

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: McGRAW-EDISON

Report Number: P1049547

Luminaire Tested: **GALN-SA4C-727-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049547
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

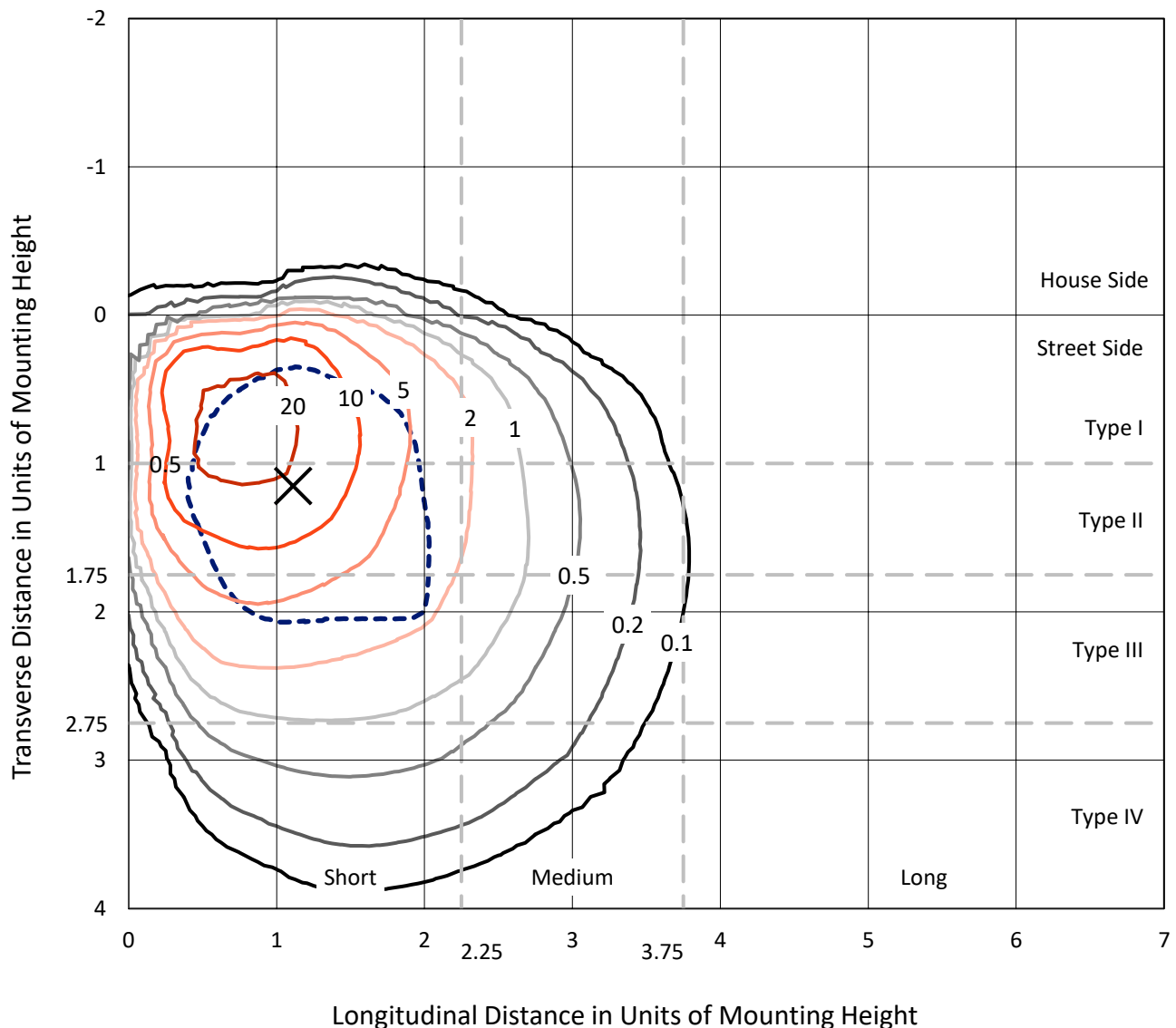
Lumens per Lamp: N/A
Luminaire Lumens: 18633.8 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 190.4
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

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Iso-Footcandle Lines of Horizontal Illumination

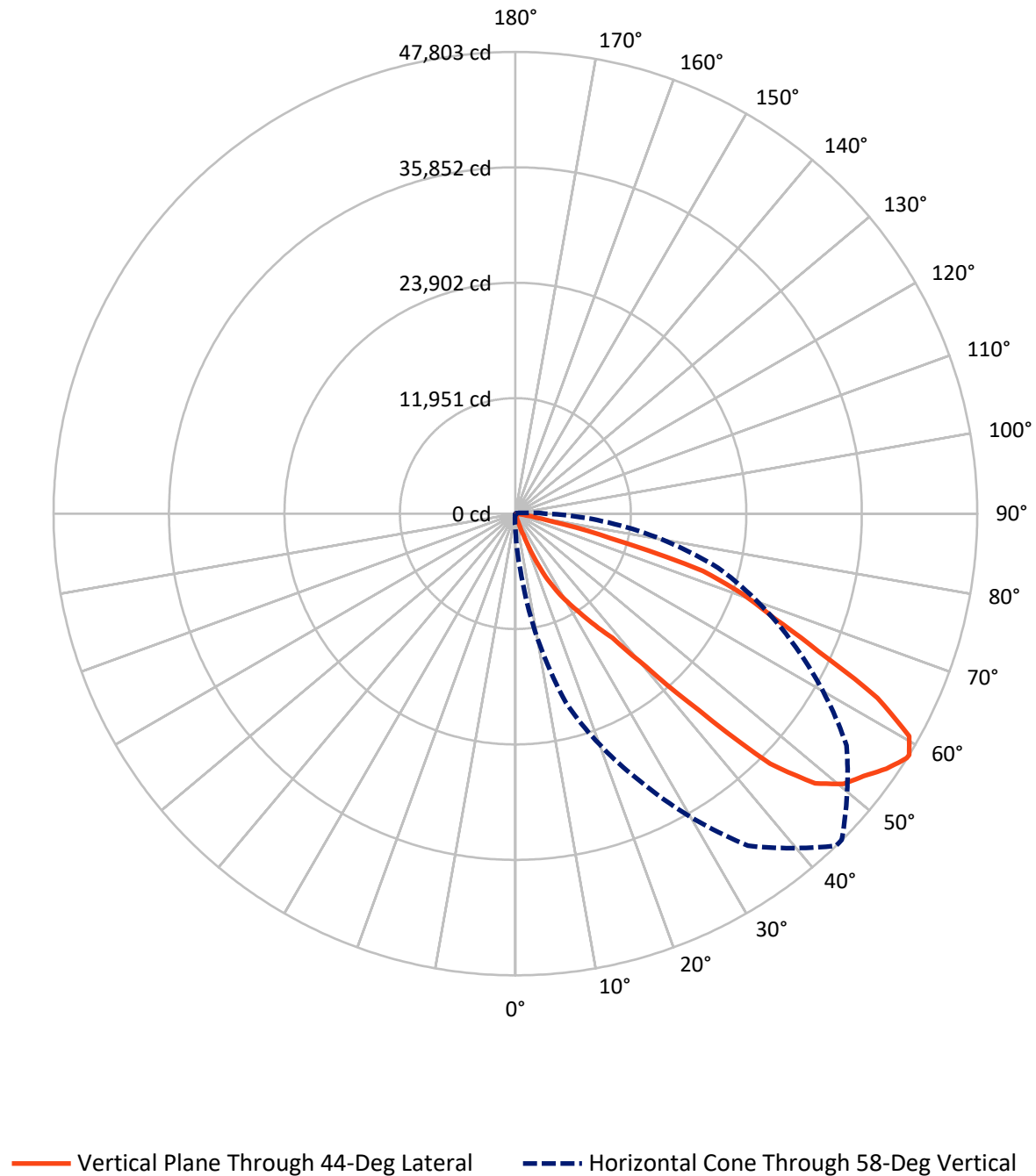
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 32.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.2	0.0	127.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	18506.6	0.0	18506.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	18633.8	0.0	18633.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.0
10°-20°	40.9	0.2
20°-30°	441.4	2.4
30°-40°	1305.5	7.0
40°-50°	3891.0	20.9
50°-60°	6174.1	33.1
60°-70°	5150.0	27.6
70°-80°	1588.3	8.5
80°-90°	35.3	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°	18633.8	100.0
0°-180°	18633.8	100.0



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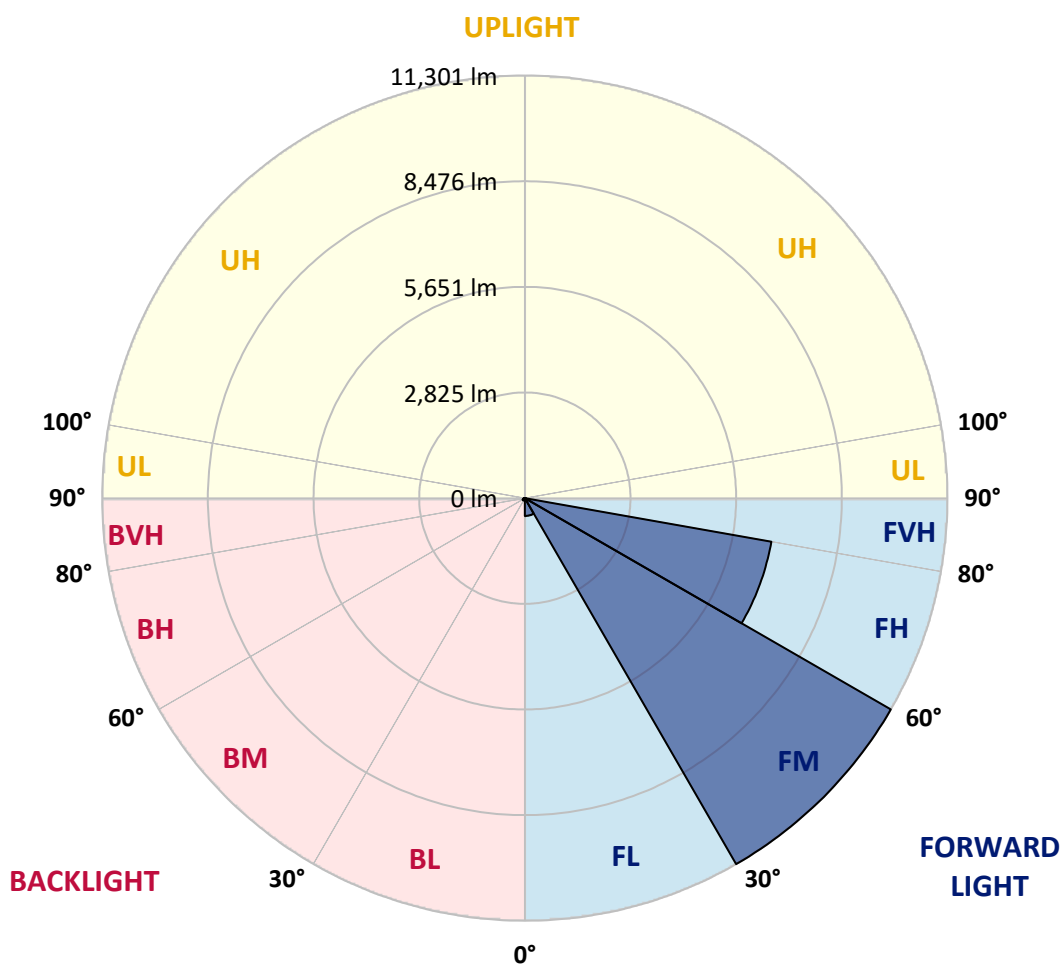
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.1	2.6			
FM	(30°-60°)	11301.0	60.6			
FH	(60°-80°)	6694.9	35.9			G3/7500
FVH	(80°-90°)	33.6	0.2			G1/100
BL	(0°-30°)	12.4	0.1	B0/110		
BM	(30°-60°)	69.6	0.4	B0/220		
BH	(60°-80°)	43.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	105.6	105.6	101.3	95.7	90.1	84.5	83.1	80.2	78.8	77.4	76.0
5°	109.8	109.8	108.4	104.2	98.5	94.3	94.3	90.1	87.3	84.5	81.6
7.5°	112.6	114.0	116.8	115.4	112.6	108.4	108.4	105.6	101.3	94.3	90.1
10°	116.8	121.1	126.7	129.5	130.9	130.9	129.5	128.1	121.1	111.2	99.9
12.5°	121.1	129.5	143.6	157.7	166.1	177.4	176.0	173.1	154.8	133.7	114.0
15°	129.5	142.2	171.7	212.6	275.9	315.3	330.8	316.7	256.2	180.2	132.3
17.5°	139.4	160.5	249.2	444.8	729.2	864.3	945.9	879.8	582.8	342.1	166.1
20°	149.2	195.7	463.1	1152.8	1891.9	2333.8	2456.3	2264.9	1454.1	651.7	246.3
22.5°	166.1	274.5	938.9	2383.1	4076.5	4739.5	4864.8	4252.4	2746.3	1286.6	370.2
25°	201.3	398.4	1618.8	3883.6	6083.8	7202.8	7150.8	6348.4	4455.1	2055.1	563.1
27.5°	252.0	579.9	2447.9	5517.9	8006.6	8993.3	9111.6	8119.2	5938.8	3022.2	799.5
30°	325.2	803.8	3337.5	6827.0	9547.9	10614.9	10634.6	9608.5	7266.2	3871.0	1089.5
32.5°	395.5	1014.9	4115.9	8092.5	11066.8	12236.5	12323.8	11061.1	8257.1	4755.0	1341.5
35°	449.0	1152.8	4904.2	9204.5	12598.3	14210.0	14204.4	12705.3	9431.1	5544.6	1690.6
37.5°	453.3	1290.8	5617.8	10341.8	14538.0	16342.6	16521.3	14868.8	10850.0	6521.5	2118.5
40°	443.4	1445.6	6521.5	12115.5	18033.1	20801.9	20959.6	18876.3	13696.2	8193.8	2787.1
42.5°	454.7	1714.5	7988.3	15391.0	23836.8	27813.3	28117.4	25927.1	18928.4	11605.9	3979.4
45°	513.8	2219.8	11061.1	20870.9	32109.4	36957.3	36855.9	33701.4	25016.4	16800.0	6338.5
47.5°	709.4	3457.1	15616.2	26204.4	37396.5	41713.7	41800.9	37945.4	28569.2	20793.5	9515.6
50°	1090.9	5289.9	19443.6	29023.9	39669.8	44001.0	43919.4	39464.3	29919.1	22759.9	11462.3
52.5°	1418.9	6615.9	21363.6	30013.4	39961.2	45131.4	45125.7	39864.0	30128.9	22928.9	11705.8
55°	1500.5	6715.8	21379.1	30066.9	40614.3	46610.8	46796.6	40848.0	30400.5	22191.3	10789.5
57.5°	1468.2	5945.8	20486.6	30376.6	41777.0	47755.2	47765.0	41800.9	31090.3	21739.4	9272.0
58°	1440.0	5824.8	20306.4	30552.6	41976.9	47803.0	47779.1	41844.6	31651.9	21722.5	9034.2
60°	1282.3	5057.6	19604.0	31001.6	41679.9	46820.5	46596.7	40891.6	31568.9	21549.4	7836.3
62.5°	1007.9	3945.6	18912.9	30482.2	38495.8	42064.2	42157.1	36202.8	28779.0	20540.1	6424.4
65°	802.3	2940.5	17471.5	26737.9	31699.8	34543.2	34889.5	29439.1	24021.2	17392.7	4736.7
67.5°	639.1	2125.5	14656.2	21287.6	25083.9	28829.6	29081.6	24716.5	18610.3	13326.0	3365.6
70°	519.4	1437.2	10116.6	15568.4	20689.3	24900.9	24916.4	20533.1	13890.5	8731.5	2111.4
72.5°	460.3	995.2	5872.6	11353.9	16776.1	20291.0	19881.3	16662.1	10675.5	5171.6	1258.4
75°	398.4	660.2	2880.0	6941.0	10171.5	10240.5	10396.7	7729.3	5336.3	2459.1	754.5
77.5°	328.0	468.7	1134.5	1896.1	3050.3	3904.8	4049.7	3068.6	1775.0	605.3	402.6
80°	225.2	222.4	305.5	581.4	872.7	1093.7	1020.5	789.7	464.5	232.3	143.6
82.5°	97.1	105.6	137.9	166.1	135.1	130.9	125.3	80.2	61.9	47.9	29.6
85°	31.0	28.2	29.6	29.6	23.9	18.3	18.3	8.4	0.0	0.0	0.0
87.5°	15.5	12.7	12.7	11.3	7.0	2.8	1.4	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	74.6	74.6	71.8	69.0	67.6	64.8	63.3	61.9	60.5	59.1	57.7
5°	78.8	77.4	73.2	69.0	64.8	60.5	57.7	54.9	52.1	50.7	49.3
7.5°	85.9	83.1	74.6	67.6	61.9	56.3	53.5	49.3	46.5	42.2	40.8
10°	94.3	88.7	77.4	69.0	60.5	53.5	49.3	45.0	40.8	35.2	33.8
12.5°	105.6	95.7	81.6	67.6	57.7	49.3	45.0	39.4	35.2	31.0	28.2
15°	115.4	102.8	83.1	67.6	54.9	45.0	39.4	33.8	29.6	23.9	21.1
17.5°	129.5	108.4	81.6	63.3	50.7	39.4	33.8	29.6	22.5	14.1	11.3
20°	153.4	112.6	78.8	59.1	43.6	32.4	25.3	19.7	9.9	2.8	0.0
22.5°	191.4	123.9	76.0	53.5	38.0	25.3	16.9	7.0	0.0	0.0	0.0
25°	264.6	143.6	76.0	50.7	33.8	18.3	5.6	0.0	0.0	0.0	0.0
27.5°	351.9	170.3	76.0	43.6	26.7	9.9	0.0	0.0	0.0	0.0	0.0
30°	440.6	199.9	76.0	38.0	21.1	1.4	0.0	0.0	0.0	0.0	0.0
32.5°	525.0	225.2	77.4	32.4	14.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	610.9	229.4	76.0	28.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	720.7	221.0	71.8	25.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	886.8	225.2	67.6	23.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1193.7	243.5	61.9	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2063.6	326.6	56.3	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3413.5	587.0	54.9	25.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4356.6	739.0	57.7	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4349.6	823.5	60.5	28.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
55°	3866.8	838.9	64.8	31.0	18.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3231.9	765.7	74.6	38.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0
58°	3119.3	732.0	77.4	39.4	36.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	2556.3	596.8	98.5	49.3	49.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1765.2	520.8	112.6	63.3	50.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	1248.6	470.1	122.5	67.6	40.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	933.3	433.5	135.1	69.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	715.1	406.8	166.1	73.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	582.8	375.8	201.3	76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	482.8	339.2	194.3	83.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	320.9	263.2	177.4	83.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	112.6	104.2	137.9	73.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.9	14.1	19.7	25.3	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	57.7	57.7	56.3	57.7	57.7	60.5	67.6	77.4	88.7	92.9	97.1
5°	47.9	46.5	45.0	45.0	45.0	49.3	54.9	66.2	78.8	84.5	87.3
7.5°	39.4	38.0	36.6	35.2	35.2	38.0	45.0	57.7	70.4	76.0	80.2
10°	32.4	29.6	28.2	26.7	26.7	29.6	36.6	49.3	63.3	69.0	74.6
12.5°	26.7	22.5	19.7	18.3	16.9	21.1	28.2	39.4	54.9	61.9	67.6
15°	18.3	14.1	9.9	8.4	7.0	11.3	18.3	31.0	46.5	54.9	60.5
17.5°	9.9	4.2	1.4	0.0	0.0	2.8	8.4	22.5	38.0	45.0	52.1
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	28.2	35.2	42.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.9	23.9	31.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	12.7	18.3
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.4
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	11.3	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: GALN-SA4C-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	99.9	98.5	95.7	92.9	92.9	92.9	97.1	101.3	105.6	105.6
5°	92.9	92.9	91.5	88.7	88.7	90.1	95.7	102.8	108.4	109.8
7.5°	85.9	88.7	85.9	84.5	85.9	87.3	92.9	101.3	109.8	112.6
10°	81.6	83.1	83.1	81.6	81.6	84.5	90.1	101.3	112.6	116.8
12.5°	76.0	78.8	77.4	77.4	77.4	80.2	87.3	99.9	115.4	121.1
15°	70.4	74.6	74.6	73.2	73.2	74.6	84.5	98.5	119.6	129.5
17.5°	64.8	69.0	70.4	67.6	67.6	70.4	80.2	98.5	122.5	139.4
20°	53.5	60.5	64.8	60.5	60.5	63.3	73.2	92.9	123.9	149.2
22.5°	42.2	49.3	54.9	53.5	53.5	54.9	67.6	88.7	125.3	166.1
25°	31.0	38.0	42.2	45.0	45.0	49.3	61.9	85.9	130.9	201.3
27.5°	18.3	26.7	32.4	35.2	36.6	42.2	57.7	83.1	140.8	252.0
30°	8.4	15.5	22.5	28.2	28.2	38.0	53.5	80.2	153.4	325.2
32.5°	0.0	7.0	11.3	19.7	21.1	31.0	49.3	77.4	171.7	395.5
35°	0.0	0.0	5.6	15.5	15.5	25.3	45.0	74.6	199.9	449.0
37.5°	0.0	0.0	0.0	11.3	12.7	22.5	43.6	73.2	205.5	453.3
40°	0.0	0.0	0.0	8.4	9.9	21.1	43.6	74.6	185.8	443.4
42.5°	0.0	0.0	0.0	5.6	7.0	21.1	43.6	77.4	167.5	454.7
45°	0.0	0.0	0.0	4.2	5.6	22.5	42.2	76.0	157.7	513.8
47.5°	0.0	0.0	0.0	5.6	8.4	22.5	40.8	74.6	159.1	709.4
50°	0.0	0.0	0.0	7.0	9.9	22.5	42.2	71.8	174.5	1090.9
52.5°	0.0	0.0	0.0	5.6	8.4	25.3	46.5	70.4	190.0	1418.9
55°	0.0	0.0	0.0	1.4	4.2	32.4	50.7	70.4	214.0	1500.5
57.5°	0.0	0.0	0.0	0.0	0.0	36.6	57.7	74.6	253.4	1468.2
58°	0.0	0.0	0.0	0.0	0.0	36.6	59.1	74.6	256.2	1440.0
60°	0.0	0.0	0.0	0.0	0.0	36.6	64.8	83.1	275.9	1282.3
62.5°	0.0	0.0	0.0	0.0	0.0	31.0	77.4	104.2	287.2	1007.9
65°	0.0	0.0	0.0	0.0	0.0	25.3	91.5	114.0	295.6	802.3
67.5°	0.0	0.0	0.0	0.0	0.0	23.9	94.3	115.4	299.8	639.1
70°	0.0	0.0	0.0	0.0	0.0	25.3	92.9	123.9	313.9	519.4
72.5°	0.0	0.0	0.0	0.0	0.0	28.2	84.5	136.5	313.9	460.3
75°	0.0	0.0	0.0	0.0	0.0	29.6	78.8	153.4	285.7	398.4
77.5°	0.0	0.0	0.0	0.0	0.0	28.2	77.4	178.8	254.8	328.0
80°	2.8	4.2	4.2	2.8	2.8	23.9	76.0	181.6	216.8	225.2
82.5°	8.4	11.3	9.9	7.0	7.0	21.1	67.6	152.0	112.6	97.1
85°	15.5	18.3	18.3	15.5	15.5	19.7	42.2	54.9	38.0	31.0
87.5°	21.1	23.9	23.9	21.1	21.1	19.7	18.3	16.9	15.5	15.5
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

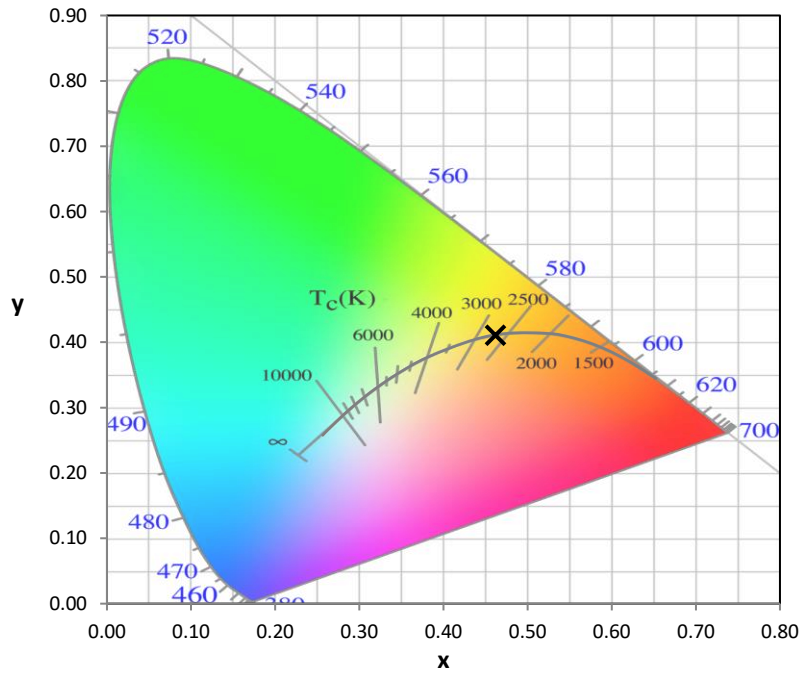
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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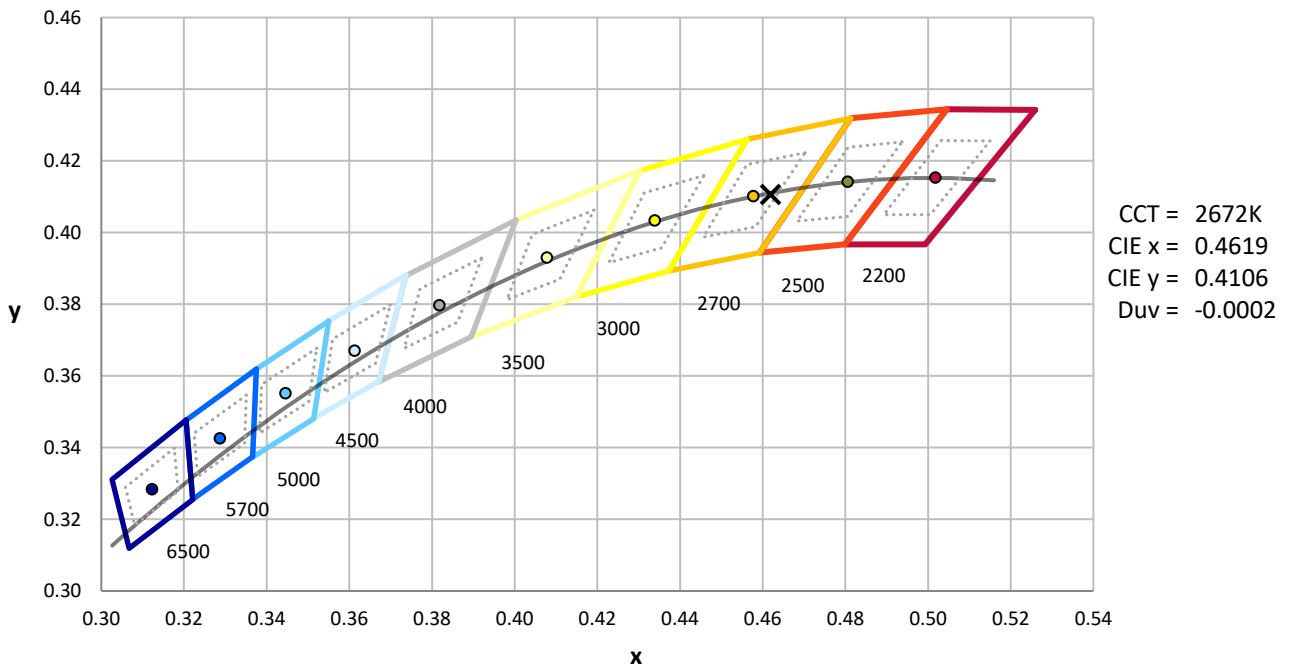
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



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Photopic Flux vs. Wavelength

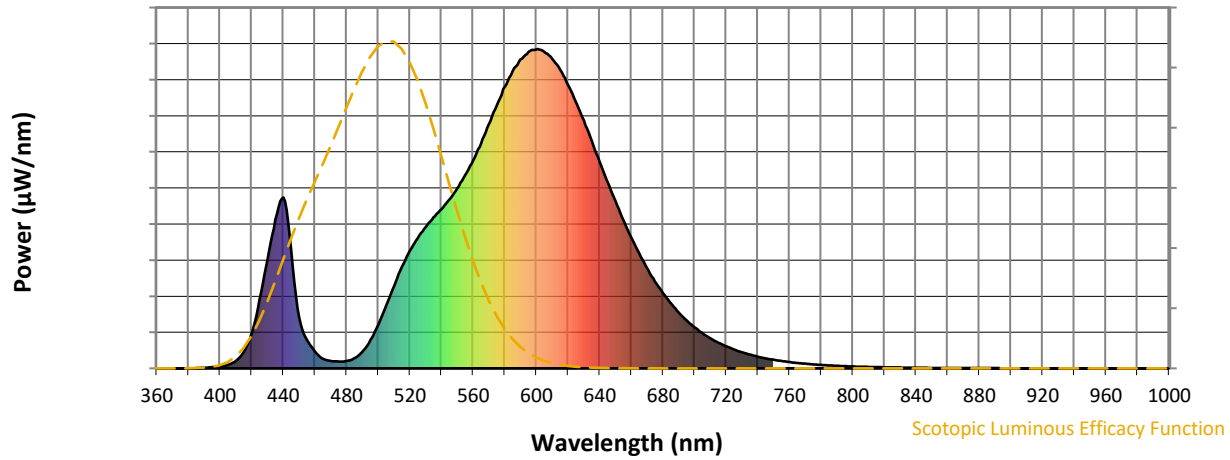


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



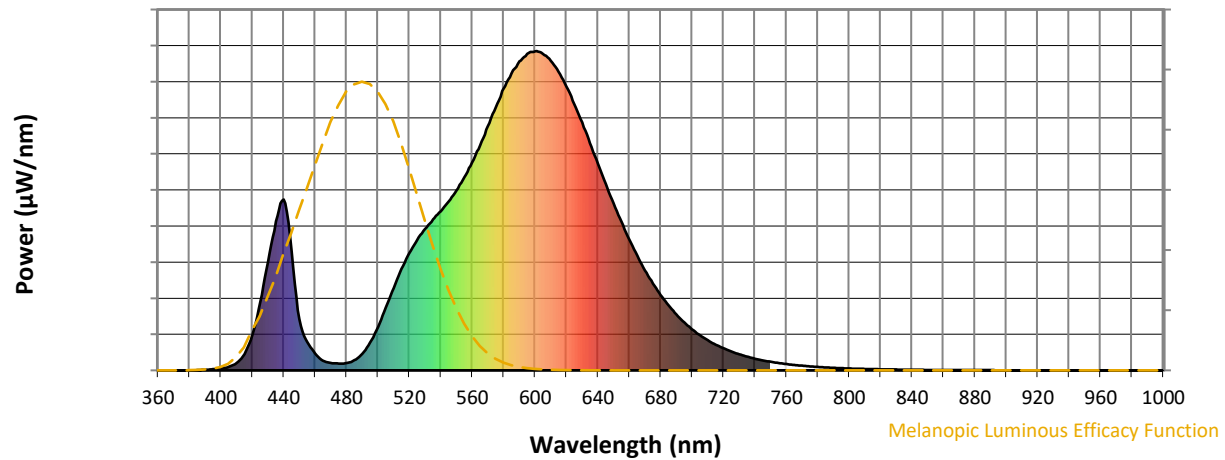
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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			

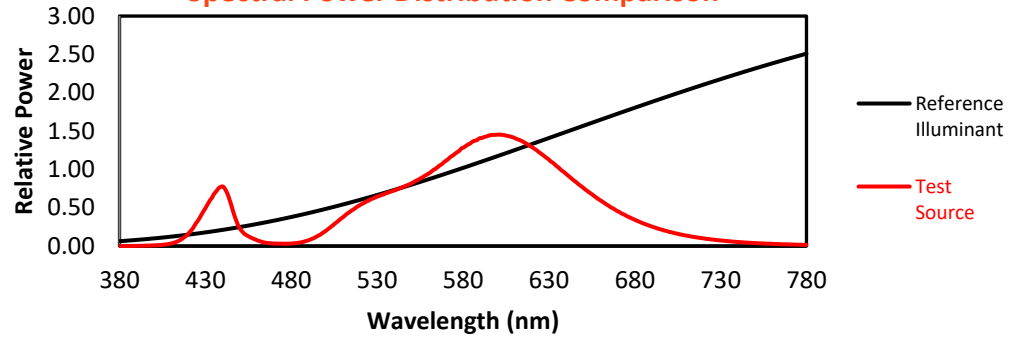
REPORT NUMBER: SP1-2407-184-3

TM-30-18

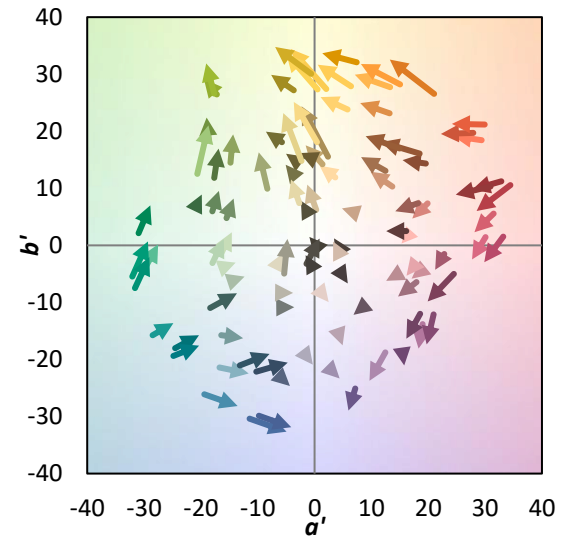
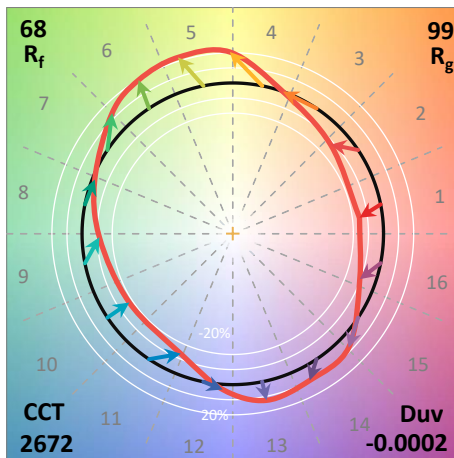
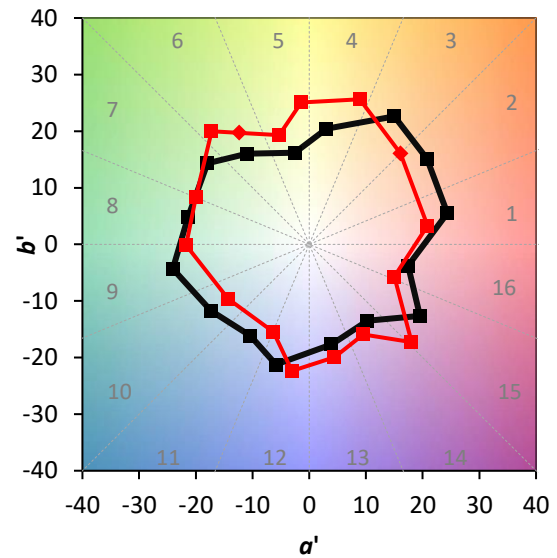
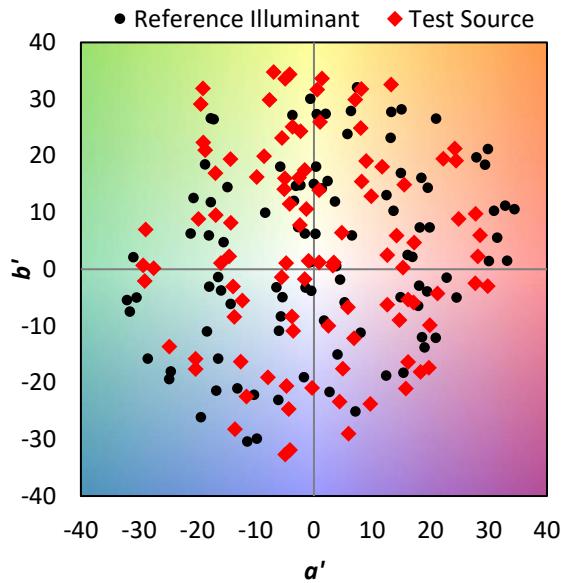
Summary

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

Spectral Power Distribution Comparison

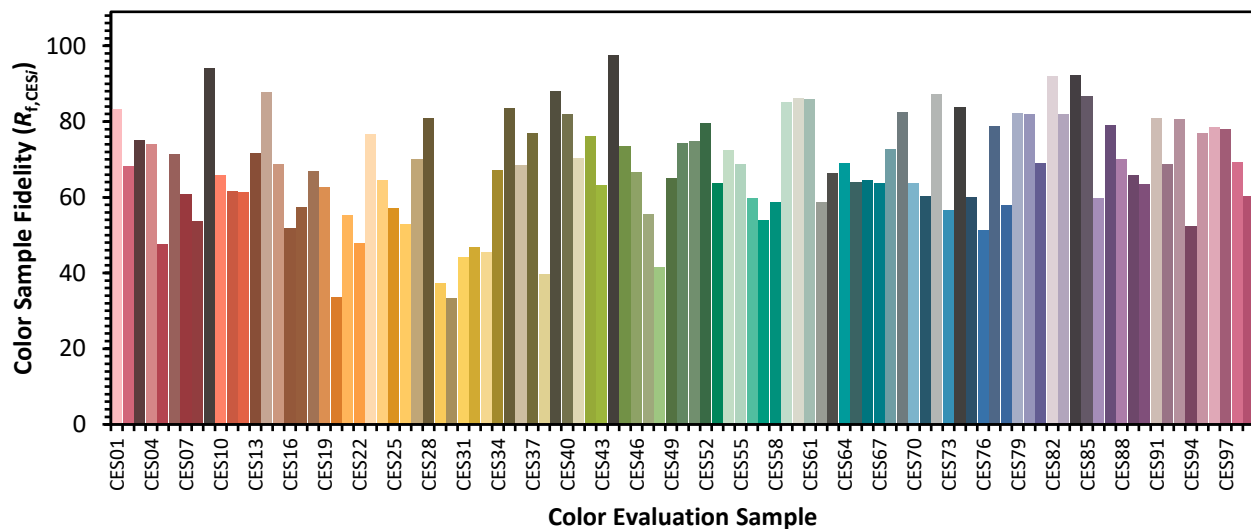


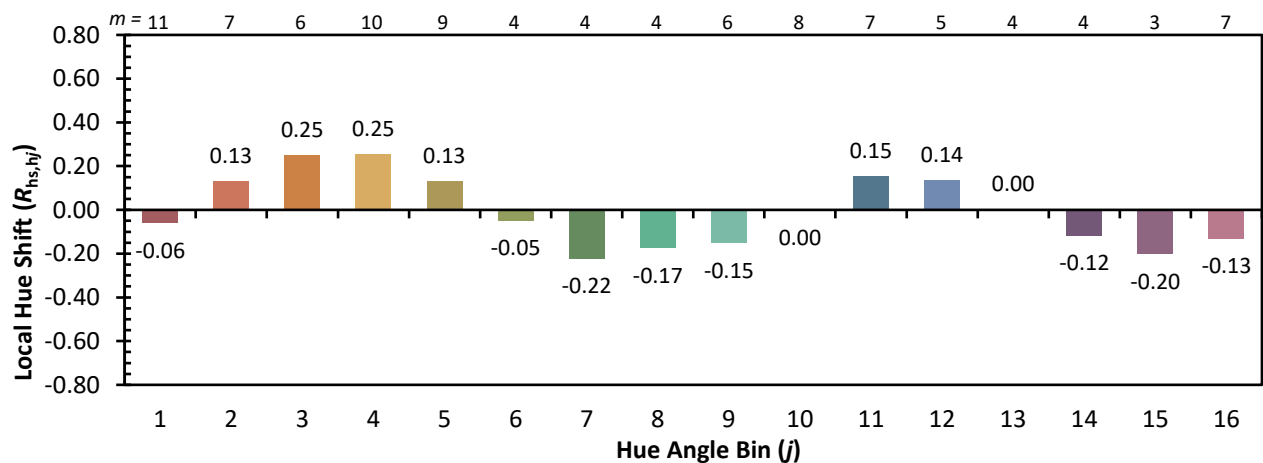
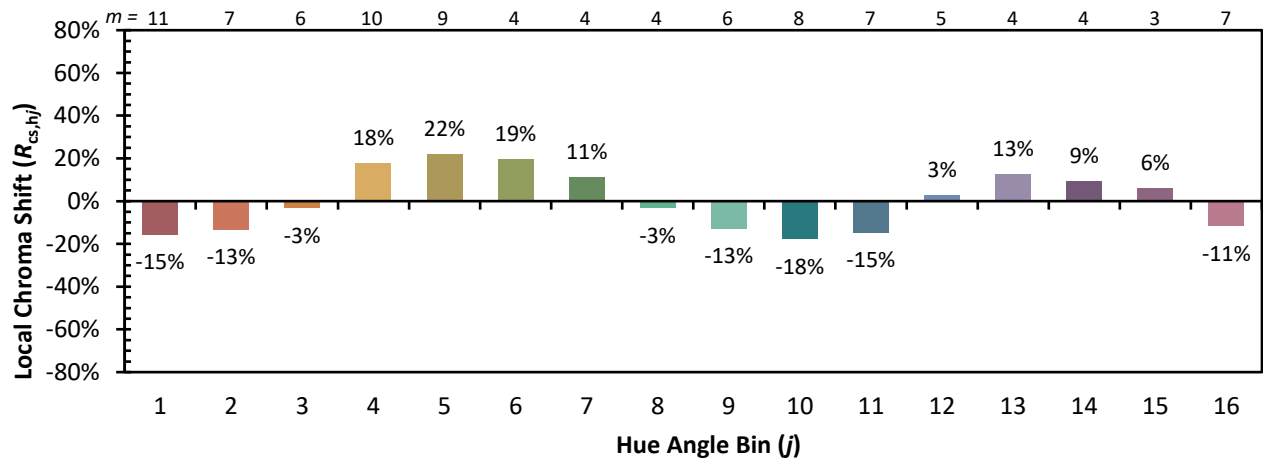
Color Vector Graphics



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)