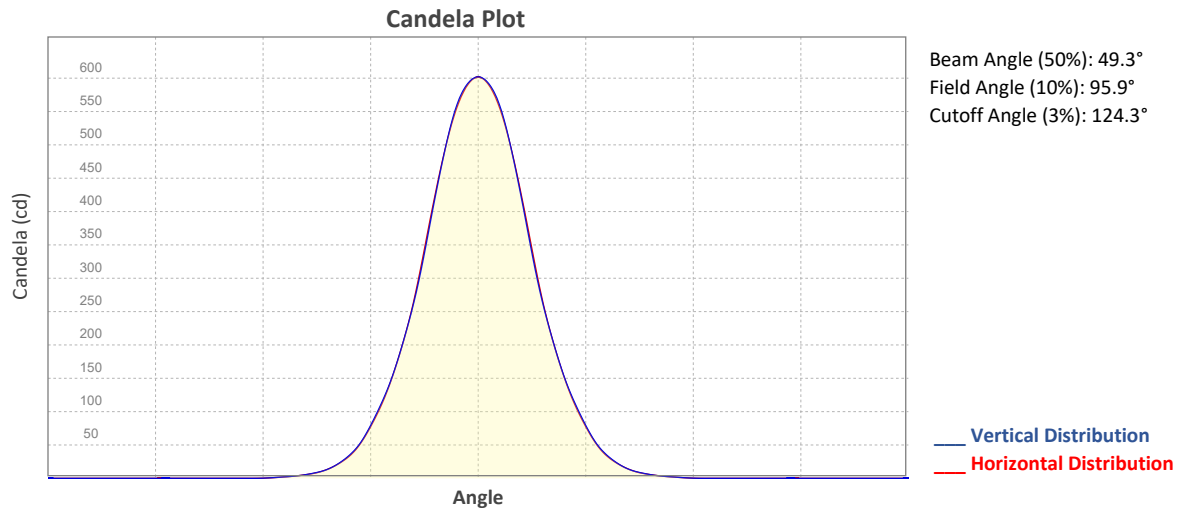
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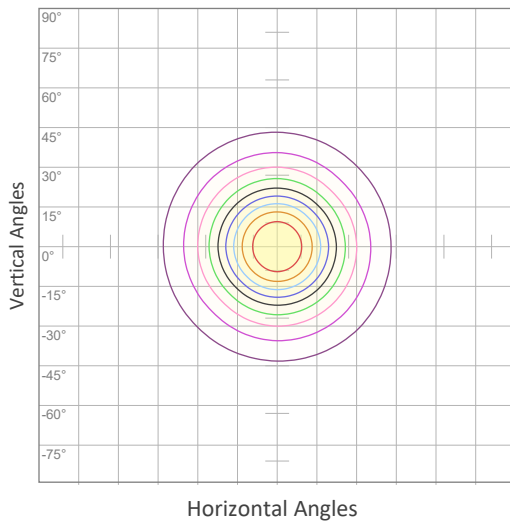
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K



## ISO Diagrams

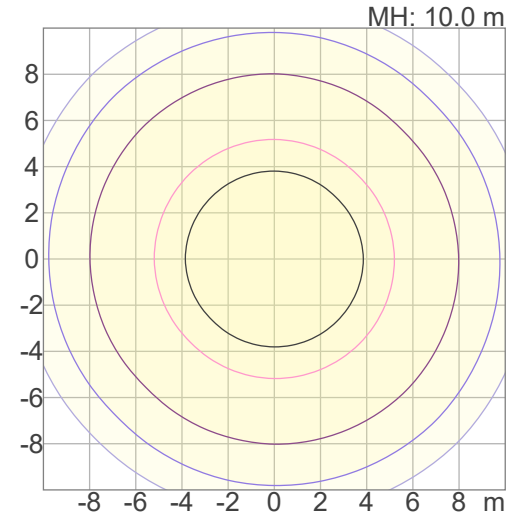


ISO Candela Diagram

10%	60 cd
20%	120 cd
30%	180 cd
40%	241 cd
50%	301 cd
60%	361 cd
70%	421 cd
80%	481 cd
90%	541 cd

**Conditions:**

Number of c-planes: 8  
Candela at center: 601 cd



ISO Lux Diagram

3%	0.180 lx
5%	0.301 lx
10%	0.601 lx
30%	1.80 lx
50%	3.01 lx

**Conditions:**

Number of c-planes: 8  
Candela at center: 6.01 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

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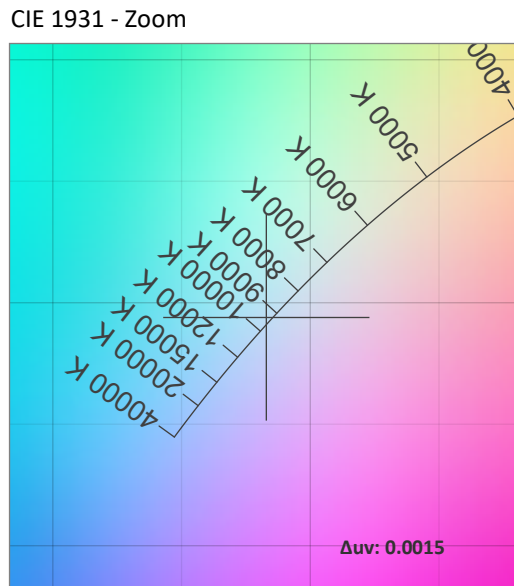
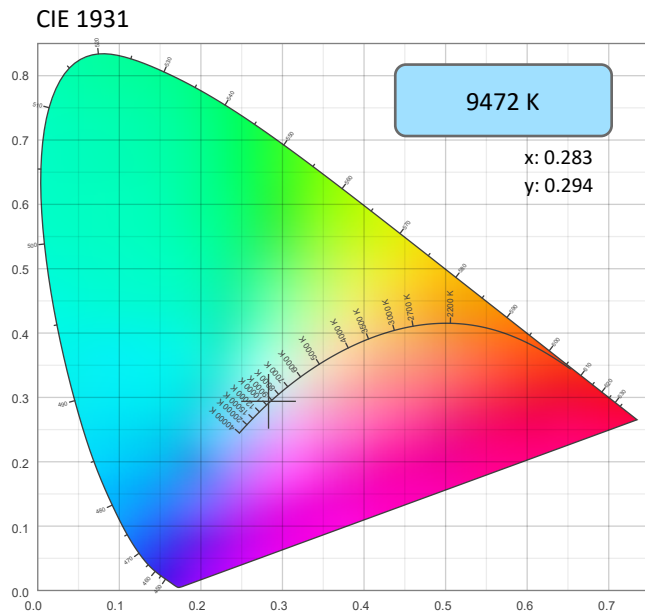
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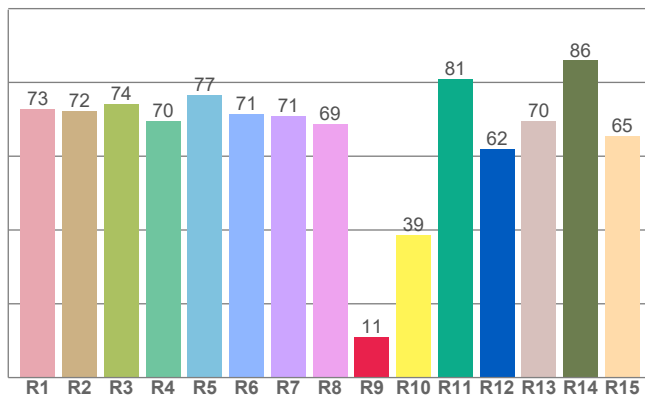
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 8000K

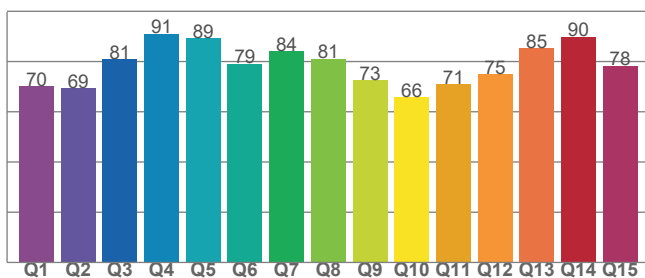
## Chromaticity



CRI: 72.1 (R1-R8)



CQS: 77.4



## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
9472 K	0.283	0.294

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
0.0015	0.294	0.190

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.1	11.0	77.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	71.2	91.1

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# Photometric & Chromaticity Report

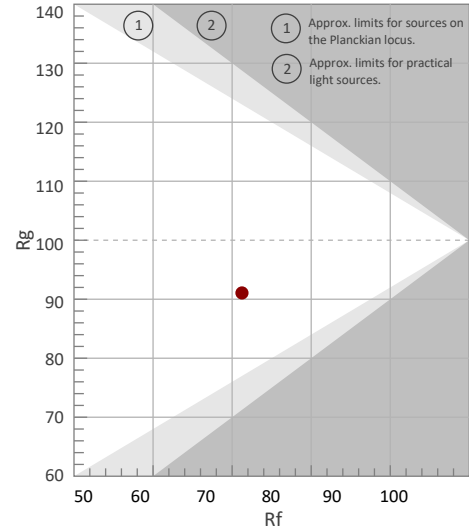
Logic AR111 Downlight M: Medium Filter Lens - 8000K

## TM-30 Details

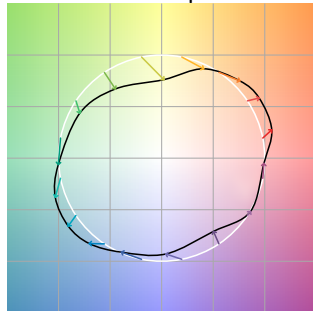
**Rf 71.2**  
Fidelity Index (Rg)

**Rg 91.1**  
Gammut Index (Rg)

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	75	10%	6%
2	78	11%	-4%
3	66	4%	-21%
4	64	-7%	-23%
5	53	-26%	-17%
6	72	-19%	0%
7	82	-10%	8%
8	65	-3%	26%
9	77	9%	17%
10	82	12%	4%
11	69	8%	-12%
12	72	-3%	-21%
13	77	-8%	-14%
14	76	-13%	2%
15	88	0%	5%
16	73	-2%	14%



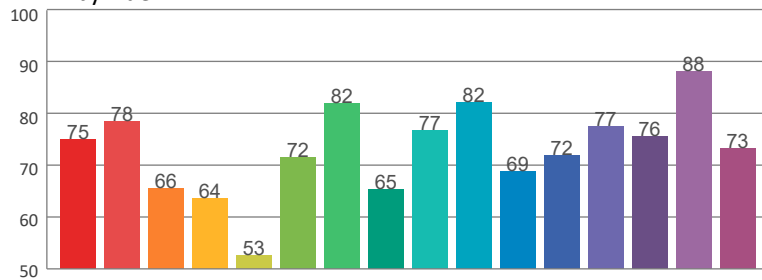
Color Vector Graphic



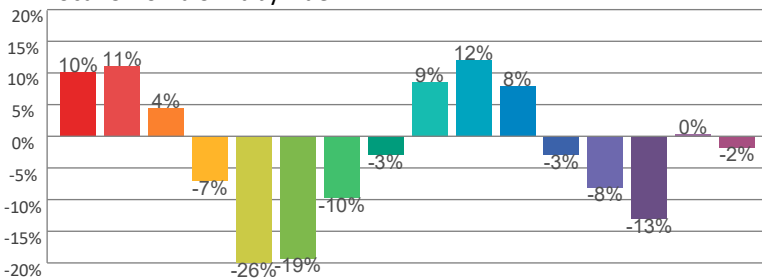
Color Distortion Graphic



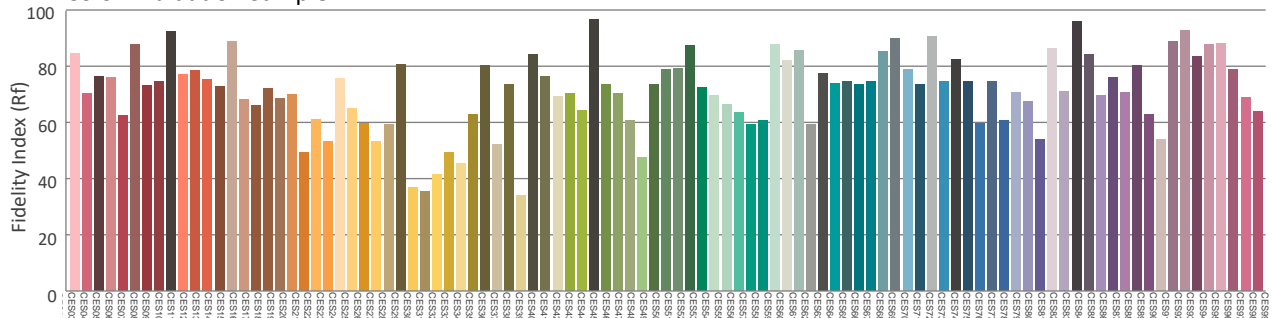
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

## Report Summary

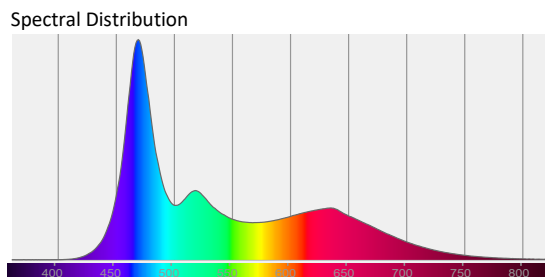
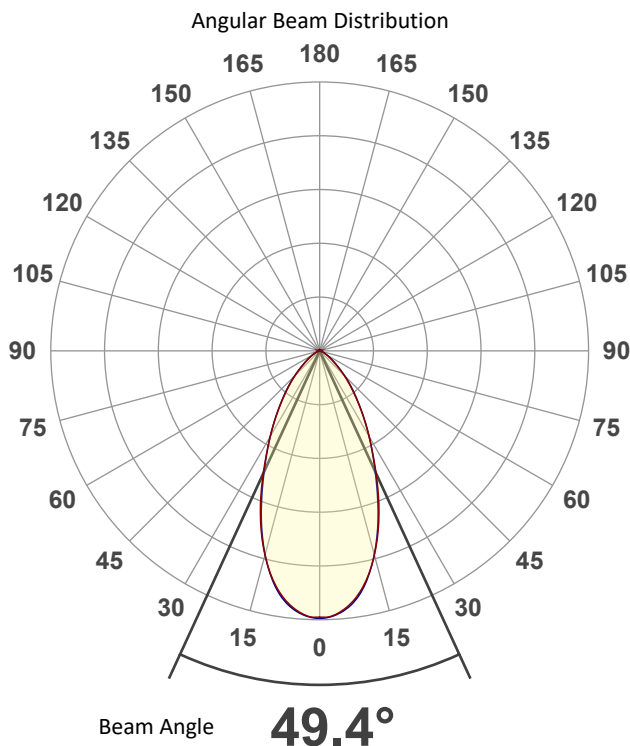
### Measurements

Fixture Output: 543 lm  
Fixture Peak: 617 cd  
Fixture Efficacy: 21 lm/W  
Intensity @ 5m: 25 lux  
Color Temperature: 12963 K  
CRI: 66.9      CRI R9 Value: -3.3  
CQS: 73.4  
TLCI: 71  
TM-30 Rf: 66.8  
TM-30 Rg: 88.0  
Beam Angle (50%): 49.4°  
Field Angle (10%): 96.1°  
Cutoff Angle (3%): 124.5°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 28.27 W  
Current: 0.238 A  
Power Factor: 0.92



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.268  
Y: 0.275

Light Quality  
CRI: 66.9

Color Temperature  
12963 K

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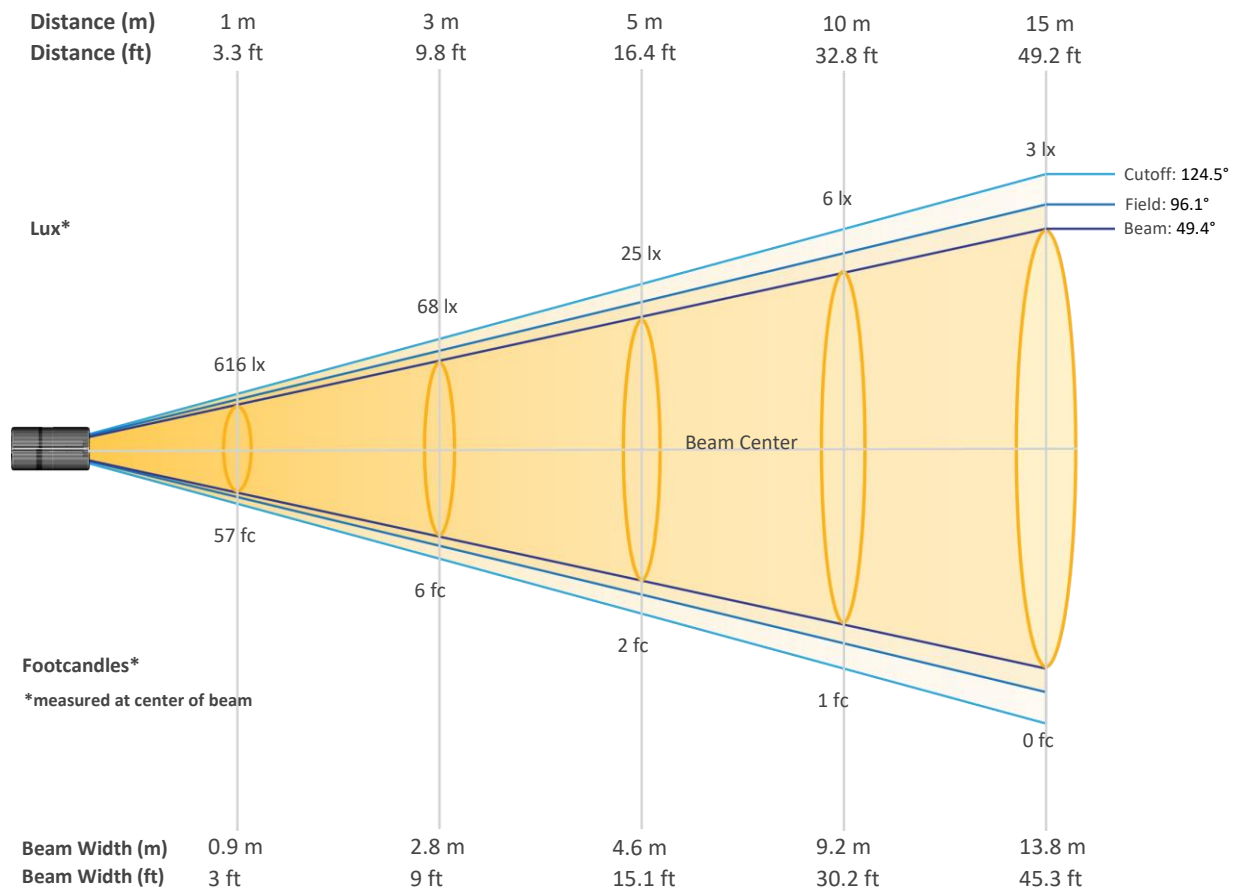
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	616	154	68	39	25	17	13	10	8	6
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5	4	4	3	3	2	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	57	14	6	4	2	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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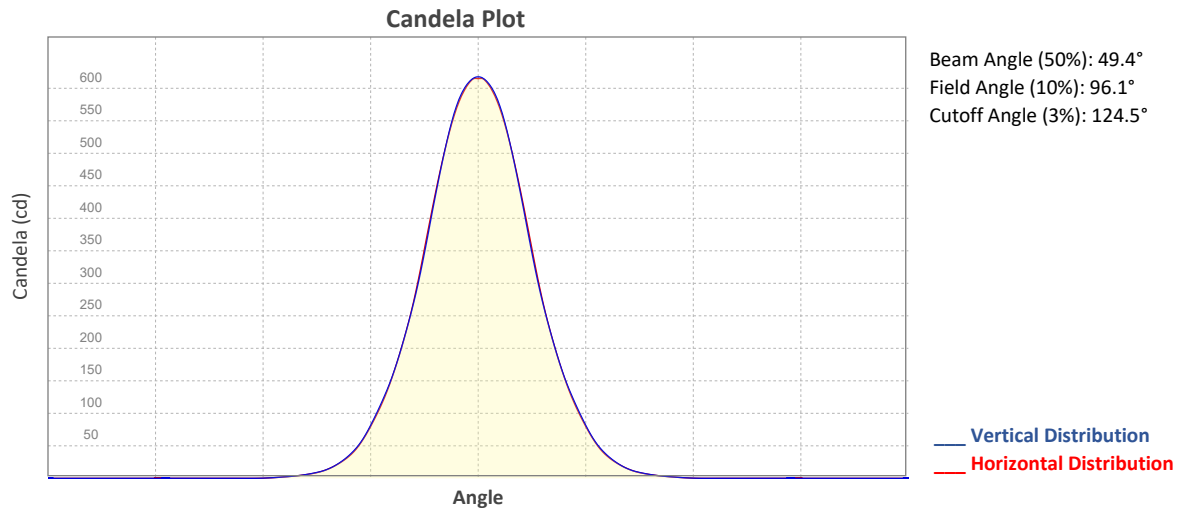
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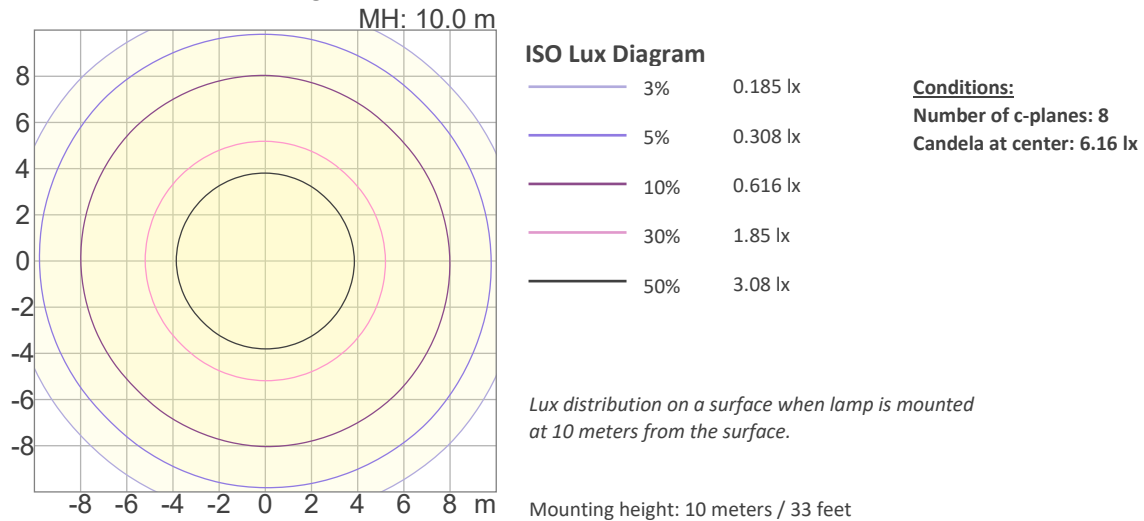
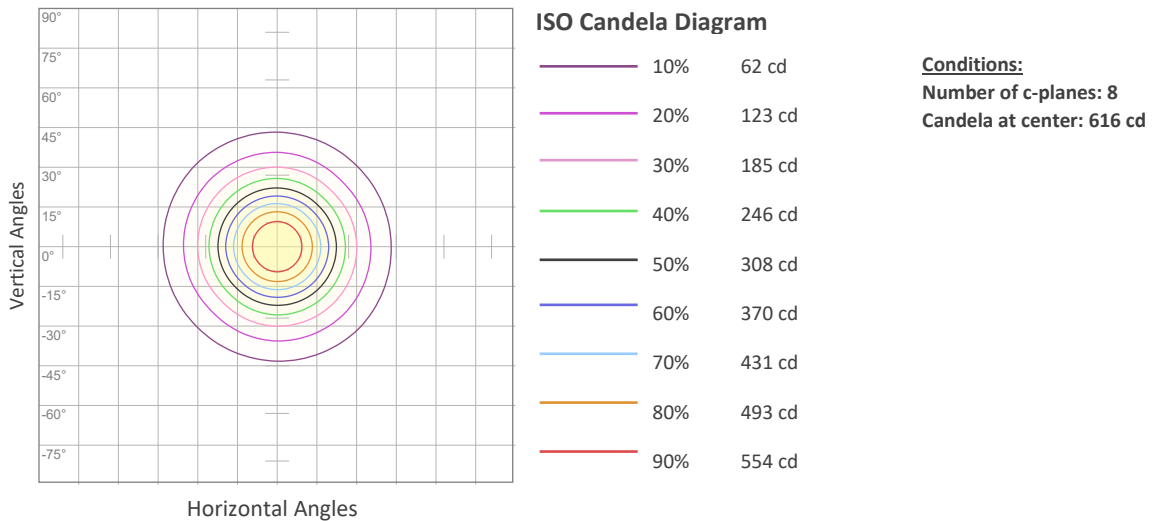
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K



## ISO Diagrams



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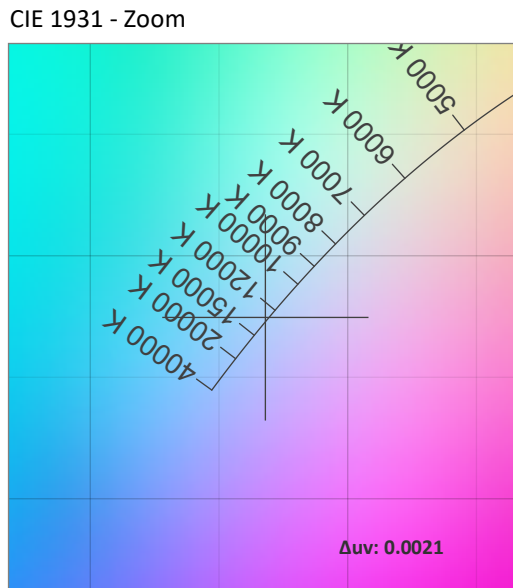
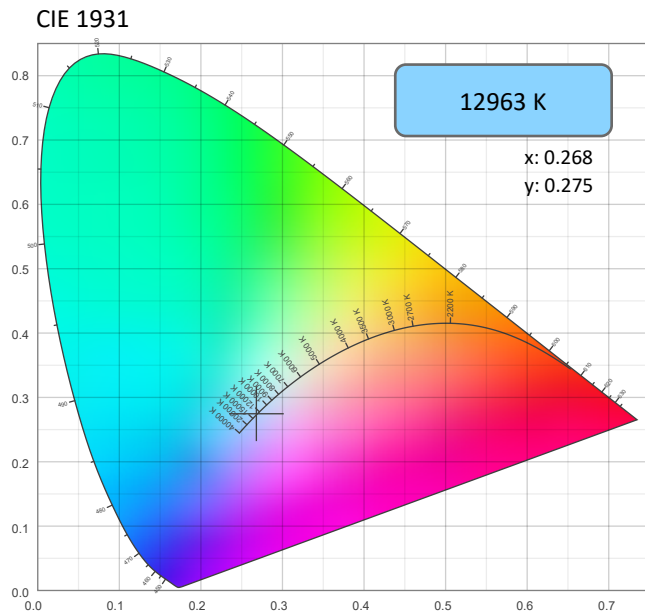
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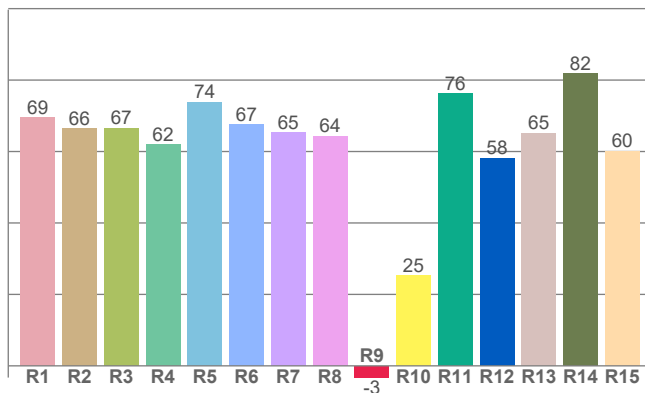
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens - 10000K

## Chromaticity



CRI: 66.9 (R1-R8)



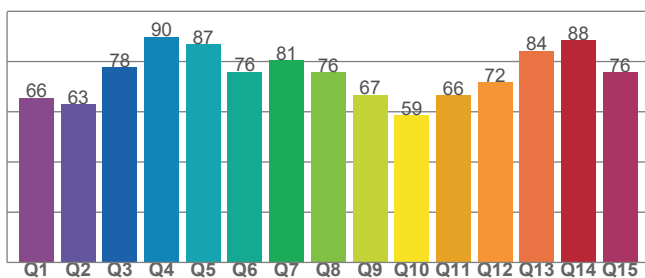
## Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
12963 K	0.268	0.275

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
0.0021	0.275	0.186

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
66.9	-3.3	73.4

CQS: 73.4



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
71	66.8	88.0

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# Photometric & Chromaticity Report

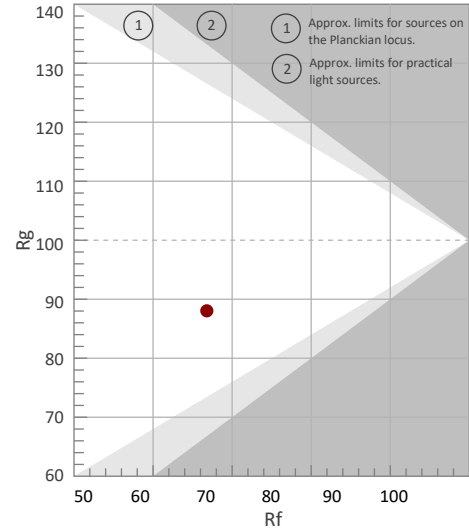
Logic AR111 Downlight M: Medium Filter Lens - 10000K

## TM-30 Details

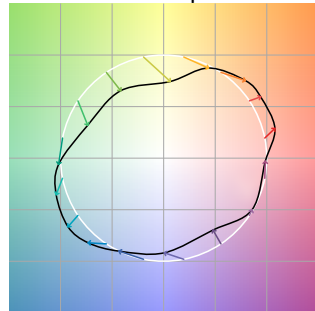
**Rf 66.8**  
Fidelity Index (Rg)

**Rg 88.0**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	72	11%	7%
2	77	11%	-3%
3	62	7%	-24%
4	57	-6%	-26%
5	48	-28%	-21%
6	66	-22%	-2%
7	71	-21%	14%
8	65	-1%	26%
9	75	9%	14%
10	81	14%	4%
11	63	9%	-15%
12	70	-3%	-25%
13	70	-10%	-17%
14	72	-15%	1%
15	86	-1%	6%
16	69	-3%	16%



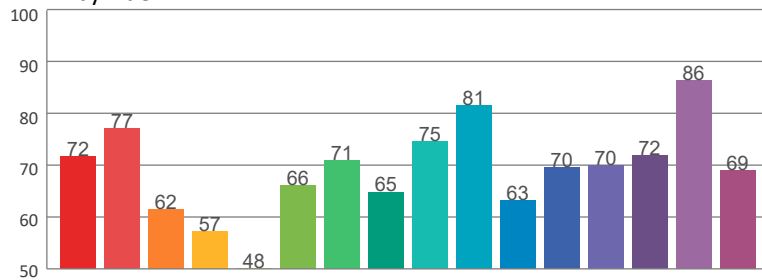
Color Vector Graphic



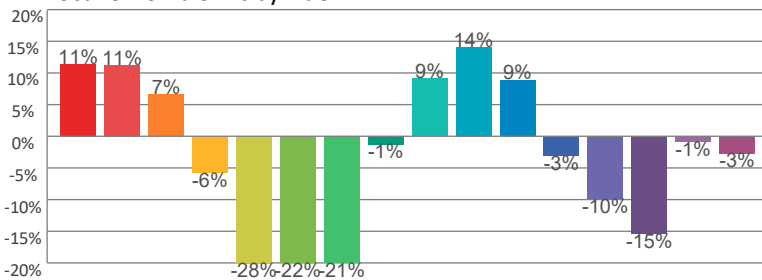
Color Distortion Graphic



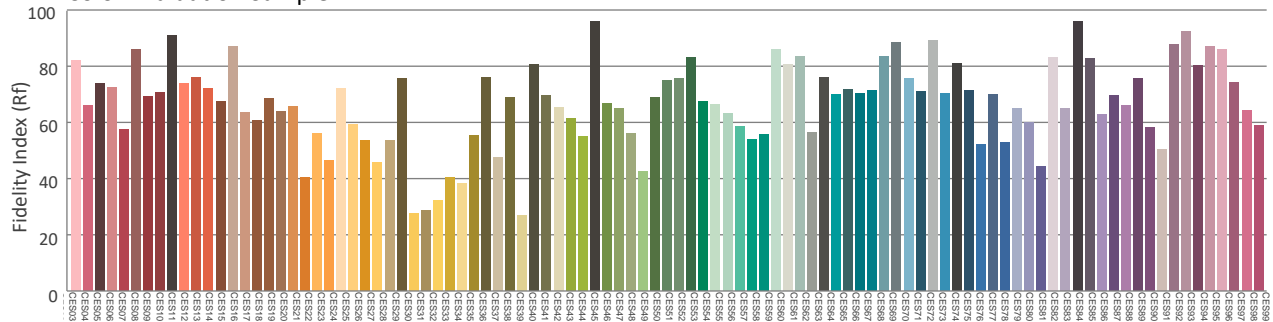
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

## Report Summary

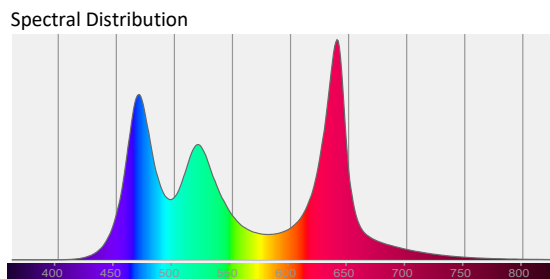
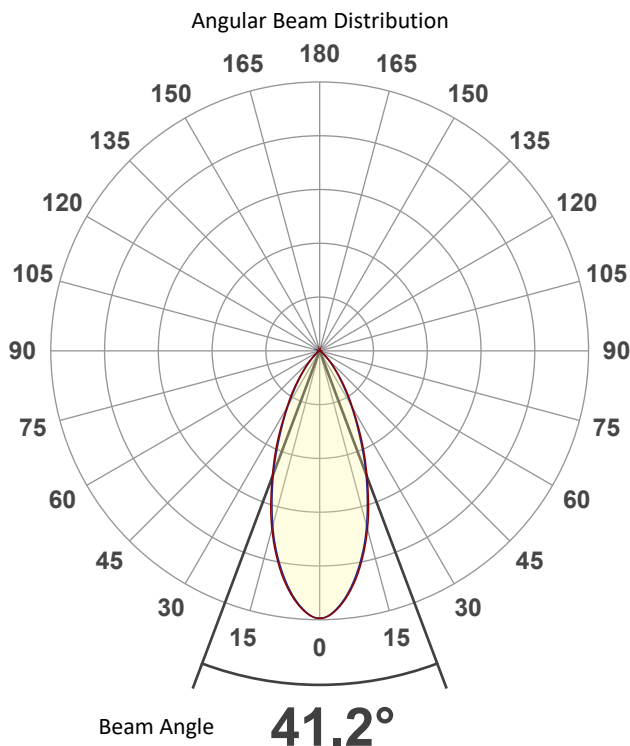
### Measurements

Fixture Output: 621 lm  
 Fixture Peak: 1055 cd  
 Fixture Efficacy: 16 lm/W  
 Intensity @ 5m: 42 lux  
 Color Temperature: 6331 K  
 CRI: 48.9      CRI R9 Value: -159.1  
 CQS: 61.7  
 TLCI: 26  
 TM-30 Rf: 60.6  
 TM-30 Rg: 102.6  
 Beam Angle (50%): 41.2°  
 Field Angle (10%): 77.6°  
 Cutoff Angle (3%): 97.9°  
**Conditions**  
 AC Supply: 120 V, 60 Hz  
 Power: 40.53 W  
 Current: 0.337 A  
 Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):                       
 X: 0.316  
 Y: 0.332

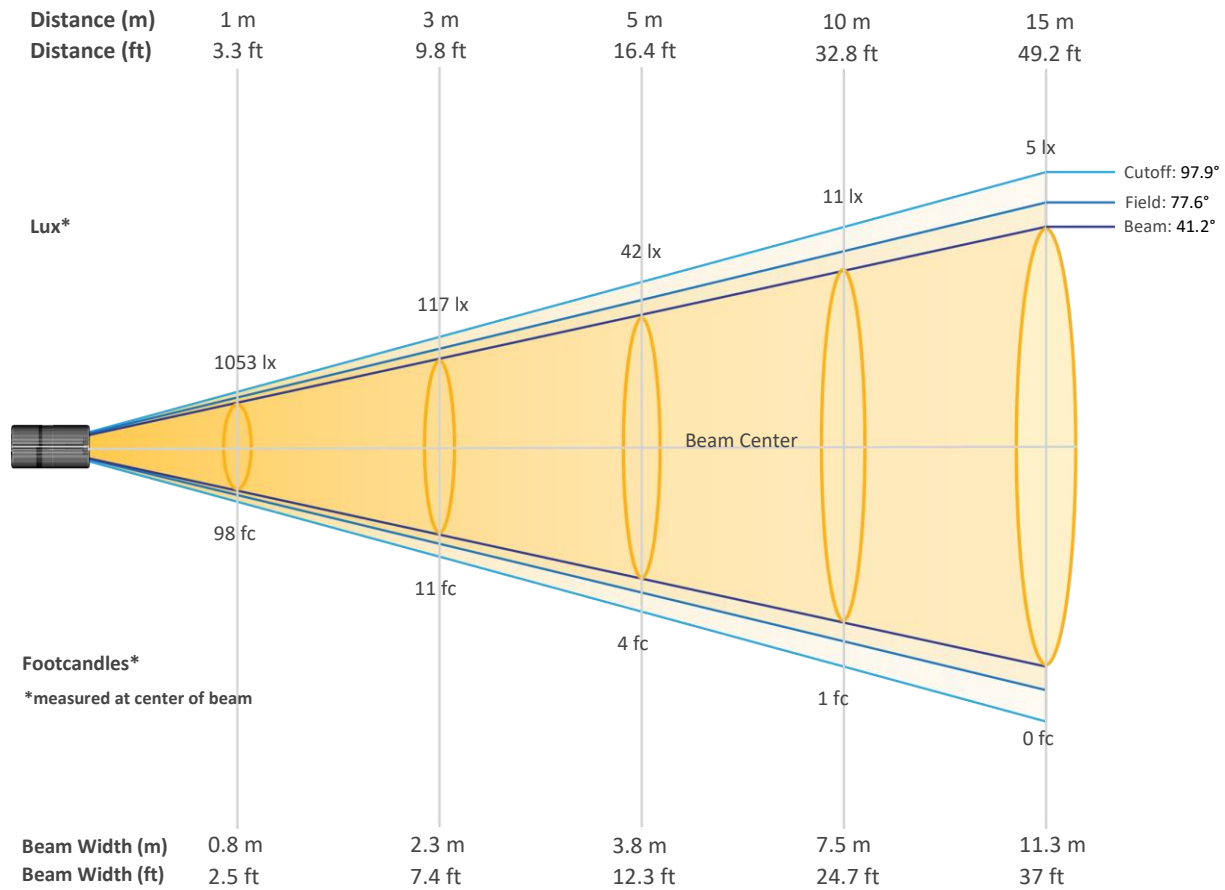
Light Quality                       
 CRI: 48.9

Color Temperature                       
 6331 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1053	263	117	66	42	29	21	16	13	11
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	9	7	6	5	5	4	4	3	3	3
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	98	24	11	6	4	3	2	2	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	0	0	0	0	0	0	0

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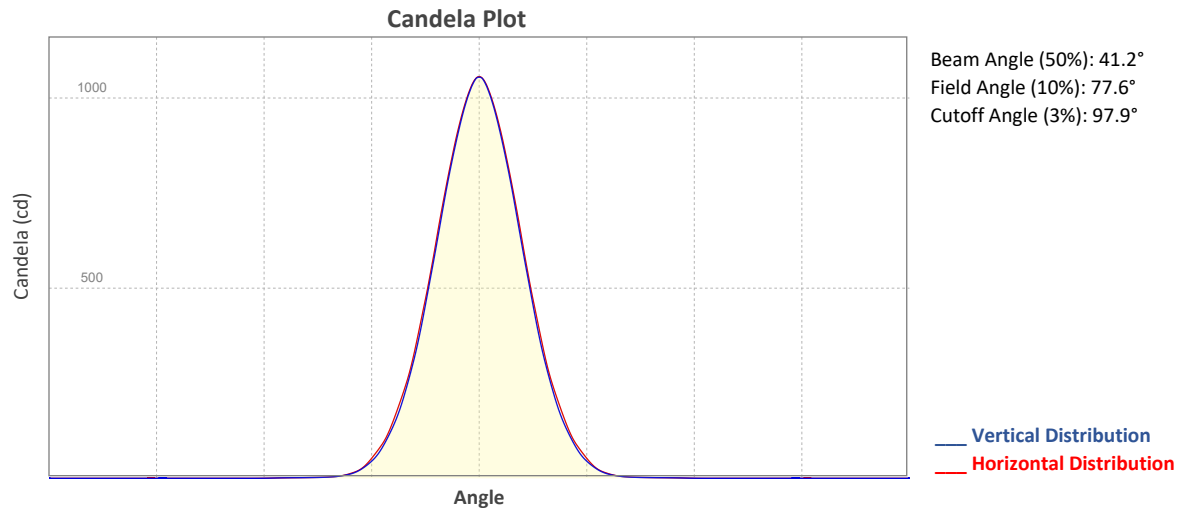
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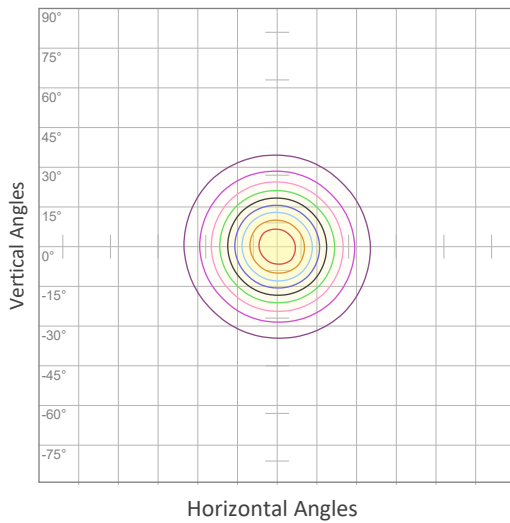


# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power



## ISO Diagrams

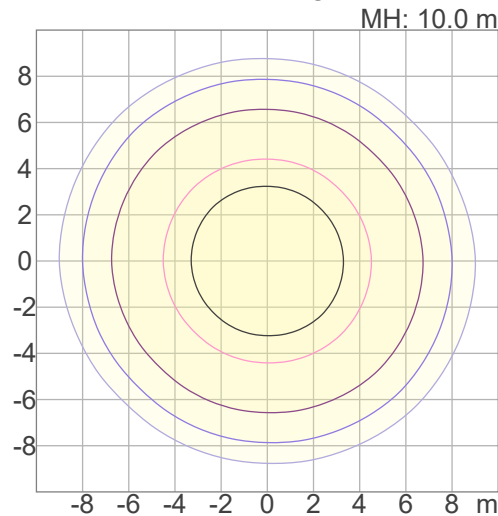


**ISO Candela Diagram**

10%	105 cd
20%	211 cd
30%	316 cd
40%	421 cd
50%	527 cd
60%	632 cd
70%	737 cd
80%	843 cd
90%	948 cd

**Conditions:**

Number of c-planes: 8  
 Candela at center: 1053 cd



**ISO Lux Diagram**

3%	0.316 lx
5%	0.527 lx
10%	1.05 lx
30%	3.16 lx
50%	5.27 lx

**Conditions:**

Number of c-planes: 8  
 Candela at center: 10.5 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

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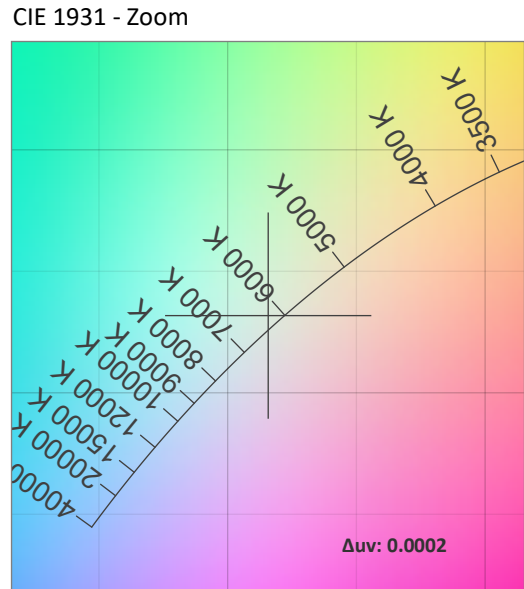
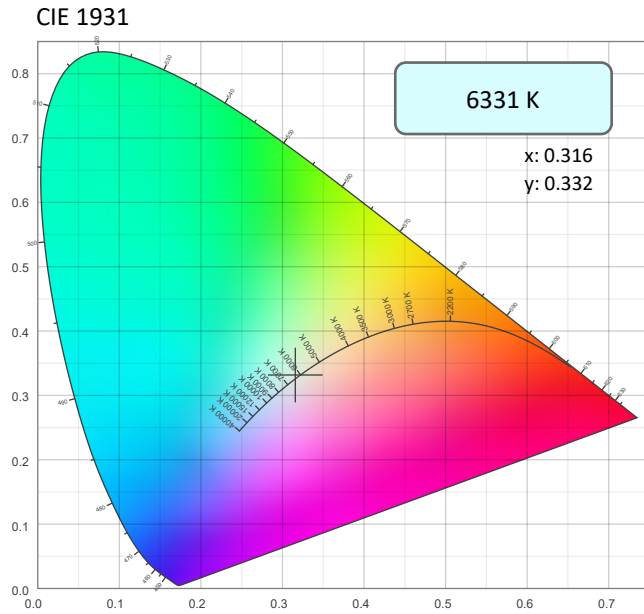
All product specifications, measurements and dimensions are subject to change without notice

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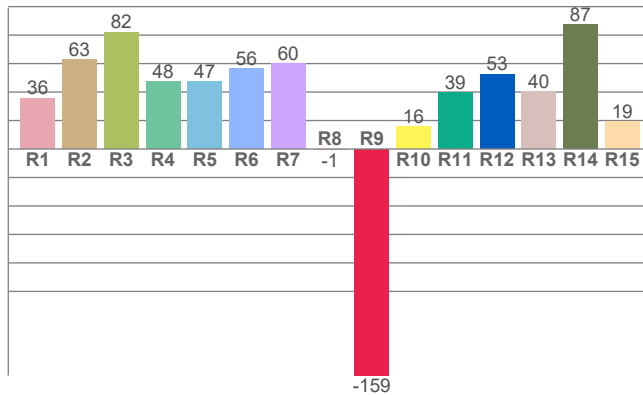
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

## Chromaticity



CRI: 48.9 (R1-R8)

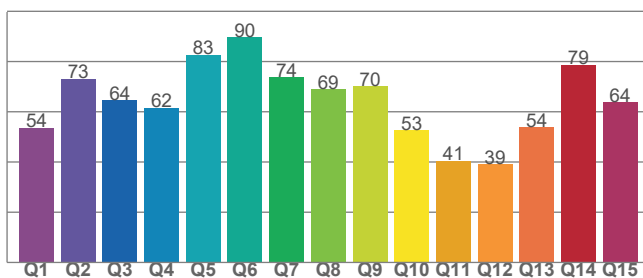


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6331 K	0.316	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.332	0.199

CQS: 61.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.9	-159.1	61.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	60.6	102.6

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# Photometric & Chromaticity Report

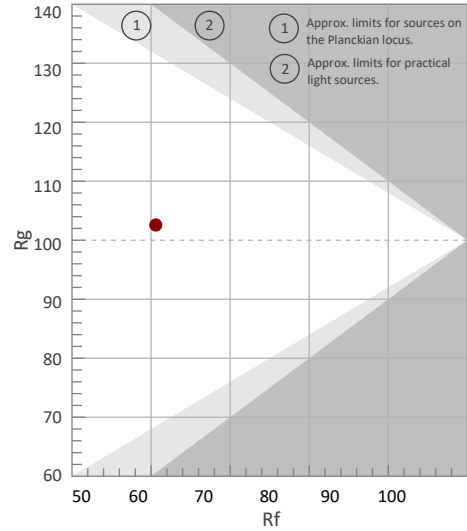
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - RGBW - Full Power

## TM-30 Details

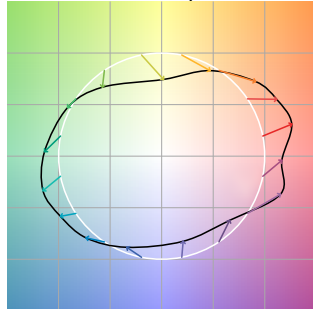
**Rf 60.6**  
Fidelity Index (Rg)

**Rg 102.6**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	44	30%	6%
2	57	23%	-16%
3	37	11%	-35%
4	50	-10%	-30%
5	52	-27%	-16%
6	74	-12%	11%
7	80	2%	11%
8	64	12%	18%
9	73	19%	10%
10	71	14%	-6%
11	67	7%	-17%
12	73	-7%	-16%
13	73	-15%	4%
14	61	-12%	20%
15	53	16%	33%
16	60	15%	19%



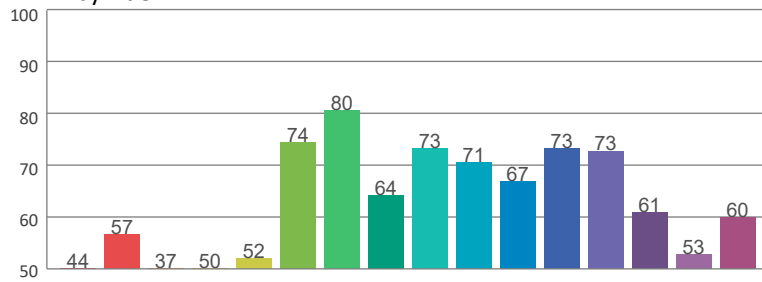
Color Vector Graphic



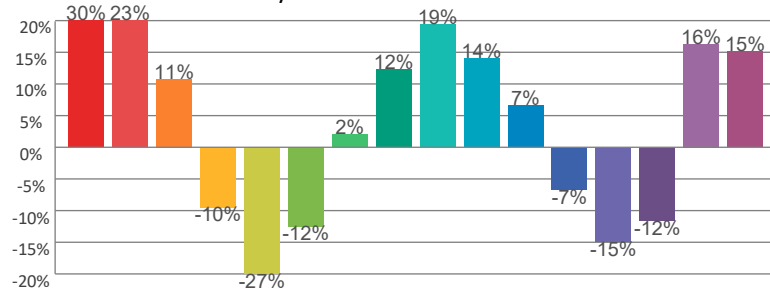
Color Distortion Graphic



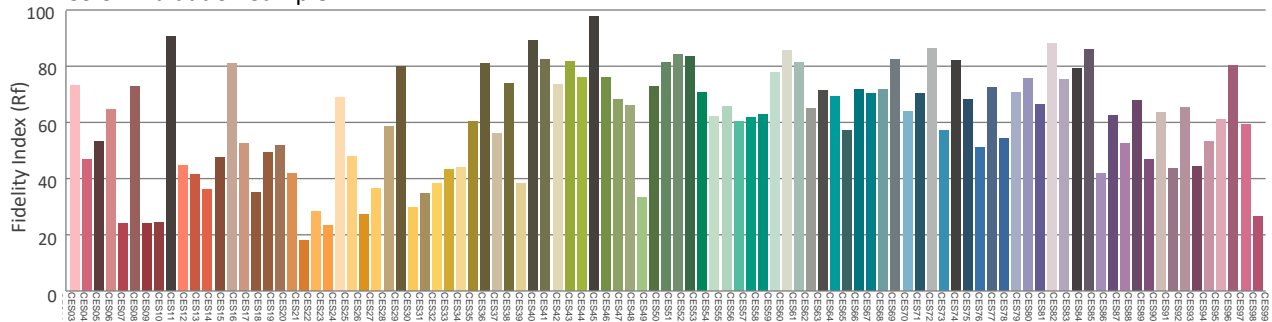
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only

## Report Summary

### Measurements

Fixture Output: 136 lm

Fixture Peak: 230 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 9 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 41.3°

Field Angle (10%): 77.6°

Cutoff Angle (3%): 97.9°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 21.71 W

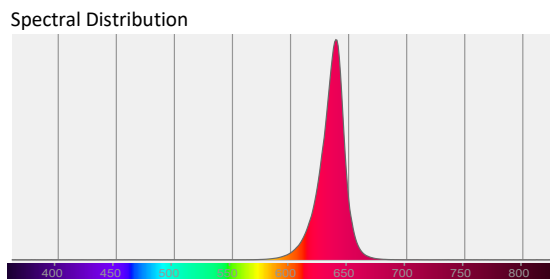
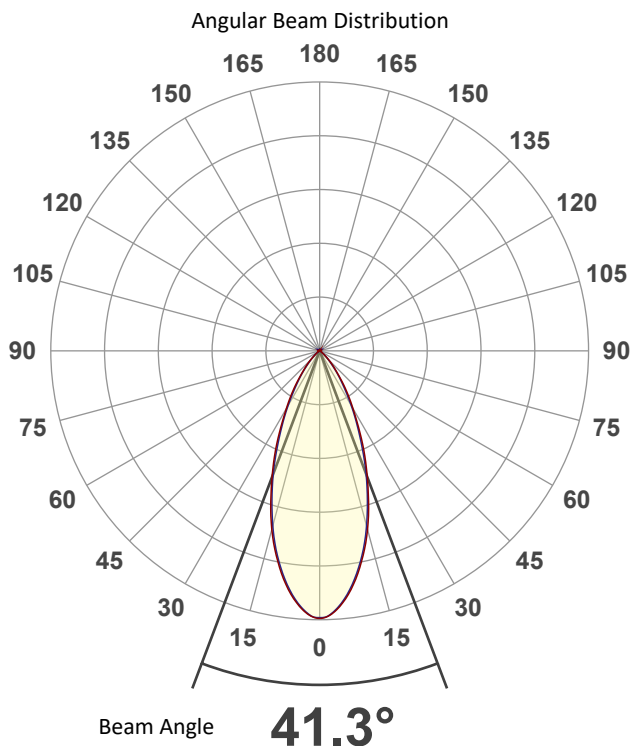
Current: 0.180 A

Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.701

Y: 0.298



Light Quality

CRI: 0.0

Color Temperature

0 K

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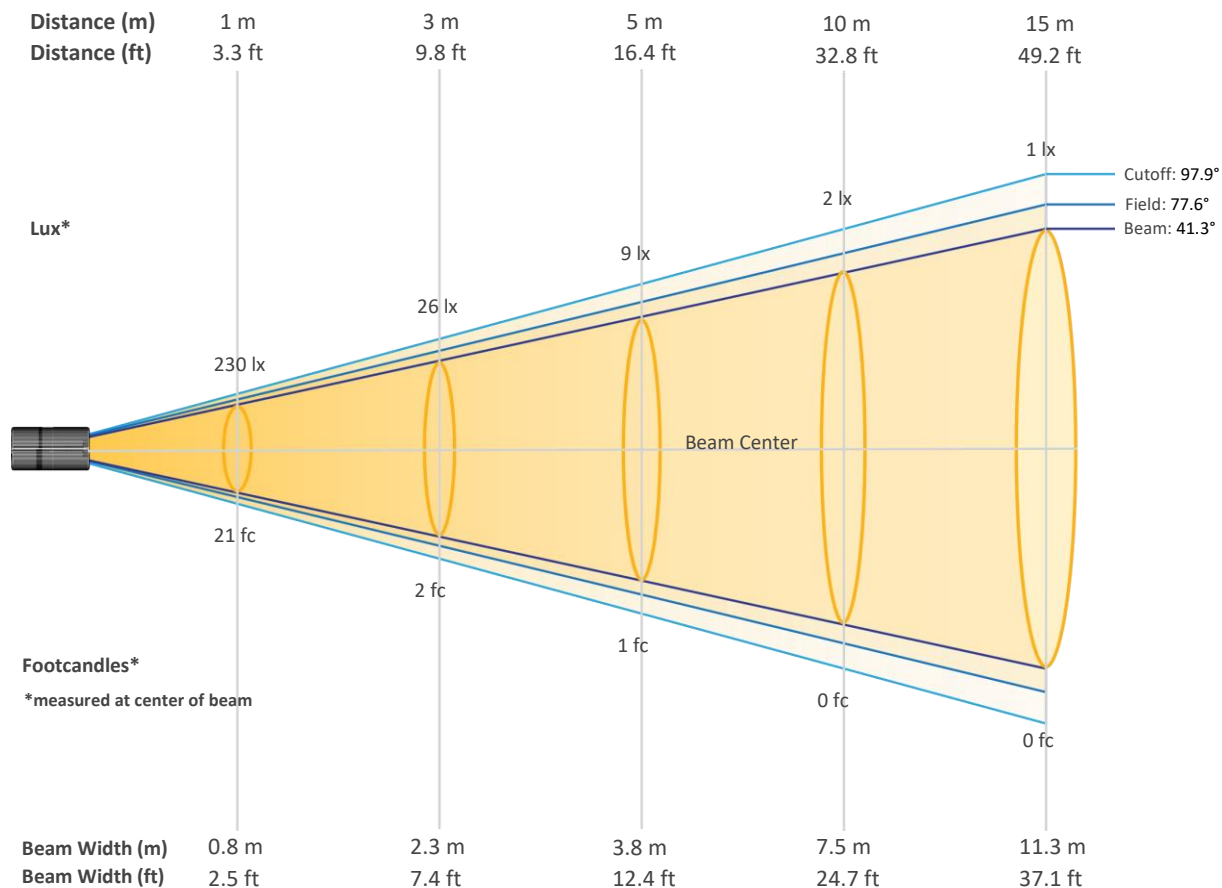
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	230	57	26	14	9	6	5	4	3	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	1	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	21	5	2	1	1	1	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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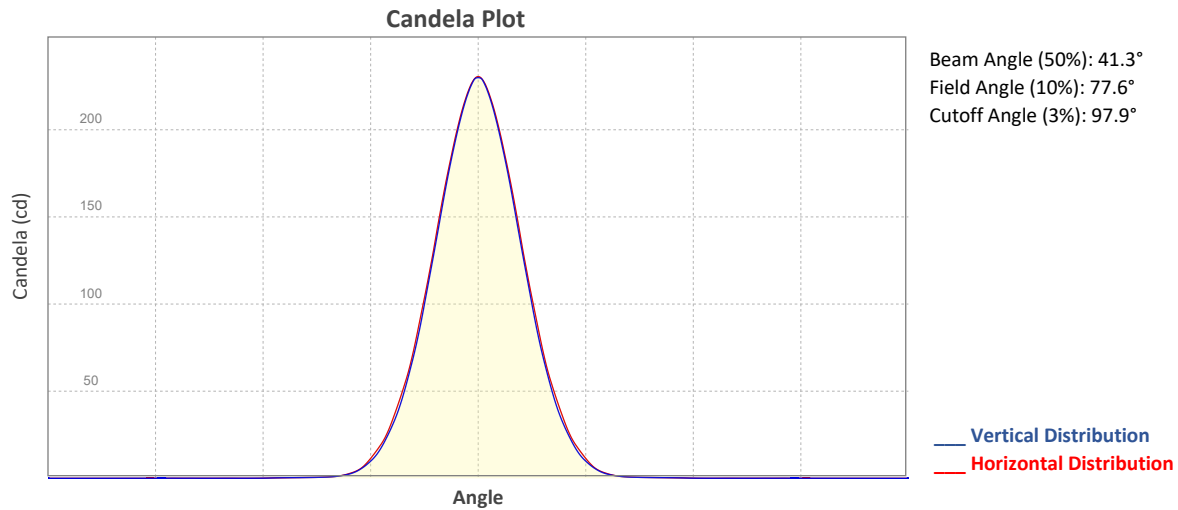
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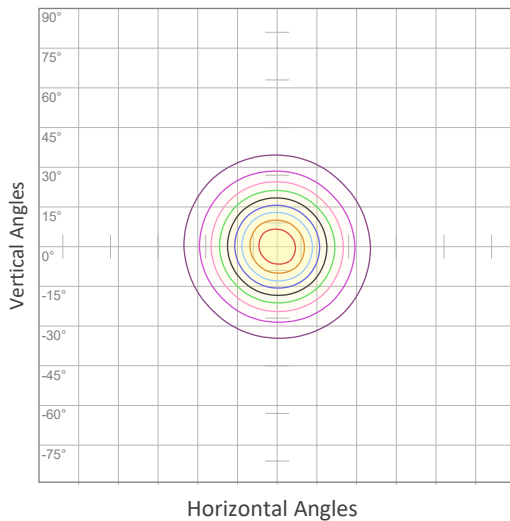
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only



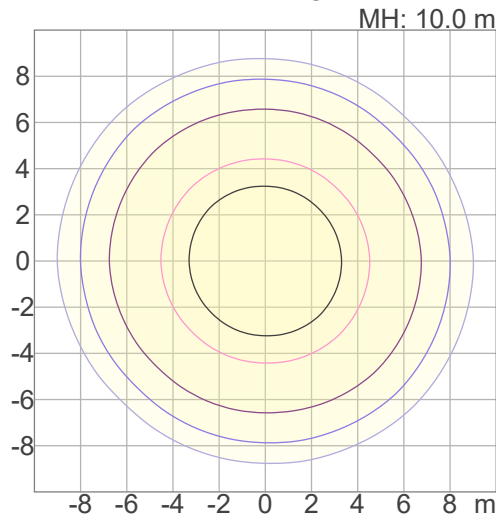
## ISO Diagrams



ISO Candela Diagram

10%	23 cd
20%	46 cd
30%	69 cd
40%	92 cd
50%	115 cd
60%	138 cd
70%	161 cd
80%	184 cd
90%	207 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 230 cd



ISO Lux Diagram

3%	68.9m lx
5%	0.115 lx
10%	0.230 lx
30%	0.689 lx
50%	1.15 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 2.30 lx

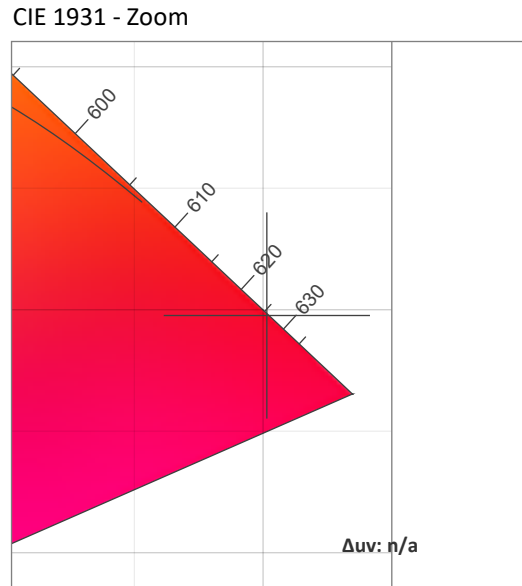
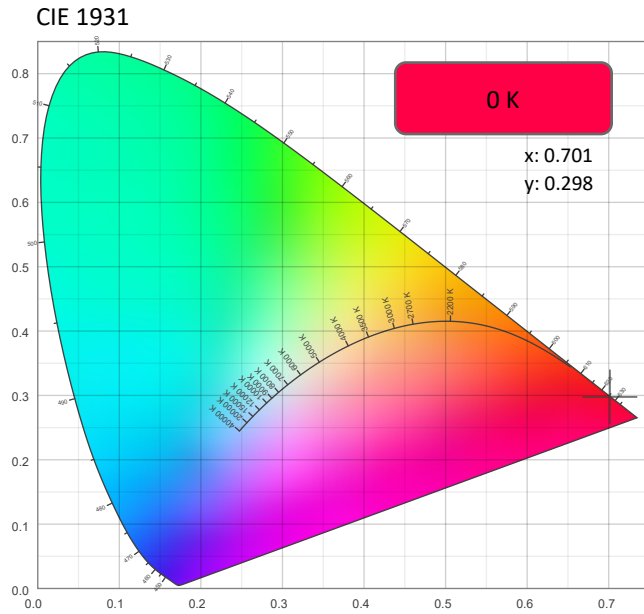
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.701	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.543

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

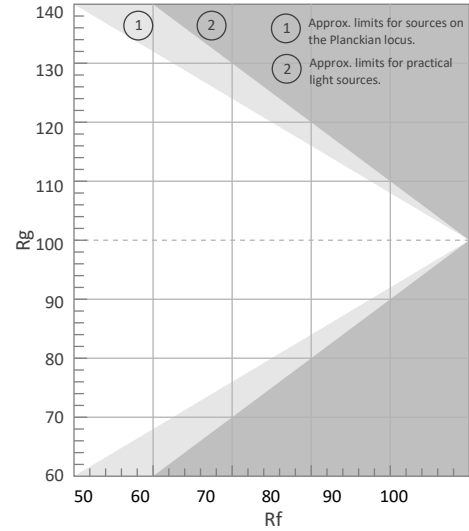
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Red Only

## TM-30 Details

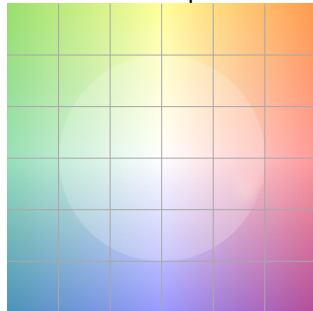
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

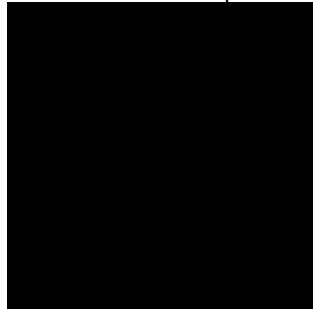
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



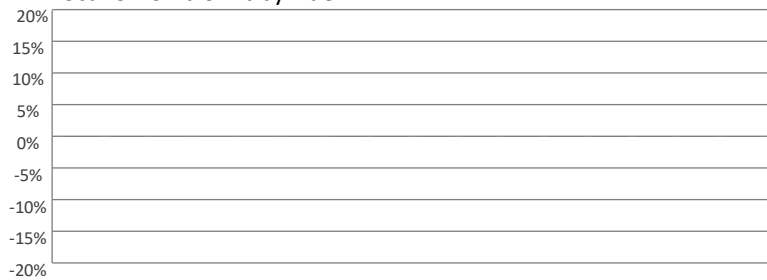
Color Distortion Graphic



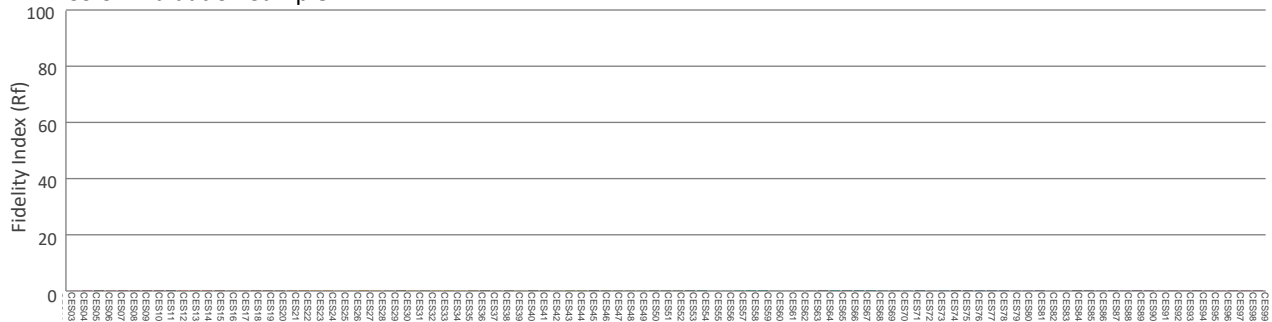
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only

## Report Summary

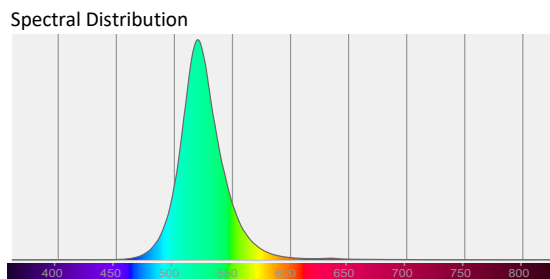
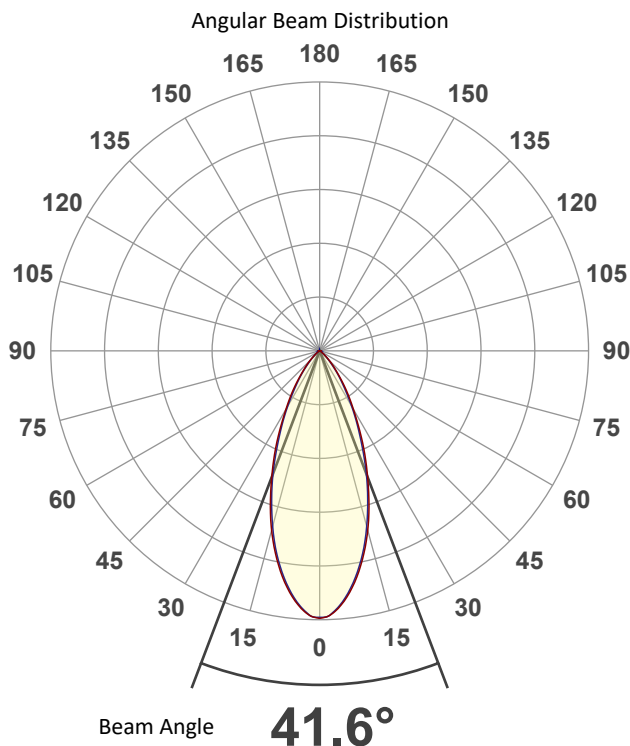
### Measurements

Fixture Output: 293 lm  
Fixture Peak: 492 cd  
Fixture Efficacy: 14 lm/W  
Intensity @ 5m: 20 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 41.6°  
Field Angle (10%): 77.9°  
Cutoff Angle (3%): 98.3°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.46 W  
Current: 0.196 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.169  
Y: 0.713



Light Quality  
CRI: 0.0

Color Temperature  
0 K

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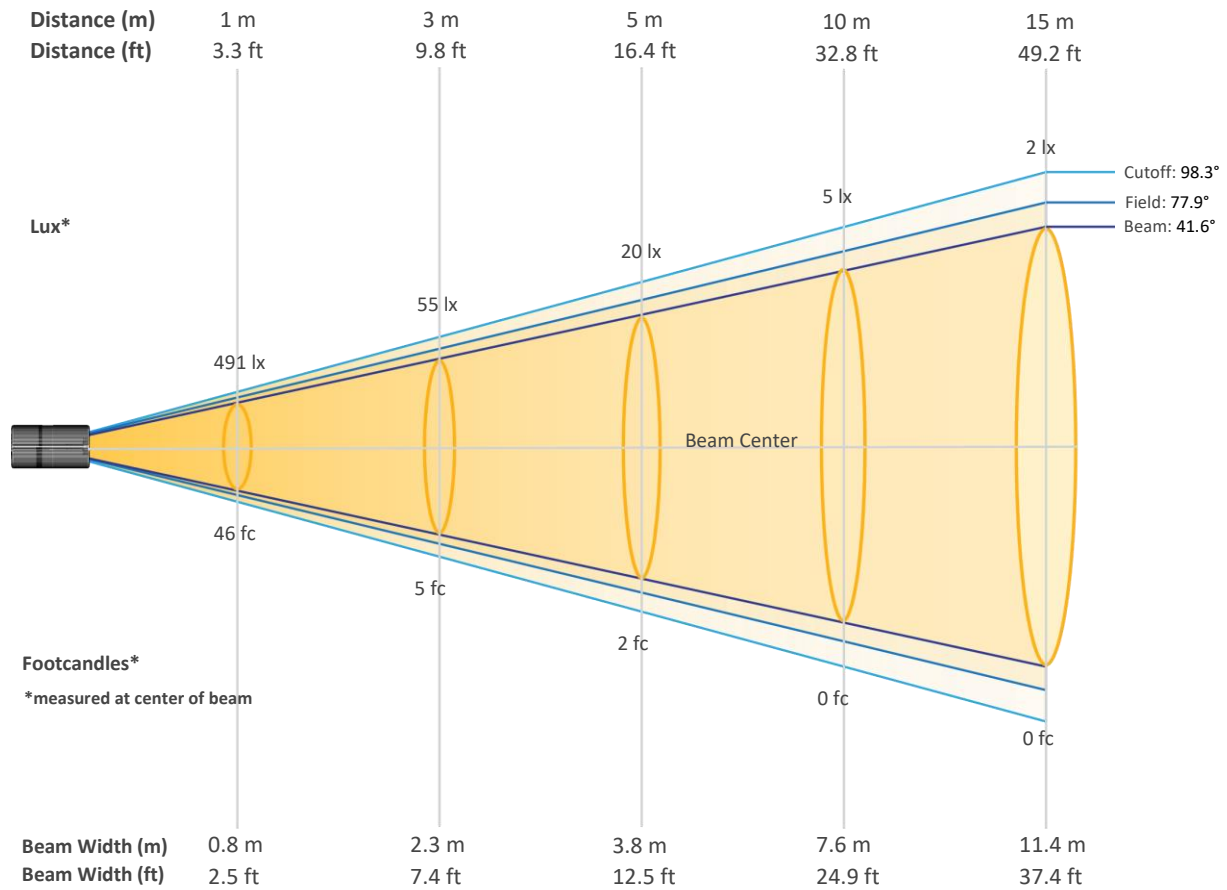
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	491	123	55	31	20	14	10	8	6	5
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	4	3	3	3	2	2	2	2	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	46	11	5	3	2	1	1	1	1	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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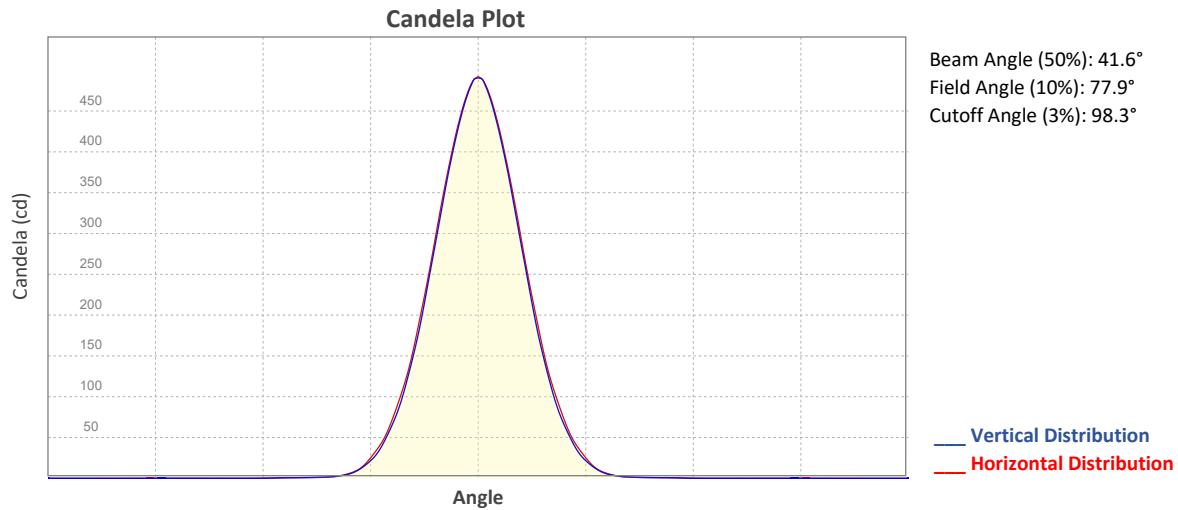
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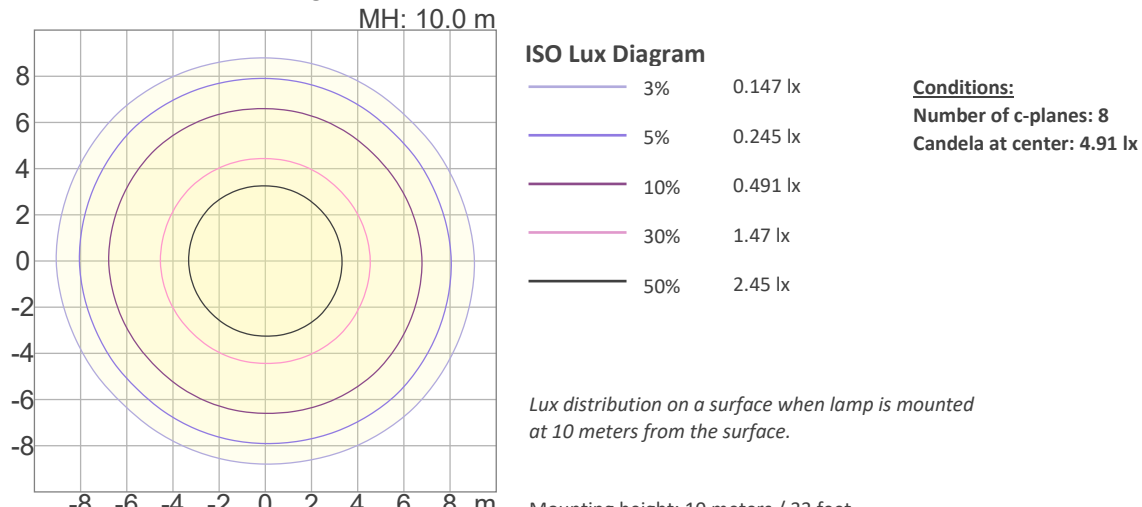
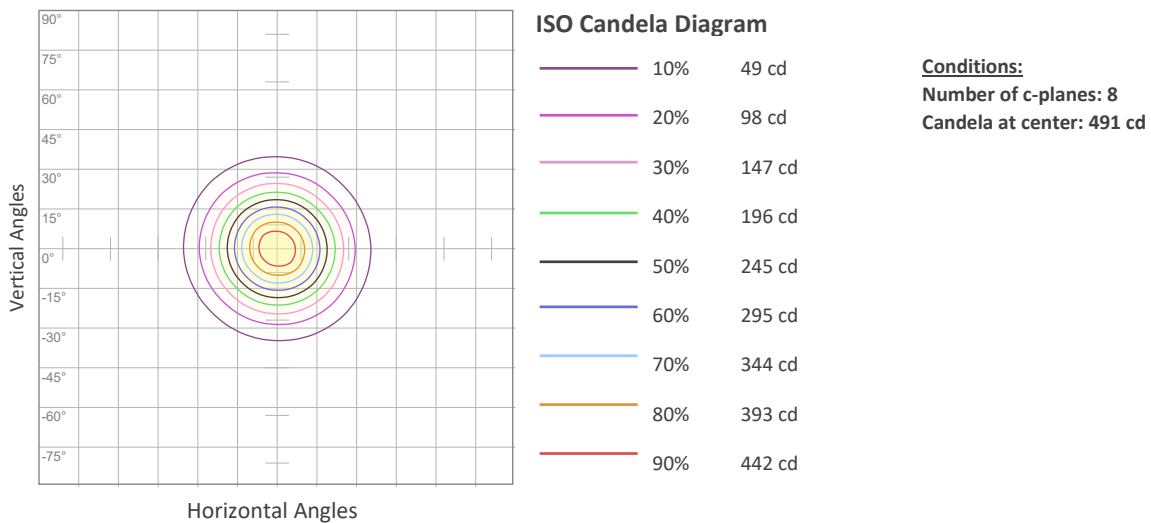
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only



## ISO Diagrams



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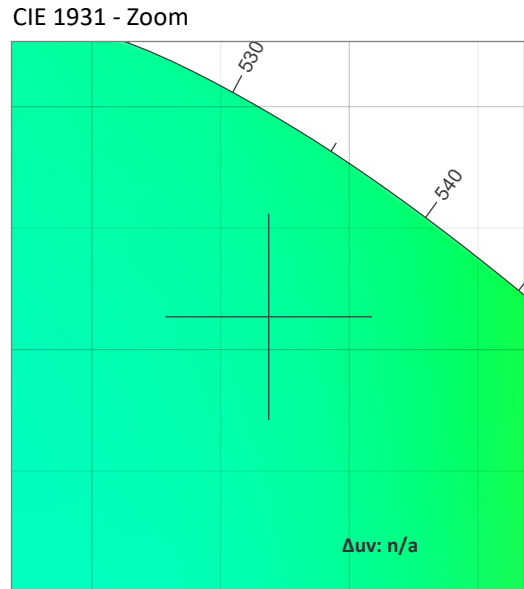
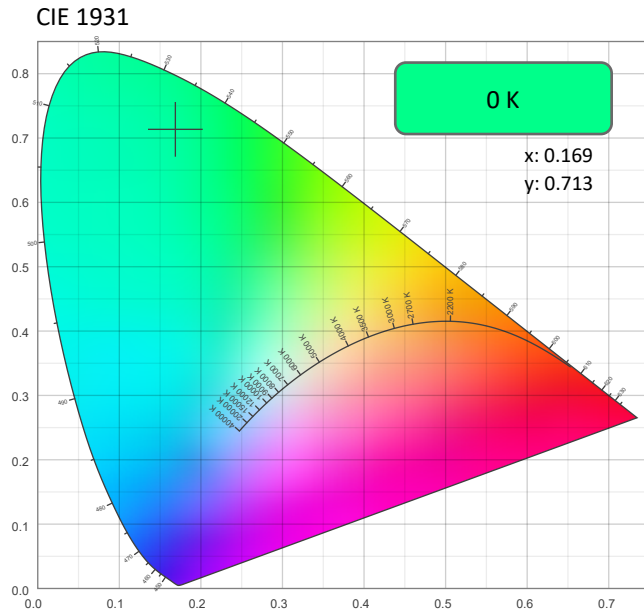
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.169	0.713

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.713	0.060

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

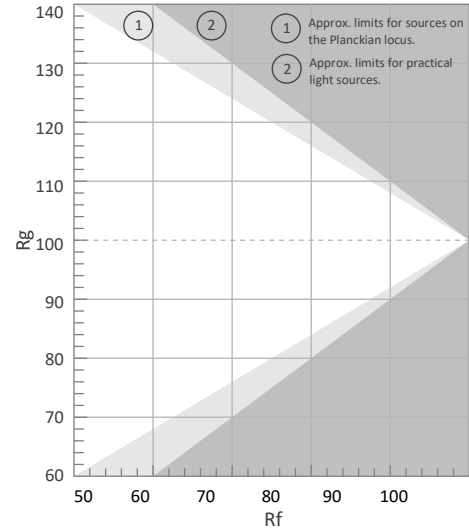
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Green Only

## TM-30 Details

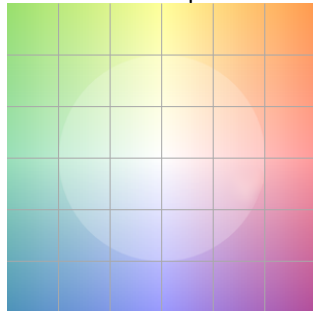
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

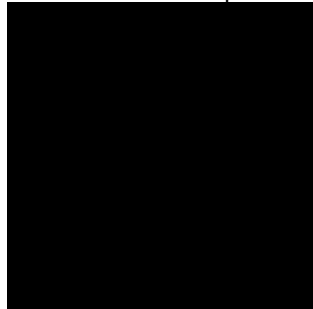
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



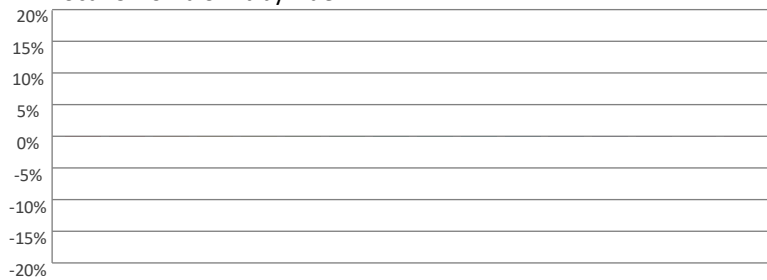
Color Distortion Graphic



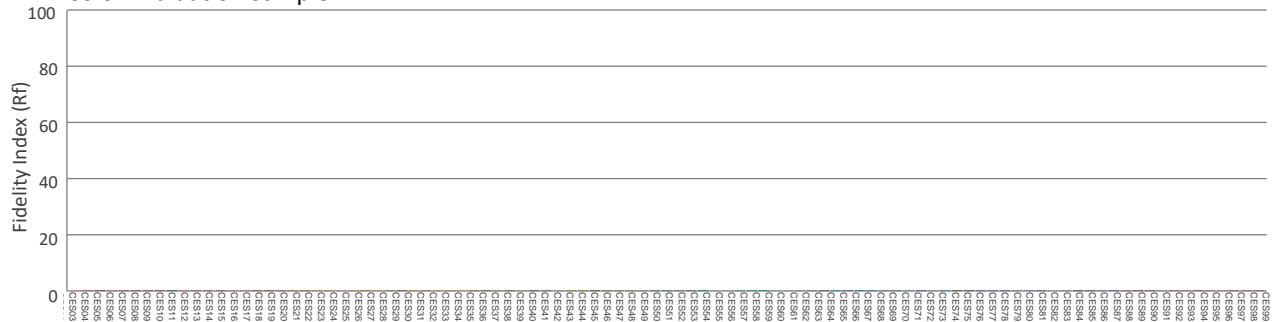
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only

## Report Summary

### Measurements

Fixture Output: 89.5 lm

Fixture Peak: 142 cd

Fixture Efficacy: 4 lm/W

Intensity @ 5m: 6 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 43°

Field Angle (10%): 79.8°

Cutoff Angle (3%): 100.2°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 23.4 W

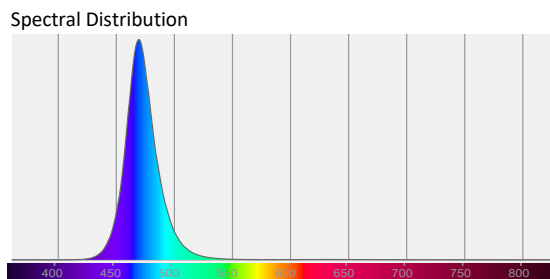
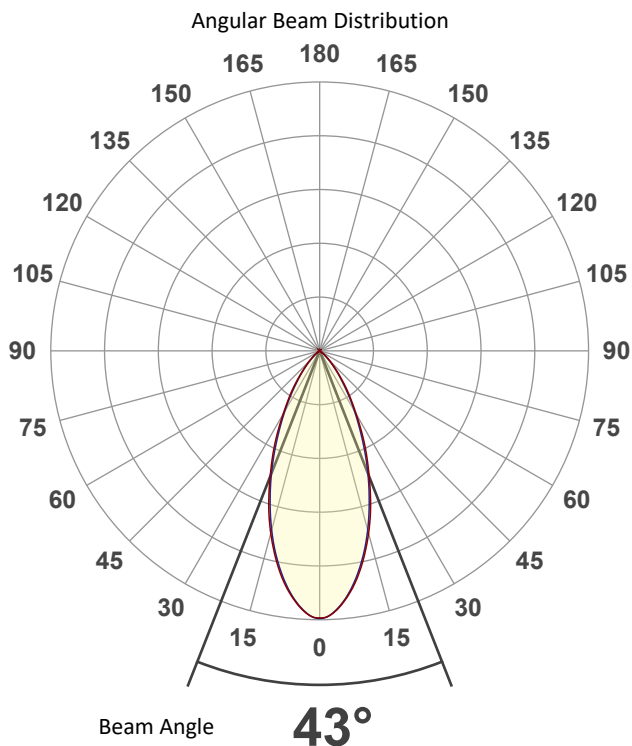
Current: 0.195 A

Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

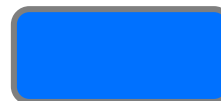
## Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.088

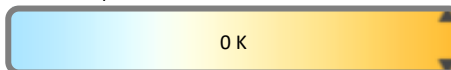


Light Quality

CRI: 0.0

Color Temperature

0 K



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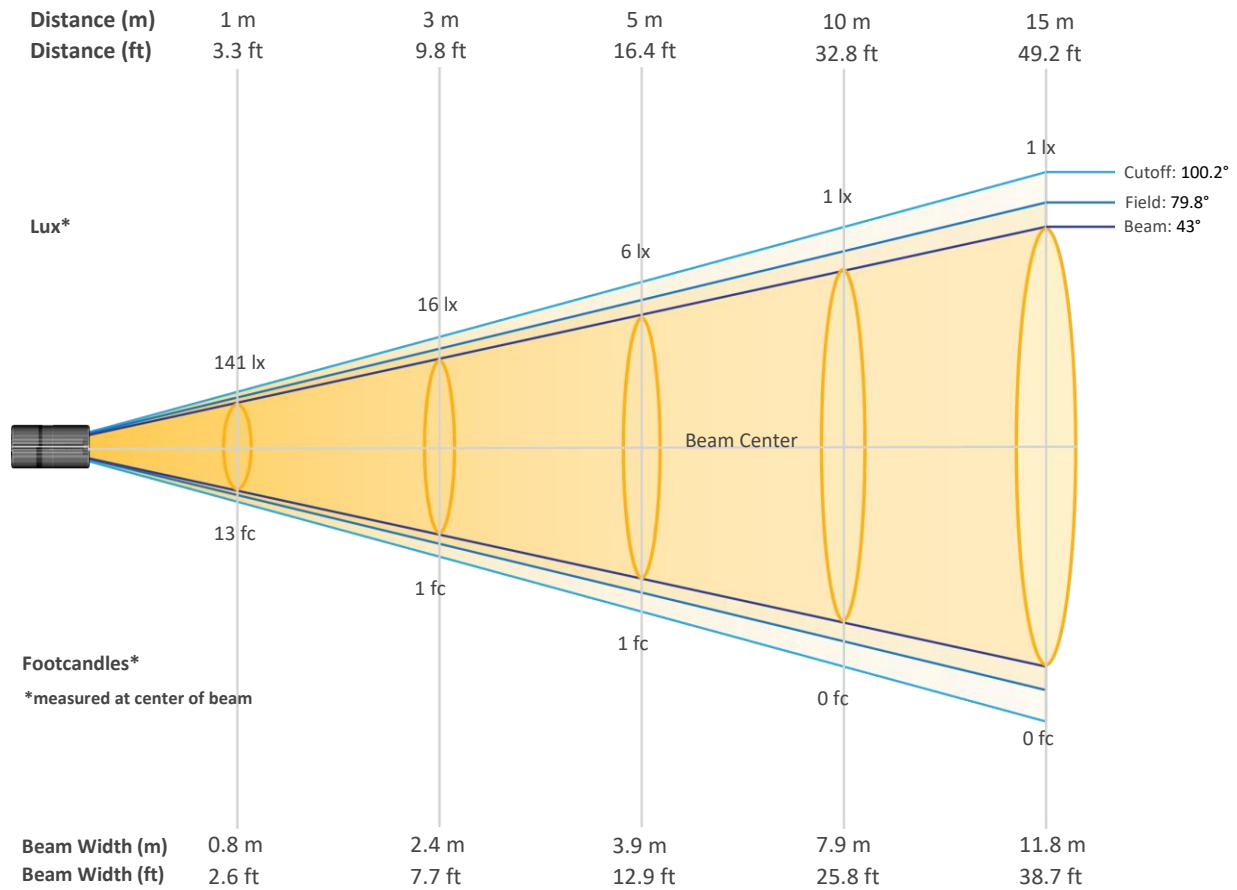
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only

## Beam Details



### Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	141	35	16	9	6	4	3	2	2	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	13	3	1	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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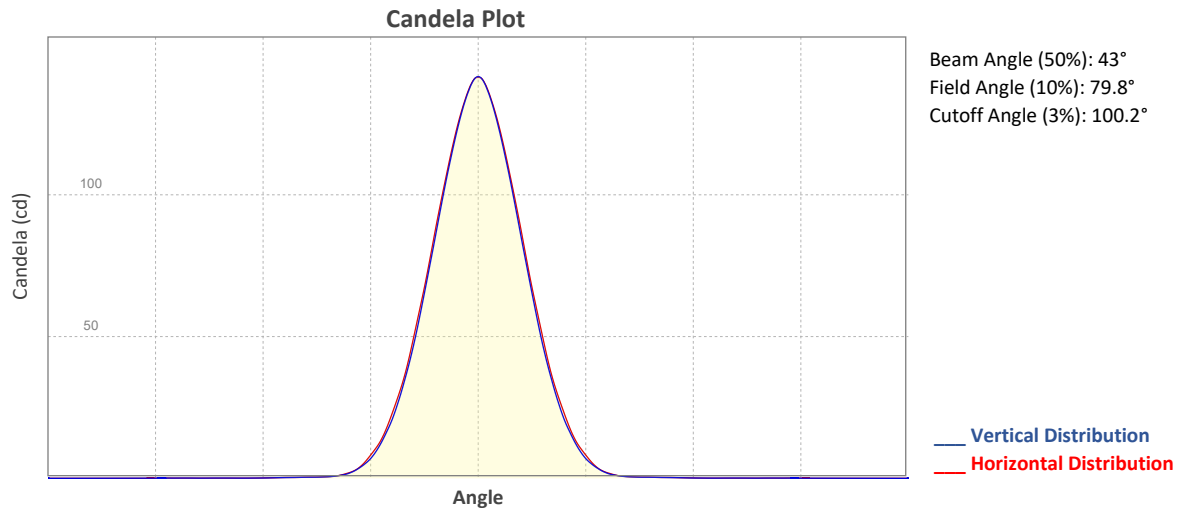
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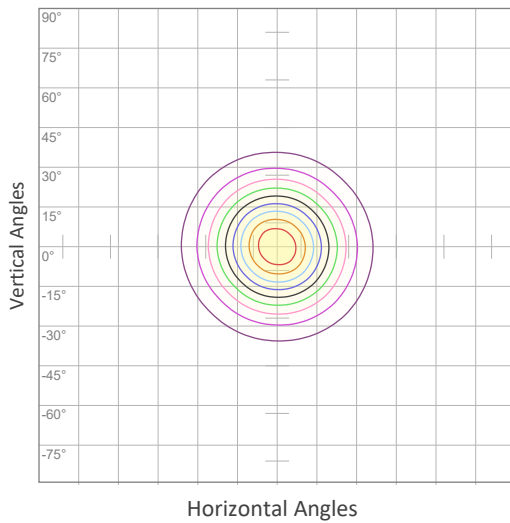
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only



## ISO Diagrams

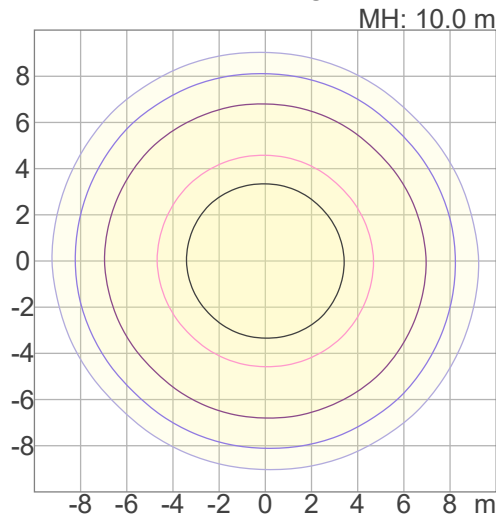


ISO Candela Diagram

10%	14 cd
20%	28 cd
30%	42 cd
40%	57 cd
50%	71 cd
60%	85 cd
70%	99 cd
80%	113 cd
90%	127 cd

**Conditions:**

Number of c-planes: 8  
 Candela at center: 141 cd



ISO Lux Diagram

3%	42.4m lx
5%	70.7m lx
10%	0.141 lx
30%	0.424 lx
50%	0.707 lx

**Conditions:**

Number of c-planes: 8  
 Candela at center: 1.41 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

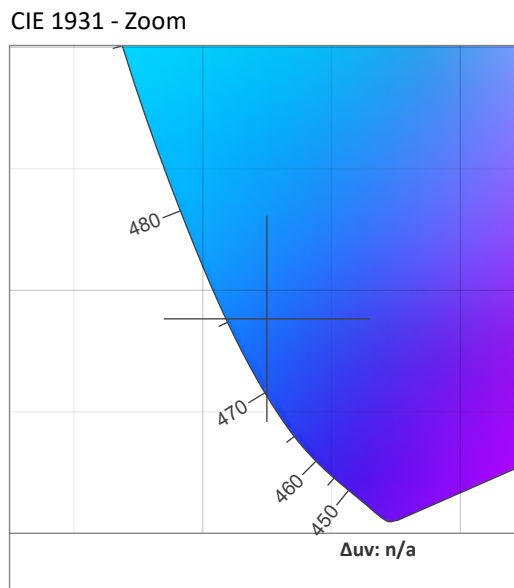
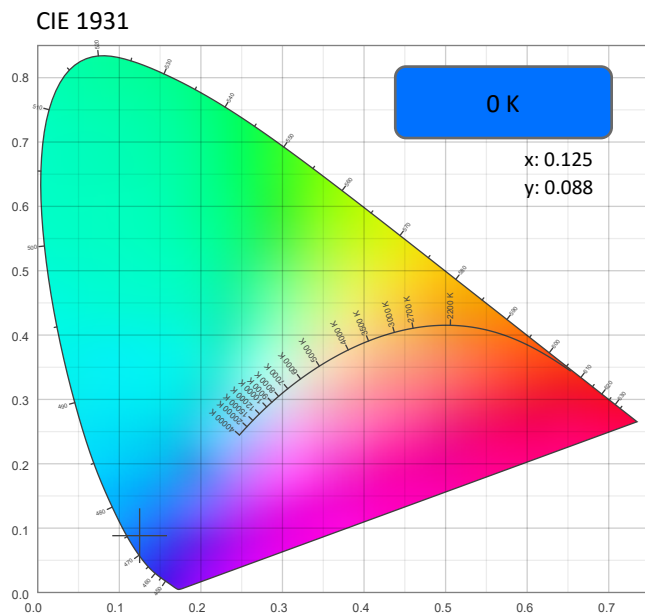
Mounting height: 10 meters / 33 feet



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.131

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

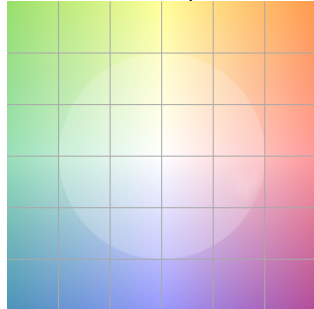
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Blue Only

## TM-30 Details

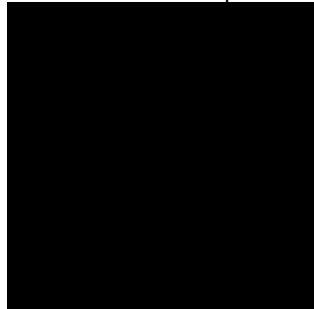
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

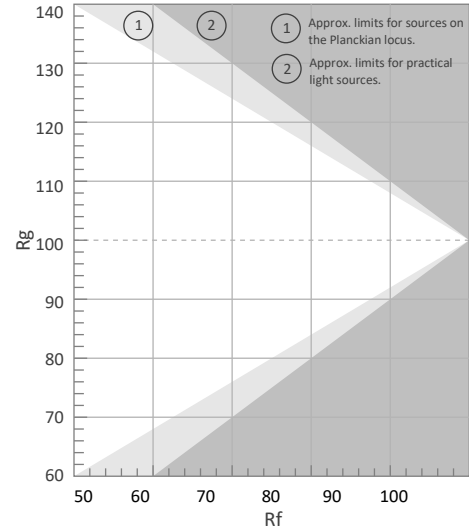
Color Vector Graphic



Color Distortion Graphic



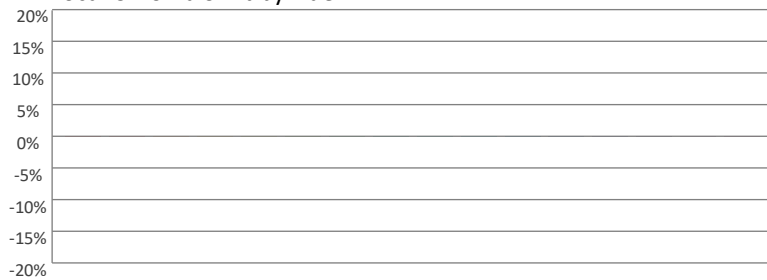
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



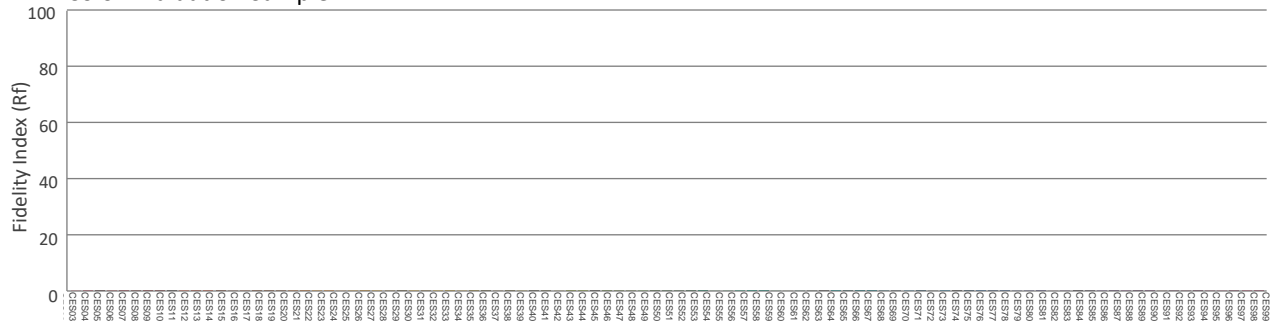
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

## Report Summary

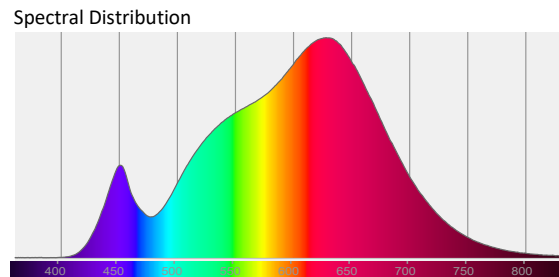
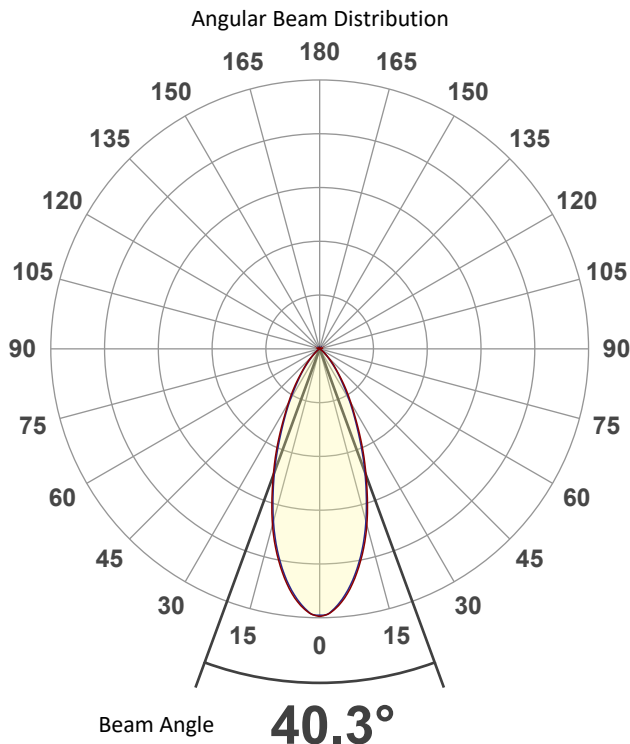
### Measurements

Fixture Output: 211 lm  
 Fixture Peak: 371 cd  
 Fixture Efficacy: 11 lm/W  
 Intensity @ 5m: 15 lux  
 Color Temperature: 2992 K  
 CRI: 93.2      CRI R9 Value: 70.7  
 CQS: 91.2  
 TLCI: 92  
 TM-30 Rf: 92.0  
 TM-30 Rg: 101.6  
 Beam Angle (50%): 40.3°  
 Field Angle (10%): 76.4°  
 Cutoff Angle (3%): 96.9°  
**Conditions**  
 AC Supply: 120 V, 60 Hz  
 Power: 22.53 W  
 Current: 0.188 A  
 Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
 X: 0.439  
 Y: 0.406



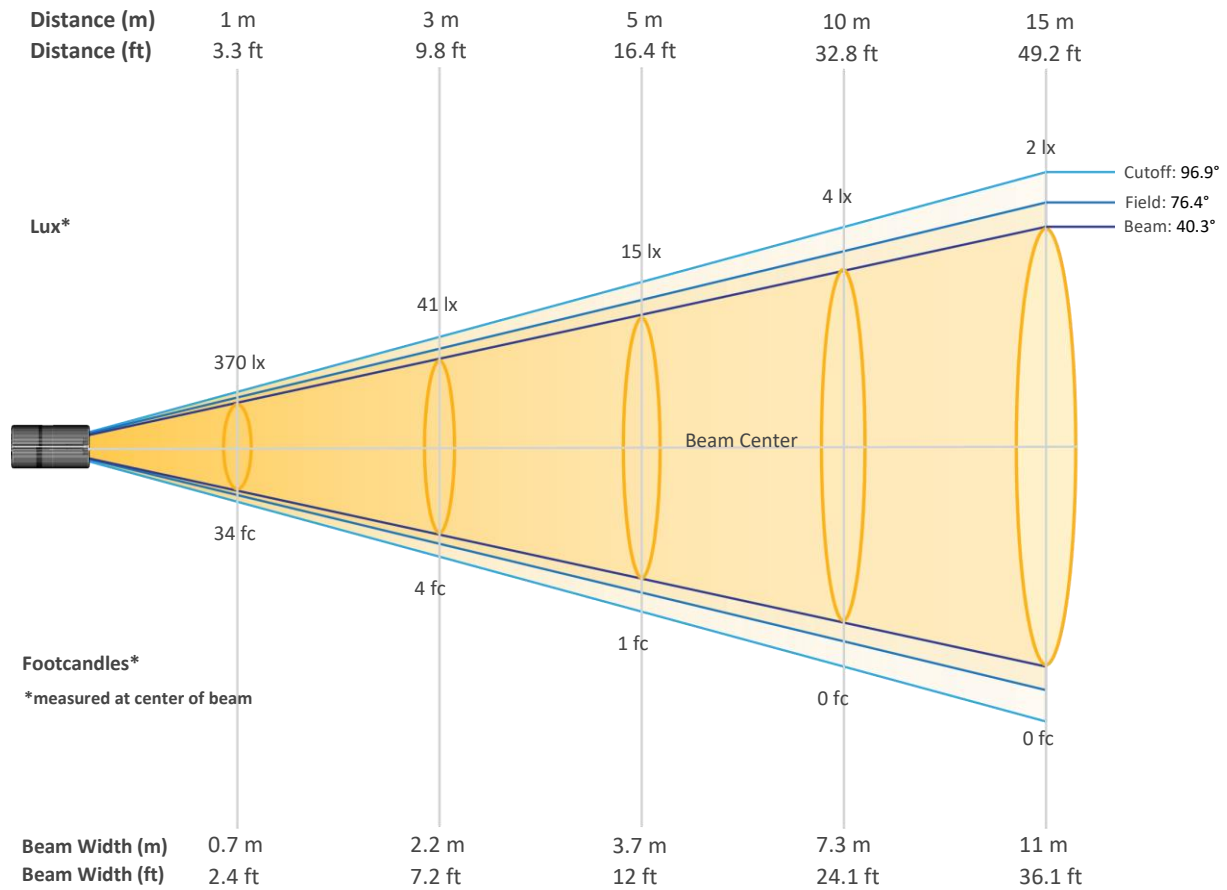
Light Quality  
 CRI: 93.2

Color Temperature  
 2992 K

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	370	93	41	23	15	10	8	6	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	34	9	4	2	1	1	1	1	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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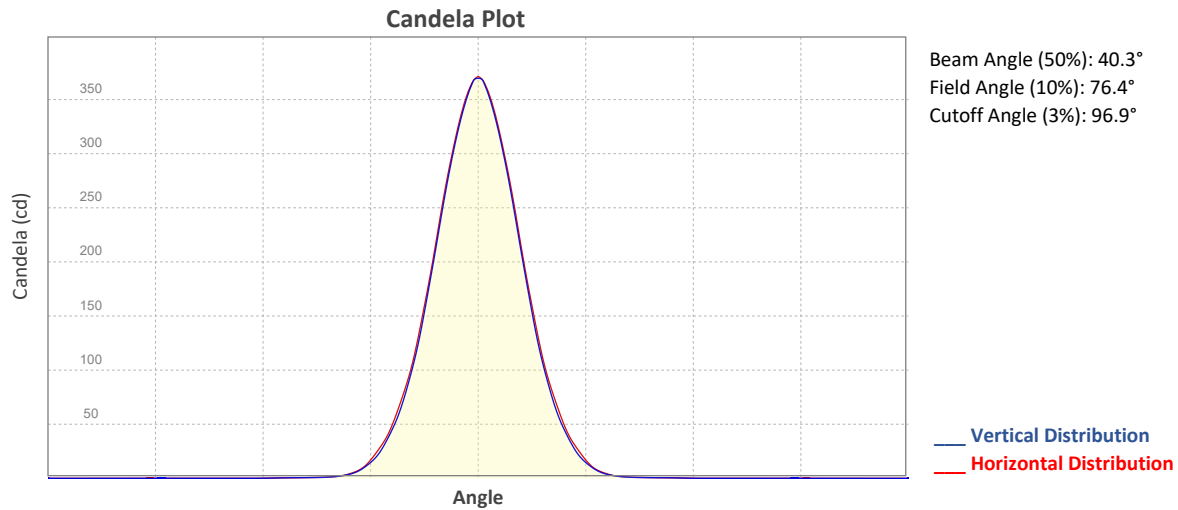
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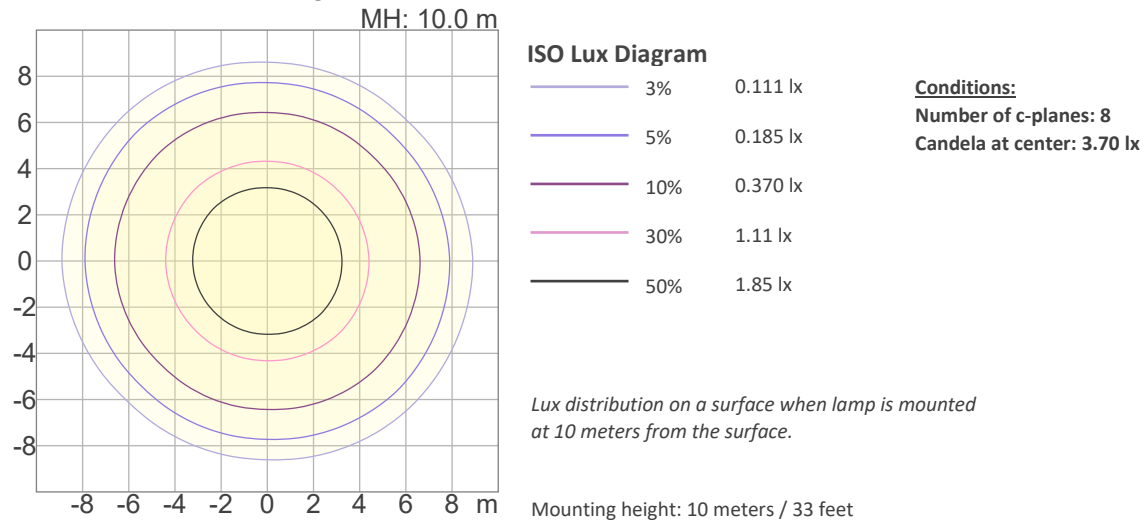
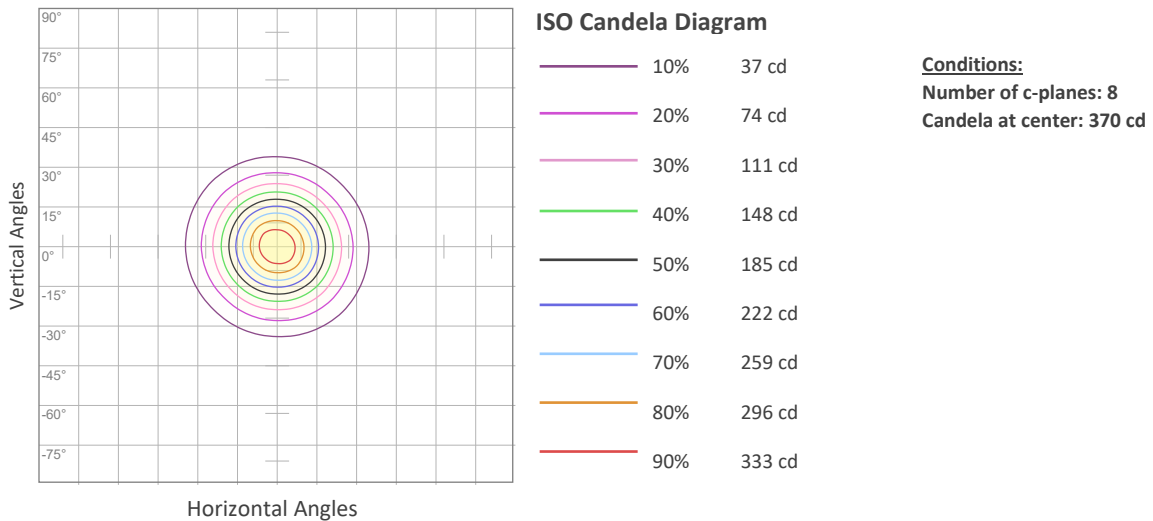
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only



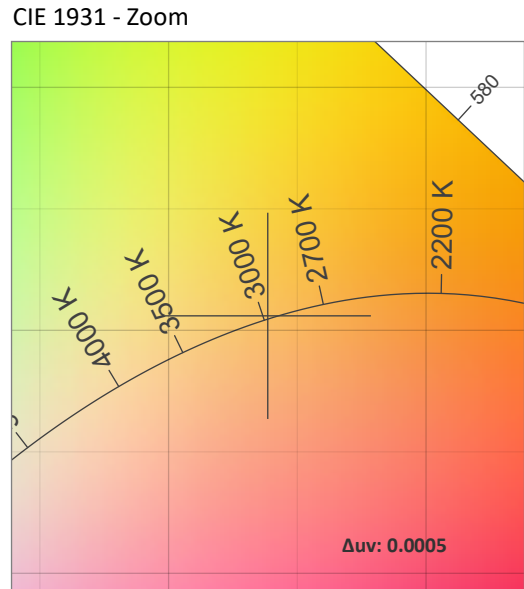
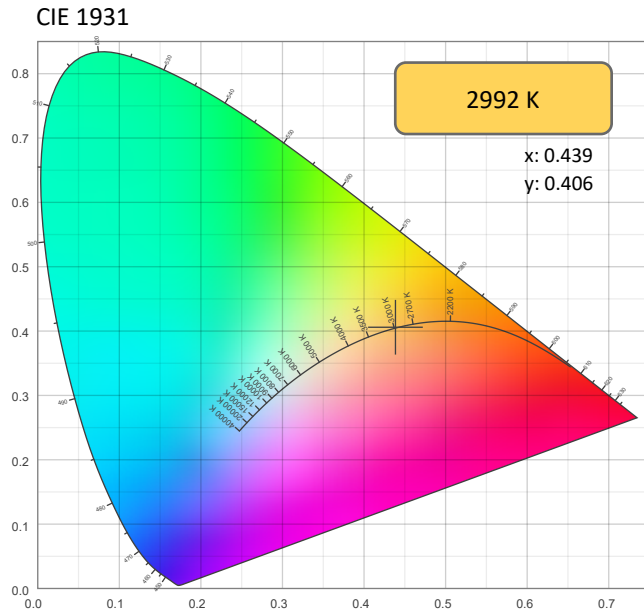
## ISO Diagrams



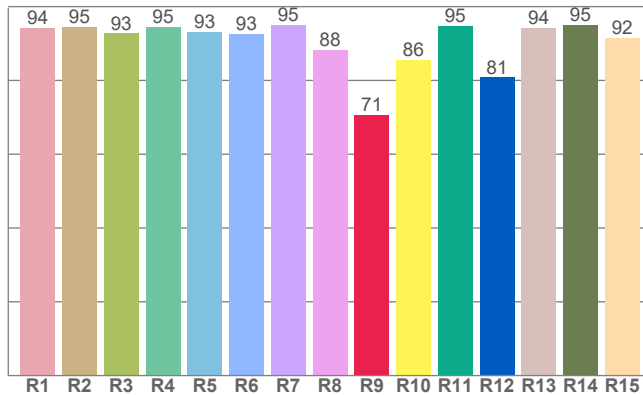
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

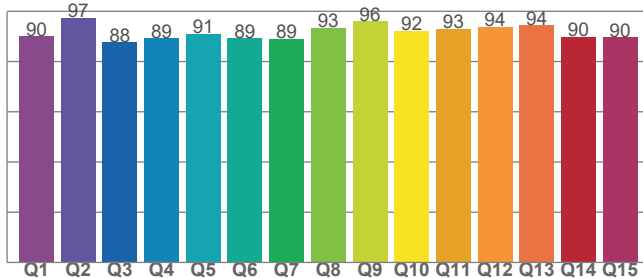
## Chromaticity



### CRI: 93.2 (R1-R8)



### CQS: 91.2



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2992 K	0.439	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0005	0.406	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.2	70.7	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	92.0	101.6

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# Photometric & Chromaticity Report

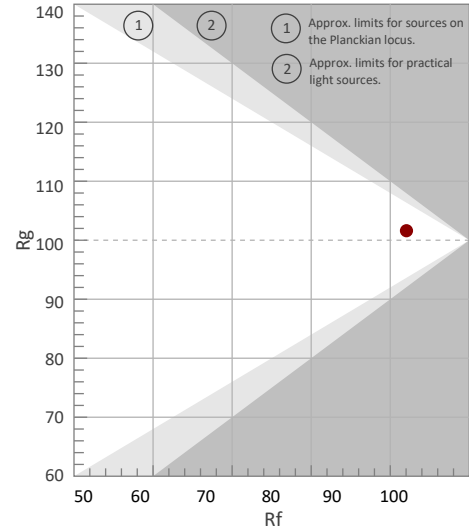
Logic AR111 Downlight M: Medium Filter Lens with Honeycomb - Warm White Only

## TM-30 Details

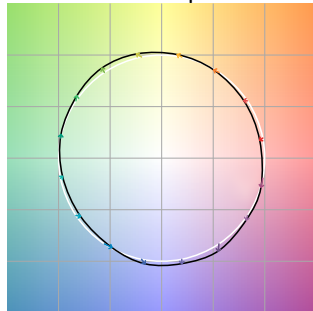
**Rf 92.0**  
Fidelity Index (Rg)

**Rg 101.6**  
Gammut Index (Rg)

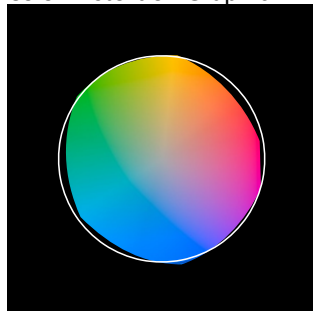
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	5%
4	92	1%	5%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-3%
9	95	-2%	-1%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	92	2%	-4%
16	89	0%	-9%



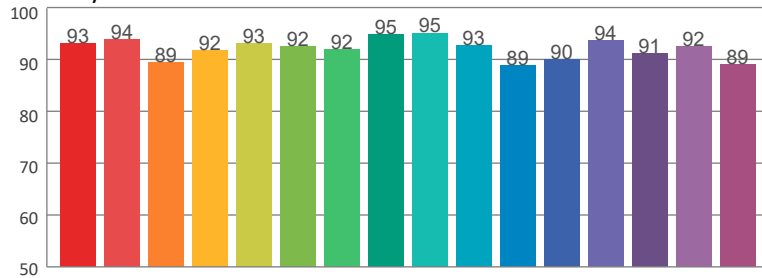
Color Vector Graphic



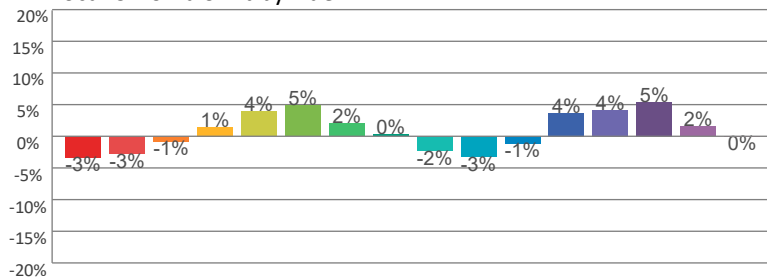
Color Distortion Graphic



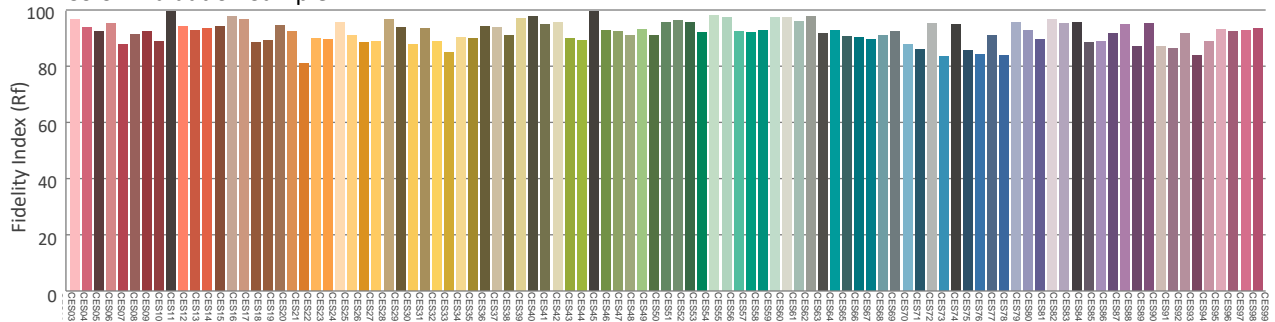
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

## Report Summary

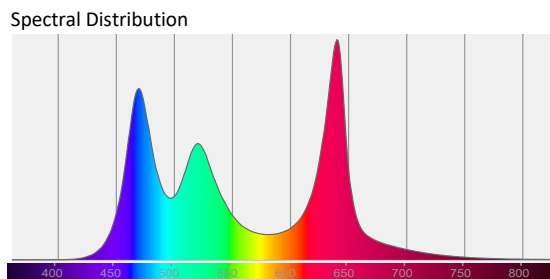
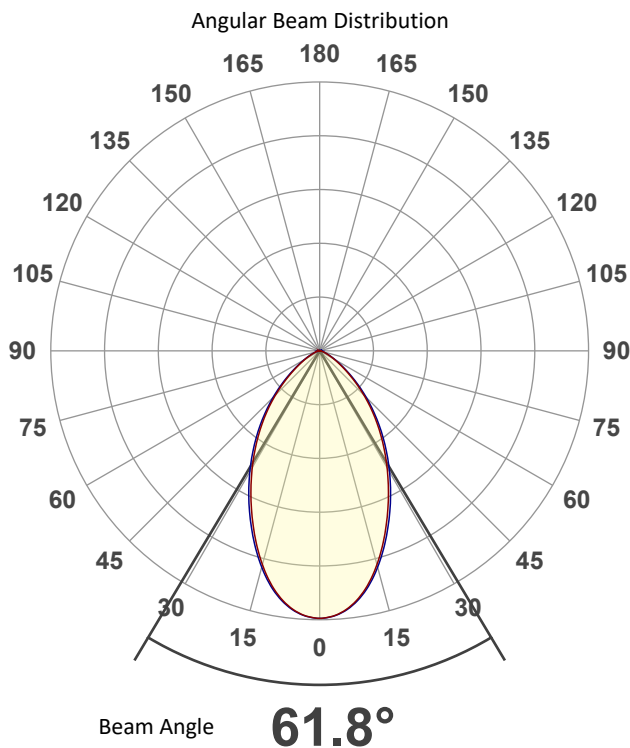
### Measurements

Fixture Output: 1062 lm  
Fixture Peak: 876 cd  
Fixture Efficacy: 27 lm/W  
Intensity @ 5m: 35 lux  
Color Temperature: 6522 K  
CRI: 48.7      CRI R9 Value: -161.7  
CQS: 61.4  
TLCI: 26  
TM-30 Rf: 60.2  
TM-30 Rg: 102.4  
Beam Angle (50%): 61.8°  
Field Angle (10%): 111.4°  
Cutoff Angle (3%): 137.8°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 40.89 W  
Current: 0.342 A  
Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

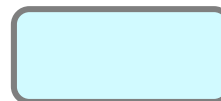
## Overall Measurement



Tested Color (CIE 1931):

X: 0.313

Y: 0.329



Light Quality

CRI: 48.7

Color Temperature

6522 K

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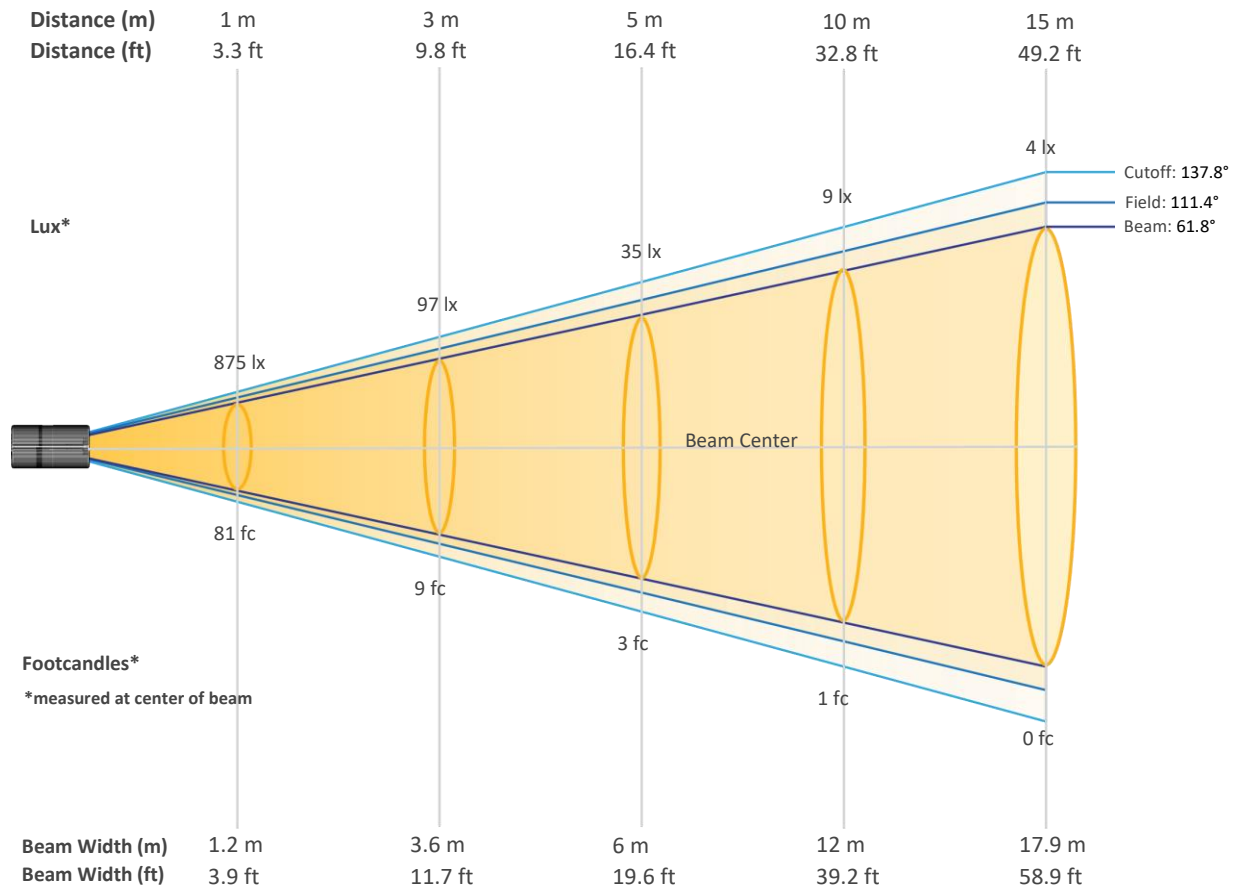
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	875	219	97	55	35	24	18	14	11	9
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	7	6	5	4	4	3	3	3	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	81	20	9	5	3	2	2	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	0	0	0	0	0	0	0	0

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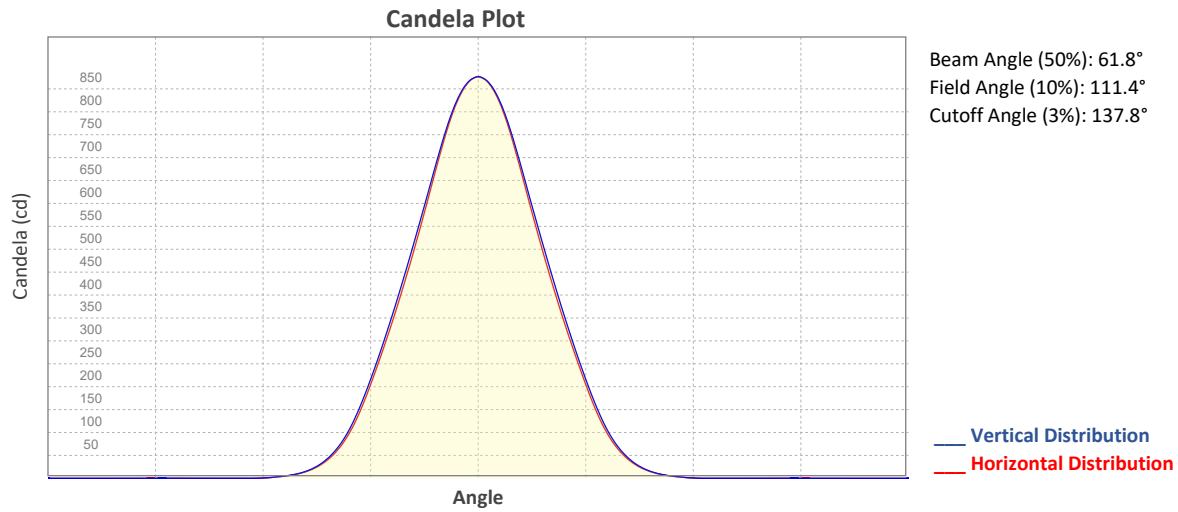
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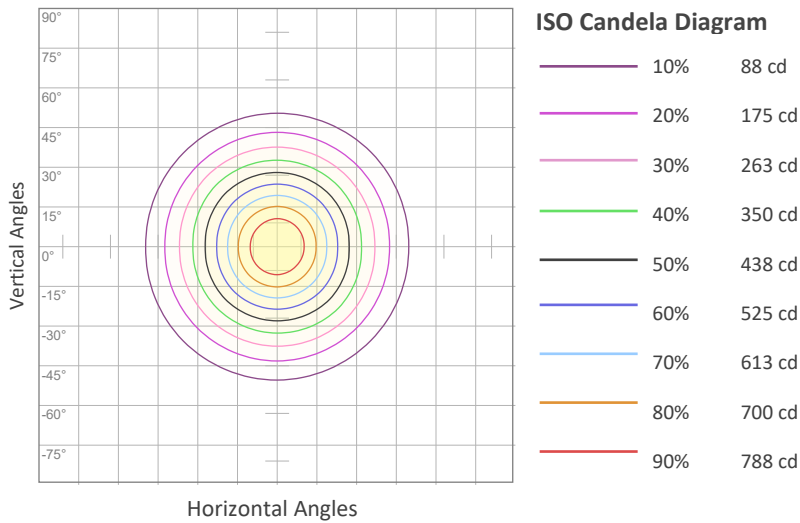
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# Photometric & Chromaticity Report

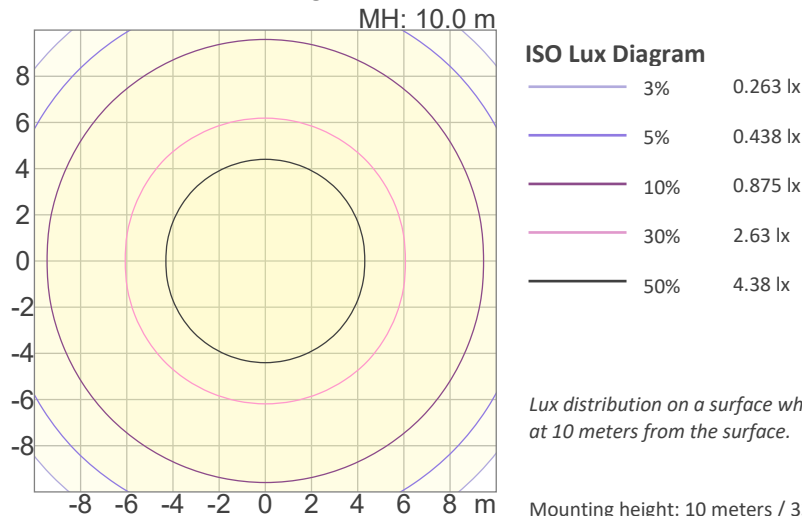
Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 875 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 8.75 lx

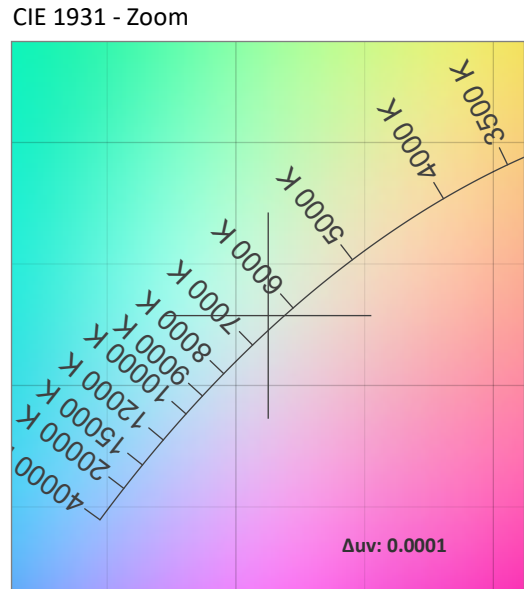
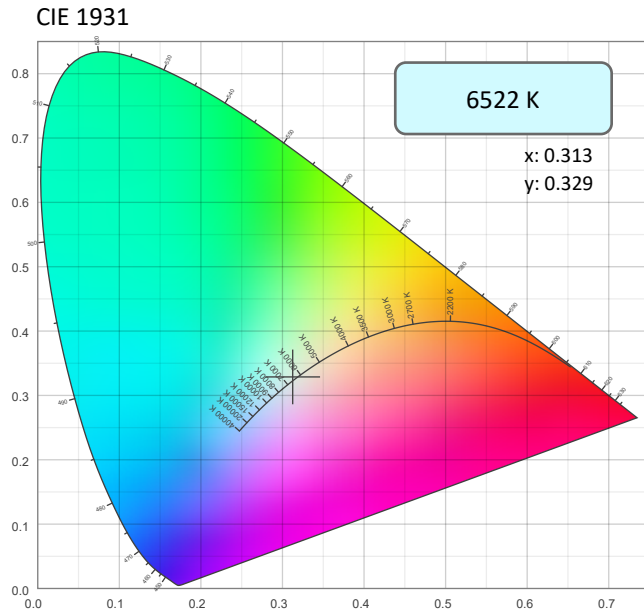
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

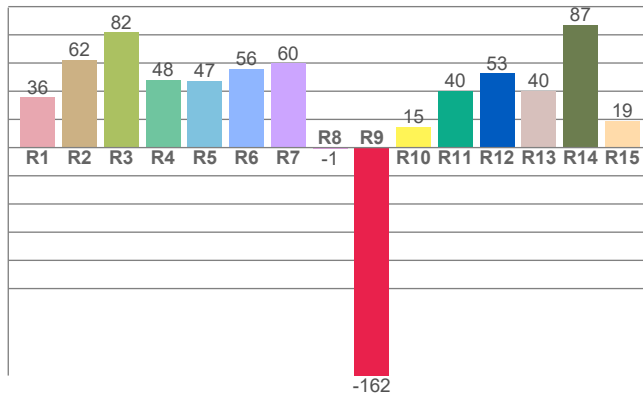
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

## Chromaticity



CRI: 48.7 (R1-R8)



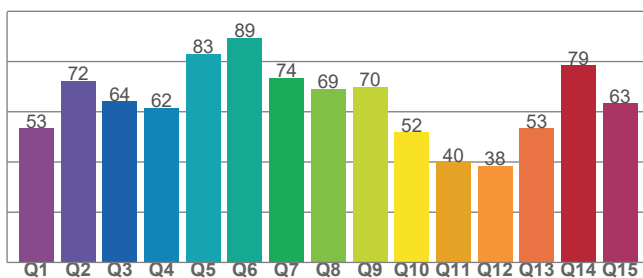
Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6522 K	0.313	0.329

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.329	0.198

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.7	-161.7	61.4

CQS: 61.4



Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	60.2	102.4

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# Photometric & Chromaticity Report

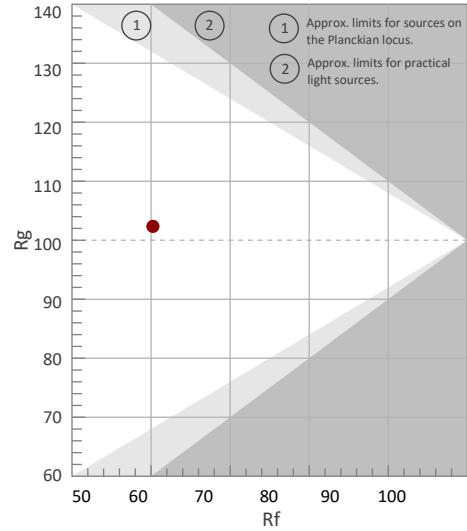
Logic AR111 Downlight M: Wide Filter Lens - RGBW - Full Power

## TM-30 Details

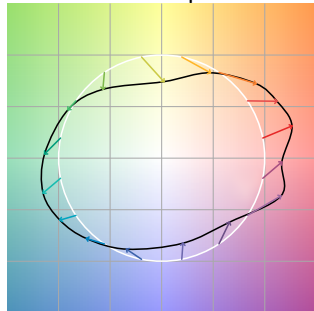
**Rf 60.2**  
Fidelity Index (Rg)

**Rg 102.4**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	43	30%	6%
2	56	24%	-16%
3	37	11%	-36%
4	49	-10%	-30%
5	51	-28%	-17%
6	74	-13%	10%
7	81	2%	11%
8	64	12%	18%
9	73	19%	11%
10	72	15%	-5%
11	65	5%	-17%
12	73	-7%	-16%
13	72	-15%	4%
14	61	-12%	20%
15	52	17%	34%
16	60	15%	19%



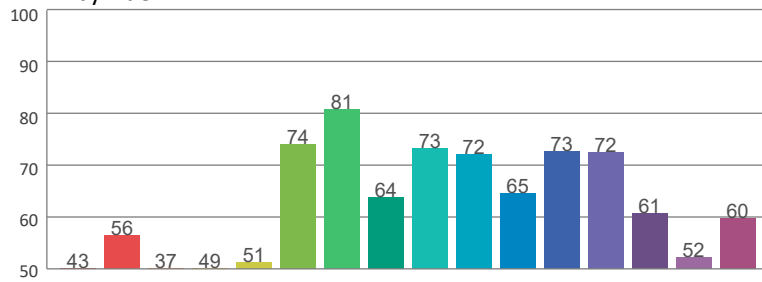
Color Vector Graphic



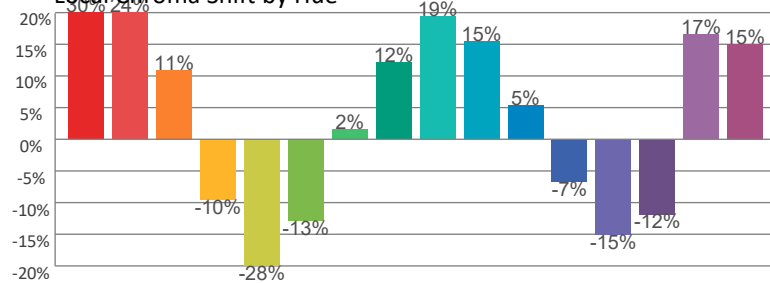
Color Distortion Graphic



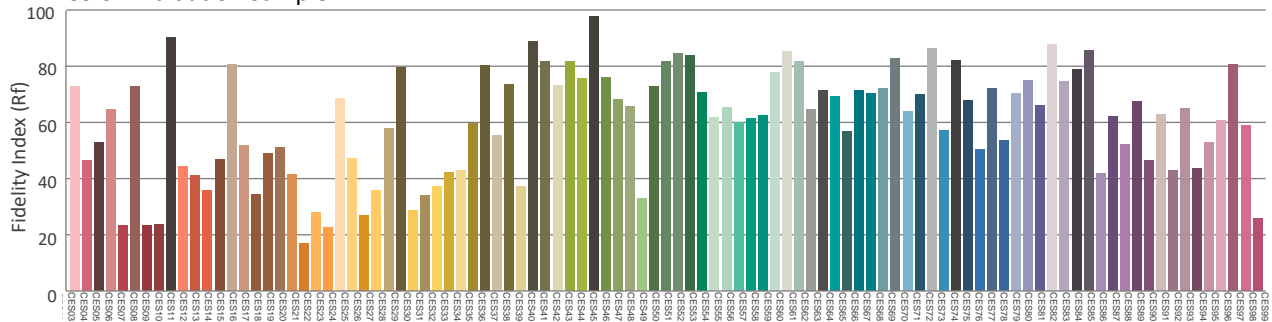
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only

## Report Summary

### Measurements

Fixture Output: 231 lm

Fixture Peak: 190 cd

Fixture Efficacy: 12 lm/W

Intensity @ 5m: 8 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 62.1°

Field Angle (10%): 111.3°

Cutoff Angle (3%): 137.3°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 21.69 W

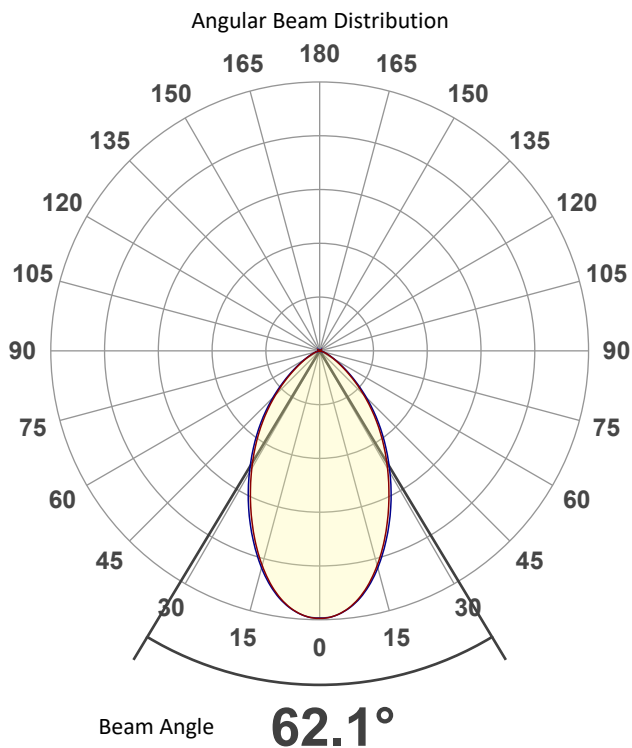
Current: 0.181 A

Power Factor: 0.88

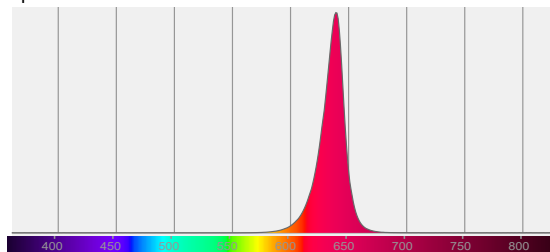


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



### Spectral Distribution



Tested Color (CIE 1931):

X: 0.702

Y: 0.298



Light Quality

CRI: 0.0

Color Temperature

0 K

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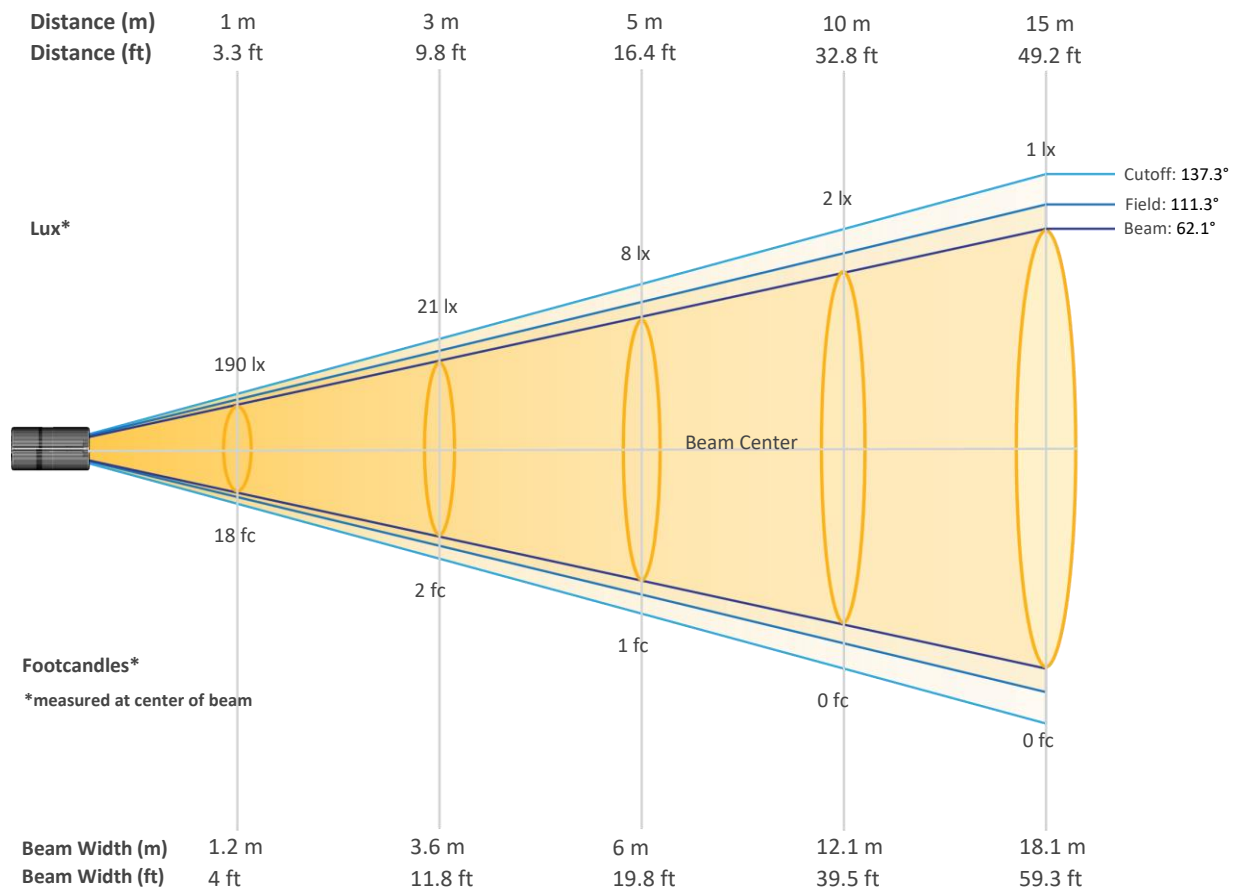
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	190	47	21	12	8	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	1	1	1	1	1	1	1	1	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	18	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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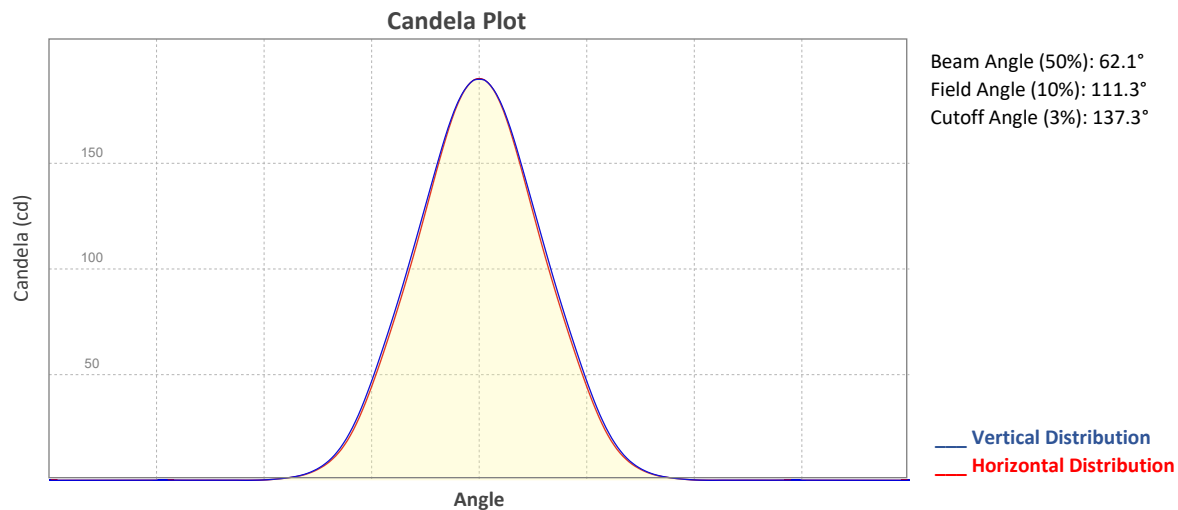
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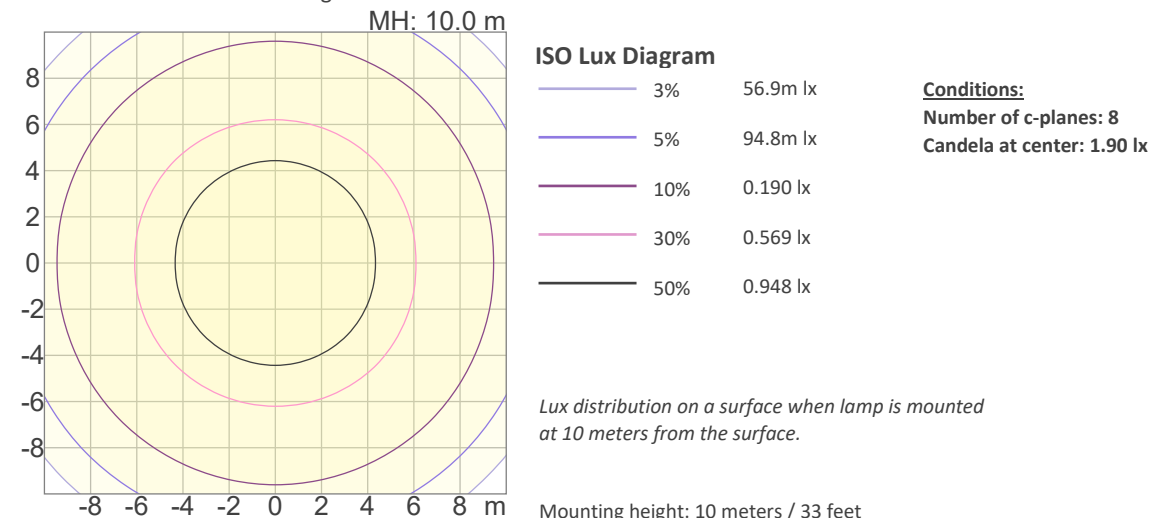
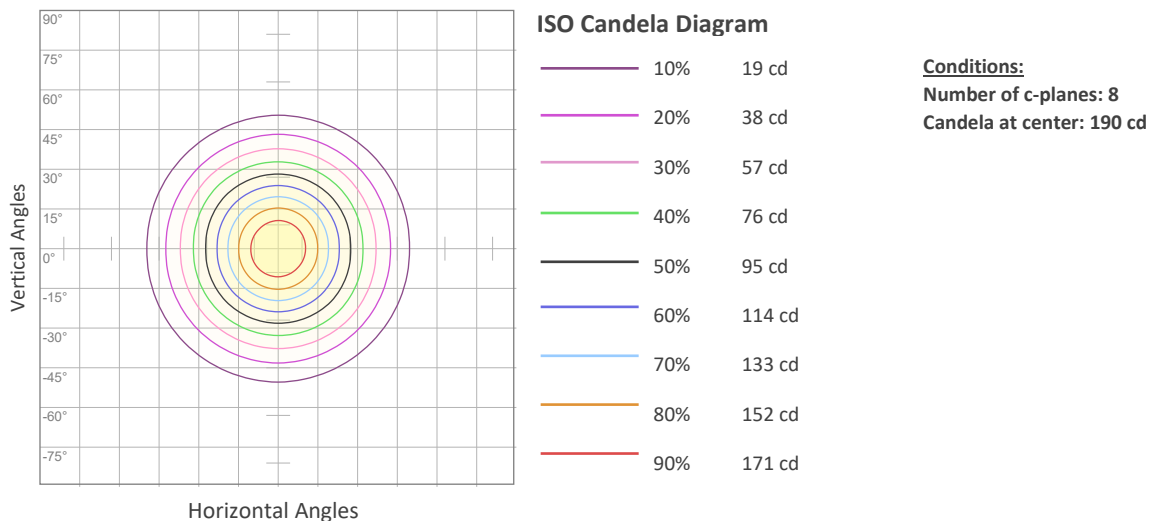
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only



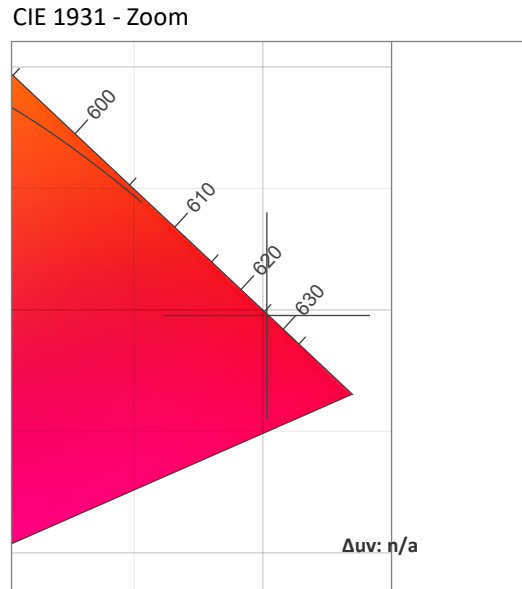
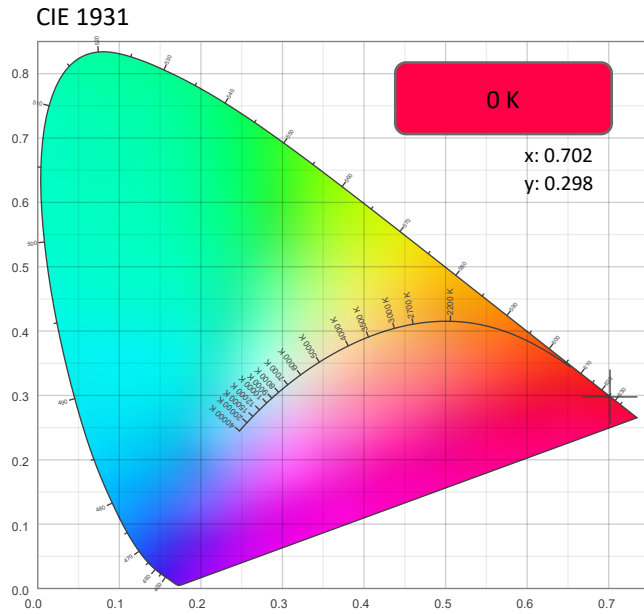
## ISO Diagrams



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Red Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.702	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.298	0.543

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

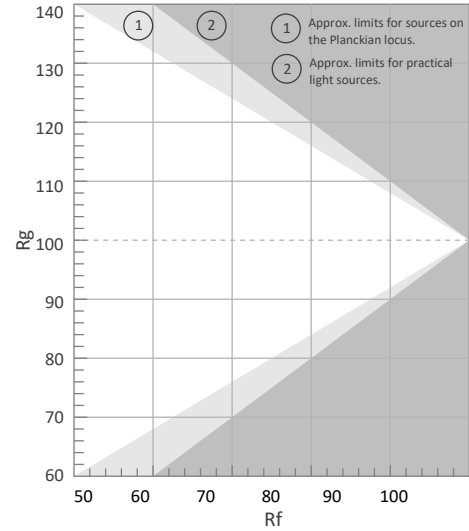
Logic AR111 Downlight M: Wide Filter Lens - Red Only

## TM-30 Details

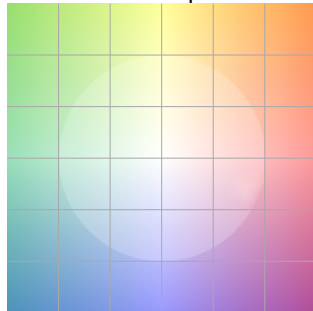
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

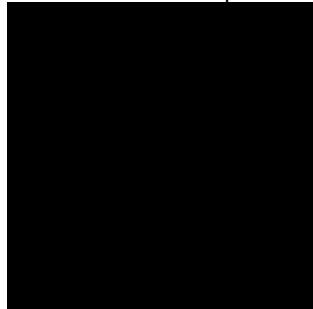
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



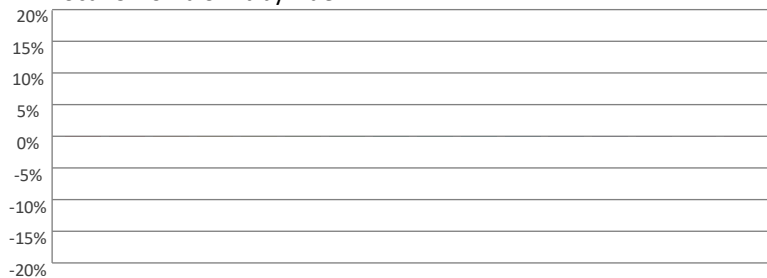
Color Distortion Graphic



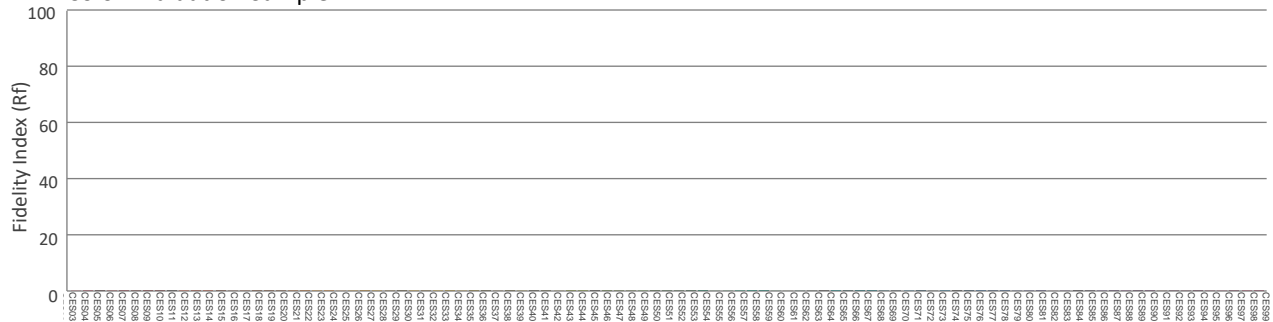
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Green Only

## Report Summary

### Measurements

Fixture Output: 502 lm

Fixture Peak: 408 cd

Fixture Efficacy: 24 lm/W

Intensity @ 5m: 16 lux

Color Temperature: 0 K

CRI: 0.0      CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 62.5°

Field Angle (10%): 112°

Cutoff Angle (3%): 138.3°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 23.48 W

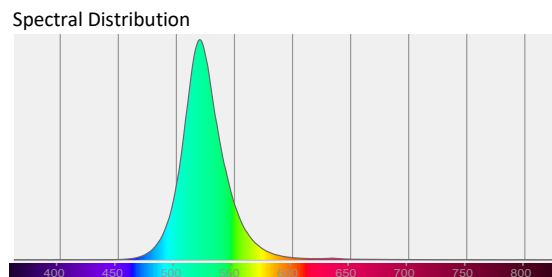
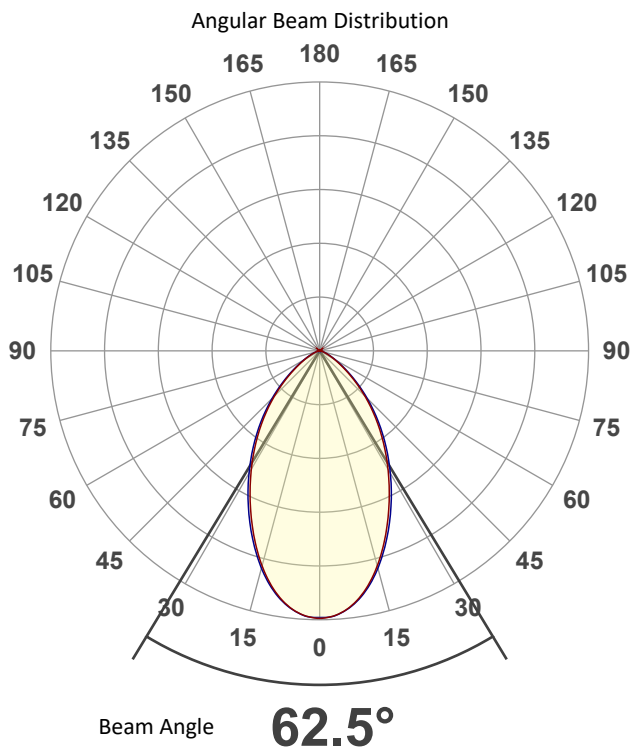
Current: 0.196 A

Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.168

Y: 0.714



Light Quality

CRI: 0.0

Color Temperature

0 K

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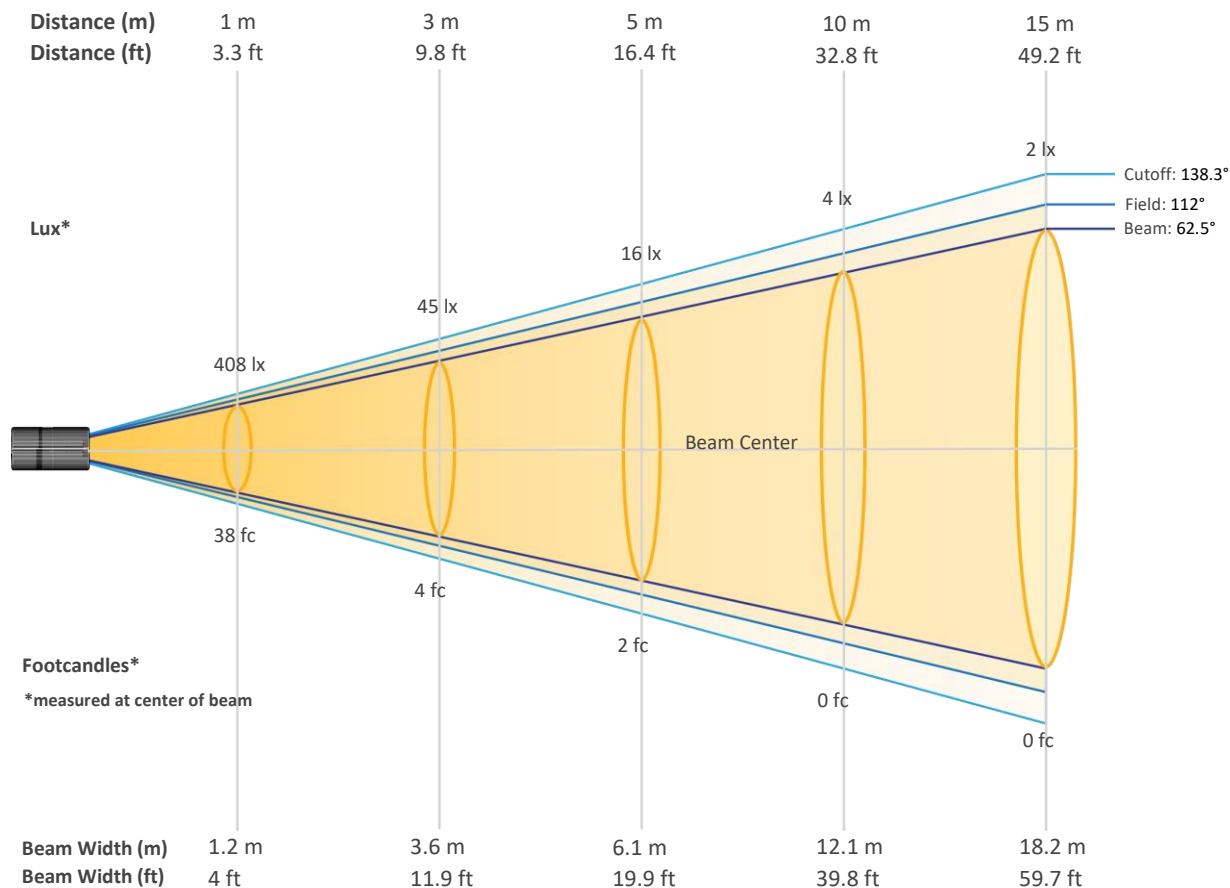
All product specifications, measurements and dimensions are subject to change without notice

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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	408	102	45	25	16	11	8	6	5	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	2	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	38	9	4	2	2	1	1	1	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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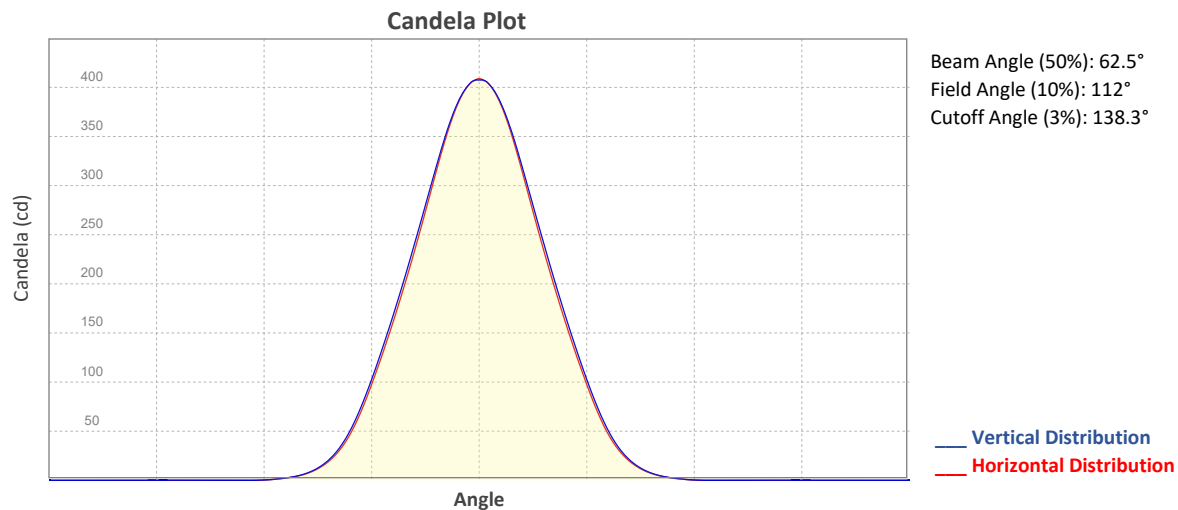
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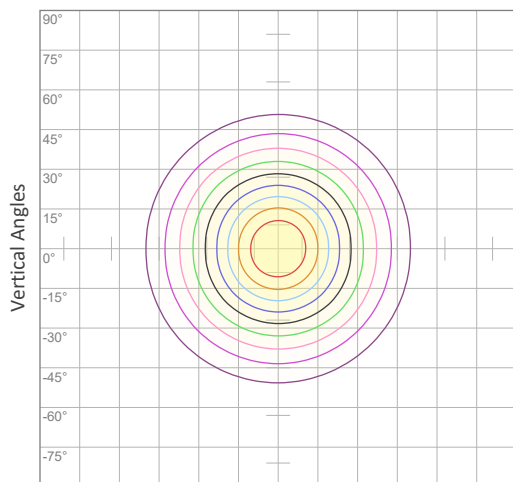
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Green Only



## ISO Diagrams

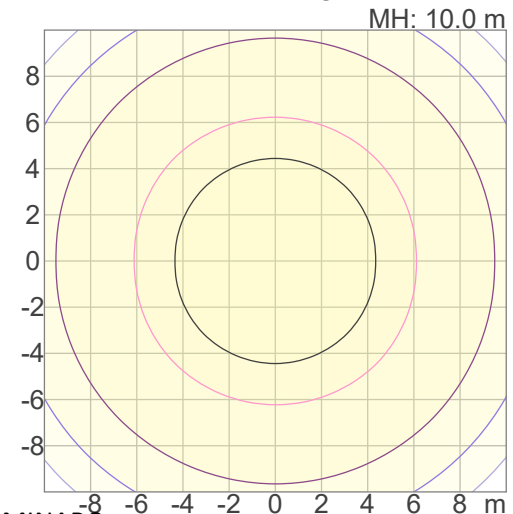


ISO Candela Diagram

10%	41 cd
20%	82 cd
30%	122 cd
40%	163 cd
50%	204 cd
60%	245 cd
70%	286 cd
80%	326 cd
90%	367 cd

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 408 cd

Horizontal Angles



ISO Lux Diagram

3%	0.122 lx
5%	0.204 lx
10%	0.408 lx
30%	1.22 lx
50%	2.04 lx

**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 4.08 lx

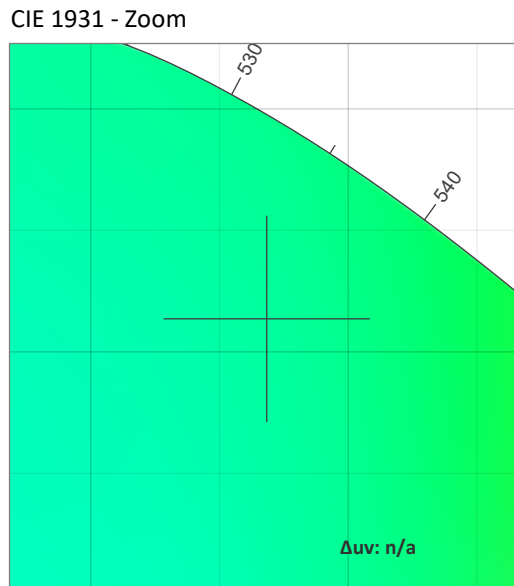
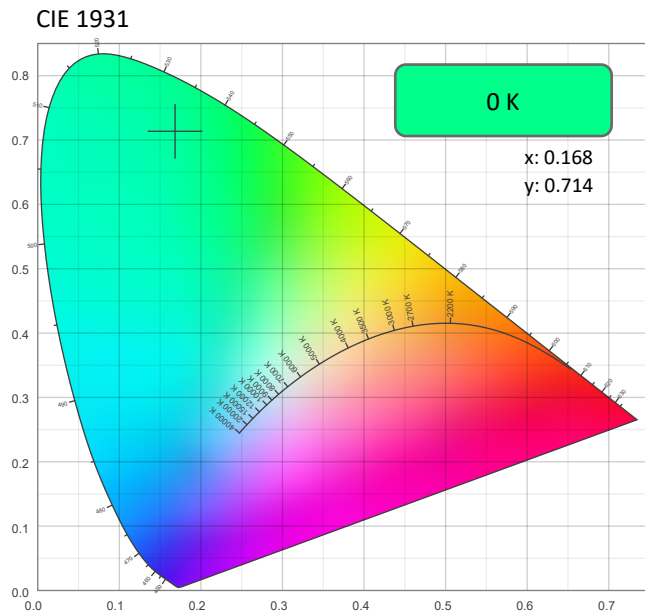
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Green Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.168	0.714

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.714	0.060

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

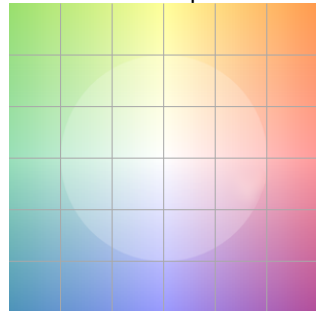
Logic AR111 Downlight M: Wide Filter Lens - Green Only

## TM-30 Details

**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

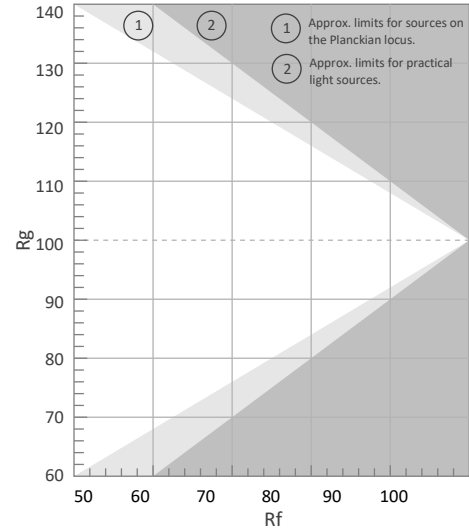
Color Vector Graphic



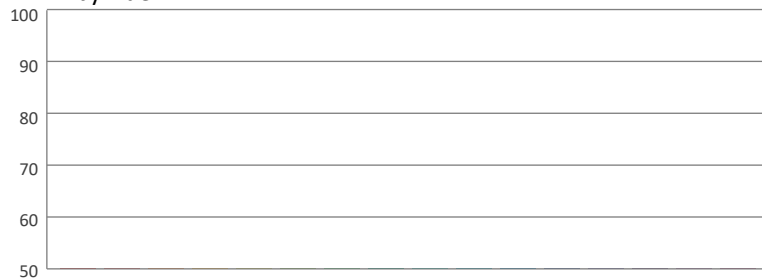
Color Distortion Graphic



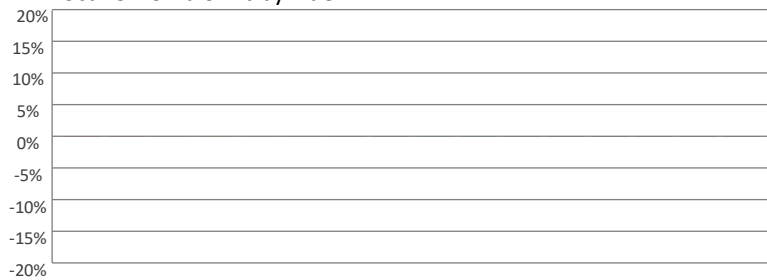
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



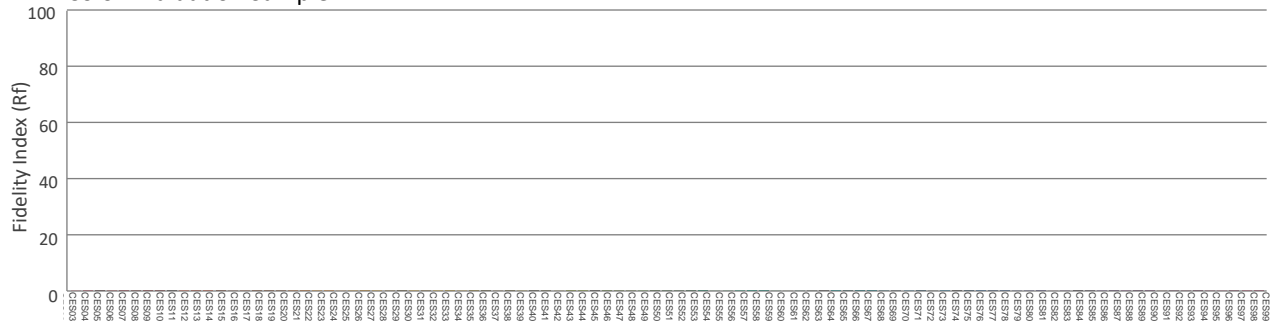
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Blue Only

## Report Summary

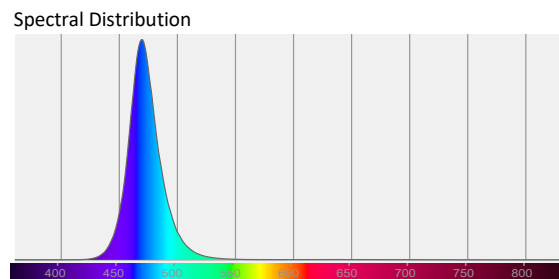
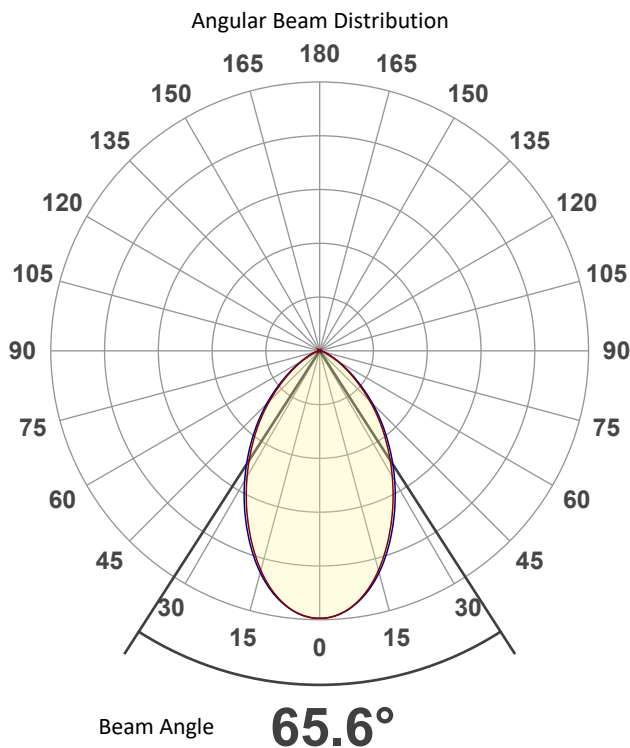
### Measurements

Fixture Output: 156 lm  
Fixture Peak: 119 cd  
Fixture Efficacy: 7 lm/W  
Intensity @ 5m: 5 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 65.6°  
Field Angle (10%): 115.5°  
Cutoff Angle (3%): 141.1°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.41 W  
Current: 0.196 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

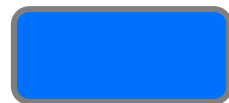
## Overall Measurement



Tested Color (CIE 1931):

X: 0.125

Y: 0.088



Light Quality

CRI: 0.0

Color Temperature

0 K

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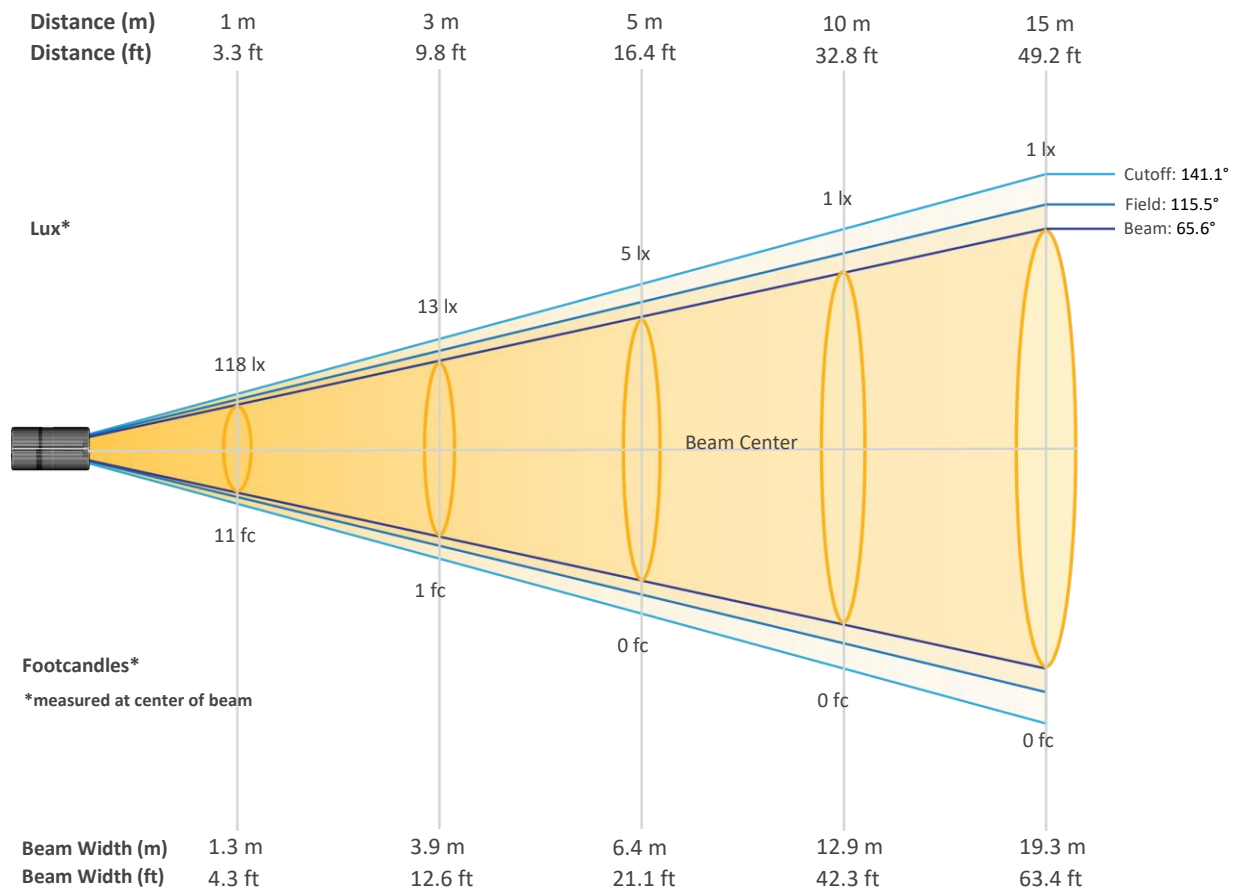
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Blue Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	118	30	13	7	5	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	11	3	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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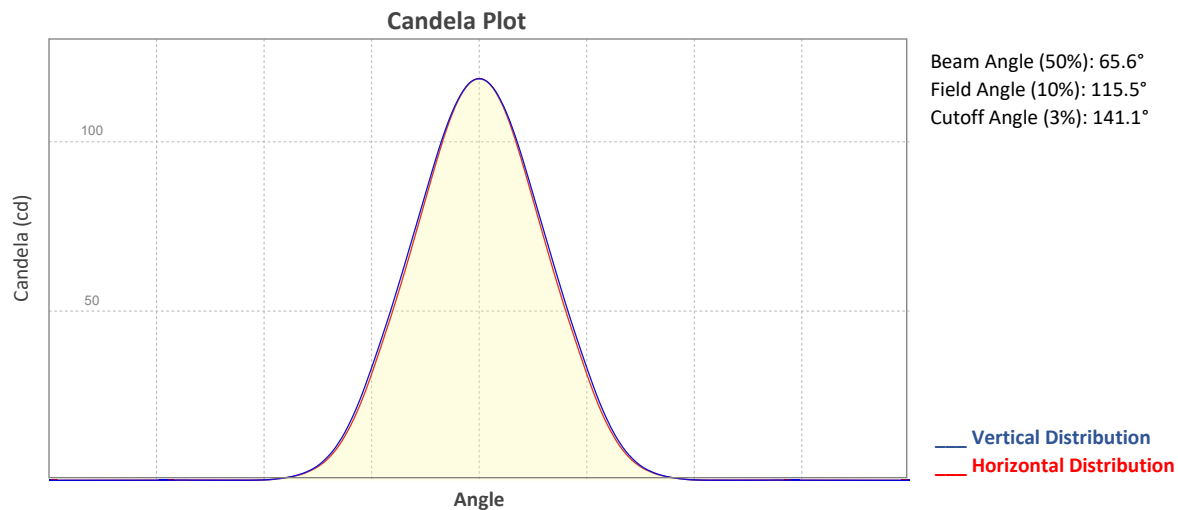
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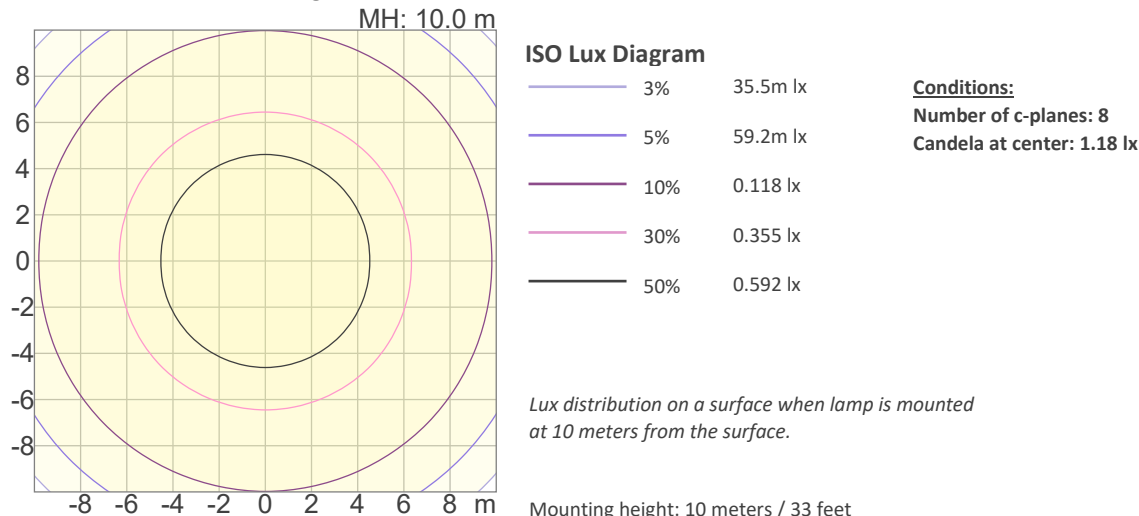
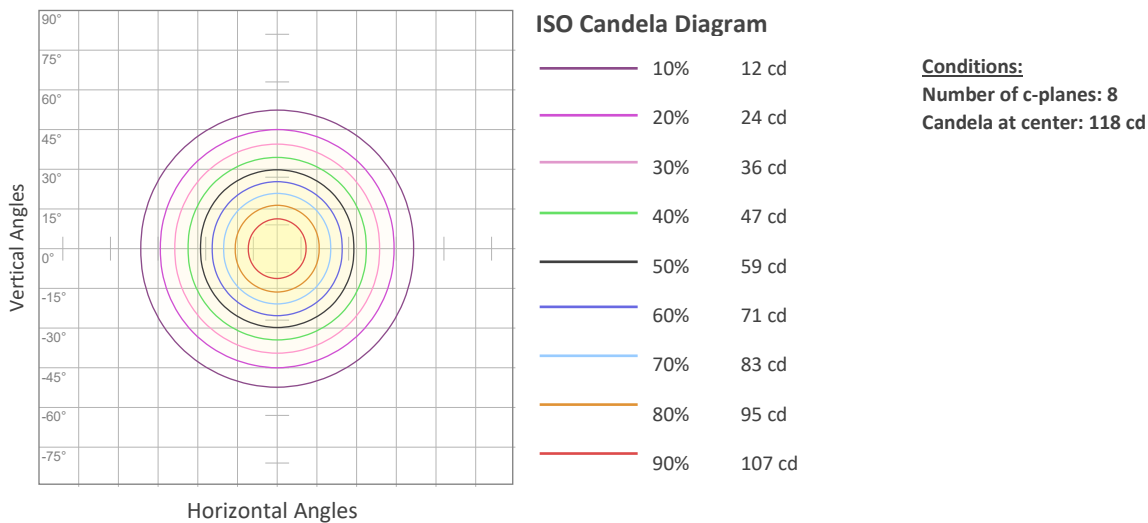


# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Blue Only



## ISO Diagrams



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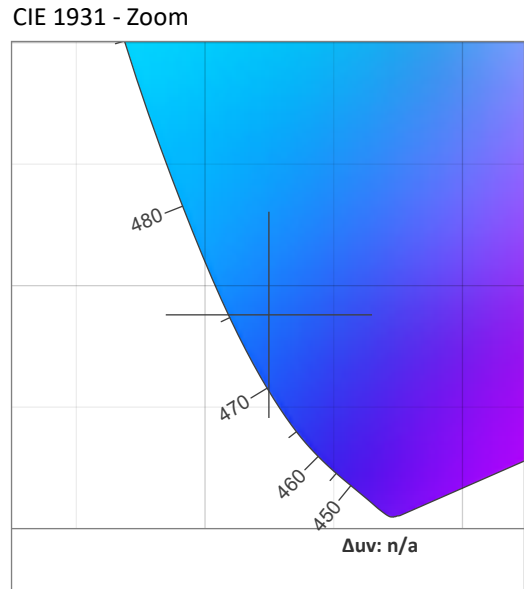
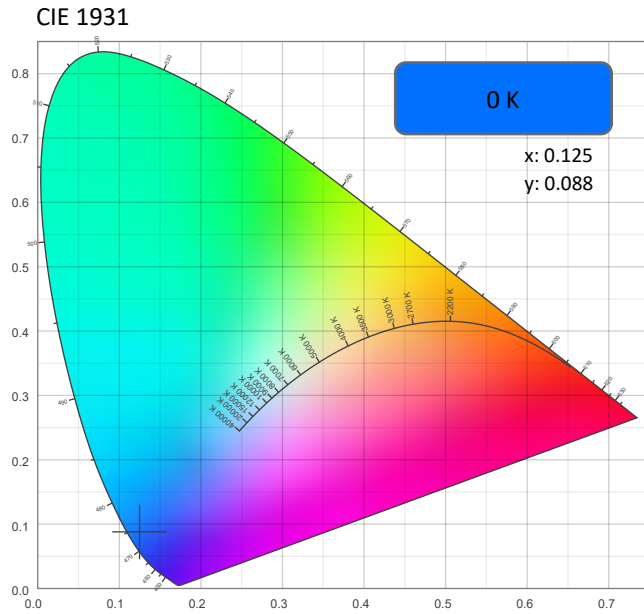
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.131

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

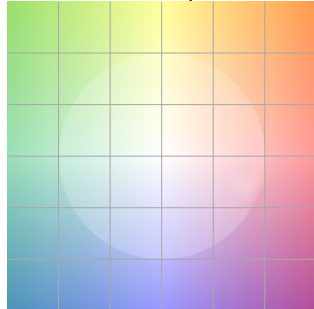
Logic AR111 Downlight M: Wide Filter Lens - Blue Only

## TM-30 Details

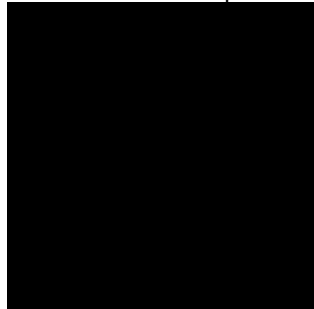
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

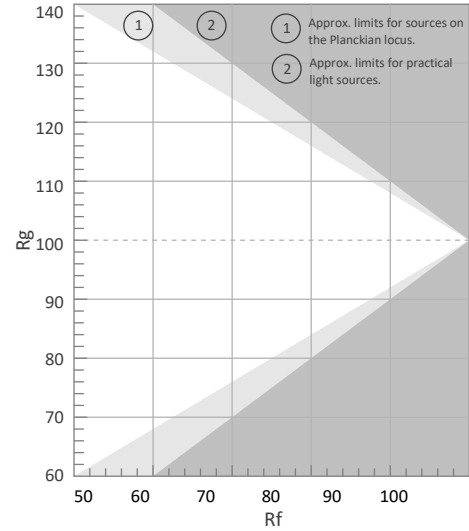
Color Vector Graphic



Color Distortion Graphic



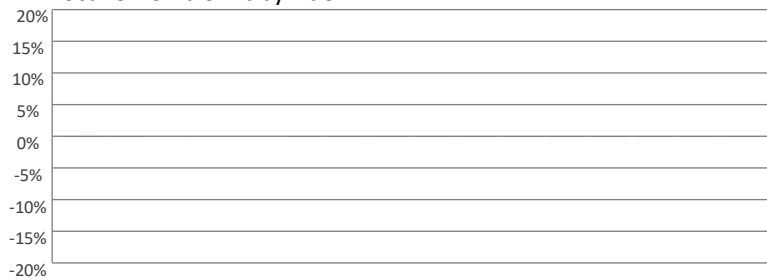
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



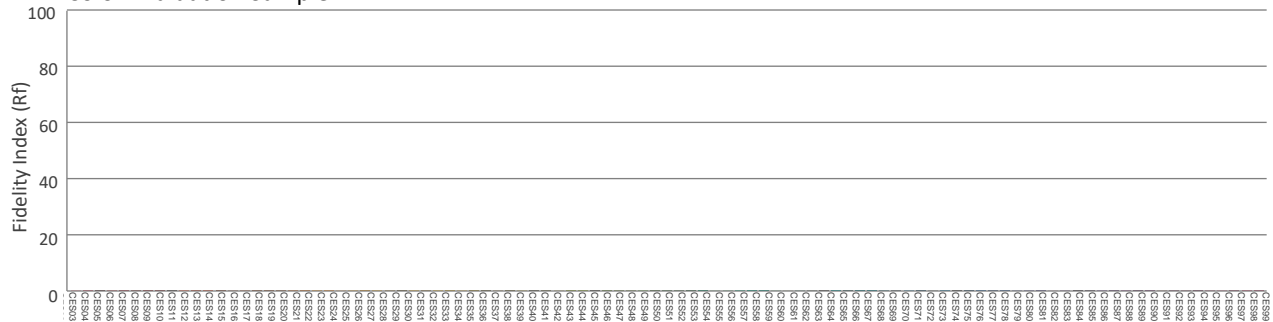
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

## Report Summary

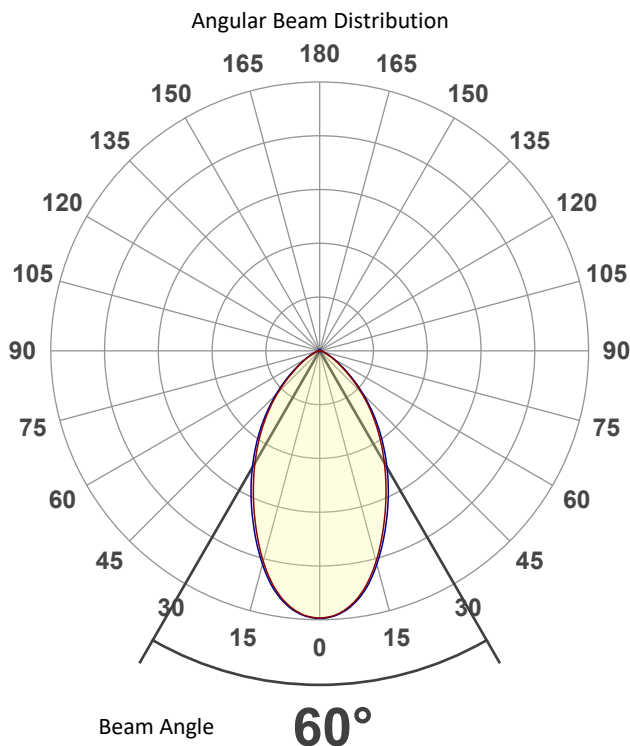
### Measurements

Fixture Output: 357 lm  
Fixture Peak: 306 cd  
Fixture Efficacy: 18 lm/W  
Intensity @ 5m: 12 lux  
Color Temperature: 3012 K  
CRI: 93.2      CRI R9 Value: 70.9  
CQS: 91.2  
TLCI: 92  
TM-30 Rf: 92.0  
TM-30 Rg: 101.8  
Beam Angle (50%): 60°  
Field Angle (10%): 109.6°  
Cutoff Angle (3%): 136.5°  
Conditions  
AC Supply: 119 V, 60 Hz  
Power: 22.47 W  
Current: 0.188 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.437

Y: 0.405



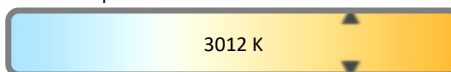
Light Quality

CRI: 93.2



Color Temperature

3012 K



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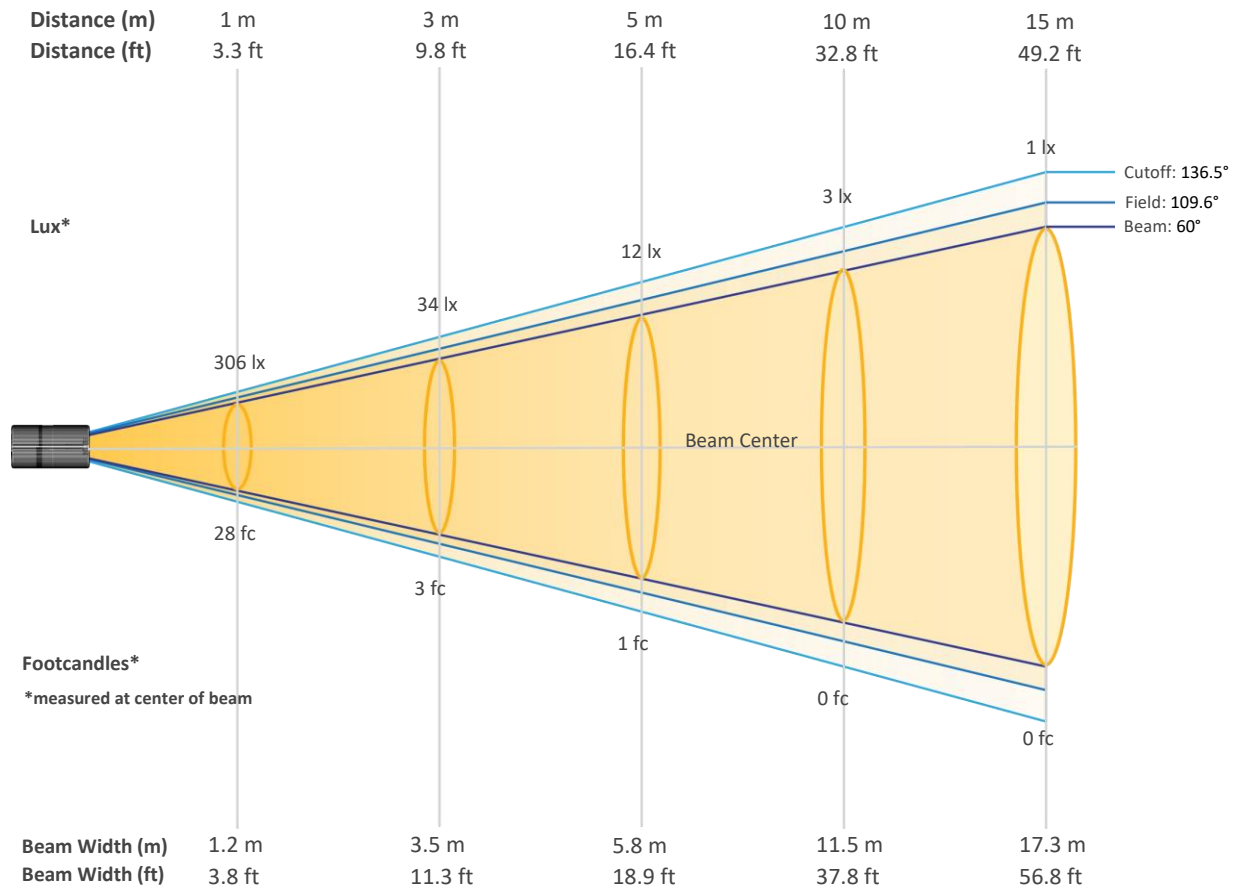
All product specifications, measurements and dimensions are subject to change without notice

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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	306	76	34	19	12	8	6	5	4	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	2	2	2	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	28	7	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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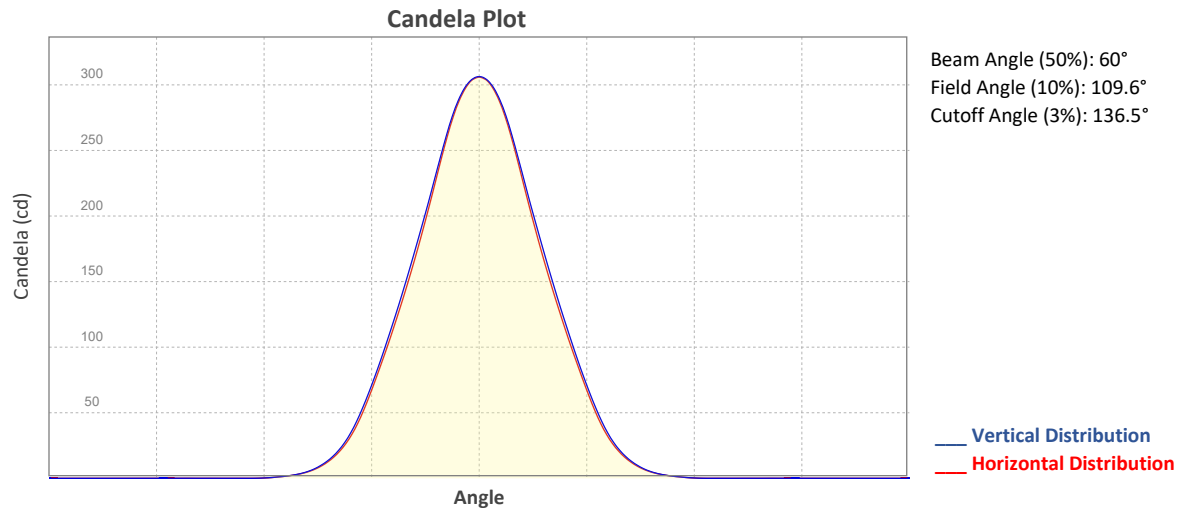
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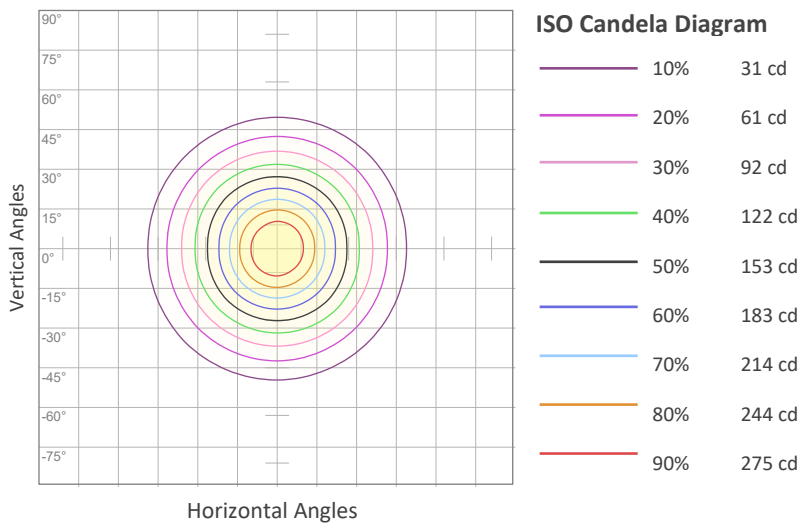
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# Photometric & Chromaticity Report

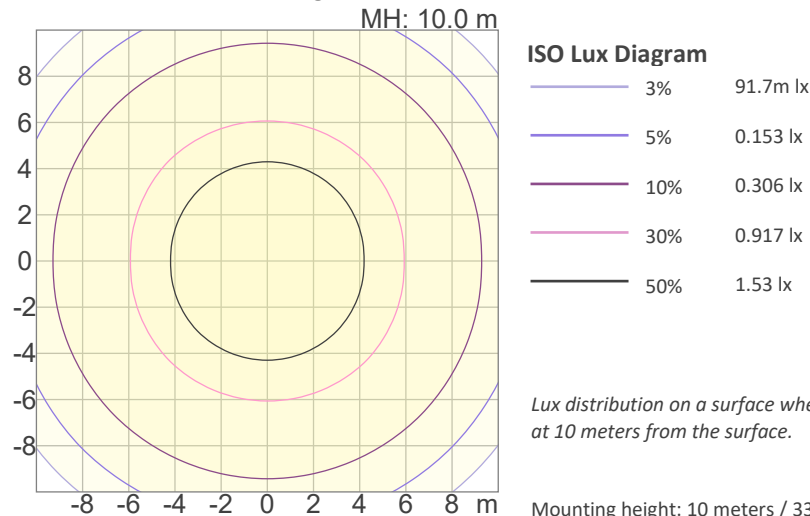
Logic AR111 Downlight M: Wide Filter Lens - Warm White Only



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 306 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 3.06 lx

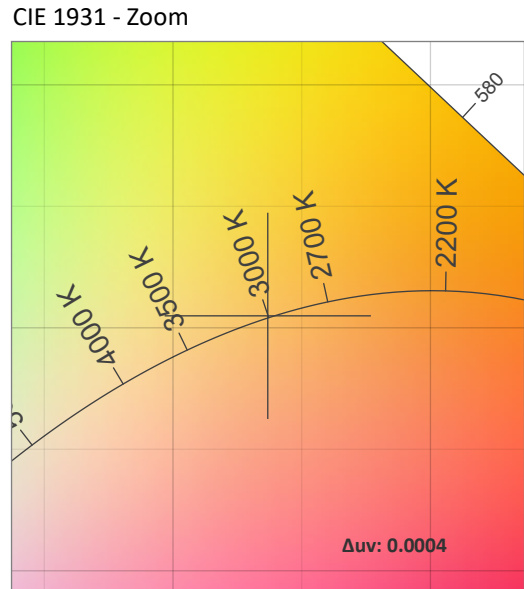
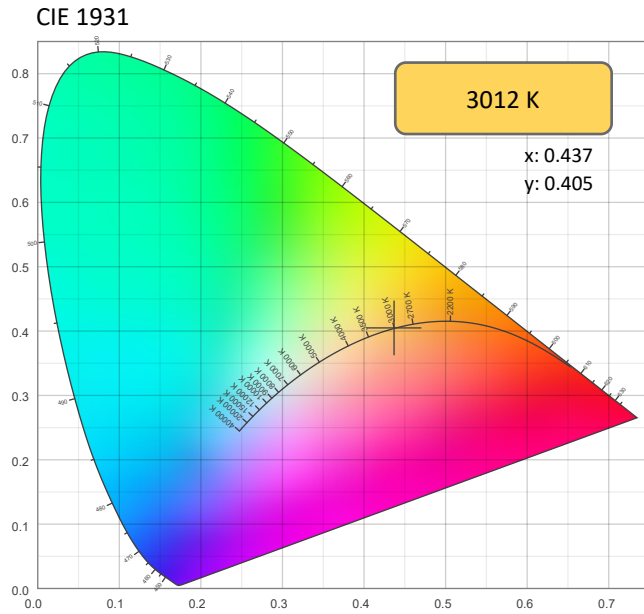
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

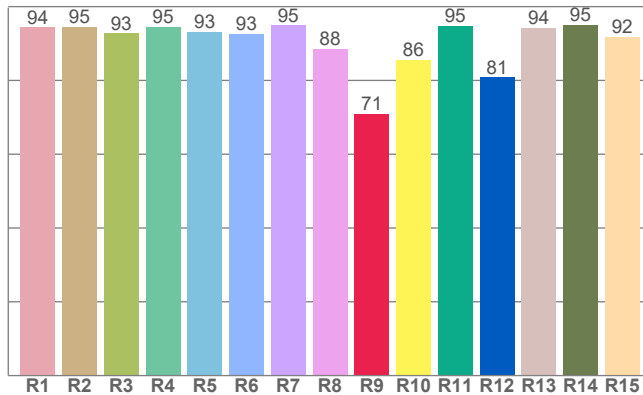
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

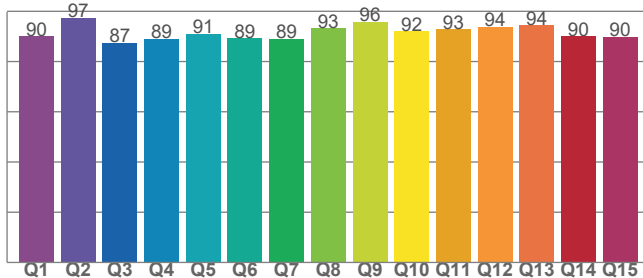
## Chromaticity



### CRI: 93.2 (R1-R8)



### CQS: 91.2



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3012 K	0.437	0.405

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0004	0.405	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.2	70.9	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	92.0	101.8

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# Photometric & Chromaticity Report

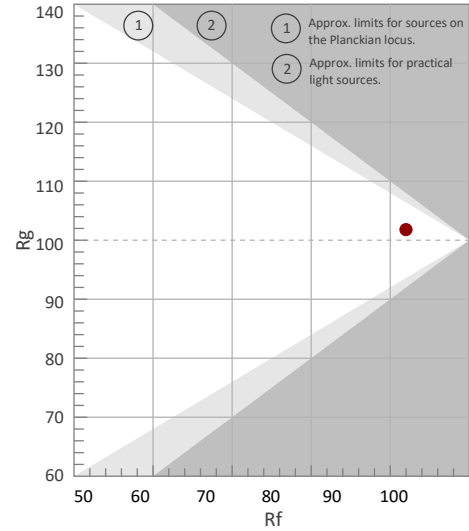
Logic AR111 Downlight M: Wide Filter Lens - Warm White Only

## TM-30 Details

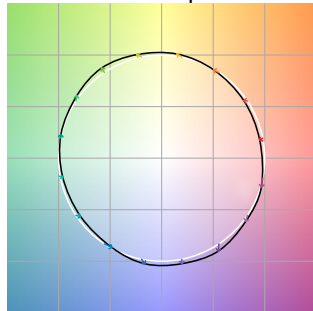
**Rf 92.0**  
Fidelity Index (Rg)

**Rg 101.8**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	6%
4	91	2%	5%
5	93	3%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-3%
9	95	-2%	-1%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	91	2%	-6%
16	89	0%	-9%



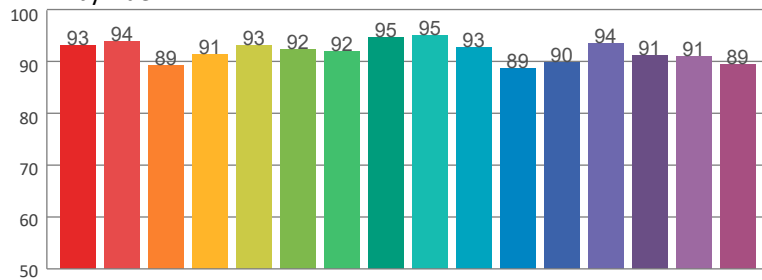
Color Vector Graphic



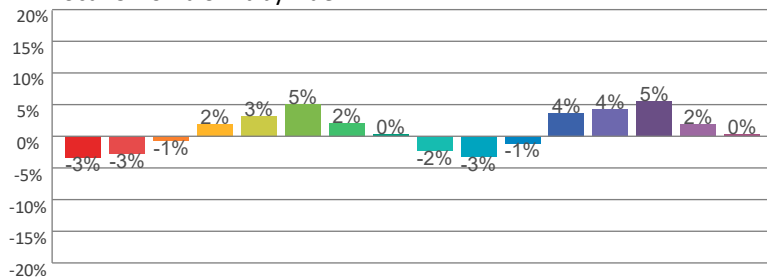
Color Distortion Graphic



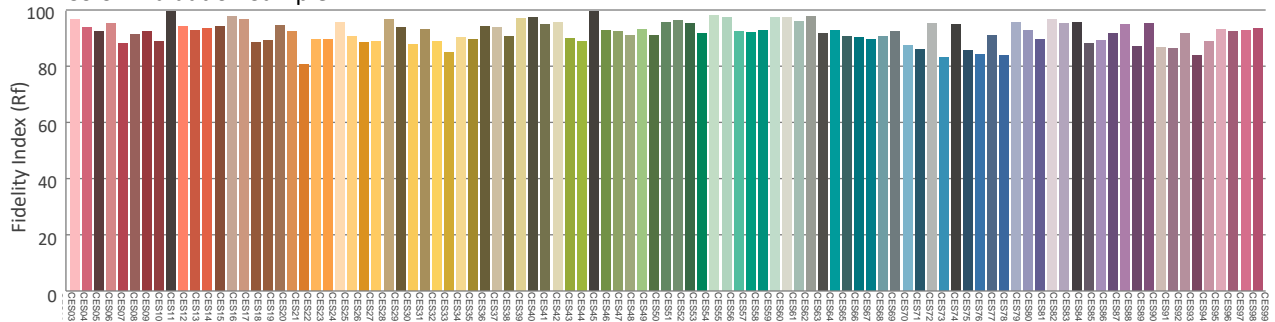
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

## Report Summary

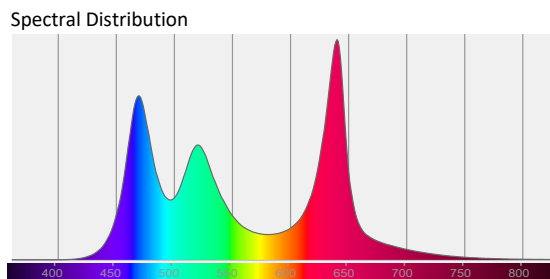
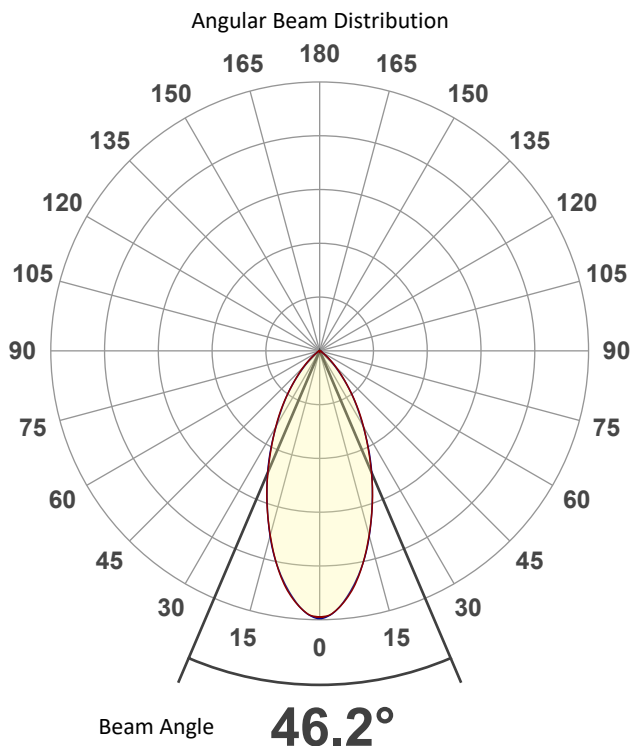
### Measurements

Fixture Output: 572 lm  
 Fixture Peak: 782 cd  
 Fixture Efficacy: 15 lm/W  
 Intensity @ 5m: 31 lux  
 Color Temperature: 6288 K  
 CRI: 48.7      CRI R9 Value: -159.0  
 CQS: 61.7  
 TLCI: 26  
 TM-30 Rf: 60.6  
 TM-30 Rg: 102.7  
 Beam Angle (50%): 46.2°  
 Field Angle (10%): 87.3°  
 Cutoff Angle (3%): 106.2°  
**Conditions**  
 AC Supply: 120 V, 60 Hz  
 Power: 40.91 W  
 Current: 0.341 A  
 Power Factor: 0.95



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
 X: 0.317  
 Y: 0.332

Light Quality  
 CRI: 48.7

Color Temperature  
 6288 K

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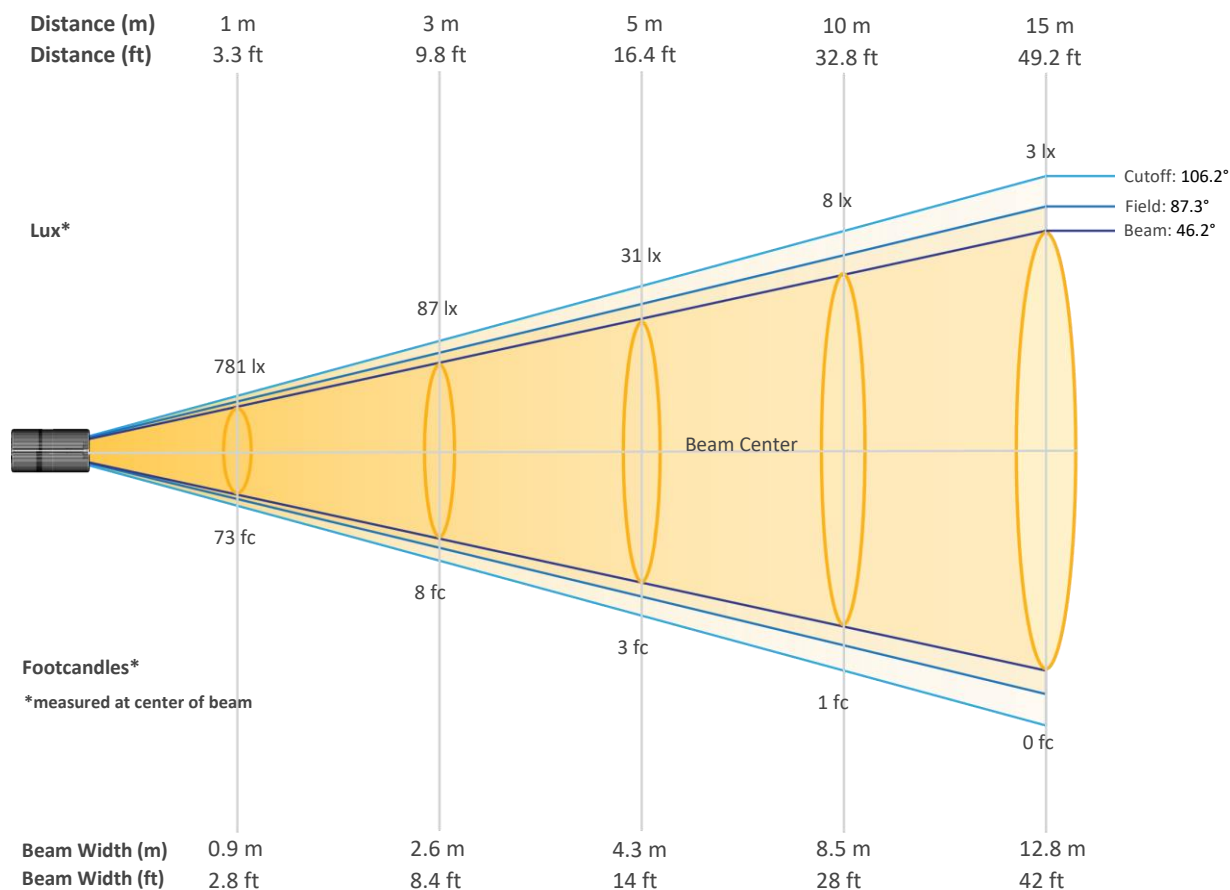
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	781	195	87	49	31	22	16	12	10	8
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	6	5	5	4	3	3	3	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	73	18	8	5	3	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	0	0	0	0	0	0	0	0

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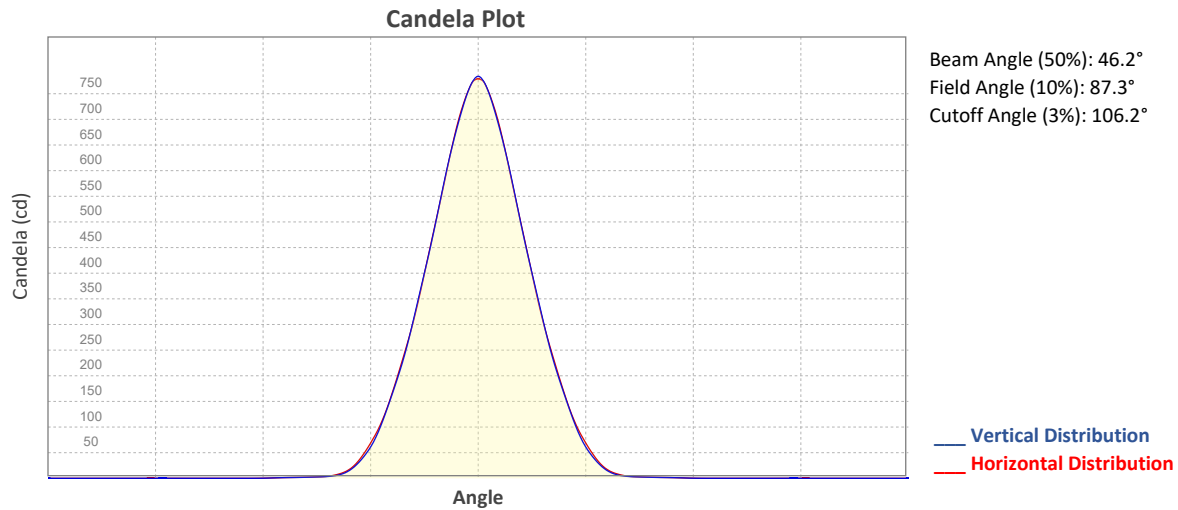
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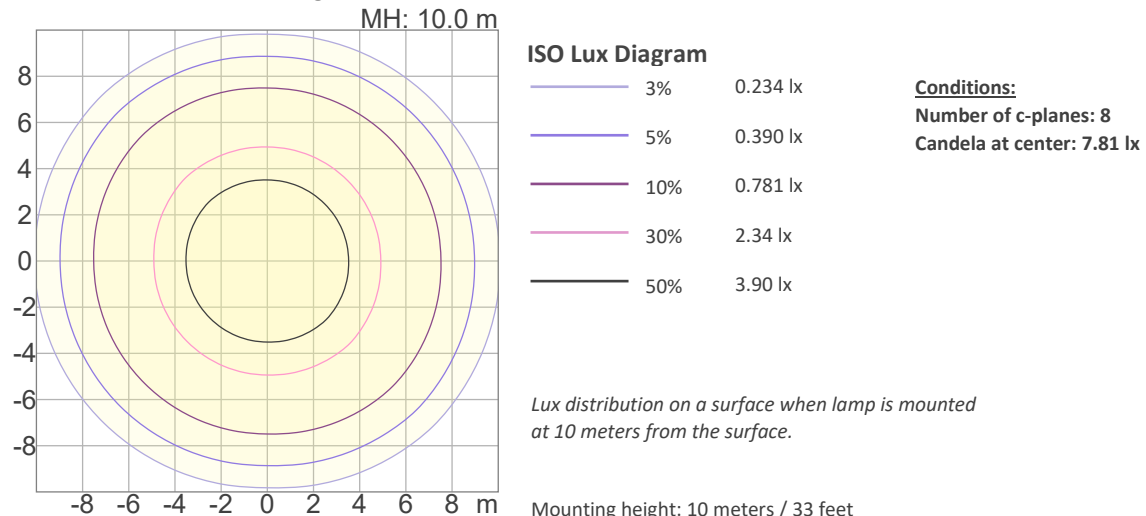
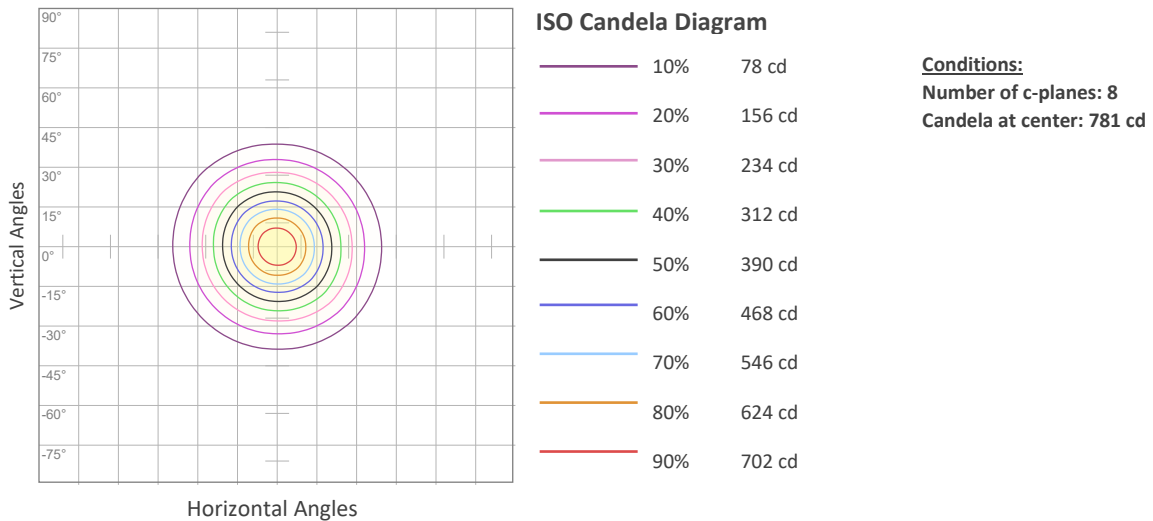
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power



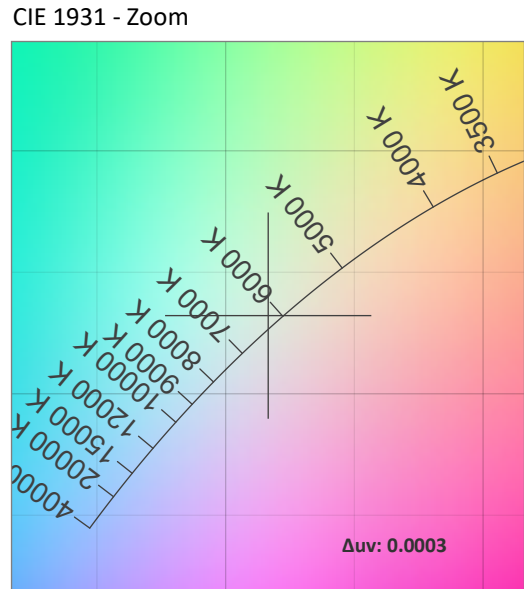
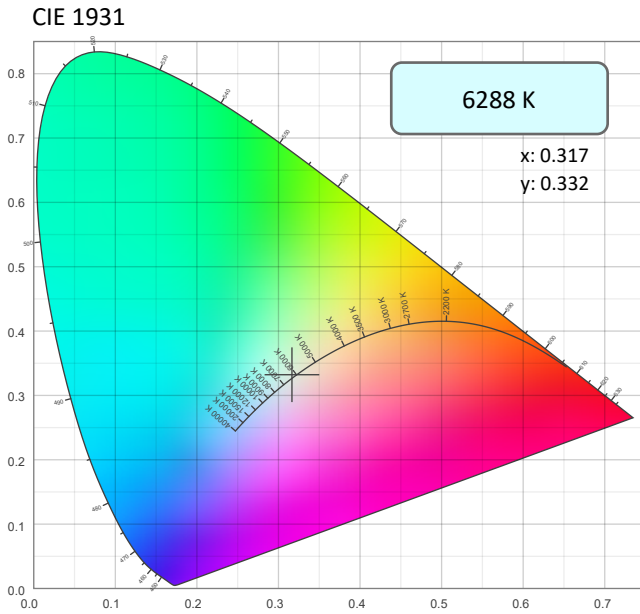
## ISO Diagrams



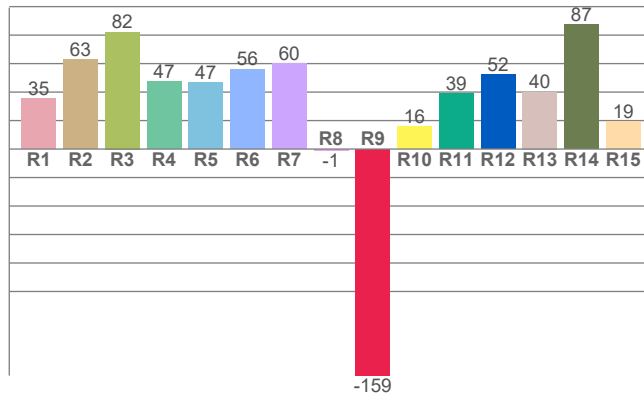
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

## Chromaticity



CRI: 48.7 (R1-R8)

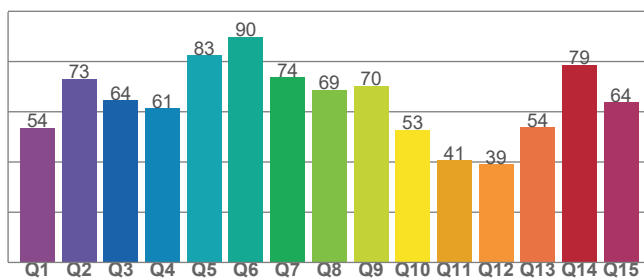


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6288 K	0.317	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0003	0.332	0.199

CQS: 61.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
48.7	-159.0	61.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
26	60.6	102.7

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# Photometric & Chromaticity Report

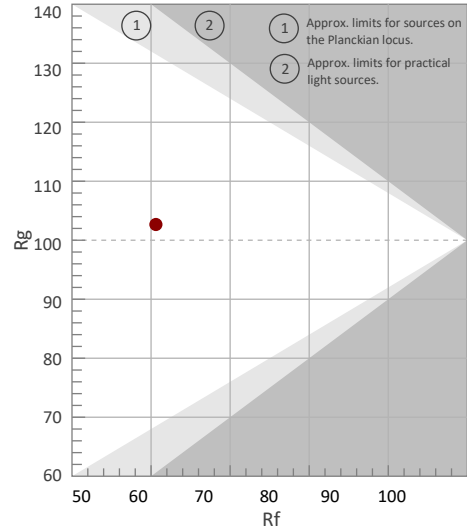
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - RGBW - Full Power

## TM-30 Details

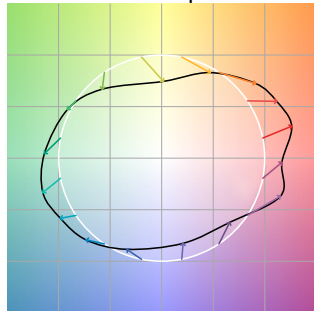
**Rf 60.6**  
Fidelity Index (Rg)

**Rg 102.7**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	44	30%	6%
2	57	23%	-16%
3	37	11%	-35%
4	50	-9%	-30%
5	52	-27%	-16%
6	74	-12%	11%
7	80	2%	12%
8	64	12%	18%
9	73	20%	10%
10	70	14%	-6%
11	67	7%	-17%
12	73	-7%	-16%
13	73	-15%	4%
14	61	-12%	20%
15	53	16%	33%
16	60	15%	19%



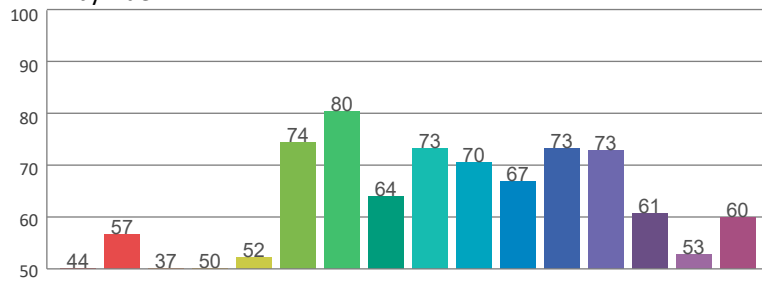
Color Vector Graphic



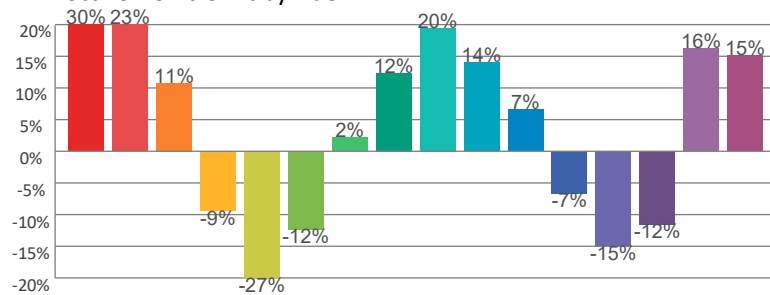
Color Distortion Graphic



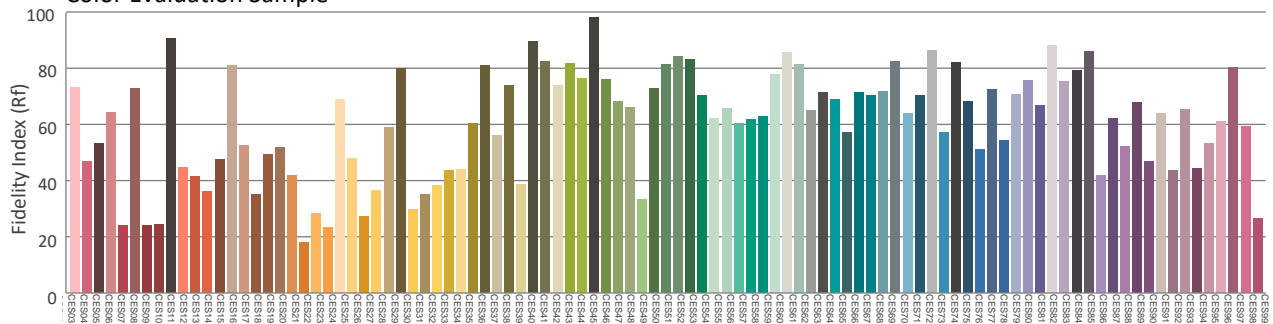
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only

## Report Summary

### Measurements

Fixture Output: 126 lm

Fixture Peak: 172 cd

Fixture Efficacy: 7 lm/W

Intensity @ 5m: 7 lux

Color Temperature: 0 K

CRI: 0.0 CRI R9 Value: 0.0

CQS: 0.0

TLCl: n/a

TM-30 Rf: 0.0

TM-30 Rg: 0.0

Beam Angle (50%): 46.4°

Field Angle (10%): 87.3°

Cutoff Angle (3%): 106.1°

### Conditions

AC Supply: 120 V, 60 Hz

Power: 21.69 W

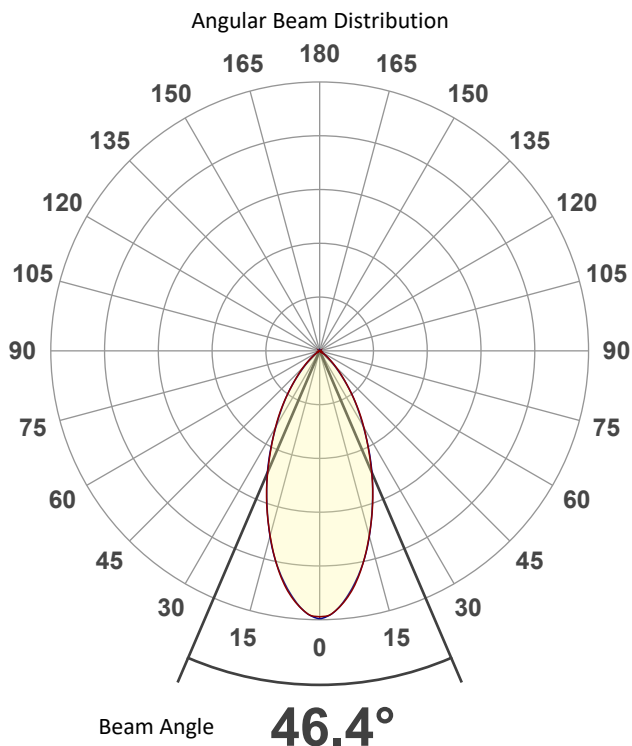
Current: 0.181 A

Power Factor: 0.88

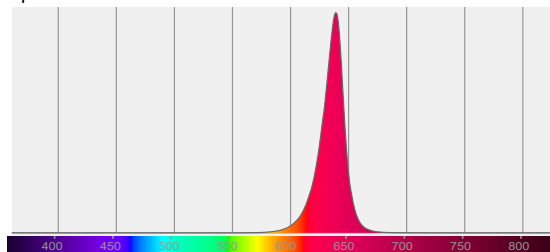


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



### Spectral Distribution



Tested Color (CIE 1931):

X: 0.702

Y: 0.298



Light Quality

CRI: 0.0

Color Temperature

0 K

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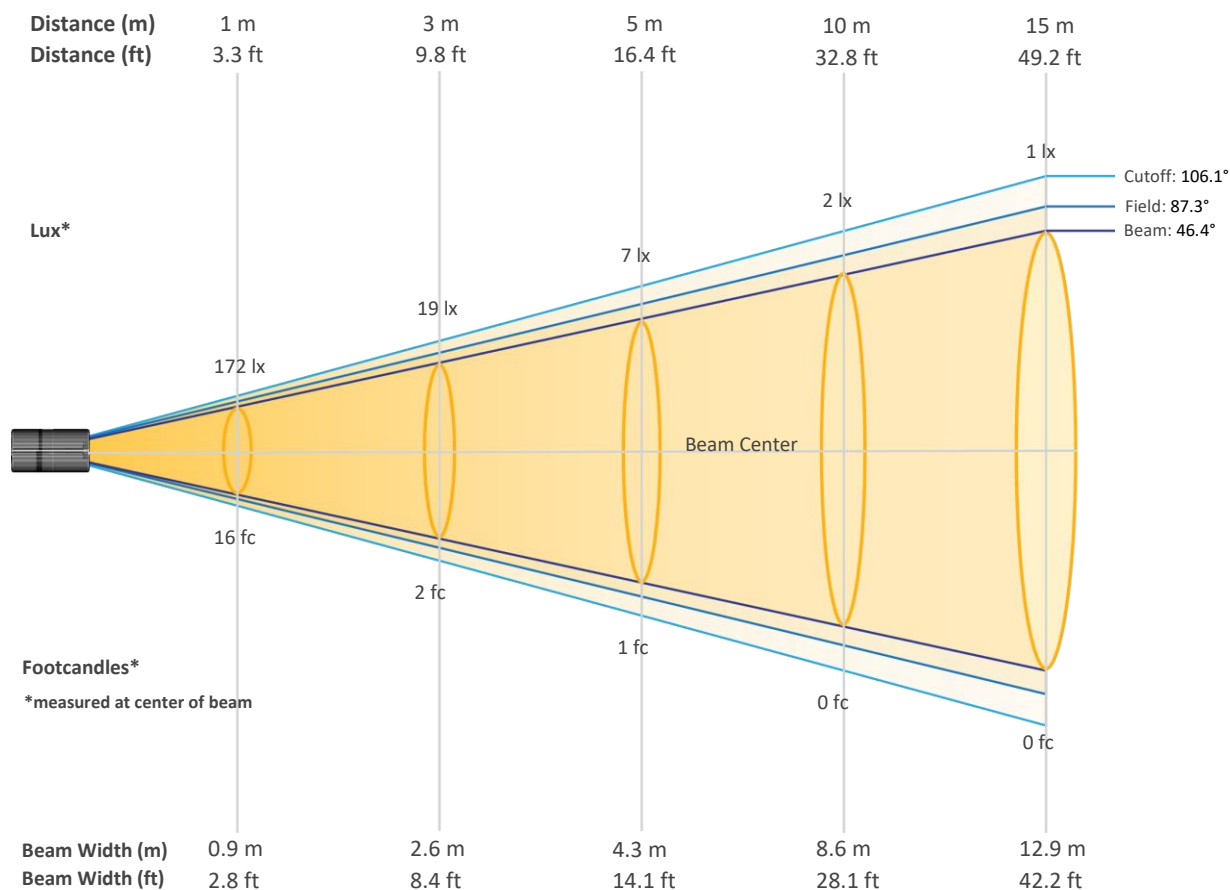
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	172	43	19	11	7	5	4	3	2	2
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	1	1	1	1	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	16	4	2	1	1	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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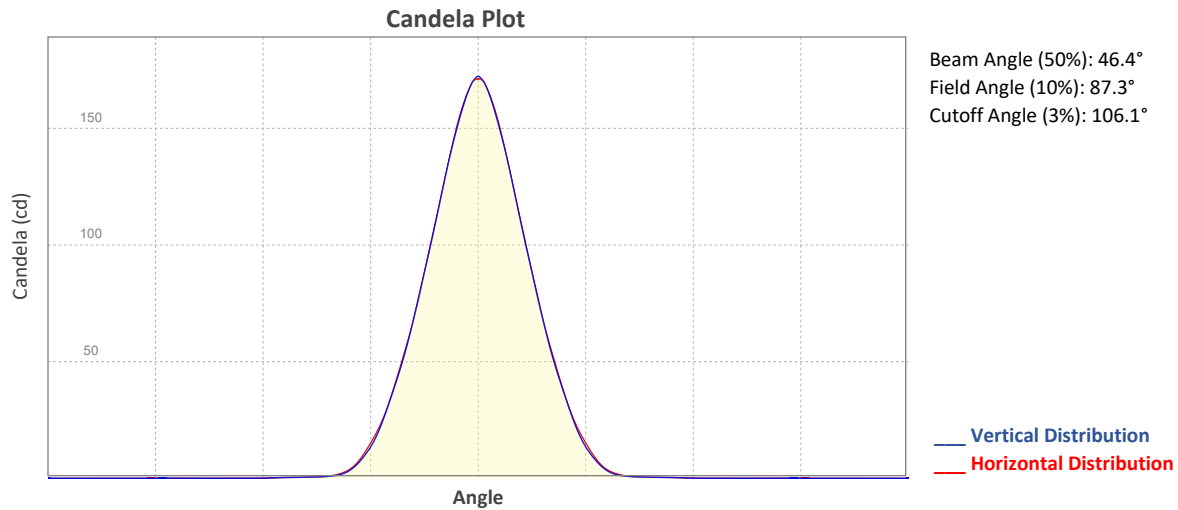
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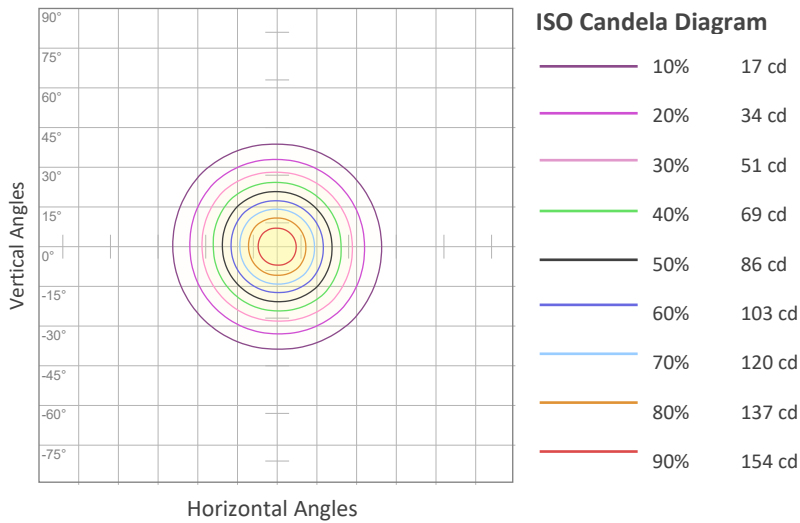
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# Photometric & Chromaticity Report

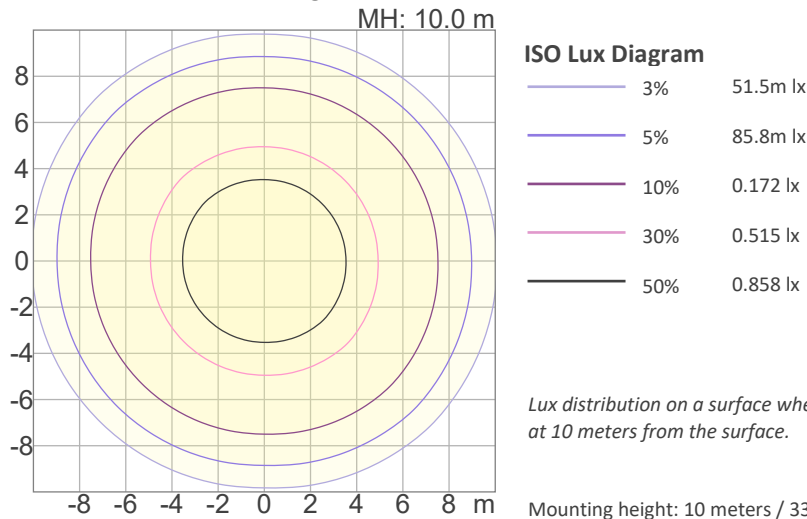
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only



## ISO Diagrams



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 172 cd



**Conditions:**  
 Number of c-planes: 8  
 Candela at center: 1.72 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

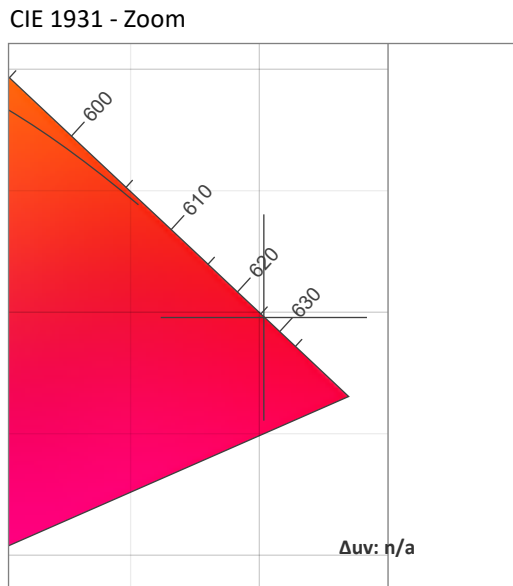
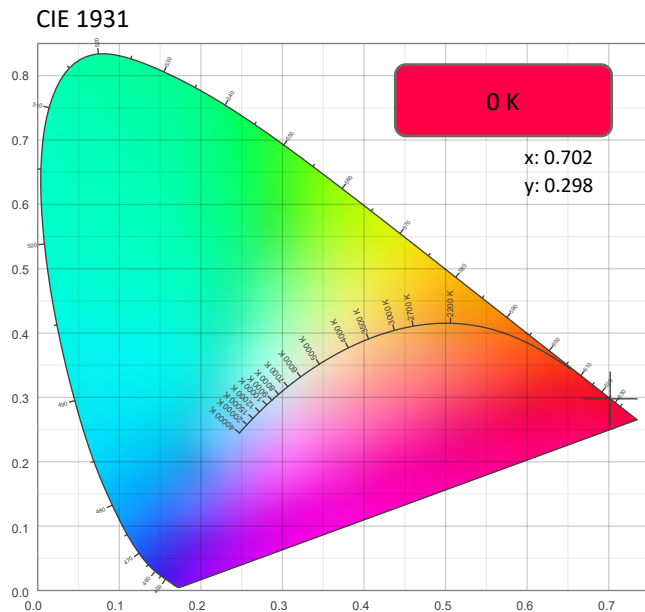
Mounting height: 10 meters / 33 feet



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.702	0.298

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.298	0.543

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

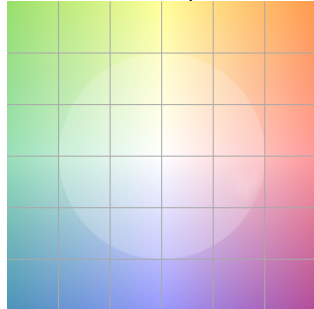
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Red Only

## TM-30 Details

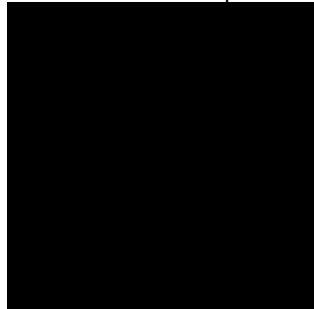
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

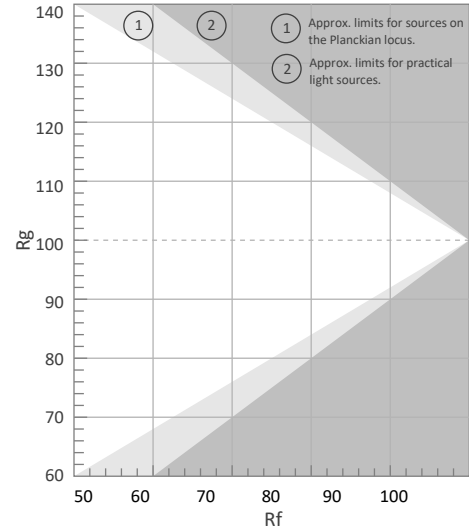
Color Vector Graphic



Color Distortion Graphic



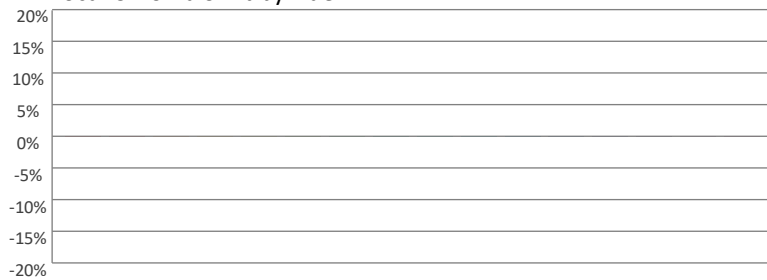
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



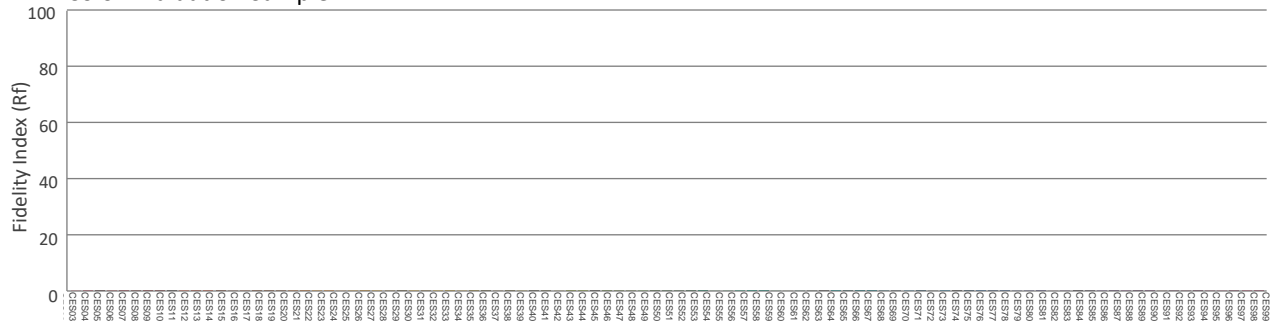
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only

## Report Summary

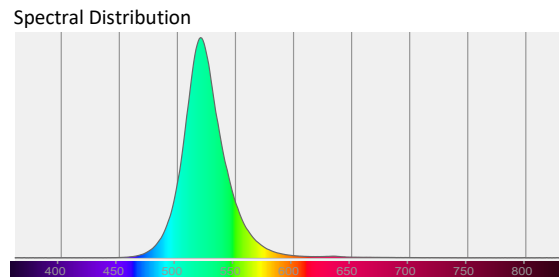
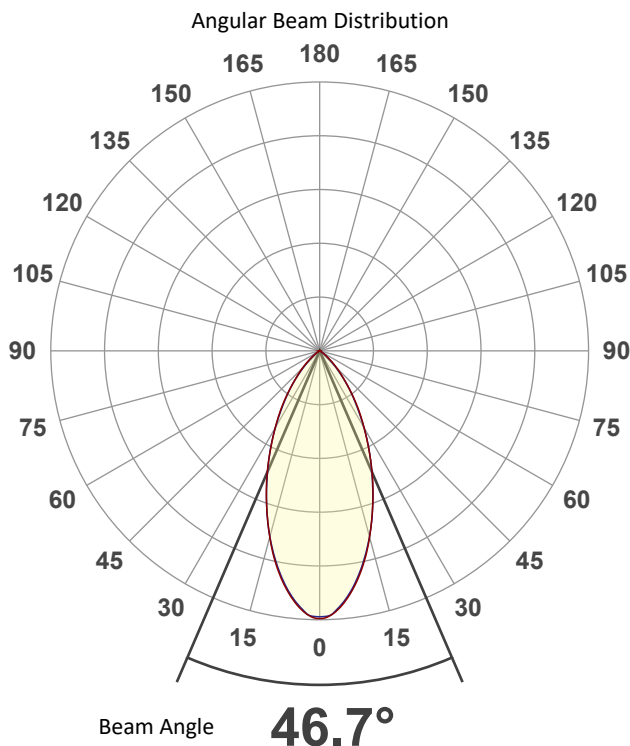
### Measurements

Fixture Output: 270 lm  
Fixture Peak: 365 cd  
Fixture Efficacy: 13 lm/W  
Intensity @ 5m: 15 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 46.7°  
Field Angle (10%): 87.8°  
Cutoff Angle (3%): 106.6°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.51 W  
Current: 0.197 A  
Power Factor: 0.89



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.168

Y: 0.714



Light Quality

CRI: 0.0

Color Temperature

0 K

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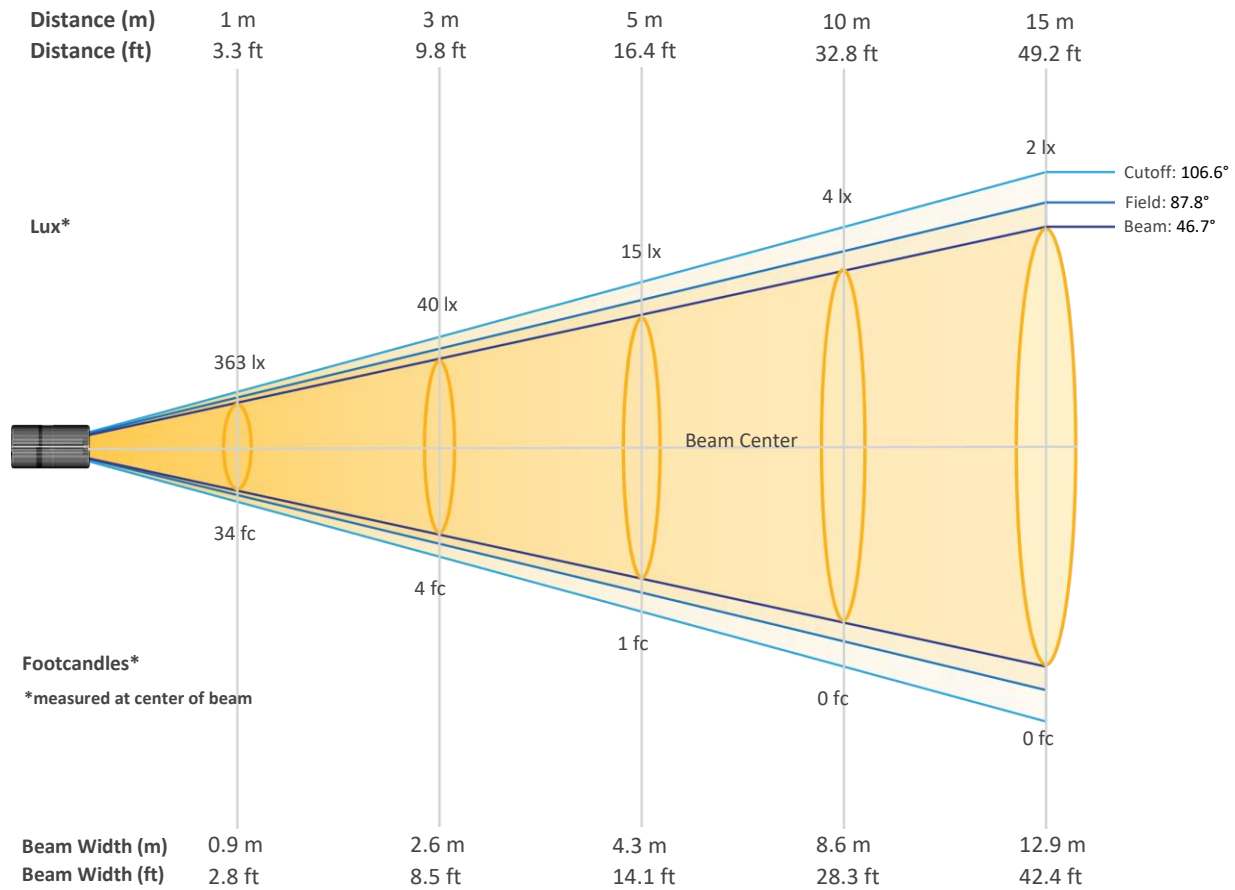
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	363	91	40	23	15	10	7	6	4	4
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3	3	2	2	2	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	34	8	4	2	1	1	1	1	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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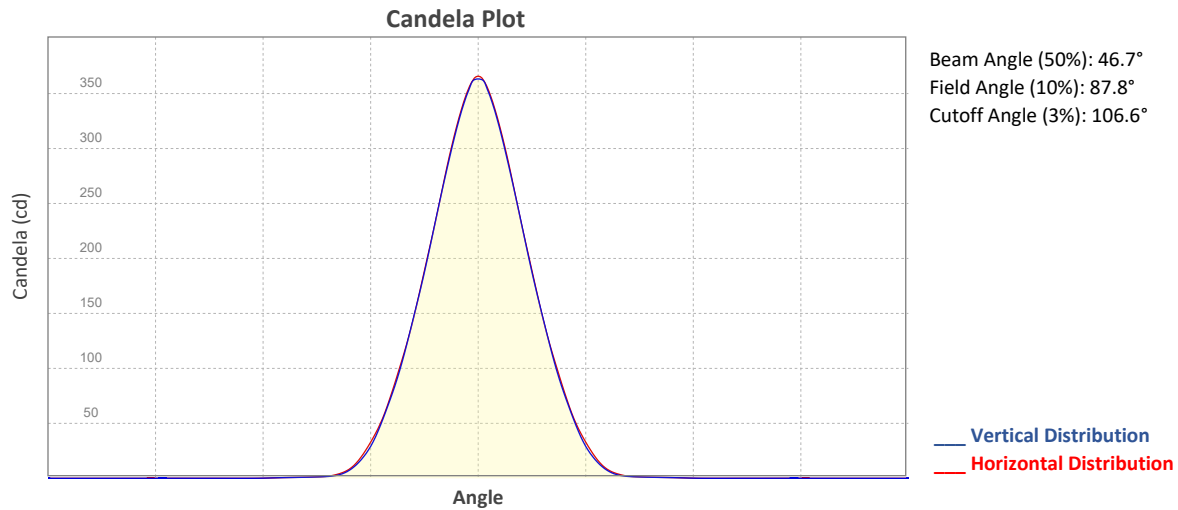
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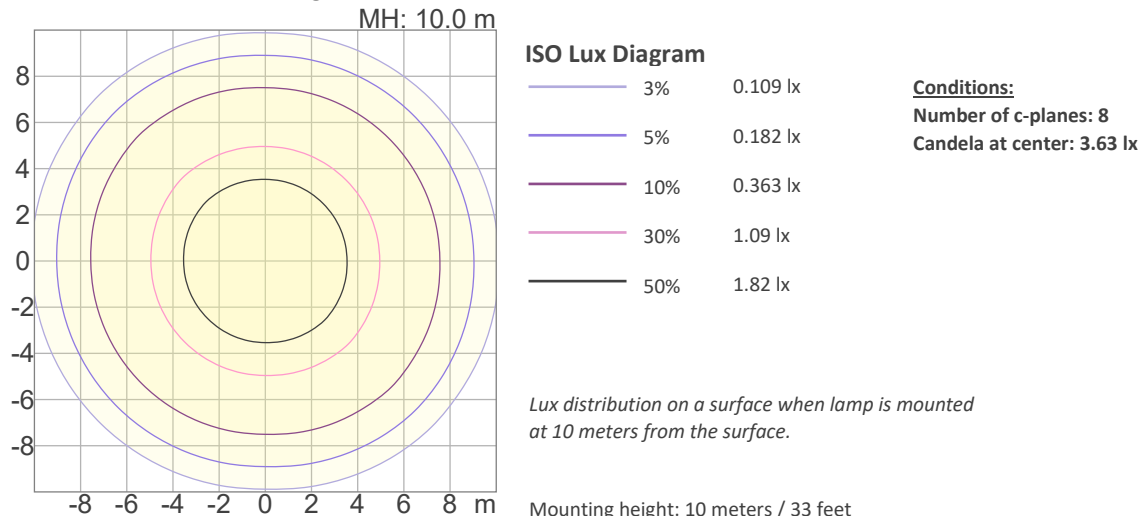
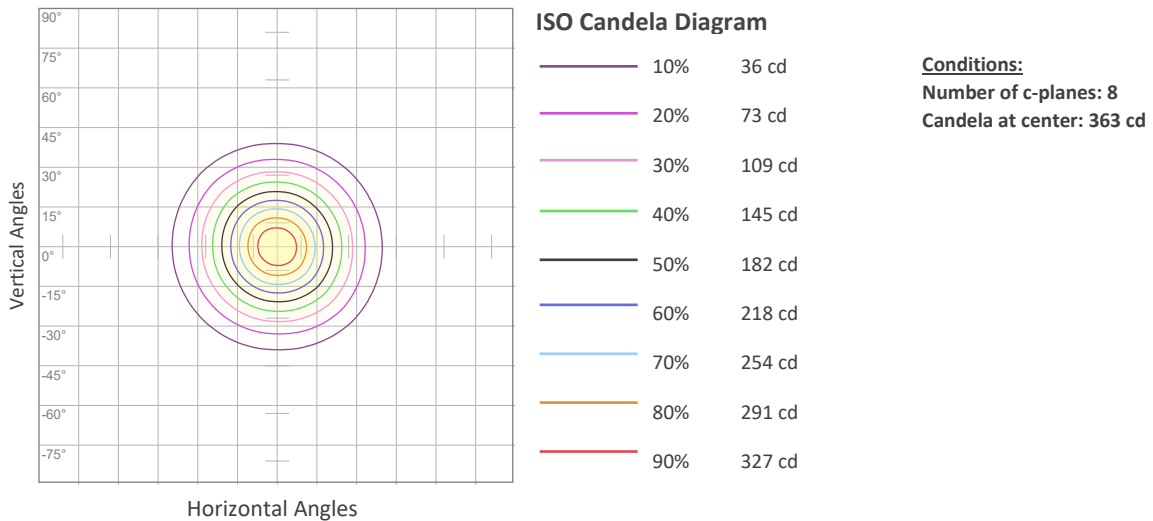
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only



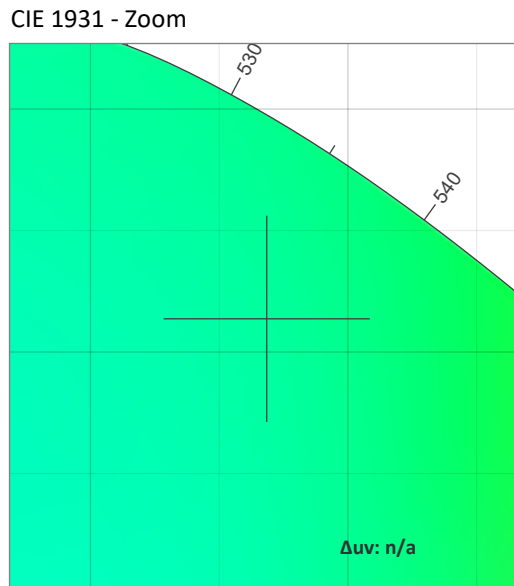
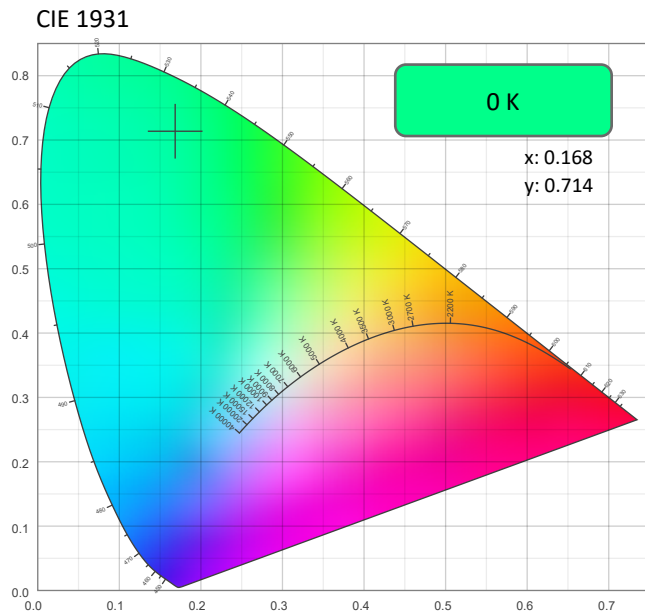
## ISO Diagrams



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

### CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.168	0.714

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.714	0.060

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

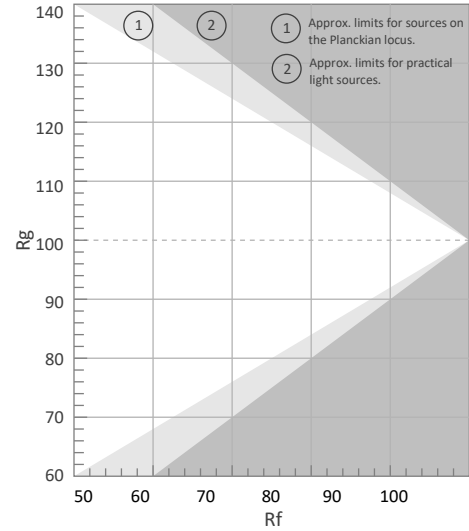
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Green Only

## TM-30 Details

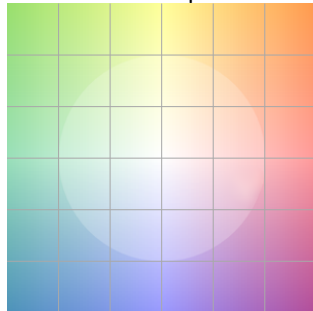
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index (Rg)

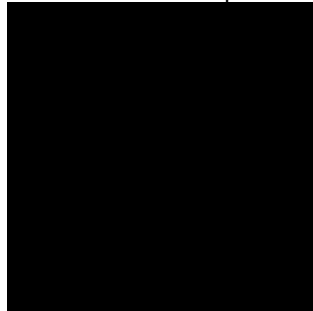
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



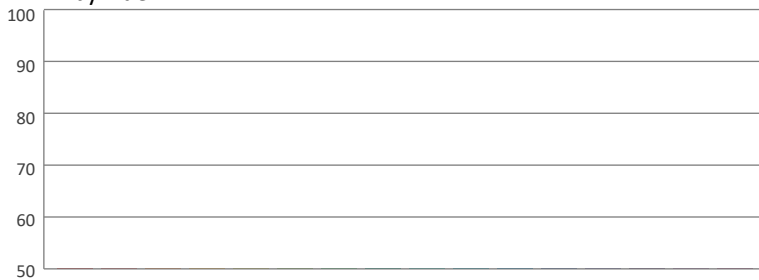
Color Vector Graphic



Color Distortion Graphic



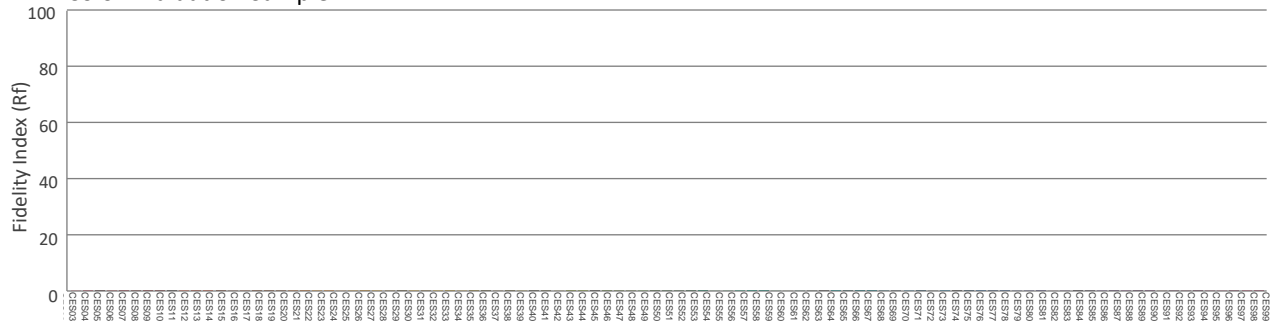
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

## Report Summary

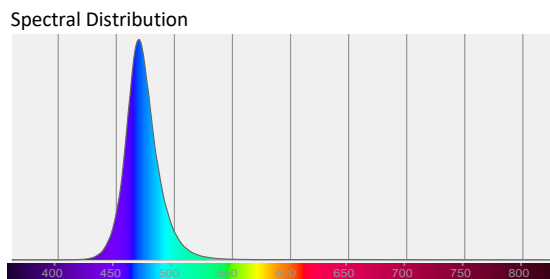
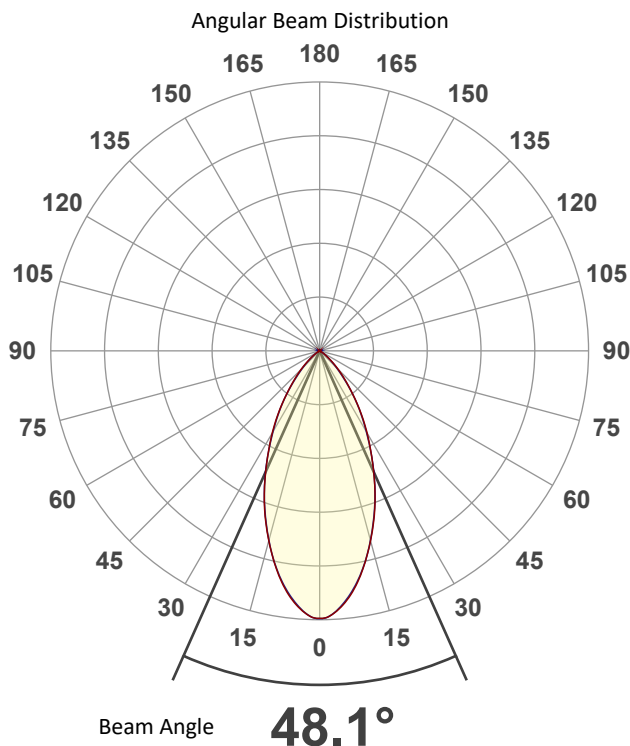
### Measurements

Fixture Output: 81.3 lm  
Fixture Peak: 105 cd  
Fixture Efficacy: 4 lm/W  
Intensity @ 5m: 4 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCl: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 48.1°  
Field Angle (10%): 89.2°  
Cutoff Angle (3%): 107.8°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 23.42 W  
Current: 0.196 A  
Power Factor: 0.89

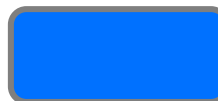


This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.125  
Y: 0.088



Light Quality  
CRI: 0.0

Color Temperature  
0 K

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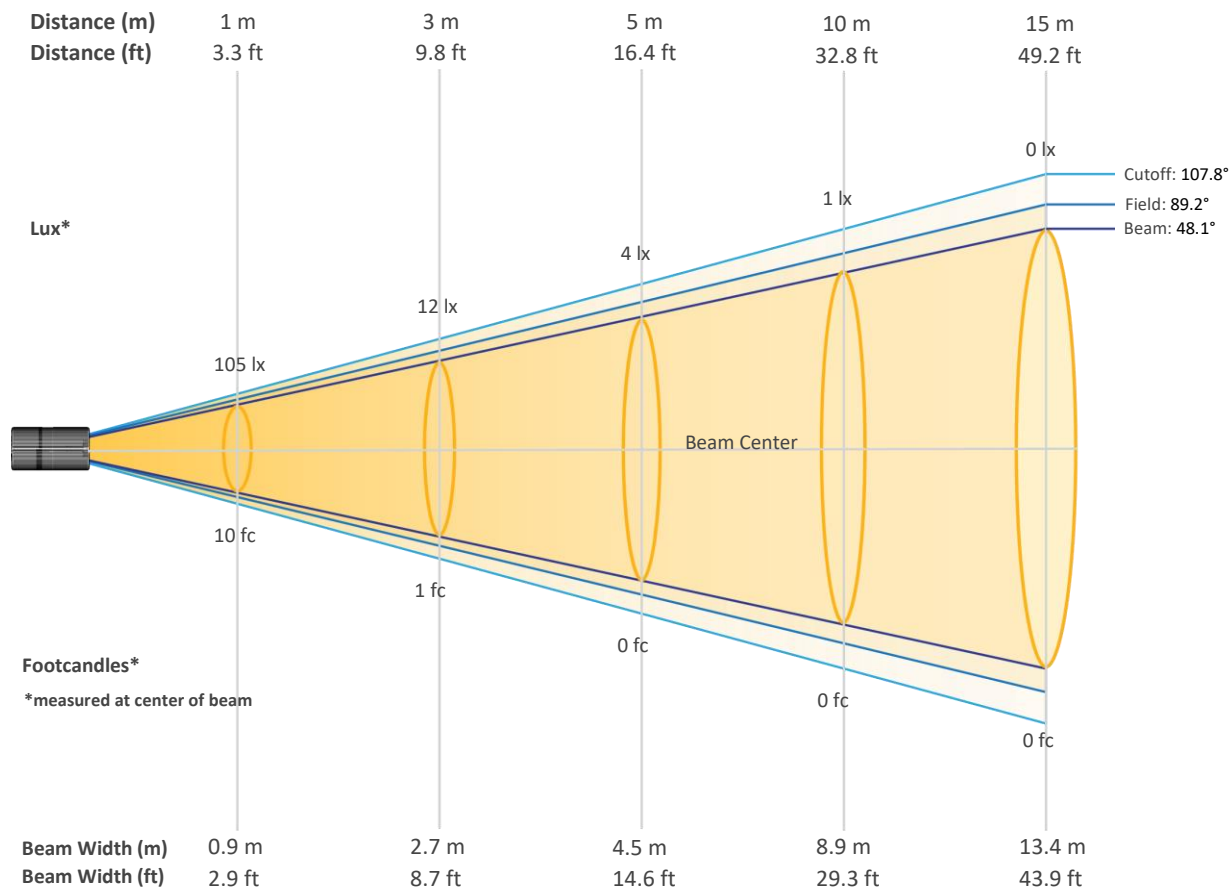
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	105	26	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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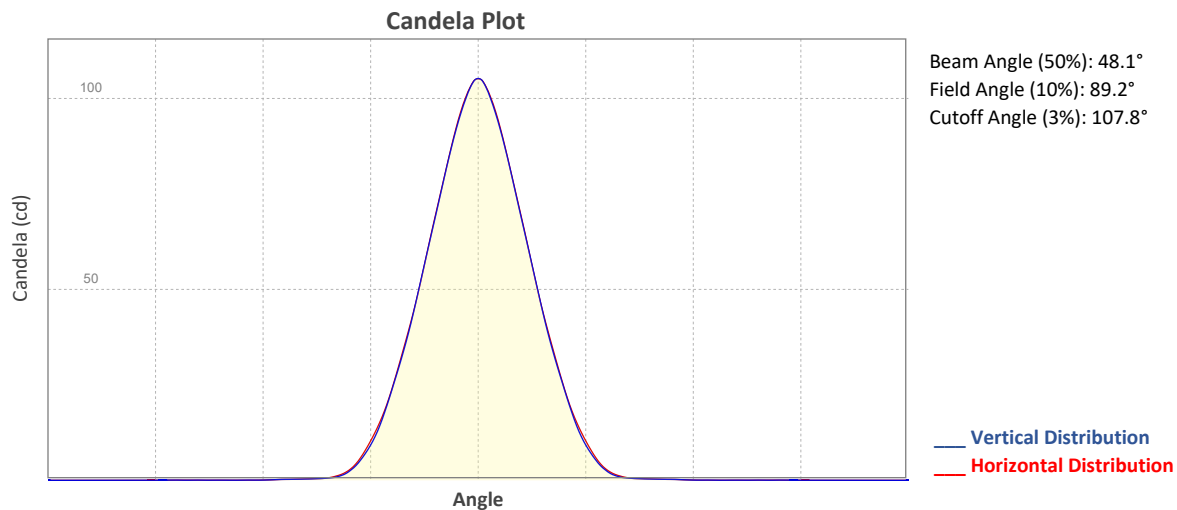
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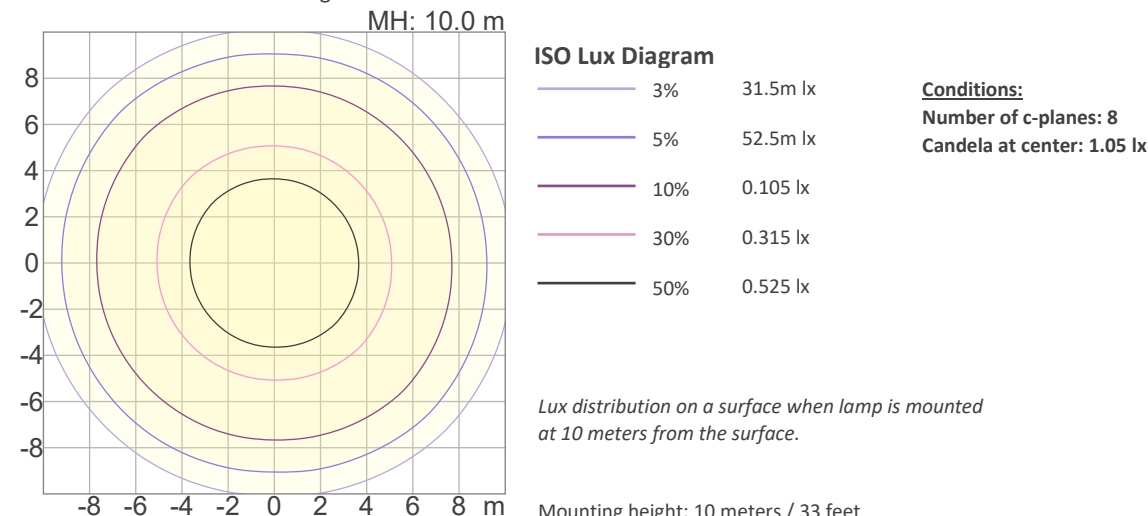
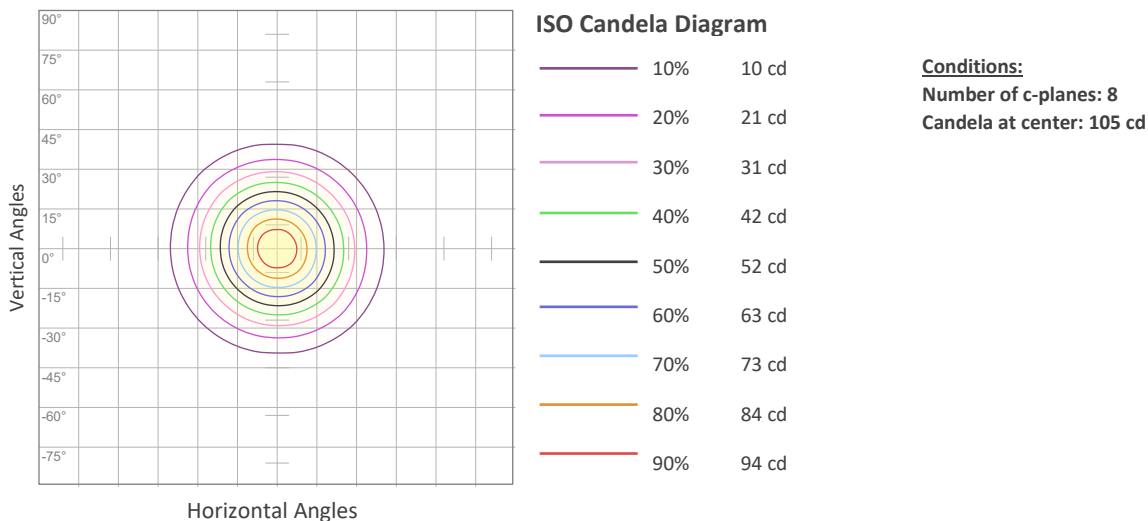
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only



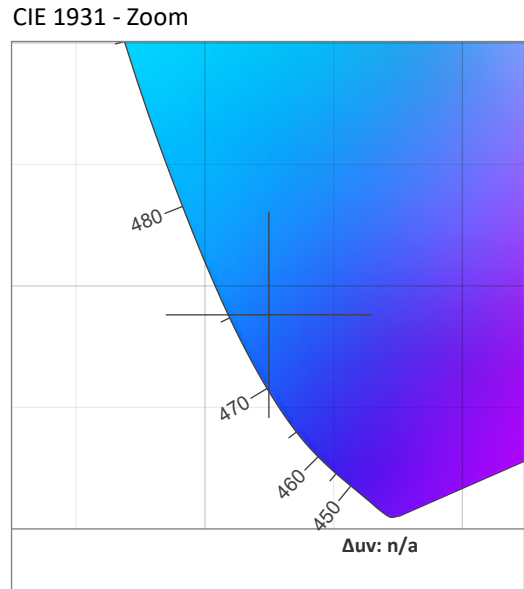
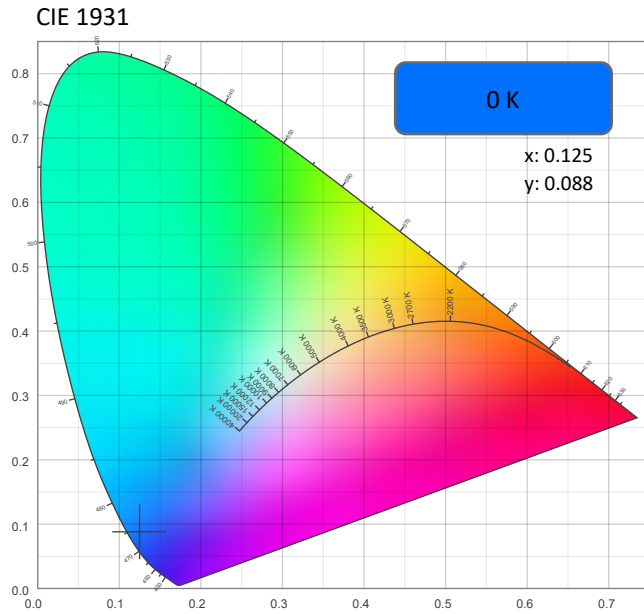
## ISO Diagrams



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

## Chromaticity



CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	

CQS: 0.0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	

Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.125	0.088

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.088	0.131

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

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# Photometric & Chromaticity Report

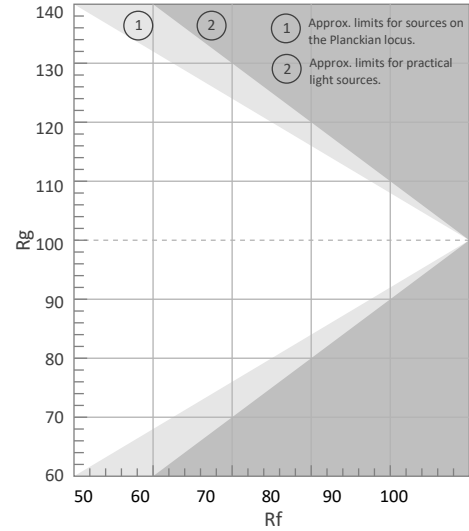
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Blue Only

## TM-30 Details

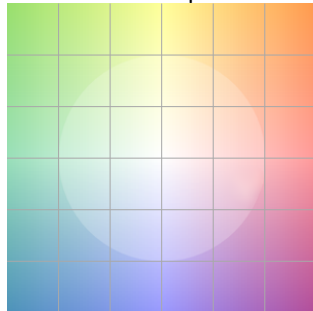
**Rf 0.0**  
Fidelity Index (Rg)

**Rg 0.0**  
Gammut Index (Rg)

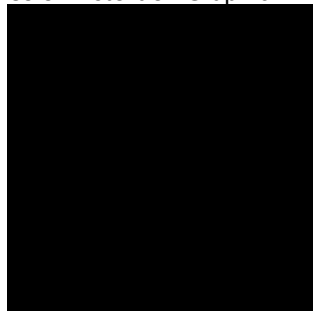
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
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13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



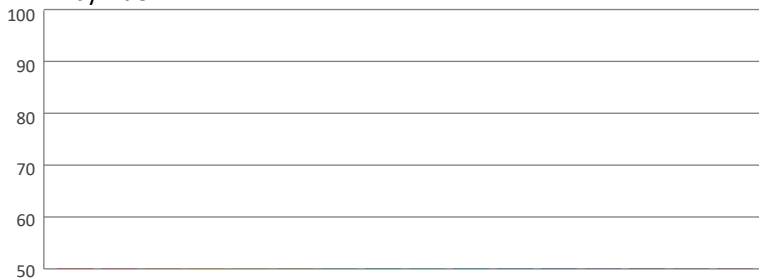
Color Vector Graphic



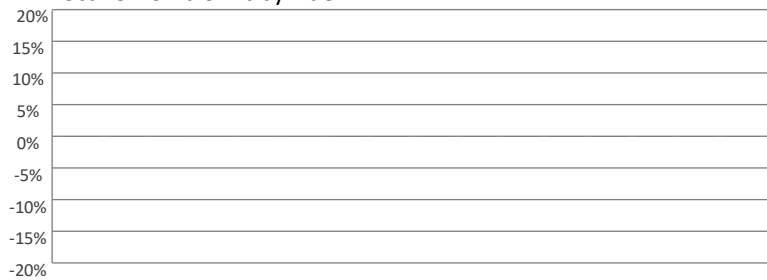
Color Distortion Graphic



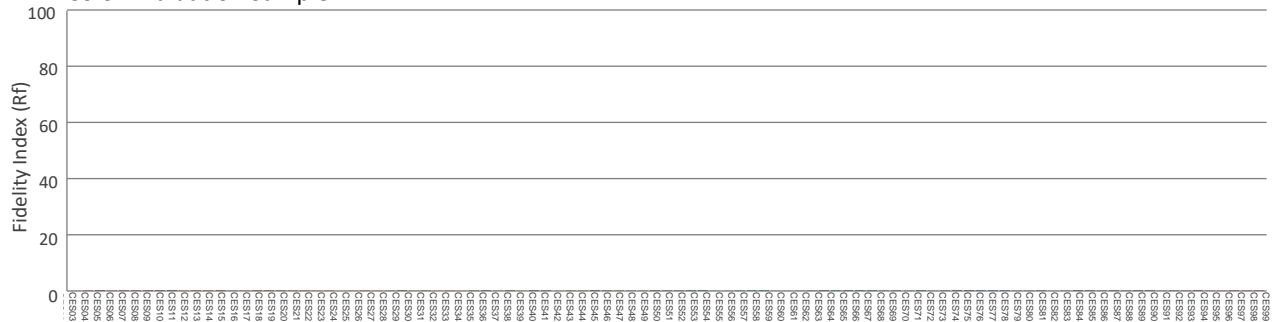
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

## Report Summary

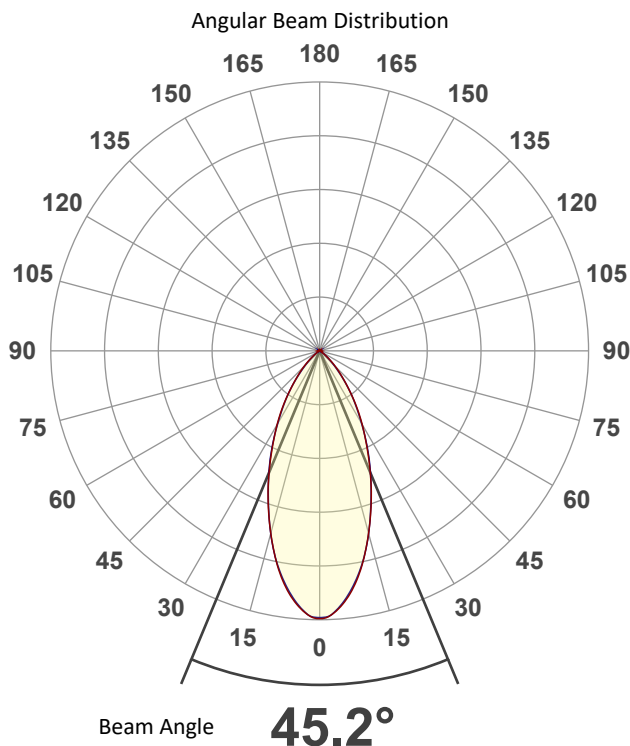
### Measurements

Fixture Output: 195 lm  
Fixture Peak: 274 cd  
Fixture Efficacy: 10 lm/W  
Intensity @ 5m: 11 lux  
Color Temperature: 2989 K  
CRI: 93.1      CRI R9 Value: 70.6  
CQS: 91.2  
TLCI: 92  
TM-30 Rf: 92.0  
TM-30 Rg: 101.6  
Beam Angle (50%): 45.2°  
Field Angle (10%): 86.5°  
Cutoff Angle (3%): 105.5°  
Conditions  
AC Supply: 120 V, 60 Hz  
Power: 22.54 W  
Current: 0.188 A  
Power Factor: 0.88



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 5/20/2022 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):  
X: 0.439  
Y: 0.406

Light Quality  
CRI: 93.1

Color Temperature  
2989 K

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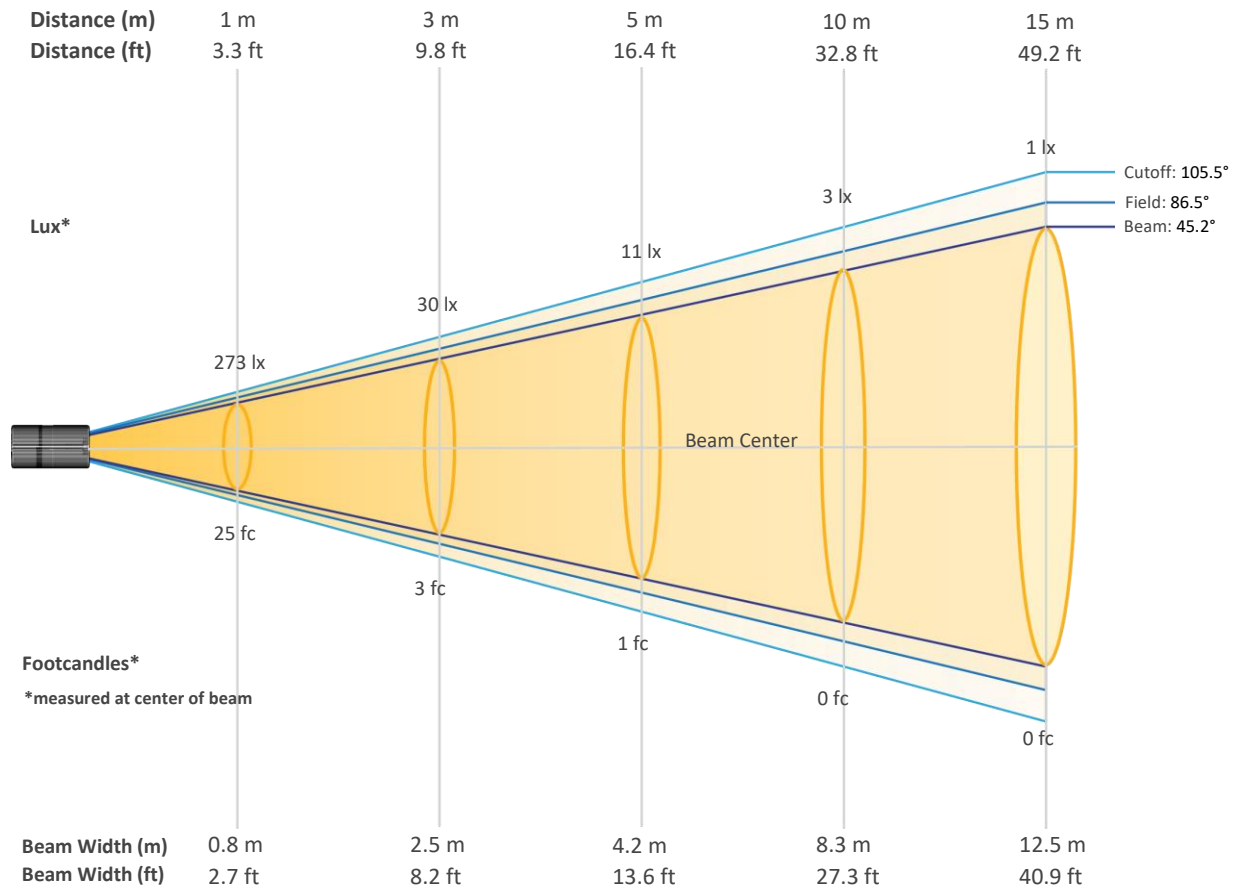
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

## Beam Details



## Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	273	68	30	17	11	8	6	4	3	3
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2	2	2	1	1	1	1	1	1	1
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	25	6	3	2	1	1	1	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

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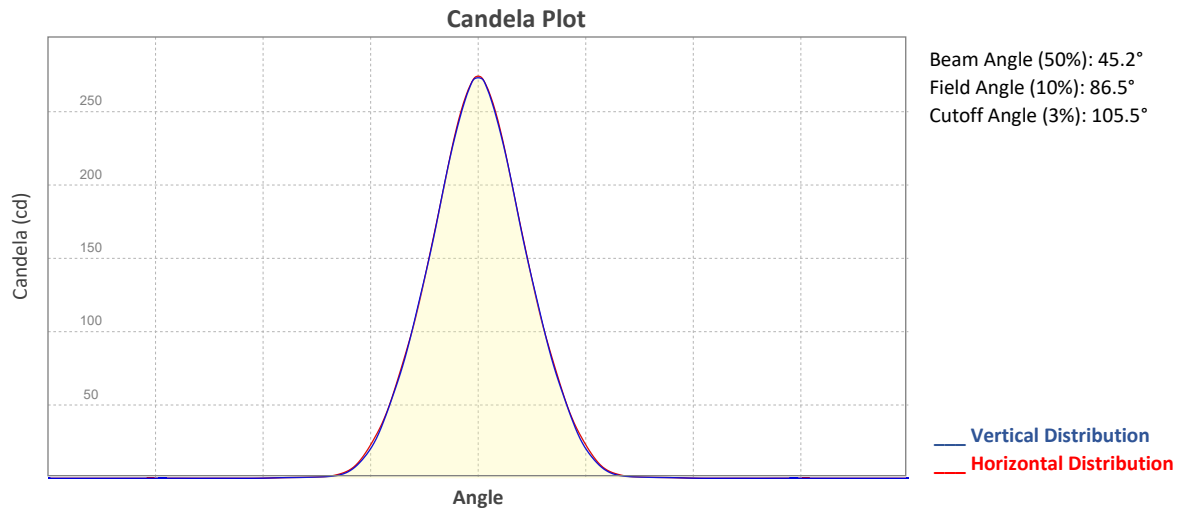
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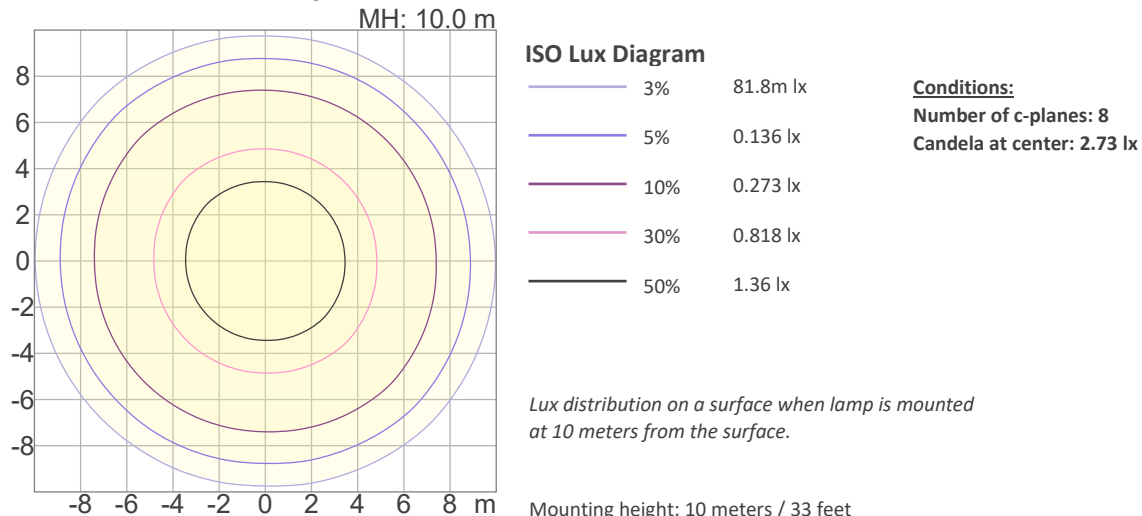
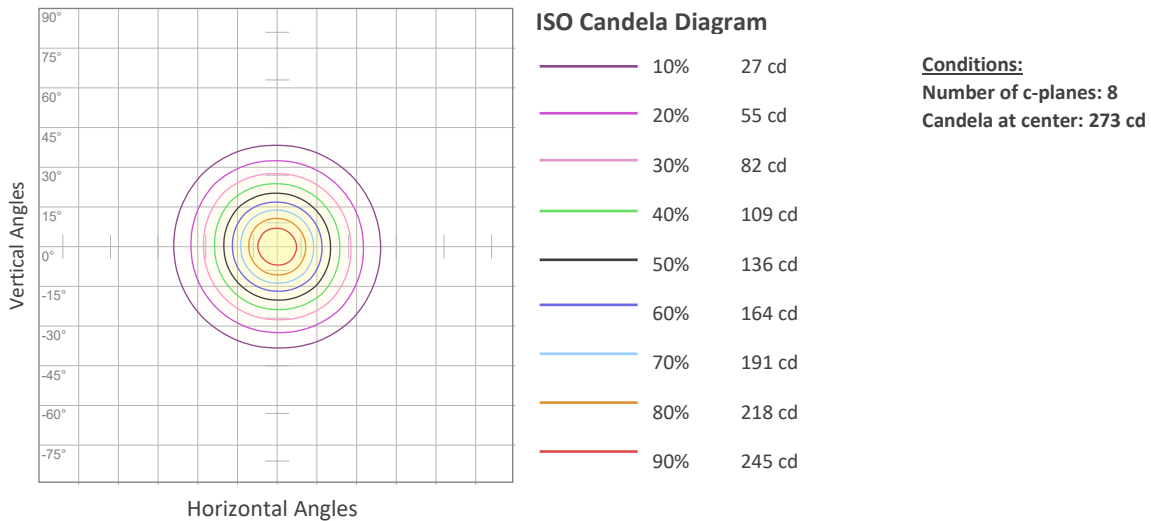
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# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only



## ISO Diagrams



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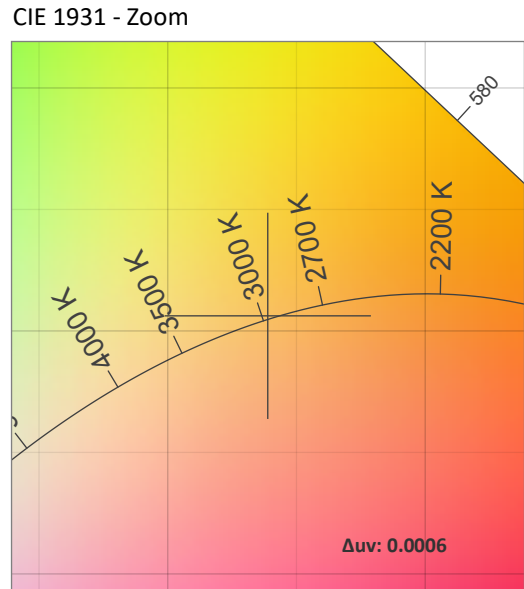
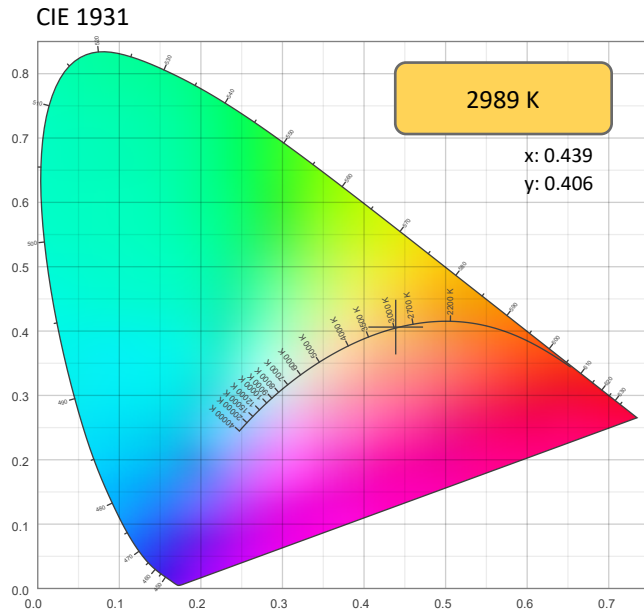
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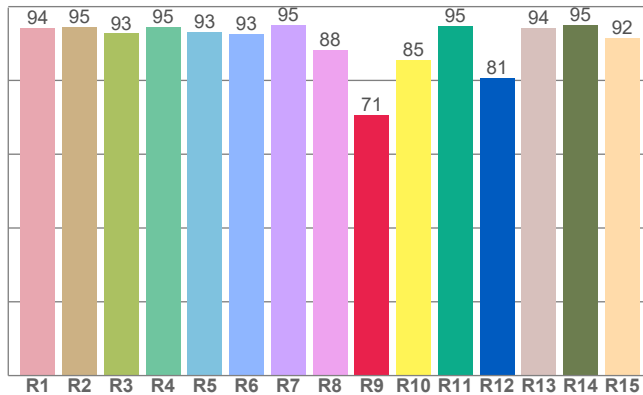
# Photometric & Chromaticity Report

Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

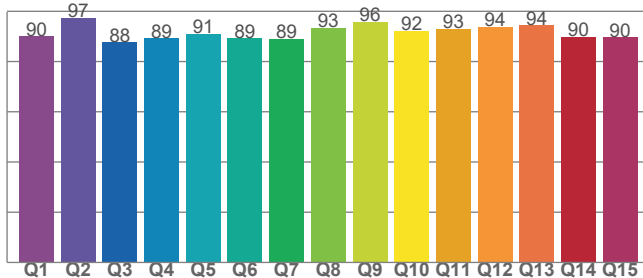
## Chromaticity



### CRI: 93.1 (R1-R8)



### CQS: 91.2



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2989 K	0.439	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0006	0.406	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	70.6	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
92	92.0	101.6

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# Photometric & Chromaticity Report

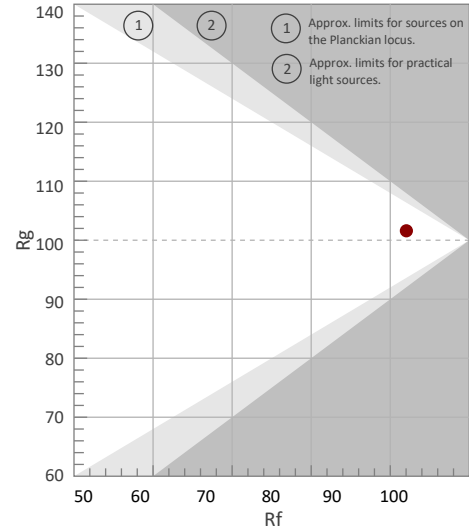
Logic AR111 Downlight M: Wide Filter Lens with Honeycomb - Warm White Only

## TM-30 Details

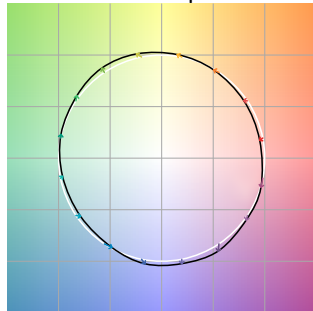
**Rf 92.0**  
Fidelity Index (Rg)

**Rg 101.6**  
Gammut Index (Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-2%
2	94	-3%	2%
3	89	-1%	5%
4	92	1%	5%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-5%
8	95	0%	-3%
9	95	-2%	-1%
10	93	-3%	3%
11	89	-1%	8%
12	90	4%	4%
13	94	4%	-1%
14	91	5%	-4%
15	92	2%	-4%
16	89	0%	-9%



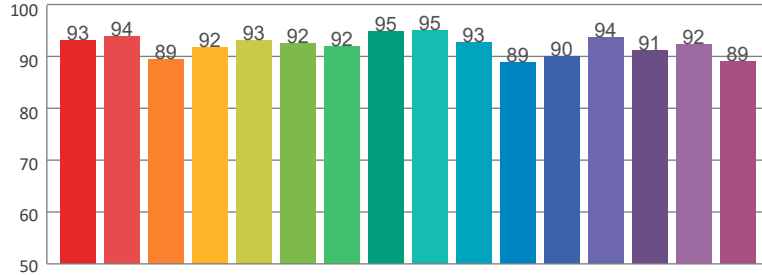
Color Vector Graphic



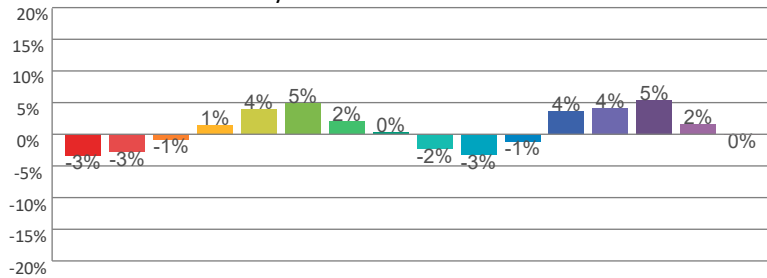
Color Distortion Graphic



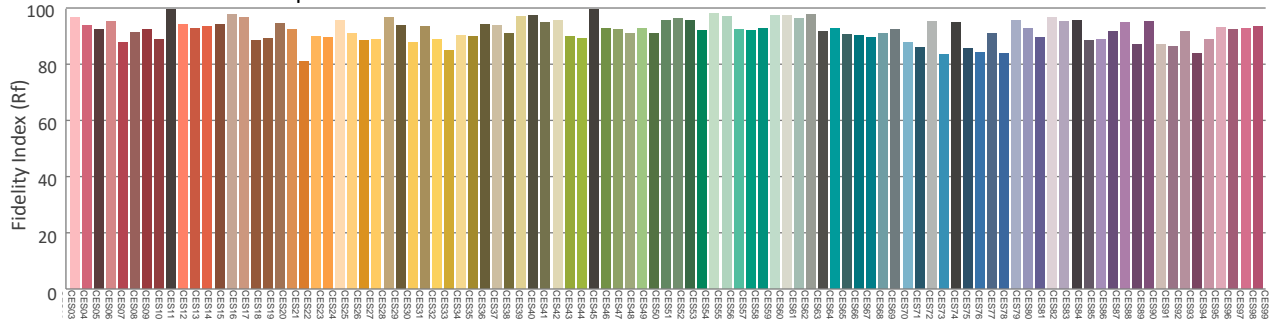
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



## Contact Us

General Information	Technical Support
<b>Chauvet World Headquarters</b>	
5200 NW 108 <sup>th</sup> Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: <a href="mailto:chauvetcs@chauvetlighting.com">chauvetcs@chauvetlighting.com</a> Website: <a href="http://www.chauvetprofessional.com">www.chauvetprofessional.com</a>
<b>Chauvet Europe Ltd</b>	
Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: <a href="mailto:UKtech@chauvetlighting.eu">UKtech@chauvetlighting.eu</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Europe BVBA</b>	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: <a href="mailto:BNLtech@chauvetlighting.eu">BNLtech@chauvetlighting.eu</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet France</b>	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: <a href="mailto:FRtech@chauvetlighting.fr">FRtech@chauvetlighting.fr</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Germany</b>	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: <a href="mailto:DEtech@chauvetlighting.de">DEtech@chauvetlighting.de</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Mexico</b>	
Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: <a href="mailto:servicio@chauvetlighting.de">servicio@chauvetlighting.de</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>

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