

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: P1065354

Luminaire Tested: **GLAN-SA2B-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065354
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 7183.5 lumens
Efficiency: N/A
Efficacy: 98.7 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): 72.8
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

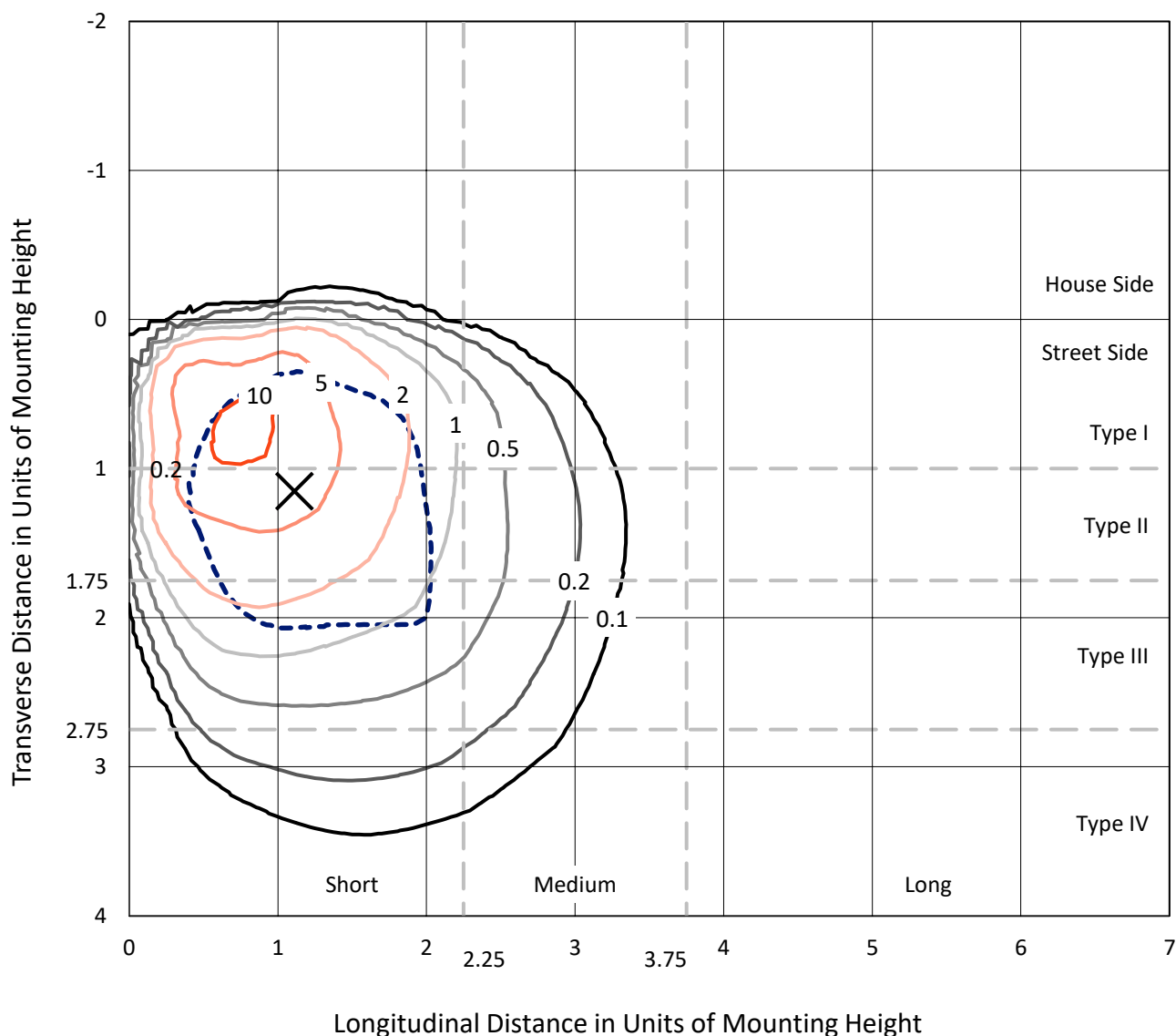
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

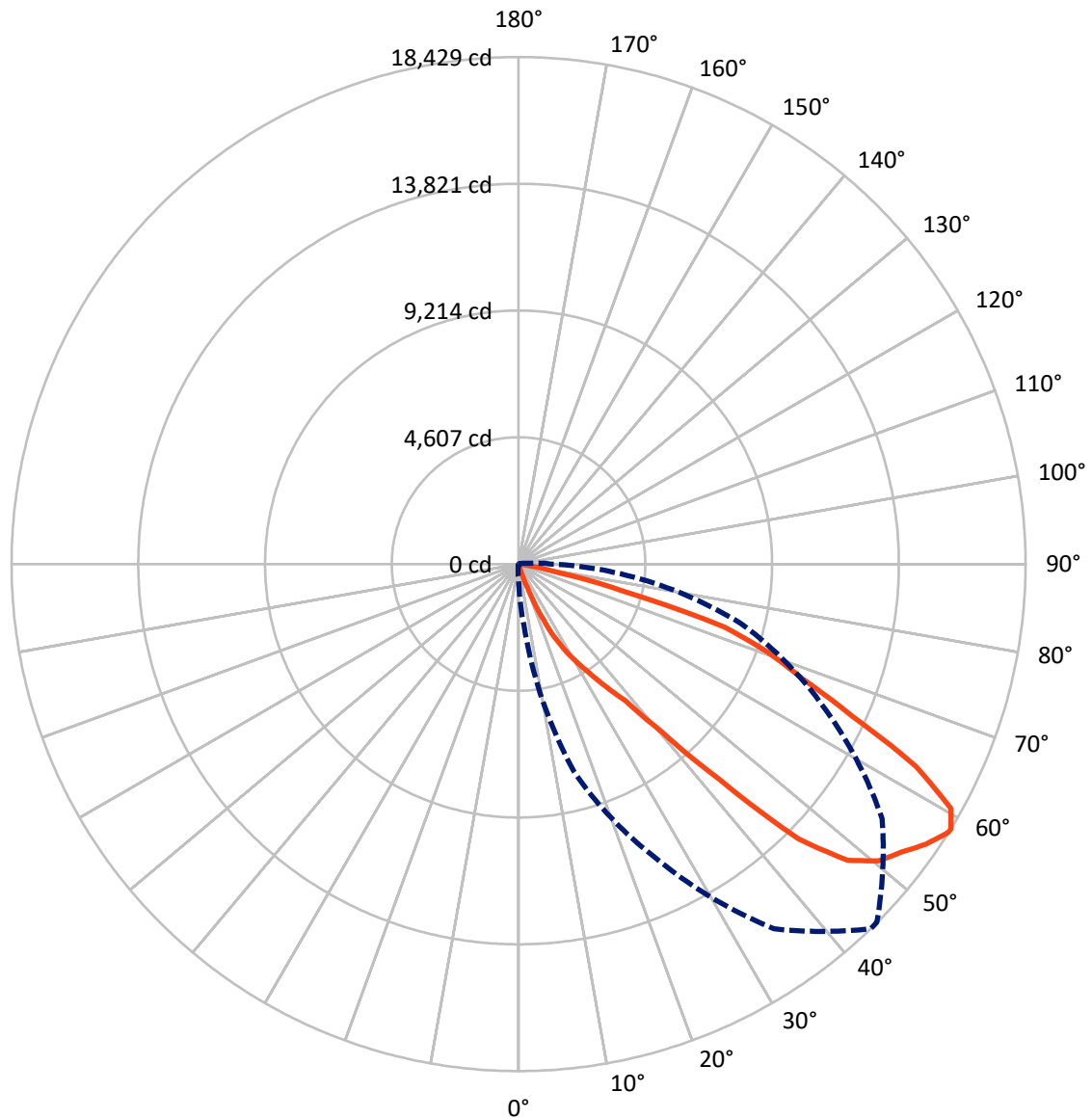


Based on 20 foot mounting height. Maximum calculated value = 12.5 fc

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	49.0	0.0	49.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7134.5	0.0	7134.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	7183.5	0.0	7183.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.0
10°-20°	15.8	0.2
20°-30°	170.2	2.4
30°-40°	503.3	7.0
40°-50°	1500.0	20.9
50°-60°	2380.2	33.1
60°-70°	1985.4	27.6
70°-80°	612.3	8.5
80°-90°	13.6	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°	7183.5	100.0
0°-180°	7183.5	100.0



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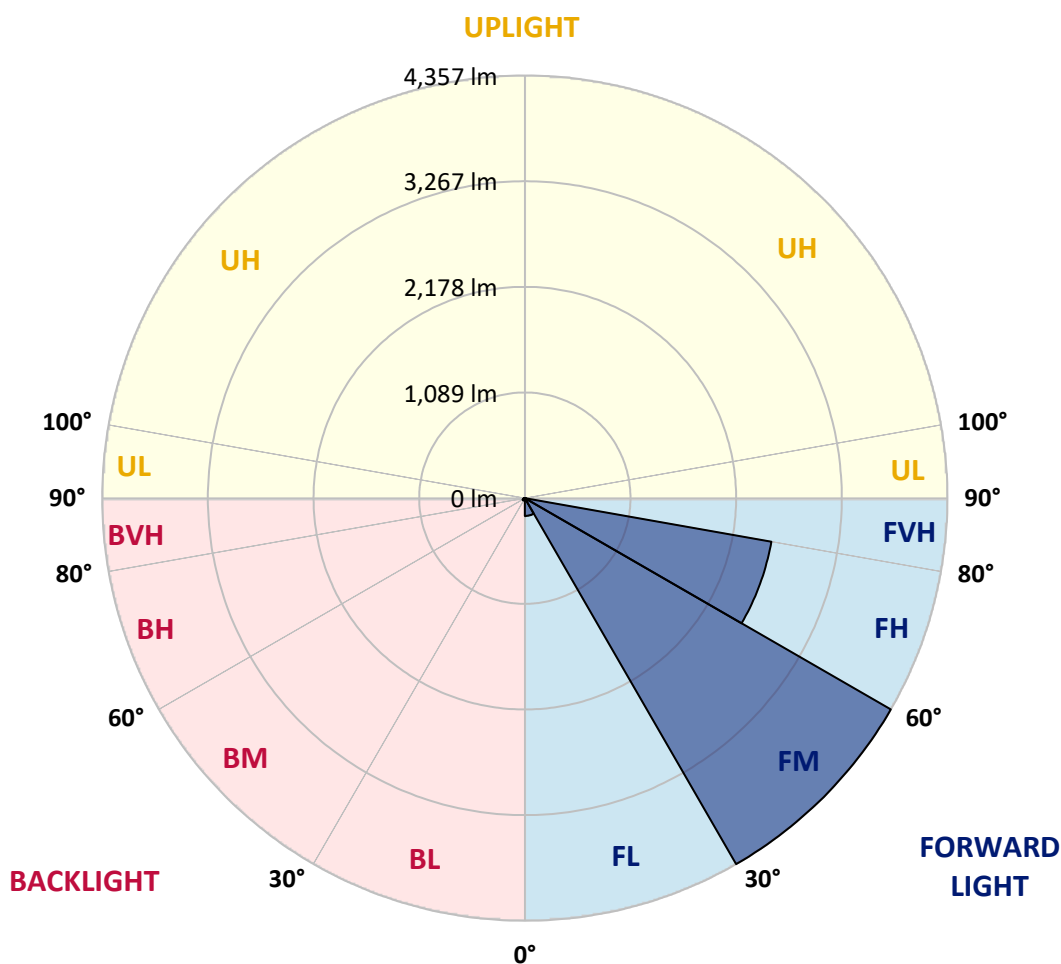
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.9	2.6			
FM	(30°-60°)	4356.7	60.6			
FH	(60°-80°)	2580.9	35.9			G2/5000
FVH	(80°-90°)	12.9	0.2			G1/100
BL	(0°-30°)	4.8	0.1	B0/110		
BM	(30°-60°)	26.8	0.4	B0/220		
BH	(60°-80°)	16.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
2.5°	40.7	40.7	39.1	36.9	34.7	32.6	32.0	30.9	30.4	29.8
5°	42.3	42.3	41.8	40.2	38.0	36.4	36.4	34.7	33.6	32.6
7.5°	43.4	44.0	45.0	44.5	43.4	41.8	41.8	40.7	39.1	36.4
10°	45.0	46.7	48.8	49.9	50.5	50.5	49.9	49.4	46.7	42.9
12.5°	46.7	49.9	55.4	60.8	64.0	68.4	67.8	66.7	59.7	51.6
15°	49.9	54.8	66.2	81.9	106.4	121.6	127.5	122.1	98.8	69.5
17.5°	53.7	61.9	96.0	171.5	281.1	333.2	364.7	339.2	224.7	131.9
20°	57.5	75.4	178.5	444.4	729.3	899.7	946.9	873.1	560.6	251.2
22.5°	64.0	105.8	361.9	918.7	1571.5	1827.1	1875.4	1639.4	1058.7	496.0
25°	77.6	153.6	624.1	1497.2	2345.3	2776.8	2756.7	2447.4	1717.5	792.3
27.5°	97.1	223.6	943.7	2127.2	3086.6	3467.0	3512.6	3130.0	2289.5	1165.1
30°	125.4	309.9	1286.6	2631.9	3680.8	4092.1	4099.7	3704.2	2801.2	1492.3
32.5°	152.5	391.3	1586.7	3119.7	4266.3	4717.3	4750.9	4264.2	3183.2	1833.1
35°	173.1	444.4	1890.6	3548.4	4856.7	5478.1	5475.9	4898.0	3635.8	2137.5
37.5°	174.7	497.6	2165.7	3986.9	5604.5	6300.2	6369.1	5732.0	4182.8	2514.1
40°	170.9	557.3	2514.1	4670.6	6951.9	8019.3	8080.1	7277.0	5280.0	3158.8
42.5°	175.3	661.0	3079.6	5933.4	9189.3	10722.3	10839.5	9995.1	7297.1	4474.2
45°	198.1	855.8	4264.2	8045.9	12378.5	14247.4	14208.3	12992.2	9644.0	6476.6
47.5°	273.5	1332.8	6020.2	10102.0	14416.7	16081.0	16114.6	14628.3	11013.7	8016.1
50°	420.6	2039.3	7495.7	11189.0	15293.1	16962.8	16931.3	15213.8	11534.1	8774.2
52.5°	547.0	2550.5	8235.8	11570.4	15405.4	17398.5	17396.4	15367.9	11614.9	8839.3
55°	578.5	2589.0	8241.8	11591.1	15657.2	17968.9	18040.5	15747.3	11719.7	8554.9
57.5°	566.0	2292.2	7897.8	11710.5	16105.4	18410.0	18413.8	16114.6	11985.6	8380.7
58°	555.1	2245.5	7828.3	11778.3	16182.5	18428.5	18419.3	16131.4	12202.1	8374.2
60°	494.4	1949.8	7557.5	11951.4	16068.0	18049.7	17963.4	15764.1	12170.1	8307.5
62.5°	388.5	1521.1	7291.1	11751.2	14840.5	16216.1	16251.9	13956.5	11094.5	7918.4
65°	309.3	1133.6	6735.4	10307.7	12220.5	13316.7	13450.2	11349.0	9260.4	6705.0
67.5°	246.4	819.4	5650.1	8206.5	9670.1	11114.1	11211.2	9528.4	7174.4	5137.3
70°	200.2	554.0	3900.0	6001.7	7975.9	9599.5	9605.5	7915.7	5354.9	3366.1
72.5°	177.4	383.7	2263.9	4377.0	6467.3	7822.3	7664.4	6423.4	4115.5	1993.7
75°	153.6	254.5	1110.3	2675.8	3921.2	3947.8	4008.0	2979.7	2057.2	948.0
77.5°	126.4	180.7	437.4	731.0	1175.9	1505.3	1561.2	1183.0	684.3	233.3
80°	86.8	85.7	117.8	224.1	336.4	421.6	393.4	304.4	179.1	89.5
82.5°	37.4	40.7	53.2	64.0	52.1	50.5	48.3	30.9	23.9	18.5
85°	11.9	10.9	11.4	11.4	9.2	7.1	7.1	3.3	0.0	0.0
87.5°	6.0	4.9	4.9	4.3	2.7	1.1	0.5	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°
31.5	0°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
29.3	2.5°	28.8	28.8	27.7	26.6	26.0	25.0	24.4	23.9	23.3	22.8
31.5	5°	30.4	29.8	28.2	26.6	25.0	23.3	22.2	21.2	20.1	19.5
34.7	7.5°	33.1	32.0	28.8	26.0	23.9	21.7	20.6	19.0	17.9	16.3
38.5	10°	36.4	34.2	29.8	26.6	23.3	20.6	19.0	17.4	15.7	13.6
44.0	12.5°	40.7	36.9	31.5	26.0	22.2	19.0	17.4	15.2	13.6	11.9
51.0	15°	44.5	39.6	32.0	26.0	21.2	17.4	15.2	13.0	11.4	9.2
64.0	17.5°	49.9	41.8	31.5	24.4	19.5	15.2	13.0	11.4	8.7	5.4
95.0	20°	59.1	43.4	30.4	22.8	16.8	12.5	9.8	7.6	3.8	1.1
142.7	22.5°	73.8	47.8	29.3	20.6	14.7	9.8	6.5	2.7	0.0	0.0
217.1	25°	102.0	55.4	29.3	19.5	13.0	7.1	2.2	0.0	0.0	0.0
308.2	27.5°	135.7	65.7	29.3	16.8	10.3	3.8	0.0	0.0	0.0	0.0
420.0	30°	169.9	77.1	29.3	14.7	8.1	0.5	0.0	0.0	0.0	0.0
517.1	32.5°	202.4	86.8	29.8	12.5	5.4	0.0	0.0	0.0	0.0	0.0
651.7	35°	235.5	88.5	29.3	10.9	3.3	0.0	0.0	0.0	0.0	0.0
816.7	37.5°	277.8	85.2	27.7	9.8	1.6	0.0	0.0	0.0	0.0	0.0
1074.5	40°	341.9	86.8	26.0	9.2	0.5	0.0	0.0	0.0	0.0	0.0
1534.1	42.5°	460.2	93.9	23.9	9.2	0.0	0.0	0.0	0.0	0.0	0.0
2443.6	45°	795.5	125.9	21.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0
3668.3	47.5°	1315.9	226.3	21.2	9.8	0.0	0.0	0.0	0.0	0.0	0.0
4418.8	50°	1679.5	284.9	22.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0
4512.7	52.5°	1676.8	317.5	23.3	10.9	2.2	0.0	0.0	0.0	0.0	0.0
4159.4	55°	1490.7	323.4	25.0	11.9	7.1	0.0	0.0	0.0	0.0	0.0
3574.5	57.5°	1245.9	295.2	28.8	14.7	13.0	0.0	0.0	0.0	0.0	0.0
3482.7	58°	1202.5	282.2	29.8	15.2	14.1	0.0	0.0	0.0	0.0	0.0
3020.9	60°	985.5	230.1	38.0	19.0	19.0	0.0	0.0	0.0	0.0	0.0
2476.7	62.5°	680.5	200.8	43.4	24.4	19.5	0.0	0.0	0.0	0.0	0.0
1826.0	65°	481.3	181.2	47.2	26.0	15.7	0.0	0.0	0.0	0.0	0.0
1297.5	67.5°	359.8	167.1	52.1	26.6	8.1	0.0	0.0	0.0	0.0	0.0
814.0	70°	275.7	156.8	64.0	28.2	2.2	0.0	0.0	0.0	0.0	0.0
485.1	72.5°	224.7	144.9	77.6	29.3	0.0	0.0	0.0	0.0	0.0	0.0
290.9	75°	186.1	130.8	74.9	32.0	0.0	0.0	0.0	0.0	0.0	0.0
155.2	77.5°	123.7	101.5	68.4	32.0	0.0	0.0	0.0	0.0	0.0	0.0
55.4	80°	43.4	40.2	53.2	28.2	0.0	0.0	0.0	0.0	0.0	0.0
11.4	82.5°	6.5	5.4	7.6	9.8	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°
31.5	0°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
22.2	2.5°	22.2	22.2	21.7	22.2	22.2	23.3	26.0	29.8	34.2	35.8
19.0	5°	18.5	17.9	17.4	17.4	17.4	19.0	21.2	25.5	30.4	32.6
15.7	7.5°	15.2	14.7	14.1	13.6	13.6	14.7	17.4	22.2	27.1	29.3
13.0	10°	12.5	11.4	10.9	10.3	10.3	11.4	14.1	19.0	24.4	26.6
10.9	12.5°	10.3	8.7	7.6	7.1	6.5	8.1	10.9	15.2	21.2	23.9
8.1	15°	7.1	5.4	3.8	3.3	2.7	4.3	7.1	11.9	17.9	21.2
4.3	17.5°	3.8	1.6	0.5	0.0	0.0	1.1	3.3	8.7	14.7	17.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.9	13.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	6.5	9.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	4.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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	1.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3
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°
31.5	0°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
37.4	2.5°	38.5	38.0	36.9	35.8	35.8	35.8	37.4	39.1	40.7	40.7
33.6	5°	35.8	35.8	35.3	34.2	34.2	34.7	36.9	39.6	41.8	42.3
30.9	7.5°	33.1	34.2	33.1	32.6	33.1	33.6	35.8	39.1	42.3	43.4
28.8	10°	31.5	32.0	32.0	31.5	31.5	32.6	34.7	39.1	43.4	45.0
26.0	12.5°	29.3	30.4	29.8	29.8	29.8	30.9	33.6	38.5	44.5	46.7
23.3	15°	27.1	28.8	28.8	28.2	28.2	28.8	32.6	38.0	46.1	49.9
20.1	17.5°	25.0	26.6	27.1	26.0	26.0	27.1	30.9	38.0	47.2	53.7
16.3	20°	20.6	23.3	25.0	23.3	23.3	24.4	28.2	35.8	47.8	57.5
11.9	22.5°	16.3	19.0	21.2	20.6	20.6	21.2	26.0	34.2	48.3	64.0
7.1	25°	11.9	14.7	16.3	17.4	17.4	19.0	23.9	33.1	50.5	77.6
3.3	27.5°	7.1	10.3	12.5	13.6	14.1	16.3	22.2	32.0	54.3	97.1
0.0	30°	3.3	6.0	8.7	10.9	10.9	14.7	20.6	30.9	59.1	125.4
0.0	32.5°	0.0	2.7	4.3	7.6	8.1	11.9	19.0	29.8	66.2	152.5
0.0	35°	0.0	0.0	2.2	6.0	6.0	9.8	17.4	28.8	77.1	173.1
0.0	37.5°	0.0	0.0	0.0	4.3	4.9	8.7	16.8	28.2	79.2	174.7
0.0	40°	0.0	0.0	0.0	3.3	3.8	8.1	16.8	28.8	71.6	170.9
0.0	42.5°	0.0	0.0	0.0	2.2	2.7	8.1	16.8	29.8	64.6	175.3
0.0	45°	0.0	0.0	0.0	1.6	2.2	8.7	16.3	29.3	60.8	198.1
0.0	47.5°	0.0	0.0	0.0	2.2	3.3	8.7	15.7	28.8	61.3	273.5
0.0	50°	0.0	0.0	0.0	2.7	3.8	8.7	16.3	27.7	67.3	420.6
0.0	52.5°	0.0	0.0	0.0	2.2	3.3	9.8	17.9	27.1	73.3	547.0
0.0	55°	0.0	0.0	0.0	0.5	1.6	12.5	19.5	27.1	82.5	578.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	14.1	22.2	28.8	97.7	566.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	14.1	22.8	28.8	98.8	555.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	14.1	25.0	32.0	106.4	494.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	11.9	29.8	40.2	110.7	388.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	9.8	35.3	44.0	114.0	309.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	9.2	36.4	44.5	115.6	246.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	9.8	35.8	47.8	121.0	200.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	10.9	32.6	52.6	121.0	177.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	11.4	30.4	59.1	110.2	153.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	10.9	29.8	68.9	98.2	126.4
0.0	80°	1.1	1.6	1.6	1.1	1.1	9.2	29.3	70.0	83.6	86.8
0.5	82.5°	3.3	4.3	3.8	2.7	2.7	8.1	26.0	58.6	43.4	37.4
3.3	85°	6.0	7.1	7.1	6.0	6.0	7.6	16.3	21.2	14.7	11.9
6.0	87.5°	8.1	9.2	9.2	8.1	8.1	7.6	7.1	6.5	6.0	6.0
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

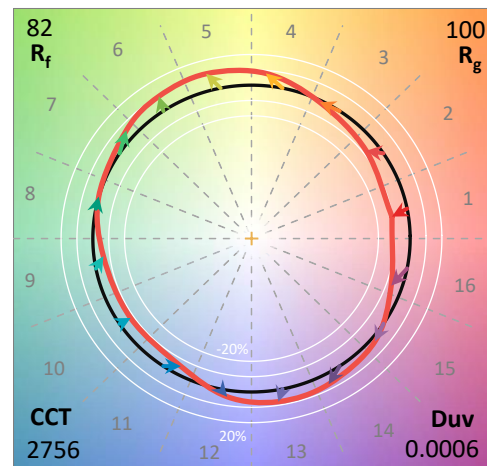
Test Information

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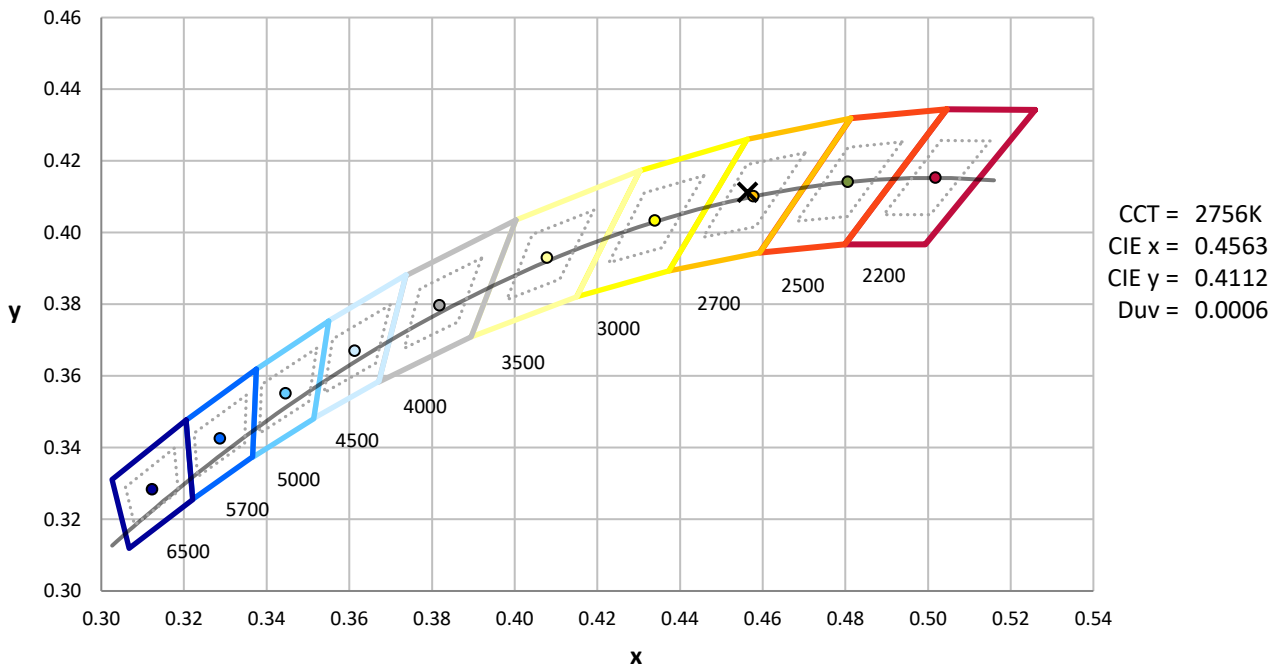
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

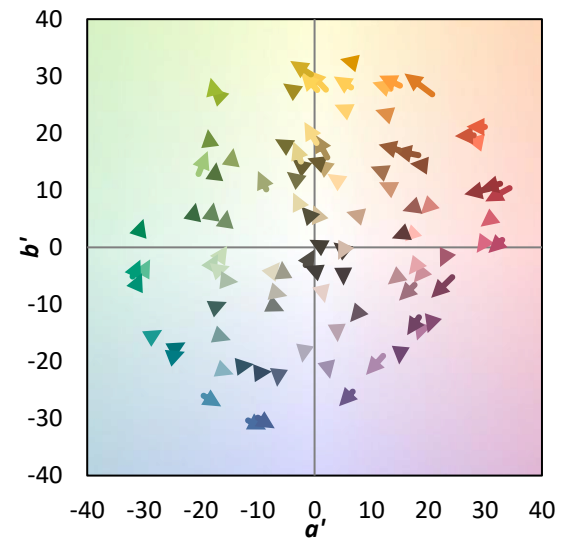
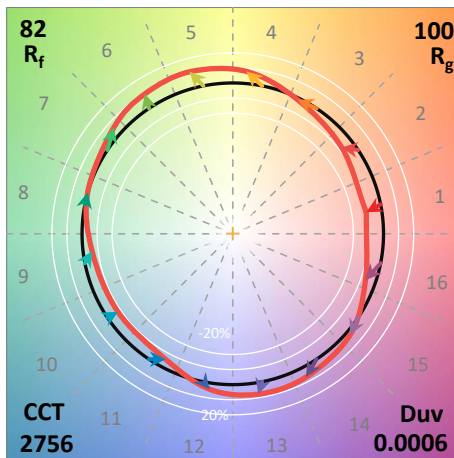
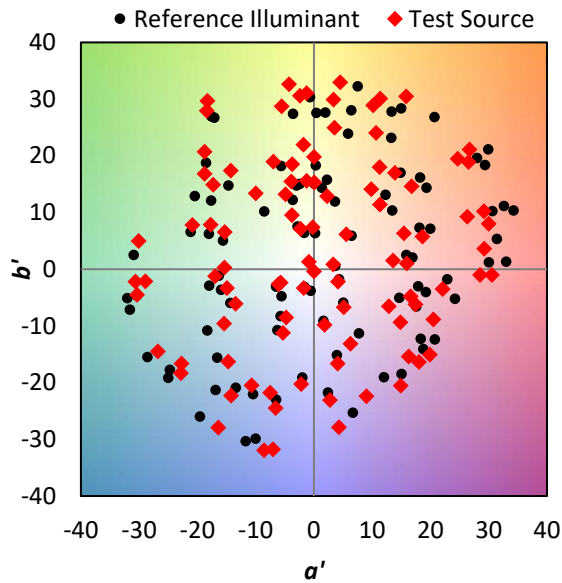
TM-30-18

Summary

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

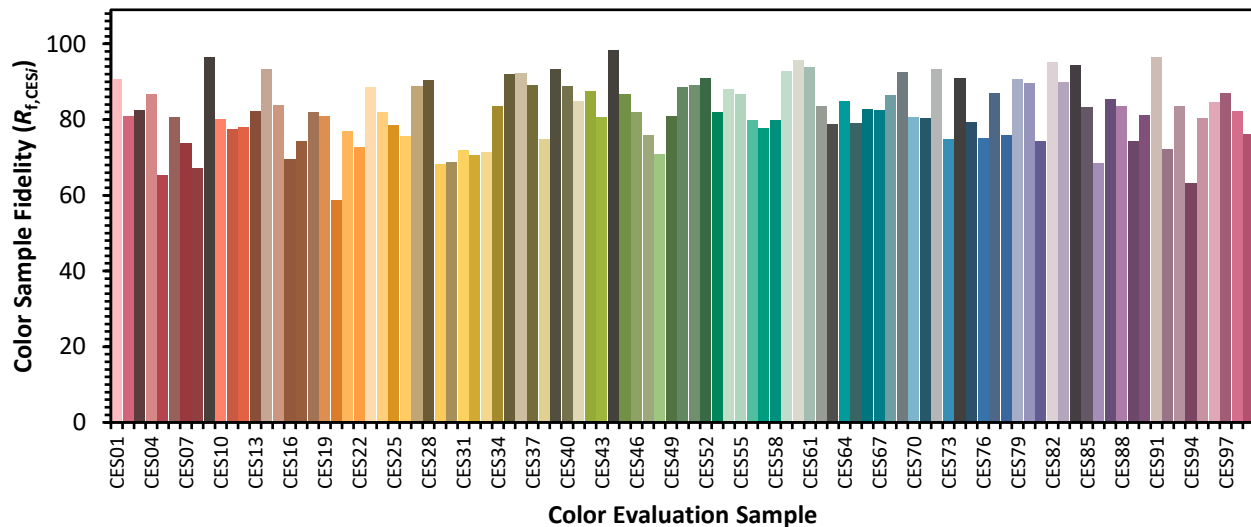


Color Vector Graphics

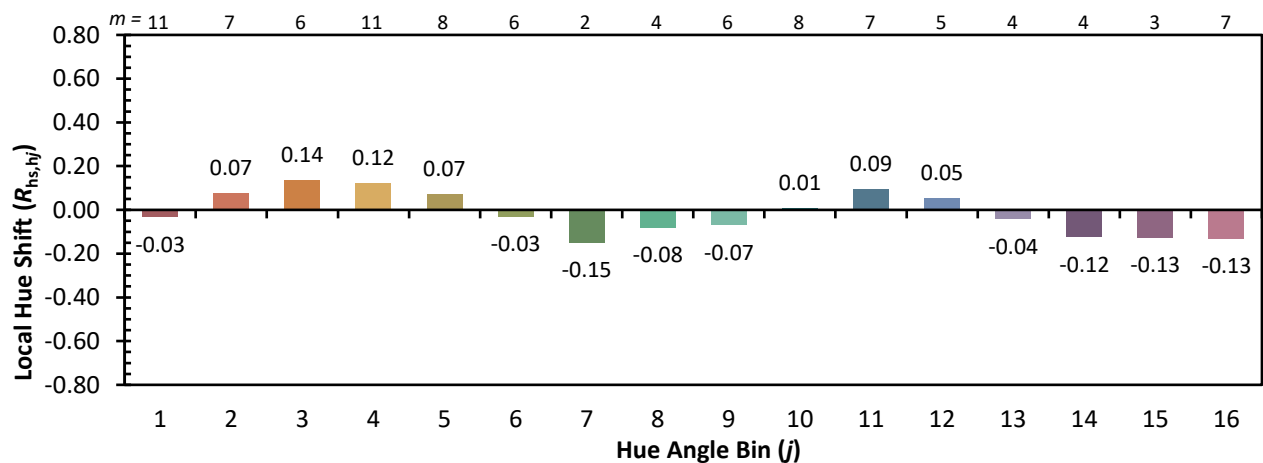


Individual Sample Fidelity Index ($R_{f,i}$)

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)