

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: P1049719

Luminaire Tested: **GALN-SA2C-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049719
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8907 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 - G2

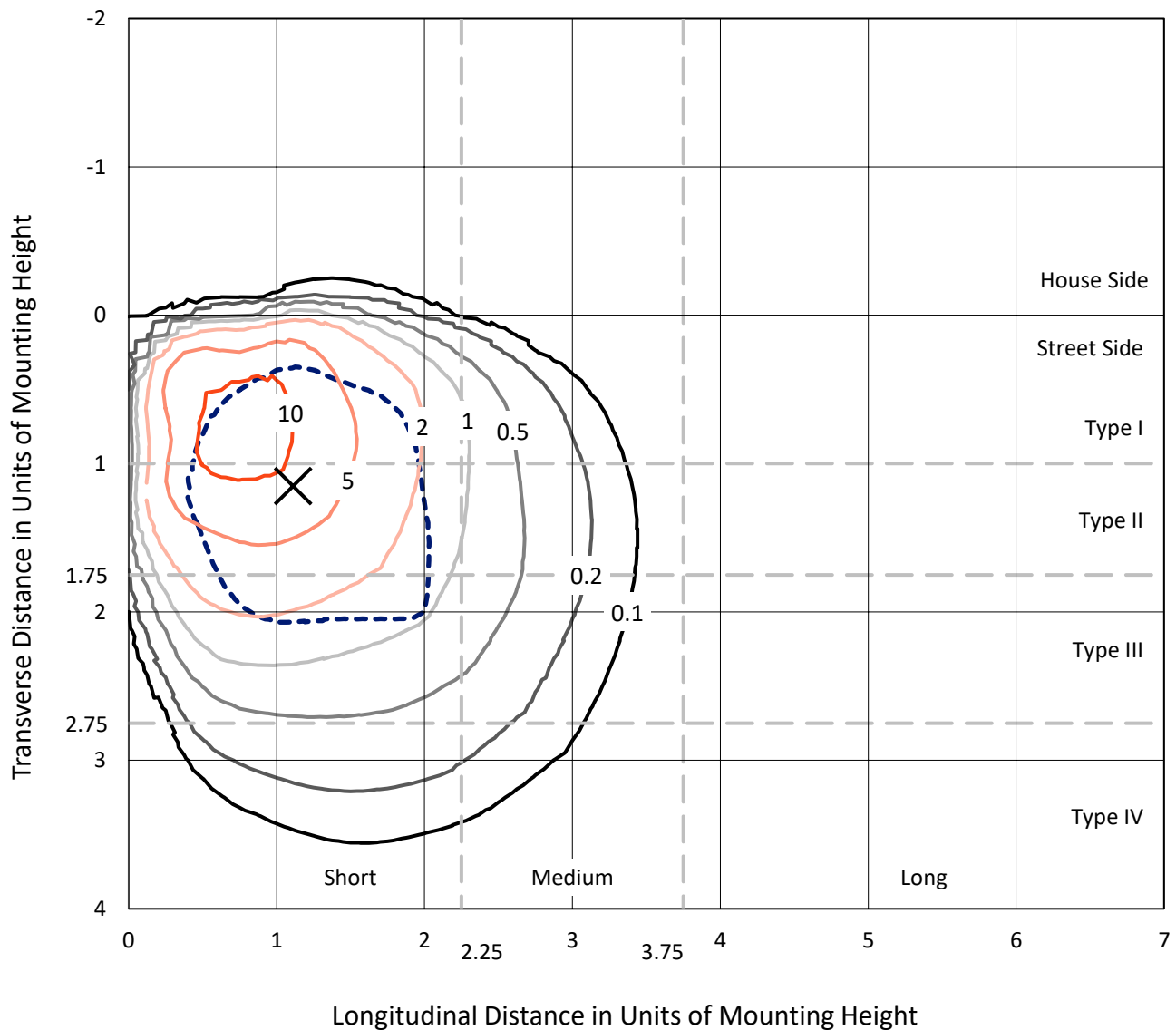
Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

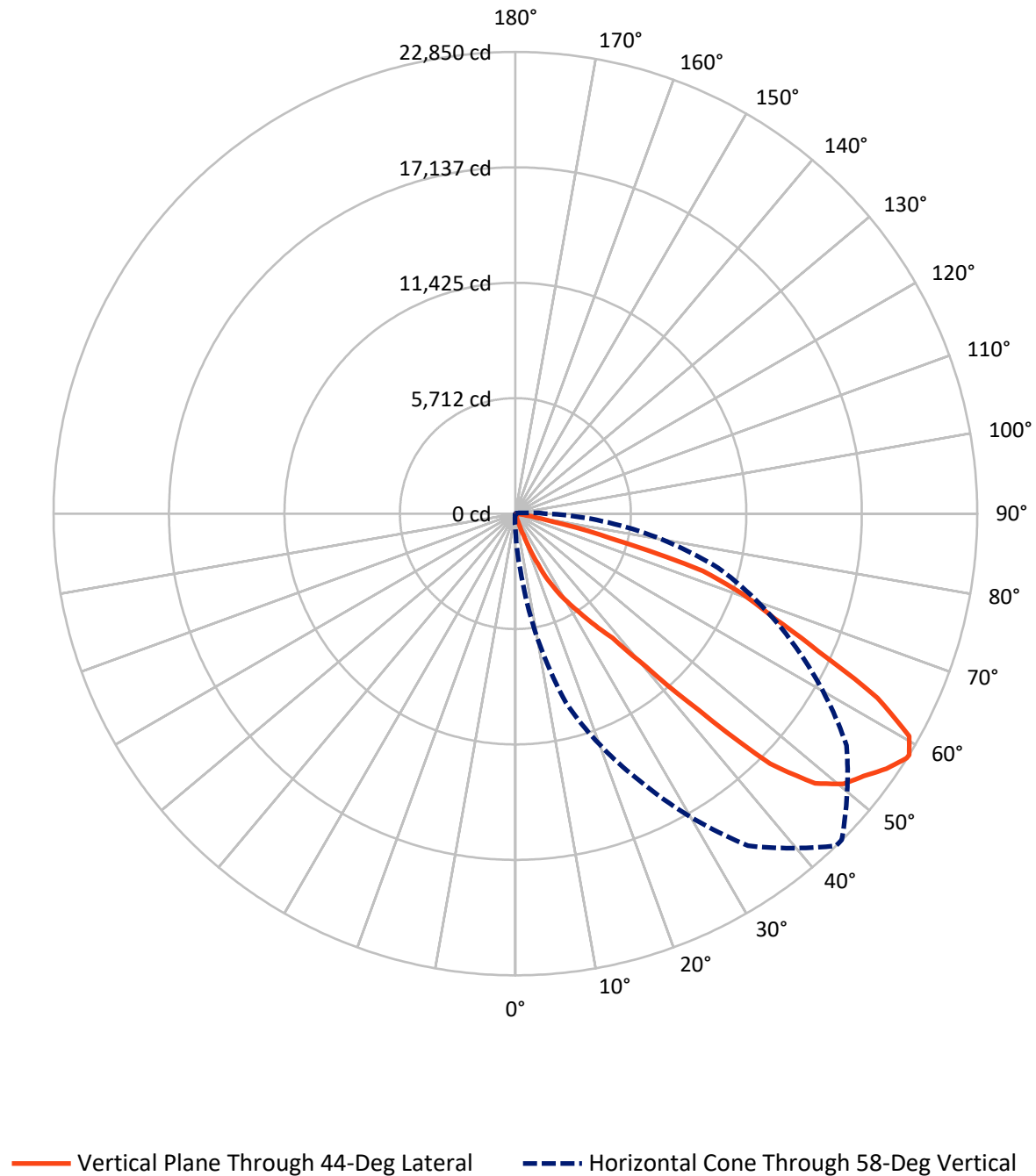
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.5 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	60.8	0.0	60.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8846.2	0.0	8846.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	8907.0	0.0	8907.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.0
10°-20°	19.5	0.2
20°-30°	211.0	2.4
30°-40°	624.0	7.0
40°-50°	1859.9	20.9
50°-60°	2951.2	33.1
60°-70°	2461.7	27.6
70°-80°	759.2	8.5
80°-90°	16.9	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°	8907.0	100.0
0°-180°	8907.0	100.0



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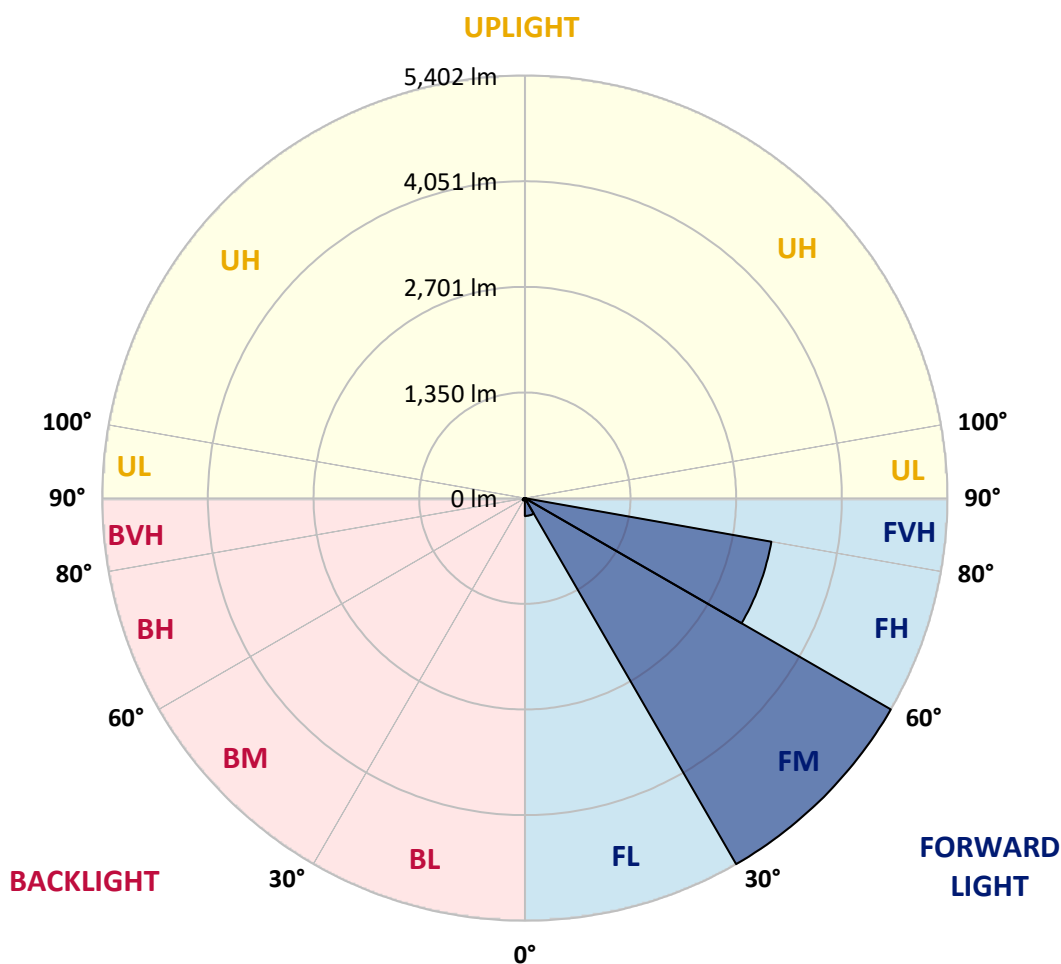
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.1	2.6			
FM	(30°-60°)	5401.9	60.6			
FH	(60°-80°)	3200.2	35.9			G2/5000
FVH	(80°-90°)	16.0	0.2			G1/100
BL	(0°-30°)	5.9	0.1	B0/110		
BM	(30°-60°)	33.3	0.4	B0/220		
BH	(60°-80°)	20.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
2.5°	50.5	50.5	48.4	45.8	43.1	40.4	39.7	38.4	37.7	37.0
5°	52.5	52.5	51.8	49.8	47.1	45.1	45.1	43.1	41.7	40.4
7.5°	53.8	54.5	55.8	55.2	53.8	51.8	51.8	50.5	48.4	45.1
10°	55.8	57.9	60.6	61.9	62.6	62.6	61.9	61.2	57.9	53.2
12.5°	57.9	61.9	68.6	75.4	79.4	84.8	84.1	82.8	74.0	63.9
15°	61.9	68.0	82.1	101.6	131.9	150.7	158.1	151.4	122.5	86.1
17.5°	66.6	76.7	119.1	212.6	348.5	413.1	452.2	420.5	278.6	163.5
20°	71.3	93.5	221.4	551.1	904.3	1115.6	1174.1	1082.6	695.1	311.5
22.5°	79.4	131.2	448.8	1139.1	1948.6	2265.5	2325.4	2032.7	1312.7	615.0
25°	96.2	190.4	773.8	1856.4	2908.0	3443.0	3418.1	3034.5	2129.6	982.4
27.5°	120.4	277.2	1170.1	2637.6	3827.2	4298.8	4355.3	3881.0	2838.7	1444.6
30°	155.4	384.2	1595.3	3263.3	4563.9	5073.9	5083.4	4592.9	3473.2	1850.3
32.5°	189.1	485.1	1967.4	3868.2	5289.9	5849.1	5890.8	5287.2	3946.9	2272.9
35°	214.6	551.1	2344.2	4399.7	6022.0	6792.4	6789.7	6073.1	4508.1	2650.3
37.5°	216.7	617.0	2685.3	4943.4	6949.2	7811.8	7897.2	7107.3	5186.3	3117.3
40°	211.9	691.0	3117.3	5791.2	8619.8	9943.3	10018.7	9022.9	6546.8	3916.6
42.5°	217.3	819.5	3818.4	7356.9	11394.0	13294.8	13440.1	12393.2	9047.8	5547.6
45°	245.6	1061.1	5287.2	9976.3	15348.3	17665.6	17617.2	16109.3	11957.8	8030.4
47.5°	339.1	1652.5	7464.6	12525.7	17875.5	19939.1	19980.9	18137.9	13656.1	9939.3
50°	521.5	2528.6	9294.0	13873.4	18962.2	21032.5	20993.5	18863.9	14301.4	10879.3
52.5°	678.2	3162.4	10211.8	14346.4	19101.5	21572.8	21570.1	19055.0	14401.6	10960.0
55°	717.3	3210.2	10219.2	14372.0	19413.7	22280.0	22368.8	19525.3	14531.5	10607.4
57.5°	701.8	2842.1	9792.6	14520.0	19969.4	22827.0	22831.7	19980.9	14861.2	10391.4
58°	688.3	2784.2	9706.5	14604.1	20065.0	22849.9	22838.4	20001.7	15129.6	10383.4
60°	613.0	2417.5	9370.7	14818.8	19923.0	22380.2	22273.3	19546.2	15089.9	10300.6
62.5°	481.8	1886.0	9040.4	14570.5	18401.0	20106.7	20151.1	17304.9	13756.4	9818.2
65°	383.5	1405.6	8351.4	12780.7	15152.5	16511.7	16677.2	14071.9	11482.1	8313.7
67.5°	305.5	1016.0	7005.7	10175.5	11990.1	13780.6	13901.0	11814.5	8895.7	6369.8
70°	248.3	687.0	4835.8	7441.7	9889.5	11902.7	11910.1	9814.8	6639.7	4173.7
72.5°	220.0	475.7	2807.1	5427.2	8019.0	9699.1	9503.3	7964.5	5102.9	2472.0
75°	190.4	315.6	1376.6	3317.8	4862.0	4895.0	4969.6	3694.6	2550.8	1175.5
77.5°	156.8	224.1	542.3	906.3	1458.1	1866.5	1935.8	1466.8	848.5	289.3
80°	107.7	106.3	146.0	277.9	417.2	522.8	487.8	377.5	222.0	111.0
82.5°	46.4	50.5	65.9	79.4	64.6	62.6	59.9	38.4	29.6	22.9
85°	14.8	13.5	14.1	14.1	11.4	8.7	8.7	4.0	0.0	0.0
87.5°	7.4	6.1	6.1	5.4	3.4	1.3	0.7	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°
39.0	0°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
36.3	2.5°	35.7	35.7	34.3	33.0	32.3	31.0	30.3	29.6	28.9	28.3
39.0	5°	37.7	37.0	35.0	33.0	31.0	28.9	27.6	26.2	24.9	24.2
43.1	7.5°	41.0	39.7	35.7	32.3	29.6	26.9	25.6	23.5	22.2	20.2
47.8	10°	45.1	42.4	37.0	33.0	28.9	25.6	23.5	21.5	19.5	16.8
54.5	12.5°	50.5	45.8	39.0	32.3	27.6	23.5	21.5	18.8	16.8	14.8
63.2	15°	55.2	49.1	39.7	32.3	26.2	21.5	18.8	16.1	14.1	11.4
79.4	17.5°	61.9	51.8	39.0	30.3	24.2	18.8	16.1	14.1	10.8	6.7
117.7	20°	73.3	53.8	37.7	28.3	20.9	15.5	12.1	9.4	4.7	1.3
177.0	22.5°	91.5	59.2	36.3	25.6	18.2	12.1	8.1	3.4	0.0	0.0
269.1	25°	126.5	68.6	36.3	24.2	16.1	8.7	2.7	0.0	0.0	0.0
382.2	27.5°	168.2	81.4	36.3	20.9	12.8	4.7	0.0	0.0	0.0	0.0
520.8	30°	210.6	95.5	36.3	18.2	10.1	0.7	0.0	0.0	0.0	0.0
641.2	32.5°	251.0	107.7	37.0	15.5	6.7	0.0	0.0	0.0	0.0	0.0
808.1	35°	292.0	109.7	36.3	13.5	4.0	0.0	0.0	0.0	0.0	0.0
1012.6	37.5°	344.5	105.6	34.3	12.1	2.0	0.0	0.0	0.0	0.0	0.0
1332.2	40°	423.9	107.7	32.3	11.4	0.7	0.0	0.0	0.0	0.0	0.0
1902.1	42.5°	570.6	116.4	29.6	11.4	0.0	0.0	0.0	0.0	0.0	0.0
3029.8	45°	986.4	156.1	26.9	12.1	0.0	0.0	0.0	0.0	0.0	0.0
4548.4	47.5°	1631.7	280.6	26.2	12.1	0.0	0.0	0.0	0.0	0.0	0.0
5479.0	50°	2082.5	353.2	27.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0
5595.4	52.5°	2079.1	393.6	28.9	13.5	2.7	0.0	0.0	0.0	0.0	0.0
5157.4	55°	1848.3	401.0	31.0	14.8	8.7	0.0	0.0	0.0	0.0	0.0
4432.0	57.5°	1544.9	366.0	35.7	18.2	16.1	0.0	0.0	0.0	0.0	0.0
4318.3	58°	1491.0	349.9	37.0	18.8	17.5	0.0	0.0	0.0	0.0	0.0
3745.7	60°	1221.9	285.3	47.1	23.5	23.5	0.0	0.0	0.0	0.0	0.0
3070.9	62.5°	843.8	249.0	53.8	30.3	24.2	0.0	0.0	0.0	0.0	0.0
2264.1	65°	596.8	224.7	58.5	32.3	19.5	0.0	0.0	0.0	0.0	0.0
1608.8	67.5°	446.1	207.2	64.6	33.0	10.1	0.0	0.0	0.0	0.0	0.0
1009.3	70°	341.8	194.5	79.4	35.0	2.7	0.0	0.0	0.0	0.0	0.0
601.5	72.5°	278.6	179.7	96.2	36.3	0.0	0.0	0.0	0.0	0.0	0.0
360.6	75°	230.8	162.2	92.9	39.7	0.0	0.0	0.0	0.0	0.0	0.0
192.4	77.5°	153.4	125.8	84.8	39.7	0.0	0.0	0.0	0.0	0.0	0.0
68.6	80°	53.8	49.8	65.9	35.0	0.0	0.0	0.0	0.0	0.0	0.0
14.1	82.5°	8.1	6.7	9.4	12.1	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°
39.0	0°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
27.6	2.5°	27.6	27.6	26.9	27.6	27.6	28.9	32.3	37.0	42.4	44.4
23.5	5°	22.9	22.2	21.5	21.5	21.5	23.5	26.2	31.6	37.7	40.4
19.5	7.5°	18.8	18.2	17.5	16.8	16.8	18.2	21.5	27.6	33.6	36.3
16.1	10°	15.5	14.1	13.5	12.8	12.8	14.1	17.5	23.5	30.3	33.0
13.5	12.5°	12.8	10.8	9.4	8.7	8.1	10.1	13.5	18.8	26.2	29.6
10.1	15°	8.7	6.7	4.7	4.0	3.4	5.4	8.7	14.8	22.2	26.2
5.4	17.5°	4.7	2.0	0.7	0.0	0.0	1.3	4.0	10.8	18.2	21.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.5	16.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.1	11.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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	2.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
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°
39.0	0°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
46.4	2.5°	47.8	47.1	45.8	44.4	44.4	44.4	46.4	48.4	50.5	50.5
41.7	5°	44.4	44.4	43.7	42.4	42.4	43.1	45.8	49.1	51.8	52.5
38.4	7.5°	41.0	42.4	41.0	40.4	41.0	41.7	44.4	48.4	52.5	53.8
35.7	10°	39.0	39.7	39.7	39.0	39.0	40.4	43.1	48.4	53.8	55.8
32.3	12.5°	36.3	37.7	37.0	37.0	37.0	38.4	41.7	47.8	55.2	57.9
28.9	15°	33.6	35.7	35.7	35.0	35.0	35.7	40.4	47.1	57.2	61.9
24.9	17.5°	31.0	33.0	33.6	32.3	32.3	33.6	38.4	47.1	58.5	66.6
20.2	20°	25.6	28.9	31.0	28.9	28.9	30.3	35.0	44.4	59.2	71.3
14.8	22.5°	20.2	23.5	26.2	25.6	25.6	26.2	32.3	42.4	59.9	79.4
8.7	25°	14.8	18.2	20.2	21.5	21.5	23.5	29.6	41.0	62.6	96.2
4.0	27.5°	8.7	12.8	15.5	16.8	17.5	20.2	27.6	39.7	67.3	120.4
0.0	30°	4.0	7.4	10.8	13.5	13.5	18.2	25.6	38.4	73.3	155.4
0.0	32.5°	0.0	3.4	5.4	9.4	10.1	14.8	23.5	37.0	82.1	189.1
0.0	35°	0.0	0.0	2.7	7.4	7.4	12.1	21.5	35.7	95.5	214.6
0.0	37.5°	0.0	0.0	0.0	5.4	6.1	10.8	20.9	35.0	98.2	216.7
0.0	40°	0.0	0.0	0.0	4.0	4.7	10.1	20.9	35.7	88.8	211.9
0.0	42.5°	0.0	0.0	0.0	2.7	3.4	10.1	20.9	37.0	80.1	217.3
0.0	45°	0.0	0.0	0.0	2.0	2.7	10.8	20.2	36.3	75.4	245.6
0.0	47.5°	0.0	0.0	0.0	2.7	4.0	10.8	19.5	35.7	76.0	339.1
0.0	50°	0.0	0.0	0.0	3.4	4.7	10.8	20.2	34.3	83.4	521.5
0.0	52.5°	0.0	0.0	0.0	2.7	4.0	12.1	22.2	33.6	90.8	678.2
0.0	55°	0.0	0.0	0.0	0.7	2.0	15.5	24.2	33.6	102.3	717.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	17.5	27.6	35.7	121.1	701.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	17.5	28.3	35.7	122.5	688.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	17.5	31.0	39.7	131.9	613.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	14.8	37.0	49.8	137.3	481.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.1	43.7	54.5	141.3	383.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	11.4	45.1	55.2	143.3	305.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.1	44.4	59.2	150.0	248.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	13.5	40.4	65.3	150.0	220.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.1	37.7	73.3	136.6	190.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	13.5	37.0	85.5	121.8	156.8
0.0	80°	1.3	2.0	2.0	1.3	1.3	11.4	36.3	86.8	103.6	107.7
0.7	82.5°	4.0	5.4	4.7	3.4	3.4	10.1	32.3	72.7	53.8	46.4
4.0	85°	7.4	8.7	8.7	7.4	7.4	9.4	20.2	26.2	18.2	14.8
7.4	87.5°	10.1	11.4	11.4	10.1	10.1	9.4	8.7	8.1	7.4	7.4
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

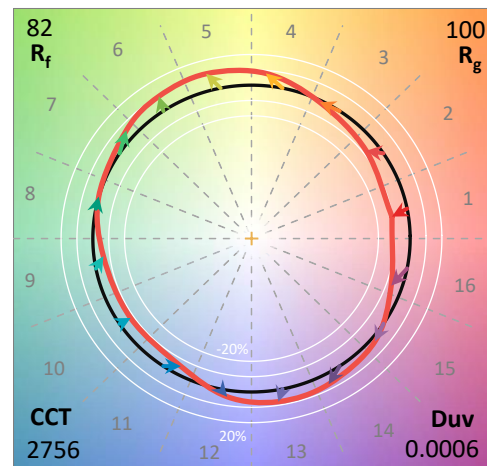
Test Information

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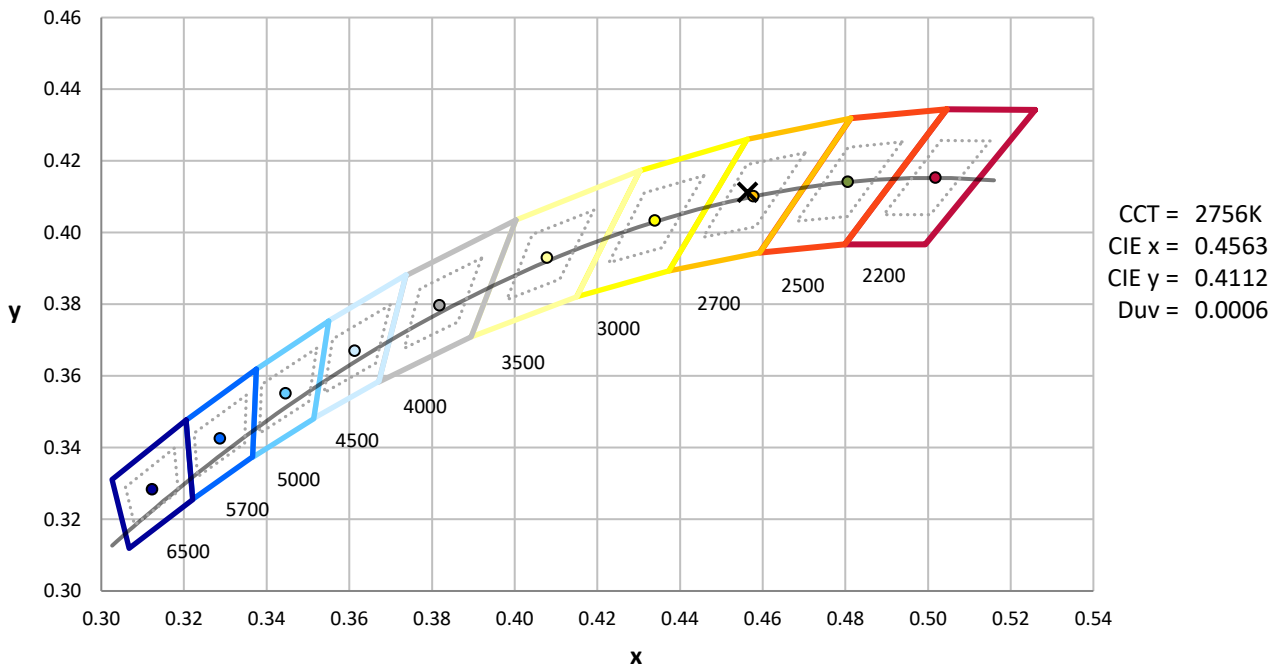
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

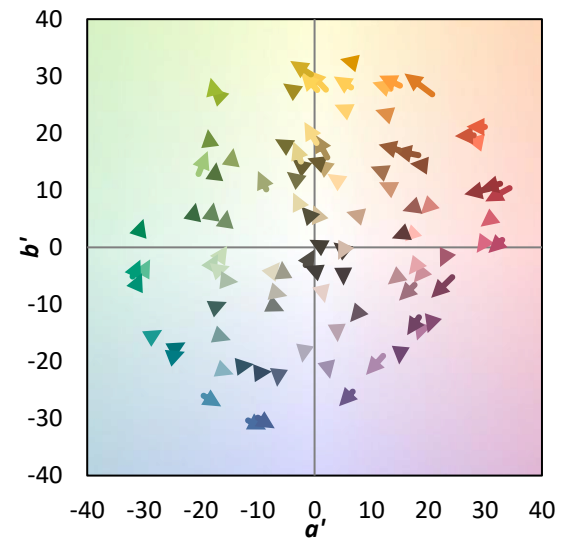
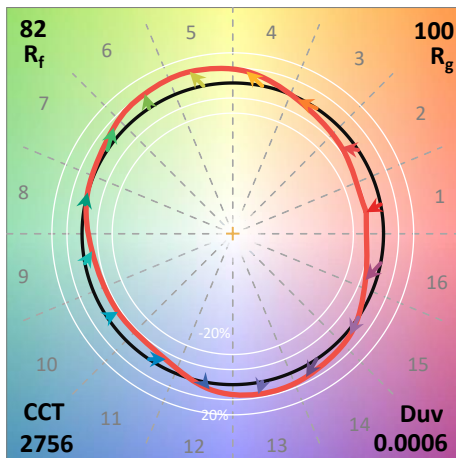
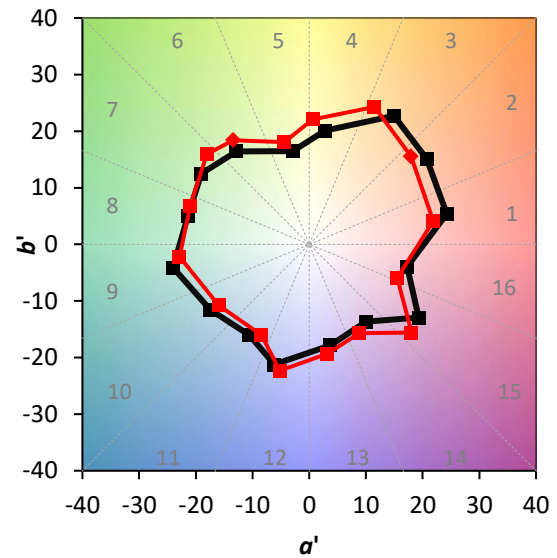
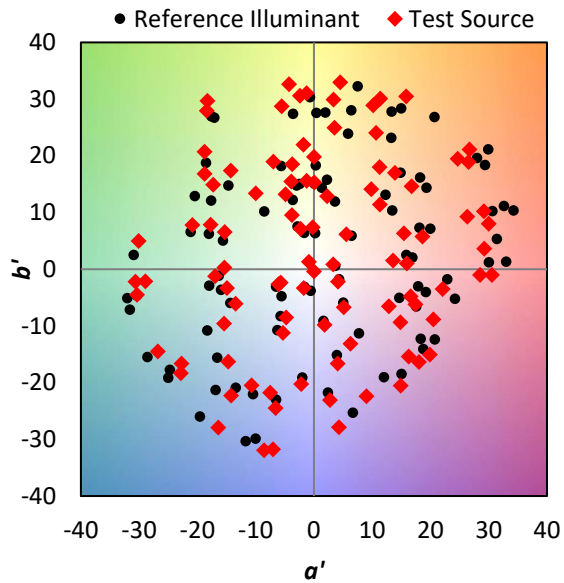
TM-30-18

Summary

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

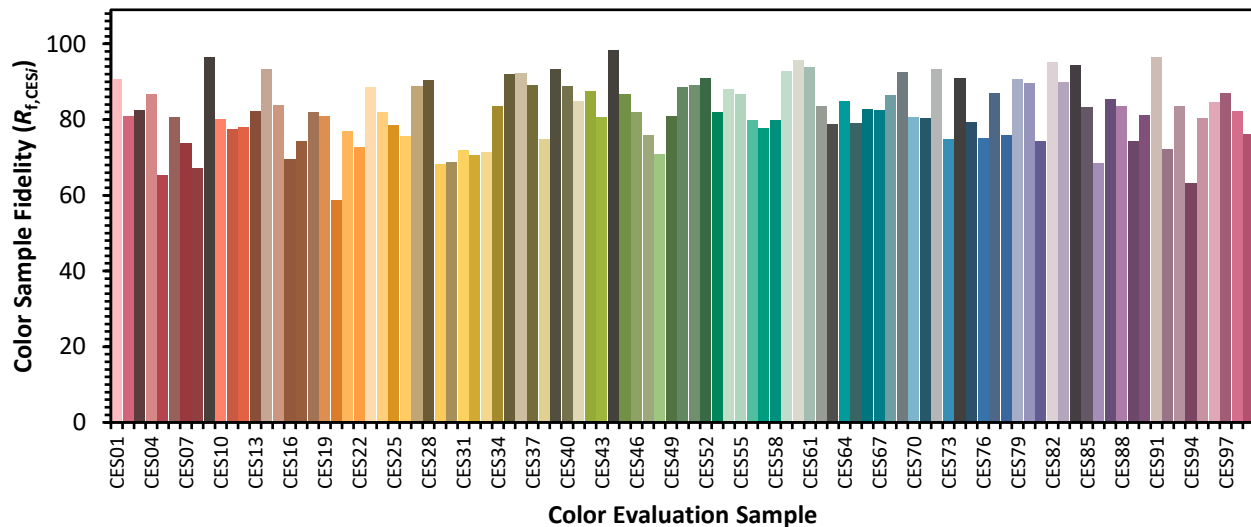


Color Vector Graphics

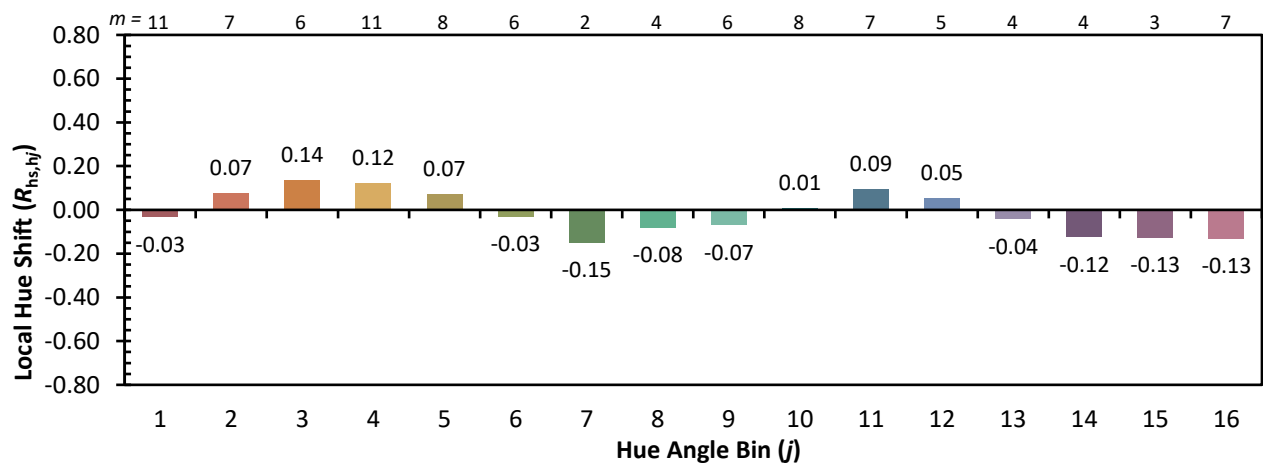


Individual Sample Fidelity Index ($R_{f,i}$)

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)