

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: P1049727

Luminaire Tested: **GALN-SA4C-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049727
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 4xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17637.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

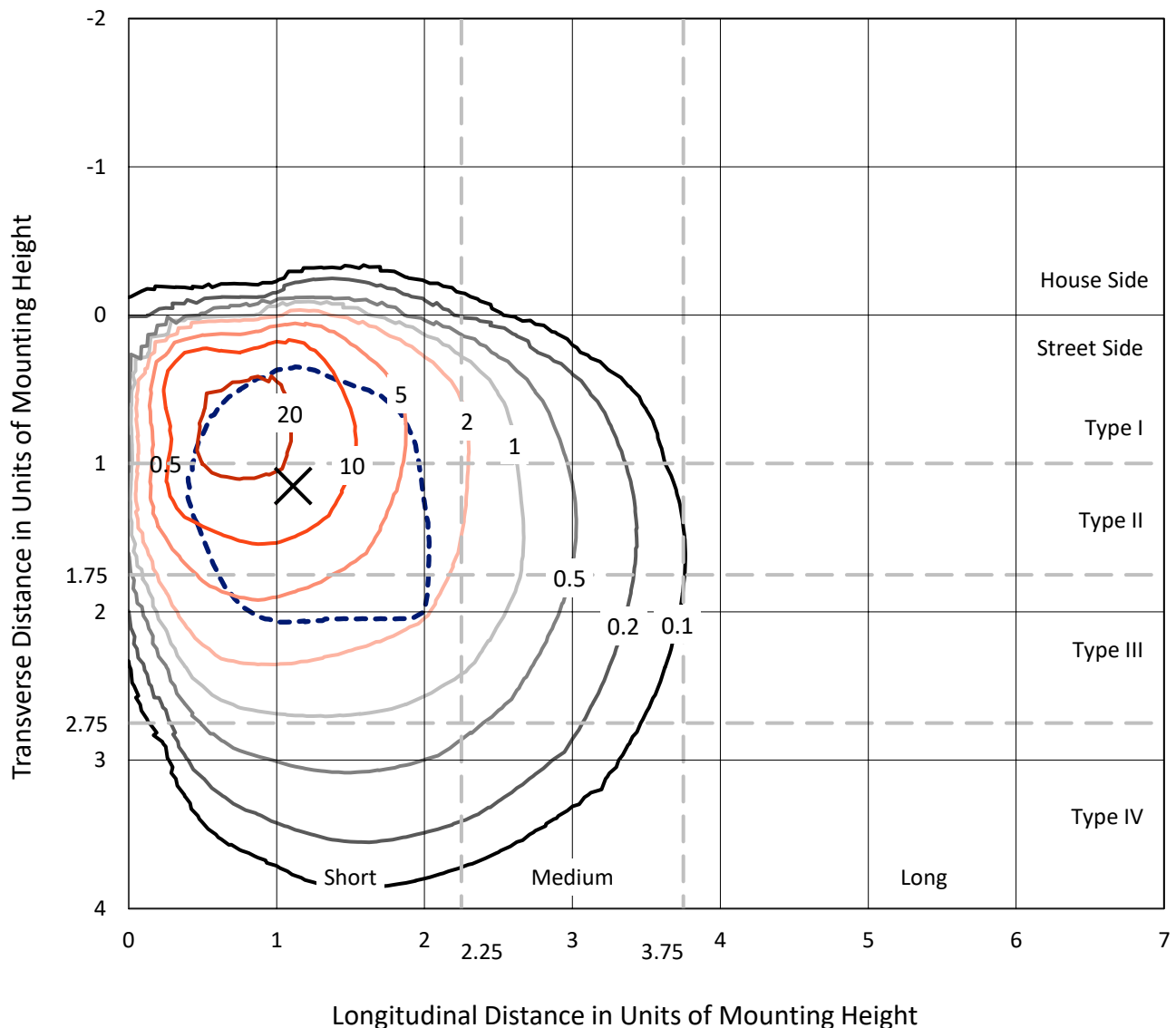
Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

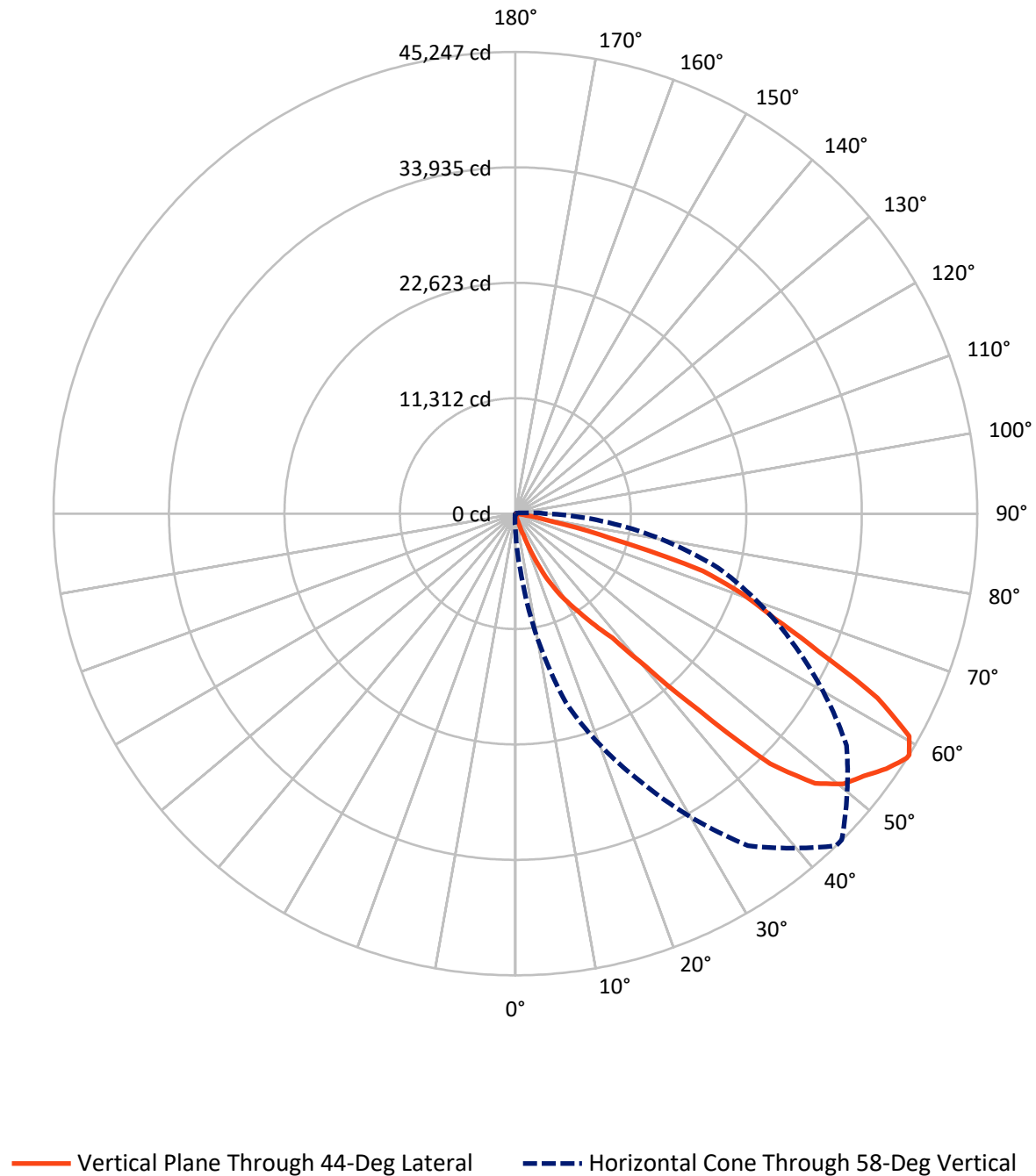
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.7 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	120.4	0.0	120.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17516.9	0.0	17516.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	17637.4	0.0	17637.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.0
10°-20°	38.7	0.2
20°-30°	417.8	2.4
30°-40°	1235.7	7.0
40°-50°	3683.0	20.9
50°-60°	5844.0	33.1
60°-70°	4874.6	27.6
70°-80°	1503.4	8.5
80°-90°	33.4	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°	17637.4	100.0
0°-180°	17637.4	100.0

Coefficient of Utilization



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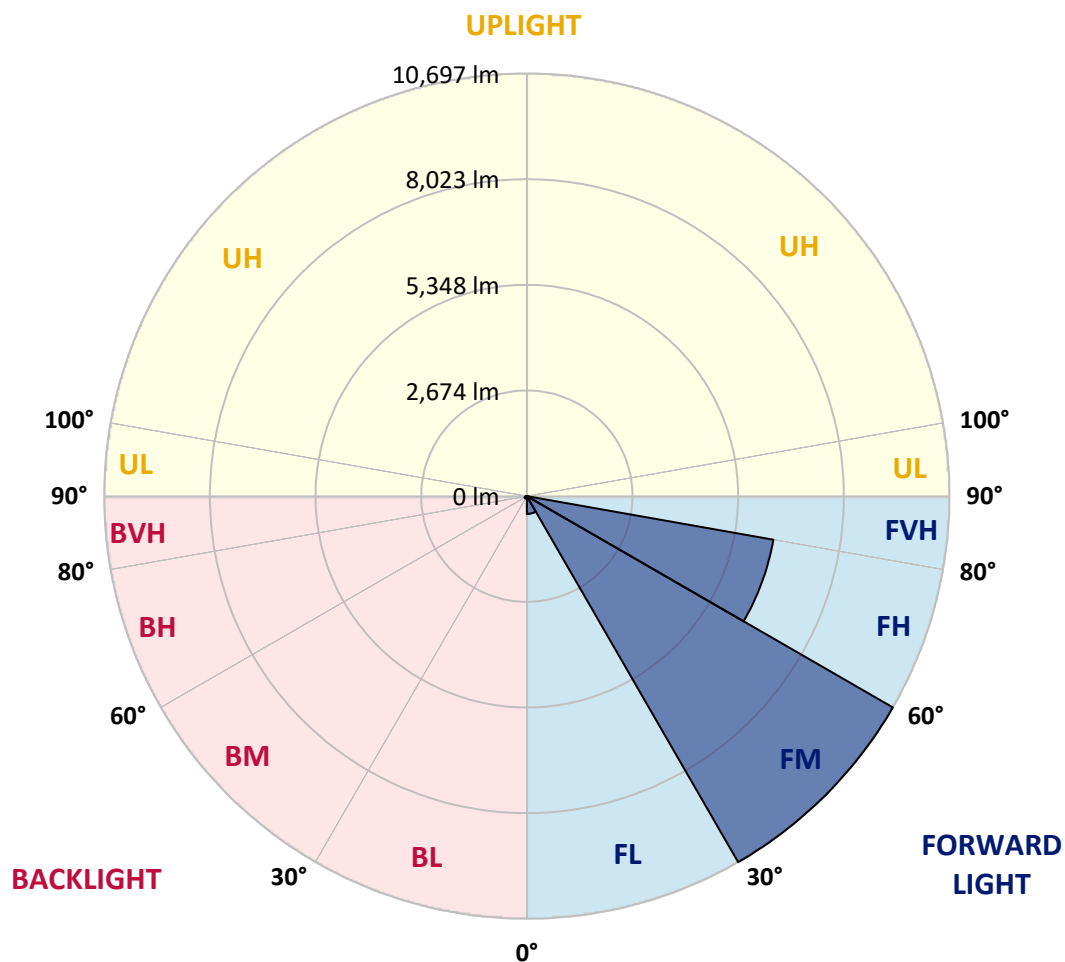
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.6	2.6			
FM	(30°-60°)	10696.7	60.6			
FH	(60°-80°)	6336.8	35.9			G3/7500
FVH	(80°-90°)	31.8	0.2			G1/100
BL	(0°-30°)	11.8	0.1	B0/110		
BM	(30°-60°)	65.9	0.4	B0/220		
BH	(60°-80°)	41.1	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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°
0°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2.5°	99.9	99.9	95.9	90.6	85.3	79.9	78.6	75.9	74.6	73.3
5°	103.9	103.9	102.6	98.6	93.3	89.3	89.3	85.3	82.6	79.9
7.5°	106.6	107.9	110.6	109.3	106.6	102.6	102.6	99.9	95.9	89.3
10°	110.6	114.6	119.9	122.6	123.9	123.9	122.6	121.2	114.6	105.3
12.5°	114.6	122.6	135.9	149.2	157.2	167.9	166.5	163.9	146.6	126.6
15°	122.6	134.6	162.5	201.2	261.1	298.4	313.1	299.8	242.5	170.5
17.5°	131.9	151.9	235.8	421.0	690.2	818.1	895.3	832.7	551.6	323.8
20°	141.2	185.2	438.3	1091.2	1790.7	2209.0	2325.0	2143.8	1376.3	616.9
22.5°	157.2	259.8	888.7	2255.7	3858.5	4486.0	4604.6	4025.0	2599.4	1217.8
25°	190.5	377.1	1532.2	3676.0	5758.4	6817.6	6768.3	6008.9	4216.9	1945.2
27.5°	238.5	548.9	2317.0	5222.8	7578.4	8512.4	8624.3	7685.0	5621.2	2860.6
30°	307.8	760.8	3159.0	6461.9	9037.3	10047.3	10065.9	9094.6	6877.6	3664.0
32.5°	374.4	960.6	3895.8	7659.7	10475.0	11582.1	11664.7	10469.6	7815.6	4500.7
35°	425.0	1091.2	4641.9	8712.3	11924.6	13450.1	13444.8	12025.8	8926.8	5248.1
37.5°	429.0	1221.8	5317.4	9788.8	13760.5	15468.6	15637.8	14073.6	10269.8	6172.8
40°	419.7	1368.3	6172.8	11467.6	17068.8	19689.5	19838.7	17866.8	12963.8	7755.6
42.5°	430.3	1622.8	7561.1	14567.9	22562.1	26325.9	26613.7	24540.6	17916.1	10985.2
45°	486.3	2101.1	10469.6	19754.8	30392.3	34980.9	34885.0	31899.2	23678.6	15901.6
47.5°	671.5	3272.3	14781.1	24803.1	35396.6	39482.9	39565.5	35916.2	27041.4	19681.5
50°	1032.6	5007.0	18403.8	27471.8	37548.3	41648.0	41570.7	37353.8	28319.1	21542.8
52.5°	1343.0	6262.1	20221.1	28408.4	37824.1	42717.9	42712.5	37732.2	28517.7	21702.7
55°	1420.3	6356.7	20235.8	28459.0	38442.4	44118.2	44294.0	38663.5	28774.8	21004.5
57.5°	1389.6	5627.9	19391.1	28752.2	39542.9	45201.4	45210.7	39565.5	29427.7	20576.8
58°	1363.0	5513.3	19220.5	28918.7	39732.1	45246.7	45224.0	39606.8	29959.3	20560.9
60°	1213.8	4787.1	18555.7	29343.7	39450.9	44316.7	44104.9	38704.8	29880.7	20397.0
62.5°	954.0	3734.6	17901.5	28852.1	36437.2	39814.7	39902.6	34266.8	27239.9	19441.7
65°	759.4	2783.3	16537.2	25308.0	30004.6	32695.9	33023.7	27864.8	22736.6	16462.5
67.5°	604.9	2011.9	13872.5	20149.2	23742.5	27287.9	27526.4	23394.8	17615.0	12613.4
70°	491.6	1360.3	9575.6	14735.8	19582.9	23569.3	23584.0	19435.0	13147.7	8264.6
72.5°	435.7	942.0	5558.6	10746.8	15879.0	19205.9	18818.1	15771.1	10104.6	4895.1
75°	377.1	624.9	2726.0	6569.8	9627.6	9692.9	9840.8	7315.9	5050.9	2327.6
77.5°	310.4	443.7	1073.9	1794.7	2887.2	3695.9	3833.2	2904.5	1680.1	572.9
80°	213.2	210.5	289.1	550.3	826.1	1035.2	966.0	747.4	439.7	219.8
82.5°	91.9	99.9	130.6	157.2	127.9	123.9	118.6	75.9	58.6	45.3
85°	29.3	26.6	28.0	28.0	22.6	17.3	17.3	8.0	0.0	0.0
87.5°	14.7	12.0	12.0	10.7	6.7	2.7	1.3	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°
77.3	0°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
71.9	2.5°	70.6	70.6	67.9	65.3	64.0	61.3	60.0	58.6	57.3	56.0
77.3	5°	74.6	73.3	69.3	65.3	61.3	57.3	54.6	52.0	49.3	48.0
85.3	7.5°	81.3	78.6	70.6	64.0	58.6	53.3	50.6	46.6	44.0	40.0
94.6	10°	89.3	83.9	73.3	65.3	57.3	50.6	46.6	42.6	38.6	33.3
107.9	12.5°	99.9	90.6	77.3	64.0	54.6	46.6	42.6	37.3	33.3	29.3
125.2	15°	109.3	97.3	78.6	64.0	52.0	42.6	37.3	32.0	28.0	22.6
157.2	17.5°	122.6	102.6	77.3	60.0	48.0	37.3	32.0	28.0	21.3	13.3
233.2	20°	145.2	106.6	74.6	56.0	41.3	30.6	24.0	18.7	9.3	2.7
350.4	22.5°	181.2	117.2	71.9	50.6	36.0	24.0	16.0	6.7	0.0	0.0
532.9	25°	250.5	135.9	71.9	48.0	32.0	17.3	5.3	0.0	0.0	0.0
756.8	27.5°	333.1	161.2	71.9	41.3	25.3	9.3	0.0	0.0	0.0	0.0
1031.2	30°	417.0	189.2	71.9	36.0	20.0	1.3	0.0	0.0	0.0	0.0
1269.7	32.5°	497.0	213.2	73.3	30.6	13.3	0.0	0.0	0.0	0.0	0.0
1600.2	35°	578.2	217.2	71.9	26.6	8.0	0.0	0.0	0.0	0.0	0.0
2005.2	37.5°	682.2	209.2	67.9	24.0	4.0	0.0	0.0	0.0	0.0	0.0
2638.1	40°	839.4	213.2	64.0	22.6	1.3	0.0	0.0	0.0	0.0	0.0
3766.6	42.5°	1129.8	230.5	58.6	22.6	0.0	0.0	0.0	0.0	0.0	0.0
5999.6	45°	1953.2	309.1	53.3	24.0	0.0	0.0	0.0	0.0	0.0	0.0
9006.7	47.5°	3231.0	555.6	52.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0
10849.3	50°	4123.6	699.5	54.6	25.3	0.0	0.0	0.0	0.0	0.0	0.0
11079.8	52.5°	4117.0	779.4	57.3	26.6	5.3	0.0	0.0	0.0	0.0	0.0
10212.5	55°	3660.0	794.1	61.3	29.3	17.3	0.0	0.0	0.0	0.0	0.0
8776.2	57.5°	3059.1	724.8	70.6	36.0	32.0	0.0	0.0	0.0	0.0	0.0
8551.0	58°	2952.5	692.8	73.3	37.3	34.6	0.0	0.0	0.0	0.0	0.0
7417.2	60°	2419.6	564.9	93.3	46.6	46.6	0.0	0.0	0.0	0.0	0.0
6080.9	62.5°	1670.8	493.0	106.6	60.0	48.0	0.0	0.0	0.0	0.0	0.0
4483.4	65°	1181.8	445.0	115.9	64.0	38.6	0.0	0.0	0.0	0.0	0.0
3185.7	67.5°	883.3	410.4	127.9	65.3	20.0	0.0	0.0	0.0	0.0	0.0
1998.5	70°	676.8	385.0	157.2	69.3	5.3	0.0	0.0	0.0	0.0	0.0
1191.1	72.5°	551.6	355.7	190.5	71.9	0.0	0.0	0.0	0.0	0.0	0.0
714.1	75°	457.0	321.1	183.9	78.6	0.0	0.0	0.0	0.0	0.0	0.0
381.1	77.5°	303.8	249.1	167.9	78.6	0.0	0.0	0.0	0.0	0.0	0.0
135.9	80°	106.6	98.6	130.6	69.3	0.0	0.0	0.0	0.0	0.0	0.0
28.0	82.5°	16.0	13.3	18.7	24.0	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	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°
77.3	0°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
54.6	2.5°	54.6	54.6	53.3	54.6	54.6	57.3	64.0	73.3	83.9	87.9
46.6	5°	45.3	44.0	42.6	42.6	42.6	46.6	52.0	62.6	74.6	79.9
38.6	7.5°	37.3	36.0	34.6	33.3	33.3	36.0	42.6	54.6	66.6	71.9
32.0	10°	30.6	28.0	26.6	25.3	25.3	28.0	34.6	46.6	60.0	65.3
26.6	12.5°	25.3	21.3	18.7	17.3	16.0	20.0	26.6	37.3	52.0	58.6
20.0	15°	17.3	13.3	9.3	8.0	6.7	10.7	17.3	29.3	44.0	52.0
10.7	17.5°	9.3	4.0	1.3	0.0	0.0	2.7	8.0	21.3	36.0	42.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	26.6	33.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	16.0	22.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	12.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	4.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.7
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°
77.3	0°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
91.9	2.5°	94.6	93.3	90.6	87.9	87.9	87.9	91.9	95.9	99.9	99.9
82.6	5°	87.9	87.9	86.6	83.9	83.9	85.3	90.6	97.3	102.6	103.9
75.9	7.5°	81.3	83.9	81.3	79.9	81.3	82.6	87.9	95.9	103.9	106.6
70.6	10°	77.3	78.6	78.6	77.3	77.3	79.9	85.3	95.9	106.6	110.6
64.0	12.5°	71.9	74.6	73.3	73.3	73.3	75.9	82.6	94.6	109.3	114.6
57.3	15°	66.6	70.6	70.6	69.3	69.3	70.6	79.9	93.3	113.2	122.6
49.3	17.5°	61.3	65.3	66.6	64.0	64.0	66.6	75.9	93.3	115.9	131.9
40.0	20°	50.6	57.3	61.3	57.3	57.3	60.0	69.3	87.9	117.2	141.2
29.3	22.5°	40.0	46.6	52.0	50.6	50.6	52.0	64.0	83.9	118.6	157.2
17.3	25°	29.3	36.0	40.0	42.6	42.6	46.6	58.6	81.3	123.9	190.5
8.0	27.5°	17.3	25.3	30.6	33.3	34.6	40.0	54.6	78.6	133.2	238.5
0.0	30°	8.0	14.7	21.3	26.6	26.6	36.0	50.6	75.9	145.2	307.8
0.0	32.5°	0.0	6.7	10.7	18.7	20.0	29.3	46.6	73.3	162.5	374.4
0.0	35°	0.0	0.0	5.3	14.7	14.7	24.0	42.6	70.6	189.2	425.0
0.0	37.5°	0.0	0.0	0.0	10.7	12.0	21.3	41.3	69.3	194.5	429.0
0.0	40°	0.0	0.0	0.0	8.0	9.3	20.0	41.3	70.6	175.9	419.7
0.0	42.5°	0.0	0.0	0.0	5.3	6.7	20.0	41.3	73.3	158.5	430.3
0.0	45°	0.0	0.0	0.0	4.0	5.3	21.3	40.0	71.9	149.2	486.3
0.0	47.5°	0.0	0.0	0.0	5.3	8.0	21.3	38.6	70.6	150.6	671.5
0.0	50°	0.0	0.0	0.0	6.7	9.3	21.3	40.0	67.9	165.2	1032.6
0.0	52.5°	0.0	0.0	0.0	5.3	8.0	24.0	44.0	66.6	179.9	1343.0
0.0	55°	0.0	0.0	0.0	1.3	4.0	30.6	48.0	66.6	202.5	1420.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	34.6	54.6	70.6	239.8	1389.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	34.6	56.0	70.6	242.5	1363.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	34.6	61.3	78.6	261.1	1213.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.3	73.3	98.6	271.8	954.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.0	86.6	107.9	279.8	759.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	22.6	89.3	109.3	283.8	604.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.0	87.9	117.2	297.1	491.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	26.6	79.9	129.2	297.1	435.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	28.0	74.6	145.2	270.5	377.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	26.6	73.3	169.2	241.2	310.4
0.0	80°	2.7	4.0	4.0	2.7	2.7	22.6	71.9	171.9	205.2	213.2
1.3	82.5°	8.0	10.7	9.3	6.7	6.7	20.0	64.0	143.9	106.6	91.9
8.0	85°	14.7	17.3	17.3	14.7	14.7	18.7	40.0	52.0	36.0	29.3
14.7	87.5°	20.0	22.6	22.6	20.0	20.0	18.7	17.3	16.0	14.7	14.7
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: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

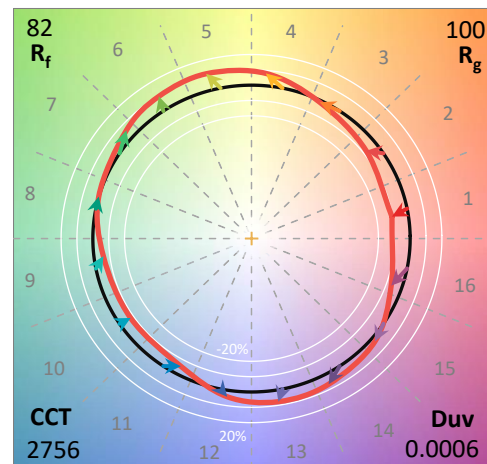
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-8
 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-827-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2756
 CIE u' : 0.2599
 CIE v' : 0.5271
 Duv: 0.0006
 CIE x: 0.4563
 CIE y: 0.4112
 CIE z: 0.1325
 Peak Wavelength (nm): 609
 Dominant Wavelength (nm): 583
 Purity: 60.41121
 R_f: 82.2
 R_g: 99.9

CRI (Ra): 82.9
 R1: 81.6
 R2: 88.8
 R3: 96.0
 R4: 83.4
 R5: 81.4
 R6: 87.0
 R7: 84.0
 R8: 60.8
 R9: 10.8
 R10: 74.8
 R11: 84.3
 R12: 72.1
 R13: 82.9
 R14: 97.3
 R15: 73.7



Test Conditions

Stabilization Time: 29M
 Operation Time: 1H 29M
 Sphere Temperature (°C): 25.2

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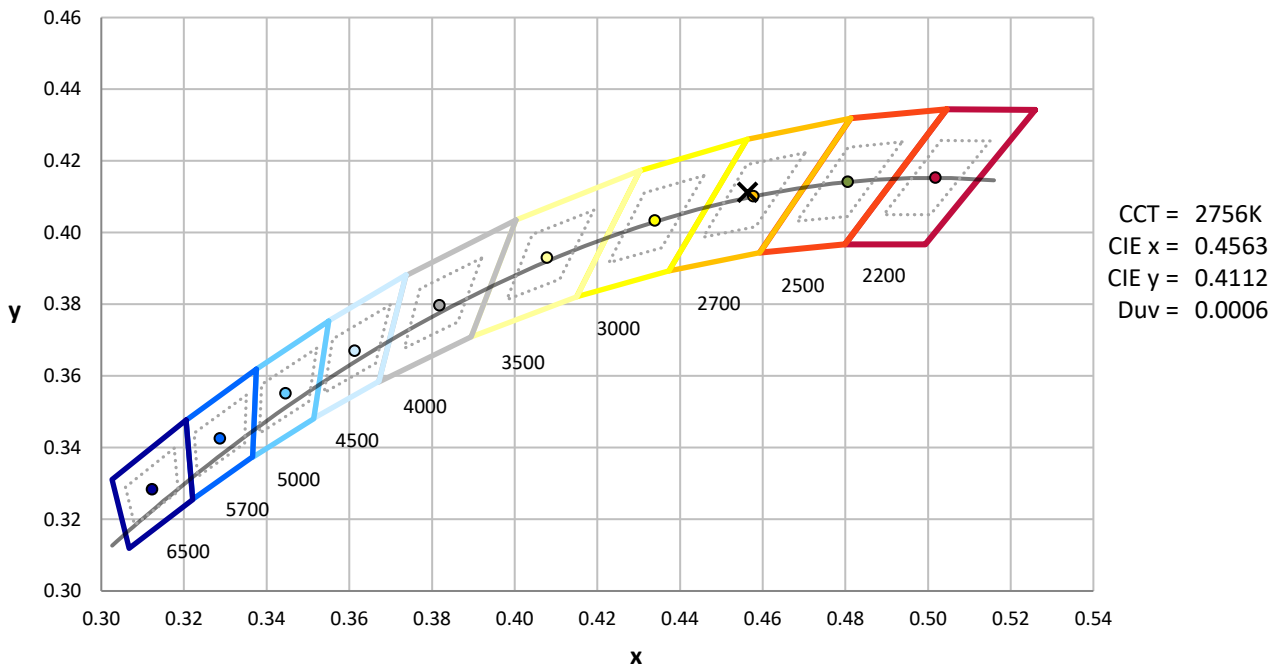
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

Scotopic Flux vs. Wavelength



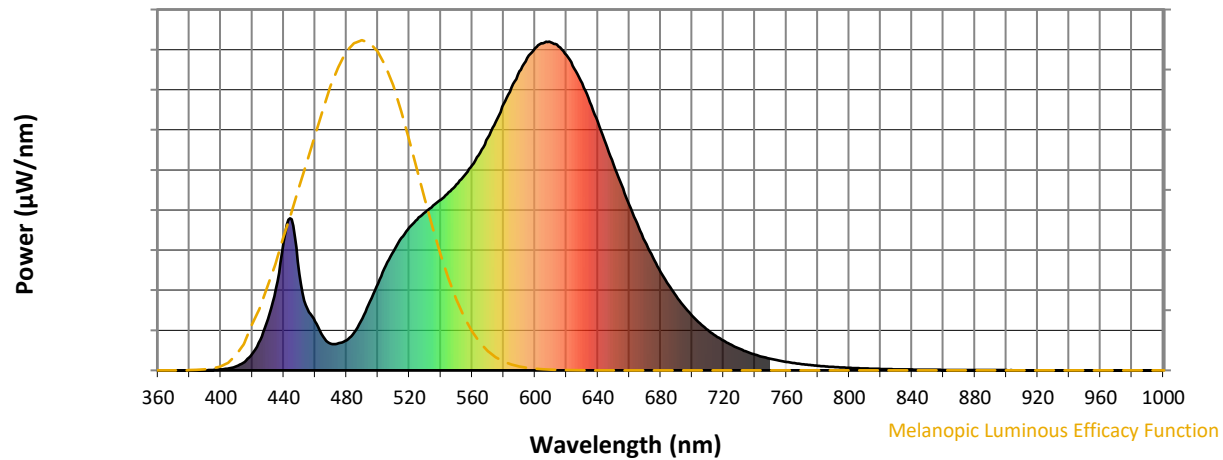
Scotopic Lumens: NR

S/P: 1.2

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.16

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	158	NR	620	959	NR	750	35	NR	880	1	NR
365	0	NR	495	211	NR	625	918	NR	755	30	NR	885	1	NR
370	0	NR	500	264	NR	630	873	NR	760	26	NR	890	1	NR
375	0	NR	505	318	NR	635	816	NR	765	22	NR	895	1	NR
380	0	NR	510	363	NR	640	755	NR	770	19	NR	900	1	NR
385	0	NR	515	403	NR	645	689	NR	775	16	NR	905	1	NR
390	0	NR	520	435	NR	650	626	NR	780	14	NR	910	0	NR
395	1	NR	525	459	NR	655	564	NR	785	12	NR	915	0	NR
400	3	NR	530	481	NR	660	503	NR	790	10	NR	920	0	NR
405	6	NR	535	501	NR	665	447	NR	795	9	NR	925	0	NR
410	13	NR	540	519	NR	670	392	NR	800	8	NR	930	0	NR
415	26	NR	545	542	NR	675	343	NR	805	7	NR	935	0	NR
420	51	NR	550	565	NR	680	299	NR	810	6	NR	940	0	NR
425	93	NR	555	593	NR	685	260	NR	815	5	NR	945	0	NR
430	156	NR	560	624	NR	690	225	NR	820	4	NR	950	0	NR
435	250	NR	565	662	NR	695	194	NR	825	4	NR	955	0	NR
440	391	NR	570	707	NR	700	166	NR	830	3	NR	960	0	NR
445	460	NR	575	756	NR	705	143	NR	835	3	NR	965	0	NR
450	293	NR	580	810	NR	710	122	NR	840	2	NR	970	0	NR
455	188	NR	585	860	NR	715	105	NR	845	2	NR	975	0	NR
460	149	NR	590	910	NR	720	90	NR	850	2	NR	980	0	NR
465	103	NR	595	950	NR	725	77	NR	855	2	NR	985	0	NR
470	80	NR	600	980	NR	730	66	NR	860	1	NR	990	0	NR
475	82	NR	605	995	NR	735	56	NR	865	1	NR	995	0	NR
480	92	NR	610	998	NR	740	48	NR	870	1	NR	1000	0	NR
485	116	NR	615	985	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-8

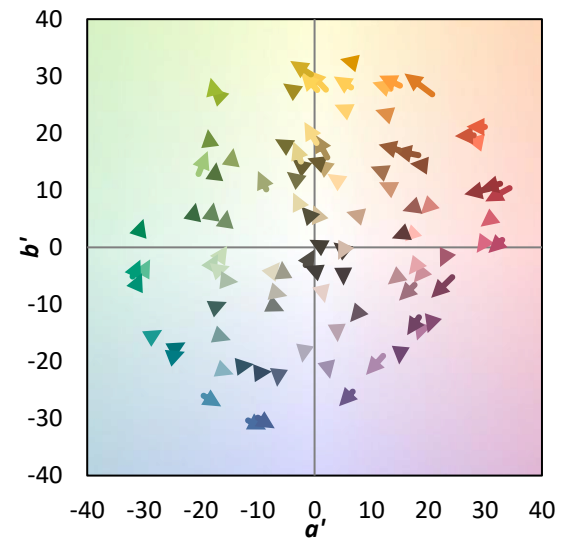
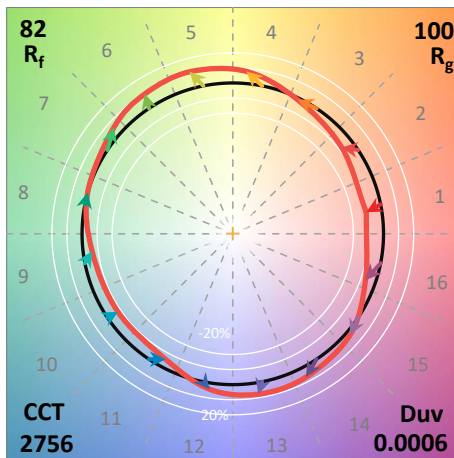
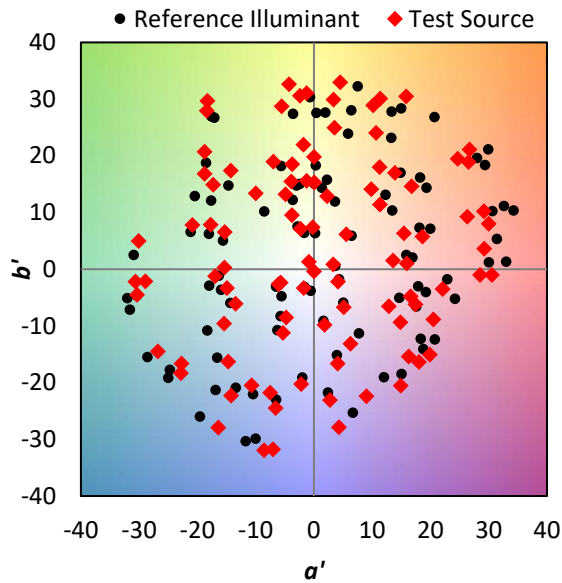
TM-30-18

Summary

$R_f = 82.2$
 $R_g = 99.9$
 $CIE R_a = 82.9$
 $R_9 = 10.8$

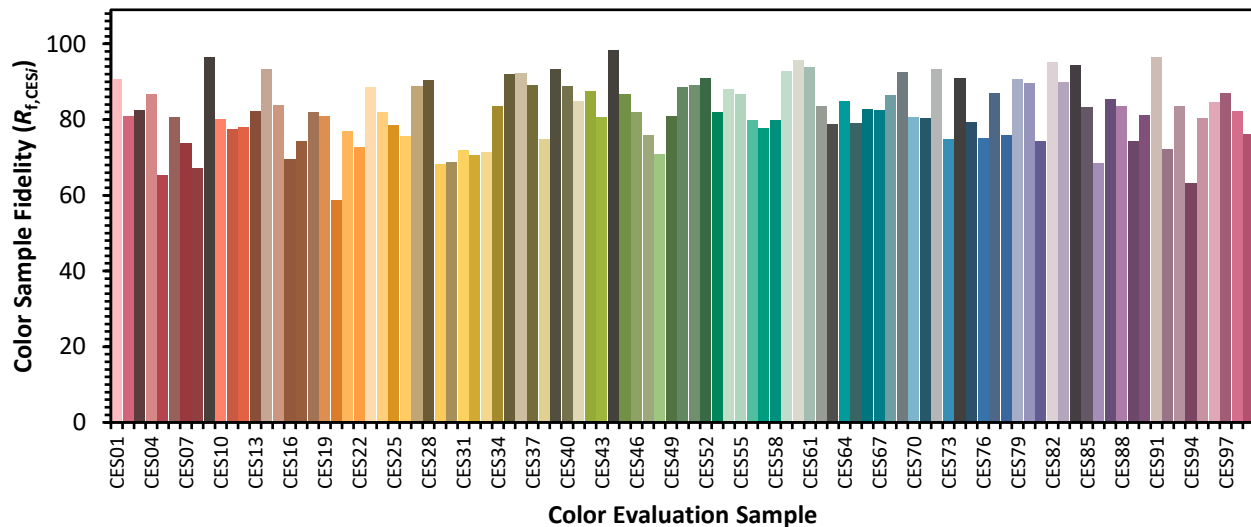


Color Vector Graphics

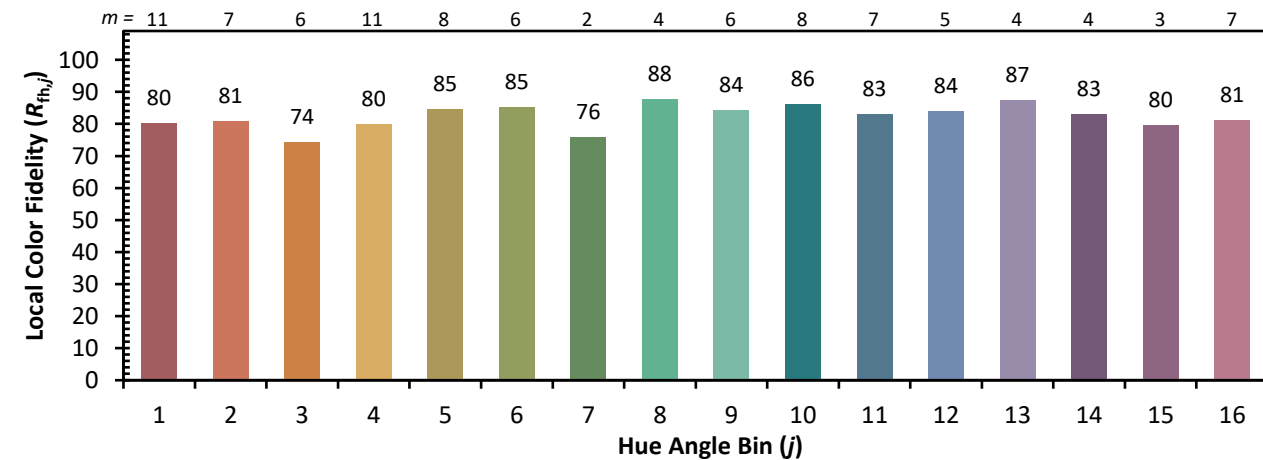
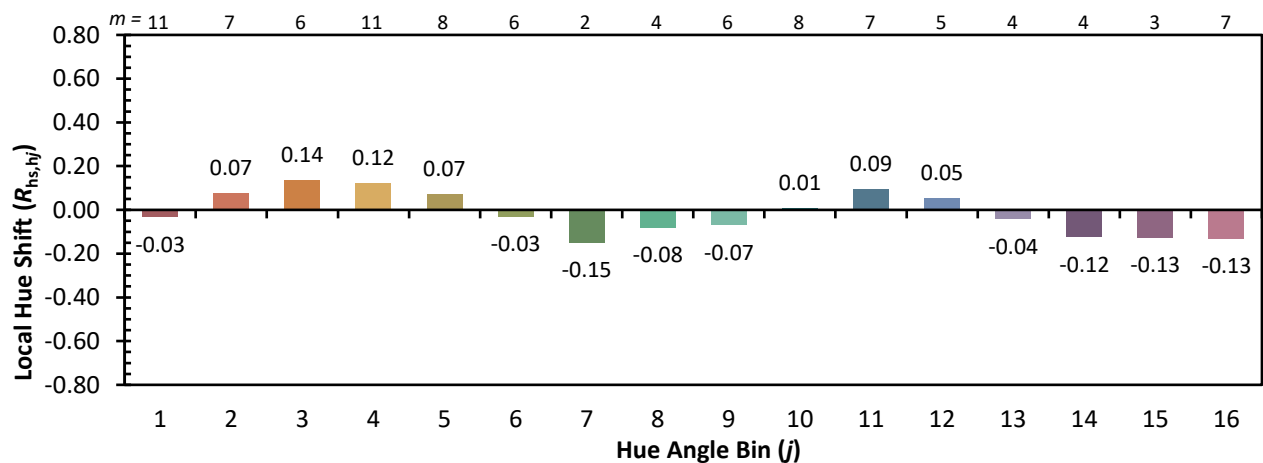


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 76	CES51 = 89	CES76 = 75
CES02 = 63	CES27 = 89	CES52 = 91	CES77 = 87
CES03 = 31	CES28 = 90	CES53 = 82	CES78 = 76
CES04 = 71	CES29 = 68	CES54 = 88	CES79 = 91
CES05 = 50	CES30 = 69	CES55 = 87	CES80 = 90
CES06 = 52	CES31 = 72	CES56 = 80	CES81 = 74
CES07 = 43	CES32 = 71	CES57 = 78	CES82 = 95
CES08 = 42	CES33 = 71	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 84	CES59 = 93	CES84 = 94
CES10 = 77	CES35 = 92	CES60 = 96	CES85 = 83
CES11 = 59	CES36 = 92	CES61 = 94	CES86 = 69
CES12 = 66	CES37 = 89	CES62 = 84	CES87 = 85
CES13 = 44	CES38 = 75	CES63 = 79	CES88 = 84
CES14 = 74	CES39 = 93	CES64 = 85	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 79	CES90 = 81
CES16 = 48	CES41 = 85	CES66 = 83	CES91 = 96
CES17 = 50	CES42 = 88	CES67 = 82	CES92 = 72
CES18 = 57	CES43 = 81	CES68 = 86	CES93 = 84
CES19 = 73	CES44 = 98	CES69 = 92	CES94 = 63
CES20 = 67	CES45 = 87	CES70 = 81	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 81	CES96 = 85
CES22 = 79	CES47 = 76	CES72 = 93	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 75	CES98 = 82
CES24 = 91	CES49 = 81	CES74 = 91	CES99 = 76
CES25 = 72	CES50 = 88	CES75 = 79	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)