

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: P1049738

Luminaire Tested: **GALN-SA7B-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049738
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24493.8 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 249.5
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

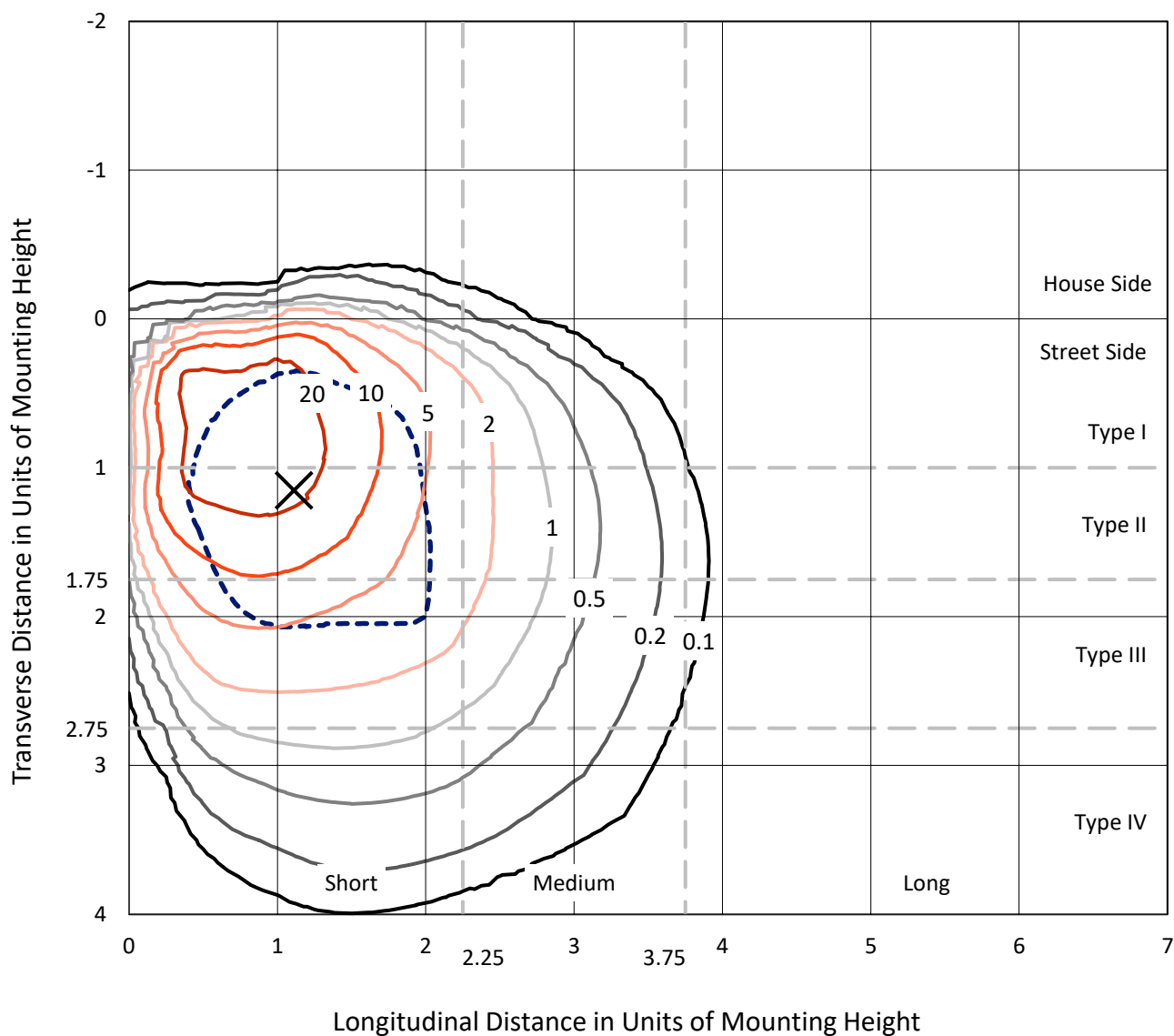
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



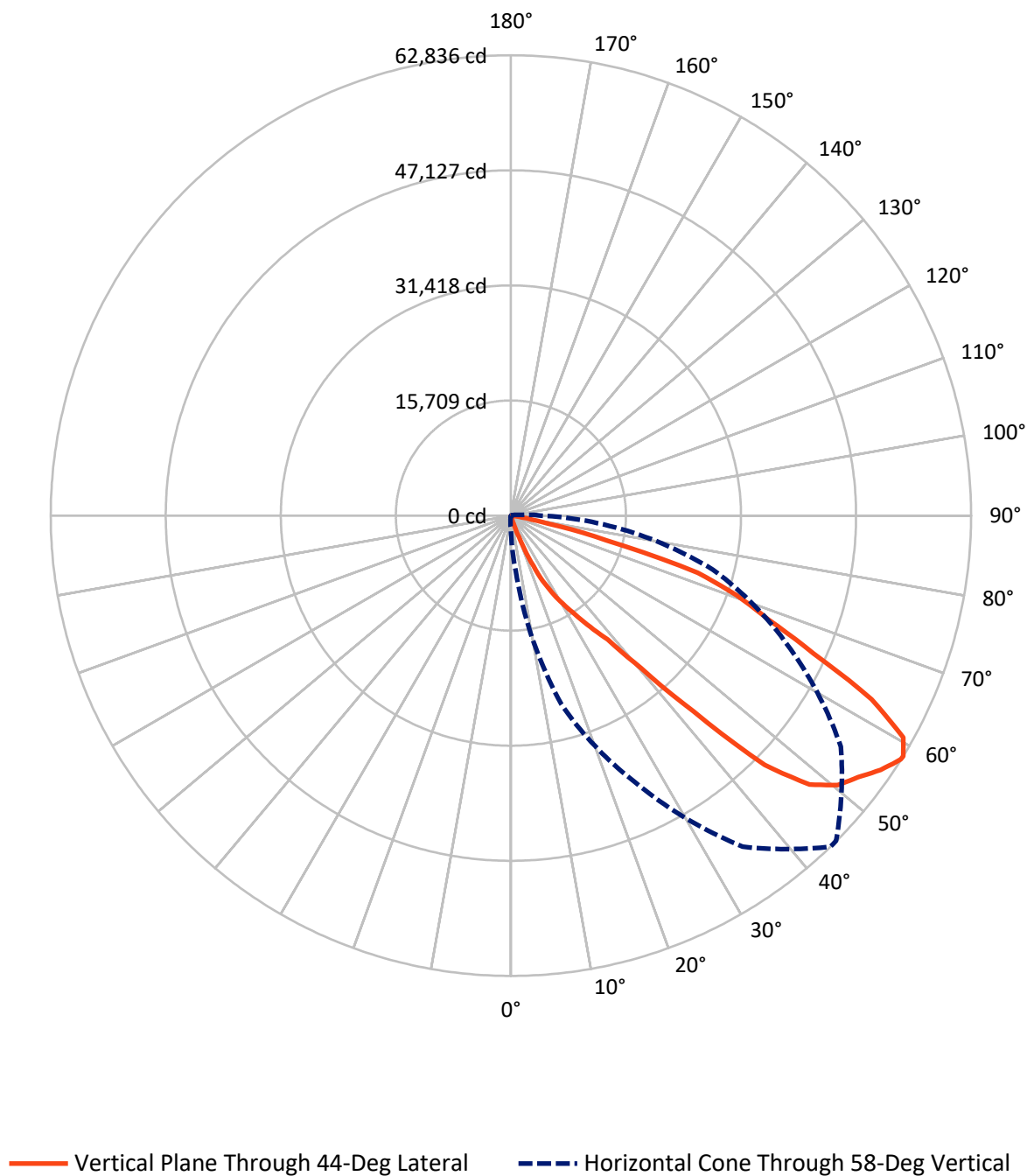
Based on 20 foot mounting height. Maximum calculated value = 42.6 fc

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	167.2	0.0	167.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	24326.6	0.0	24326.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	24493.8	0.0	24493.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.0
10°-20°	53.7	0.2
20°-30°	580.3	2.4
30°-40°	1716.0	7.0
40°-50°	5114.7	20.9
50°-60°	8115.8	33.1
60°-70°	6769.5	27.6
70°-80°	2087.8	8.5
80°-90°	46.4	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°	24493.8	100.0
0°-180°	24493.8	100.0



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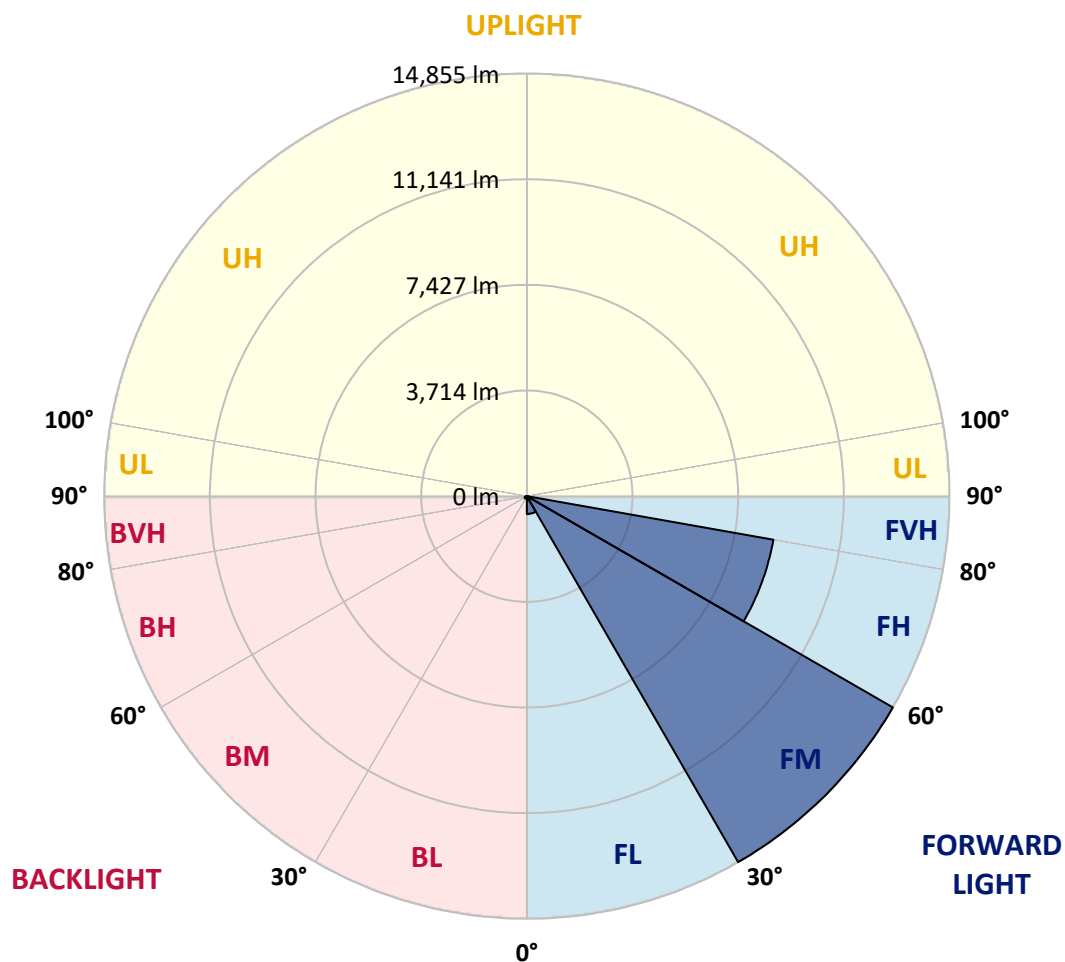
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.2	2.6			
FM	(30°-60°)	14855.0	60.6			
FH	(60°-80°)	8800.3	35.9			G4/12000
FVH	(80°-90°)	44.1	0.2			G1/100
BL	(0°-30°)	16.4	0.1	B0/110		
BM	(30°-60°)	91.5	0.4	B0/220		
BH	(60°-80°)	57.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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°	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
2.5°	138.8	138.8	133.2	125.8	118.4	111.0	109.2	105.5	103.6	101.8
5°	144.3	144.3	142.5	136.9	129.5	124.0	124.0	118.4	114.7	111.0
7.5°	148.0	149.9	153.6	151.7	148.0	142.5	142.5	138.8	133.2	124.0
10°	153.6	159.1	166.5	170.2	172.1	172.1	170.2	168.4	159.1	146.2
12.5°	159.1	170.2	188.7	207.2	218.3	233.1	231.3	227.6	203.5	175.8
15°	170.2	186.9	225.7	279.4	362.7	414.5	434.8	416.3	336.8	236.8
17.5°	183.2	210.9	327.5	584.7	958.5	1136.1	1243.4	1156.4	766.0	449.6
20°	196.1	257.2	608.7	1515.4	2486.8	3067.8	3228.8	2977.1	1911.4	856.7
22.5°	218.3	360.8	1234.2	3132.6	5358.5	6230.0	6394.6	5589.8	3609.9	1691.2
25°	264.6	523.6	2127.8	5105.0	7997.0	9468.0	9399.5	8344.9	5856.2	2701.4
27.5°	331.2	762.3	3217.7	7253.2	10524.5	11821.6	11977.0	10672.5	7806.4	3972.6
30°	427.4	1056.5	4387.1	8974.0	12550.6	13953.1	13979.0	12630.2	9551.3	5088.3
32.5°	519.9	1334.1	5410.3	10637.4	14547.1	16084.7	16199.4	14539.7	10853.9	6250.3
35°	590.2	1515.4	6446.4	12099.1	16560.2	18678.8	18671.4	16700.8	12397.0	7288.3
37.5°	595.8	1696.7	7384.6	13594.2	19109.9	21482.0	21717.0	19544.7	14262.1	8572.4
40°	582.8	1900.3	8572.4	15925.5	23704.2	27343.7	27551.0	24812.5	18003.4	10770.6
42.5°	597.6	2253.7	10500.5	20231.2	31333.0	36560.1	36959.8	34080.7	24881.0	15255.7
45°	675.4	2917.9	14539.7	27434.4	42207.2	48579.6	48446.4	44299.9	32883.5	22083.3
47.5°	932.6	4544.3	20527.2	34445.2	49156.9	54831.8	54946.5	49878.6	37553.7	27332.6
50°	1434.0	6953.4	25558.2	38151.4	52145.2	57838.6	57731.2	51875.0	39328.1	29917.5
52.5°	1865.1	8696.4	28082.0	39452.1	52528.2	59324.3	59316.9	52400.5	39603.8	30139.5
55°	1972.4	8827.8	28102.4	39522.4	53386.7	61269.0	61513.2	53693.9	39960.9	29170.0
57.5°	1929.9	7815.7	26929.3	39929.5	54915.1	62773.3	62786.3	54946.5	40867.6	28576.0
58°	1892.9	7656.5	26692.4	40160.8	55177.8	62836.2	62804.8	55003.9	41605.9	28553.8
60°	1685.6	6648.1	25769.1	40751.0	54787.4	61544.7	61250.5	53751.2	41496.7	28326.3
62.5°	1324.8	5186.4	24860.6	40068.3	50602.0	55292.5	55414.7	47587.9	37829.4	26999.6
65°	1054.7	3865.3	22965.9	35146.5	41668.8	45406.4	45861.6	38697.2	31575.4	22862.3
67.5°	840.0	2794.0	19265.3	27982.1	32972.4	37896.0	38227.2	32489.4	24462.8	17516.8
70°	682.8	1889.2	13298.1	20464.3	27195.7	32731.8	32752.2	26990.3	18258.8	11477.4
72.5°	605.0	1308.2	7719.5	14924.5	22051.9	26672.1	26133.6	21902.0	14032.7	6798.0
75°	523.6	867.8	3785.7	9123.8	13370.3	13460.9	13666.3	10160.0	7014.5	3232.5
77.5°	431.1	616.2	1491.3	2492.4	4009.6	5132.7	5323.3	4033.7	2333.2	795.6
80°	296.0	292.3	401.5	764.2	1147.2	1437.7	1341.5	1038.0	610.6	305.3
82.5°	127.7	138.8	181.3	218.3	177.6	172.1	164.7	105.5	81.4	62.9
85°	40.7	37.0	38.9	38.9	31.5	24.1	24.1	11.1	0.0	0.0
87.5°	20.4	16.7	16.7	14.8	9.3	3.7	1.9	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°
107.3	0°	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
99.9	2.5°	98.1	98.1	94.4	90.7	88.8	85.1	83.3	81.4	79.6	77.7
107.3	5°	103.6	101.8	96.2	90.7	85.1	79.6	75.9	72.2	68.5	66.6
118.4	7.5°	112.9	109.2	98.1	88.8	81.4	74.0	70.3	64.8	61.1	55.5
131.4	10°	124.0	116.6	101.8	90.7	79.6	70.3	64.8	59.2	53.7	46.3
149.9	12.5°	138.8	125.8	107.3	88.8	75.9	64.8	59.2	51.8	46.3	40.7
173.9	15°	151.7	135.1	109.2	88.8	72.2	59.2	51.8	44.4	38.9	31.5
218.3	17.5°	170.2	142.5	107.3	83.3	66.6	51.8	44.4	38.9	29.6	18.5
323.8	20°	201.7	148.0	103.6	77.7	57.4	42.6	33.3	25.9	13.0	3.7
486.6	22.5°	251.6	162.8	99.9	70.3	50.0	33.3	22.2	9.3	0.0	0.0
740.1	25°	347.9	188.7	99.9	66.6	44.4	24.1	7.4	0.0	0.0	0.0
1051.0	27.5°	462.6	223.9	99.9	57.4	35.2	13.0	0.0	0.0	0.0	0.0
1432.1	30°	579.1	262.7	99.9	50.0	27.8	1.9	0.0	0.0	0.0	0.0
1763.3	32.5°	690.2	296.0	101.8	42.6	18.5	0.0	0.0	0.0	0.0	0.0
2222.2	35°	803.0	301.6	99.9	37.0	11.1	0.0	0.0	0.0	0.0	0.0
2784.7	37.5°	947.4	290.5	94.4	33.3	5.6	0.0	0.0	0.0	0.0	0.0
3663.6	40°	1165.7	296.0	88.8	31.5	1.9	0.0	0.0	0.0	0.0	0.0
5230.8	42.5°	1569.1	320.1	81.4	31.5	0.0	0.0	0.0	0.0	0.0	0.0
8331.9	45°	2712.5	429.3	74.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0
12508.0	47.5°	4487.0	771.6	72.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0
15067.0	50°	5726.7	971.4	75.9	35.2	0.0	0.0	0.0	0.0	0.0	0.0
15387.1	52.5°	5717.4	1082.4	79.6	37.0	7.4	0.0	0.0	0.0	0.0	0.0
14182.6	55°	5082.8	1102.8	85.1	40.7	24.1	0.0	0.0	0.0	0.0	0.0
12187.9	57.5°	4248.3	1006.6	98.1	50.0	44.4	0.0	0.0	0.0	0.0	0.0
11875.2	58°	4100.3	962.2	101.8	51.8	48.1	0.0	0.0	0.0	0.0	0.0
10300.6	60°	3360.1	784.5	129.5	64.8	64.8	0.0	0.0	0.0	0.0	0.0
8444.8	62.5°	2320.3	684.6	148.0	83.3	66.6	0.0	0.0	0.0	0.0	0.0
6226.3	65°	1641.2	618.0	161.0	88.8	53.7	0.0	0.0	0.0	0.0	0.0
4424.1	67.5°	1226.7	569.9	177.6	90.7	27.8	0.0	0.0	0.0	0.0	0.0
2775.5	70°	940.0	534.7	218.3	96.2	7.4	0.0	0.0	0.0	0.0	0.0
1654.2	72.5°	766.0	494.0	264.6	99.9	0.0	0.0	0.0	0.0	0.0	0.0
991.8	75°	634.7	445.9	255.3	109.2	0.0	0.0	0.0	0.0	0.0	0.0
529.2	77.5°	421.9	346.0	233.1	109.2	0.0	0.0	0.0	0.0	0.0	0.0
188.7	80°	148.0	136.9	181.3	96.2	0.0	0.0	0.0	0.0	0.0	0.0
38.9	82.5°	22.2	18.5	25.9	33.3	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°
107.3	0°	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
75.9	2.5°	75.9	75.9	74.0	75.9	75.9	79.6	88.8	101.8	116.6	122.1
64.8	5°	62.9	61.1	59.2	59.2	59.2	64.8	72.2	87.0	103.6	111.0
53.7	7.5°	51.8	50.0	48.1	46.3	46.3	50.0	59.2	75.9	92.5	99.9
44.4	10°	42.6	38.9	37.0	35.2	35.2	38.9	48.1	64.8	83.3	90.7
37.0	12.5°	35.2	29.6	25.9	24.1	22.2	27.8	37.0	51.8	72.2	81.4
27.8	15°	24.1	18.5	13.0	11.1	9.3	14.8	24.1	40.7	61.1	72.2
14.8	17.5°	13.0	5.6	1.9	0.0	0.0	3.7	11.1	29.6	50.0	59.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	37.0	46.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	22.2	31.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	16.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
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	5.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.8
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°
107.3	0°	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3	107.3
127.7	2.5°	131.4	129.5	125.8	122.1	122.1	122.1	127.7	133.2	138.8	138.8
114.7	5°	122.1	122.1	120.3	116.6	116.6	118.4	125.8	135.1	142.5	144.3
105.5	7.5°	112.9	116.6	112.9	111.0	112.9	114.7	122.1	133.2	144.3	148.0
98.1	10°	107.3	109.2	109.2	107.3	107.3	111.0	118.4	133.2	148.0	153.6
88.8	12.5°	99.9	103.6	101.8	101.8	101.8	105.5	114.7	131.4	151.7	159.1
79.6	15°	92.5	98.1	98.1	96.2	96.2	98.1	111.0	129.5	157.3	170.2
68.5	17.5°	85.1	90.7	92.5	88.8	88.8	92.5	105.5	129.5	161.0	183.2
55.5	20°	70.3	79.6	85.1	79.6	79.6	83.3	96.2	122.1	162.8	196.1
40.7	22.5°	55.5	64.8	72.2	70.3	70.3	72.2	88.8	116.6	164.7	218.3
24.1	25°	40.7	50.0	55.5	59.2	59.2	64.8	81.4	112.9	172.1	264.6
11.1	27.5°	24.1	35.2	42.6	46.3	48.1	55.5	75.9	109.2	185.0	331.2
0.0	30°	11.1	20.4	29.6	37.0	37.0	50.0	70.3	105.5	201.7	427.4
0.0	32.5°	0.0	9.3	14.8	25.9	27.8	40.7	64.8	101.8	225.7	519.9
0.0	35°	0.0	0.0	7.4	20.4	20.4	33.3	59.2	98.1	262.7	590.2
0.0	37.5°	0.0	0.0	0.0	14.8	16.7	29.6	57.4	96.2	270.1	595.8
0.0	40°	0.0	0.0	0.0	11.1	13.0	27.8	57.4	98.1	244.2	582.8
0.0	42.5°	0.0	0.0	0.0	7.4	9.3	27.8	57.4	101.8	220.2	597.6
0.0	45°	0.0	0.0	0.0	5.6	7.4	29.6	55.5	99.9	207.2	675.4
0.0	47.5°	0.0	0.0	0.0	7.4	11.1	29.6	53.7	98.1	209.1	932.6
0.0	50°	0.0	0.0	0.0	9.3	13.0	29.6	55.5	94.4	229.4	1434.0
0.0	52.5°	0.0	0.0	0.0	7.4	11.1	33.3	61.1	92.5	249.8	1865.1
0.0	55°	0.0	0.0	0.0	1.9	5.6	42.6	66.6	92.5	281.2	1972.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	48.1	75.9	98.1	333.1	1929.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	48.1	77.7	98.1	336.8	1892.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	48.1	85.1	109.2	362.7	1685.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	40.7	101.8	136.9	377.5	1324.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	33.3	120.3	149.9	388.6	1054.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	31.5	124.0	151.7	394.1	840.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	33.3	122.1	162.8	412.6	682.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	37.0	111.0	179.5	412.6	605.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	38.9	103.6	201.7	375.6	523.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	37.0	101.8	235.0	334.9	431.1
0.0	80°	3.7	5.6	5.6	3.7	3.7	31.5	99.9	238.7	284.9	296.0
1.9	82.5°	11.1	14.8	13.0	9.3	9.3	27.8	88.8	199.8	148.0	127.7
11.1	85°	20.4	24.1	24.1	20.4	20.4	25.9	55.5	72.2	50.0	40.7
20.4	87.5°	27.8	31.5	31.5	27.8	27.8	25.9	24.1	22.2	20.4	20.4
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

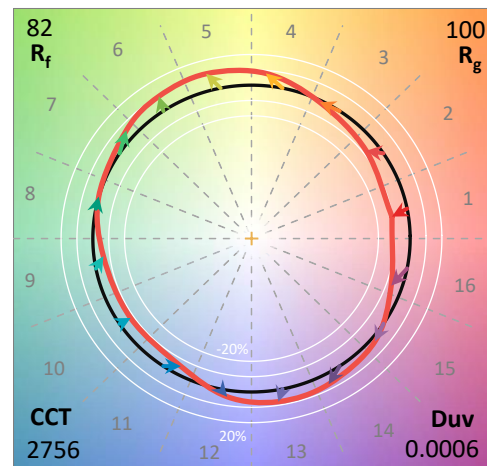
Test Information

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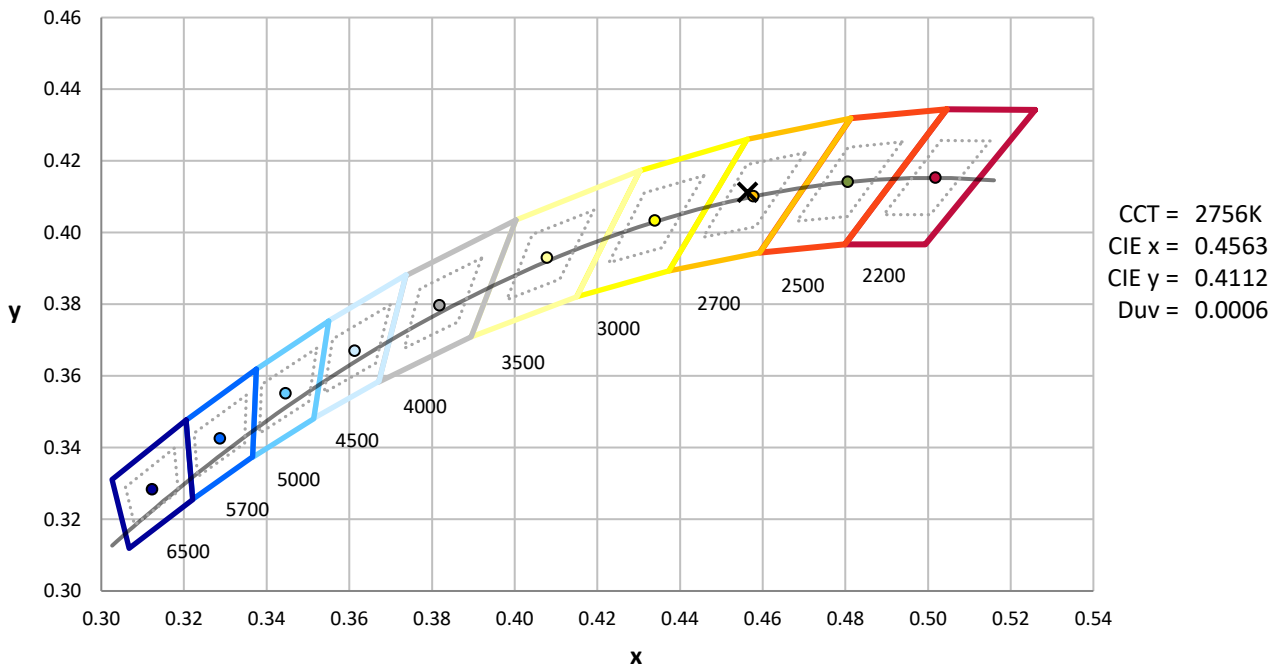
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

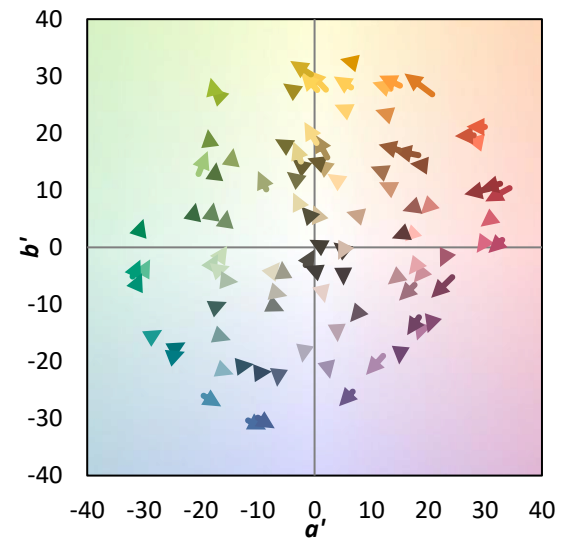
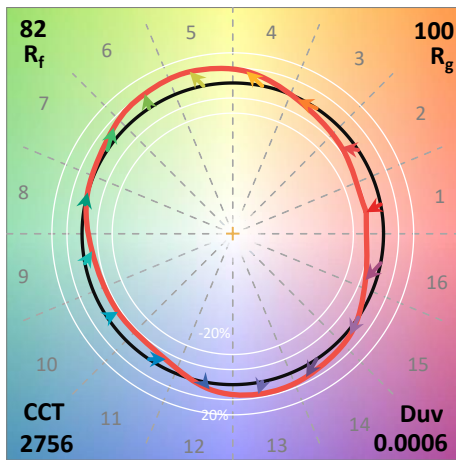
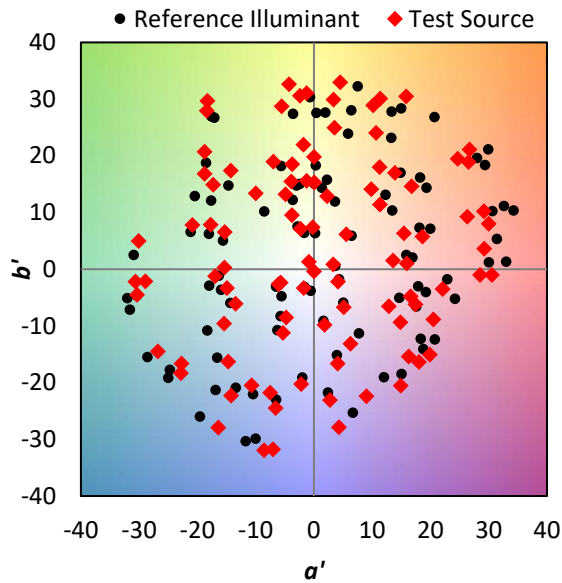
TM-30-18

Summary

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

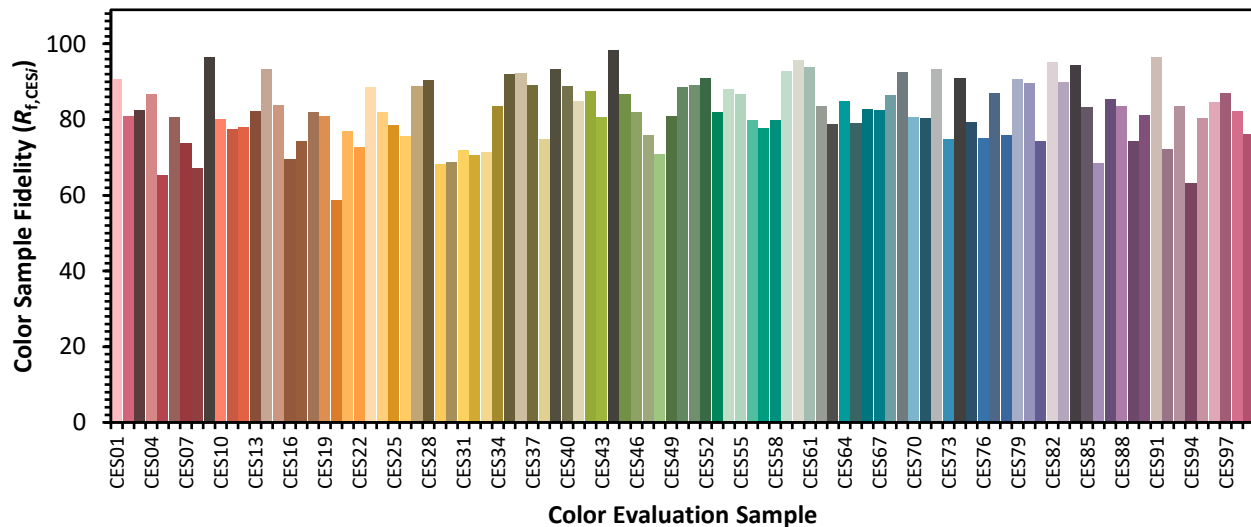


Color Vector Graphics

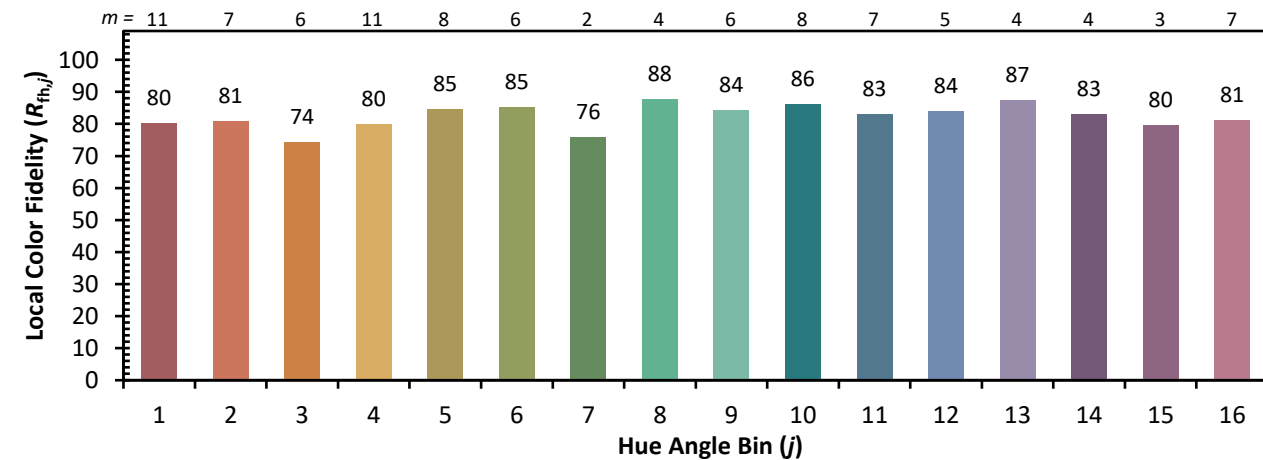
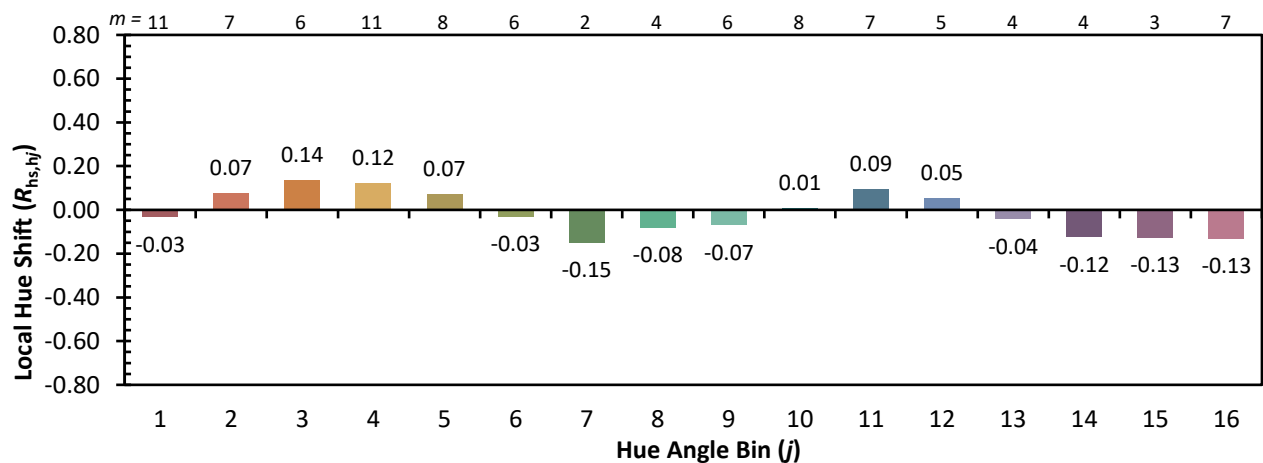


Individual Sample Fidelity Index ($R_{f,i}$)

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)