

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: STREETWORKS

Report Number: P1065362

Luminaire Tested: **GLAN-SA4B-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065362
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

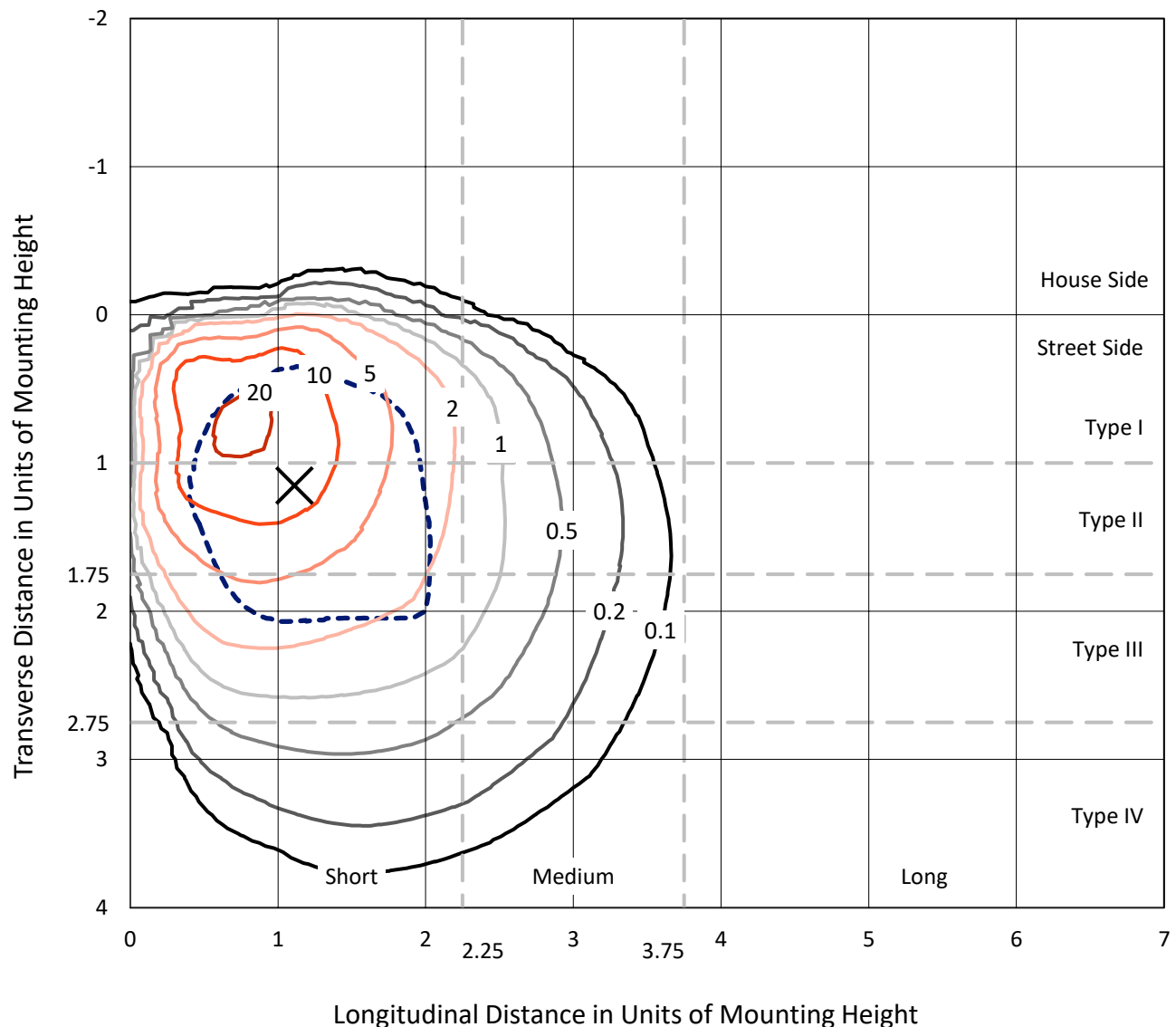
Lumens per Lamp: N/A
Luminaire Lumens: 14136.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
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

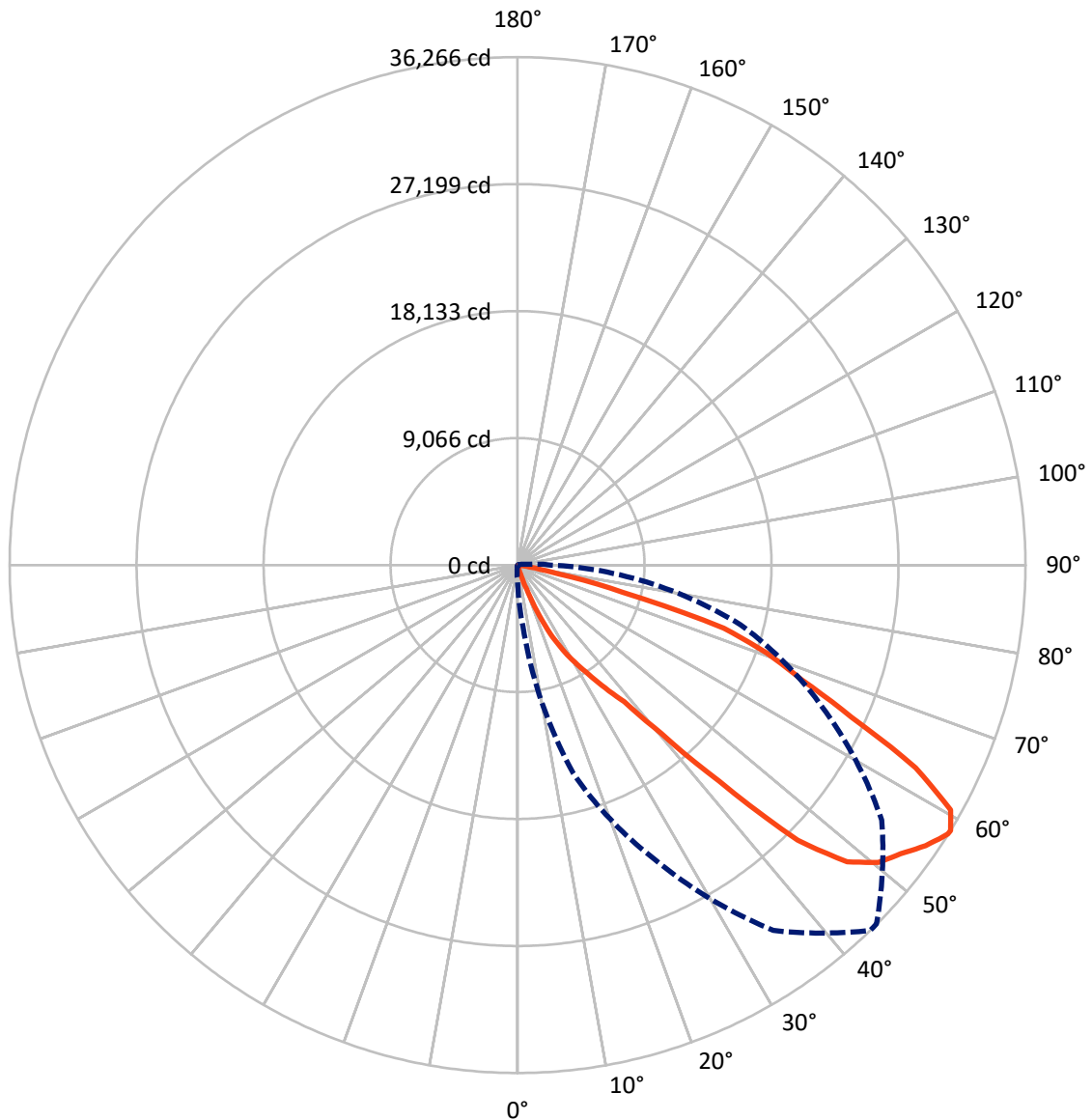
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	96.5	0.0	96.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14040.0	0.0	14040.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	14136.5	0.0	14136.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.0
10°-20°	31.0	0.2
20°-30°	334.9	2.4
30°-40°	990.4	7.0
40°-50°	2951.9	20.9
50°-60°	4684.0	33.1
60°-70°	3907.0	27.6
70°-80°	1205.0	8.5
80°-90°	26.8	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°	14136.5	100.0
0°-180°	14136.5	100.0



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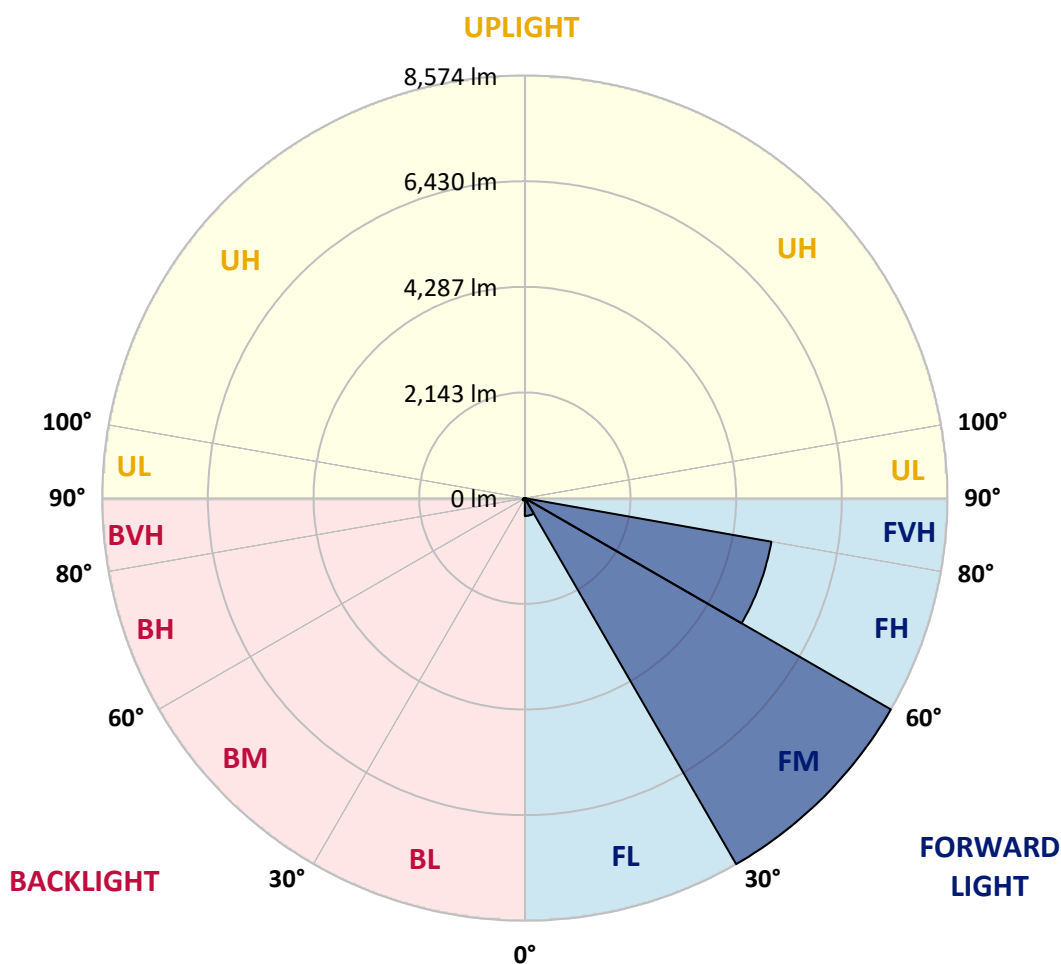
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.0	2.6			
FM	(30°-60°)	8573.5	60.6			
FH	(60°-80°)	5079.0	35.9			G3/7500
FVH	(80°-90°)	25.5	0.2			G1/100
BL	(0°-30°)	9.4	0.1	B0/110		
BM	(30°-60°)	52.8	0.4	B0/220		
BH	(60°-80°)	33.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
2.5°	80.1	80.1	76.9	72.6	68.3	64.1	63.0	60.9	59.8	58.7
5°	83.3	83.3	82.2	79.0	74.8	71.5	71.5	68.3	66.2	64.1
7.5°	85.4	86.5	88.6	87.6	85.4	82.2	82.2	80.1	76.9	71.5
10°	88.6	91.8	96.1	98.2	99.3	99.3	98.2	97.2	91.8	84.4
12.5°	91.8	98.2	108.9	119.6	126.0	134.6	133.5	131.4	117.5	101.4
15°	98.2	107.9	130.3	161.3	209.3	239.2	251.0	240.3	194.4	136.7
17.5°	105.7	121.7	189.0	337.5	553.2	655.7	717.6	667.4	442.1	259.5
20°	113.2	148.4	351.3	874.6	1435.2	1770.6	1863.5	1718.2	1103.1	494.4
22.5°	126.0	208.2	712.3	1807.9	3092.6	3595.6	3690.6	3226.1	2083.5	976.1
25°	152.7	302.2	1228.1	2946.3	4615.4	5464.4	5424.9	4816.2	3379.9	1559.1
27.5°	191.2	440.0	1857.1	4186.1	6074.2	6822.8	6912.5	6159.6	4505.4	2292.8
30°	246.7	609.8	2532.0	5179.3	7243.5	8053.0	8067.9	7289.4	5512.5	2936.7
32.5°	300.1	770.0	3122.5	6139.3	8395.8	9283.2	9349.4	8391.5	6264.3	3607.3
35°	340.7	874.6	3720.5	6983.0	9557.7	10780.4	10776.1	9638.8	7154.9	4206.4
37.5°	343.9	979.3	4262.0	7845.8	11029.2	12398.3	12533.9	11280.2	8231.3	4947.6
40°	336.4	1096.7	4947.6	9191.4	13680.8	15781.3	15900.9	14320.5	10390.6	6216.2
42.5°	344.9	1300.7	6060.3	11676.4	18083.7	21100.5	21331.2	19669.5	14360.0	8804.8
45°	389.8	1684.1	8391.5	15833.7	24359.7	28037.6	27960.7	25567.5	18978.6	12745.3
47.5°	538.2	2622.7	11847.2	19879.9	28370.7	31646.0	31712.2	28787.2	21674.0	15774.9
50°	827.6	4013.1	14750.8	22018.9	30095.4	33381.3	33319.4	29939.5	22698.1	17266.8
52.5°	1076.4	5019.1	16207.4	22769.6	30316.5	34238.8	34234.6	30242.8	22857.2	17394.9
55°	1138.4	5094.9	16219.2	22810.2	30812.0	35361.2	35502.1	30989.2	23063.3	16835.4
57.5°	1113.8	4510.8	15542.1	23045.2	31694.0	36229.4	36236.9	31712.2	23586.6	16492.6
58°	1092.5	4418.9	15405.4	23178.6	31845.7	36265.7	36247.5	31745.3	24012.7	16479.7
60°	972.9	3836.9	14872.6	23519.3	31620.4	35520.3	35350.5	31022.3	23949.7	16348.4
62.5°	764.6	2993.3	14348.2	23125.3	29204.8	31911.9	31982.4	27465.2	21833.1	15582.7
65°	608.7	2230.8	13254.7	20284.7	24049.0	26206.1	26468.8	22333.9	18223.6	13194.9
67.5°	484.8	1612.5	11118.9	16149.8	19029.9	21871.5	22062.7	18751.2	14118.6	10109.8
70°	394.1	1090.3	7675.0	11810.9	15695.9	18891.1	18902.8	15577.4	10538.0	6624.1
72.5°	349.2	755.0	4455.3	8613.6	12727.2	15393.7	15082.9	12640.7	8098.9	3923.4
75°	302.2	500.8	2184.9	5265.8	7716.6	7768.9	7887.5	5863.8	4048.4	1865.6
77.5°	248.8	355.6	860.7	1438.5	2314.1	2962.3	3072.3	2328.0	1346.6	459.2
80°	170.9	168.7	231.7	441.0	662.1	829.8	774.2	599.1	352.4	176.2
82.5°	73.7	80.1	104.7	126.0	102.5	99.3	95.0	60.9	47.0	36.3
85°	23.5	21.4	22.4	22.4	18.2	13.9	13.9	6.4	0.0	0.0
87.5°	11.7	9.6	9.6	8.5	5.3	2.1	1.1	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°
61.9	0°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
57.7	2.5°	56.6	56.6	54.5	52.3	51.3	49.1	48.1	47.0	45.9	44.9
61.9	5°	59.8	58.7	55.5	52.3	49.1	45.9	43.8	41.6	39.5	38.4
68.3	7.5°	65.1	63.0	56.6	51.3	47.0	42.7	40.6	37.4	35.2	32.0
75.8	10°	71.5	67.3	58.7	52.3	45.9	40.6	37.4	34.2	31.0	26.7
86.5	12.5°	80.1	72.6	61.9	51.3	43.8	37.4	34.2	29.9	26.7	23.5
100.4	15°	87.6	78.0	63.0	51.3	41.6	34.2	29.9	25.6	22.4	18.2
126.0	17.5°	98.2	82.2	61.9	48.1	38.4	29.9	25.6	22.4	17.1	10.7
186.9	20°	116.4	85.4	59.8	44.9	33.1	24.6	19.2	15.0	7.5	2.1
280.9	22.5°	145.2	94.0	57.7	40.6	28.8	19.2	12.8	5.3	0.0	0.0
427.2	25°	200.8	108.9	57.7	38.4	25.6	13.9	4.3	0.0	0.0	0.0
606.6	27.5°	267.0	129.2	57.7	33.1	20.3	7.5	0.0	0.0	0.0	0.0
826.6	30°	334.3	151.6	57.7	28.8	16.0	1.1	0.0	0.0	0.0	0.0
1017.7	32.5°	398.3	170.9	58.7	24.6	10.7	0.0	0.0	0.0	0.0	0.0
1282.5	35°	463.5	174.1	57.7	21.4	6.4	0.0	0.0	0.0	0.0	0.0
1607.2	37.5°	546.8	167.7	54.5	19.2	3.2	0.0	0.0	0.0	0.0	0.0
2114.4	40°	672.8	170.9	51.3	18.2	1.1	0.0	0.0	0.0	0.0	0.0
3018.9	42.5°	905.6	184.7	47.0	18.2	0.0	0.0	0.0	0.0	0.0	0.0
4808.7	45°	1565.5	247.8	42.7	19.2	0.0	0.0	0.0	0.0	0.0	0.0
7219.0	47.5°	2589.6	445.3	41.6	19.2	0.0	0.0	0.0	0.0	0.0	0.0
8695.9	50°	3305.1	560.6	43.8	20.3	0.0	0.0	0.0	0.0	0.0	0.0
8880.6	52.5°	3299.8	624.7	45.9	21.4	4.3	0.0	0.0	0.0	0.0	0.0
8185.4	55°	2933.5	636.5	49.1	23.5	13.9	0.0	0.0	0.0	0.0	0.0
7034.2	57.5°	2451.9	580.9	56.6	28.8	25.6	0.0	0.0	0.0	0.0	0.0
6853.7	58°	2366.5	555.3	58.7	29.9	27.8	0.0	0.0	0.0	0.0	0.0
5945.0	60°	1939.3	452.8	74.8	37.4	37.4	0.0	0.0	0.0	0.0	0.0
4873.9	62.5°	1339.1	395.1	85.4	48.1	38.4	0.0	0.0	0.0	0.0	0.0
3593.5	65°	947.2	356.7	92.9	51.3	31.0	0.0	0.0	0.0	0.0	0.0
2553.3	67.5°	708.0	328.9	102.5	52.3	16.0	0.0	0.0	0.0	0.0	0.0
1601.8	70°	542.5	308.6	126.0	55.5	4.3	0.0	0.0	0.0	0.0	0.0
954.7	72.5°	442.1	285.1	152.7	57.7	0.0	0.0	0.0	0.0	0.0	0.0
572.4	75°	366.3	257.4	147.4	63.0	0.0	0.0	0.0	0.0	0.0	0.0
305.4	77.5°	243.5	199.7	134.6	63.0	0.0	0.0	0.0	0.0	0.0	0.0
108.9	80°	85.4	79.0	104.7	55.5	0.0	0.0	0.0	0.0	0.0	0.0
22.4	82.5°	12.8	10.7	15.0	19.2	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°
61.9	0°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
43.8	2.5°	43.8	43.8	42.7	43.8	43.8	45.9	51.3	58.7	67.3	70.5
37.4	5°	36.3	35.2	34.2	34.2	34.2	37.4	41.6	50.2	59.8	64.1
31.0	7.5°	29.9	28.8	27.8	26.7	26.7	28.8	34.2	43.8	53.4	57.7
25.6	10°	24.6	22.4	21.4	20.3	20.3	22.4	27.8	37.4	48.1	52.3
21.4	12.5°	20.3	17.1	15.0	13.9	12.8	16.0	21.4	29.9	41.6	47.0
16.0	15°	13.9	10.7	7.5	6.4	5.3	8.5	13.9	23.5	35.2	41.6
8.5	17.5°	7.5	3.2	1.1	0.0	0.0	2.1	6.4	17.1	28.8	34.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	21.4	26.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.8	18.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
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°
61.9	0°	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
73.7	2.5°	75.8	74.8	72.6	70.5	70.5	70.5	73.7	76.9	80.1	80.1
66.2	5°	70.5	70.5	69.4	67.3	67.3	68.3	72.6	78.0	82.2	83.3
60.9	7.5°	65.1	67.3	65.1	64.1	65.1	66.2	70.5	76.9	83.3	85.4
56.6	10°	61.9	63.0	63.0	61.9	61.9	64.1	68.3	76.9	85.4	88.6
51.3	12.5°	57.7	59.8	58.7	58.7	58.7	60.9	66.2	75.8	87.6	91.8
45.9	15°	53.4	56.6	56.6	55.5	55.5	56.6	64.1	74.8	90.8	98.2
39.5	17.5°	49.1	52.3	53.4	51.3	51.3	53.4	60.9	74.8	92.9	105.7
32.0	20°	40.6	45.9	49.1	45.9	45.9	48.1	55.5	70.5	94.0	113.2
23.5	22.5°	32.0	37.4	41.6	40.6	40.6	41.6	51.3	67.3	95.0	126.0
13.9	25°	23.5	28.8	32.0	34.2	34.2	37.4	47.0	65.1	99.3	152.7
6.4	27.5°	13.9	20.3	24.6	26.7	27.8	32.0	43.8	63.0	106.8	191.2
0.0	30°	6.4	11.7	17.1	21.4	21.4	28.8	40.6	60.9	116.4	246.7
0.0	32.5°	0.0	5.3	8.5	15.0	16.0	23.5	37.4	58.7	130.3	300.1
0.0	35°	0.0	0.0	4.3	11.7	11.7	19.2	34.2	56.6	151.6	340.7
0.0	37.5°	0.0	0.0	0.0	8.5	9.6	17.1	33.1	55.5	155.9	343.9
0.0	40°	0.0	0.0	0.0	6.4	7.5	16.0	33.1	56.6	141.0	336.4
0.0	42.5°	0.0	0.0	0.0	4.3	5.3	16.0	33.1	58.7	127.1	344.9
0.0	45°	0.0	0.0	0.0	3.2	4.3	17.1	32.0	57.7	119.6	389.8
0.0	47.5°	0.0	0.0	0.0	4.3	6.4	17.1	31.0	56.6	120.7	538.2
0.0	50°	0.0	0.0	0.0	5.3	7.5	17.1	32.0	54.5	132.4	827.6
0.0	52.5°	0.0	0.0	0.0	4.3	6.4	19.2	35.2	53.4	144.2	1076.4
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.6	38.4	53.4	162.3	1138.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.8	43.8	56.6	192.2	1113.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.8	44.9	56.6	194.4	1092.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.8	49.1	63.0	209.3	972.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.5	58.7	79.0	217.9	764.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.2	69.4	86.5	224.3	608.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	18.2	71.5	87.6	227.5	484.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.2	70.5	94.0	238.1	394.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.4	64.1	103.6	238.1	349.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.4	59.8	116.4	216.8	302.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.4	58.7	135.6	193.3	248.8
0.0	80°	2.1	3.2	3.2	2.1	2.1	18.2	57.7	137.8	164.5	170.9
1.1	82.5°	6.4	8.5	7.5	5.3	5.3	16.0	51.3	115.3	85.4	73.7
6.4	85°	11.7	13.9	13.9	11.7	11.7	15.0	32.0	41.6	28.8	23.5
11.7	87.5°	16.0	18.2	18.2	16.0	16.0	15.0	13.9	12.8	11.7	11.7
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

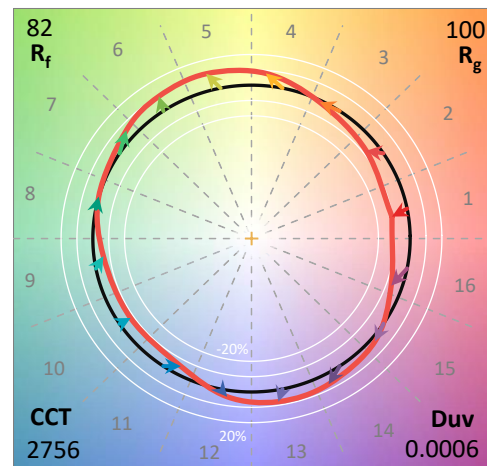
Test Information

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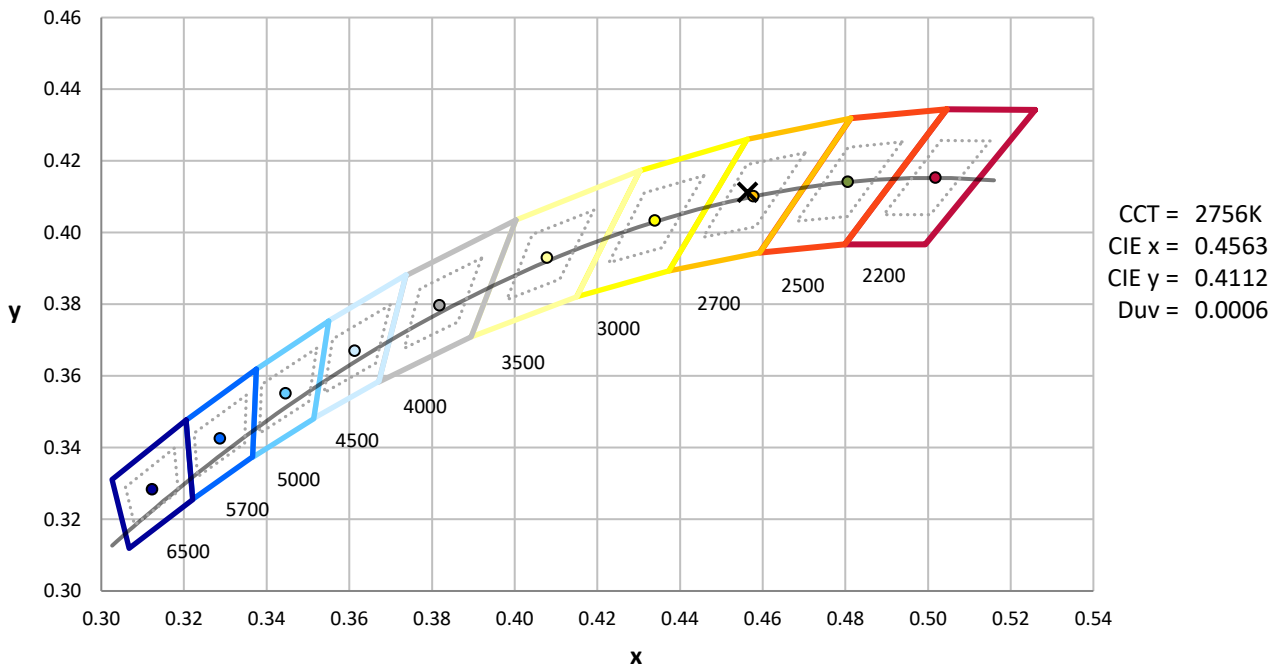
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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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



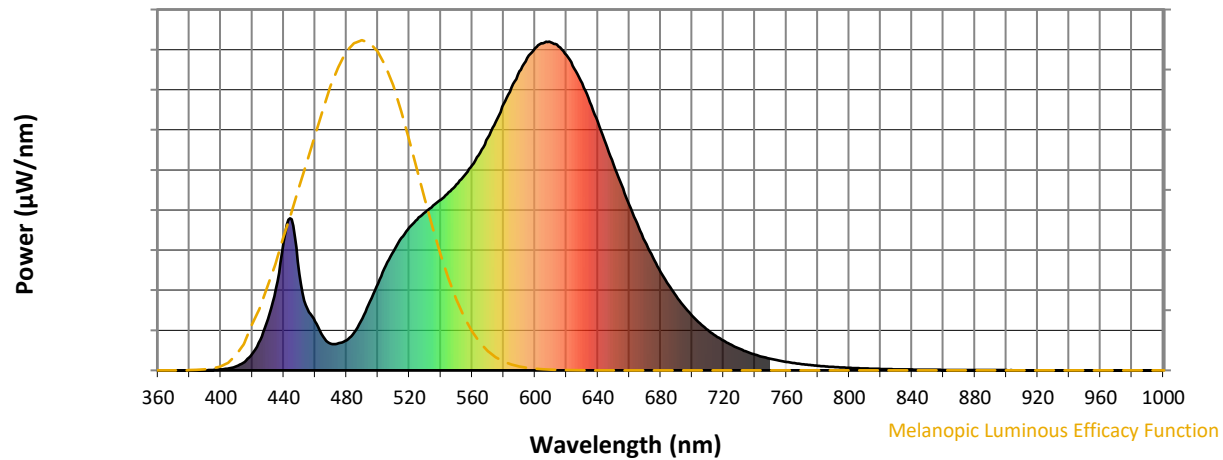
Scotopic Lumens: NR

S/P: 1.2

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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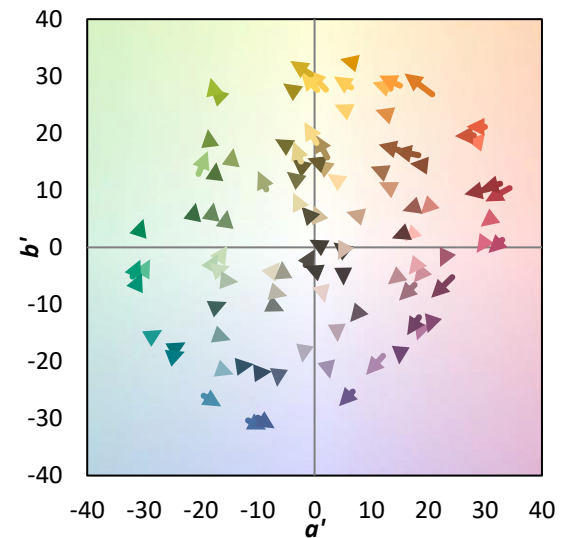
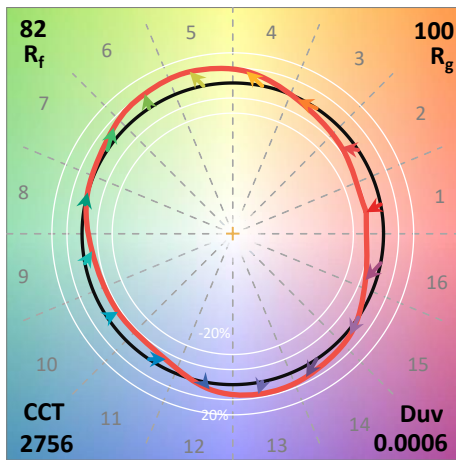
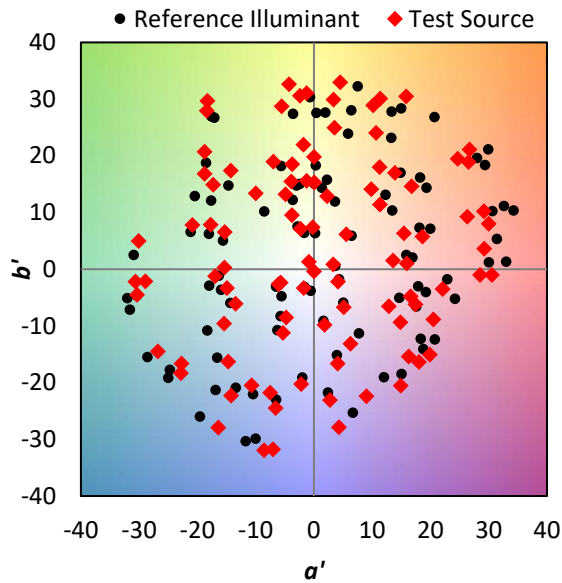
TM-30-18

Summary

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

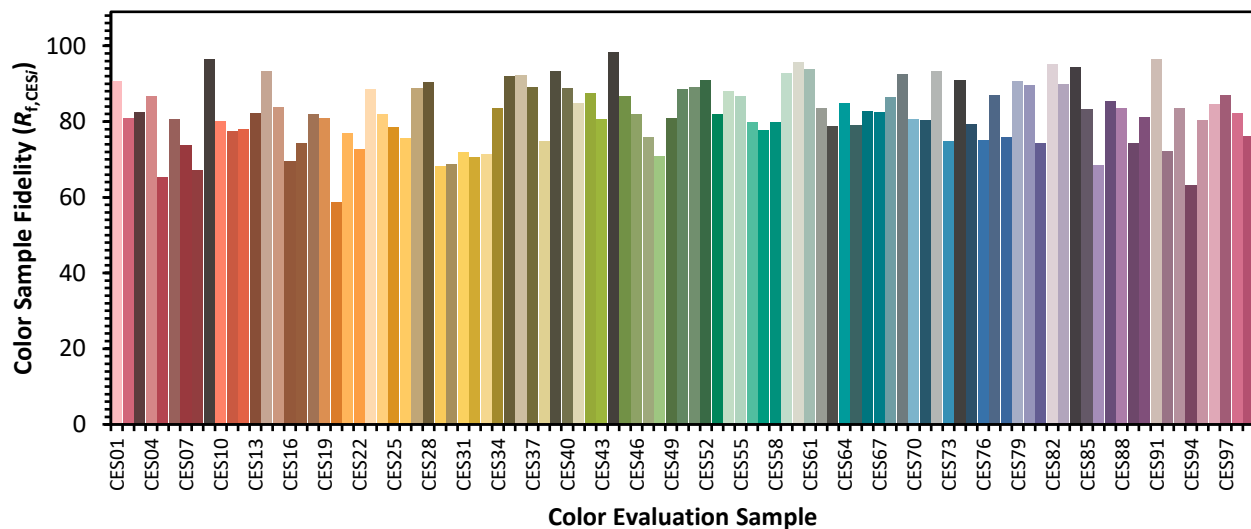


Color Vector Graphics

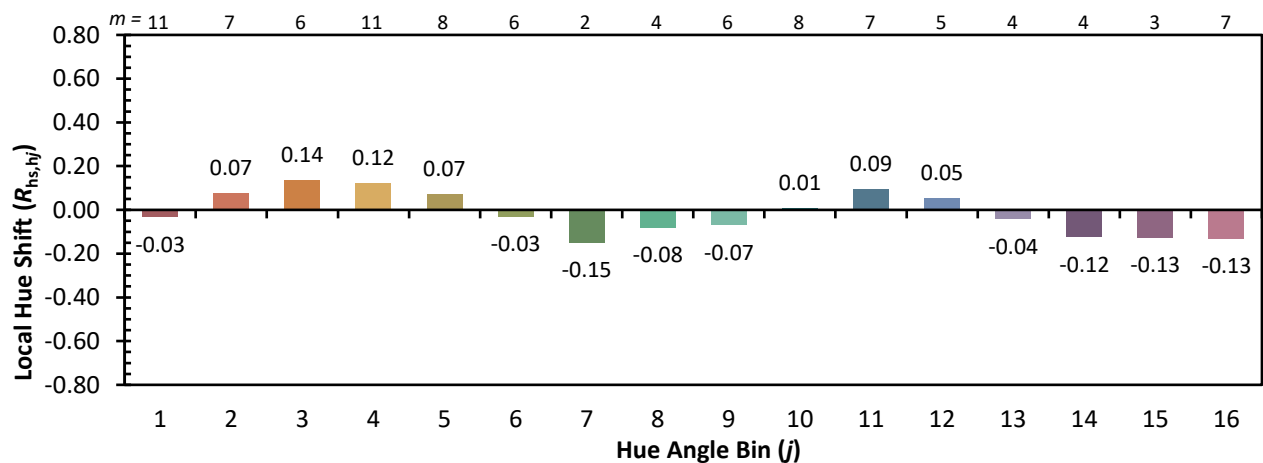


Individual Sample Fidelity Index ($R_{f,i}$)

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)