

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: P1049910

Luminaire Tested: **GALN-SA5B-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049910
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12695.1 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

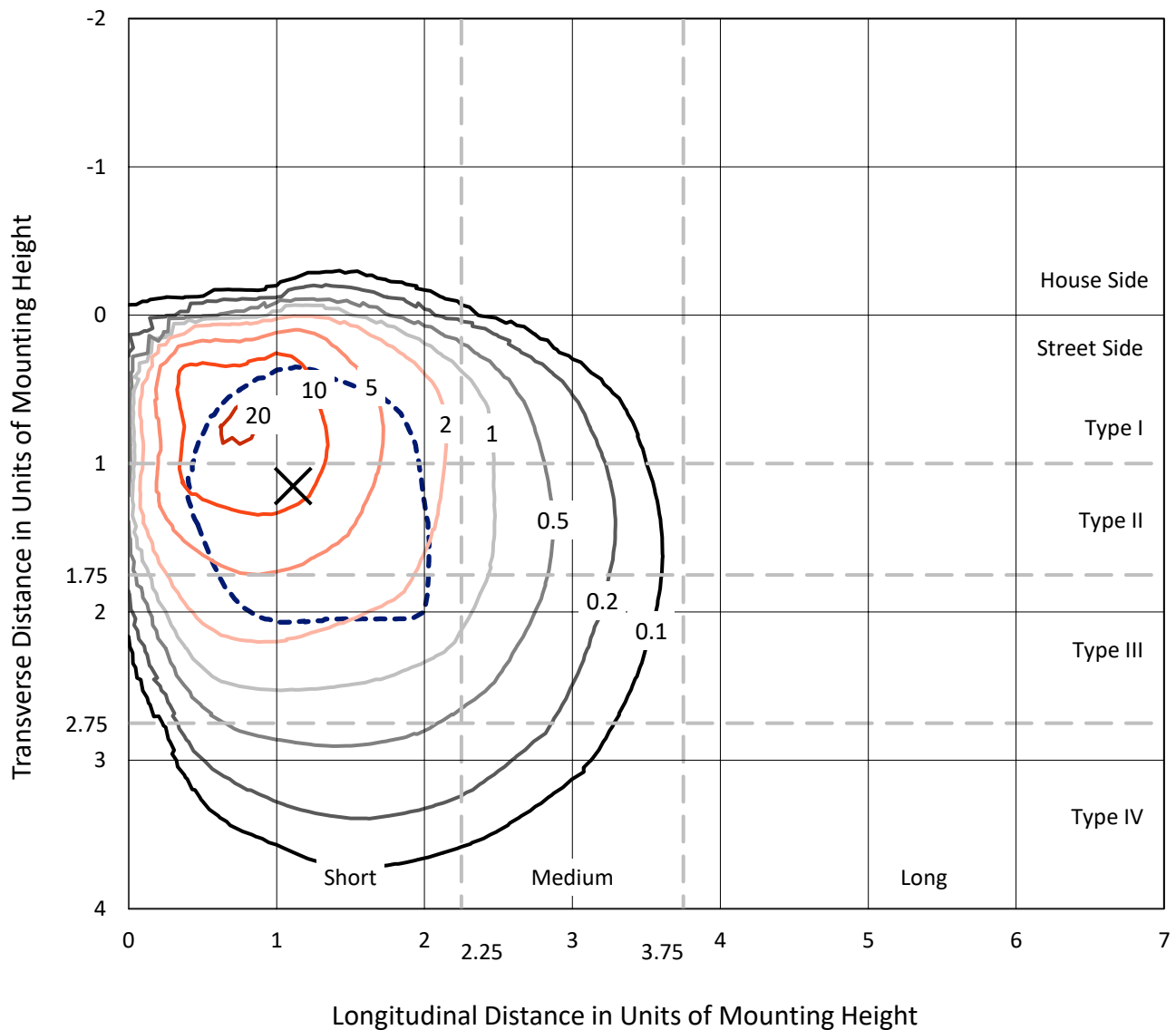
Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

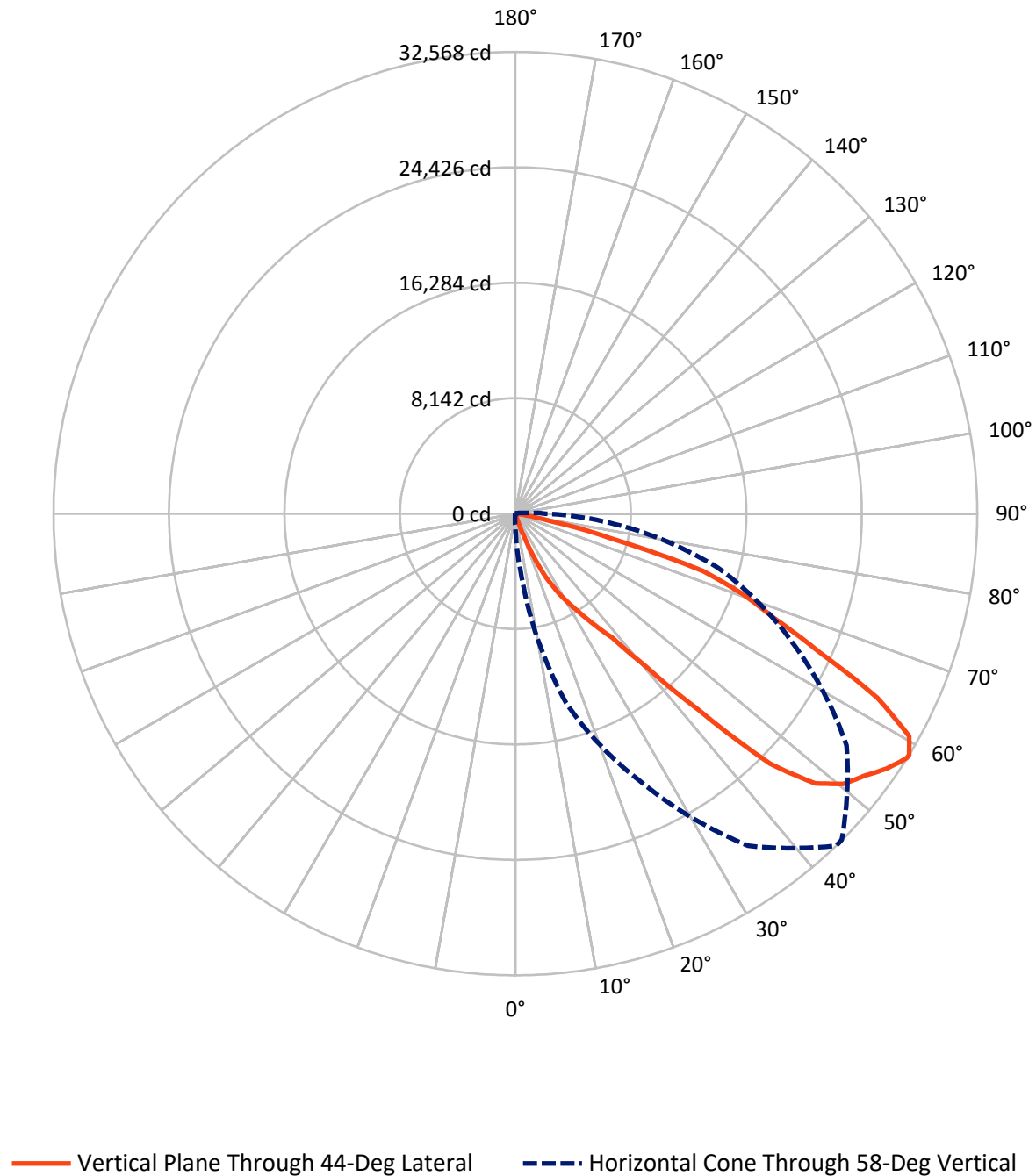
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.1 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	86.7	0.0	86.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12608.4	0.0	12608.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	12695.1	0.0	12695.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	27.8	0.2
20°-30°	300.7	2.4
30°-40°	889.4	7.0
40°-50°	2650.9	20.9
50°-60°	4206.4	33.1
60°-70°	3508.6	27.6
70°-80°	1082.1	8.5
80°-90°	24.0	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°	12695.1	100.0
0°-180°	12695.1	100.0



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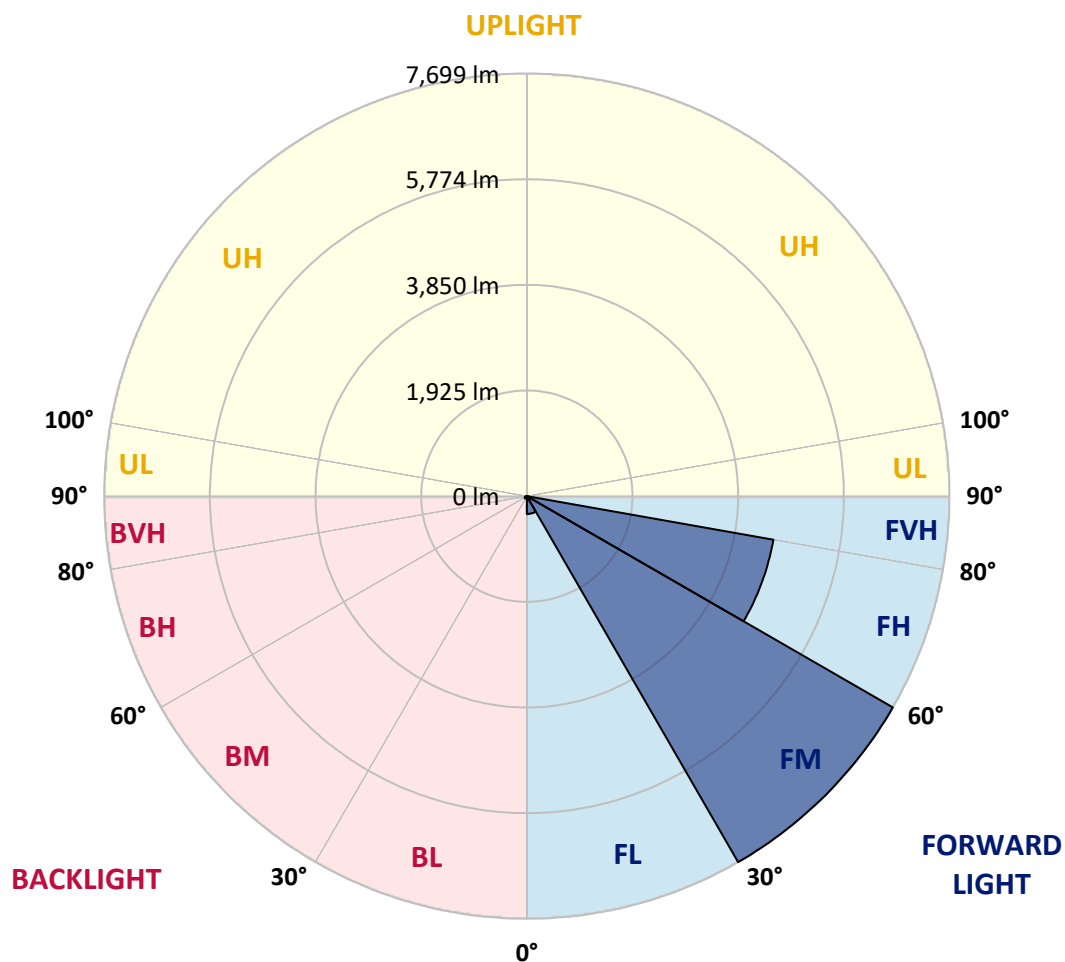
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.1	2.6			
FM	(30°-60°)	7699.3	60.6			
FH	(60°-80°)	4561.2	35.9			G2/5000
FVH	(80°-90°)	22.9	0.2			G1/100
BL	(0°-30°)	8.5	0.1	B0/110		
BM	(30°-60°)	47.4	0.4	B0/220		
BH	(60°-80°)	29.6	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
2.5°	71.9	71.9	69.0	65.2	61.4	57.5	56.6	54.7	53.7	52.7
5°	74.8	74.8	73.8	71.0	67.1	64.3	64.3	61.4	59.5	57.5
7.5°	76.7	77.7	79.6	78.6	76.7	73.8	73.8	71.9	69.0	64.3
10°	79.6	82.5	86.3	88.2	89.2	89.2	88.2	87.3	82.5	75.8
12.5°	82.5	88.2	97.8	107.4	113.2	120.8	119.9	118.0	105.5	91.1
15°	88.2	96.9	117.0	144.8	188.0	214.8	225.4	215.8	174.5	122.8
17.5°	94.9	109.3	169.7	303.0	496.8	588.8	644.5	599.4	397.0	233.0
20°	101.7	133.3	315.5	785.4	1288.9	1590.0	1673.5	1543.0	990.7	444.0
22.5°	113.2	187.0	639.7	1623.6	2777.3	3229.0	3314.3	2897.2	1871.0	876.5
25°	137.1	271.4	1102.9	2645.9	4144.8	4907.2	4871.8	4325.1	3035.3	1400.1
27.5°	171.7	395.1	1667.7	3759.3	5454.8	6127.1	6207.7	5531.6	4046.0	2059.0
30°	221.5	547.6	2273.8	4651.2	6504.9	7231.9	7245.3	6546.2	4950.4	2637.3
32.5°	269.5	691.4	2804.1	5513.3	7539.7	8336.6	8396.1	7535.9	5625.5	3239.5
35°	305.9	785.4	3341.2	6270.9	8583.1	9681.2	9677.3	8656.0	6425.3	3777.5
37.5°	308.8	879.4	3827.4	7045.8	9904.6	11134.1	11255.9	10130.0	7392.0	4443.1
40°	302.1	984.9	4443.1	8254.2	12285.8	14172.2	14279.6	12860.3	9331.1	5582.4
42.5°	309.8	1168.1	5442.4	10485.8	16239.8	18949.0	19156.2	17663.9	12895.8	7907.0
45°	350.0	1512.4	7535.9	14219.2	21875.9	25178.7	25109.7	22960.5	17043.5	11445.7
47.5°	483.3	2355.3	10639.2	17852.9	25477.9	28419.2	28478.7	25851.9	19464.0	14166.4
50°	743.2	3603.9	13246.8	19773.8	27026.7	29977.6	29922.0	26886.7	20383.7	15506.2
52.5°	966.7	4507.3	14554.8	20447.9	27225.2	30747.7	30743.8	27159.1	20526.6	15621.3
55°	1022.3	4575.4	14565.4	20484.4	27670.2	31755.6	31882.2	27829.4	20711.7	15118.7
57.5°	1000.2	4050.8	13957.4	20695.4	28462.4	32535.3	32542.0	28478.7	21181.6	14810.9
58°	981.1	3968.4	13834.6	20815.2	28598.5	32567.9	32551.6	28508.4	21564.2	14799.4
60°	873.7	3445.7	13356.1	21121.2	28396.2	31898.5	31746.0	27859.1	21507.6	14681.4
62.5°	686.6	2688.1	12885.2	20767.3	26226.9	28658.0	28721.3	24664.7	19606.9	13993.8
65°	546.6	2003.4	11903.2	18216.3	21596.8	23534.0	23769.9	20056.7	16365.4	11849.5
67.5°	435.4	1448.1	9985.2	14503.1	17089.5	19641.4	19813.1	16839.2	12679.0	9078.9
70°	353.9	979.1	6892.4	10606.6	14095.5	16964.8	16975.4	13989.0	9463.5	5948.7
72.5°	313.6	678.0	4001.0	7735.3	11429.4	13824.1	13545.0	11351.8	7273.1	3523.4
75°	271.4	449.8	1962.1	4728.9	6929.8	6976.8	7083.2	5265.9	3635.6	1675.4
77.5°	223.4	319.3	773.0	1291.8	2078.2	2660.3	2759.1	2090.6	1209.3	412.4
80°	153.4	151.5	208.1	396.1	594.6	745.1	695.3	538.0	316.5	158.2
82.5°	66.2	71.9	94.0	113.2	92.1	89.2	85.4	54.7	42.2	32.6
85°	21.1	19.2	20.1	20.1	16.3	12.5	12.5	5.8	0.0	0.0
87.5°	10.5	8.6	8.6	7.7	4.8	1.9	1.0	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
55.6	0°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
51.8	2.5°	50.8	50.8	48.9	47.0	46.0	44.1	43.2	42.2	41.2	40.3
55.6	5°	53.7	52.7	49.9	47.0	44.1	41.2	39.3	37.4	35.5	34.5
61.4	7.5°	58.5	56.6	50.8	46.0	42.2	38.4	36.4	33.6	31.6	28.8
68.1	10°	64.3	60.4	52.7	47.0	41.2	36.4	33.6	30.7	27.8	24.0
77.7	12.5°	71.9	65.2	55.6	46.0	39.3	33.6	30.7	26.9	24.0	21.1
90.1	15°	78.6	70.0	56.6	46.0	37.4	30.7	26.9	23.0	20.1	16.3
113.2	17.5°	88.2	73.8	55.6	43.2	34.5	26.9	23.0	20.1	15.3	9.6
167.8	20°	104.5	76.7	53.7	40.3	29.7	22.1	17.3	13.4	6.7	1.9
252.2	22.5°	130.4	84.4	51.8	36.4	25.9	17.3	11.5	4.8	0.0	0.0
383.6	25°	180.3	97.8	51.8	34.5	23.0	12.5	3.8	0.0	0.0	0.0
544.7	27.5°	239.8	116.0	51.8	29.7	18.2	6.7	0.0	0.0	0.0	0.0
742.3	30°	300.2	136.2	51.8	25.9	14.4	1.0	0.0	0.0	0.0	0.0
913.9	32.5°	357.7	153.4	52.7	22.1	9.6	0.0	0.0	0.0	0.0	0.0
1151.8	35°	416.2	156.3	51.8	19.2	5.8	0.0	0.0	0.0	0.0	0.0
1443.3	37.5°	491.0	150.6	48.9	17.3	2.9	0.0	0.0	0.0	0.0	0.0
1898.8	40°	604.2	153.4	46.0	16.3	1.0	0.0	0.0	0.0	0.0	0.0
2711.1	42.5°	813.2	165.9	42.2	16.3	0.0	0.0	0.0	0.0	0.0	0.0
4318.4	45°	1405.9	222.5	38.4	17.3	0.0	0.0	0.0	0.0	0.0	0.0
6482.9	47.5°	2325.6	399.9	37.4	17.3	0.0	0.0	0.0	0.0	0.0	0.0
7809.2	50°	2968.1	503.5	39.3	18.2	0.0	0.0	0.0	0.0	0.0	0.0
7975.1	52.5°	2963.3	561.0	41.2	19.2	3.8	0.0	0.0	0.0	0.0	0.0
7350.8	55°	2634.4	571.6	44.1	21.1	12.5	0.0	0.0	0.0	0.0	0.0
6317.0	57.5°	2201.9	521.7	50.8	25.9	23.0	0.0	0.0	0.0	0.0	0.0
6154.9	58°	2125.2	498.7	52.7	26.9	24.9	0.0	0.0	0.0	0.0	0.0
5338.8	60°	1741.6	406.6	67.1	33.6	33.6	0.0	0.0	0.0	0.0	0.0
4376.9	62.5°	1202.6	354.8	76.7	43.2	34.5	0.0	0.0	0.0	0.0	0.0
3227.1	65°	850.6	320.3	83.4	46.0	27.8	0.0	0.0	0.0	0.0	0.0
2293.0	67.5°	635.8	295.4	92.1	47.0	14.4	0.0	0.0	0.0	0.0	0.0
1438.5	70°	487.2	277.2	113.2	49.9	3.8	0.0	0.0	0.0	0.0	0.0
857.4	72.5°	397.0	256.1	137.1	51.8	0.0	0.0	0.0	0.0	0.0	0.0
514.0	75°	328.9	231.1	132.3	56.6	0.0	0.0	0.0	0.0	0.0	0.0
274.3	77.5°	218.7	179.3	120.8	56.6	0.0	0.0	0.0	0.0	0.0	0.0
97.8	80°	76.7	71.0	94.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0
20.1	82.5°	11.5	9.6	13.4	17.3	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
55.6	0°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
39.3	2.5°	39.3	39.3	38.4	39.3	39.3	41.2	46.0	52.7	60.4	63.3
33.6	5°	32.6	31.6	30.7	30.7	30.7	33.6	37.4	45.1	53.7	57.5
27.8	7.5°	26.9	25.9	24.9	24.0	24.0	25.9	30.7	39.3	48.0	51.8
23.0	10°	22.1	20.1	19.2	18.2	18.2	20.1	24.9	33.6	43.2	47.0
19.2	12.5°	18.2	15.3	13.4	12.5	11.5	14.4	19.2	26.9	37.4	42.2
14.4	15°	12.5	9.6	6.7	5.8	4.8	7.7	12.5	21.1	31.6	37.4
7.7	17.5°	6.7	2.9	1.0	0.0	0.0	1.9	5.8	15.3	25.9	30.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	19.2	24.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.5	16.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
0.0	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
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
55.6	0°	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
66.2	2.5°	68.1	67.1	65.2	63.3	63.3	63.3	66.2	69.0	71.9	71.9
59.5	5°	63.3	63.3	62.3	60.4	60.4	61.4	65.2	70.0	73.8	74.8
54.7	7.5°	58.5	60.4	58.5	57.5	58.5	59.5	63.3	69.0	74.8	76.7
50.8	10°	55.6	56.6	56.6	55.6	55.6	57.5	61.4	69.0	76.7	79.6
46.0	12.5°	51.8	53.7	52.7	52.7	52.7	54.7	59.5	68.1	78.6	82.5
41.2	15°	48.0	50.8	50.8	49.9	49.9	50.8	57.5	67.1	81.5	88.2
35.5	17.5°	44.1	47.0	48.0	46.0	46.0	48.0	54.7	67.1	83.4	94.9
28.8	20°	36.4	41.2	44.1	41.2	41.2	43.2	49.9	63.3	84.4	101.7
21.1	22.5°	28.8	33.6	37.4	36.4	36.4	37.4	46.0	60.4	85.4	113.2
12.5	25°	21.1	25.9	28.8	30.7	30.7	33.6	42.2	58.5	89.2	137.1
5.8	27.5°	12.5	18.2	22.1	24.0	24.9	28.8	39.3	56.6	95.9	171.7
0.0	30°	5.8	10.5	15.3	19.2	19.2	25.9	36.4	54.7	104.5	221.5
0.0	32.5°	0.0	4.8	7.7	13.4	14.4	21.1	33.6	52.7	117.0	269.5
0.0	35°	0.0	0.0	3.8	10.5	10.5	17.3	30.7	50.8	136.2	305.9
0.0	37.5°	0.0	0.0	0.0	7.7	8.6	15.3	29.7	49.9	140.0	308.8
0.0	40°	0.0	0.0	0.0	5.8	6.7	14.4	29.7	50.8	126.6	302.1
0.0	42.5°	0.0	0.0	0.0	3.8	4.8	14.4	29.7	52.7	114.1	309.8
0.0	45°	0.0	0.0	0.0	2.9	3.8	15.3	28.8	51.8	107.4	350.0
0.0	47.5°	0.0	0.0	0.0	3.8	5.8	15.3	27.8	50.8	108.4	483.3
0.0	50°	0.0	0.0	0.0	4.8	6.7	15.3	28.8	48.9	118.9	743.2
0.0	52.5°	0.0	0.0	0.0	3.8	5.8	17.3	31.6	48.0	129.5	966.7
0.0	55°	0.0	0.0	0.0	1.0	2.9	22.1	34.5	48.0	145.8	1022.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	24.9	39.3	50.8	172.6	1000.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	24.9	40.3	50.8	174.5	981.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	24.9	44.1	56.6	188.0	873.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.1	52.7	71.0	195.6	686.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.3	62.3	77.7	201.4	546.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.3	64.3	78.6	204.3	435.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.3	63.3	84.4	213.9	353.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.2	57.5	93.0	213.9	313.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.1	53.7	104.5	194.7	271.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.2	52.7	121.8	173.6	223.4
0.0	80°	1.9	2.9	2.9	1.9	1.9	16.3	51.8	123.7	147.7	153.4
1.0	82.5°	5.8	7.7	6.7	4.8	4.8	14.4	46.0	103.6	76.7	66.2
5.8	85°	10.5	12.5	12.5	10.5	10.5	13.4	28.8	37.4	25.9	21.1
10.5	87.5°	14.4	16.3	16.3	14.4	14.4	13.4	12.5	11.5	10.5	10.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

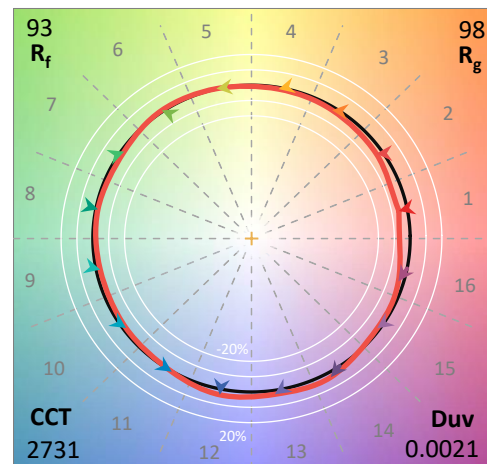
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

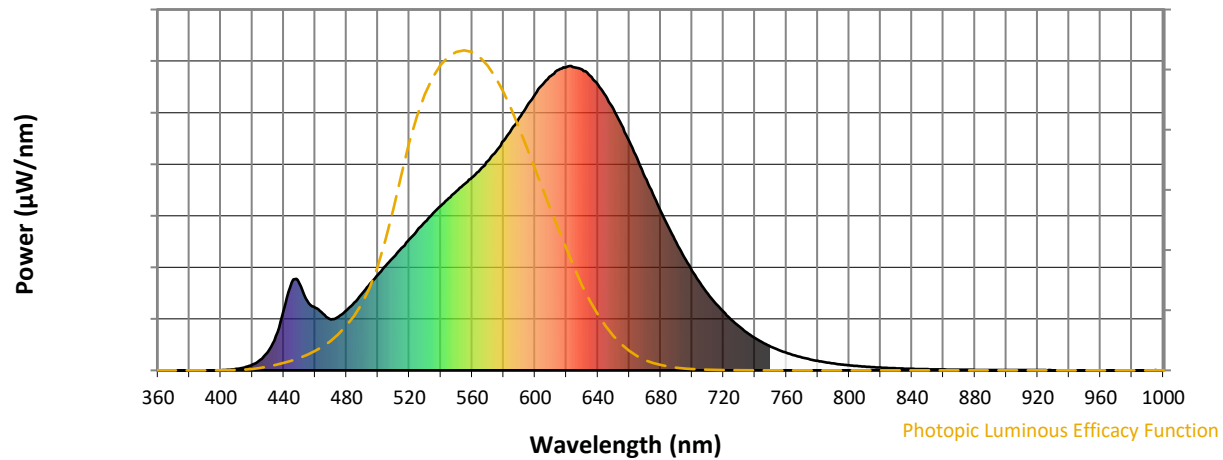
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

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: SP1-2407-184-13

Photopic Flux vs. Wavelength

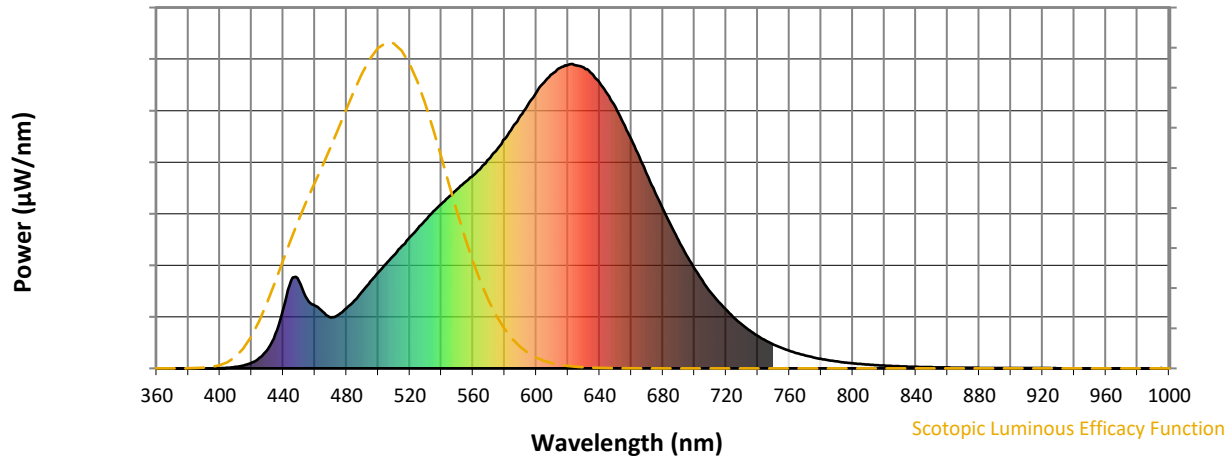


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



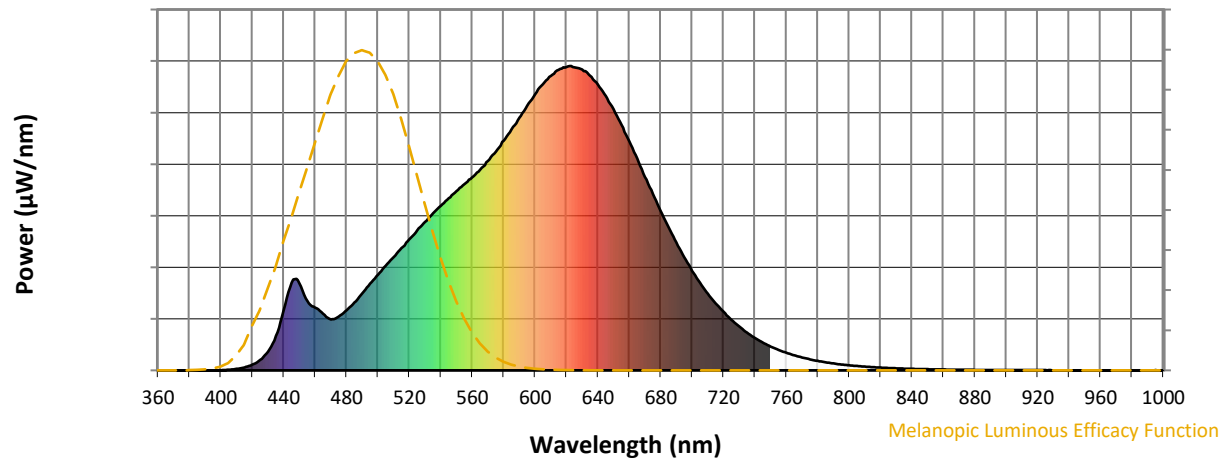
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

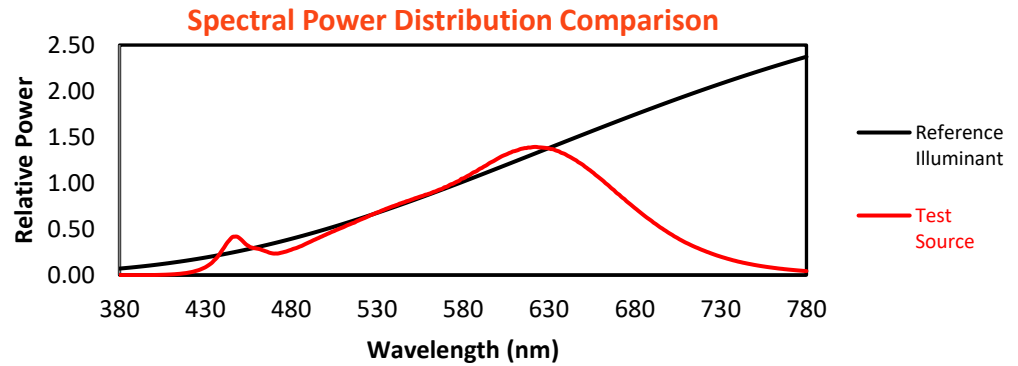
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

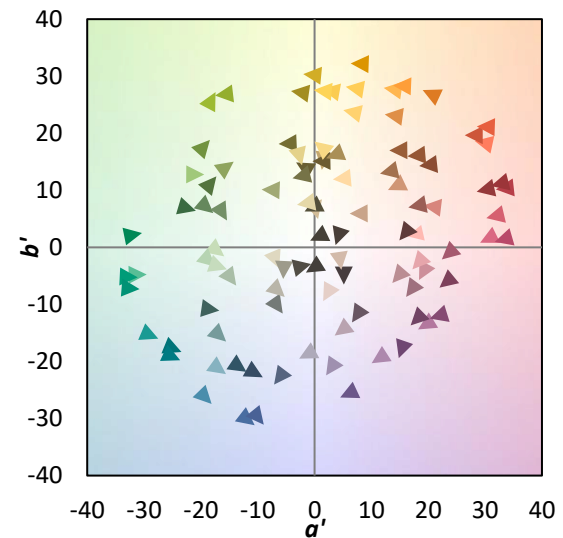
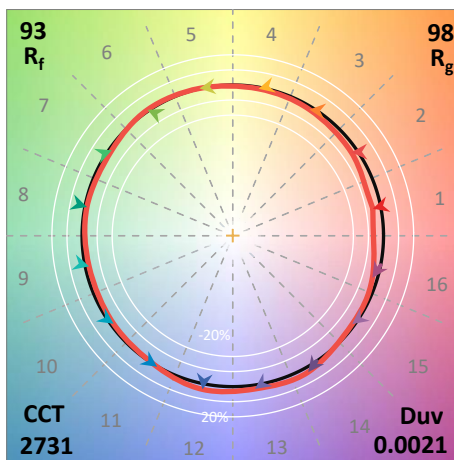
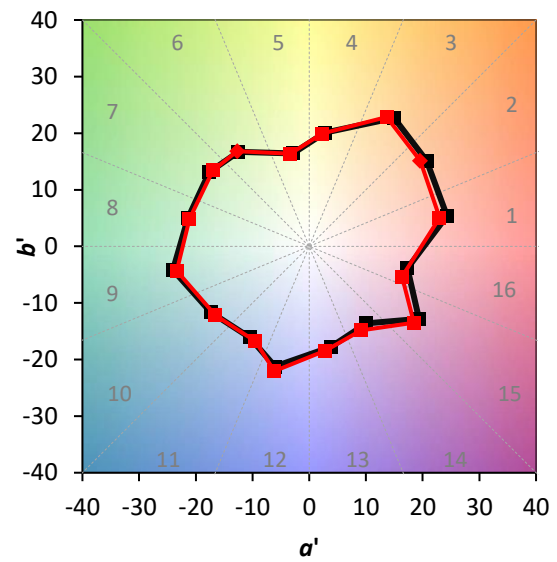
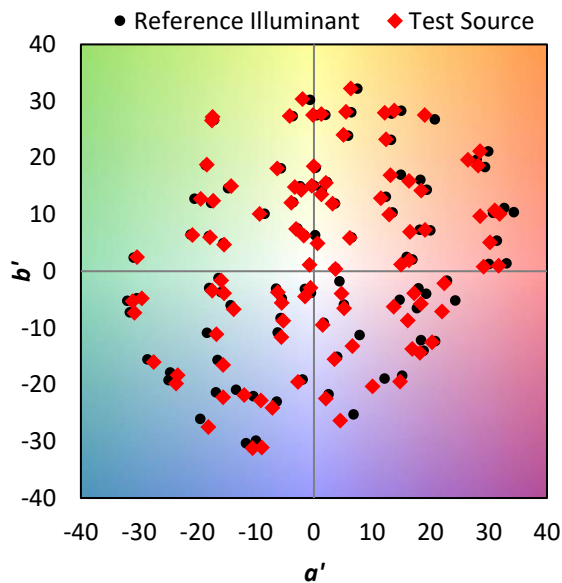
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

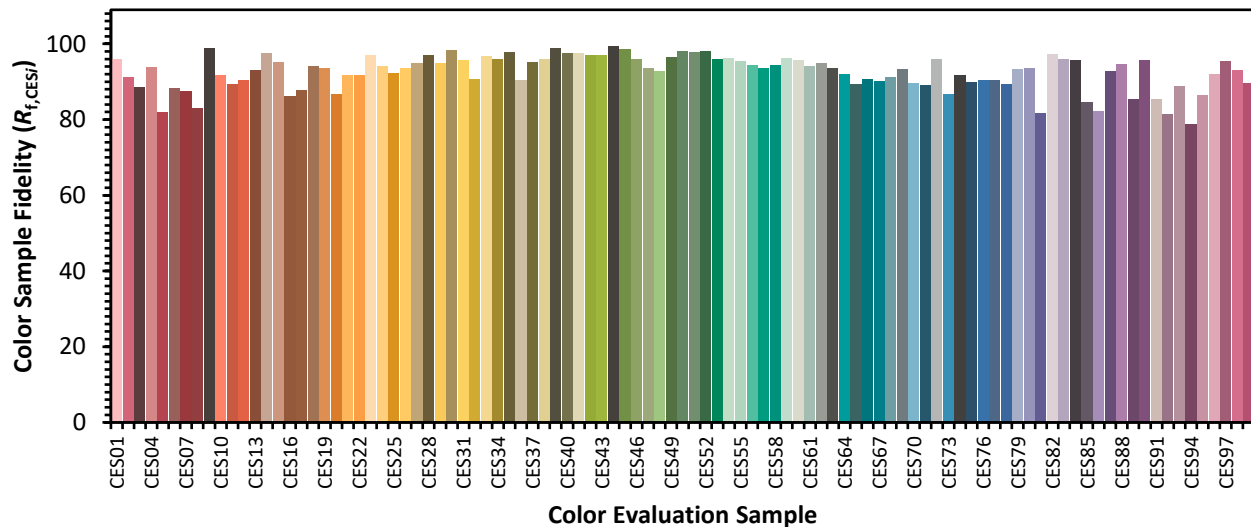


Color Vector Graphics

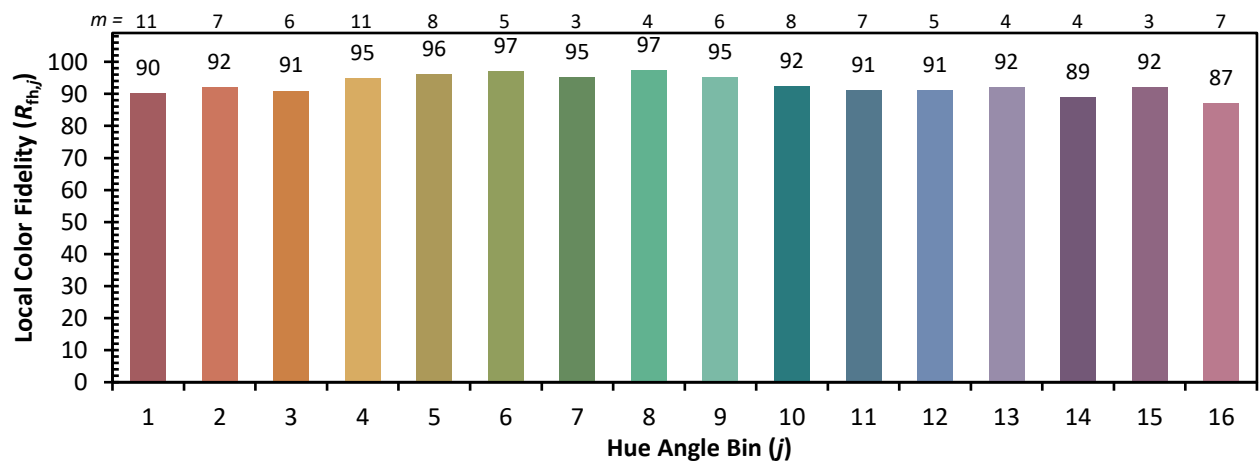
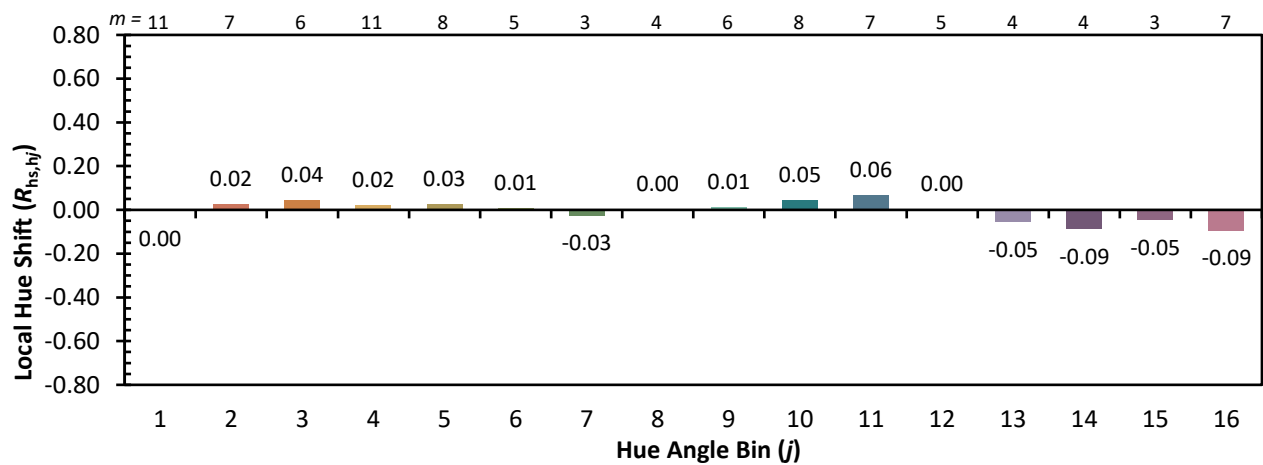
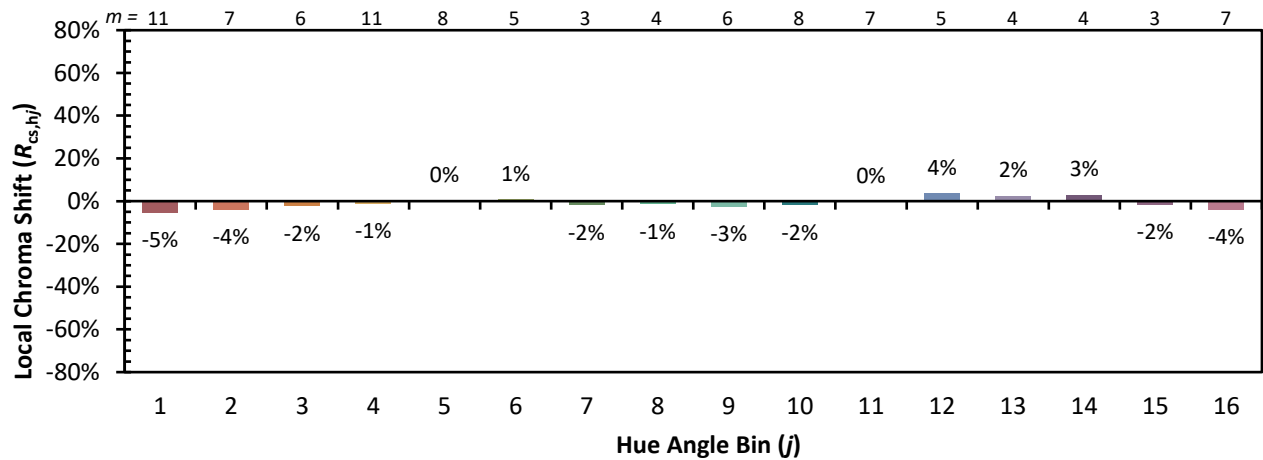


Individual Sample Fidelity Index ($R_{f,i}$)

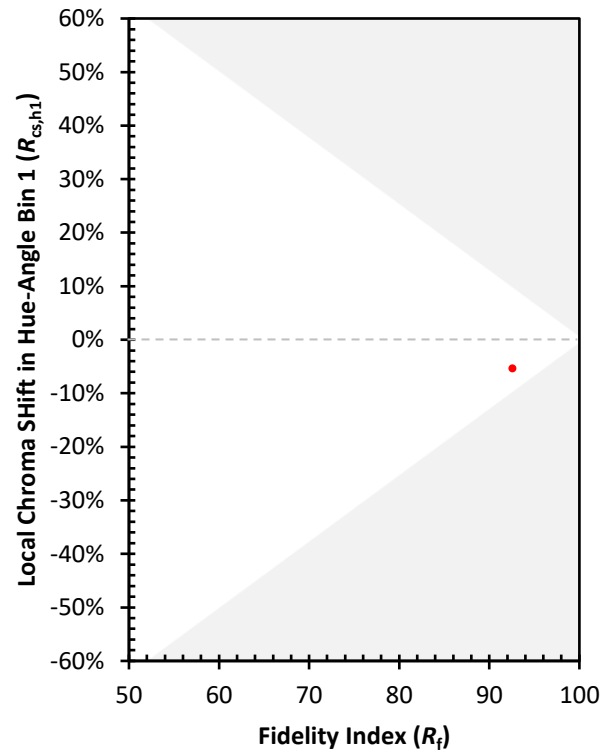
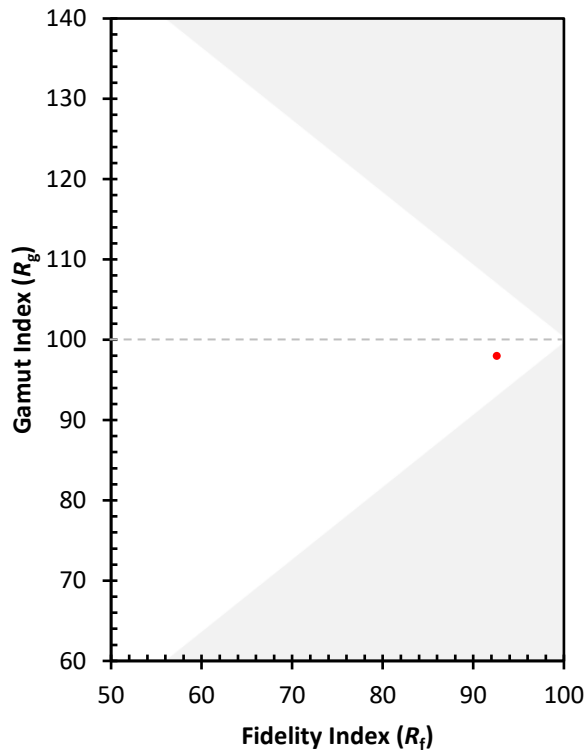
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)