

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: P1049927

Luminaire Tested: **GALN-SA9C-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049927
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28114.2 lumens
Efficiency: N/A
Efficacy: 67.4 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

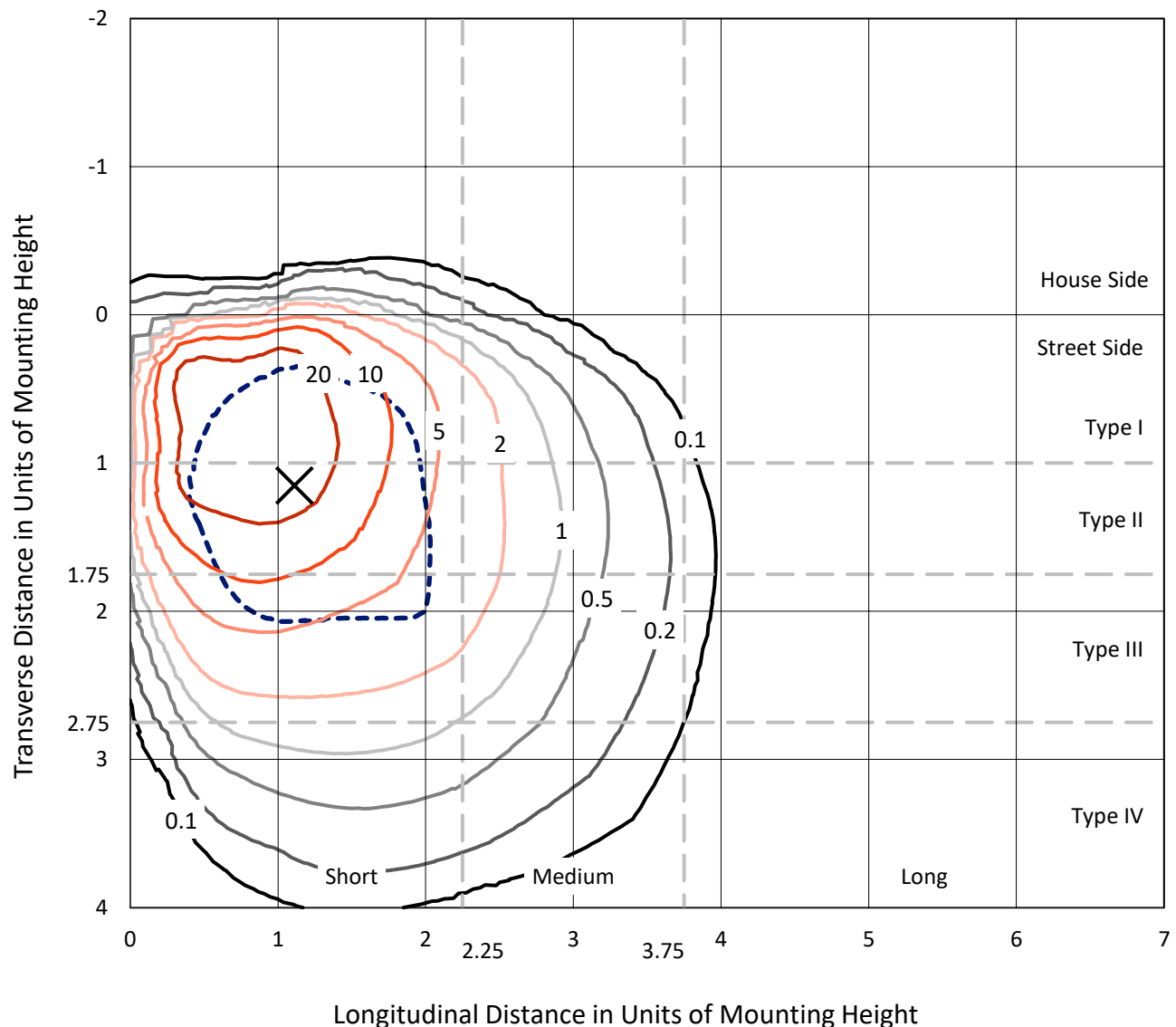
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

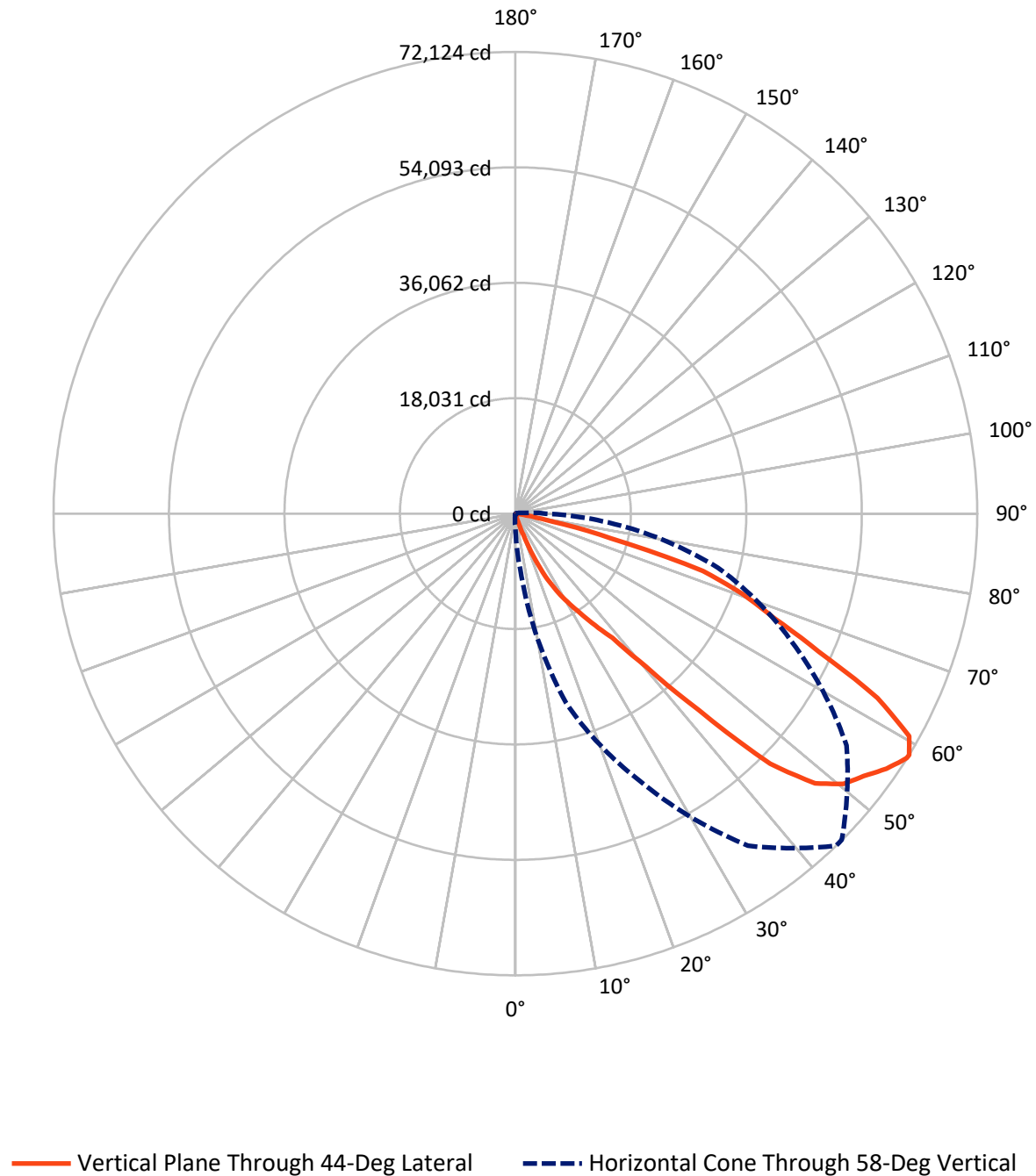
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 48.9 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	192.0	0.0	192.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	27922.3	0.0	27922.3
	% Fixture	99.3	0.0	99.3
Total	Lumens	28114.2	0.0	28114.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.0
10°-20°	61.7	0.2
20°-30°	666.0	2.4
30°-40°	1969.7	7.0
40°-50°	5870.7	20.9
50°-60°	9315.4	33.1
60°-70°	7770.1	27.6
70°-80°	2396.4	8.5
80°-90°	53.2	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°	28114.2	100.0
0°-180°	28114.2	100.0



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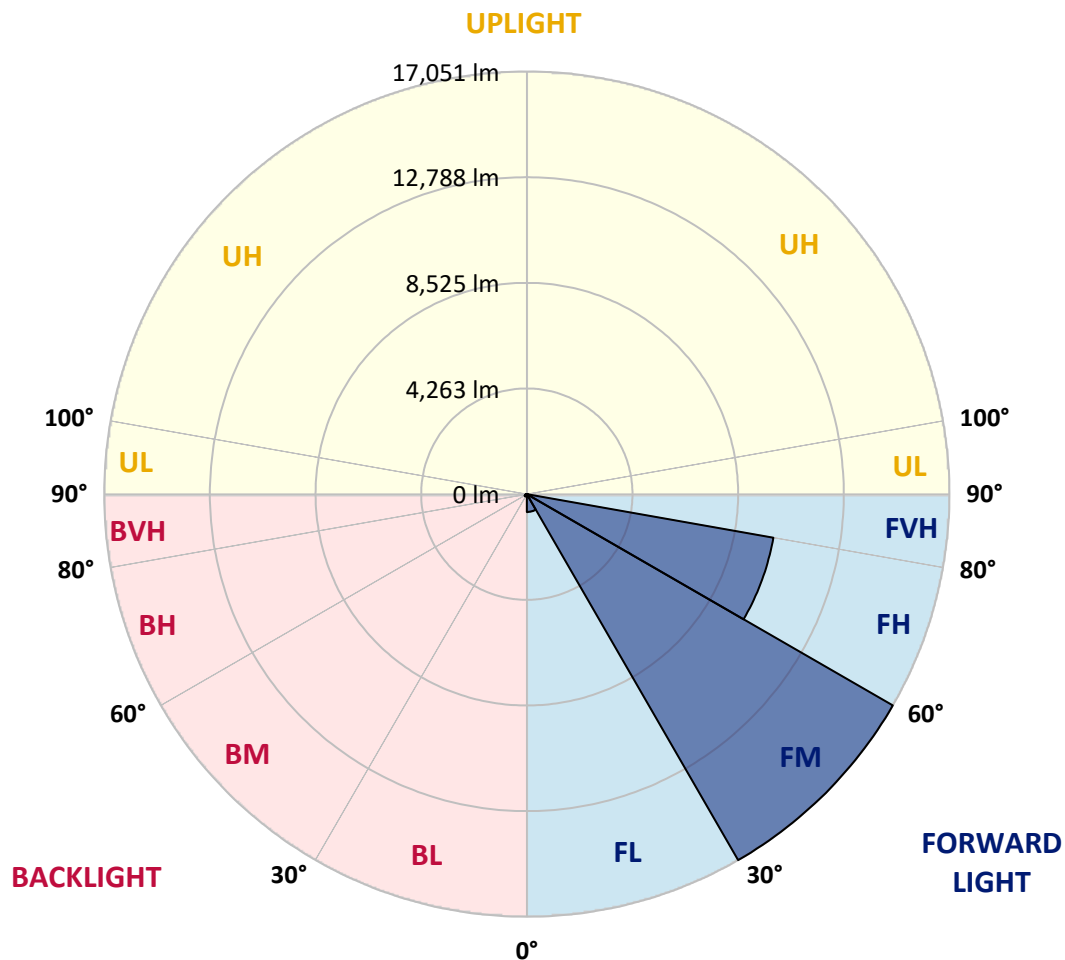
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.9	2.6			
FM	(30°-60°)	17050.7	60.6			
FH	(60°-80°)	10101.0	35.9			G4/12000
FVH	(80°-90°)	50.7	0.2			G1/100
BL	(0°-30°)	18.8	0.1	B0/110		
BM	(30°-60°)	105.1	0.4	B0/220		
BH	(60°-80°)	65.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.6	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°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
2.5°	159.3	159.3	152.9	144.4	135.9	127.4	125.3	121.1	118.9	116.8
5°	165.7	165.7	163.5	157.2	148.7	142.3	142.3	135.9	131.7	127.4
7.5°	169.9	172.0	176.3	174.2	169.9	163.5	163.5	159.3	152.9	142.3
10°	176.3	182.6	191.1	195.4	197.5	197.5	195.4	193.3	182.6	167.8
12.5°	182.6	195.4	216.6	237.9	250.6	267.6	265.5	261.2	233.6	201.8
15°	195.4	214.5	259.1	320.7	416.3	475.7	499.1	477.9	386.5	271.8
17.5°	210.3	242.1	375.9	671.1	1100.1	1304.0	1427.2	1327.4	879.2	516.1
20°	225.1	295.2	698.7	1739.4	2854.4	3521.2	3706.0	3417.2	2193.9	983.3
22.5°	250.6	414.1	1416.6	3595.6	6150.5	7150.8	7339.8	6416.0	4143.5	1941.1
25°	303.7	601.0	2442.4	5859.5	9179.0	10867.4	10788.9	9578.3	6721.8	3100.7
27.5°	380.2	875.0	3693.3	8325.3	12080.1	13568.9	13747.3	12250.0	8960.3	4559.8
30°	490.6	1212.7	5035.5	10300.4	14405.7	16015.5	16045.2	14497.0	10963.0	5840.4
32.5°	596.8	1531.3	6210.0	12209.7	16697.2	18462.1	18593.8	16688.7	12458.2	7174.2
35°	677.5	1739.4	7399.3	13887.5	19007.9	21439.7	21431.2	19169.3	14229.4	8365.6
37.5°	683.9	1947.5	8476.0	15603.5	21934.5	24657.2	24926.9	22433.6	16370.2	9839.5
40°	669.0	2181.1	9839.5	18279.5	27207.9	31385.4	31623.2	28480.0	20664.5	12362.6
42.5°	686.0	2586.8	12052.5	23221.5	35964.3	41964.0	42422.7	39118.1	28558.6	17510.7
45°	775.2	3349.2	16688.7	31489.4	48445.8	55760.1	55607.2	50847.8	37744.0	25347.4
47.5°	1070.4	5216.0	23561.3	39536.5	56422.7	62936.4	63068.1	57251.0	43104.5	31372.6
50°	1645.9	7981.2	29335.9	43790.4	59852.7	66387.6	66264.4	59542.6	45141.2	34339.6
52.5°	2140.8	9981.8	32232.8	45283.5	60292.3	68093.0	68084.5	60145.8	45457.6	34594.4
55°	2264.0	10132.6	32256.1	45364.2	61277.7	70325.1	70605.4	61630.3	45867.5	33481.6
57.5°	2215.1	8970.9	30909.6	45831.4	63032.0	72051.7	72066.6	63068.1	46908.2	32799.8
58°	2172.6	8788.2	30637.8	46096.9	63333.6	72123.9	72087.8	63133.9	47755.6	32774.3
60°	1934.8	7630.8	29578.0	46774.4	62885.4	70641.5	70303.8	61696.1	47630.3	32513.1
62.5°	1520.6	5953.0	28535.3	45990.7	58081.4	63465.2	63605.4	54621.8	43420.9	30990.4
65°	1210.6	4436.6	26360.5	40341.4	47827.8	52117.8	52640.3	44417.0	36242.5	26241.6
67.5°	964.2	3206.9	22112.9	32118.1	37846.0	43497.4	43877.5	37291.6	28078.6	20105.9
70°	783.7	2168.4	15263.7	23489.1	31215.5	37569.9	37593.2	30979.7	20957.6	13173.9
72.5°	694.5	1501.5	8860.5	17130.5	25311.3	30614.4	29996.4	25139.3	16106.8	7802.8
75°	601.0	996.1	4345.3	10472.4	15346.5	15450.6	15686.3	11661.7	8051.3	3710.3
77.5°	494.8	707.2	1711.8	2860.7	4602.3	5891.4	6110.1	4629.9	2678.1	913.2
80°	339.8	335.6	460.9	877.1	1316.8	1650.2	1539.7	1191.4	700.9	350.4
82.5°	146.5	159.3	208.1	250.6	203.9	197.5	189.0	121.1	93.4	72.2
85°	46.7	42.5	44.6	44.6	36.1	27.6	27.6	12.7	0.0	0.0
87.5°	23.4	19.1	19.1	17.0	10.6	4.2	2.1	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°
123.2	0°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
114.7	2.5°	112.6	112.6	108.3	104.1	101.9	97.7	95.6	93.4	91.3	89.2
123.2	5°	118.9	116.8	110.4	104.1	97.7	91.3	87.1	82.8	78.6	76.5
135.9	7.5°	129.6	125.3	112.6	101.9	93.4	85.0	80.7	74.3	70.1	63.7
150.8	10°	142.3	133.8	116.8	104.1	91.3	80.7	74.3	68.0	61.6	53.1
172.0	12.5°	159.3	144.4	123.2	101.9	87.1	74.3	68.0	59.5	53.1	46.7
199.6	15°	174.2	155.0	125.3	101.9	82.8	68.0	59.5	51.0	44.6	36.1
250.6	17.5°	195.4	163.5	123.2	95.6	76.5	59.5	51.0	44.6	34.0	21.2
371.7	20°	231.5	169.9	118.9	89.2	65.8	48.8	38.2	29.7	14.9	4.2
558.6	22.5°	288.8	186.9	114.7	80.7	57.3	38.2	25.5	10.6	0.0	0.0
849.5	25°	399.3	216.6	114.7	76.5	51.0	27.6	8.5	0.0	0.0	0.0
1206.3	27.5°	530.9	257.0	114.7	65.8	40.4	14.9	0.0	0.0	0.0	0.0
1643.8	30°	664.7	301.6	114.7	57.3	31.9	2.1	0.0	0.0	0.0	0.0
2024.0	32.5°	792.2	339.8	116.8	48.8	21.2	0.0	0.0	0.0	0.0	0.0
2550.7	35°	921.7	346.2	114.7	42.5	12.7	0.0	0.0	0.0	0.0	0.0
3196.3	37.5°	1087.4	333.4	108.3	38.2	6.4	0.0	0.0	0.0	0.0	0.0
4205.1	40°	1338.0	339.8	101.9	36.1	2.1	0.0	0.0	0.0	0.0	0.0
6004.0	42.5°	1801.0	367.4	93.4	36.1	0.0	0.0	0.0	0.0	0.0	0.0
9563.4	45°	3113.5	492.7	85.0	38.2	0.0	0.0	0.0	0.0	0.0	0.0
14356.8	47.5°	5150.2	885.6	82.8	38.2	0.0	0.0	0.0	0.0	0.0	0.0
17294.0	50°	6573.1	1115.0	87.1	40.4	0.0	0.0	0.0	0.0	0.0	0.0
17661.4	52.5°	6562.5	1242.4	91.3	42.5	8.5	0.0	0.0	0.0	0.0	0.0
16278.9	55°	5834.1	1265.8	97.7	46.7	27.6	0.0	0.0	0.0	0.0	0.0
13989.4	57.5°	4876.2	1155.3	112.6	57.3	51.0	0.0	0.0	0.0	0.0	0.0
13630.5	58°	4706.3	1104.4	116.8	59.5	55.2	0.0	0.0	0.0	0.0	0.0
11823.1	60°	3856.8	900.5	148.7	74.3	74.3	0.0	0.0	0.0	0.0	0.0
9693.0	62.5°	2663.2	785.8	169.9	95.6	76.5	0.0	0.0	0.0	0.0	0.0
7146.6	65°	1883.8	709.3	184.8	101.9	61.6	0.0	0.0	0.0	0.0	0.0
5078.0	67.5°	1408.1	654.1	203.9	104.1	31.9	0.0	0.0	0.0	0.0	0.0
3185.7	70°	1078.9	613.8	250.6	110.4	8.5	0.0	0.0	0.0	0.0	0.0
1898.7	72.5°	879.2	567.1	303.7	114.7	0.0	0.0	0.0	0.0	0.0	0.0
1138.4	75°	728.5	511.8	293.1	125.3	0.0	0.0	0.0	0.0	0.0	0.0
607.4	77.5°	484.2	397.1	267.6	125.3	0.0	0.0	0.0	0.0	0.0	0.0
216.6	80°	169.9	157.2	208.1	110.4	0.0	0.0	0.0	0.0	0.0	0.0
44.6	82.5°	25.5	21.2	29.7	38.2	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°
123.2	0°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
87.1	2.5°	87.1	87.1	85.0	87.1	87.1	91.3	101.9	116.8	133.8	140.2
74.3	5°	72.2	70.1	68.0	68.0	68.0	74.3	82.8	99.8	118.9	127.4
61.6	7.5°	59.5	57.3	55.2	53.1	53.1	57.3	68.0	87.1	106.2	114.7
51.0	10°	48.8	44.6	42.5	40.4	40.4	44.6	55.2	74.3	95.6	104.1
42.5	12.5°	40.4	34.0	29.7	27.6	25.5	31.9	42.5	59.5	82.8	93.4
31.9	15°	27.6	21.2	14.9	12.7	10.6	17.0	27.6	46.7	70.1	82.8
17.0	17.5°	14.9	6.4	2.1	0.0	0.0	4.2	12.7	34.0	57.3	68.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	42.5	53.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	25.5	36.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	19.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
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	6.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	17.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
123.2	0°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
146.5	2.5°	150.8	148.7	144.4	140.2	140.2	140.2	146.5	152.9	159.3	159.3
131.7	5°	140.2	140.2	138.0	133.8	133.8	135.9	144.4	155.0	163.5	165.7
121.1	7.5°	129.6	133.8	129.6	127.4	129.6	131.7	140.2	152.9	165.7	169.9
112.6	10°	123.2	125.3	125.3	123.2	123.2	127.4	135.9	152.9	169.9	176.3
101.9	12.5°	114.7	118.9	116.8	116.8	116.8	121.1	131.7	150.8	174.2	182.6
91.3	15°	106.2	112.6	112.6	110.4	110.4	112.6	127.4	148.7	180.5	195.4
78.6	17.5°	97.7	104.1	106.2	101.9	101.9	106.2	121.1	148.7	184.8	210.3
63.7	20°	80.7	91.3	97.7	91.3	91.3	95.6	110.4	140.2	186.9	225.1
46.7	22.5°	63.7	74.3	82.8	80.7	80.7	82.8	101.9	133.8	189.0	250.6
27.6	25°	46.7	57.3	63.7	68.0	68.0	74.3	93.4	129.6	197.5	303.7
12.7	27.5°	27.6	40.4	48.8	53.1	55.2	63.7	87.1	125.3	212.4	380.2
0.0	30°	12.7	23.4	34.0	42.5	42.5	57.3	80.7	121.1	231.5	490.6
0.0	32.5°	0.0	10.6	17.0	29.7	31.9	46.7	74.3	116.8	259.1	596.8
0.0	35°	0.0	0.0	8.5	23.4	23.4	38.2	68.0	112.6	301.6	677.5
0.0	37.5°	0.0	0.0	0.0	17.0	19.1	34.0	65.8	110.4	310.1	683.9
0.0	40°	0.0	0.0	0.0	12.7	14.9	31.9	65.8	112.6	280.3	669.0
0.0	42.5°	0.0	0.0	0.0	8.5	10.6	31.9	65.8	116.8	252.7	686.0
0.0	45°	0.0	0.0	0.0	6.4	8.5	34.0	63.7	114.7	237.9	775.2
0.0	47.5°	0.0	0.0	0.0	8.5	12.7	34.0	61.6	112.6	240.0	1070.4
0.0	50°	0.0	0.0	0.0	10.6	14.9	34.0	63.7	108.3	263.4	1645.9
0.0	52.5°	0.0	0.0	0.0	8.5	12.7	38.2	70.1	106.2	286.7	2140.8
0.0	55°	0.0	0.0	0.0	2.1	6.4	48.8	76.5	106.2	322.8	2264.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	55.2	87.1	112.6	382.3	2215.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	55.2	89.2	112.6	386.5	2172.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	55.2	97.7	125.3	416.3	1934.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	46.7	116.8	157.2	433.3	1520.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	38.2	138.0	172.0	446.0	1210.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	36.1	142.3	174.2	452.4	964.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	38.2	140.2	186.9	473.6	783.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	42.5	127.4	206.0	473.6	694.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	44.6	118.9	231.5	431.1	601.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	42.5	116.8	269.7	384.4	494.8
0.0	80°	4.2	6.4	6.4	4.2	4.2	36.1	114.7	274.0	327.1	339.8
2.1	82.5°	12.7	17.0	14.9	10.6	10.6	31.9	101.9	229.4	169.9	146.5
12.7	85°	23.4	27.6	27.6	23.4	23.4	29.7	63.7	82.8	57.3	46.7
23.4	87.5°	31.9	36.1	36.1	31.9	31.9	29.7	27.6	25.5	23.4	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

(END OF RI

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

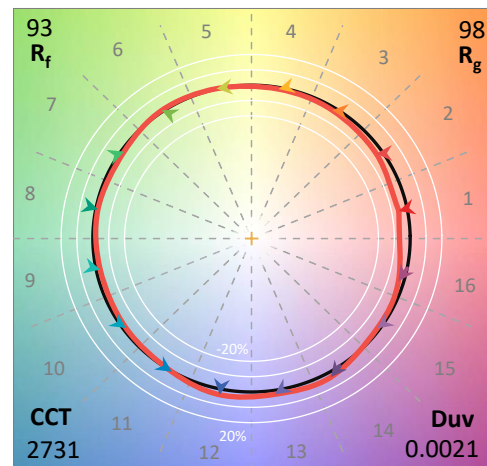
Test Information

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

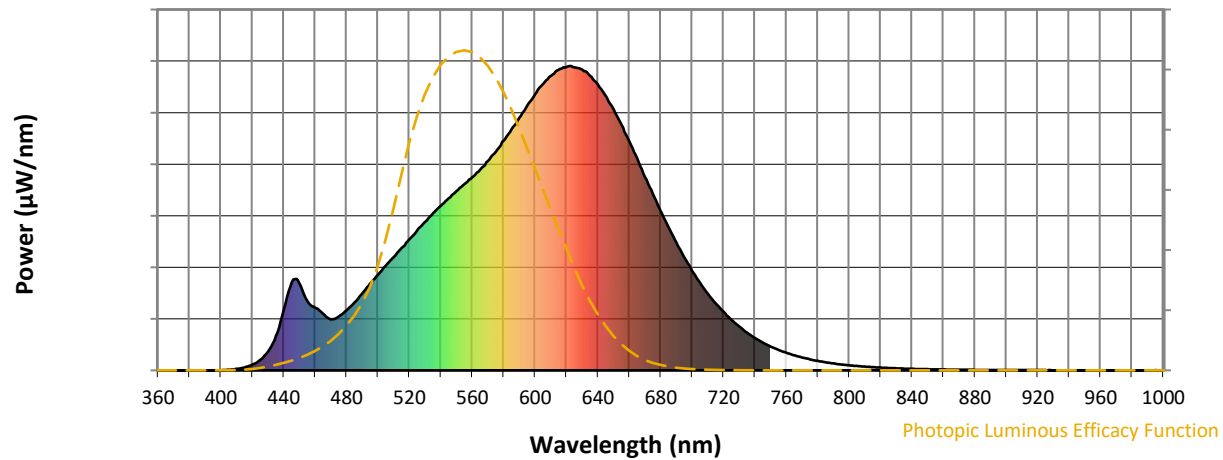
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

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

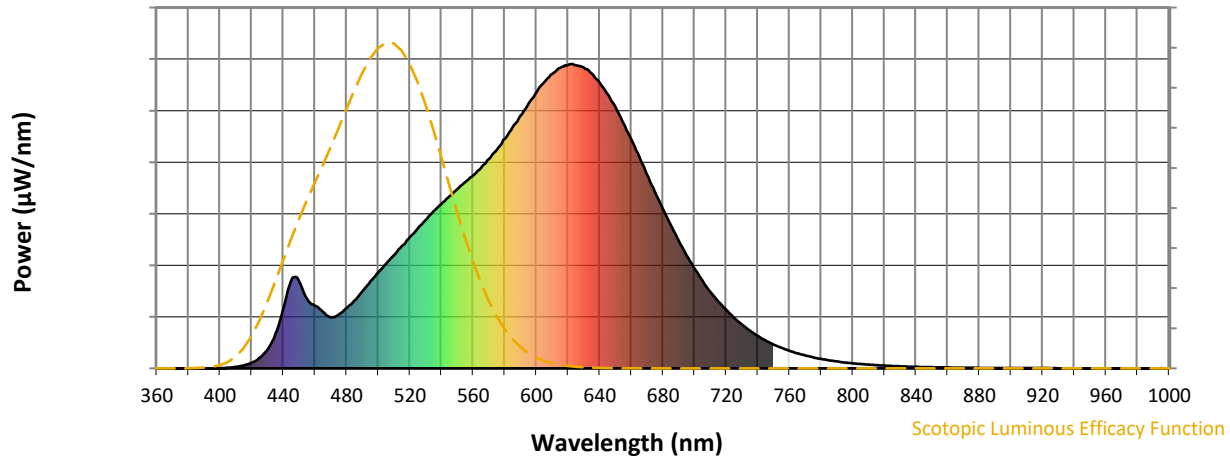


Photopic Lumens: NR

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



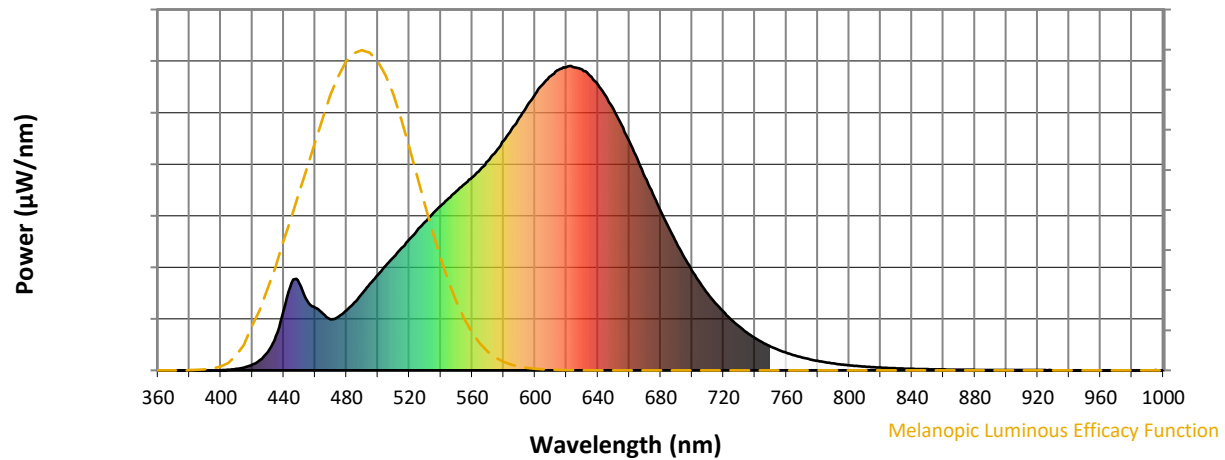
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /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	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

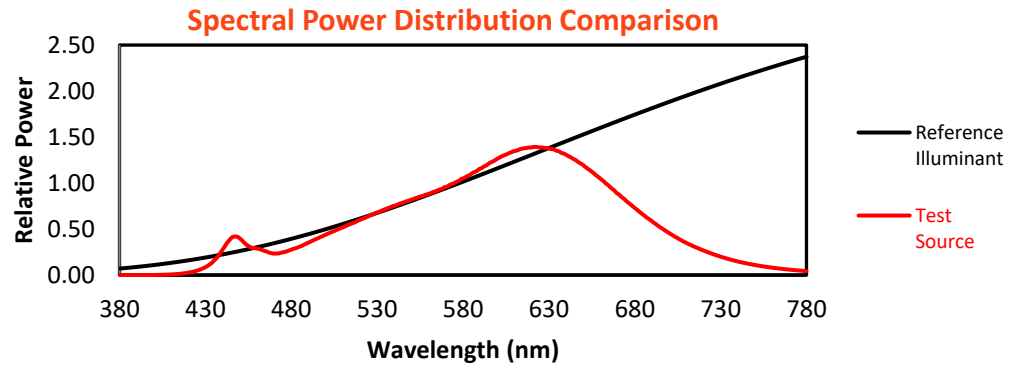
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	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

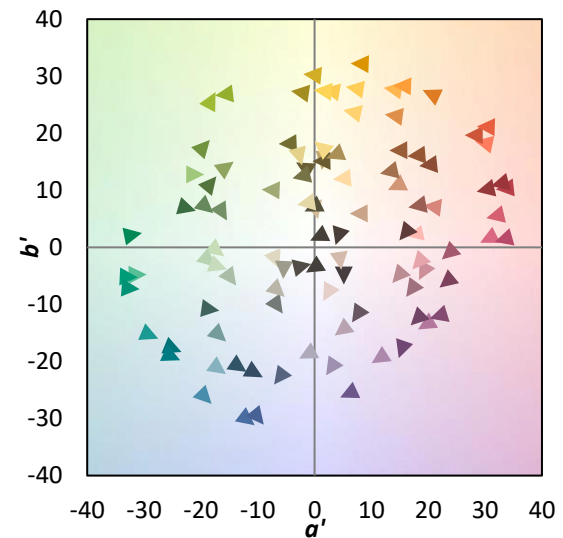
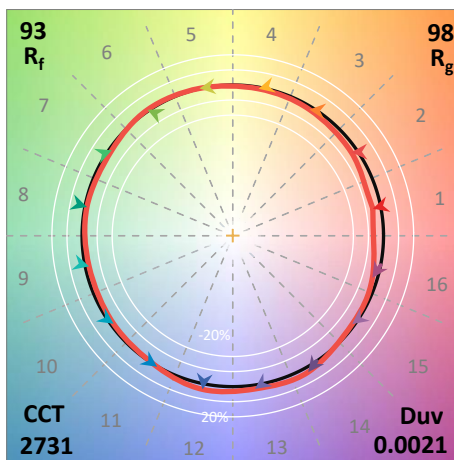
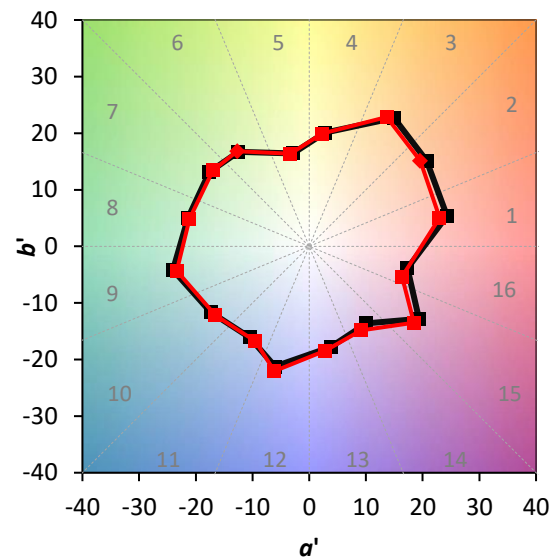
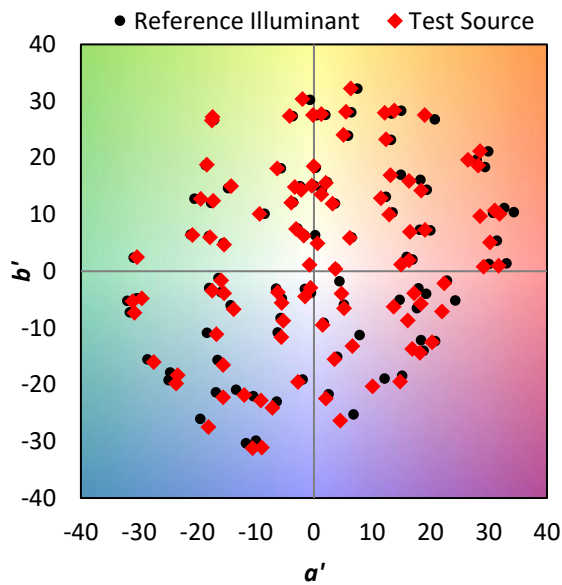
TM-30-18

Summary

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

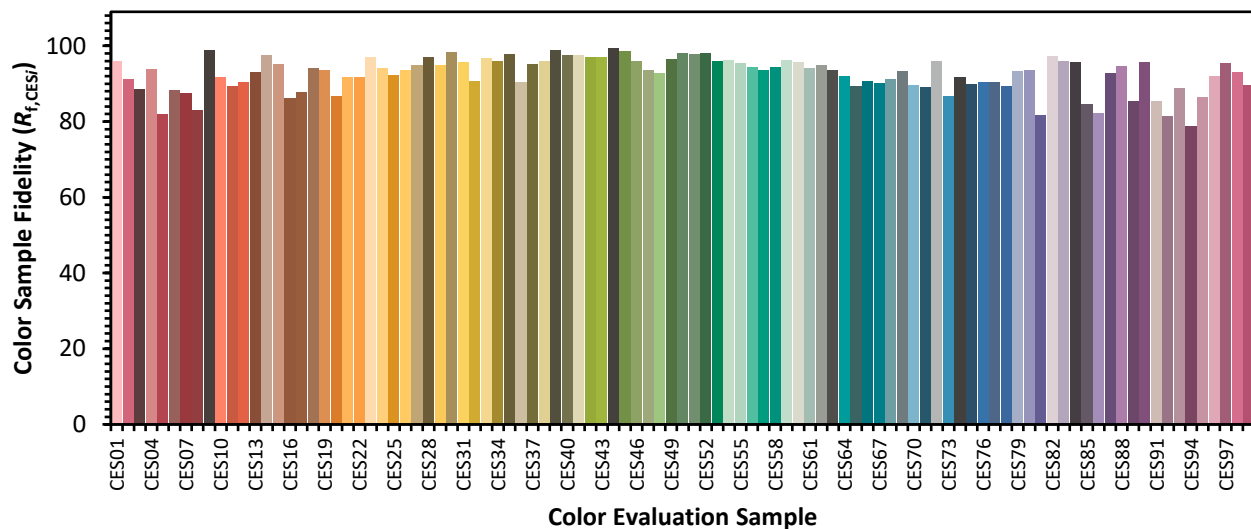


Color Vector Graphics

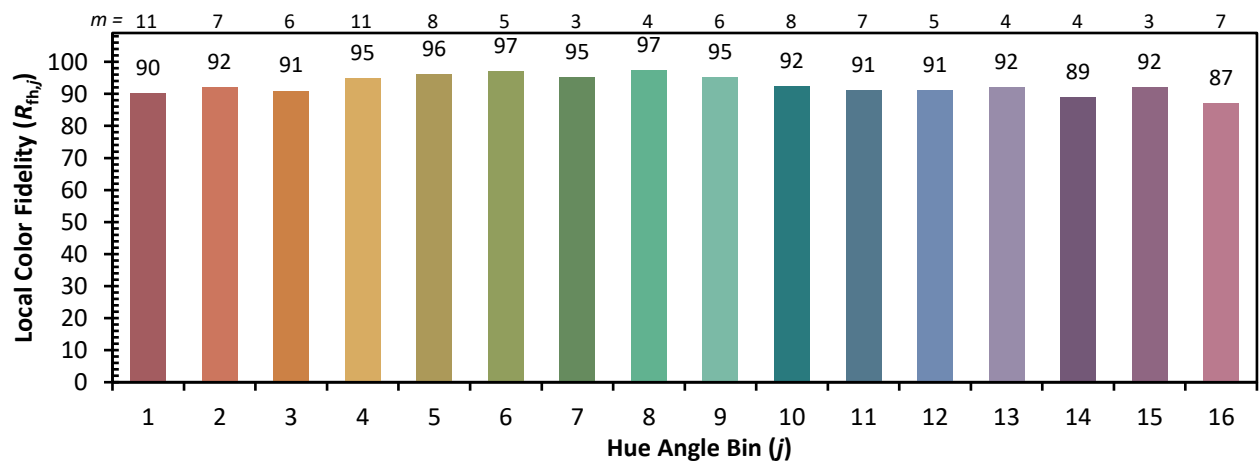
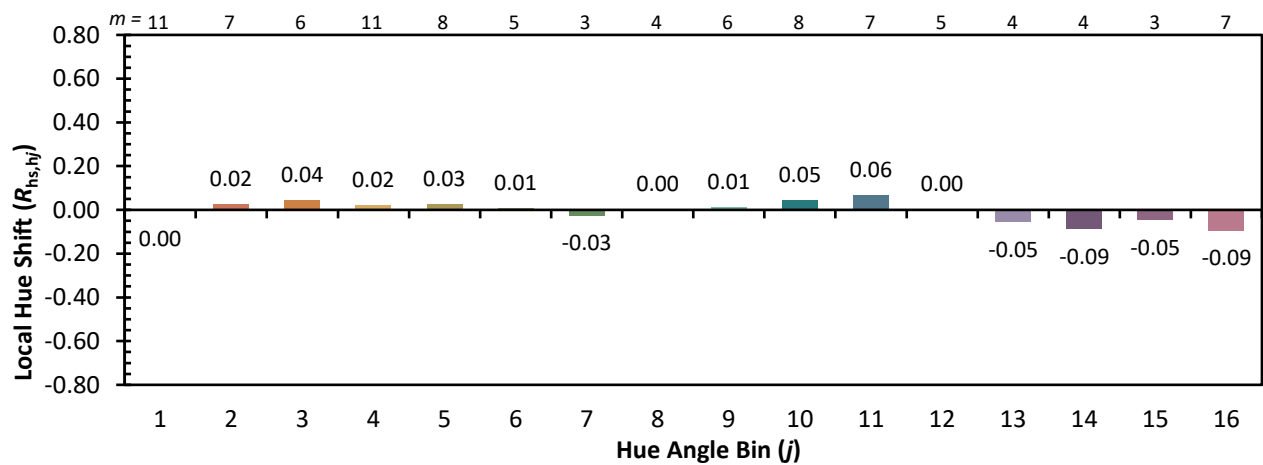
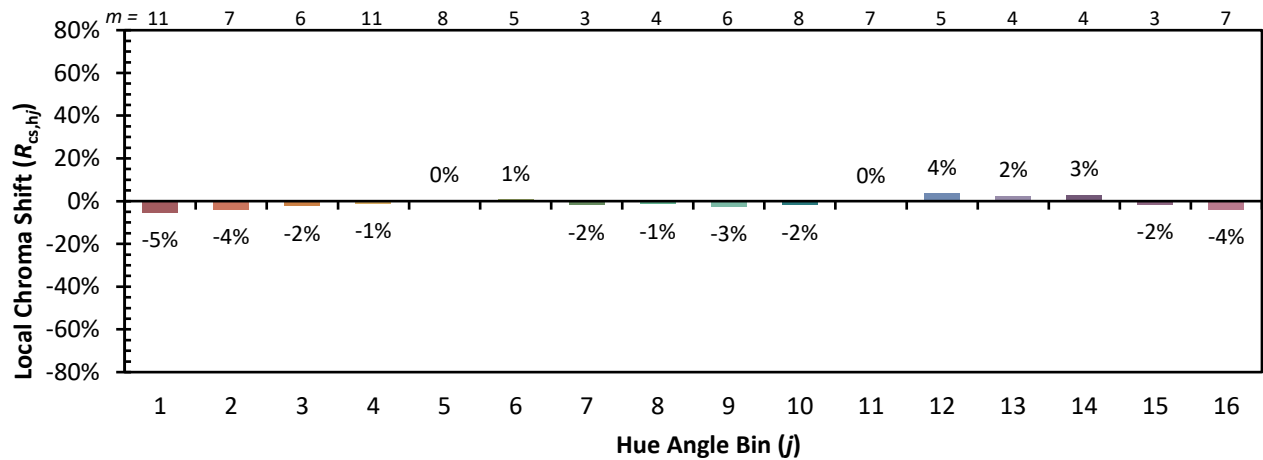


Individual Sample Fidelity Index ($R_{f,i}$)

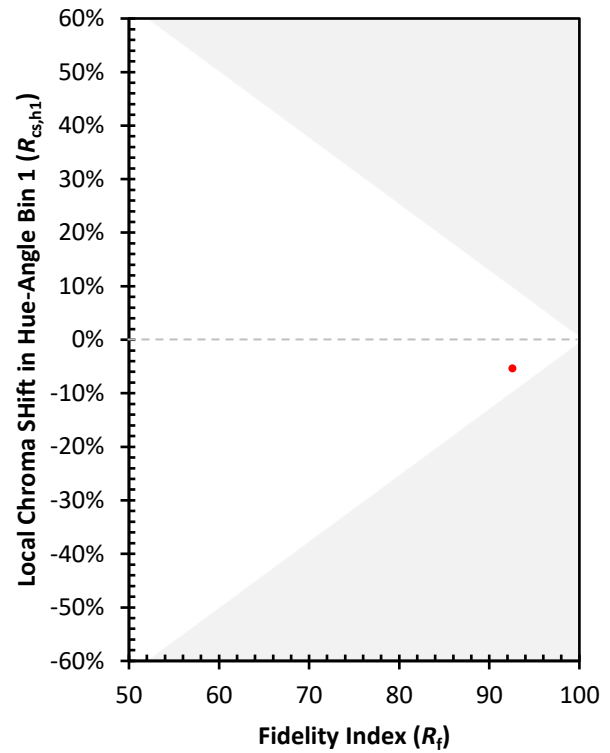
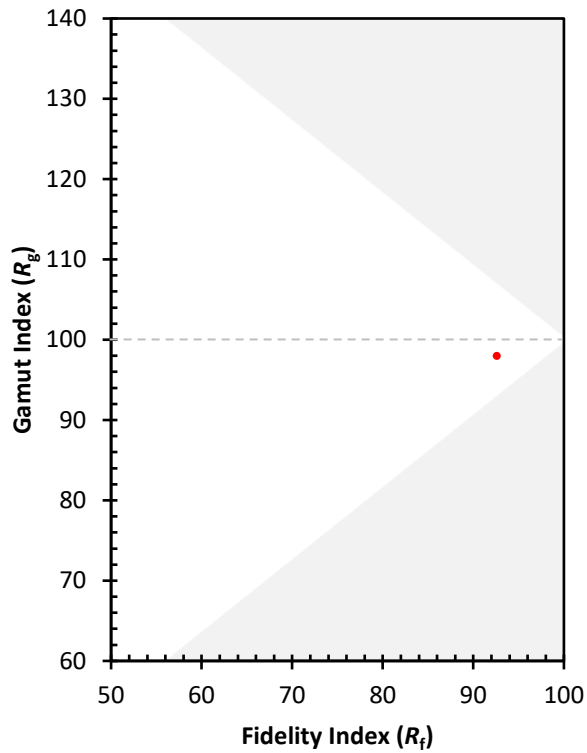
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 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)