

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: P1049730

Luminaire Tested: **GALN-SA5B-827-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049730
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17469.7 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

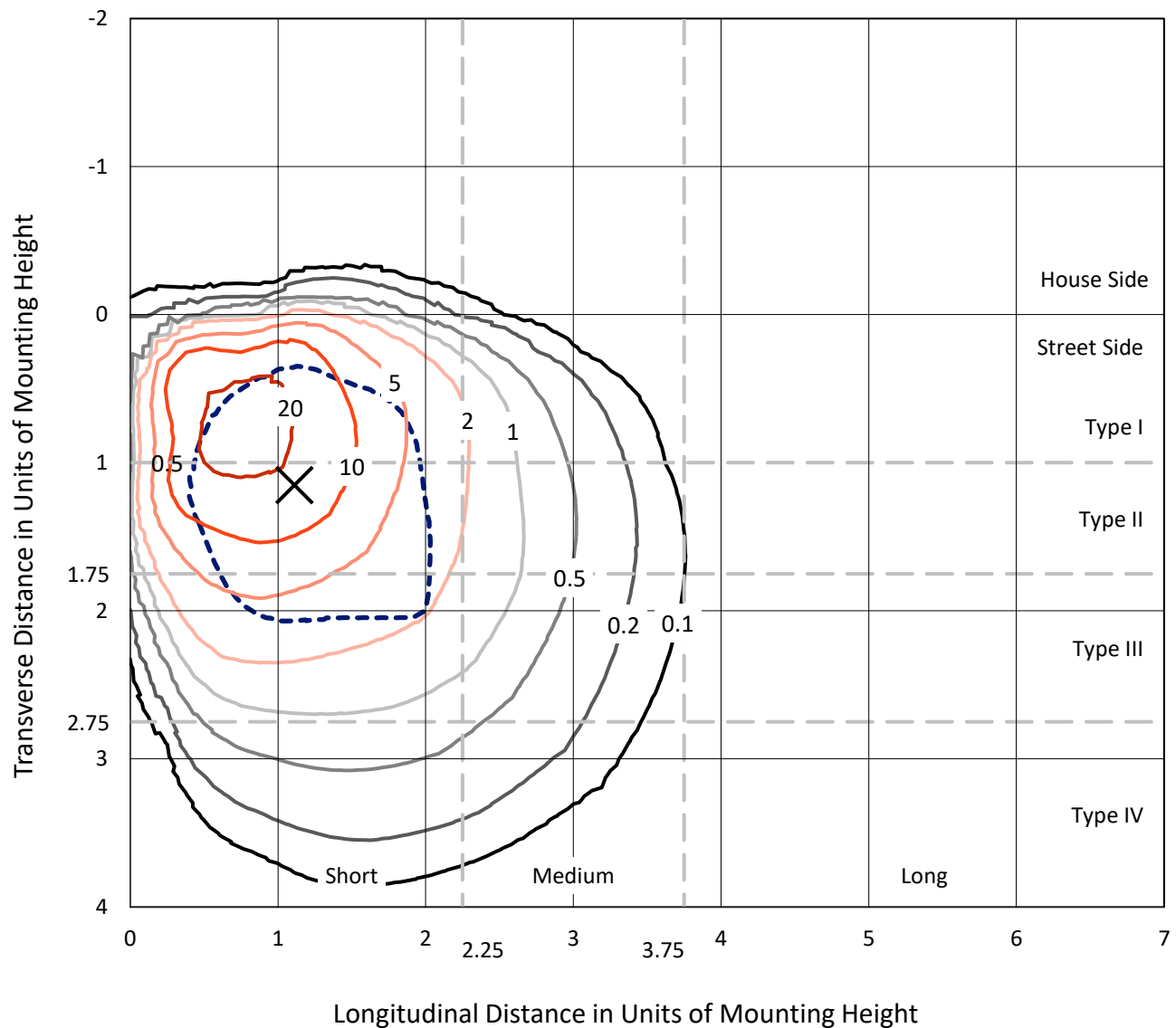
Input Watts (W): 178.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

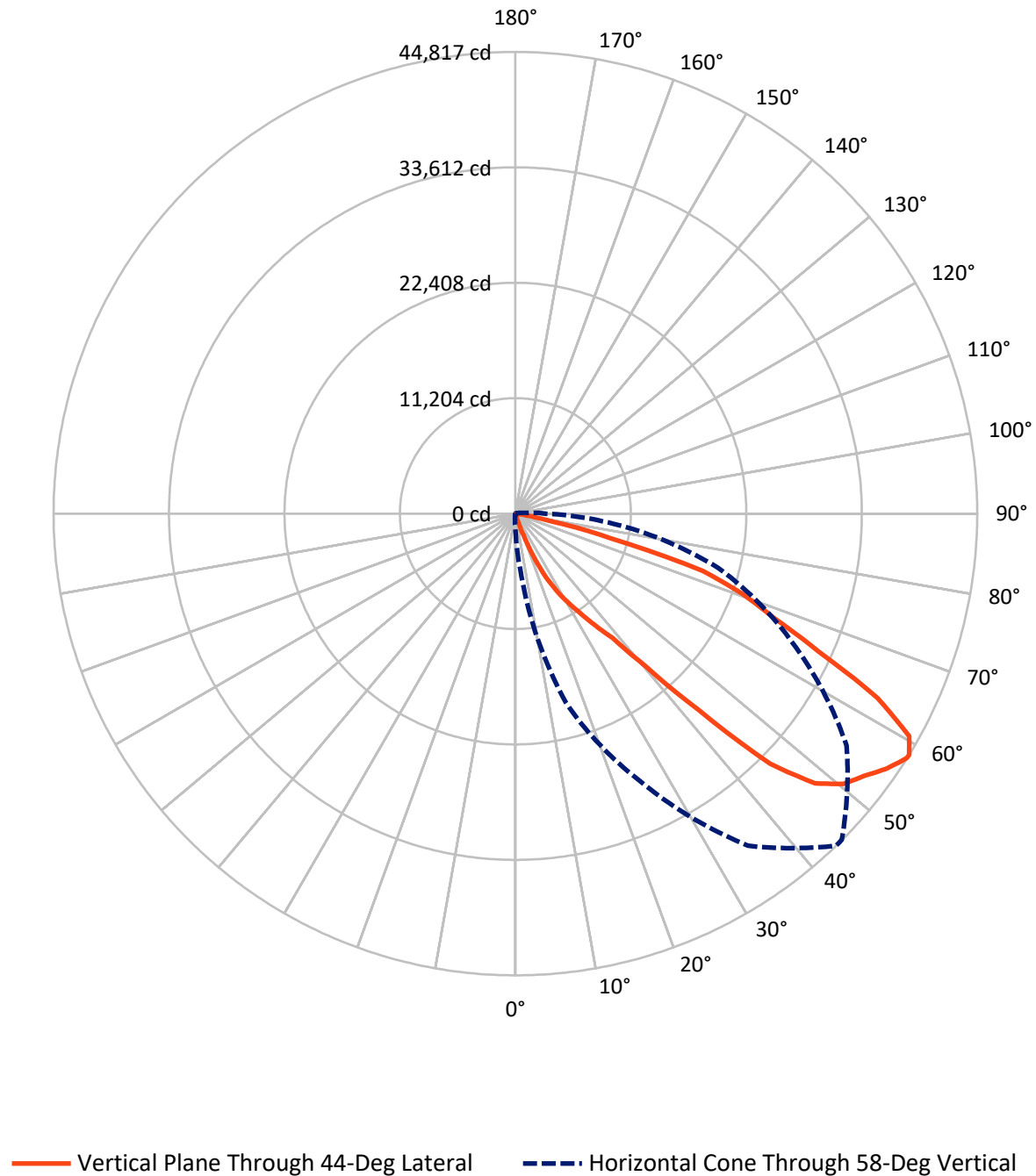
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 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	119.3	0.0	119.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17350.4	0.0	17350.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	17469.7	0.0	17469.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.0
10°-20°	38.3	0.2
20°-30°	413.9	2.4
30°-40°	1223.9	7.0
40°-50°	3648.0	20.9
50°-60°	5788.4	33.1
60°-70°	4828.2	27.6
70°-80°	1489.1	8.5
80°-90°	33.1	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°	17469.7	100.0
0°-180°	17469.7	100.0



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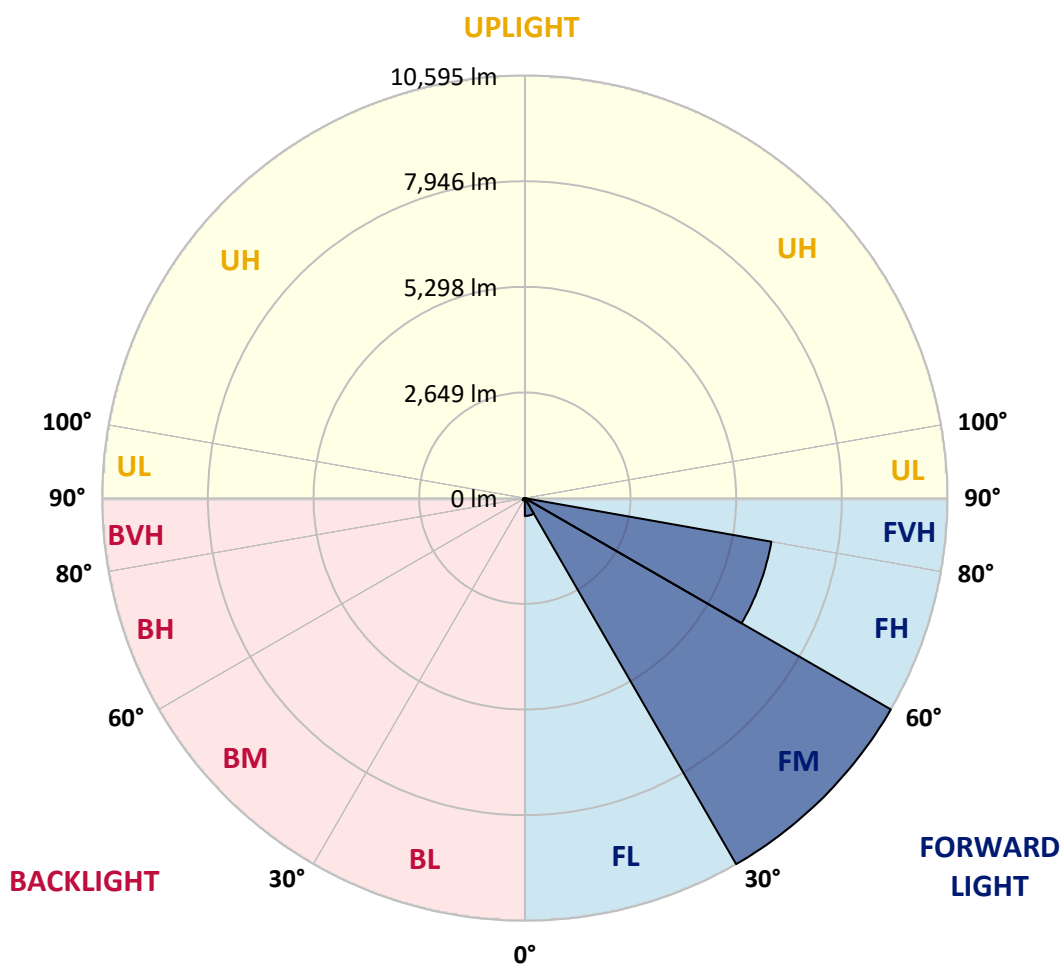
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	447.3	2.6			
FM	(30°-60°)	10595.0	60.6			
FH	(60°-80°)	6276.6	35.9			G3/7500
FVH	(80°-90°)	31.5	0.2			G1/100
BL	(0°-30°)	11.7	0.1	B0/110		
BM	(30°-60°)	65.3	0.4	B0/220		
BH	(60°-80°)	40.7	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°	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
2.5°	99.0	99.0	95.0	89.7	84.5	79.2	77.9	75.2	73.9	72.6
5°	102.9	102.9	101.6	97.7	92.4	88.4	88.4	84.5	81.8	79.2
7.5°	105.6	106.9	109.5	108.2	105.6	101.6	101.6	99.0	95.0	88.4
10°	109.5	113.5	118.8	121.4	122.7	122.7	121.4	120.1	113.5	104.3
12.5°	113.5	121.4	134.6	147.8	155.7	166.3	165.0	162.3	145.2	125.4
15°	121.4	133.3	161.0	199.3	258.7	295.6	310.1	296.9	240.2	168.9
17.5°	130.6	150.4	233.6	417.0	683.6	810.3	886.8	824.8	546.4	320.7
20°	139.9	183.4	434.2	1080.8	1773.7	2188.0	2302.9	2123.4	1363.2	611.0
22.5°	155.7	257.3	880.2	2234.2	3821.8	4443.4	4560.8	3986.8	2574.7	1206.2
25°	188.7	373.5	1517.6	3641.0	5703.7	6752.8	6704.0	5951.8	4176.8	1926.7
27.5°	236.2	543.7	2294.9	5173.2	7506.4	8431.5	8542.3	7612.0	5567.8	2833.4
30°	304.8	753.5	3129.0	6400.5	8951.5	9951.8	9970.3	9008.2	6812.2	3629.1
32.5°	370.8	951.5	3858.8	7586.9	10375.4	11472.1	11553.9	10370.1	7741.3	4457.9
35°	421.0	1080.8	4597.8	8629.4	11811.2	13322.3	13317.0	11911.5	8841.9	5198.3
37.5°	424.9	1210.2	5266.9	9695.8	13629.7	15321.6	15489.2	13939.9	10172.2	6114.1
40°	415.7	1355.3	6114.1	11358.6	16906.5	19502.4	19650.2	17697.0	12840.6	7681.9
42.5°	426.3	1607.4	7489.2	14429.5	22347.6	26075.7	26360.8	24307.4	17745.9	10880.8
45°	481.7	2081.1	10370.1	19567.0	30103.4	34648.4	34553.4	31596.0	23453.5	15750.5
47.5°	665.1	3241.2	14640.6	24567.3	35060.2	39107.7	39189.5	35574.9	26784.4	19494.4
50°	1022.8	4959.4	18228.9	27210.7	37191.5	41252.2	41175.6	36998.8	28050.0	21338.1
52.5°	1330.2	6202.5	20028.9	28138.4	37464.7	42311.9	42306.6	37373.6	28246.6	21496.4
55°	1406.8	6296.2	20043.4	28188.6	38077.0	43698.9	43873.1	38296.1	28501.3	20804.9
57.5°	1376.4	5574.4	19206.8	28478.9	39167.0	44771.8	44781.0	39189.5	29148.0	20381.3
58°	1350.0	5460.9	19037.8	28643.8	39354.4	44816.6	44794.2	39230.4	29674.5	20365.4
60°	1202.2	4741.6	18379.3	29064.8	39076.0	43895.5	43685.7	38337.0	29596.7	20203.1
62.5°	944.9	3699.1	17731.3	28577.9	36090.9	39436.3	39523.4	33941.1	26981.0	19256.9
65°	752.2	2756.8	16380.0	25067.5	29719.4	32385.2	32709.8	27600.0	22520.5	16306.1
67.5°	599.1	1992.7	13740.6	19957.7	23516.9	27028.5	27264.8	23172.4	17447.6	12493.5
70°	487.0	1347.4	9484.6	14595.8	19396.8	23345.3	23359.8	19250.3	13022.7	8186.0
72.5°	431.5	933.0	5505.7	10644.6	15728.1	19023.3	18639.3	15621.2	10008.5	4848.5
75°	373.5	618.9	2700.1	6507.4	9536.1	9600.7	9747.2	7246.4	5002.9	2305.5
77.5°	307.5	439.5	1063.7	1777.6	2859.8	3660.8	3796.7	2876.9	1664.1	567.5
80°	211.2	208.5	286.4	545.0	818.2	1025.4	956.8	740.3	435.5	217.7
82.5°	91.1	99.0	129.3	155.7	126.7	122.7	117.5	75.2	58.1	44.9
85°	29.0	26.4	27.7	27.7	22.4	17.2	17.2	7.9	0.0	0.0
87.5°	14.5	11.9	11.9	10.6	6.6	2.6	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°
76.5	0°	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
71.3	2.5°	69.9	69.9	67.3	64.7	63.3	60.7	59.4	58.1	56.7	55.4
76.5	5°	73.9	72.6	68.6	64.7	60.7	56.7	54.1	51.5	48.8	47.5
84.5	7.5°	80.5	77.9	69.9	63.3	58.1	52.8	50.1	46.2	43.5	39.6
93.7	10°	88.4	83.1	72.6	64.7	56.7	50.1	46.2	42.2	38.3	33.0
106.9	12.5°	99.0	89.7	76.5	63.3	54.1	46.2	42.2	37.0	33.0	29.0
124.1	15°	108.2	96.3	77.9	63.3	51.5	42.2	37.0	31.7	27.7	22.4
155.7	17.5°	121.4	101.6	76.5	59.4	47.5	37.0	31.7	27.7	21.1	13.2
230.9	20°	143.8	105.6	73.9	55.4	40.9	30.4	23.8	18.5	9.2	2.6
347.1	22.5°	179.5	116.1	71.3	50.1	35.6	23.8	15.8	6.6	0.0	0.0
527.9	25°	248.1	134.6	71.3	47.5	31.7	17.2	5.3	0.0	0.0	0.0
749.6	27.5°	329.9	159.7	71.3	40.9	25.1	9.2	0.0	0.0	0.0	0.0
1021.4	30°	413.1	187.4	71.3	35.6	19.8	1.3	0.0	0.0	0.0	0.0
1257.7	32.5°	492.2	211.2	72.6	30.4	13.2	0.0	0.0	0.0	0.0	0.0
1584.9	35°	572.7	215.1	71.3	26.4	7.9	0.0	0.0	0.0	0.0	0.0
1986.1	37.5°	675.7	207.2	67.3	23.8	4.0	0.0	0.0	0.0	0.0	0.0
2613.0	40°	831.4	211.2	63.3	22.4	1.3	0.0	0.0	0.0	0.0	0.0
3730.8	42.5°	1119.1	228.3	58.1	22.4	0.0	0.0	0.0	0.0	0.0	0.0
5942.6	45°	1934.7	306.2	52.8	23.8	0.0	0.0	0.0	0.0	0.0	0.0
8921.1	47.5°	3200.2	550.3	51.5	23.8	0.0	0.0	0.0	0.0	0.0	0.0
10746.2	50°	4084.4	692.8	54.1	25.1	0.0	0.0	0.0	0.0	0.0	0.0
10974.5	52.5°	4077.8	772.0	56.7	26.4	5.3	0.0	0.0	0.0	0.0	0.0
10115.4	55°	3625.2	786.5	60.7	29.0	17.2	0.0	0.0	0.0	0.0	0.0
8692.8	57.5°	3030.0	717.9	69.9	35.6	31.7	0.0	0.0	0.0	0.0	0.0
8469.8	58°	2924.4	686.2	72.6	37.0	34.3	0.0	0.0	0.0	0.0	0.0
7346.7	60°	2396.6	559.5	92.4	46.2	46.2	0.0	0.0	0.0	0.0	0.0
6023.1	62.5°	1654.9	488.3	105.6	59.4	47.5	0.0	0.0	0.0	0.0	0.0
4440.8	65°	1170.6	440.8	114.8	63.3	38.3	0.0	0.0	0.0	0.0	0.0
3155.4	67.5°	875.0	406.5	126.7	64.7	19.8	0.0	0.0	0.0	0.0	0.0
1979.5	70°	670.4	381.4	155.7	68.6	5.3	0.0	0.0	0.0	0.0	0.0
1179.8	72.5°	546.4	352.4	188.7	71.3	0.0	0.0	0.0	0.0	0.0	0.0
707.4	75°	452.7	318.0	182.1	77.9	0.0	0.0	0.0	0.0	0.0	0.0
377.4	77.5°	300.9	246.8	166.3	77.9	0.0	0.0	0.0	0.0	0.0	0.0
134.6	80°	105.6	97.7	129.3	68.6	0.0	0.0	0.0	0.0	0.0	0.0
27.7	82.5°	15.8	13.2	18.5	23.8	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



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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
76.5	0°	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
54.1	2.5°	54.1	54.1	52.8	54.1	54.1	56.7	63.3	72.6	83.1	87.1
46.2	5°	44.9	43.5	42.2	42.2	42.2	46.2	51.5	62.0	73.9	79.2
38.3	7.5°	37.0	35.6	34.3	33.0	33.0	35.6	42.2	54.1	66.0	71.3
31.7	10°	30.4	27.7	26.4	25.1	25.1	27.7	34.3	46.2	59.4	64.7
26.4	12.5°	25.1	21.1	18.5	17.2	15.8	19.8	26.4	37.0	51.5	58.1
19.8	15°	17.2	13.2	9.2	7.9	6.6	10.6	17.2	29.0	43.5	51.5
10.6	17.5°	9.2	4.0	1.3	0.0	0.0	2.6	7.9	21.1	35.6	42.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	26.4	33.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	15.8	22.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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	10.6
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°
76.5	0°	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
91.1	2.5°	93.7	92.4	89.7	87.1	87.1	87.1	91.1	95.0	99.0	99.0
81.8	5°	87.1	87.1	85.8	83.1	83.1	84.5	89.7	96.3	101.6	102.9
75.2	7.5°	80.5	83.1	80.5	79.2	80.5	81.8	87.1	95.0	102.9	105.6
69.9	10°	76.5	77.9	77.9	76.5	76.5	79.2	84.5	95.0	105.6	109.5
63.3	12.5°	71.3	73.9	72.6	72.6	72.6	75.2	81.8	93.7	108.2	113.5
56.7	15°	66.0	69.9	69.9	68.6	68.6	69.9	79.2	92.4	112.2	121.4
48.8	17.5°	60.7	64.7	66.0	63.3	63.3	66.0	75.2	92.4	114.8	130.6
39.6	20°	50.1	56.7	60.7	56.7	56.7	59.4	68.6	87.1	116.1	139.9
29.0	22.5°	39.6	46.2	51.5	50.1	50.1	51.5	63.3	83.1	117.5	155.7
17.2	25°	29.0	35.6	39.6	42.2	42.2	46.2	58.1	80.5	122.7	188.7
7.9	27.5°	17.2	25.1	30.4	33.0	34.3	39.6	54.1	77.9	132.0	236.2
0.0	30°	7.9	14.5	21.1	26.4	26.4	35.6	50.1	75.2	143.8	304.8
0.0	32.5°	0.0	6.6	10.6	18.5	19.8	29.0	46.2	72.6	161.0	370.8
0.0	35°	0.0	0.0	5.3	14.5	14.5	23.8	42.2	69.9	187.4	421.0
0.0	37.5°	0.0	0.0	0.0	10.6	11.9	21.1	40.9	68.6	192.7	424.9
0.0	40°	0.0	0.0	0.0	7.9	9.2	19.8	40.9	69.9	174.2	415.7
0.0	42.5°	0.0	0.0	0.0	5.3	6.6	19.8	40.9	72.6	157.0	426.3
0.0	45°	0.0	0.0	0.0	4.0	5.3	21.1	39.6	71.3	147.8	481.7
0.0	47.5°	0.0	0.0	0.0	5.3	7.9	21.1	38.3	69.9	149.1	665.1
0.0	50°	0.0	0.0	0.0	6.6	9.2	21.1	39.6	67.3	163.6	1022.8
0.0	52.5°	0.0	0.0	0.0	5.3	7.9	23.8	43.5	66.0	178.2	1330.2
0.0	55°	0.0	0.0	0.0	1.3	4.0	30.4	47.5	66.0	200.6	1406.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	34.3	54.1	69.9	237.5	1376.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	34.3	55.4	69.9	240.2	1350.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	34.3	60.7	77.9	258.7	1202.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.0	72.6	97.7	269.2	944.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	23.8	85.8	106.9	277.1	752.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	22.4	88.4	108.2	281.1	599.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	23.8	87.1	116.1	294.3	487.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	26.4	79.2	128.0	294.3	431.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	27.7	73.9	143.8	267.9	373.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	26.4	72.6	167.6	238.9	307.5
0.0	80°	2.6	4.0	4.0	2.6	2.6	22.4	71.3	170.2	203.2	211.2
1.3	82.5°	7.9	10.6	9.2	6.6	6.6	19.8	63.3	142.5	105.6	91.1
7.9	85°	14.5	17.2	17.2	14.5	14.5	18.5	39.6	51.5	35.6	29.0
14.5	87.5°	19.8	22.4	22.4	19.8	19.8	18.5	17.2	15.8	14.5	14.5
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



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

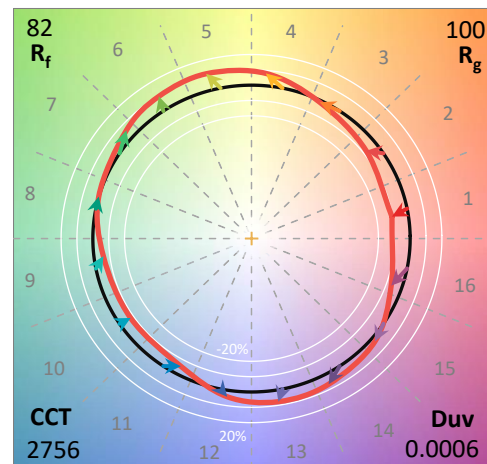
Test Information

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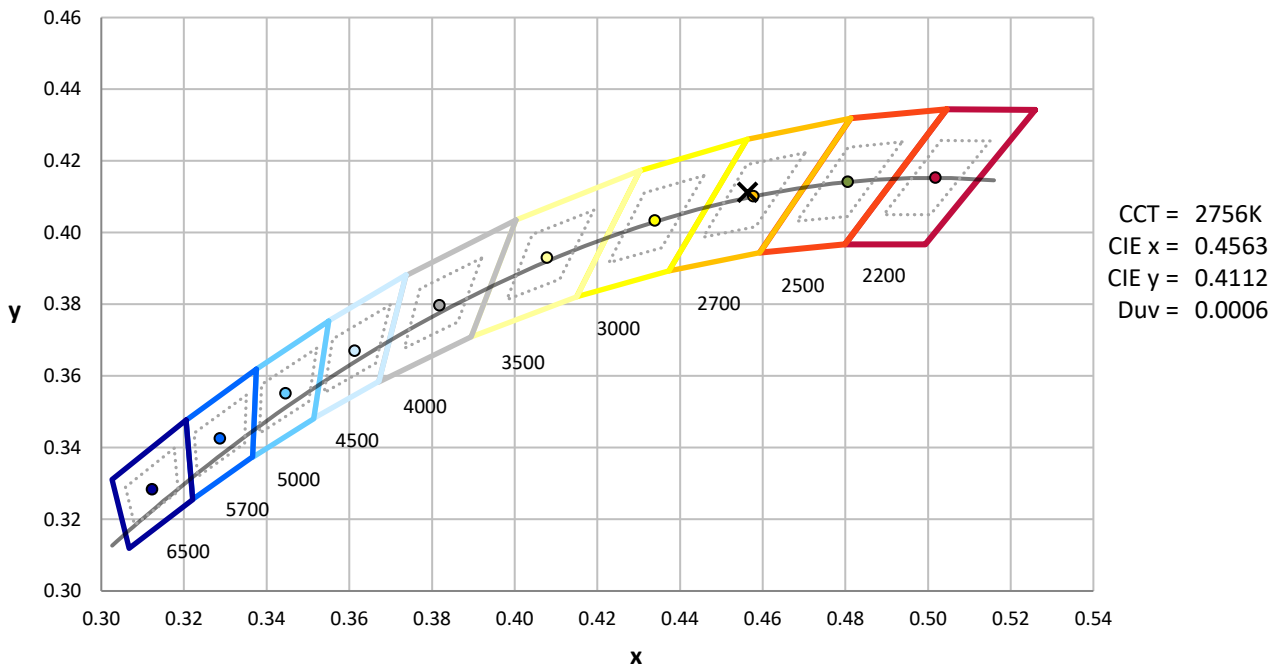
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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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 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	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

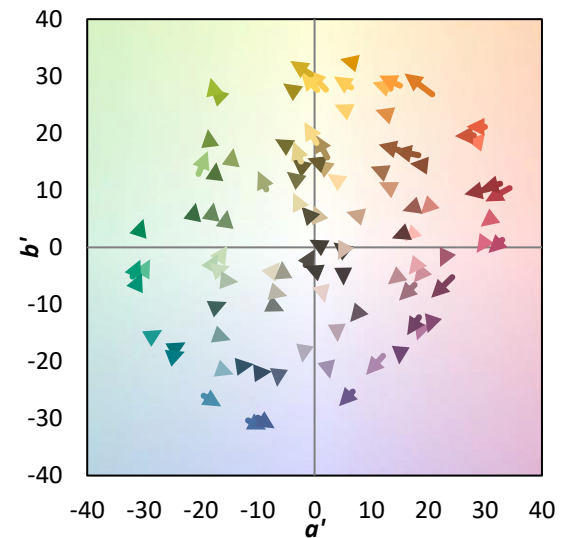
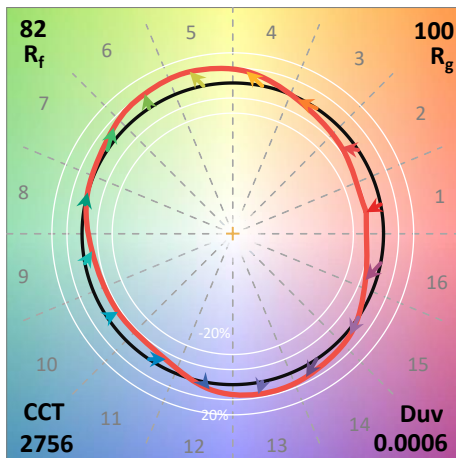
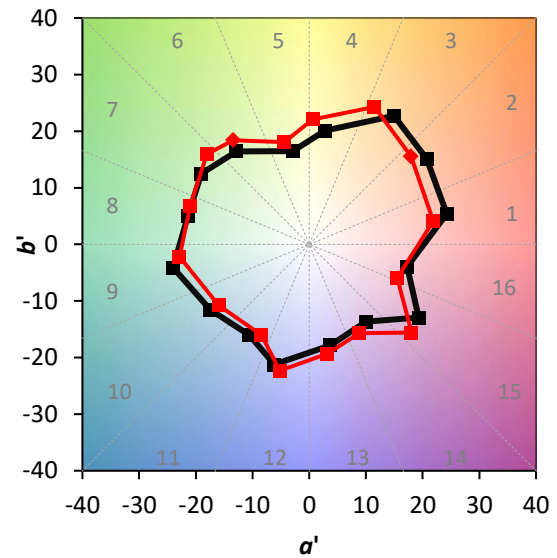
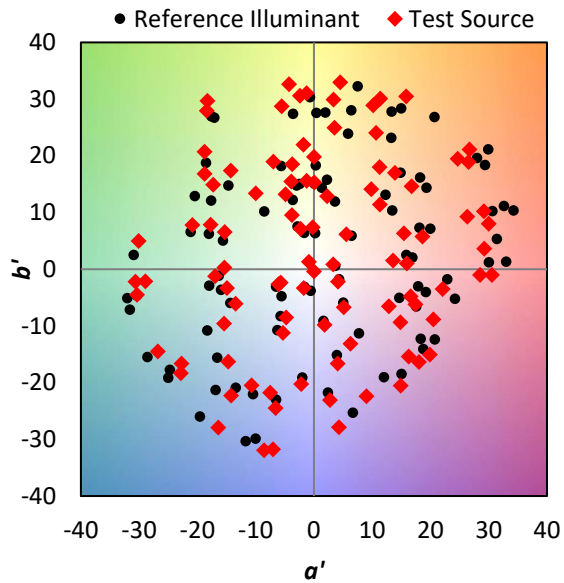
TM-30-18

Summary

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

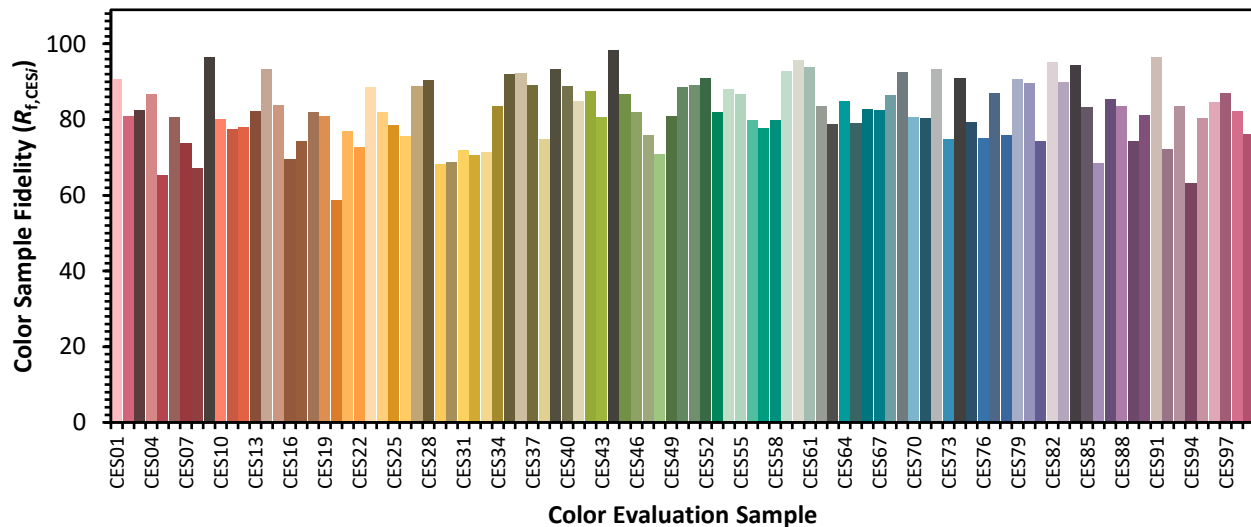


Color Vector Graphics

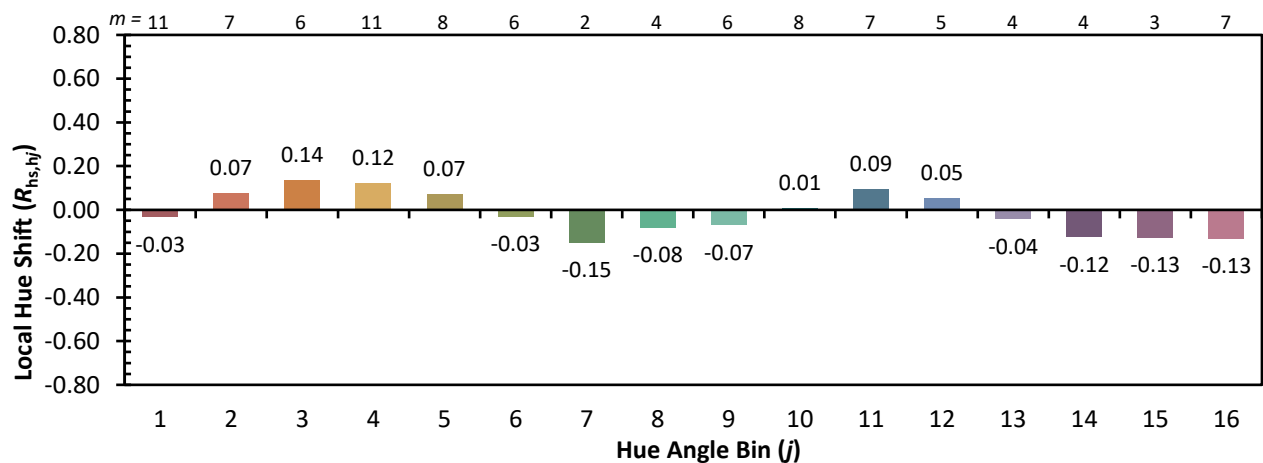


Individual Sample Fidelity Index ($R_{f,i}$)

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)