

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: P1049906

Luminaire Tested: **GALN-SA4B-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049906
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10272.9 lumens
Efficiency: N/A
Efficacy: 71.3 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): 144.1
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

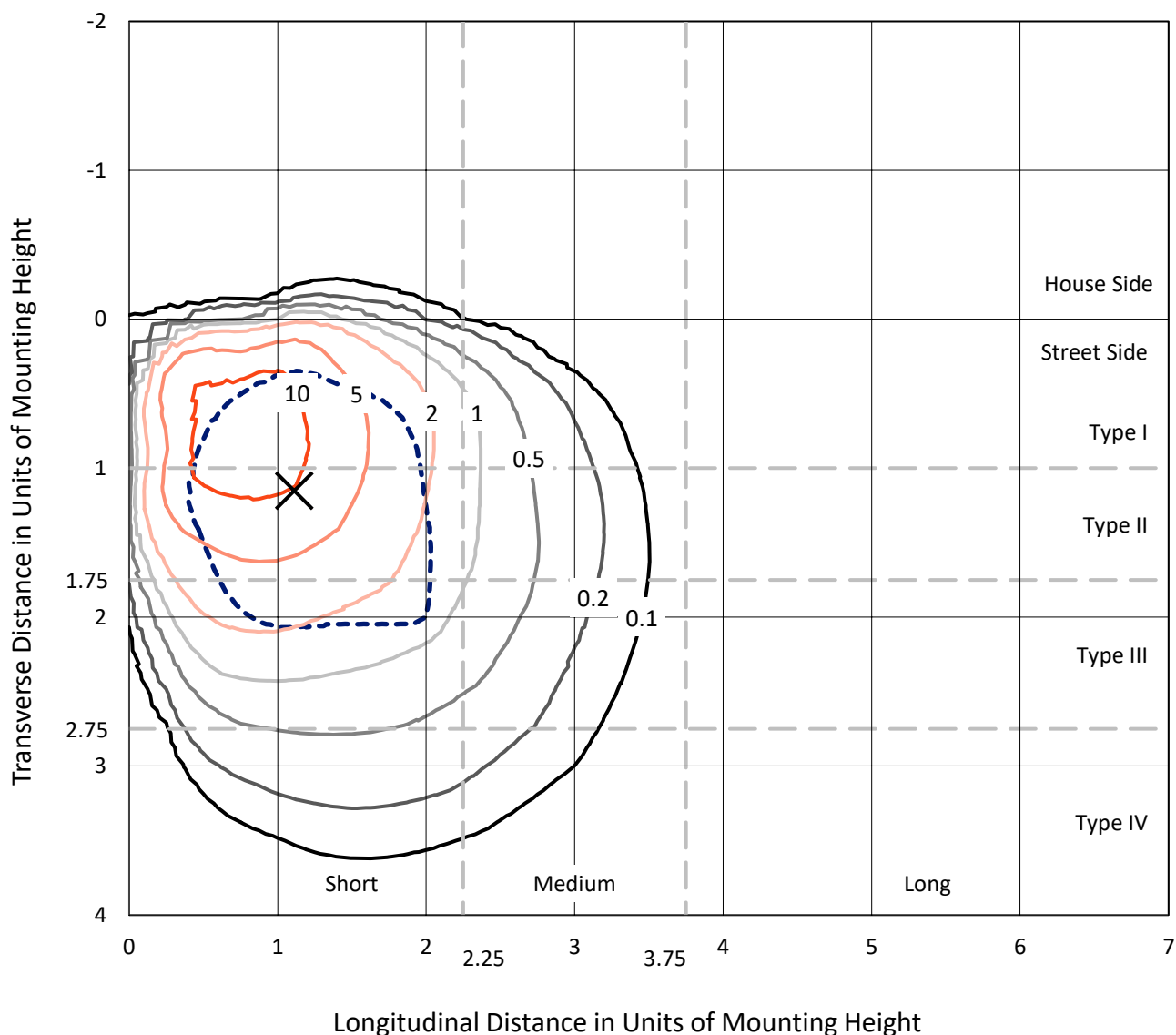
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

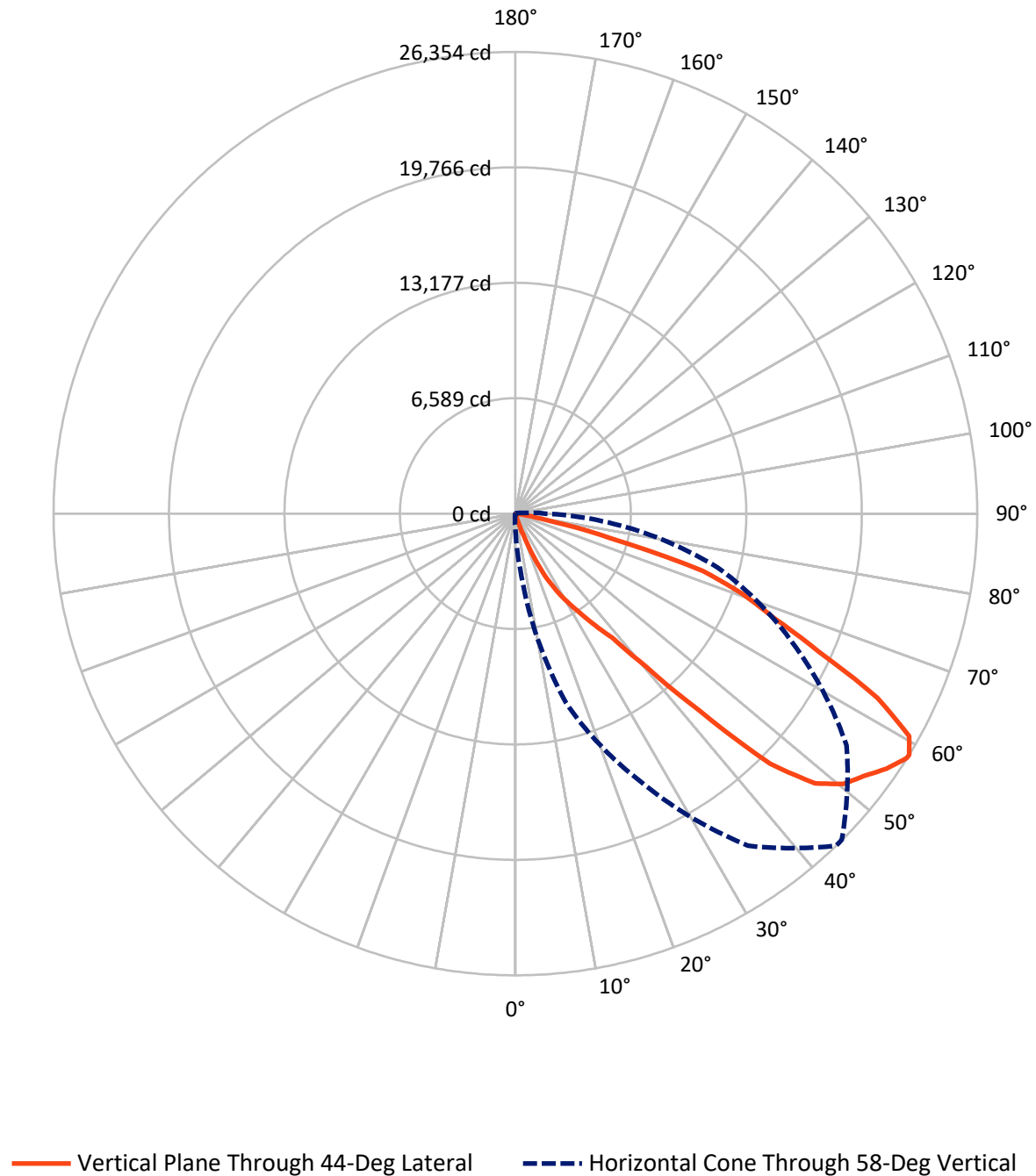


Based on 20 foot mounting height. Maximum calculated value = 17.9 fc

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	70.1	0.0	70.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	10202.8	0.0	10202.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	10272.9	0.0	10272.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.0
10°-20°	22.5	0.2
20°-30°	243.4	2.4
30°-40°	719.7	7.0
40°-50°	2145.1	20.9
50°-60°	3403.8	33.1
60°-70°	2839.2	27.6
70°-80°	875.7	8.5
80°-90°	19.5	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°	10272.9	100.0
0°-180°	10272.9	100.0



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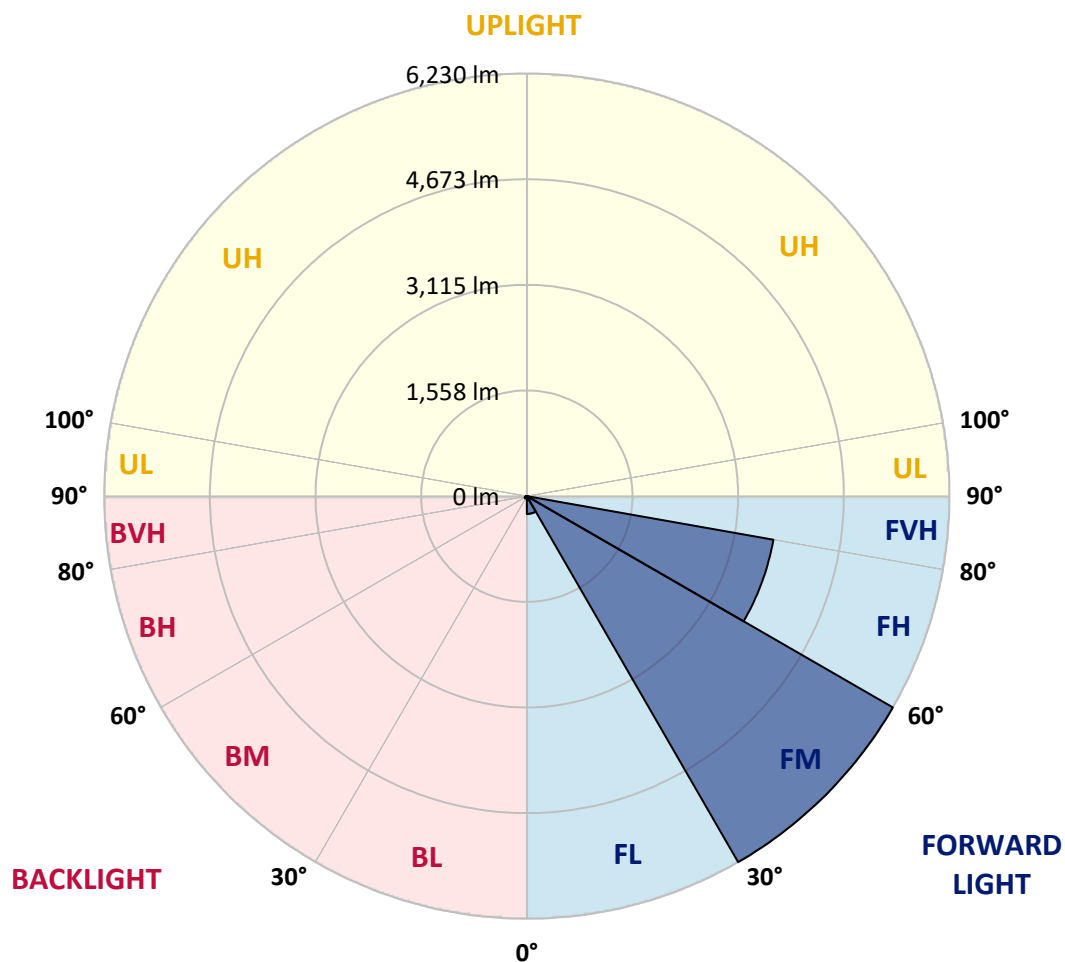
CATALOG NUMBER: GALN-SA4B-927-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.0	2.6			
FM	(30°-60°)	6230.3	60.6			
FH	(60°-80°)	3690.9	35.9			G2/5000
FVH	(80°-90°)	18.5	0.2			G1/100
BL	(0°-30°)	6.9	0.1	B0/110		
BM	(30°-60°)	38.4	0.4	B0/220		
BH	(60°-80°)	23.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	58.2	58.2	55.9	52.8	49.7	46.6	45.8	44.2	43.5	42.7
5°	60.5	60.5	59.8	57.4	54.3	52.0	52.0	49.7	48.1	46.6
7.5°	62.1	62.9	64.4	63.6	62.1	59.8	59.8	58.2	55.9	52.0
10°	64.4	66.7	69.8	71.4	72.2	72.2	71.4	70.6	66.7	61.3
12.5°	66.7	71.4	79.2	86.9	91.6	97.8	97.0	95.5	85.4	73.7
15°	71.4	78.4	94.7	117.2	152.1	173.8	182.4	174.6	141.2	99.3
17.5°	76.8	88.5	137.4	245.2	402.0	476.5	521.5	485.0	321.3	188.6
20°	82.3	107.9	255.3	635.6	1043.0	1286.7	1354.2	1248.6	801.6	359.3
22.5°	91.6	151.3	517.6	1313.8	2247.4	2612.9	2682.0	2344.4	1514.0	709.3
25°	111.0	219.6	892.4	2141.1	3354.0	3970.9	3942.2	3499.9	2456.1	1133.0
27.5°	138.9	319.7	1349.5	3042.0	4414.1	4958.1	5023.2	4476.1	3274.1	1666.1
30°	179.3	443.1	1840.0	3763.7	5263.8	5852.0	5862.9	5297.2	4005.9	2134.1
32.5°	218.1	559.5	2269.1	4461.4	6101.1	6746.0	6794.1	6098.0	4552.2	2621.4
35°	247.6	635.6	2703.7	5074.5	6945.5	7834.0	7830.9	7004.4	5199.4	3056.8
37.5°	249.9	711.6	3097.1	5701.5	8014.8	9009.7	9108.3	8197.2	5981.6	3595.3
40°	244.4	797.0	3595.3	6679.3	9941.7	11468.2	11555.1	10406.6	7550.8	4517.3
42.5°	250.7	945.2	4404.0	8485.1	13141.3	15333.6	15501.2	14293.7	10435.3	6398.4
45°	283.3	1223.8	6098.0	11506.2	17702.0	20374.7	20318.8	18579.7	13791.6	9261.9
47.5°	391.1	1905.9	8609.3	14446.6	20616.8	22996.9	23045.0	20919.4	15750.3	11463.5
50°	601.4	2916.3	10719.3	16001.0	21870.1	24257.9	24212.9	21756.8	16494.5	12547.6
52.5°	782.2	3647.3	11777.8	16546.5	22030.7	24881.1	24878.0	21977.2	16610.1	12640.7
55°	827.2	3702.4	11786.3	16576.0	22390.8	25696.7	25799.1	22519.6	16759.9	12234.1
57.5°	809.4	3277.9	11294.3	16746.7	23031.8	26327.6	26333.0	23045.0	17140.2	11985.0
58°	793.9	3211.2	11195.0	16843.7	23142.0	26354.0	26340.8	23069.0	17449.8	11975.7
60°	707.0	2788.3	10807.8	17091.3	22978.2	25812.3	25688.9	22543.7	17404.0	11880.2
62.5°	555.6	2175.2	10426.7	16804.9	21222.9	23190.1	23241.3	19958.7	15865.9	11323.8
65°	442.3	1621.1	9632.1	14740.7	17476.2	19043.8	19234.7	16229.9	13242.9	9588.6
67.5°	352.3	1171.8	8080.0	11735.9	13828.8	15893.9	16032.8	13626.3	10259.9	7346.7
70°	286.4	792.3	5577.3	8582.9	11406.1	13728.0	13736.5	11319.9	7657.9	4813.7
72.5°	253.8	548.7	3237.6	6259.5	9248.7	11186.5	10960.6	9185.9	5885.4	2851.1
75°	219.6	364.0	1587.8	3826.6	5607.6	5645.6	5731.8	4261.2	2941.9	1355.7
77.5°	180.8	258.4	625.5	1045.3	1681.7	2152.7	2232.6	1691.7	978.6	333.7
80°	124.2	122.6	168.4	320.5	481.1	603.0	562.6	435.4	256.1	128.0
82.5°	53.5	58.2	76.1	91.6	74.5	72.2	69.1	44.2	34.1	26.4
85°	17.1	15.5	16.3	16.3	13.2	10.1	10.1	4.7	0.0	0.0
87.5°	8.5	7.0	7.0	6.2	3.9	1.6	0.8	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°
45.0	0°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
41.9	2.5°	41.1	41.1	39.6	38.0	37.2	35.7	34.9	34.1	33.4	32.6
45.0	5°	43.5	42.7	40.4	38.0	35.7	33.4	31.8	30.3	28.7	27.9
49.7	7.5°	47.3	45.8	41.1	37.2	34.1	31.0	29.5	27.2	25.6	23.3
55.1	10°	52.0	48.9	42.7	38.0	33.4	29.5	27.2	24.8	22.5	19.4
62.9	12.5°	58.2	52.8	45.0	37.2	31.8	27.2	24.8	21.7	19.4	17.1
72.9	15°	63.6	56.7	45.8	37.2	30.3	24.8	21.7	18.6	16.3	13.2
91.6	17.5°	71.4	59.8	45.0	34.9	27.9	21.7	18.6	16.3	12.4	7.8
135.8	20°	84.6	62.1	43.5	32.6	24.1	17.8	14.0	10.9	5.4	1.6
204.1	22.5°	105.5	68.3	41.9	29.5	21.0	14.0	9.3	3.9	0.0	0.0
310.4	25°	145.9	79.2	41.9	27.9	18.6	10.1	3.1	0.0	0.0	0.0
440.8	27.5°	194.0	93.9	41.9	24.1	14.7	5.4	0.0	0.0	0.0	0.0
600.6	30°	242.9	110.2	41.9	21.0	11.6	0.8	0.0	0.0	0.0	0.0
739.6	32.5°	289.5	124.2	42.7	17.8	7.8	0.0	0.0	0.0	0.0	0.0
932.0	35°	336.8	126.5	41.9	15.5	4.7	0.0	0.0	0.0	0.0	0.0
1167.9	37.5°	397.3	121.8	39.6	14.0	2.3	0.0	0.0	0.0	0.0	0.0
1536.5	40°	488.9	124.2	37.2	13.2	0.8	0.0	0.0	0.0	0.0	0.0
2193.8	42.5°	658.1	134.3	34.1	13.2	0.0	0.0	0.0	0.0	0.0	0.0
3494.5	45°	1137.7	180.0	31.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0
5246.0	47.5°	1881.9	323.6	30.3	14.0	0.0	0.0	0.0	0.0	0.0	0.0
6319.2	50°	2401.8	407.4	31.8	14.7	0.0	0.0	0.0	0.0	0.0	0.0
6453.5	52.5°	2397.9	454.0	33.4	15.5	3.1	0.0	0.0	0.0	0.0	0.0
5948.3	55°	2131.8	462.5	35.7	17.1	10.1	0.0	0.0	0.0	0.0	0.0
5111.7	57.5°	1781.8	422.2	41.1	21.0	18.6	0.0	0.0	0.0	0.0	0.0
4980.6	58°	1719.7	403.5	42.7	21.7	20.2	0.0	0.0	0.0	0.0	0.0
4320.2	60°	1409.3	329.0	54.3	27.2	27.2	0.0	0.0	0.0	0.0	0.0
3541.8	62.5°	973.1	287.1	62.1	34.9	27.9	0.0	0.0	0.0	0.0	0.0
2611.3	65°	688.3	259.2	67.5	37.2	22.5	0.0	0.0	0.0	0.0	0.0
1855.5	67.5°	514.5	239.0	74.5	38.0	11.6	0.0	0.0	0.0	0.0	0.0
1164.0	70°	394.2	224.3	91.6	40.4	3.1	0.0	0.0	0.0	0.0	0.0
693.8	72.5°	321.3	207.2	111.0	41.9	0.0	0.0	0.0	0.0	0.0	0.0
416.0	75°	266.2	187.0	107.1	45.8	0.0	0.0	0.0	0.0	0.0	0.0
221.9	77.5°	176.9	145.1	97.8	45.8	0.0	0.0	0.0	0.0	0.0	0.0
79.2	80°	62.1	57.4	76.1	40.4	0.0	0.0	0.0	0.0	0.0	0.0
16.3	82.5°	9.3	7.8	10.9	14.0	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	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°
45.0	0°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
31.8	2.5°	31.8	31.8	31.0	31.8	31.8	33.4	37.2	42.7	48.9	51.2
27.2	5°	26.4	25.6	24.8	24.8	24.8	27.2	30.3	36.5	43.5	46.6
22.5	7.5°	21.7	21.0	20.2	19.4	19.4	21.0	24.8	31.8	38.8	41.9
18.6	10°	17.8	16.3	15.5	14.7	14.7	16.3	20.2	27.2	34.9	38.0
15.5	12.5°	14.7	12.4	10.9	10.1	9.3	11.6	15.5	21.7	30.3	34.1
11.6	15°	10.1	7.8	5.4	4.7	3.9	6.2	10.1	17.1	25.6	30.3
6.2	17.5°	5.4	2.3	0.8	0.0	0.0	1.6	4.7	12.4	21.0	24.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.5	19.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.3	13.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	6.2
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°
45.0	0°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
53.5	2.5°	55.1	54.3	52.8	51.2	51.2	51.2	53.5	55.9	58.2	58.2
48.1	5°	51.2	51.2	50.4	48.9	48.9	49.7	52.8	56.7	59.8	60.5
44.2	7.5°	47.3	48.9	47.3	46.6	47.3	48.1	51.2	55.9	60.5	62.1
41.1	10°	45.0	45.8	45.8	45.0	45.0	46.6	49.7	55.9	62.1	64.4
37.2	12.5°	41.9	43.5	42.7	42.7	42.7	44.2	48.1	55.1	63.6	66.7
33.4	15°	38.8	41.1	41.1	40.4	40.4	41.1	46.6	54.3	66.0	71.4
28.7	17.5°	35.7	38.0	38.8	37.2	37.2	38.8	44.2	54.3	67.5	76.8
23.3	20°	29.5	33.4	35.7	33.4	33.4	34.9	40.4	51.2	68.3	82.3
17.1	22.5°	23.3	27.2	30.3	29.5	29.5	30.3	37.2	48.9	69.1	91.6
10.1	25°	17.1	21.0	23.3	24.8	24.8	27.2	34.1	47.3	72.2	111.0
4.7	27.5°	10.1	14.7	17.8	19.4	20.2	23.3	31.8	45.8	77.6	138.9
0.0	30°	4.7	8.5	12.4	15.5	15.5	21.0	29.5	44.2	84.6	179.3
0.0	32.5°	0.0	3.9	6.2	10.9	11.6	17.1	27.2	42.7	94.7	218.1
0.0	35°	0.0	0.0	3.1	8.5	8.5	14.0	24.8	41.1	110.2	247.6
0.0	37.5°	0.0	0.0	0.0	6.2	7.0	12.4	24.1	40.4	113.3	249.9
0.0	40°	0.0	0.0	0.0	4.7	5.4	11.6	24.1	41.1	102.4	244.4
0.0	42.5°	0.0	0.0	0.0	3.1	3.9	11.6	24.1	42.7	92.3	250.7
0.0	45°	0.0	0.0	0.0	2.3	3.1	12.4	23.3	41.9	86.9	283.3
0.0	47.5°	0.0	0.0	0.0	3.1	4.7	12.4	22.5	41.1	87.7	391.1
0.0	50°	0.0	0.0	0.0	3.9	5.4	12.4	23.3	39.6	96.2	601.4
0.0	52.5°	0.0	0.0	0.0	3.1	4.7	14.0	25.6	38.8	104.8	782.2
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.8	27.9	38.8	118.0	827.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	20.2	31.8	41.1	139.7	809.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	20.2	32.6	41.1	141.2	793.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	20.2	35.7	45.8	152.1	707.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	17.1	42.7	57.4	158.3	555.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	14.0	50.4	62.9	163.0	442.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	13.2	52.0	63.6	165.3	352.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	14.0	51.2	68.3	173.1	286.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.5	46.6	75.3	173.1	253.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.3	43.5	84.6	157.5	219.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.5	42.7	98.6	140.5	180.8
0.0	80°	1.6	2.3	2.3	1.6	1.6	13.2	41.9	100.1	119.5	124.2
0.8	82.5°	4.7	6.2	5.4	3.9	3.9	11.6	37.2	83.8	62.1	53.5
4.7	85°	8.5	10.1	10.1	8.5	8.5	10.9	23.3	30.3	21.0	17.1
8.5	87.5°	11.6	13.2	13.2	11.6	11.6	10.9	10.1	9.3	8.5	8.5
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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

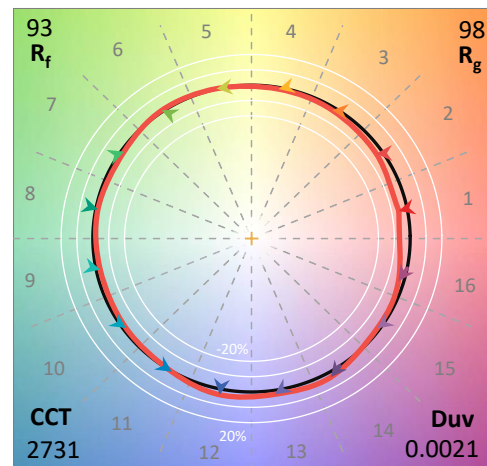
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

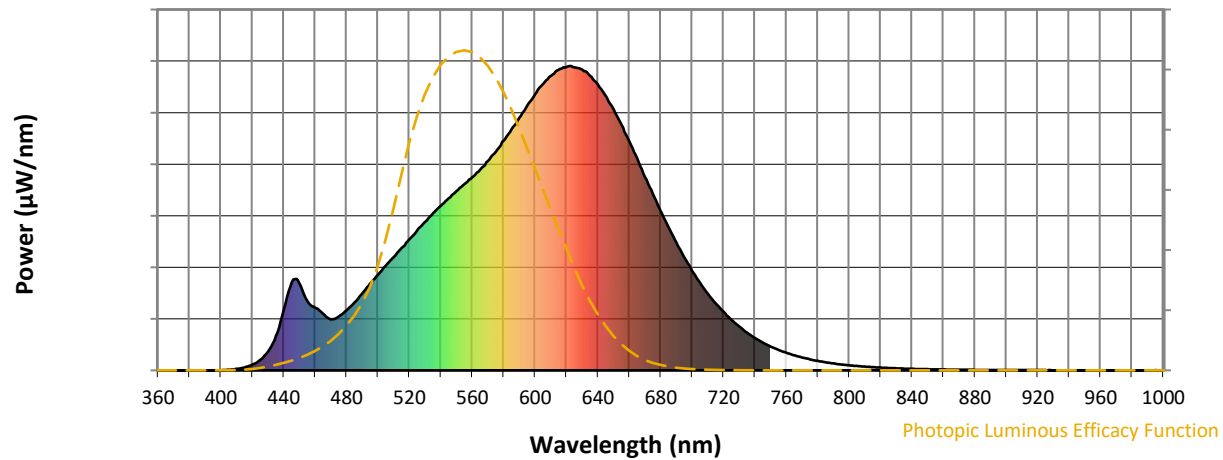
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

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: SP1-2407-184-13

Photopic Flux vs. Wavelength

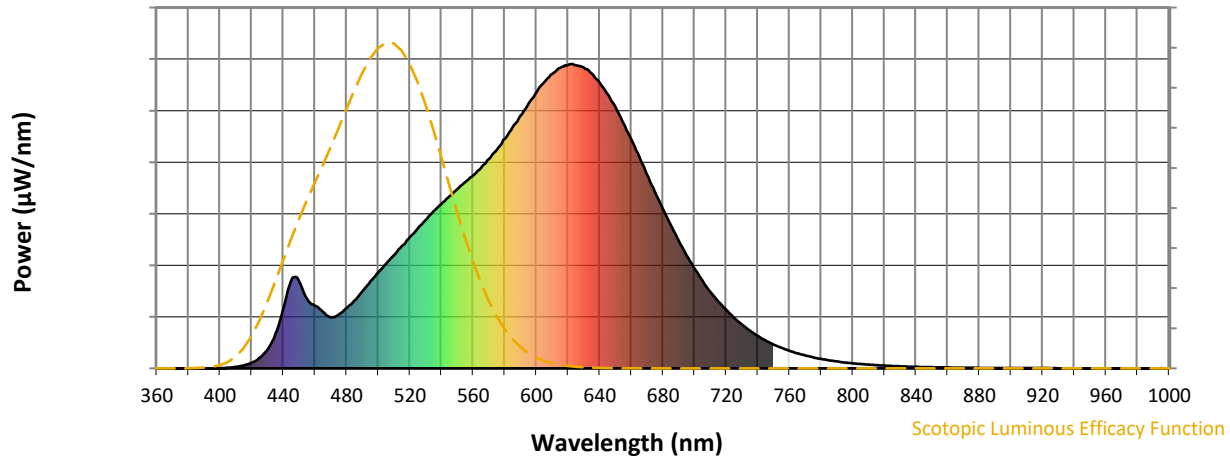


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



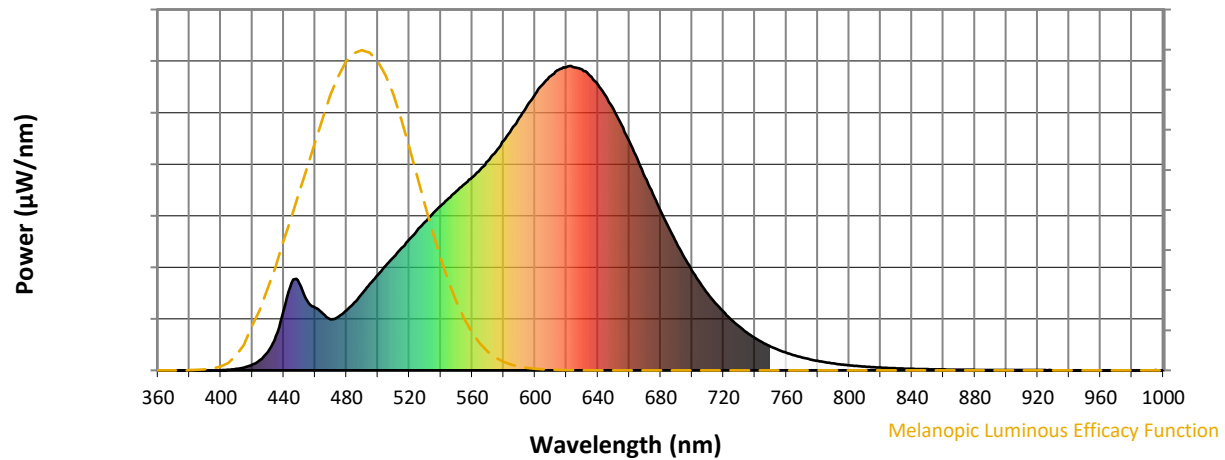
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

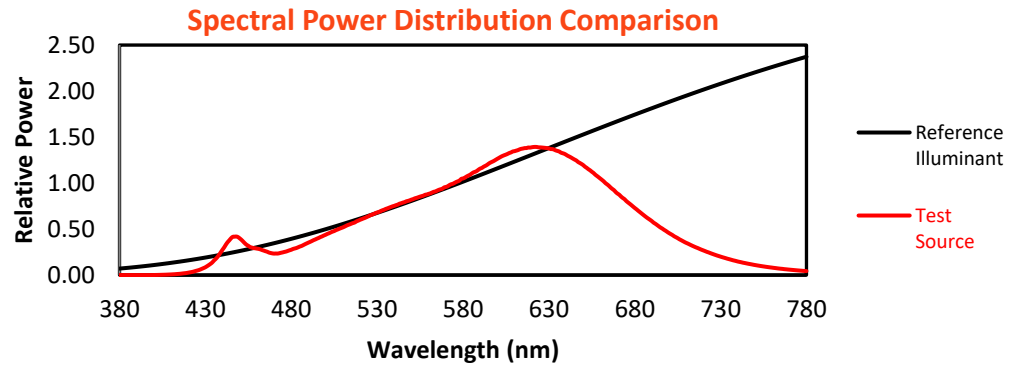
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

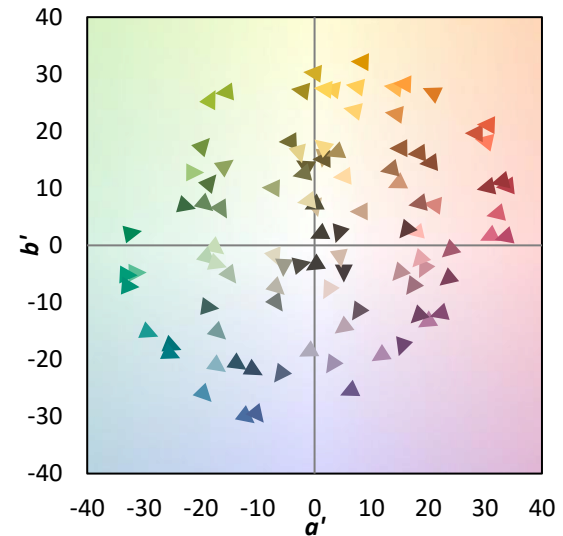
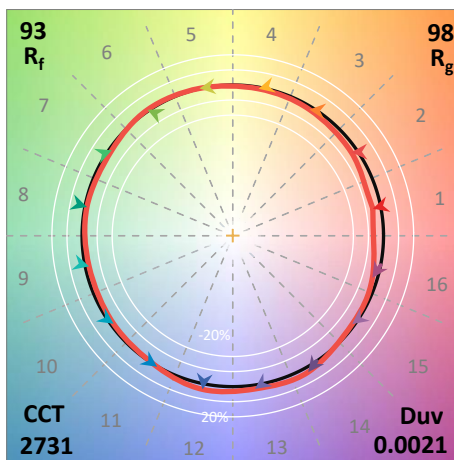
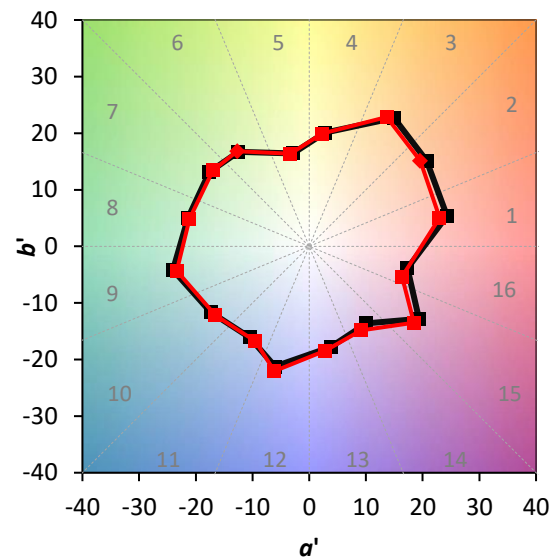
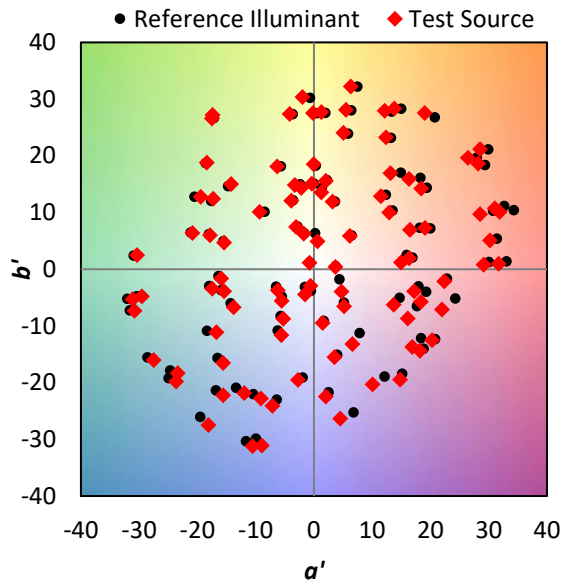
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

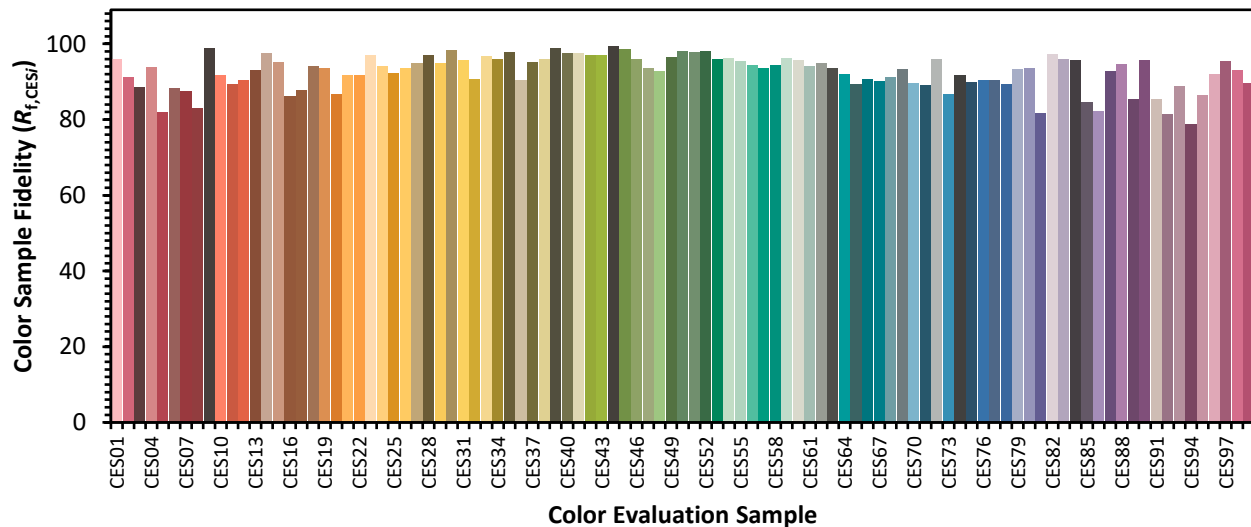


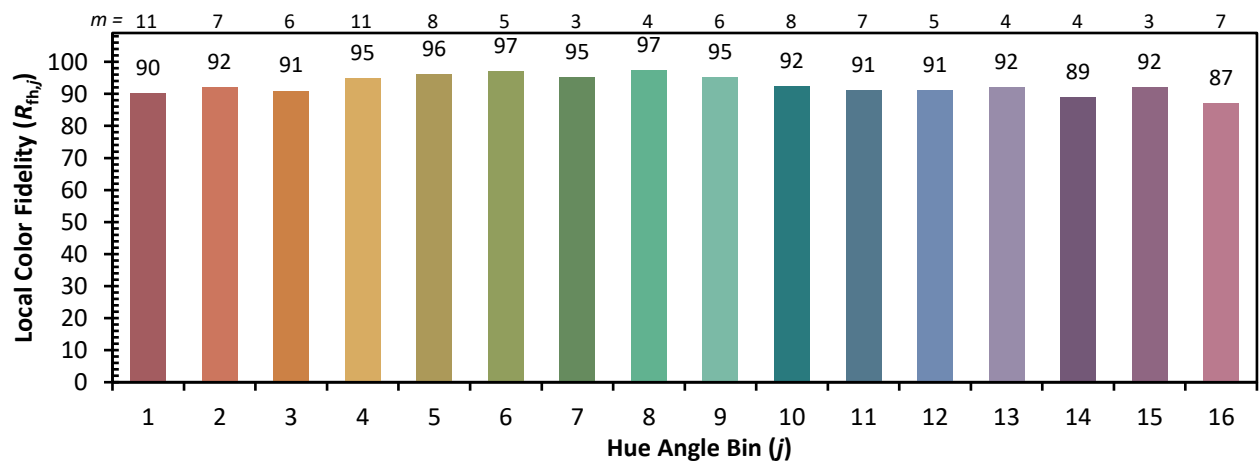
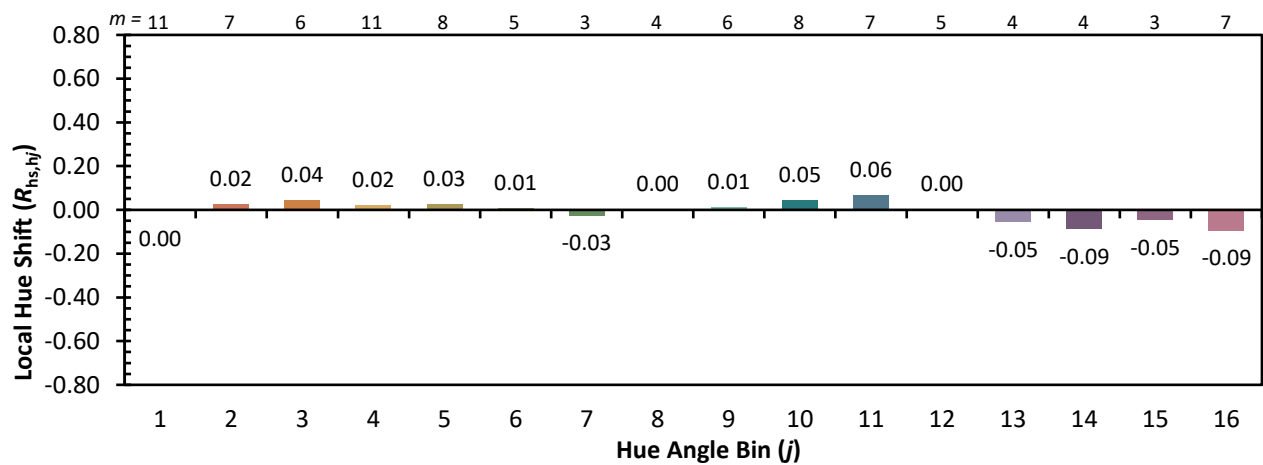
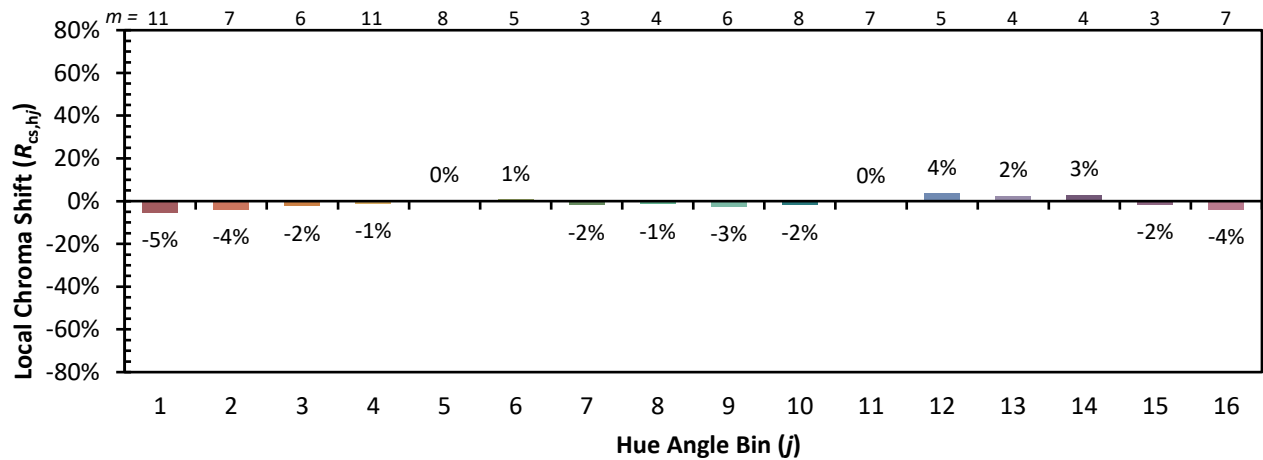
Color Vector Graphics



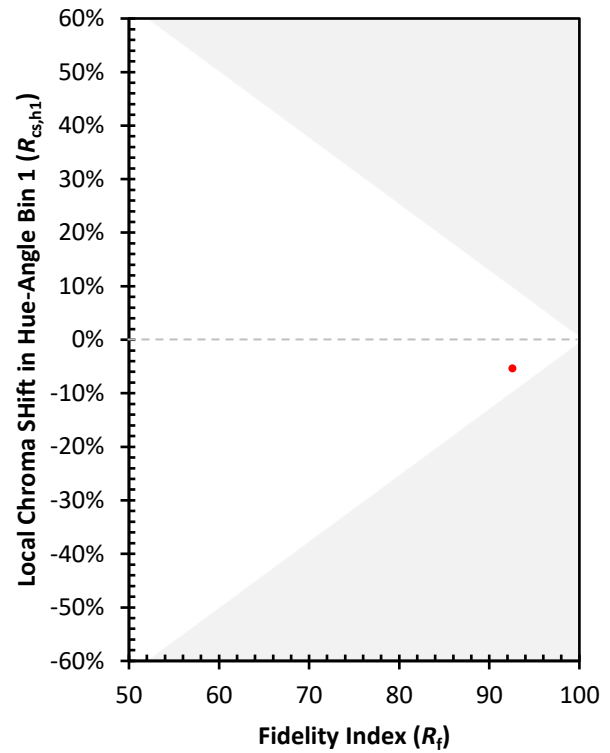
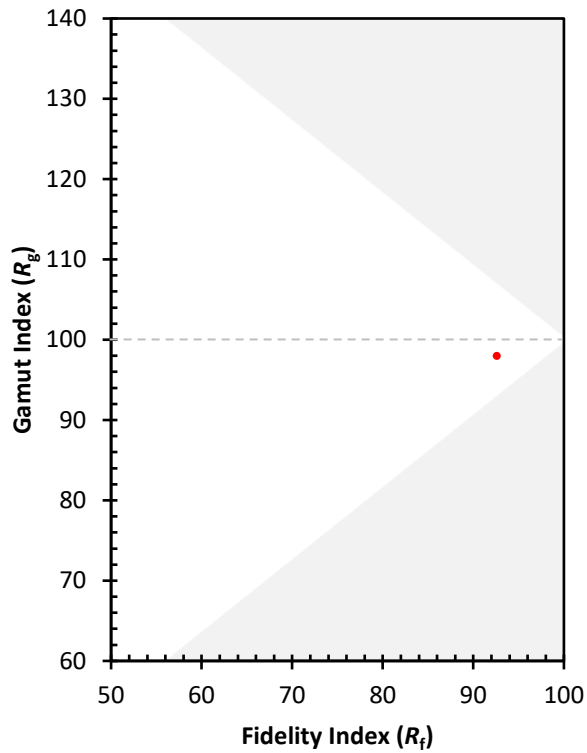
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)