

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: P1049747

Luminaire Tested: **GALN-SA9C-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049747
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38688 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

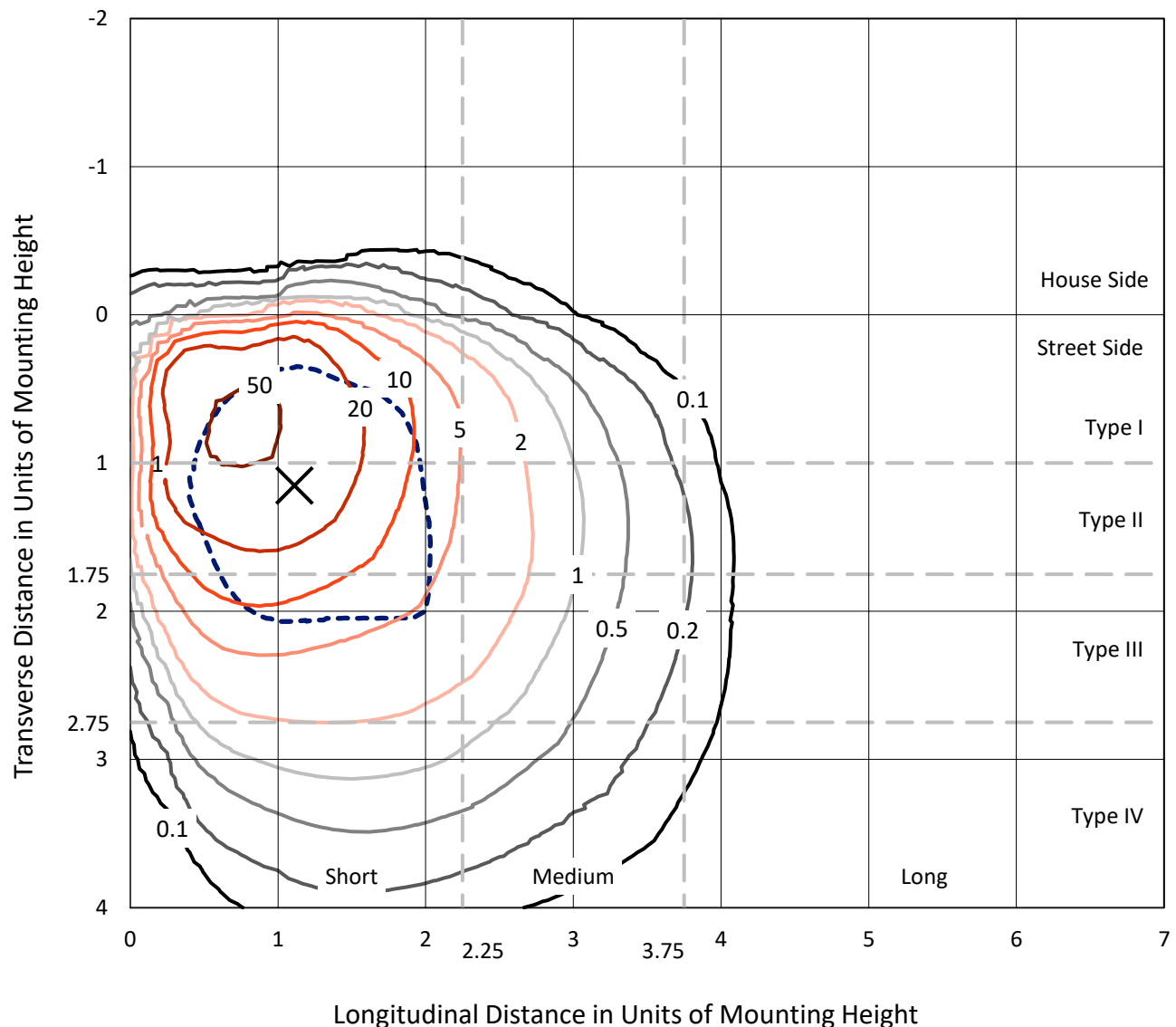
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049747

CATALOG NUMBER: GALN-SA9C-827-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

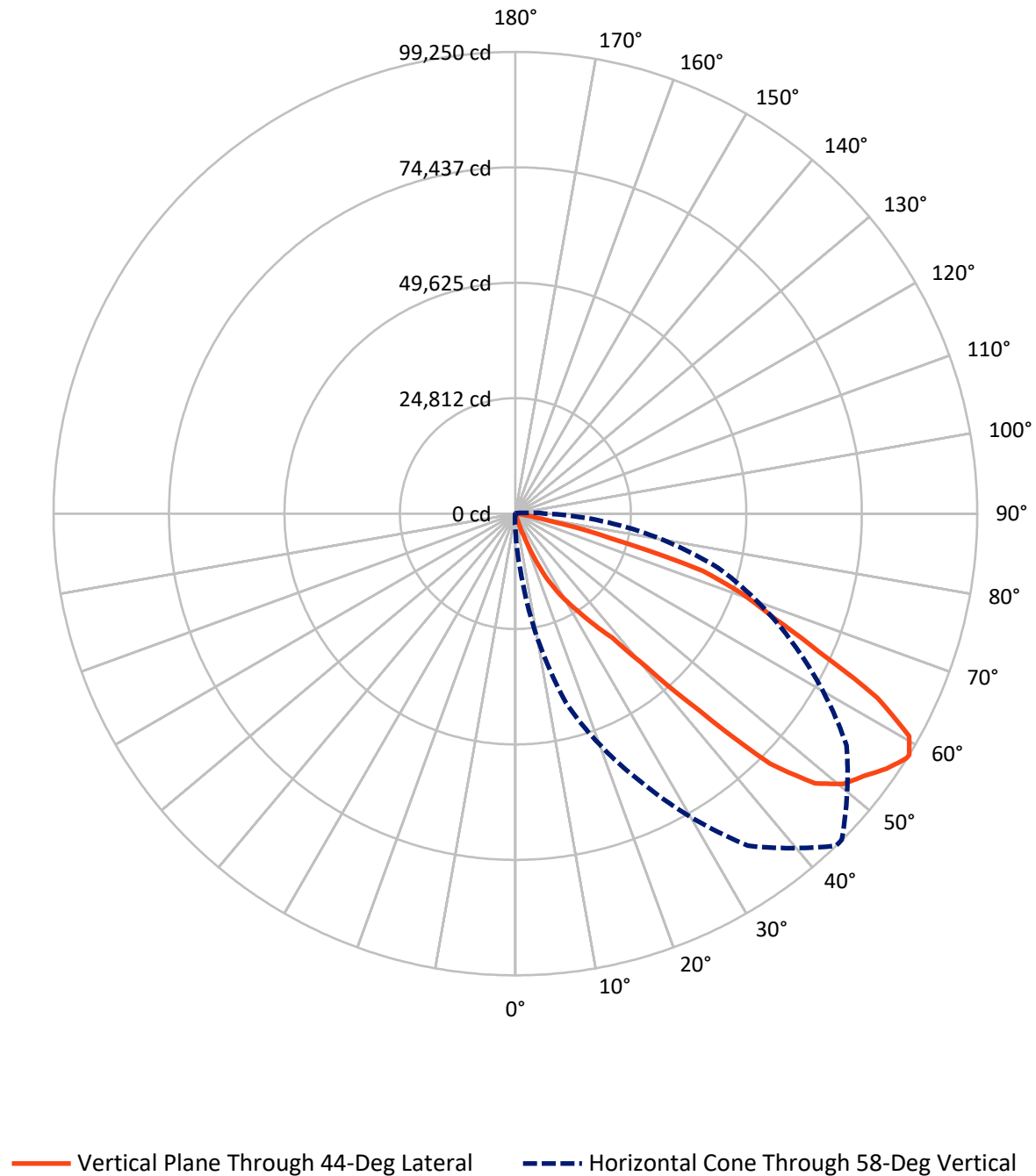
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 67.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1049747
CATALOG NUMBER: GALN-SA9C-827-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049747

CATALOG NUMBER: GALN-SA9C-827-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.2	0.0	264.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	38423.8	0.0	38423.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	38688.0	0.0	38688.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.0
10°-20°	84.8	0.2
20°-30°	916.5	2.4
30°-40°	2710.5	7.0
40°-50°	8078.7	20.9
50°-60°	12818.9	33.1
60°-70°	10692.5	27.6
70°-80°	3297.7	8.5
80°-90°	73.2	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°	38688.0	100.0
0°-180°	38688.0	100.0



REPORT NUMBER: P1049747

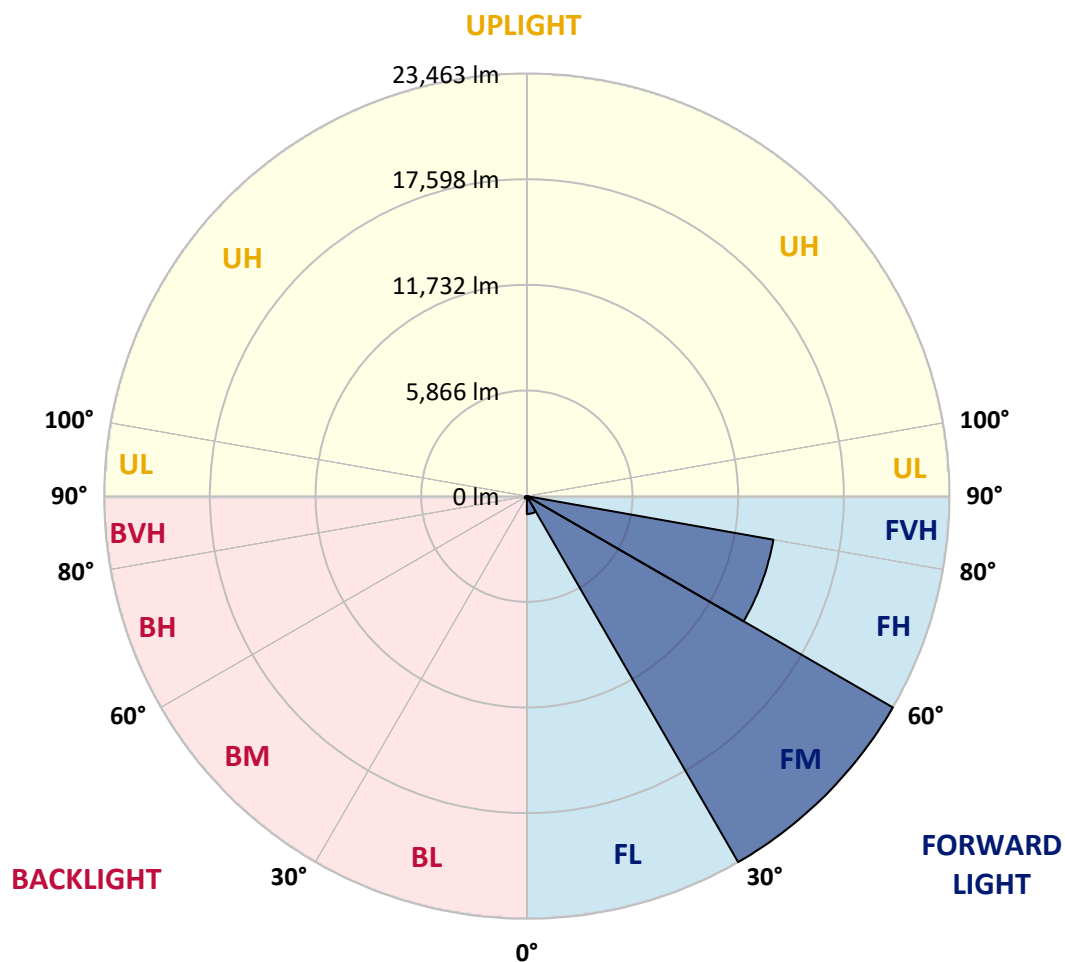
CATALOG NUMBER: GALN-SA9C-827-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.6	2.6			
FM	(30°-60°)	23463.4	60.6			
FH	(60°-80°)	13900.0	35.9			G5
FVH	(80°-90°)	69.7	0.2			G1/100
BL	(0°-30°)	25.8	0.1	B0/110		
BM	(30°-60°)	144.6	0.4	B0/220		
BH	(60°-80°)	90.2	0.2	B0/110		G0/110
BVH	(80°-90°)	3.5	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-G5

Type III Short





REPORT NUMBER: P1049747

CATALOG NUMBER: GALN-SA9C-827-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	219.2	219.2	210.4	198.7	187.0	175.4	172.4	166.6	163.7	160.7
5°	228.0	228.0	225.0	216.3	204.6	195.8	195.8	187.0	181.2	175.4
7.5°	233.8	236.7	242.6	239.6	233.8	225.0	225.0	219.2	210.4	195.8
10°	242.6	251.3	263.0	268.9	271.8	271.8	268.9	266.0	251.3	230.9
12.5°	251.3	268.9	298.1	327.3	344.9	368.2	365.3	359.5	321.5	277.6
15°	268.9	295.2	356.6	441.3	572.8	654.7	686.8	657.6	531.9	374.1
17.5°	289.3	333.2	517.3	923.5	1513.9	1794.4	1964.0	1826.6	1209.9	710.2
20°	309.8	406.2	961.5	2393.6	3927.9	4845.6	5099.8	4702.4	3019.0	1353.1
22.5°	344.9	569.9	1949.3	4947.9	8463.7	9840.2	10100.3	8829.0	5701.9	2671.2
25°	417.9	827.1	3360.9	8063.3	12631.3	14954.7	14846.5	13180.7	9249.9	4266.9
27.5°	523.1	1204.1	5082.3	11456.4	16623.5	18672.2	18917.7	16857.3	12330.2	6274.7
30°	675.1	1668.8	6929.4	14174.4	19823.6	22038.9	22079.9	19949.3	15086.2	8037.0
32.5°	821.2	2107.2	8545.5	16801.7	22977.1	25405.7	25586.9	22965.4	17143.7	9872.4
35°	932.3	2393.6	10182.2	19110.5	26156.8	29503.1	29491.4	26378.9	19581.1	11511.9
37.5°	941.1	2680.0	11663.9	21472.0	30184.1	33930.8	34301.9	30870.9	22527.0	13540.2
40°	920.6	3001.5	13540.2	25154.4	37440.8	43189.4	43516.7	39191.4	28436.4	17012.2
42.5°	944.0	3559.7	16585.5	31955.1	49490.4	57746.6	58377.9	53830.4	39299.5	24096.4
45°	1066.7	4608.9	22965.4	43332.6	66666.2	76731.5	76521.1	69971.6	51939.5	34880.6
47.5°	1473.0	7177.8	32422.7	54406.2	77643.3	86606.8	86788.0	78783.1	59316.0	43171.9
50°	2265.0	10982.9	40369.2	60260.0	82363.2	91355.9	91186.4	81936.6	62118.8	47254.7
52.5°	2945.9	13736.0	44355.5	62314.6	82968.2	93702.7	93691.0	82766.6	62554.2	47605.4
55°	3115.4	13943.5	44387.7	62425.6	84324.3	96774.3	97160.1	84809.4	63118.3	46074.0
57.5°	3048.2	12344.8	42534.8	63068.6	86738.3	99150.4	99170.8	86788.0	64550.3	45135.8
58°	2989.8	12093.5	42160.7	63433.9	87153.3	99249.7	99200.0	86878.6	65716.4	45100.8
60°	2662.4	10500.7	40702.3	64366.2	86536.6	97209.8	96745.1	84900.0	65544.0	44741.3
62.5°	2092.5	8191.9	39267.4	63287.8	79925.8	87334.5	87527.4	75165.0	59751.5	42645.8
65°	1665.9	6105.2	36274.7	55513.8	65815.8	71719.3	72438.3	61122.2	49873.3	36111.0
67.5°	1326.8	4413.0	30429.6	44197.7	52079.8	59856.7	60379.8	51317.0	38639.0	27667.8
70°	1078.4	2983.9	21004.4	32323.4	42955.6	51699.9	51732.0	42631.2	28839.7	18128.6
72.5°	955.7	2066.2	12192.9	23573.3	34830.9	42128.5	41278.1	34594.2	22164.6	10737.4
75°	827.1	1370.7	5979.5	14411.1	21118.3	21261.5	21585.9	16047.7	11079.4	5105.7
77.5°	681.0	973.2	2355.6	3936.7	6333.2	8107.1	8408.2	6371.2	3685.3	1256.7
80°	467.6	461.8	634.2	1207.0	1812.0	2270.8	2118.8	1639.5	964.4	482.2
82.5°	201.7	219.2	286.4	344.9	280.6	271.8	260.1	166.6	128.6	99.4
85°	64.3	58.5	61.4	61.4	49.7	38.0	38.0	17.5	0.0	0.0
87.5°	32.1	26.3	26.3	23.4	14.6	5.8	2.9	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



REPORT NUMBER: P1049747

CATALOG NUMBER: GALN-SA9C-827-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
169.5	0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
157.8	2.5°	154.9	154.9	149.0	143.2	140.3	134.4	131.5	128.6	125.7	122.7
169.5	5°	163.7	160.7	152.0	143.2	134.4	125.7	119.8	114.0	108.1	105.2
187.0	7.5°	178.3	172.4	154.9	140.3	128.6	116.9	111.1	102.3	96.4	87.7
207.5	10°	195.8	184.1	160.7	143.2	125.7	111.1	102.3	93.5	84.8	73.1
236.7	12.5°	219.2	198.7	169.5	140.3	119.8	102.3	93.5	81.8	73.1	64.3
274.7	15°	239.6	213.3	172.4	140.3	114.0	93.5	81.8	70.1	61.4	49.7
344.9	17.5°	268.9	225.0	169.5	131.5	105.2	81.8	70.1	61.4	46.8	29.2
511.4	20°	318.6	233.8	163.7	122.7	90.6	67.2	52.6	40.9	20.5	5.8
768.6	22.5°	397.5	257.2	157.8	111.1	78.9	52.6	35.1	14.6	0.0	0.0
1169.0	25°	549.4	298.1	157.8	105.2	70.1	38.0	11.7	0.0	0.0	0.0
1660.0	27.5°	730.6	353.6	157.8	90.6	55.5	20.5	0.0	0.0	0.0	0.0
2262.1	30°	914.8	415.0	157.8	78.9	43.8	2.9	0.0	0.0	0.0	0.0
2785.2	32.5°	1090.1	467.6	160.7	67.2	29.2	0.0	0.0	0.0	0.0	0.0
3510.0	35°	1268.4	476.4	157.8	58.5	17.5	0.0	0.0	0.0	0.0	0.0
4398.4	37.5°	1496.3	458.8	149.0	52.6	8.8	0.0	0.0	0.0	0.0	0.0
5786.6	40°	1841.2	467.6	140.3	49.7	2.9	0.0	0.0	0.0	0.0	0.0
8262.0	42.5°	2478.3	505.6	128.6	49.7	0.0	0.0	0.0	0.0	0.0	0.0
13160.2	45°	4284.5	678.0	116.9	52.6	0.0	0.0	0.0	0.0	0.0	0.0
19756.4	47.5°	7087.2	1218.7	114.0	52.6	0.0	0.0	0.0	0.0	0.0	0.0
23798.3	50°	9045.3	1534.3	119.8	55.5	0.0	0.0	0.0	0.0	0.0	0.0
24303.9	52.5°	9030.7	1709.7	125.7	58.5	11.7	0.0	0.0	0.0	0.0	0.0
22401.3	55°	8028.2	1741.8	134.4	64.3	38.0	0.0	0.0	0.0	0.0	0.0
19250.8	57.5°	6710.2	1589.9	154.9	78.9	70.1	0.0	0.0	0.0	0.0	0.0
18756.9	58°	6476.4	1519.7	160.7	81.8	76.0	0.0	0.0	0.0	0.0	0.0
16269.8	60°	5307.3	1239.2	204.6	102.3	102.3	0.0	0.0	0.0	0.0	0.0
13338.5	62.5°	3664.9	1081.3	233.8	131.5	105.2	0.0	0.0	0.0	0.0	0.0
9834.4	65°	2592.3	976.1	254.3	140.3	84.8	0.0	0.0	0.0	0.0	0.0
6987.8	67.5°	1937.6	900.1	280.6	143.2	43.8	0.0	0.0	0.0	0.0	0.0
4383.8	70°	1484.7	844.6	344.9	152.0	11.7	0.0	0.0	0.0	0.0	0.0
2612.8	72.5°	1209.9	780.3	417.9	157.8	0.0	0.0	0.0	0.0	0.0	0.0
1566.5	75°	1002.4	704.3	403.3	172.4	0.0	0.0	0.0	0.0	0.0	0.0
835.8	77.5°	666.3	546.5	368.2	172.4	0.0	0.0	0.0	0.0	0.0	0.0
298.1	80°	233.8	216.3	286.4	152.0	0.0	0.0	0.0	0.0	0.0	0.0
61.4	82.5°	35.1	29.2	40.9	52.6	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

REPORT NUMBER: P1049747

CATALOG NUMBER: GALN-SA9C-827-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
169.5	0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
119.8	2.5°	119.8	119.8	116.9	119.8	119.8	125.7	140.3	160.7	184.1	192.9
102.3	5°	99.4	96.4	93.5	93.5	93.5	102.3	114.0	137.4	163.7	175.4
84.8	7.5°	81.8	78.9	76.0	73.1	73.1	78.9	93.5	119.8	146.1	157.8
70.1	10°	67.2	61.4	58.5	55.5	55.5	61.4	76.0	102.3	131.5	143.2
58.5	12.5°	55.5	46.8	40.9	38.0	35.1	43.8	58.5	81.8	114.0	128.6
43.8	15°	38.0	29.2	20.5	17.5	14.6	23.4	38.0	64.3	96.4	114.0
23.4	17.5°	20.5	8.8	2.9	0.0	0.0	5.8	17.5	46.8	78.9	93.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	58.5	73.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	35.1	49.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	26.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
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	8.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	23.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1049747

CATALOG NUMBER: GALN-SA9C-827-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
169.5	0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
201.7	2.5°	207.5	204.6	198.7	192.9	192.9	192.9	201.7	210.4	219.2	219.2
181.2	5°	192.9	192.9	190.0	184.1	184.1	187.0	198.7	213.3	225.0	228.0
166.6	7.5°	178.3	184.1	178.3	175.4	178.3	181.2	192.9	210.4	228.0	233.8
154.9	10°	169.5	172.4	172.4	169.5	169.5	175.4	187.0	210.4	233.8	242.6
140.3	12.5°	157.8	163.7	160.7	160.7	160.7	166.6	181.2	207.5	239.6	251.3
125.7	15°	146.1	154.9	154.9	152.0	152.0	154.9	175.4	204.6	248.4	268.9
108.1	17.5°	134.4	143.2	146.1	140.3	140.3	146.1	166.6	204.6	254.3	289.3
87.7	20°	111.1	125.7	134.4	125.7	125.7	131.5	152.0	192.9	257.2	309.8
64.3	22.5°	87.7	102.3	114.0	111.1	111.1	114.0	140.3	184.1	260.1	344.9
38.0	25°	64.3	78.9	87.7	93.5	93.5	102.3	128.6	178.3	271.8	417.9
17.5	27.5°	38.0	55.5	67.2	73.1	76.0	87.7	119.8	172.4	292.3	523.1
0.0	30°	17.5	32.1	46.8	58.5	58.5	78.9	111.1	166.6	318.6	675.1
0.0	32.5°	0.0	14.6	23.4	40.9	43.8	64.3	102.3	160.7	356.6	821.2
0.0	35°	0.0	0.0	11.7	32.1	32.1	52.6	93.5	154.9	415.0	932.3
0.0	37.5°	0.0	0.0	0.0	23.4	26.3	46.8	90.6	152.0	426.7	941.1
0.0	40°	0.0	0.0	0.0	17.5	20.5	43.8	90.6	154.9	385.8	920.6
0.0	42.5°	0.0	0.0	0.0	11.7	14.6	43.8	90.6	160.7	347.8	944.0
0.0	45°	0.0	0.0	0.0	8.8	11.7	46.8	87.7	157.8	327.3	1066.7
0.0	47.5°	0.0	0.0	0.0	11.7	17.5	46.8	84.8	154.9	330.2	1473.0
0.0	50°	0.0	0.0	0.0	14.6	20.5	46.8	87.7	149.0	362.4	2265.0
0.0	52.5°	0.0	0.0	0.0	11.7	17.5	52.6	96.4	146.1	394.5	2945.9
0.0	55°	0.0	0.0	0.0	2.9	8.8	67.2	105.2	146.1	444.2	3115.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	76.0	119.8	154.9	526.1	3048.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	76.0	122.7	154.9	531.9	2989.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	76.0	134.4	172.4	572.8	2662.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	64.3	160.7	216.3	596.2	2092.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	52.6	190.0	236.7	613.7	1665.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	49.7	195.8	239.6	622.5	1326.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	52.6	192.9	257.2	651.7	1078.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	58.5	175.4	283.5	651.7	955.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	61.4	163.7	318.6	593.3	827.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	58.5	160.7	371.2	529.0	681.0
0.0	80°	5.8	8.8	8.8	5.8	5.8	49.7	157.8	377.0	450.1	467.6
2.9	82.5°	17.5	23.4	20.5	14.6	14.6	43.8	140.3	315.6	233.8	201.7
17.5	85°	32.1	38.0	38.0	32.1	32.1	40.9	87.7	114.0	78.9	64.3
32.1	87.5°	43.8	49.7	49.7	43.8	43.8	40.9	38.0	35.1	32.1	32.1
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

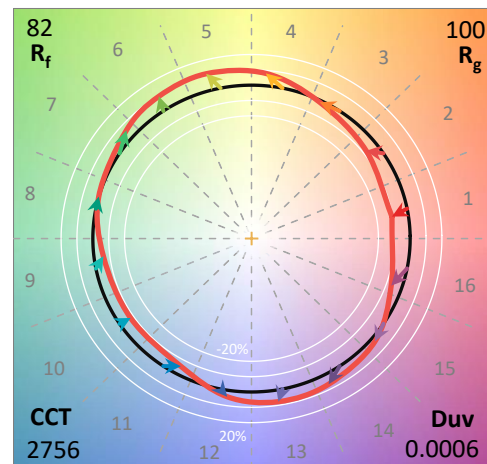
Test Information

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

REPORT NUMBER: SP1-2407-184-8

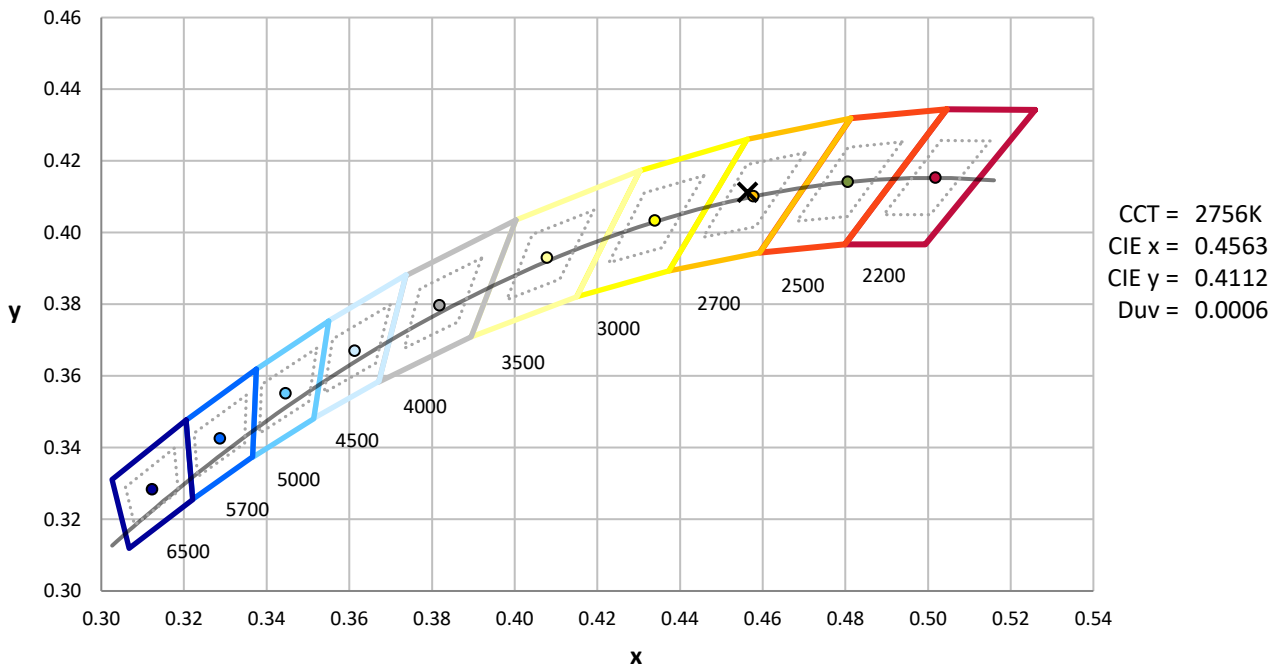
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



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			

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

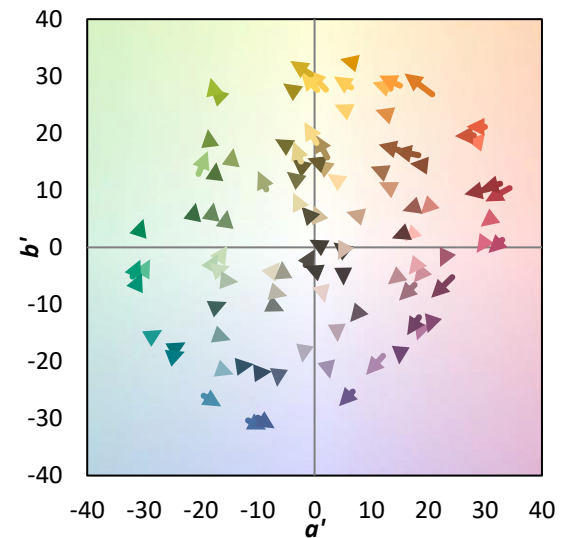
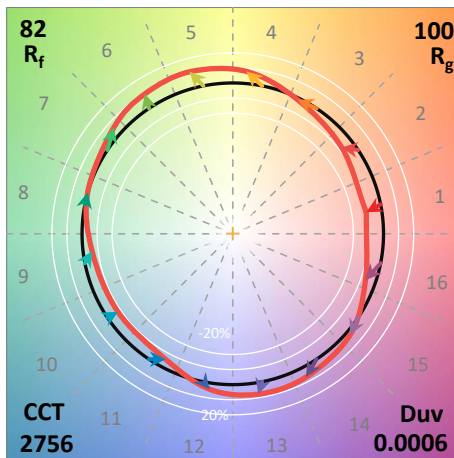
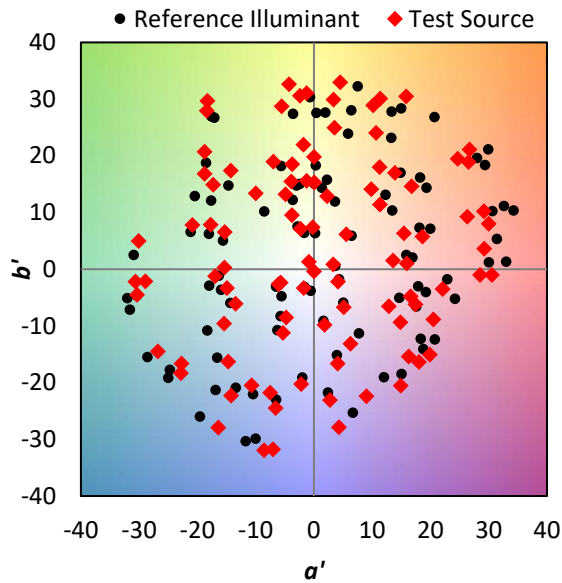
TM-30-18

Summary

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

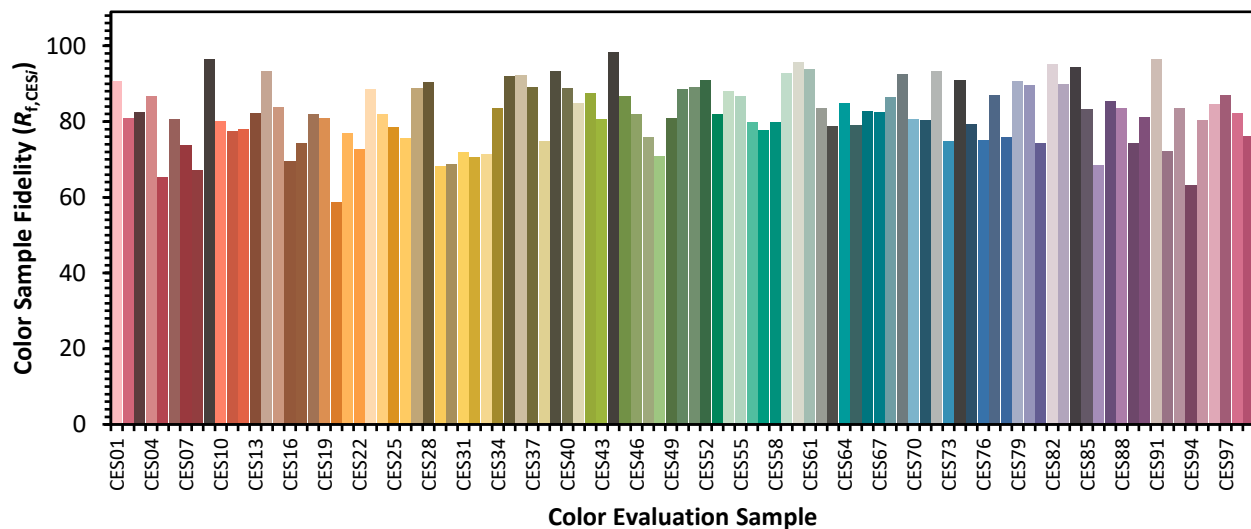


Color Vector Graphics

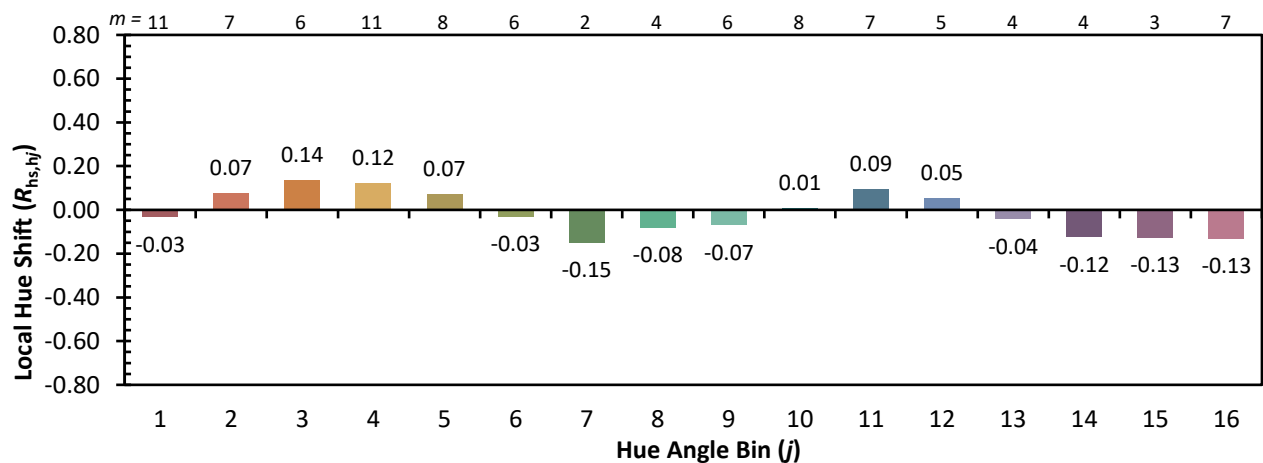


Individual Sample Fidelity Index ($R_{f,i}$)

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)