

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P1067940

Luminaire Tested: **NAV-SA6D-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067940
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6D-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 6xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26384.4 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 320.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

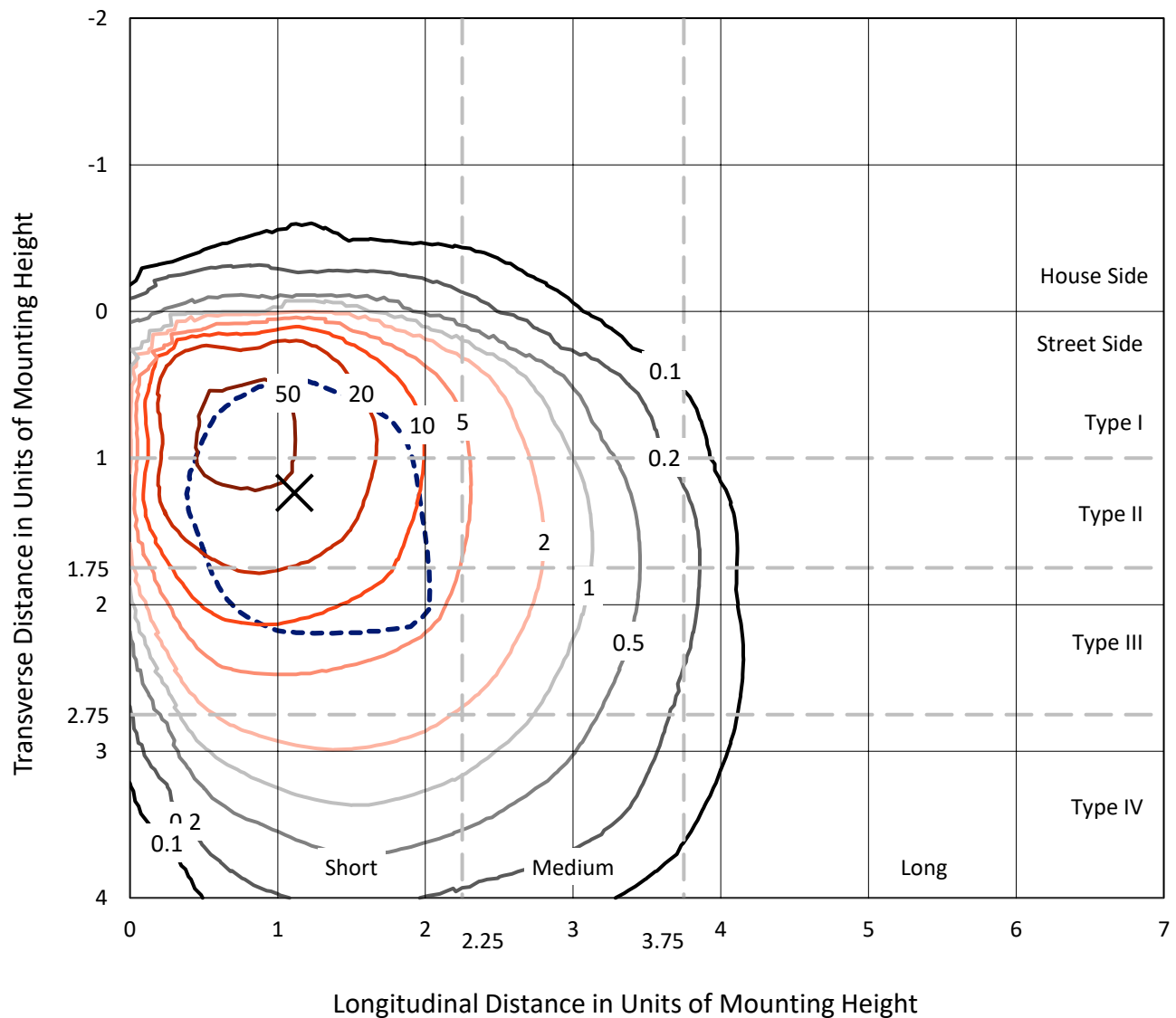


REPORT NUMBER: P1067940

CATALOG NUMBER: NAV-SA6D-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

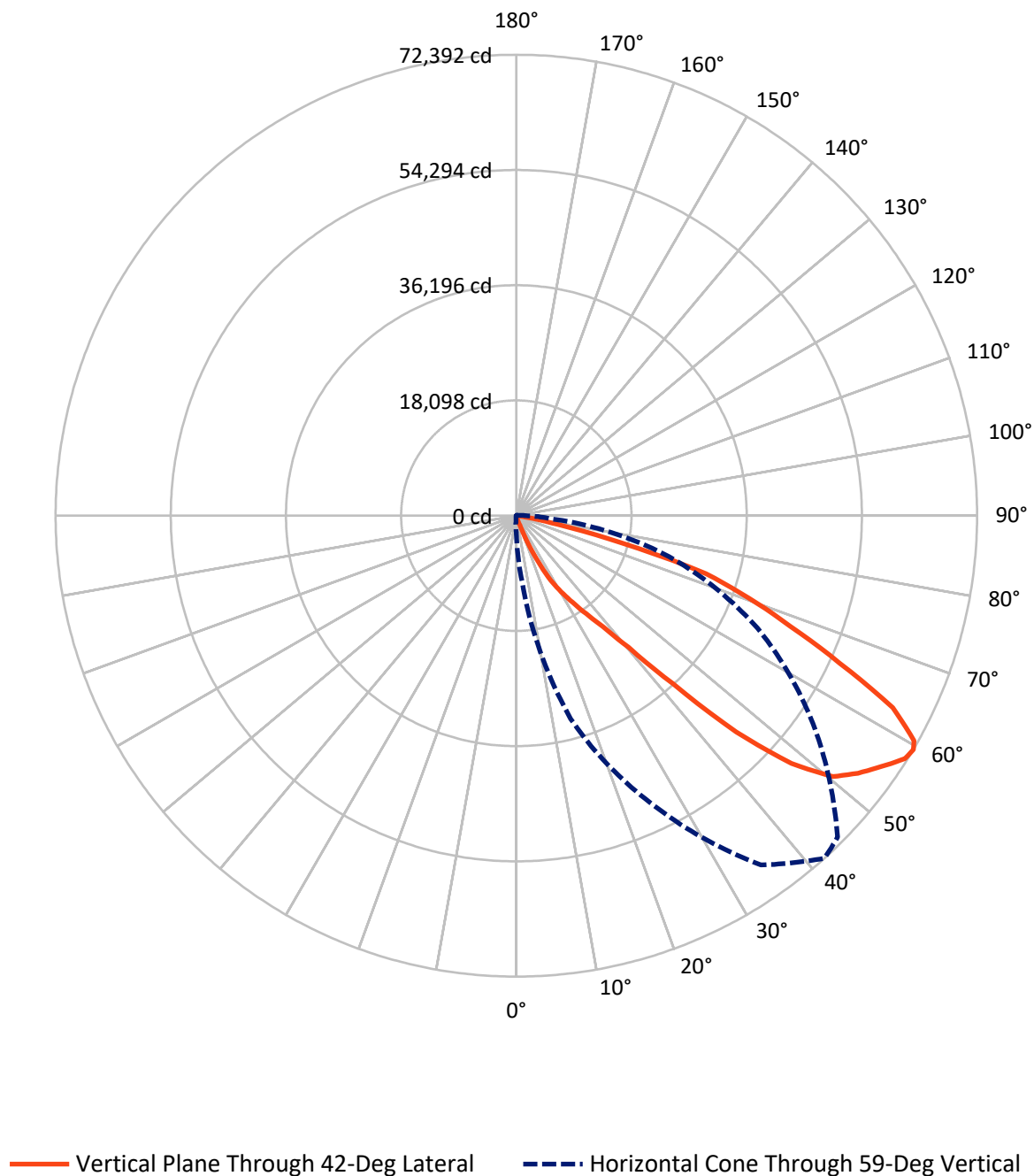


Based on 15 foot mounting height. Maximum calculated value = 78.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1067940

CATALOG NUMBER: NAV-SA6D-727-U-LBC

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.1	0.0	127.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	26257.3	0.0	26257.3
	% Fixture	99.5	0.0	99.5
Total	Lumens	26384.4	0.0	26384.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.0
10°-20°	38.5	0.1
20°-30°	492.1	1.9
30°-40°	1659.2	6.3
40°-50°	5011.6	19.0
50°-60°	8846.7	33.5
60°-70°	7789.7	29.5
70°-80°	2479.5	9.4
80°-90°	59.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26384.4	100.0
0°-180°	26384.4	100.0



REPORT NUMBER: P1067940

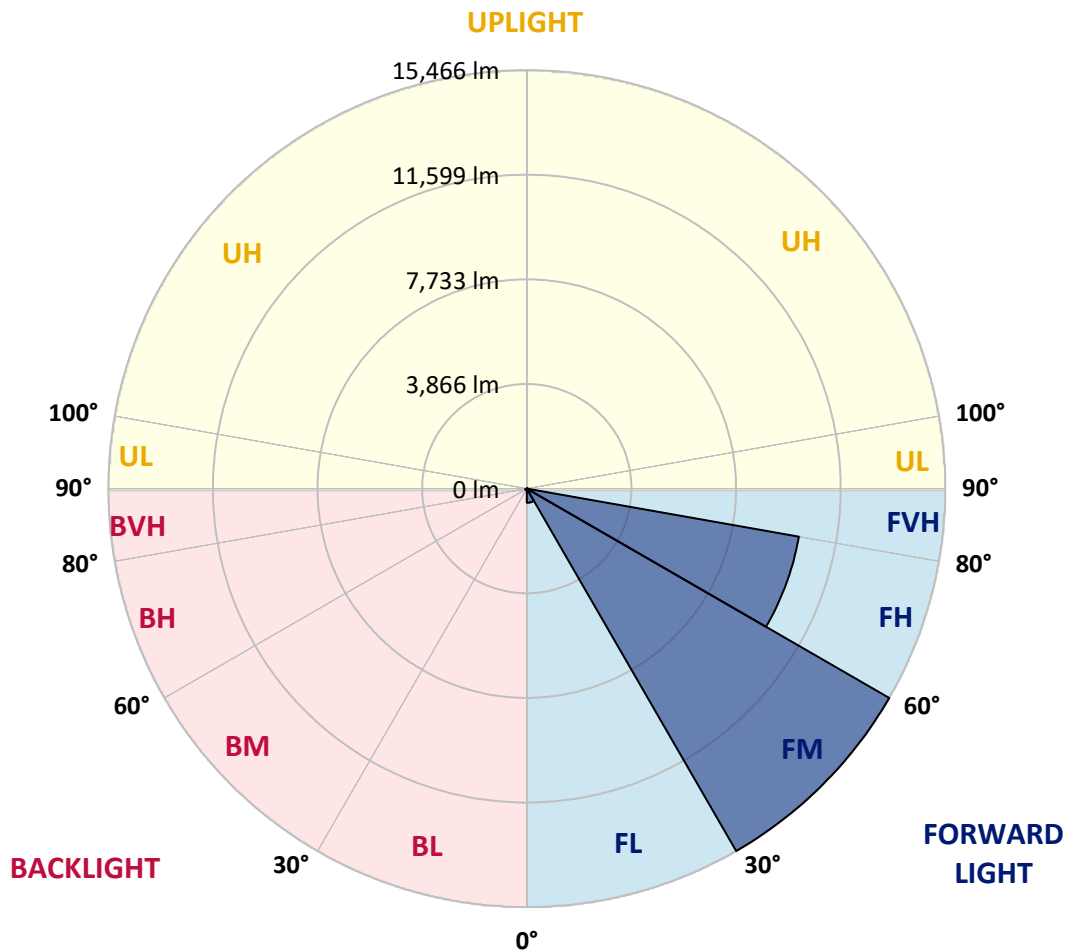
CATALOG NUMBER: NAV-SA6D-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.2	2.0			
FM	(30°-60°)	15465.7	58.6			
FH	(60°-80°)	10211.0	38.7			G4/12000
FVH	(80°-90°)	56.5	0.2			G1/100
BL	(0°-30°)	14.2	0.1	B0/110		
BM	(30°-60°)	51.9	0.2	B0/220		
BH	(60°-80°)	58.2	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short





REPORT NUMBER: P1067940

CATALOG NUMBER: NAV-SA6D-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
2.5°	115.8	115.8	107.5	99.3	91.0	82.7	82.7	82.7	74.5	74.5	66.2
5°	132.4	132.4	124.1	115.8	115.8	107.5	107.5	99.3	91.0	91.0	82.7
7.5°	140.6	140.6	140.6	140.6	132.4	132.4	132.4	124.1	115.8	107.5	99.3
10°	148.9	157.2	165.4	165.4	165.4	165.4	165.4	157.2	140.6	132.4	115.8
12.5°	165.4	173.7	190.3	206.8	206.8	215.1	206.8	198.5	182.0	157.2	132.4
15°	182.0	198.5	223.4	256.4	289.5	297.8	297.8	273.0	239.9	190.3	157.2
17.5°	206.8	231.6	297.8	405.3	521.2	612.2	612.2	546.0	380.5	248.2	182.0
20°	223.4	273.0	479.8	976.1	1489.0	1869.6	1795.1	1588.3	852.1	388.8	198.5
22.5°	248.2	347.4	1017.5	2564.4	3970.8	4665.6	4500.2	3416.5	1910.9	694.9	239.9
25°	281.3	504.6	2018.5	4806.3	7379.0	8131.8	8024.2	6378.0	3482.7	1166.4	306.1
27.5°	347.4	744.5	3234.5	7288.0	10886.5	11531.7	11490.4	9339.5	5567.3	1877.8	397.1
30°	438.4	1083.7	4798.0	9902.1	13211.0	13864.5	13657.7	11506.9	7511.3	2870.5	512.9
32.5°	546.0	1513.8	6212.6	11829.5	15353.6	16213.9	15965.7	13393.0	9074.8	3714.3	761.1
35°	711.4	1935.7	7610.6	13533.6	17827.0	18919.0	18505.4	15337.0	10423.2	4665.6	918.2
37.5°	794.2	2183.9	8892.8	15386.7	20606.5	22095.6	21781.2	17793.9	11796.4	5881.7	1125.0
40°	802.4	2481.7	10224.7	17802.2	24535.9	27191.4	26628.9	22012.9	14352.6	7445.2	1447.7
42.5°	827.2	2928.4	11953.6	21921.9	32254.1	36067.7	35430.7	29772.4	20151.6	10580.4	2051.6
45°	943.1	3772.2	15477.7	29623.5	42851.0	48443.2	47706.9	40584.4	28250.2	16478.6	3499.2
47.5°	1348.4	5674.9	21657.1	37937.2	53687.9	58146.7	57964.7	49105.0	35587.9	22525.7	5931.3
50°	2167.4	8710.8	28688.7	44927.4	60587.1	64417.2	63962.2	52662.1	39773.7	26653.7	7602.3
52.5°	2895.3	11614.4	33106.1	47500.1	62646.9	67213.2	66659.0	53960.9	40873.9	27869.7	8065.6
55°	3077.3	12665.0	34421.5	48294.3	64011.8	69579.2	68776.7	54829.5	41014.6	27001.1	7296.3
57.5°	2986.3	11672.4	33569.4	49071.9	65914.5	72011.2	70944.1	56525.3	41486.1	25528.6	6071.9
59°	2829.2	10448.0	33040.0	49692.3	66965.1	72391.8	71390.8	56897.6	41800.4	24858.6	5327.4
60°	2647.2	9620.8	32626.3	50097.7	66898.9	71796.2	70762.1	56723.8	41924.5	24279.5	4971.7
62.5°	2043.3	7676.8	32030.7	49808.1	62721.3	66361.2	65773.8	52471.8	40104.6	22426.5	3921.1
65°	1588.3	5873.4	29846.8	44422.8	53373.5	55822.2	55640.2	44431.1	33751.4	19332.6	2829.2
67.5°	1257.4	4285.1	25239.1	35976.7	42942.0	46424.7	46292.3	36067.7	25619.6	14774.5	2035.0
70°	1025.8	3052.5	17305.9	27125.2	34347.0	38731.4	38541.1	29027.8	18985.2	9372.6	1480.8
72.5°	868.6	1952.3	10497.7	20449.4	28663.9	31170.4	30616.1	23419.2	13806.6	5104.1	1174.7
75°	736.2	1199.5	5203.3	12747.8	17074.2	17057.7	16503.4	12400.3	7412.1	2498.3	934.8
77.5°	595.6	843.8	2043.3	3499.2	5385.3	6667.6	6560.0	4392.6	2217.0	728.0	579.1
80°	388.8	397.1	546.0	959.6	1480.8	1637.9	1861.3	1340.1	645.2	347.4	239.9
82.5°	173.7	190.3	248.2	314.4	314.4	289.5	256.4	190.3	140.6	115.8	57.9
85°	41.4	57.9	41.4	49.6	41.4	33.1	33.1	16.5	0.0	0.0	0.0
87.5°	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067940

CATALOG NUMBER: NAV-SA6D-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
2.5°	66.2	66.2	66.2	57.9	57.9	57.9	49.6	49.6	49.6	41.4	41.4
5°	82.7	74.5	66.2	66.2	57.9	57.9	49.6	41.4	41.4	41.4	33.1
7.5°	91.0	82.7	74.5	66.2	57.9	49.6	49.6	41.4	33.1	33.1	33.1
10°	107.5	99.3	82.7	66.2	57.9	49.6	41.4	41.4	33.1	24.8	24.8
12.5°	124.1	107.5	91.0	74.5	57.9	49.6	41.4	41.4	33.1	24.8	16.5
15°	140.6	124.1	99.3	74.5	57.9	49.6	41.4	41.4	24.8	16.5	8.3
17.5°	157.2	132.4	99.3	82.7	57.9	49.6	41.4	33.1	16.5	8.3	0.0
20°	165.4	140.6	107.5	82.7	57.9	49.6	41.4	24.8	8.3	0.0	0.0
22.5°	182.0	157.2	115.8	82.7	57.9	41.4	24.8	8.3	0.0	0.0	0.0
25°	215.1	165.4	115.8	82.7	57.9	41.4	16.5	0.0	0.0	0.0	0.0
27.5°	239.9	182.0	115.8	82.7	57.9	33.1	8.3	0.0	0.0	0.0	0.0
30°	281.3	198.5	124.1	82.7	57.9	24.8	8.3	0.0	0.0	0.0	0.0
32.5°	347.4	215.1	124.1	82.7	49.6	24.8	0.0	0.0	0.0	0.0	0.0
35°	421.9	248.2	124.1	82.7	49.6	24.8	0.0	0.0	0.0	0.0	0.0
37.5°	430.2	264.7	124.1	82.7	49.6	16.5	0.0	0.0	0.0	0.0	0.0
40°	446.7	248.2	132.4	82.7	49.6	16.5	0.0	0.0	0.0	0.0	0.0
42.5°	512.9	231.6	140.6	82.7	49.6	16.5	0.0	0.0	0.0	0.0	0.0
45°	761.1	239.9	140.6	91.0	49.6	24.8	0.0	0.0	0.0	0.0	0.0
47.5°	1323.6	248.2	132.4	91.0	49.6	24.8	0.0	0.0	0.0	0.0	0.0
50°	1695.8	289.5	132.4	99.3	57.9	16.5	0.0	0.0	0.0	0.0	0.0
52.5°	1803.4	339.2	132.4	107.5	74.5	8.3	0.0	0.0	0.0	0.0	0.0
55°	1753.7	397.1	140.6	115.8	91.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1621.4	430.2	148.9	124.1	99.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	1480.8	455.0	173.7	132.4	99.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1364.9	479.8	182.0	140.6	99.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1100.2	512.9	198.5	165.4	82.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	959.6	537.7	206.8	182.0	74.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	876.9	554.3	223.4	190.3	66.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	810.7	546.0	239.9	182.0	57.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	736.2	521.2	289.5	165.4	49.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	661.8	471.5	314.4	148.9	33.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	479.8	397.1	289.5	132.4	16.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	206.8	215.1	206.8	99.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	49.6	41.4	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067940

CATALOG NUMBER: NAV-SA6D-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
2.5°	41.4	41.4	41.4	41.4	49.6	49.6	66.2	82.7	99.3	107.5	107.5
5°	33.1	33.1	33.1	33.1	33.1	41.4	49.6	66.2	91.0	99.3	99.3
7.5°	24.8	24.8	24.8	24.8	24.8	24.8	41.4	57.9	82.7	91.0	99.3
10°	24.8	16.5	16.5	8.3	8.3	16.5	24.8	49.6	74.5	82.7	91.0
12.5°	16.5	8.3	8.3	0.0	0.0	8.3	16.5	41.4	66.2	74.5	82.7
15°	8.3	0.0	0.0	0.0	0.0	0.0	8.3	33.1	57.9	66.2	82.7
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	49.6	66.2	74.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	41.4	57.9	66.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	33.1	49.6	57.9
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	33.1	41.4
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	24.8	33.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	24.8	33.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5	24.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5	24.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5	16.5
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	16.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067940

CATALOG NUMBER: NAV-SA6D-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
2.5°	115.8	115.8	107.5	99.3	99.3	99.3	107.5	115.8	115.8	115.8
5°	107.5	107.5	99.3	99.3	99.3	99.3	107.5	124.1	132.4	132.4
7.5°	107.5	107.5	99.3	99.3	99.3	99.3	107.5	124.1	132.4	140.6
10°	99.3	99.3	99.3	99.3	91.0	99.3	107.5	124.1	148.9	148.9
12.5°	99.3	99.3	99.3	99.3	91.0	99.3	115.8	132.4	157.2	165.4
15°	99.3	99.3	99.3	91.0	91.0	99.3	115.8	140.6	165.4	182.0
17.5°	91.0	99.3	99.3	91.0	91.0	99.3	115.8	140.6	182.0	206.8
20°	82.7	91.0	99.3	91.0	91.0	91.0	115.8	140.6	190.3	223.4
22.5°	74.5	82.7	91.0	91.0	82.7	91.0	115.8	148.9	206.8	248.2
25°	66.2	74.5	74.5	82.7	82.7	91.0	115.8	148.9	215.1	281.3
27.5°	49.6	57.9	66.2	74.5	74.5	91.0	115.8	157.2	231.6	347.4
30°	41.4	49.6	57.9	66.2	74.5	91.0	115.8	157.2	248.2	438.4
32.5°	41.4	49.6	57.9	66.2	74.5	82.7	115.8	165.4	273.0	546.0
35°	33.1	41.4	49.6	66.2	66.2	82.7	115.8	165.4	297.8	711.4
37.5°	33.1	41.4	49.6	66.2	66.2	82.7	115.8	165.4	364.0	794.2
40°	24.8	33.1	41.4	66.2	66.2	82.7	124.1	173.7	372.3	802.4
42.5°	24.8	33.1	41.4	57.9	66.2	82.7	124.1	173.7	347.4	827.2
45°	24.8	33.1	41.4	66.2	74.5	91.0	124.1	182.0	339.2	943.1
47.5°	24.8	33.1	41.4	66.2	82.7	91.0	124.1	182.0	347.4	1348.4
50°	24.8	33.1	41.4	66.2	91.0	91.0	124.1	182.0	380.5	2167.4
52.5°	16.5	24.8	33.1	57.9	74.5	99.3	132.4	173.7	405.3	2895.3
55°	16.5	16.5	24.8	49.6	66.2	107.5	140.6	173.7	471.5	3077.3
57.5°	16.5	16.5	24.8	41.4	57.9	115.8	148.9	173.7	546.0	2986.3
59°	16.5	16.5	24.8	41.4	57.9	115.8	148.9	173.7	546.0	2986.3
60°	16.5	16.5	16.5	33.1	49.6	115.8	157.2	190.3	562.5	2647.2
62.5°	8.3	8.3	8.3	33.1	41.4	115.8	173.7	231.6	579.1	2043.3
65°	16.5	16.5	8.3	24.8	41.4	99.3	198.5	248.2	587.3	1588.3
67.5°	16.5	16.5	16.5	33.1	41.4	99.3	206.8	256.4	587.3	1257.4
70°	16.5	16.5	16.5	33.1	49.6	99.3	206.8	264.7	579.1	1025.8
72.5°	16.5	16.5	16.5	33.1	49.6	91.0	190.3	273.0	554.3	868.6
75°	16.5	16.5	16.5	24.8	41.4	82.7	182.0	297.8	504.6	736.2
77.5°	16.5	16.5	16.5	16.5	33.1	66.2	165.4	330.9	446.7	595.6
80°	24.8	16.5	16.5	16.5	24.8	57.9	157.2	322.6	372.3	388.8
82.5°	24.8	16.5	16.5	8.3	16.5	41.4	124.1	248.2	190.3	173.7
85°	16.5	16.5	16.5	8.3	8.3	24.8	57.9	74.5	57.9	41.4
87.5°	16.5	16.5	16.5	8.3	8.3	8.3	8.3	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-3

CIE 1931 Chromaticity Diagram

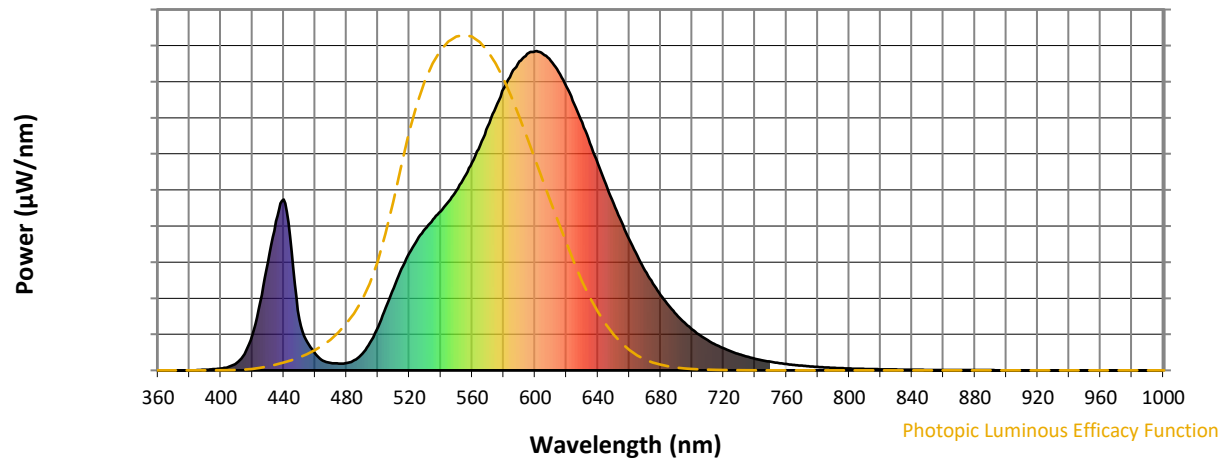


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.02

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

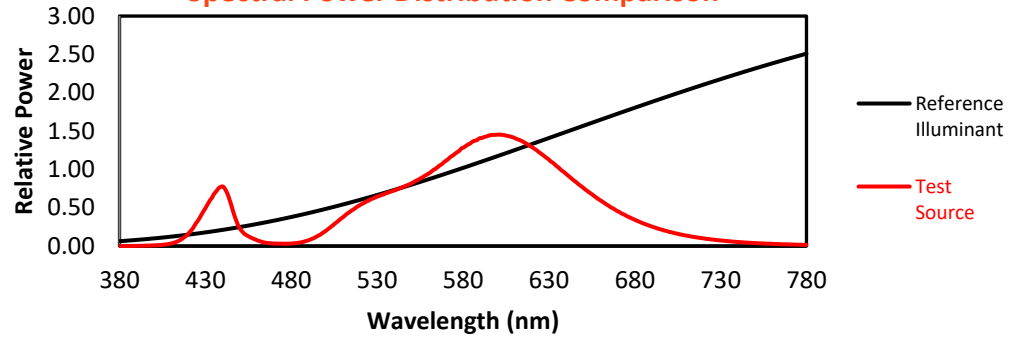
REPORT NUMBER: SP1-2407-184-3

TM-30-18

Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)