

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: P1049721

Luminaire Tested: **GALN-SA3A-827-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049721
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8609.2 lumens
Efficiency: N/A
Efficacy: 105.8 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): 81.4
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

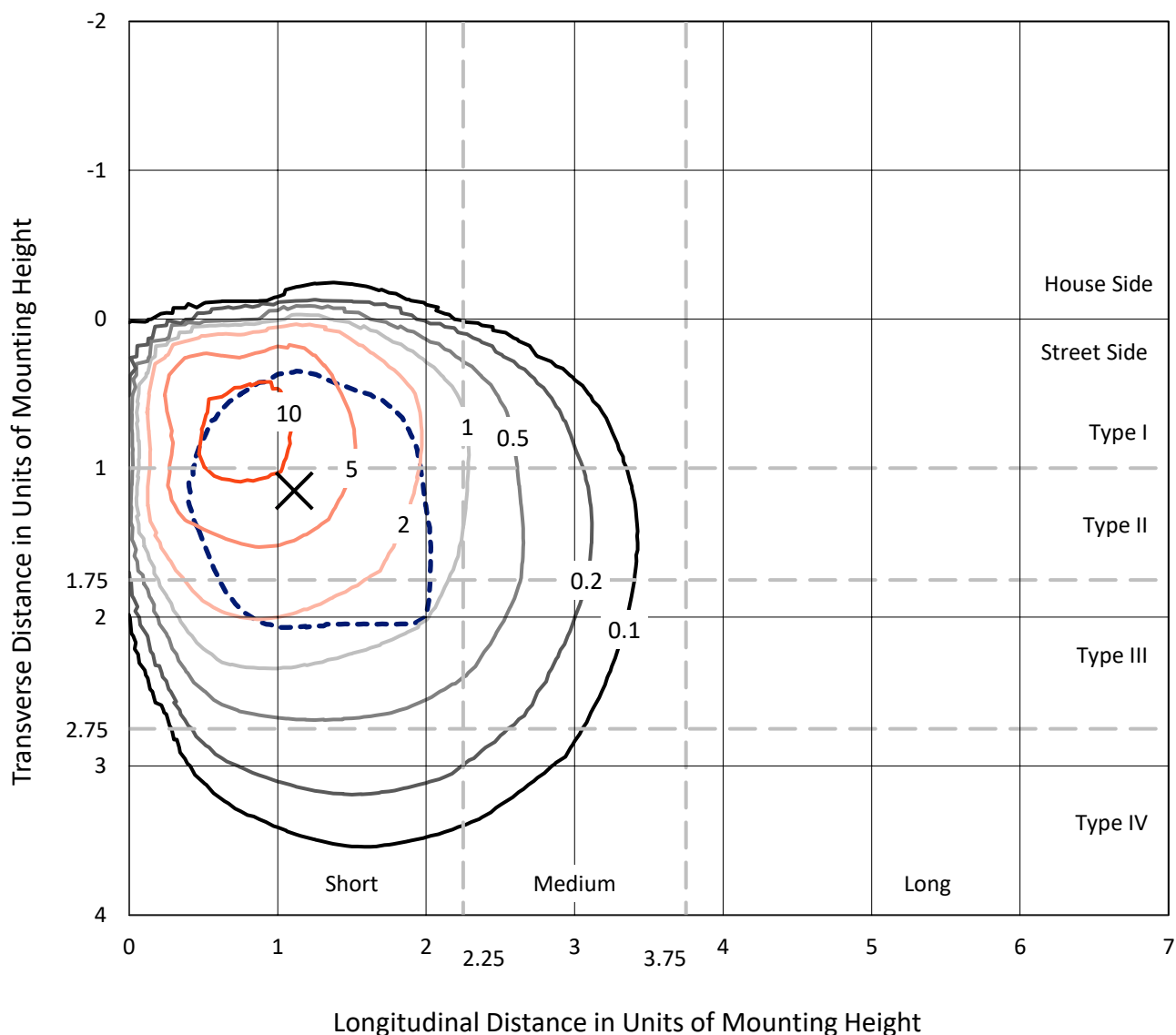
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

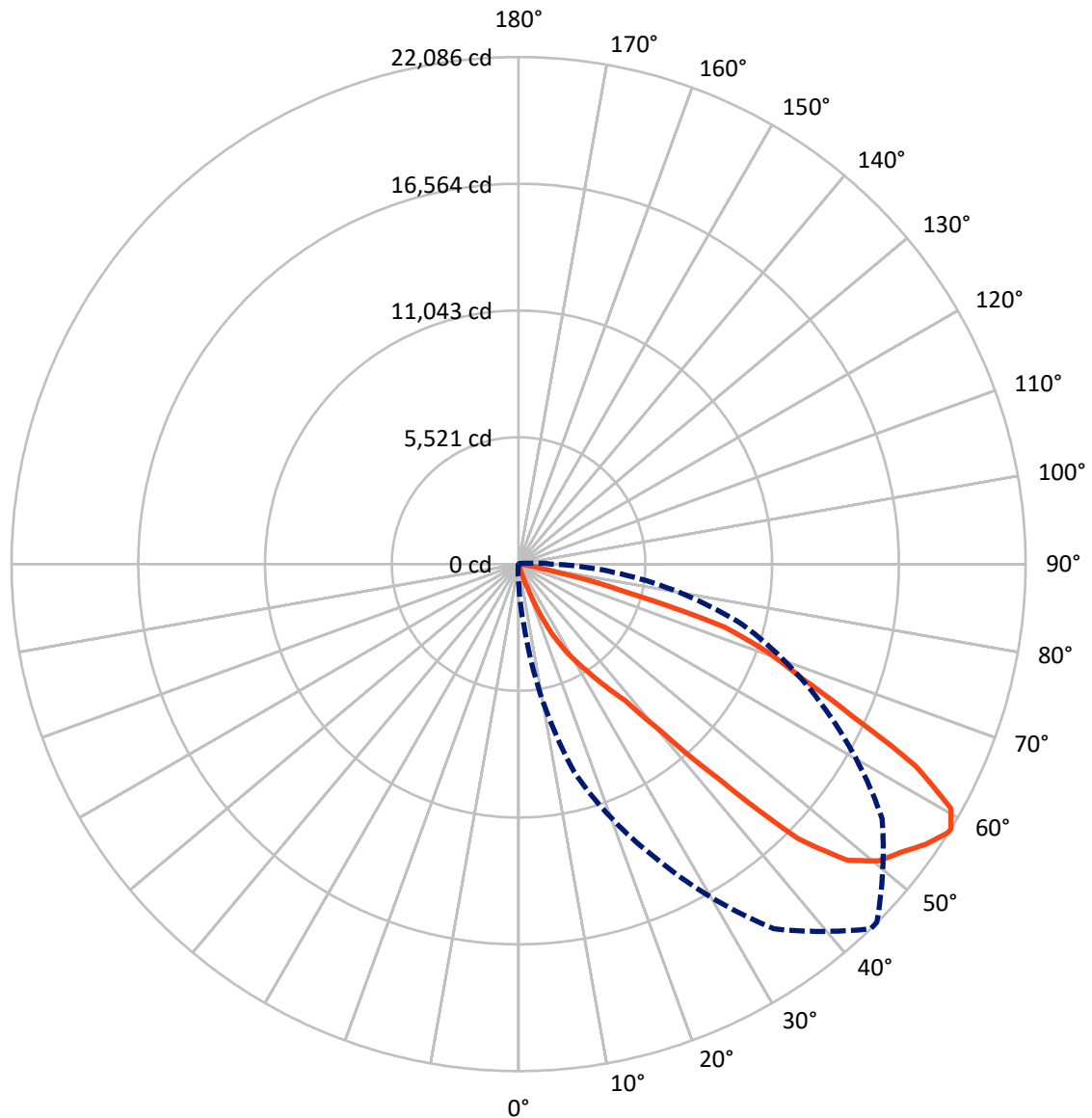


Based on 20 foot mounting height. Maximum calculated value = 15 fc

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	58.8	0.0	58.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8550.4	0.0	8550.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	8609.2	0.0	8609.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.0
10°-20°	18.9	0.2
20°-30°	204.0	2.4
30°-40°	603.2	7.0
40°-50°	1797.7	20.9
50°-60°	2852.6	33.1
60°-70°	2379.4	27.6
70°-80°	733.8	8.5
80°-90°	16.3	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°	8609.2	100.0
0°-180°	8609.2	100.0

Coefficient of Utilization



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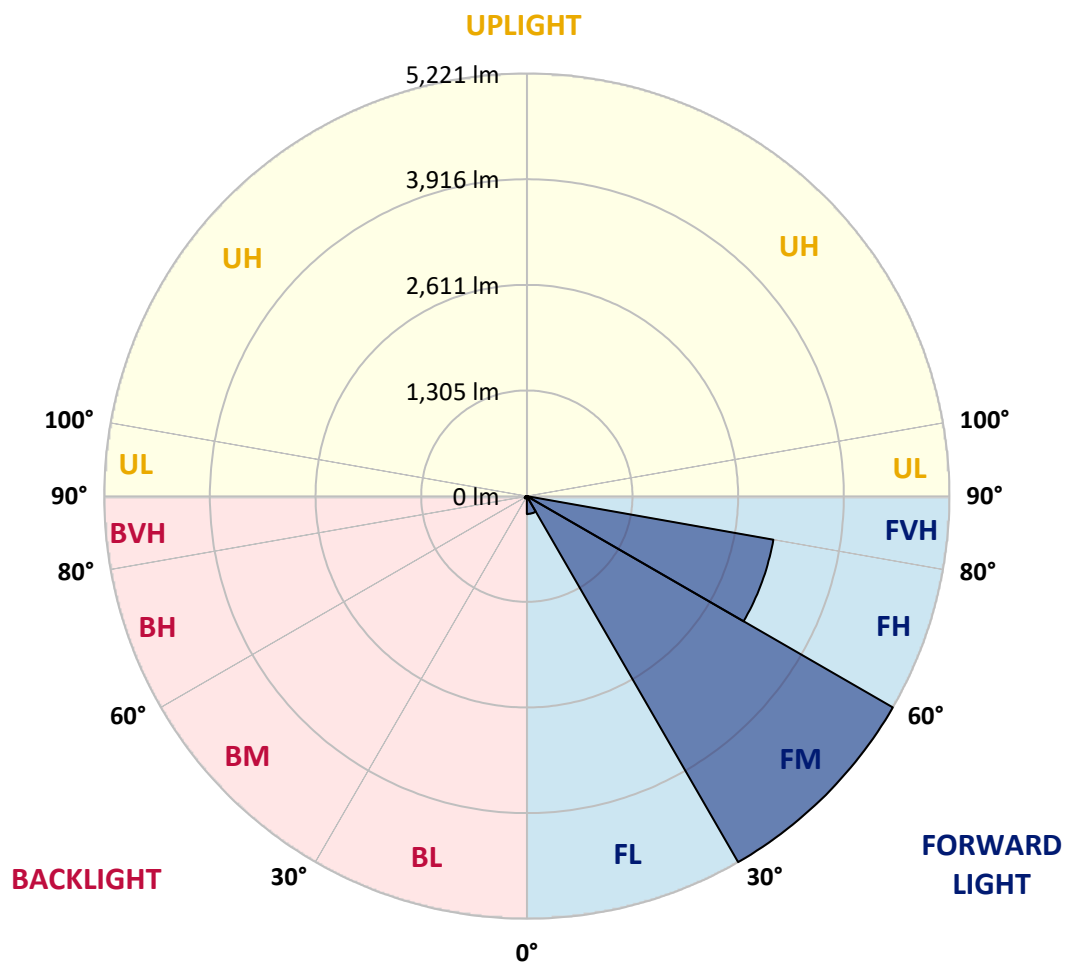
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.4	2.6			
FM	(30°-60°)	5221.3	60.6			
FH	(60°-80°)	3093.1	35.9			G2/5000
FVH	(80°-90°)	15.5	0.2			G1/100
BL	(0°-30°)	5.8	0.1	B0/110		
BM	(30°-60°)	32.2	0.4	B0/220		
BH	(60°-80°)	20.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
2.5°	48.8	48.8	46.8	44.2	41.6	39.0	38.4	37.1	36.4	35.8
5°	50.7	50.7	50.1	48.1	45.5	43.6	43.6	41.6	40.3	39.0
7.5°	52.0	52.7	54.0	53.3	52.0	50.1	50.1	48.8	46.8	43.6
10°	54.0	55.9	58.5	59.8	60.5	60.5	59.8	59.2	55.9	51.4
12.5°	55.9	59.8	66.3	72.8	76.7	81.9	81.3	80.0	71.5	61.8
15°	59.8	65.7	79.3	98.2	127.5	145.7	152.8	146.3	118.4	83.2
17.5°	64.4	74.1	115.1	205.5	336.9	399.3	437.0	406.5	269.2	158.0
20°	68.9	90.4	214.0	532.6	874.1	1078.3	1134.9	1046.4	671.8	301.1
22.5°	76.7	126.8	433.8	1101.0	1883.4	2189.7	2247.6	1964.7	1268.8	594.4
25°	93.0	184.0	747.9	1794.3	2810.8	3327.8	3303.8	2933.1	2058.3	949.5
27.5°	116.4	267.9	1131.0	2549.4	3699.2	4155.1	4209.7	3751.2	2743.8	1396.3
30°	150.2	371.3	1542.0	3154.2	4411.3	4904.3	4913.4	4439.3	3357.1	1788.5
32.5°	182.7	468.9	1901.6	3738.8	5113.0	5653.5	5693.8	5110.4	3814.9	2196.9
35°	207.5	532.6	2265.8	4252.6	5820.6	6565.3	6562.7	5870.0	4357.3	2561.7
37.5°	209.4	596.4	2595.5	4778.1	6716.8	7550.5	7633.1	6869.6	5012.9	3013.1
40°	204.9	667.9	3013.1	5597.5	8331.6	9610.8	9683.7	8721.2	6327.9	3785.7
42.5°	210.1	792.1	3690.7	7110.9	11013.0	12850.2	12990.7	11978.7	8745.2	5362.1
45°	237.4	1025.6	5110.4	9642.7	14835.1	17074.9	17028.0	15570.6	11558.0	7761.9
47.5°	327.8	1597.3	7215.0	12106.9	17277.8	19272.4	19312.7	17531.4	13199.4	9606.9
50°	504.0	2444.0	8983.2	13409.5	18328.1	20329.2	20291.5	18233.1	13823.1	10515.5
52.5°	655.5	3056.6	9870.3	13866.7	18462.7	20851.4	20848.8	18417.8	13920.0	10593.5
55°	693.3	3102.8	9877.5	13891.4	18764.5	21534.9	21620.8	18872.4	14045.5	10252.7
57.5°	678.3	2747.1	9465.2	14034.5	19301.7	22063.7	22068.2	19312.7	14364.2	10044.0
58°	665.3	2691.1	9381.9	14115.8	19394.0	22085.8	22074.7	19332.9	14623.7	10036.2
60°	592.5	2336.7	9057.4	14323.2	19256.8	21631.8	21528.4	18892.6	14585.3	9956.2
62.5°	465.6	1822.9	8738.1	14083.3	17785.7	19434.3	19477.2	16726.3	13296.3	9489.9
65°	370.7	1358.6	8072.1	12353.3	14645.8	15959.5	16119.5	13601.4	11098.2	8035.7
67.5°	295.3	982.0	6771.4	9835.2	11589.2	13319.8	13436.2	11419.4	8598.2	6156.8
70°	240.0	664.0	4674.0	7192.8	9558.8	11504.6	11511.8	9486.6	6417.6	4034.1
72.5°	212.7	459.8	2713.2	5245.7	7750.8	9374.8	9185.5	7698.2	4932.2	2389.4
75°	184.0	305.0	1330.6	3206.9	4699.4	4731.3	4803.5	3571.1	2465.5	1136.2
77.5°	151.5	216.6	524.2	876.0	1409.3	1804.1	1871.0	1417.8	820.1	279.6
80°	104.1	102.8	141.1	268.6	403.2	505.3	471.5	364.8	214.6	107.3
82.5°	44.9	48.8	63.7	76.7	62.4	60.5	57.9	37.1	28.6	22.1
85°	14.3	13.0	13.7	13.7	11.1	8.5	8.5	3.9	0.0	0.0
87.5°	7.2	5.9	5.9	5.2	3.3	1.3	0.7	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°
37.7	0°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
35.1	2.5°	34.5	34.5	33.2	31.9	31.2	29.9	29.3	28.6	28.0	27.3
37.7	5°	36.4	35.8	33.8	31.9	29.9	28.0	26.7	25.4	24.1	23.4
41.6	7.5°	39.7	38.4	34.5	31.2	28.6	26.0	24.7	22.8	21.5	19.5
46.2	10°	43.6	41.0	35.8	31.9	28.0	24.7	22.8	20.8	18.9	16.3
52.7	12.5°	48.8	44.2	37.7	31.2	26.7	22.8	20.8	18.2	16.3	14.3
61.1	15°	53.3	47.5	38.4	31.2	25.4	20.8	18.2	15.6	13.7	11.1
76.7	17.5°	59.8	50.1	37.7	29.3	23.4	18.2	15.6	13.7	10.4	6.5
113.8	20°	70.9	52.0	36.4	27.3	20.2	15.0	11.7	9.1	4.6	1.3
171.0	22.5°	88.4	57.2	35.1	24.7	17.6	11.7	7.8	3.3	0.0	0.0
260.1	25°	122.3	66.3	35.1	23.4	15.6	8.5	2.6	0.0	0.0	0.0
369.4	27.5°	162.6	78.7	35.1	20.2	12.4	4.6	0.0	0.0	0.0	0.0
503.4	30°	203.6	92.3	35.1	17.6	9.8	0.7	0.0	0.0	0.0	0.0
619.8	32.5°	242.6	104.1	35.8	15.0	6.5	0.0	0.0	0.0	0.0	0.0
781.1	35°	282.3	106.0	35.1	13.0	3.9	0.0	0.0	0.0	0.0	0.0
978.8	37.5°	333.0	102.1	33.2	11.7	2.0	0.0	0.0	0.0	0.0	0.0
1287.7	40°	409.7	104.1	31.2	11.1	0.7	0.0	0.0	0.0	0.0	0.0
1838.5	42.5°	551.5	112.5	28.6	11.1	0.0	0.0	0.0	0.0	0.0	0.0
2928.5	45°	953.4	150.9	26.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0
4396.3	47.5°	1577.1	271.2	25.4	11.7	0.0	0.0	0.0	0.0	0.0	0.0
5295.8	50°	2012.8	341.4	26.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0
5408.3	52.5°	2009.6	380.5	28.0	13.0	2.6	0.0	0.0	0.0	0.0	0.0
4984.9	55°	1786.5	387.6	29.9	14.3	8.5	0.0	0.0	0.0	0.0	0.0
4283.8	57.5°	1493.2	353.8	34.5	17.6	15.6	0.0	0.0	0.0	0.0	0.0
4173.9	58°	1441.2	338.2	35.8	18.2	16.9	0.0	0.0	0.0	0.0	0.0
3620.5	60°	1181.0	275.7	45.5	22.8	22.8	0.0	0.0	0.0	0.0	0.0
2968.2	62.5°	815.5	240.6	52.0	29.3	23.4	0.0	0.0	0.0	0.0	0.0
2188.4	65°	576.9	217.2	56.6	31.2	18.9	0.0	0.0	0.0	0.0	0.0
1555.0	67.5°	431.2	200.3	62.4	31.9	9.8	0.0	0.0	0.0	0.0	0.0
975.5	70°	330.4	188.0	76.7	33.8	2.6	0.0	0.0	0.0	0.0	0.0
581.4	72.5°	269.2	173.6	93.0	35.1	0.0	0.0	0.0	0.0	0.0	0.0
348.6	75°	223.1	156.7	89.7	38.4	0.0	0.0	0.0	0.0	0.0	0.0
186.0	77.5°	148.3	121.6	81.9	38.4	0.0	0.0	0.0	0.0	0.0	0.0
66.3	80°	52.0	48.1	63.7	33.8	0.0	0.0	0.0	0.0	0.0	0.0
13.7	82.5°	7.8	6.5	9.1	11.7	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°
37.7	0°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
26.7	2.5°	26.7	26.7	26.0	26.7	26.7	28.0	31.2	35.8	41.0	42.9
22.8	5°	22.1	21.5	20.8	20.8	20.8	22.8	25.4	30.6	36.4	39.0
18.9	7.5°	18.2	17.6	16.9	16.3	16.3	17.6	20.8	26.7	32.5	35.1
15.6	10°	15.0	13.7	13.0	12.4	12.4	13.7	16.9	22.8	29.3	31.9
13.0	12.5°	12.4	10.4	9.1	8.5	7.8	9.8	13.0	18.2	25.4	28.6
9.8	15°	8.5	6.5	4.6	3.9	3.3	5.2	8.5	14.3	21.5	25.4
5.2	17.5°	4.6	2.0	0.7	0.0	0.0	1.3	3.9	10.4	17.6	20.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	13.0	16.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.8	11.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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	2.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.2
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°
37.7	0°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
44.9	2.5°	46.2	45.5	44.2	42.9	42.9	42.9	44.9	46.8	48.8	48.8
40.3	5°	42.9	42.9	42.3	41.0	41.0	41.6	44.2	47.5	50.1	50.7
37.1	7.5°	39.7	41.0	39.7	39.0	39.7	40.3	42.9	46.8	50.7	52.0
34.5	10°	37.7	38.4	38.4	37.7	37.7	39.0	41.6	46.8	52.0	54.0
31.2	12.5°	35.1	36.4	35.8	35.8	35.8	37.1	40.3	46.2	53.3	55.9
28.0	15°	32.5	34.5	34.5	33.8	33.8	34.5	39.0	45.5	55.3	59.8
24.1	17.5°	29.9	31.9	32.5	31.2	31.2	32.5	37.1	45.5	56.6	64.4
19.5	20°	24.7	28.0	29.9	28.0	28.0	29.3	33.8	42.9	57.2	68.9
14.3	22.5°	19.5	22.8	25.4	24.7	24.7	25.4	31.2	41.0	57.9	76.7
8.5	25°	14.3	17.6	19.5	20.8	20.8	22.8	28.6	39.7	60.5	93.0
3.9	27.5°	8.5	12.4	15.0	16.3	16.9	19.5	26.7	38.4	65.0	116.4
0.0	30°	3.9	7.2	10.4	13.0	13.0	17.6	24.7	37.1	70.9	150.2
0.0	32.5°	0.0	3.3	5.2	9.1	9.8	14.3	22.8	35.8	79.3	182.7
0.0	35°	0.0	0.0	2.6	7.2	7.2	11.7	20.8	34.5	92.3	207.5
0.0	37.5°	0.0	0.0	0.0	5.2	5.9	10.4	20.2	33.8	95.0	209.4
0.0	40°	0.0	0.0	0.0	3.9	4.6	9.8	20.2	34.5	85.8	204.9
0.0	42.5°	0.0	0.0	0.0	2.6	3.3	9.8	20.2	35.8	77.4	210.1
0.0	45°	0.0	0.0	0.0	2.0	2.6	10.4	19.5	35.1	72.8	237.4
0.0	47.5°	0.0	0.0	0.0	2.6	3.9	10.4	18.9	34.5	73.5	327.8
0.0	50°	0.0	0.0	0.0	3.3	4.6	10.4	19.5	33.2	80.6	504.0
0.0	52.5°	0.0	0.0	0.0	2.6	3.9	11.7	21.5	32.5	87.8	655.5
0.0	55°	0.0	0.0	0.0	0.7	2.0	15.0	23.4	32.5	98.9	693.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	16.9	26.7	34.5	117.1	678.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	16.9	27.3	34.5	118.4	665.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	16.9	29.9	38.4	127.5	592.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	14.3	35.8	48.1	132.7	465.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	11.7	42.3	52.7	136.6	370.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	11.1	43.6	53.3	138.5	295.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	11.7	42.9	57.2	145.0	240.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	13.0	39.0	63.1	145.0	212.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	13.7	36.4	70.9	132.0	184.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	13.0	35.8	82.6	117.7	151.5
0.0	80°	1.3	2.0	2.0	1.3	1.3	11.1	35.1	83.9	100.2	104.1
0.7	82.5°	3.9	5.2	4.6	3.3	3.3	9.8	31.2	70.2	52.0	44.9
3.9	85°	7.2	8.5	8.5	7.2	7.2	9.1	19.5	25.4	17.6	14.3
7.2	87.5°	9.8	11.1	11.1	9.8	9.8	9.1	8.5	7.8	7.2	7.2
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

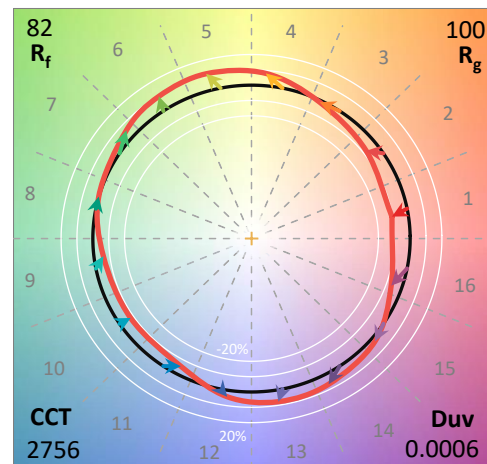
Test Information

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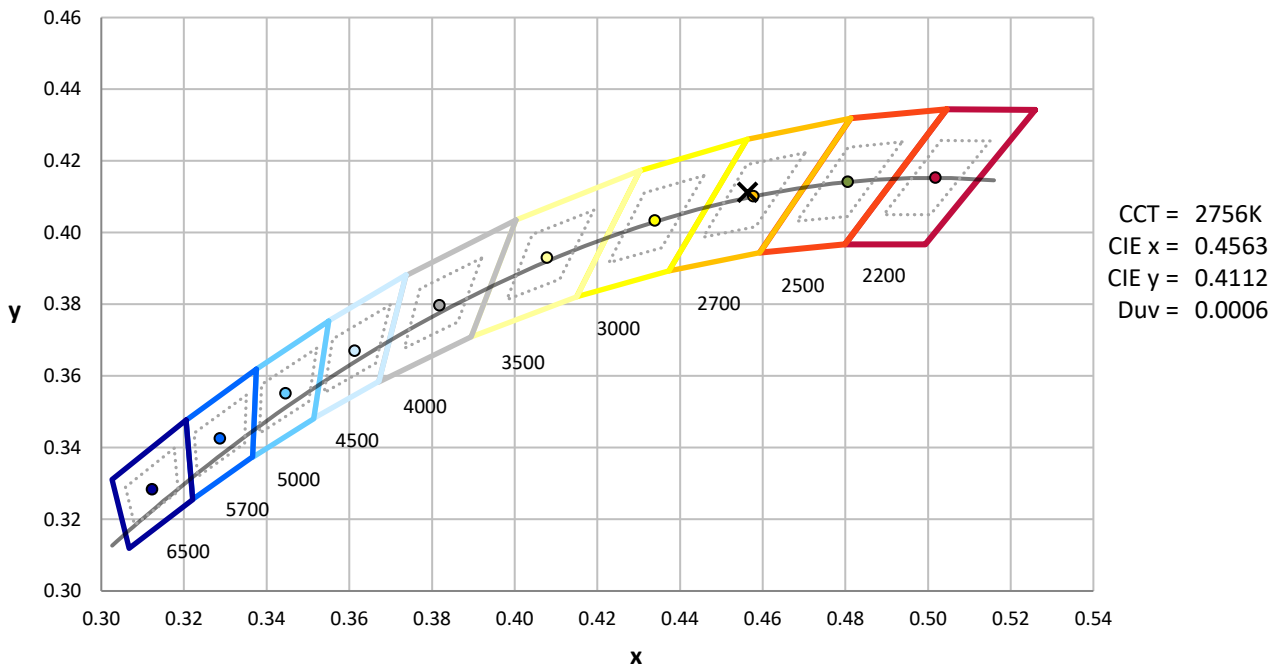
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



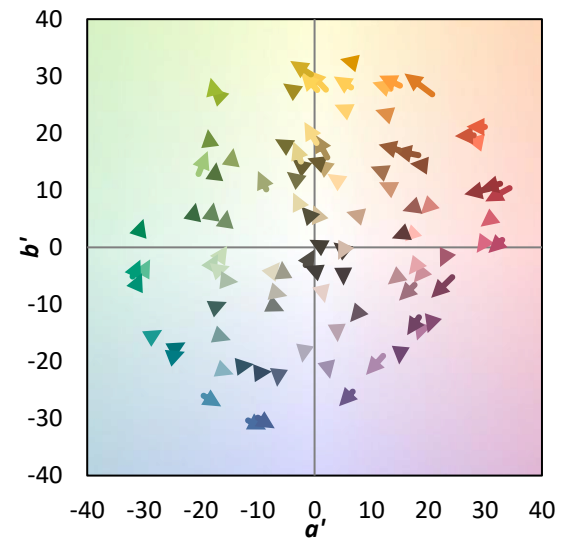
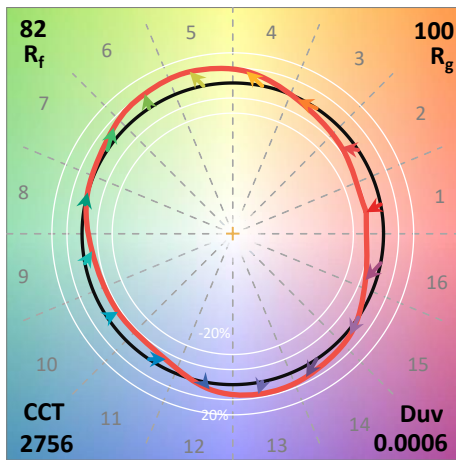
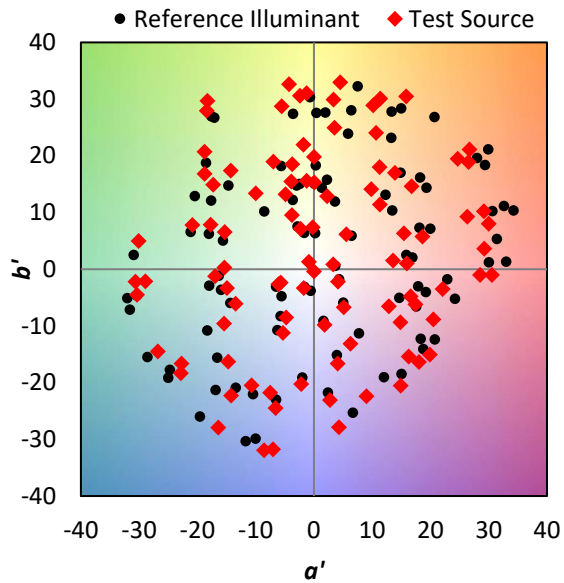
Melanopic Lumens: NR

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			

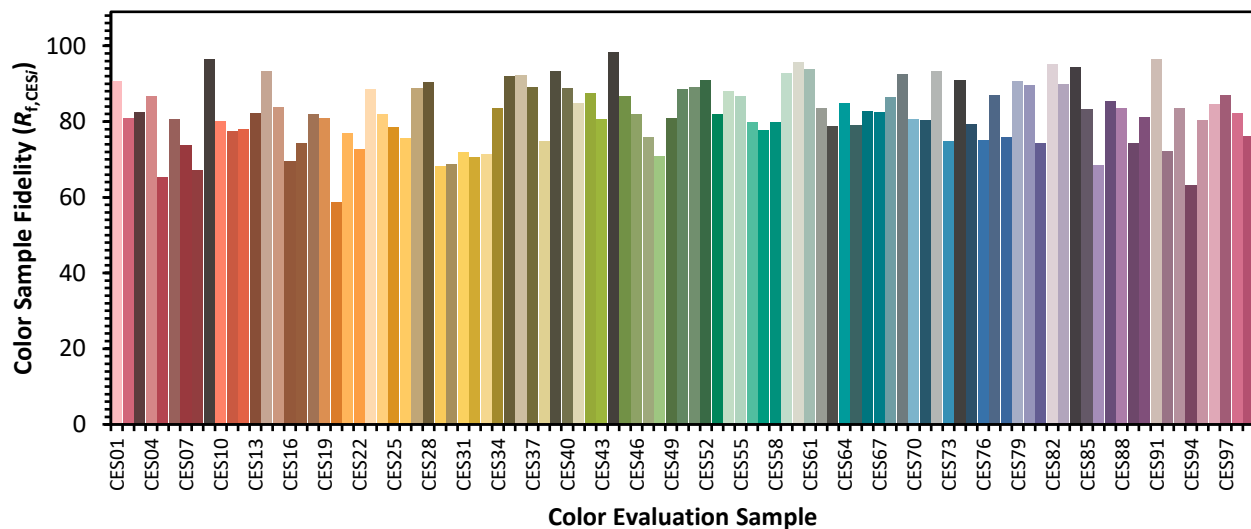
REPORT NUMBER: SP1-2407-184-8

TM-30-18
Summary
 $R_f = 82.2$
 $R_g = 99.9$
 CIE $R_a = 82.9$
 $R_9 = 10.8$

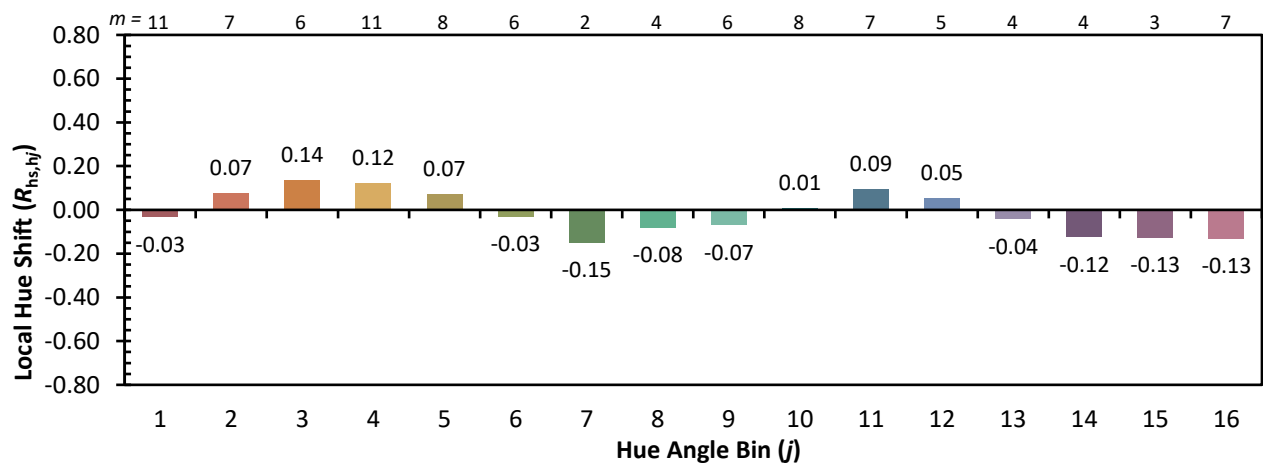
Color Vector Graphics


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)