

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: P1065370

Luminaire Tested: **GLAN-SA6B-827-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065370
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20935.4 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

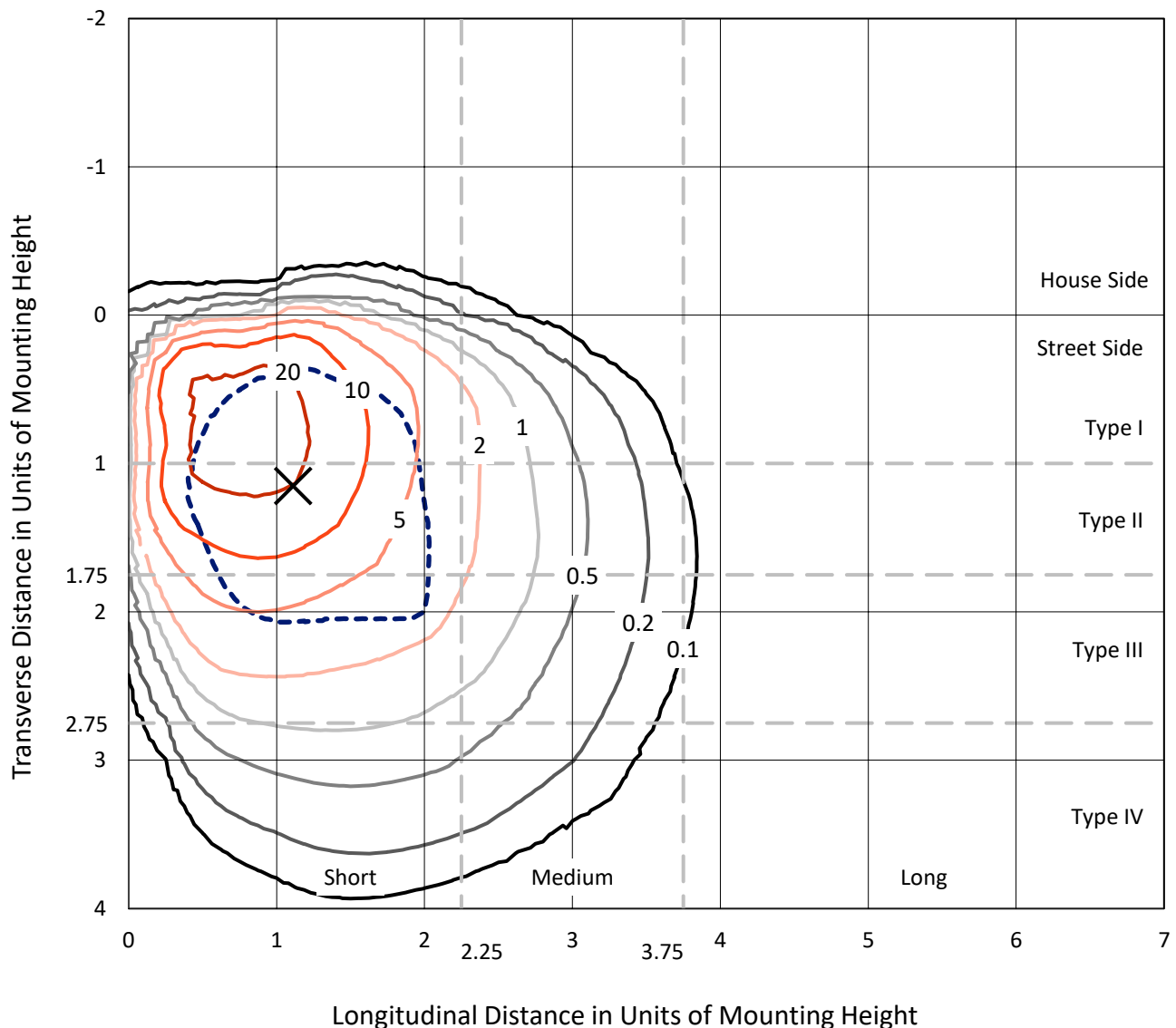
Input Watts (W): 213.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

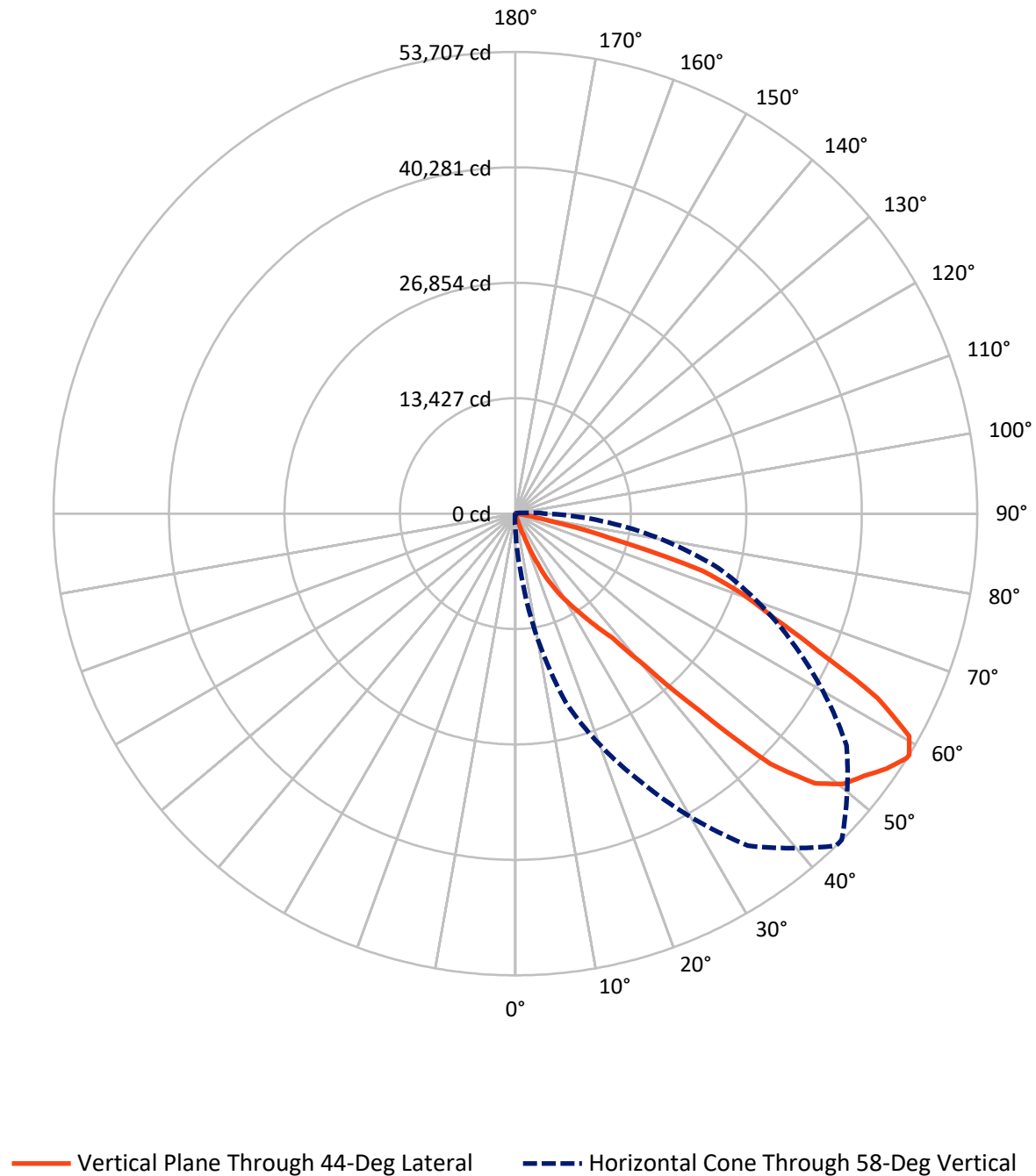
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.4 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	142.9	0.0	142.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20792.4	0.0	20792.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	20935.4	0.0	20935.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.0
10°-20°	45.9	0.2
20°-30°	496.0	2.4
30°-40°	1466.7	7.0
40°-50°	4371.6	20.9
50°-60°	6936.7	33.1
60°-70°	5786.1	27.6
70°-80°	1784.5	8.5
80°-90°	39.6	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°	20935.4	100.0
0°-180°	20935.4	100.0



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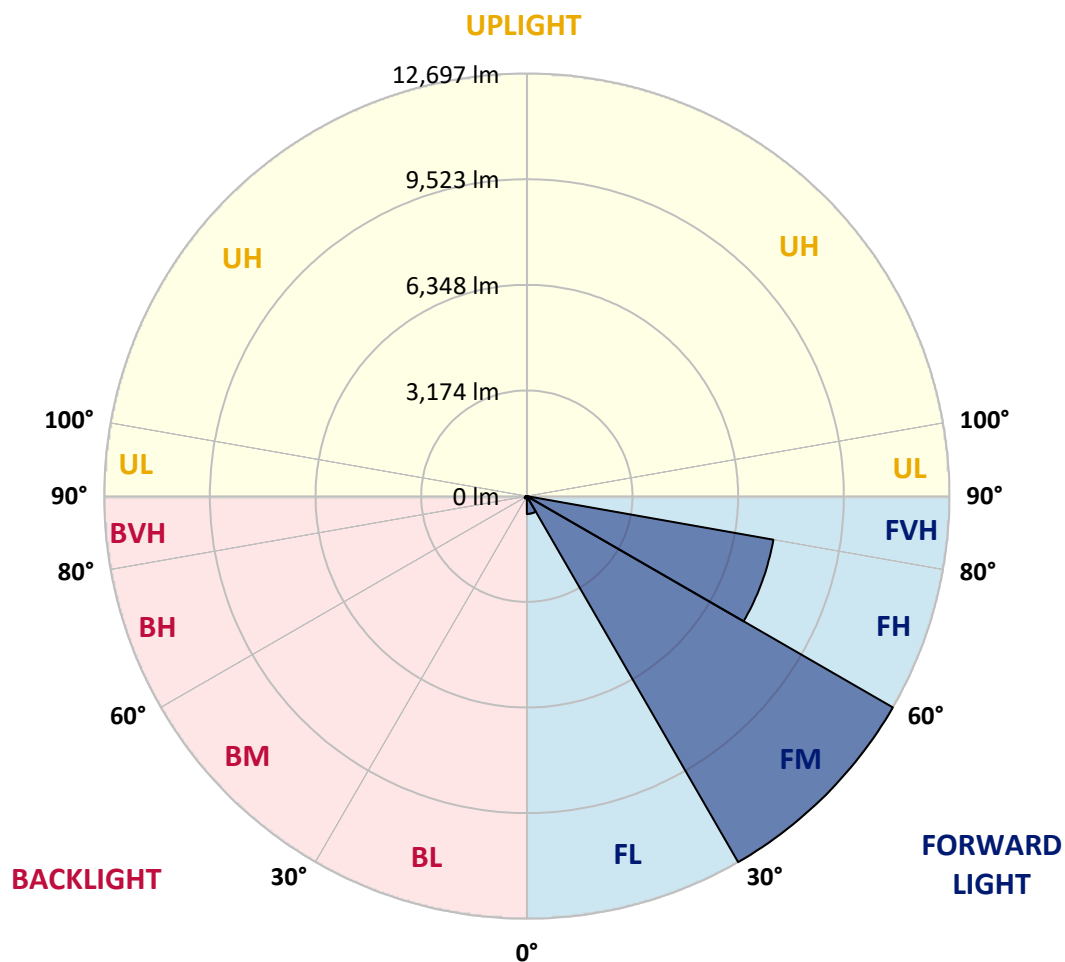
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.1	2.6			
FM	(30°-60°)	12696.9	60.6			
FH	(60°-80°)	7521.8	35.9			G4/12000
FVH	(80°-90°)	37.7	0.2			G1/100
BL	(0°-30°)	14.0	0.1	B0/110		
BM	(30°-60°)	78.2	0.4	B0/220		
BH	(60°-80°)	48.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.9	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2.5°	118.6	118.6	113.9	107.5	101.2	94.9	93.3	90.1	88.6	87.0
5°	123.4	123.4	121.8	117.0	110.7	106.0	106.0	101.2	98.1	94.9
7.5°	126.5	128.1	131.3	129.7	126.5	121.8	121.8	118.6	113.9	106.0
10°	131.3	136.0	142.3	145.5	147.1	147.1	145.5	143.9	136.0	124.9
12.5°	136.0	145.5	161.3	177.1	186.6	199.3	197.7	194.5	174.0	150.2
15°	145.5	159.7	192.9	238.8	310.0	354.3	371.7	355.8	287.8	202.4
17.5°	156.6	180.3	279.9	499.8	819.2	971.0	1062.8	988.4	654.7	384.3
20°	167.6	219.8	520.3	1295.2	2125.5	2622.1	2759.7	2544.6	1633.7	732.2
22.5°	186.6	308.4	1054.9	2677.5	4580.0	5324.9	5465.6	4777.7	3085.5	1445.5
25°	226.2	447.6	1818.7	4363.3	6835.2	8092.5	8034.0	7132.5	5005.4	2309.0
27.5°	283.1	651.6	2750.2	6199.4	8995.5	10104.1	10237.0	9122.0	6672.3	3395.5
30°	365.3	903.0	3749.7	7670.2	10727.2	11926.0	11948.2	10795.2	8163.7	4349.1
32.5°	444.4	1140.3	4624.3	9092.0	12433.7	13747.9	13845.9	12427.3	9277.0	5342.3
35°	504.5	1295.2	5509.9	10341.4	14154.3	15965.1	15958.8	14274.5	10596.0	6229.5
37.5°	509.2	1450.2	6311.7	11619.2	16333.6	18361.1	18561.9	16705.3	12190.1	7327.0
40°	498.2	1624.2	7327.0	13611.9	20260.5	23371.3	23548.4	21207.8	15387.9	9205.9
42.5°	510.8	1926.3	8975.0	17292.0	26780.9	31248.7	31590.3	29129.5	21266.3	13039.4
45°	577.2	2494.0	12427.3	23448.8	36075.4	41522.0	41408.1	37864.0	28106.2	18875.1
47.5°	797.1	3884.1	17545.0	29441.0	42015.4	46865.9	46963.9	42632.2	32097.9	23361.8
50°	1225.7	5943.2	21845.1	32608.7	44569.5	49435.8	49344.1	44338.6	33614.6	25571.1
52.5°	1594.1	7433.0	24002.3	33720.5	44896.9	50705.7	50699.4	44787.8	33850.2	25760.9
55°	1685.9	7545.3	24019.7	33780.6	45630.7	52367.9	52576.6	45893.3	34155.4	24932.2
57.5°	1649.5	6680.2	23017.0	34128.6	46937.0	53653.6	53664.7	46963.9	34930.4	24424.5
58°	1617.9	6544.2	22814.6	34326.2	47161.6	53707.4	53680.5	47012.9	35561.4	24405.6
60°	1440.7	5682.3	22025.4	34830.7	46827.9	52603.5	52352.1	45942.3	35468.1	24211.0
62.5°	1132.3	4432.9	21248.9	34247.2	43250.6	47259.7	47364.0	40674.3	32333.6	23077.1
65°	901.4	3303.7	19629.5	30040.4	35615.2	38809.8	39198.8	33075.3	26988.1	19540.9
67.5°	718.0	2388.0	16466.5	23916.9	28182.1	32390.5	32673.6	27769.4	20908.9	14972.0
70°	583.6	1614.7	11366.2	17491.3	23244.7	27976.6	27994.0	23069.2	15606.1	9810.0
72.5°	517.1	1118.1	6598.0	12756.3	18848.2	22797.2	22337.0	18720.1	11994.0	5810.4
75°	447.6	741.7	3235.7	7798.3	11427.8	11505.3	11680.9	8684.0	5995.4	2762.9
77.5°	368.5	526.6	1274.7	2130.3	3427.1	4387.1	4549.9	3447.6	1994.3	680.0
80°	253.0	249.9	343.2	653.2	980.5	1228.8	1146.6	887.2	521.9	260.9
82.5°	109.1	118.6	155.0	186.6	151.8	147.1	140.8	90.1	69.6	53.8
85°	34.8	31.6	33.2	33.2	26.9	20.6	20.6	9.5	0.0	0.0
87.5°	17.4	14.2	14.2	12.7	7.9	3.2	1.6	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°
91.7	0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
85.4	2.5°	83.8	83.8	80.7	77.5	75.9	72.7	71.2	69.6	68.0	66.4
91.7	5°	88.6	87.0	82.2	77.5	72.7	68.0	64.8	61.7	58.5	56.9
101.2	7.5°	96.5	93.3	83.8	75.9	69.6	63.3	60.1	55.4	52.2	47.4
112.3	10°	106.0	99.6	87.0	77.5	68.0	60.1	55.4	50.6	45.9	39.5
128.1	12.5°	118.6	107.5	91.7	75.9	64.8	55.4	50.6	44.3	39.5	34.8
148.7	15°	129.7	115.4	93.3	75.9	61.7	50.6	44.3	38.0	33.2	26.9
186.6	17.5°	145.5	121.8	91.7	71.2	56.9	44.3	38.0	33.2	25.3	15.8
276.8	20°	172.4	126.5	88.6	66.4	49.0	36.4	28.5	22.1	11.1	3.2
415.9	22.5°	215.1	139.2	85.4	60.1	42.7	28.5	19.0	7.9	0.0	0.0
632.6	25°	297.3	161.3	85.4	56.9	38.0	20.6	6.3	0.0	0.0	0.0
898.3	27.5°	395.4	191.4	85.4	49.0	30.0	11.1	0.0	0.0	0.0	0.0
1224.1	30°	495.0	224.6	85.4	42.7	23.7	1.6	0.0	0.0	0.0	0.0
1507.2	32.5°	589.9	253.0	87.0	36.4	15.8	0.0	0.0	0.0	0.0	0.0
1899.4	35°	686.4	257.8	85.4	31.6	9.5	0.0	0.0	0.0	0.0	0.0
2380.1	37.5°	809.7	248.3	80.7	28.5	4.7	0.0	0.0	0.0	0.0	0.0
3131.3	40°	996.3	253.0	75.9	26.9	1.6	0.0	0.0	0.0	0.0	0.0
4470.9	42.5°	1341.1	273.6	69.6	26.9	0.0	0.0	0.0	0.0	0.0	0.0
7121.4	45°	2318.5	366.9	63.3	28.5	0.0	0.0	0.0	0.0	0.0	0.0
10690.9	47.5°	3835.1	659.5	61.7	28.5	0.0	0.0	0.0	0.0	0.0	0.0
12878.1	50°	4894.7	830.3	64.8	30.0	0.0	0.0	0.0	0.0	0.0	0.0
13151.7	52.5°	4886.8	925.2	68.0	31.6	6.3	0.0	0.0	0.0	0.0	0.0
12122.1	55°	4344.4	942.6	72.7	34.8	20.6	0.0	0.0	0.0	0.0	0.0
10417.3	57.5°	3631.1	860.3	83.8	42.7	38.0	0.0	0.0	0.0	0.0	0.0
10150.0	58°	3504.6	822.4	87.0	44.3	41.1	0.0	0.0	0.0	0.0	0.0
8804.2	60°	2872.0	670.6	110.7	55.4	55.4	0.0	0.0	0.0	0.0	0.0
7217.9	62.5°	1983.2	585.2	126.5	71.2	56.9	0.0	0.0	0.0	0.0	0.0
5321.7	65°	1402.8	528.2	137.6	75.9	45.9	0.0	0.0	0.0	0.0	0.0
3781.3	67.5°	1048.5	487.1	151.8	77.5	23.7	0.0	0.0	0.0	0.0	0.0
2372.2	70°	803.4	457.1	186.6	82.2	6.3	0.0	0.0	0.0	0.0	0.0
1413.9	72.5°	654.7	422.3	226.2	85.4	0.0	0.0	0.0	0.0	0.0	0.0
847.7	75°	542.5	381.1	218.2	93.3	0.0	0.0	0.0	0.0	0.0	0.0
452.3	77.5°	360.6	295.7	199.3	93.3	0.0	0.0	0.0	0.0	0.0	0.0
161.3	80°	126.5	117.0	155.0	82.2	0.0	0.0	0.0	0.0	0.0	0.0
33.2	82.5°	19.0	15.8	22.1	28.5	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°
91.7	0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
64.8	2.5°	64.8	64.8	63.3	64.8	64.8	68.0	75.9	87.0	99.6	104.4
55.4	5°	53.8	52.2	50.6	50.6	50.6	55.4	61.7	74.3	88.6	94.9
45.9	7.5°	44.3	42.7	41.1	39.5	39.5	42.7	50.6	64.8	79.1	85.4
38.0	10°	36.4	33.2	31.6	30.0	30.0	33.2	41.1	55.4	71.2	77.5
31.6	12.5°	30.0	25.3	22.1	20.6	19.0	23.7	31.6	44.3	61.7	69.6
23.7	15°	20.6	15.8	11.1	9.5	7.9	12.7	20.6	34.8	52.2	61.7
12.7	17.5°	11.1	4.7	1.6	0.0	0.0	3.2	9.5	25.3	42.7	50.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	31.6	39.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	19.0	26.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	14.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
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	4.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.7
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°
91.7	0°	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
109.1	2.5°	112.3	110.7	107.5	104.4	104.4	104.4	109.1	113.9	118.6	118.6
98.1	5°	104.4	104.4	102.8	99.6	99.6	101.2	107.5	115.4	121.8	123.4
90.1	7.5°	96.5	99.6	96.5	94.9	96.5	98.1	104.4	113.9	123.4	126.5
83.8	10°	91.7	93.3	93.3	91.7	91.7	94.9	101.2	113.9	126.5	131.3
75.9	12.5°	85.4	88.6	87.0	87.0	87.0	90.1	98.1	112.3	129.7	136.0
68.0	15°	79.1	83.8	83.8	82.2	82.2	83.8	94.9	110.7	134.4	145.5
58.5	17.5°	72.7	77.5	79.1	75.9	75.9	79.1	90.1	110.7	137.6	156.6
47.4	20°	60.1	68.0	72.7	68.0	68.0	71.2	82.2	104.4	139.2	167.6
34.8	22.5°	47.4	55.4	61.7	60.1	60.1	61.7	75.9	99.6	140.8	186.6
20.6	25°	34.8	42.7	47.4	50.6	50.6	55.4	69.6	96.5	147.1	226.2
9.5	27.5°	20.6	30.0	36.4	39.5	41.1	47.4	64.8	93.3	158.1	283.1
0.0	30°	9.5	17.4	25.3	31.6	31.6	42.7	60.1	90.1	172.4	365.3
0.0	32.5°	0.0	7.9	12.7	22.1	23.7	34.8	55.4	87.0	192.9	444.4
0.0	35°	0.0	0.0	6.3	17.4	17.4	28.5	50.6	83.8	224.6	504.5
0.0	37.5°	0.0	0.0	0.0	12.7	14.2	25.3	49.0	82.2	230.9	509.2
0.0	40°	0.0	0.0	0.0	9.5	11.1	23.7	49.0	83.8	208.8	498.2
0.0	42.5°	0.0	0.0	0.0	6.3	7.9	23.7	49.0	87.0	188.2	510.8
0.0	45°	0.0	0.0	0.0	4.7	6.3	25.3	47.4	85.4	177.1	577.2
0.0	47.5°	0.0	0.0	0.0	6.3	9.5	25.3	45.9	83.8	178.7	797.1
0.0	50°	0.0	0.0	0.0	7.9	11.1	25.3	47.4	80.7	196.1	1225.7
0.0	52.5°	0.0	0.0	0.0	6.3	9.5	28.5	52.2	79.1	213.5	1594.1
0.0	55°	0.0	0.0	0.0	1.6	4.7	36.4	56.9	79.1	240.4	1685.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	41.1	64.8	83.8	284.7	1649.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	41.1	66.4	83.8	287.8	1617.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	41.1	72.7	93.3	310.0	1440.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	34.8	87.0	117.0	322.6	1132.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	28.5	102.8	128.1	332.1	901.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	26.9	106.0	129.7	336.9	718.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	28.5	104.4	139.2	352.7	583.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	31.6	94.9	153.4	352.7	517.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	33.2	88.6	172.4	321.0	447.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	31.6	87.0	200.8	286.2	368.5
0.0	80°	3.2	4.7	4.7	3.2	3.2	26.9	85.4	204.0	243.5	253.0
1.6	82.5°	9.5	12.7	11.1	7.9	7.9	23.7	75.9	170.8	126.5	109.1
9.5	85°	17.4	20.6	20.6	17.4	17.4	22.1	47.4	61.7	42.7	34.8
17.4	87.5°	23.7	26.9	26.9	23.7	23.7	22.1	20.6	19.0	17.4	17.4
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



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

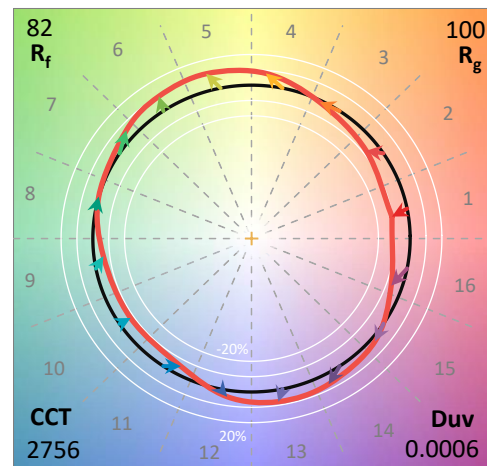
Test Information

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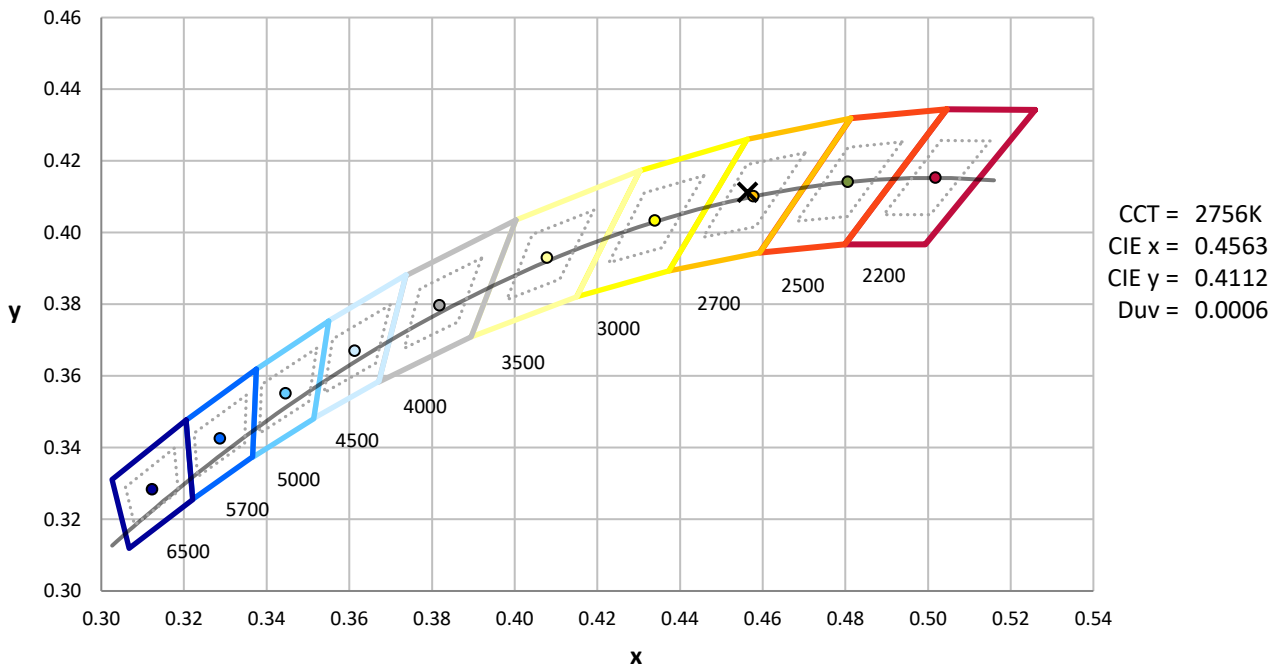
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

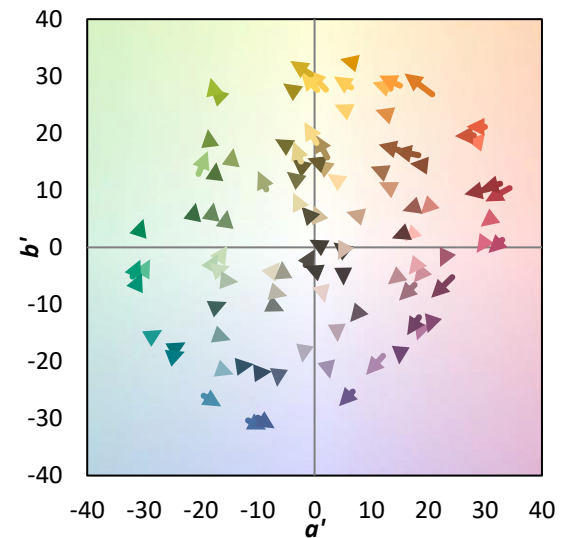
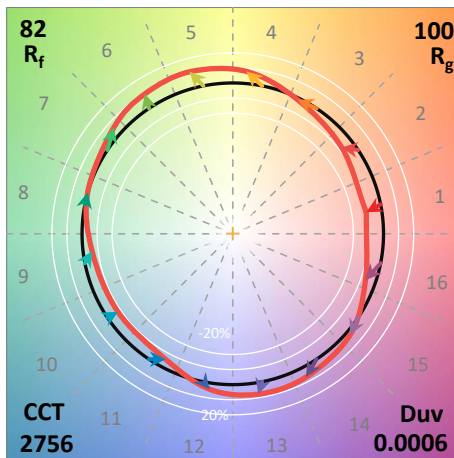
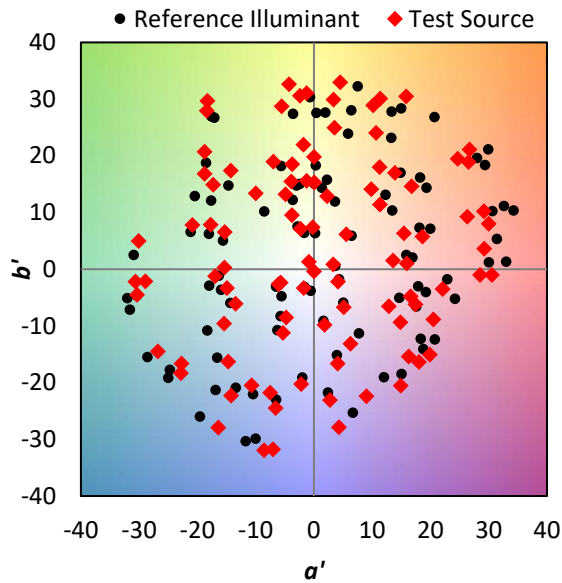
TM-30-18

Summary

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

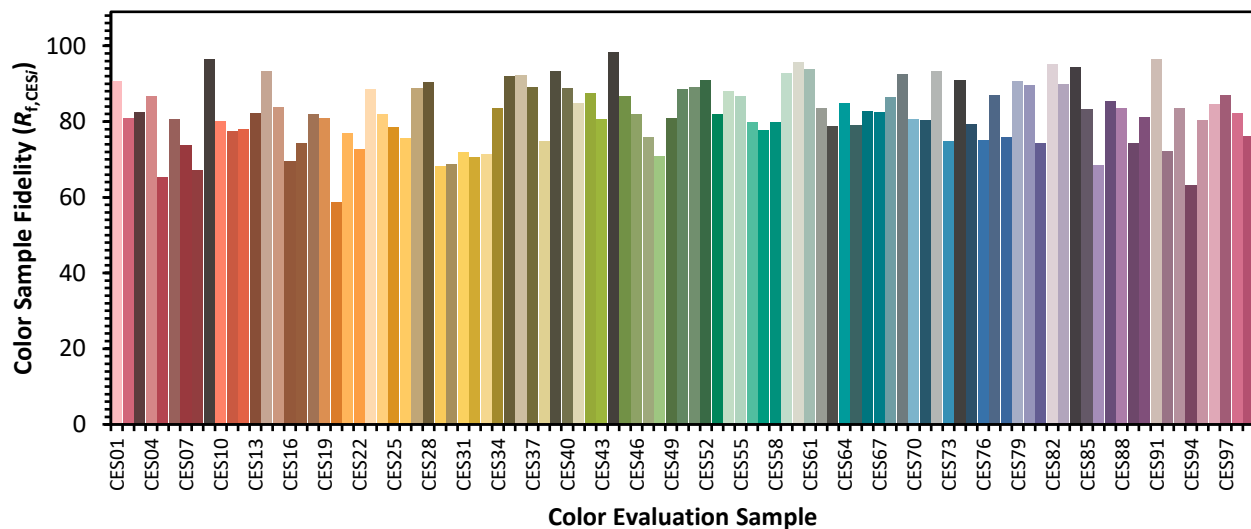


Color Vector Graphics

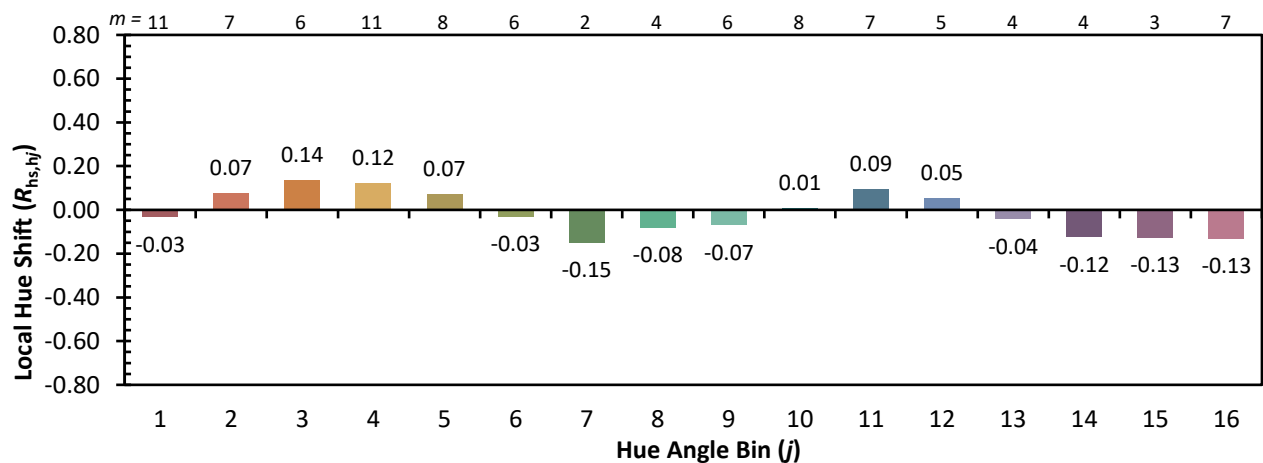


Individual Sample Fidelity Index ($R_{f,i}$)

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)