

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: P1049731

Luminaire Tested: **GALN-SA5C-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049731
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 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: 21717.4 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

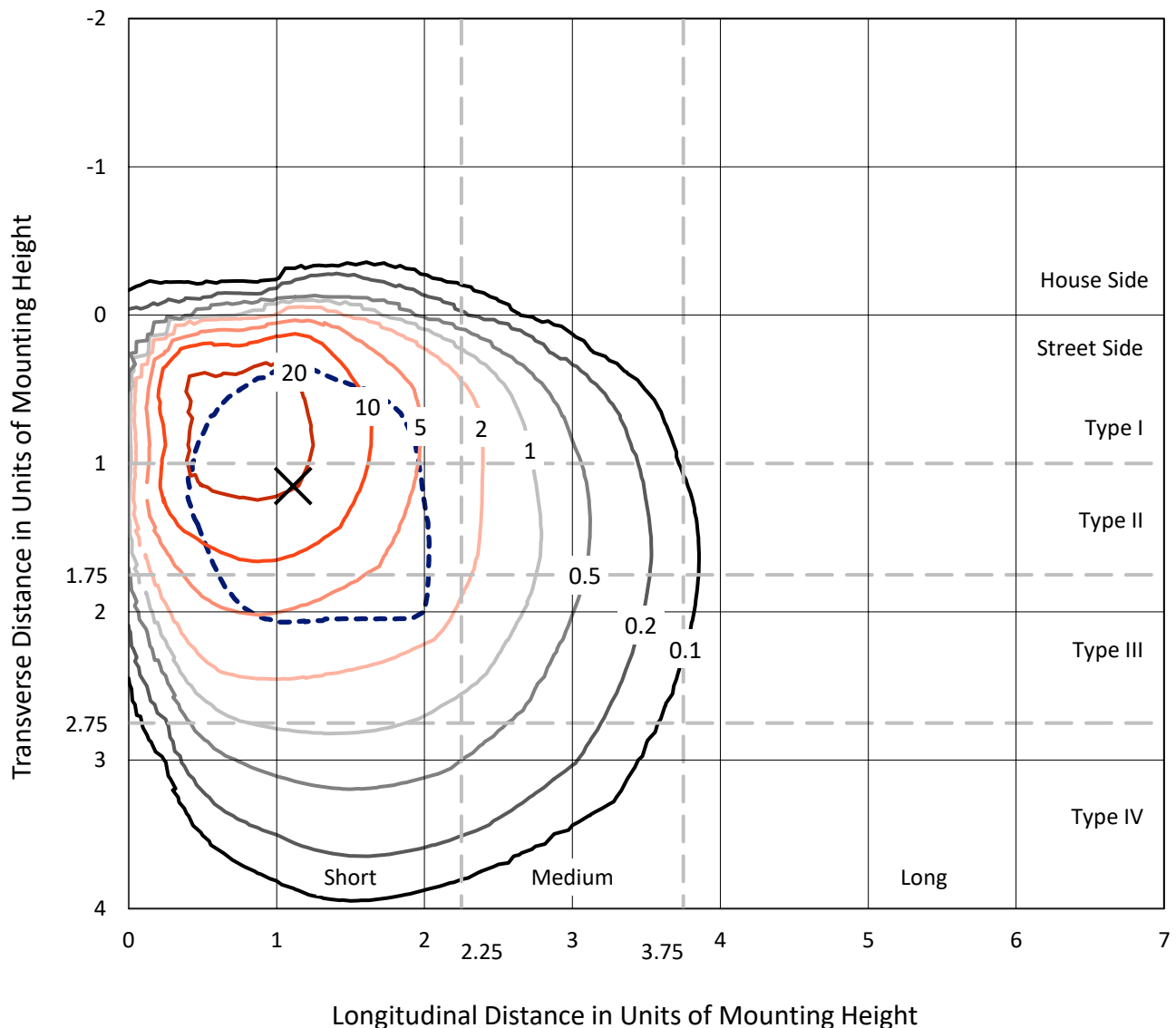
Input Watts (W): 236
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

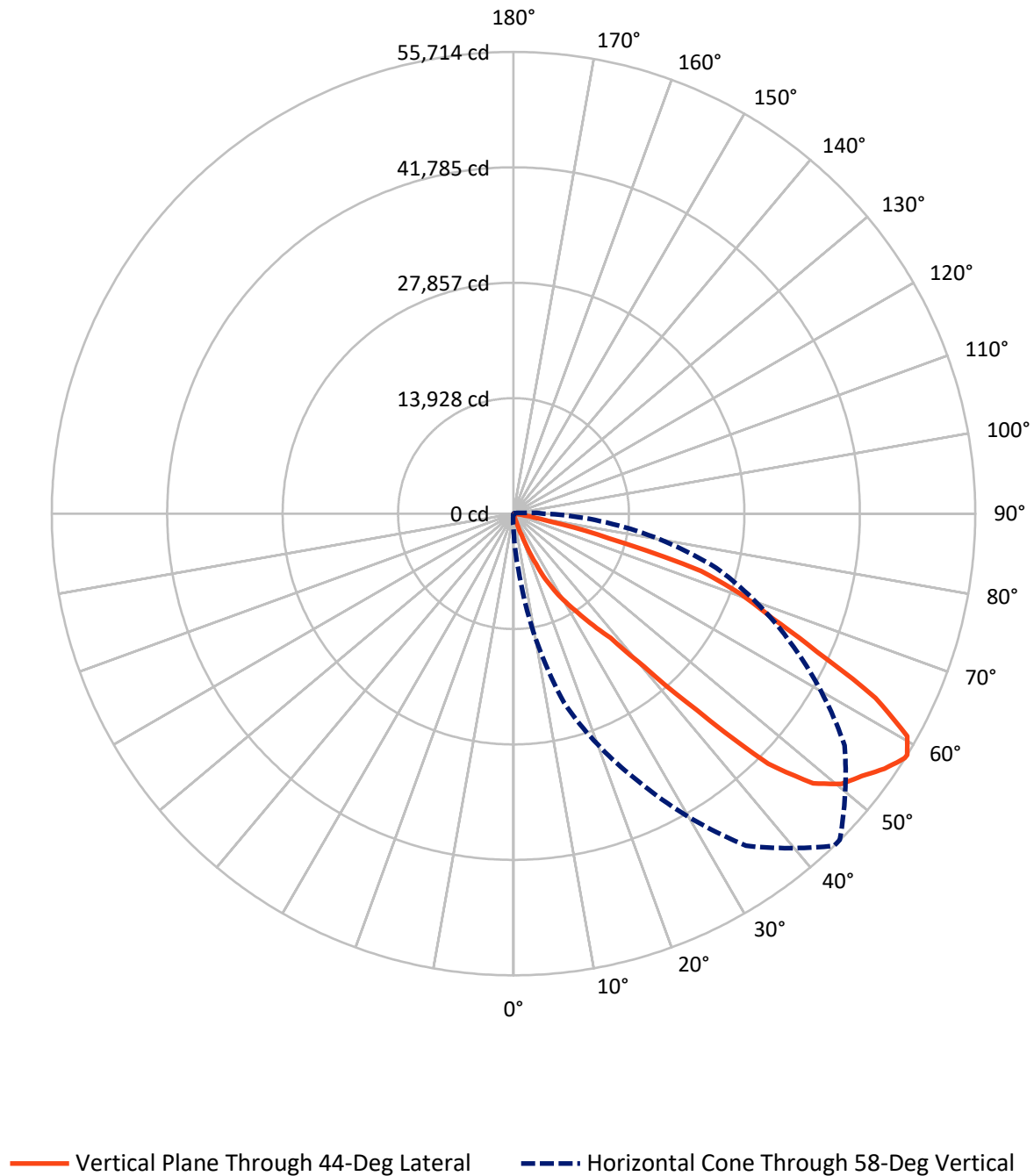
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 37.8 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	148.3	0.0	148.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	21569.1	0.0	21569.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	21717.4	0.0	21717.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.0
10°-20°	47.6	0.2
20°-30°	514.5	2.4
30°-40°	1521.5	7.0
40°-50°	4534.9	20.9
50°-60°	7195.9	33.1
60°-70°	6002.2	27.6
70°-80°	1851.2	8.5
80°-90°	41.1	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°	21717.4	100.0
0°-180°	21717.4	100.0



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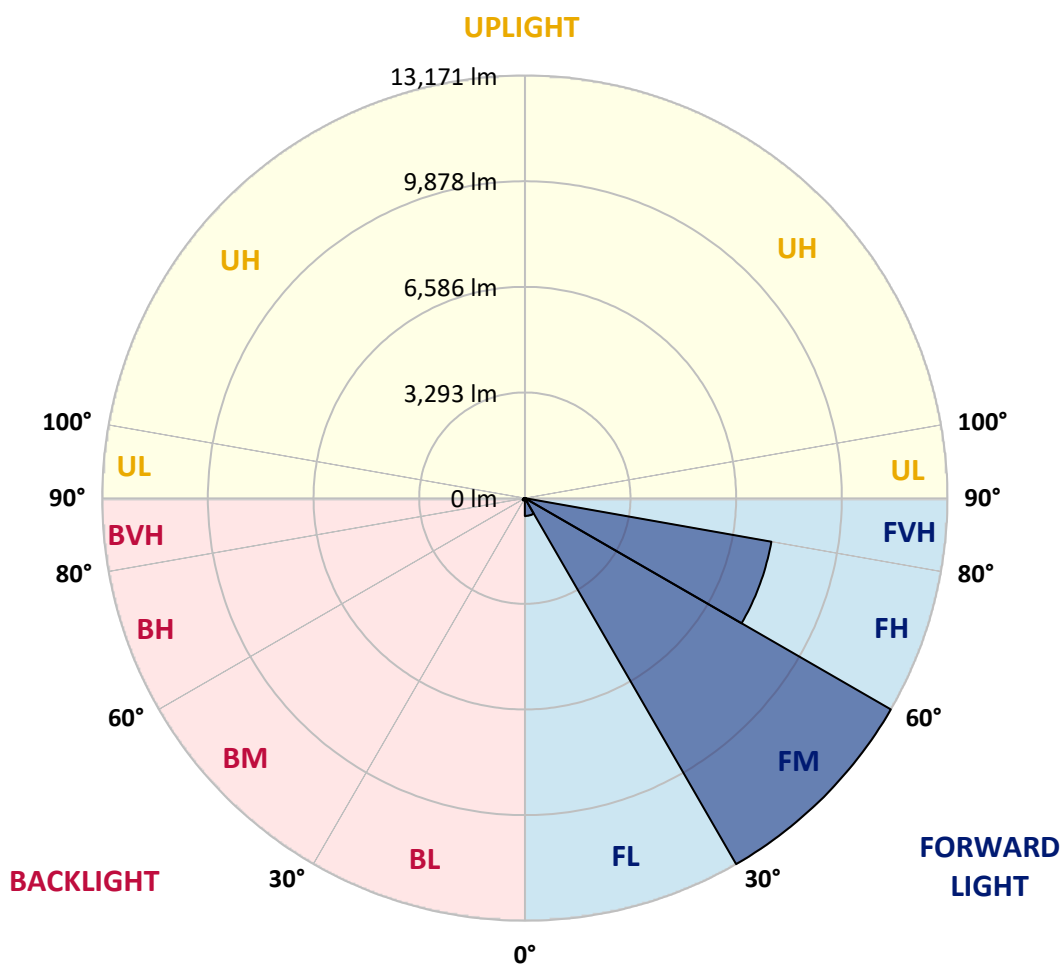
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.1	2.6			
FM	(30°-60°)	13171.2	60.6			
FH	(60°-80°)	7802.7	35.9			G4/12000
FVH	(80°-90°)	39.1	0.2			G1/100
BL	(0°-30°)	14.5	0.1	B0/110		
BM	(30°-60°)	81.2	0.4	B0/220		
BH	(60°-80°)	50.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.0	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°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2.5°	123.0	123.0	118.1	111.6	105.0	98.4	96.8	93.5	91.9	90.2
5°	128.0	128.0	126.3	121.4	114.8	109.9	109.9	105.0	101.7	98.4
7.5°	131.2	132.9	136.2	134.5	131.2	126.3	126.3	123.0	118.1	109.9
10°	136.2	141.1	147.7	150.9	152.6	152.6	150.9	149.3	141.1	129.6
12.5°	141.1	150.9	167.3	183.7	193.6	206.7	205.1	201.8	180.5	155.9
15°	150.9	165.7	200.1	247.7	321.6	367.5	385.5	369.1	298.6	210.0
17.5°	162.4	187.0	290.4	518.4	849.8	1007.3	1102.5	1025.4	679.2	398.7
20°	173.9	228.0	539.7	1343.6	2204.9	2720.1	2862.8	2639.7	1694.7	759.6
22.5°	193.6	319.9	1094.3	2777.5	4751.1	5523.8	5669.8	4956.2	3200.7	1499.5
25°	234.6	464.3	1886.7	4526.3	7090.5	8394.8	8334.1	7399.0	5192.4	2395.2
27.5°	293.7	675.9	2852.9	6431.0	9331.5	10481.6	10619.4	9462.8	6921.5	3522.3
30°	379.0	936.8	3889.8	7956.7	11128.0	12371.5	12394.5	11198.5	8468.6	4511.6
32.5°	461.0	1182.8	4797.0	9431.6	12898.1	14261.4	14363.2	12891.6	9623.6	5541.8
35°	523.3	1343.6	5715.7	10727.7	14683.1	16561.5	16555.0	14807.7	10991.8	6462.2
37.5°	528.3	1504.4	6547.5	12053.2	16943.8	19047.0	19255.3	17329.3	12645.5	7600.7
40°	516.8	1684.9	7600.7	14120.4	21017.3	24244.3	24428.0	22000.0	15962.7	9549.7
42.5°	529.9	1998.2	9310.2	17937.9	27781.3	32415.9	32770.3	30217.6	22060.7	13526.5
45°	598.8	2587.2	12891.6	24324.7	37423.0	43073.1	42954.9	39278.4	29156.1	19580.2
47.5°	826.8	4029.2	18200.4	30540.8	43584.9	48616.5	48718.2	44224.7	33296.9	24234.4
50°	1271.4	6165.2	22661.1	33826.8	46234.4	51282.5	51187.3	45994.9	34870.2	26526.3
52.5°	1653.7	7710.7	24898.9	34980.1	46574.0	52599.8	52593.3	46460.8	35114.7	26723.2
55°	1748.8	7827.1	24916.9	35042.5	47335.3	54324.1	54540.6	47607.6	35431.3	25863.5
57.5°	1711.1	6929.8	23876.8	35403.4	48690.4	55657.8	55669.3	48718.2	36235.2	25336.9
58°	1678.3	6788.7	23666.8	35608.5	48923.3	55713.6	55685.7	48769.1	36889.8	25317.2
60°	1494.6	5894.6	22848.2	36131.8	48577.2	54568.5	54307.7	47658.4	36793.0	25115.4
62.5°	1174.6	4598.5	22042.6	35526.5	44866.2	49025.0	49133.3	42193.7	33541.4	23939.1
65°	935.1	3427.1	20362.7	31162.6	36945.5	40259.5	40663.1	34310.8	27996.3	20270.8
67.5°	744.8	2477.3	17081.6	24810.3	29234.9	33600.4	33894.1	28806.7	21689.9	15531.2
70°	605.4	1675.0	11790.7	18144.7	24113.0	29021.6	29039.7	23930.9	16189.1	10176.4
72.5°	536.5	1159.9	6844.4	13232.8	19552.3	23648.8	23171.4	19419.4	12442.1	6027.4
75°	464.3	769.4	3356.6	8089.6	11854.7	11935.1	12117.2	9008.3	6219.4	2866.1
77.5°	382.3	546.3	1322.3	2209.8	3555.1	4550.9	4719.9	3576.4	2068.8	705.4
80°	262.5	259.2	356.0	677.6	1017.2	1274.7	1189.4	920.4	541.4	270.7
82.5°	113.2	123.0	160.8	193.6	157.5	152.6	146.0	93.5	72.2	55.8
85°	36.1	32.8	34.5	34.5	27.9	21.3	21.3	9.8	0.0	0.0
87.5°	18.0	14.8	14.8	13.1	8.2	3.3	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°
95.2	0°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
88.6	2.5°	87.0	87.0	83.7	80.4	78.7	75.5	73.8	72.2	70.5	68.9
95.2	5°	91.9	90.2	85.3	80.4	75.5	70.5	67.3	64.0	60.7	59.1
105.0	7.5°	100.1	96.8	87.0	78.7	72.2	65.6	62.3	57.4	54.1	49.2
116.5	10°	109.9	103.4	90.2	80.4	70.5	62.3	57.4	52.5	47.6	41.0
132.9	12.5°	123.0	111.6	95.2	78.7	67.3	57.4	52.5	45.9	41.0	36.1
154.2	15°	134.5	119.8	96.8	78.7	64.0	52.5	45.9	39.4	34.5	27.9
193.6	17.5°	150.9	126.3	95.2	73.8	59.1	45.9	39.4	34.5	26.2	16.4
287.1	20°	178.8	131.2	91.9	68.9	50.9	37.7	29.5	23.0	11.5	3.3
431.5	22.5°	223.1	144.4	88.6	62.3	44.3	29.5	19.7	8.2	0.0	0.0
656.2	25°	308.4	167.3	88.6	59.1	39.4	21.3	6.6	0.0	0.0	0.0
931.8	27.5°	410.1	198.5	88.6	50.9	31.2	11.5	0.0	0.0	0.0	0.0
1269.8	30°	513.5	233.0	88.6	44.3	24.6	1.6	0.0	0.0	0.0	0.0
1563.5	32.5°	611.9	262.5	90.2	37.7	16.4	0.0	0.0	0.0	0.0	0.0
1970.3	35°	712.0	267.4	88.6	32.8	9.8	0.0	0.0	0.0	0.0	0.0
2469.1	37.5°	840.0	257.6	83.7	29.5	4.9	0.0	0.0	0.0	0.0	0.0
3248.3	40°	1033.6	262.5	78.7	27.9	1.6	0.0	0.0	0.0	0.0	0.0
4637.9	42.5°	1391.2	283.8	72.2	27.9	0.0	0.0	0.0	0.0	0.0	0.0
7387.5	45°	2405.1	380.6	65.6	29.5	0.0	0.0	0.0	0.0	0.0	0.0
11090.2	47.5°	3978.4	684.1	64.0	29.5	0.0	0.0	0.0	0.0	0.0	0.0
13359.1	50°	5077.6	861.3	67.3	31.2	0.0	0.0	0.0	0.0	0.0	0.0
13642.9	52.5°	5069.3	959.7	70.5	32.8	6.6	0.0	0.0	0.0	0.0	0.0
12574.9	55°	4506.6	977.8	75.5	36.1	21.3	0.0	0.0	0.0	0.0	0.0
10806.4	57.5°	3766.7	892.5	87.0	44.3	39.4	0.0	0.0	0.0	0.0	0.0
10529.2	58°	3635.5	853.1	90.2	45.9	42.7	0.0	0.0	0.0	0.0	0.0
9133.0	60°	2979.3	695.6	114.8	57.4	57.4	0.0	0.0	0.0	0.0	0.0
7487.5	62.5°	2057.3	607.0	131.2	73.8	59.1	0.0	0.0	0.0	0.0	0.0
5520.5	65°	1455.2	547.9	142.7	78.7	47.6	0.0	0.0	0.0	0.0	0.0
3922.6	67.5°	1087.7	505.3	157.5	80.4	24.6	0.0	0.0	0.0	0.0	0.0
2460.8	70°	833.4	474.1	193.6	85.3	6.6	0.0	0.0	0.0	0.0	0.0
1466.7	72.5°	679.2	438.0	234.6	88.6	0.0	0.0	0.0	0.0	0.0	0.0
879.3	75°	562.7	395.4	226.4	96.8	0.0	0.0	0.0	0.0	0.0	0.0
469.2	77.5°	374.0	306.8	206.7	96.8	0.0	0.0	0.0	0.0	0.0	0.0
167.3	80°	131.2	121.4	160.8	85.3	0.0	0.0	0.0	0.0	0.0	0.0
34.5	82.5°	19.7	16.4	23.0	29.5	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°
95.2	0°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
67.3	2.5°	67.3	67.3	65.6	67.3	67.3	70.5	78.7	90.2	103.4	108.3
57.4	5°	55.8	54.1	52.5	52.5	52.5	57.4	64.0	77.1	91.9	98.4
47.6	7.5°	45.9	44.3	42.7	41.0	41.0	44.3	52.5	67.3	82.0	88.6
39.4	10°	37.7	34.5	32.8	31.2	31.2	34.5	42.7	57.4	73.8	80.4
32.8	12.5°	31.2	26.2	23.0	21.3	19.7	24.6	32.8	45.9	64.0	72.2
24.6	15°	21.3	16.4	11.5	9.8	8.2	13.1	21.3	36.1	54.1	64.0
13.1	17.5°	11.5	4.9	1.6	0.0	0.0	3.3	9.8	26.2	44.3	52.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	32.8	41.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	19.7	27.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	14.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
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	4.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	13.1
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°
95.2	0°	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
113.2	2.5°	116.5	114.8	111.6	108.3	108.3	108.3	113.2	118.1	123.0	123.0
101.7	5°	108.3	108.3	106.6	103.4	103.4	105.0	111.6	119.8	126.3	128.0
93.5	7.5°	100.1	103.4	100.1	98.4	100.1	101.7	108.3	118.1	128.0	131.2
87.0	10°	95.2	96.8	96.8	95.2	95.2	98.4	105.0	118.1	131.2	136.2
78.7	12.5°	88.6	91.9	90.2	90.2	90.2	93.5	101.7	116.5	134.5	141.1
70.5	15°	82.0	87.0	87.0	85.3	85.3	87.0	98.4	114.8	139.4	150.9
60.7	17.5°	75.5	80.4	82.0	78.7	78.7	82.0	93.5	114.8	142.7	162.4
49.2	20°	62.3	70.5	75.5	70.5	70.5	73.8	85.3	108.3	144.4	173.9
36.1	22.5°	49.2	57.4	64.0	62.3	62.3	64.0	78.7	103.4	146.0	193.6
21.3	25°	36.1	44.3	49.2	52.5	52.5	57.4	72.2	100.1	152.6	234.6
9.8	27.5°	21.3	31.2	37.7	41.0	42.7	49.2	67.3	96.8	164.1	293.7
0.0	30°	9.8	18.0	26.2	32.8	32.8	44.3	62.3	93.5	178.8	379.0
0.0	32.5°	0.0	8.2	13.1	23.0	24.6	36.1	57.4	90.2	200.1	461.0
0.0	35°	0.0	0.0	6.6	18.0	18.0	29.5	52.5	87.0	233.0	523.3
0.0	37.5°	0.0	0.0	0.0	13.1	14.8	26.2	50.9	85.3	239.5	528.3
0.0	40°	0.0	0.0	0.0	9.8	11.5	24.6	50.9	87.0	216.6	516.8
0.0	42.5°	0.0	0.0	0.0	6.6	8.2	24.6	50.9	90.2	195.2	529.9
0.0	45°	0.0	0.0	0.0	4.9	6.6	26.2	49.2	88.6	183.7	598.8
0.0	47.5°	0.0	0.0	0.0	6.6	9.8	26.2	47.6	87.0	185.4	826.8
0.0	50°	0.0	0.0	0.0	8.2	11.5	26.2	49.2	83.7	203.4	1271.4
0.0	52.5°	0.0	0.0	0.0	6.6	9.8	29.5	54.1	82.0	221.5	1653.7
0.0	55°	0.0	0.0	0.0	1.6	4.9	37.7	59.1	82.0	249.4	1748.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	42.7	67.3	87.0	295.3	1711.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	42.7	68.9	87.0	298.6	1678.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	42.7	75.5	96.8	321.6	1494.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	36.1	90.2	121.4	334.7	1174.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	29.5	106.6	132.9	344.5	935.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	27.9	109.9	134.5	349.4	744.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	29.5	108.3	144.4	365.8	605.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	32.8	98.4	159.1	365.8	536.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	34.5	91.9	178.8	333.0	464.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	32.8	90.2	208.4	296.9	382.3
0.0	80°	3.3	4.9	4.9	3.3	3.3	27.9	88.6	211.6	252.6	262.5
1.6	82.5°	9.8	13.1	11.5	8.2	8.2	24.6	78.7	177.2	131.2	113.2
9.8	85°	18.0	21.3	21.3	18.0	18.0	23.0	49.2	64.0	44.3	36.1
18.0	87.5°	24.6	27.9	27.9	24.6	24.6	23.0	21.3	19.7	18.0	18.0
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

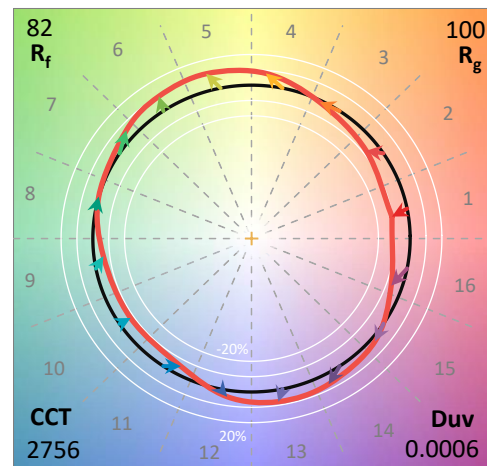
Test Information

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
 Rf: 82.2
 Rg: 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

REPORT NUMBER: SP1-2407-184-8

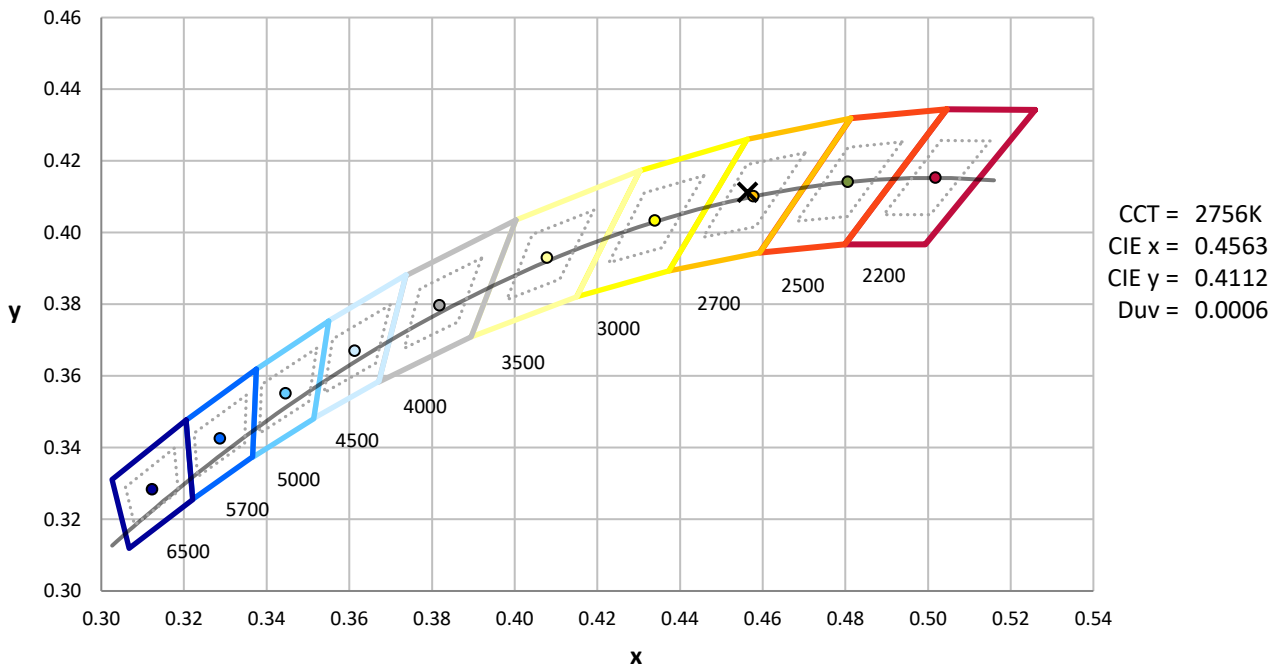
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-8

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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Photopic Flux vs. Wavelength



Photopic Lumens: NR

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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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			

REPORT NUMBER: SP1-2407-184-8

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

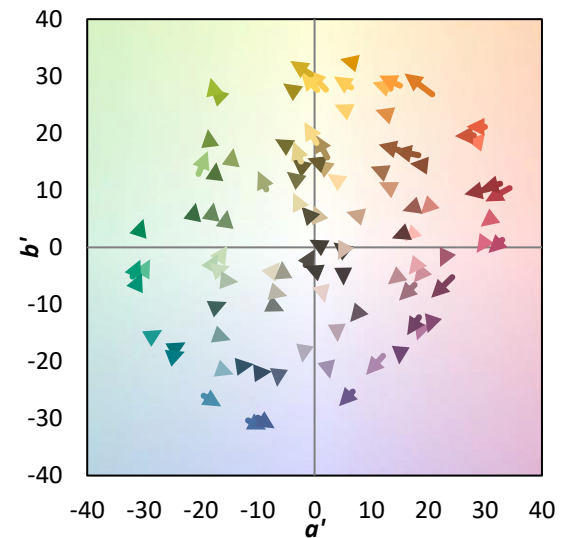
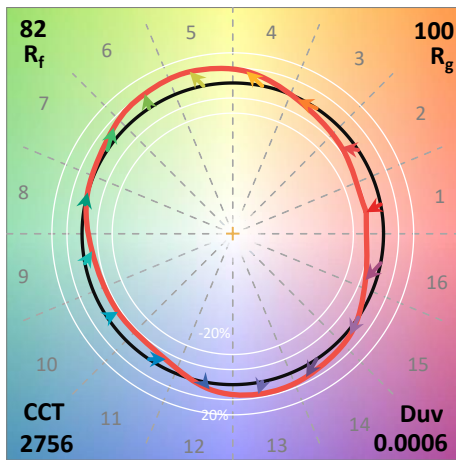
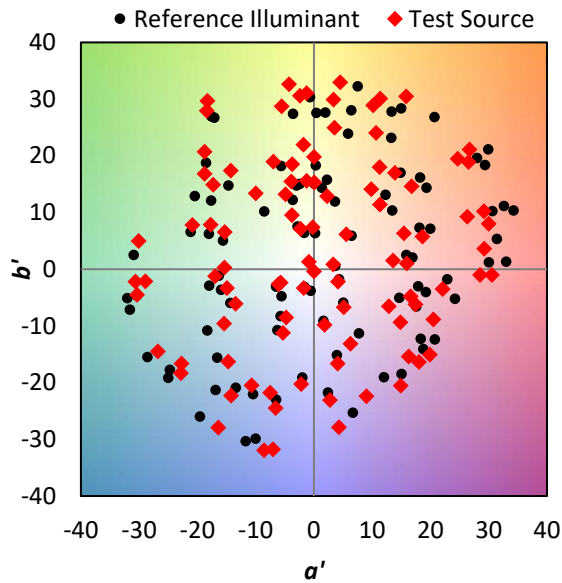
TM-30-18

Summary

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

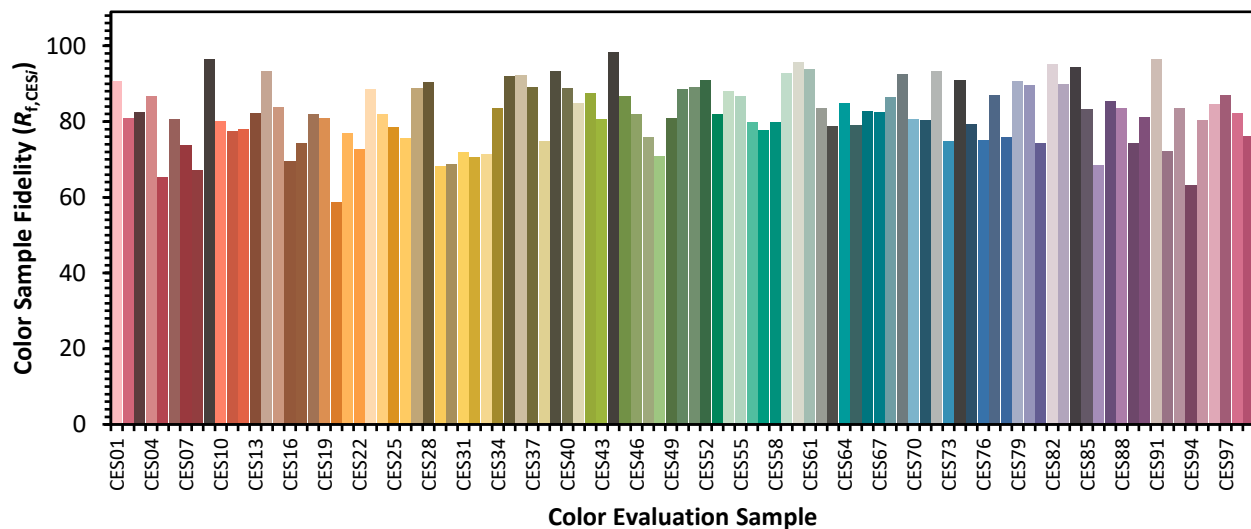


Color Vector Graphics

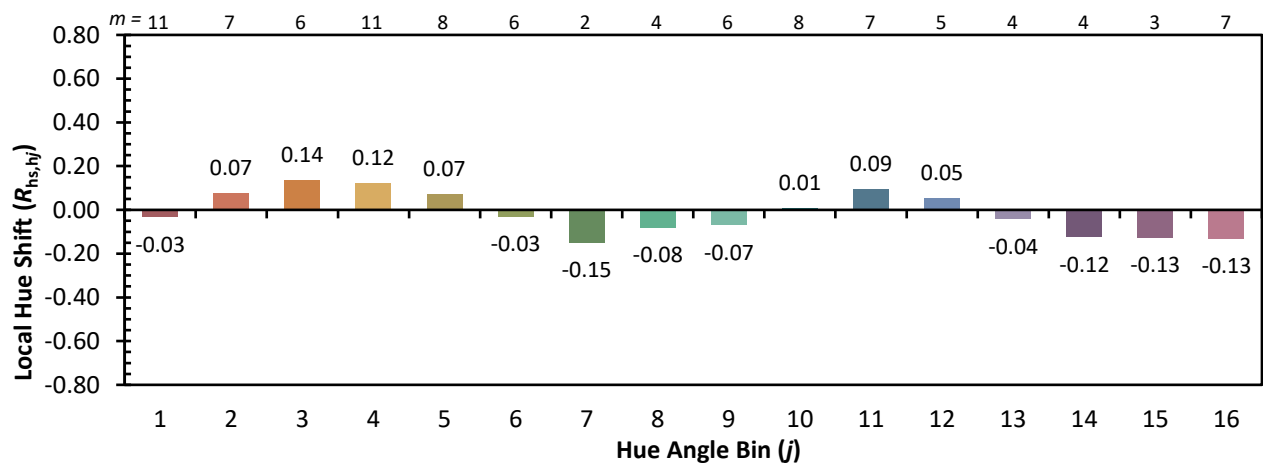


Individual Sample Fidelity Index ($R_{f,i}$)

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)