

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: P1049911

Luminaire Tested: **GALN-SA5C-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049911
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15781.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

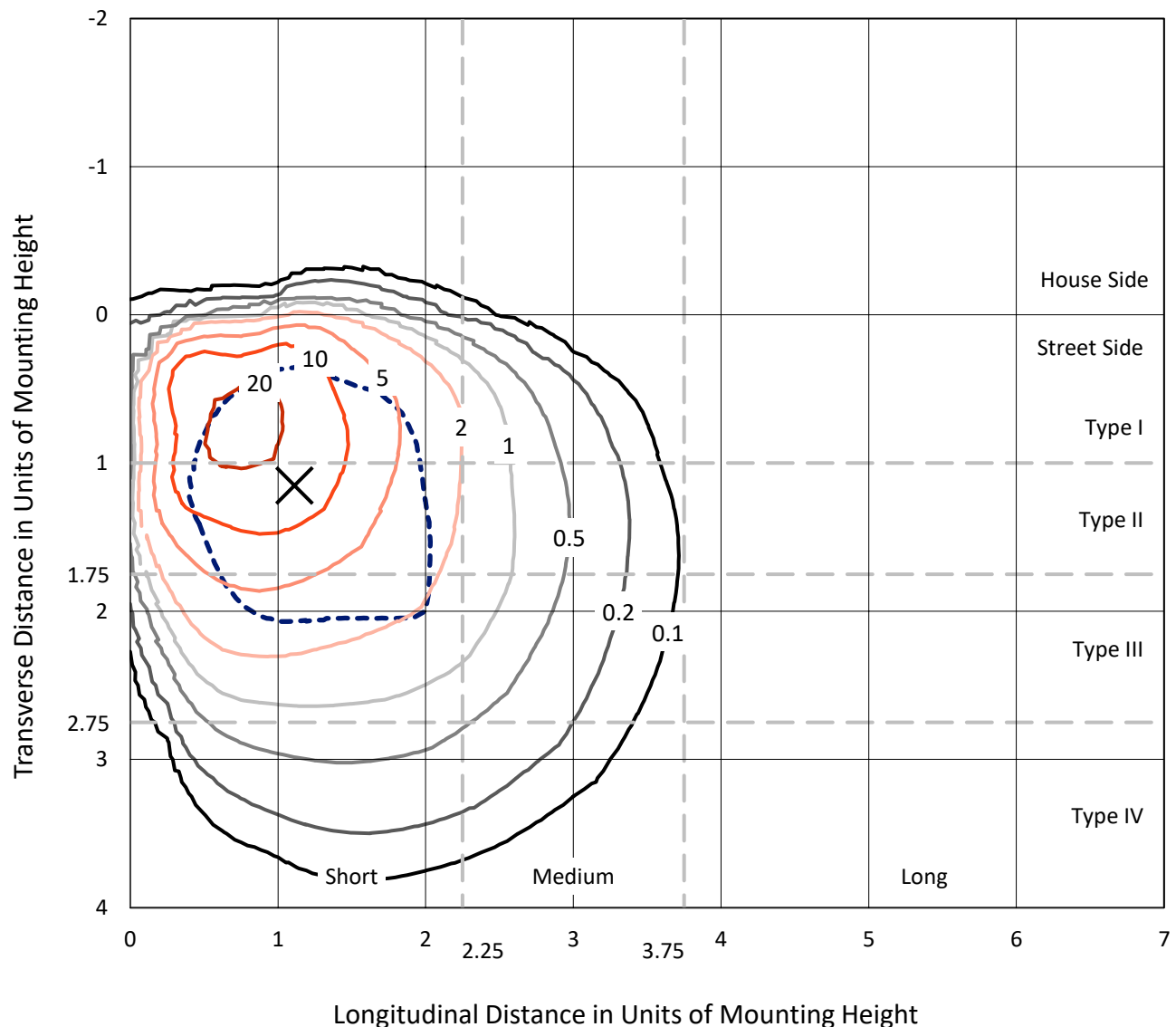
Input Watts (W): 236
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

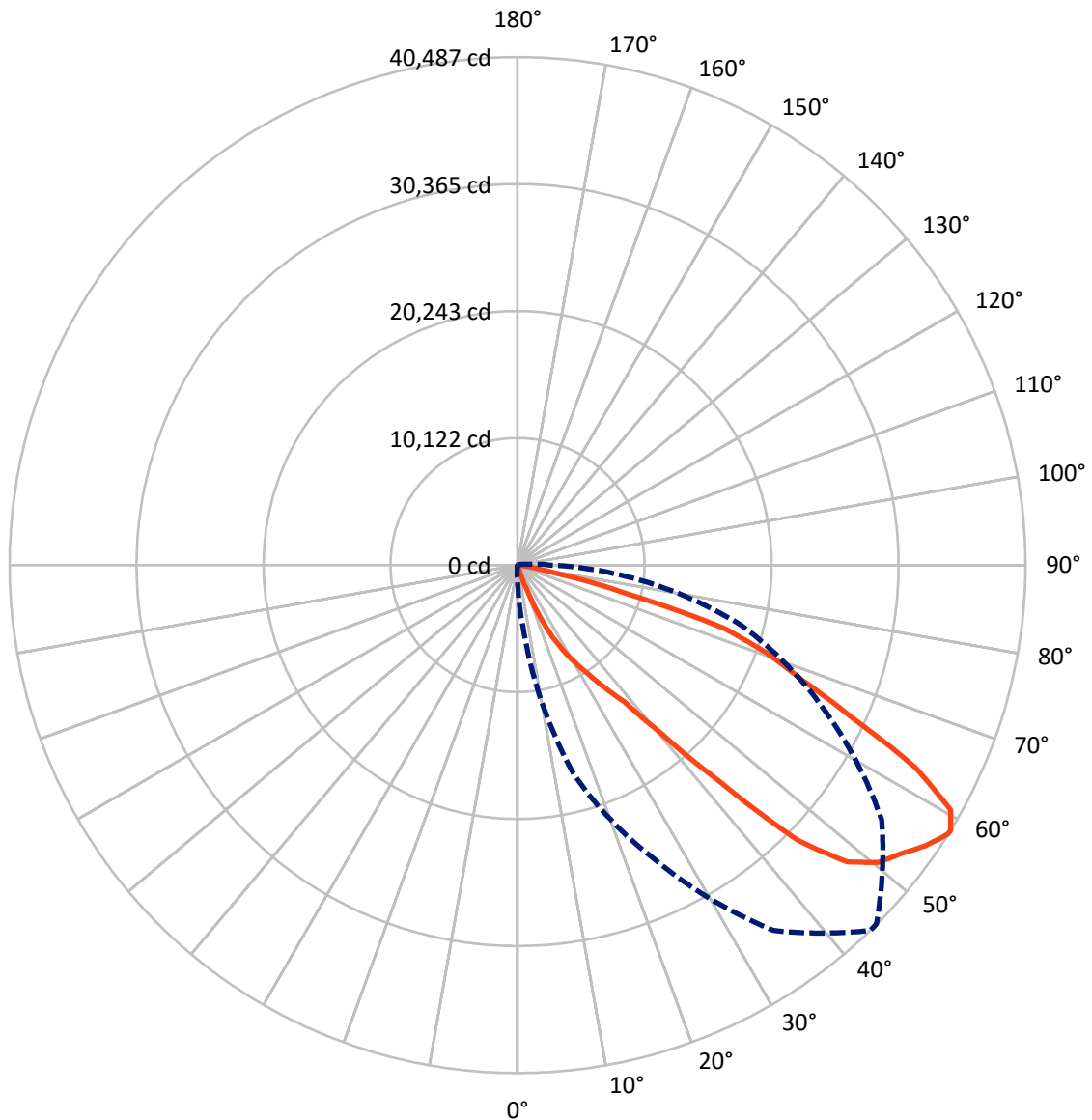
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27.5 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	107.8	0.0	107.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15674.1	0.0	15674.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	15781.9	0.0	15781.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.0
10°-20°	34.6	0.2
20°-30°	373.9	2.4
30°-40°	1105.7	7.0
40°-50°	3295.5	20.9
50°-60°	5229.2	33.1
60°-70°	4361.7	27.6
70°-80°	1345.2	8.5
80°-90°	29.9	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°	15781.9	100.0
0°-180°	15781.9	100.0



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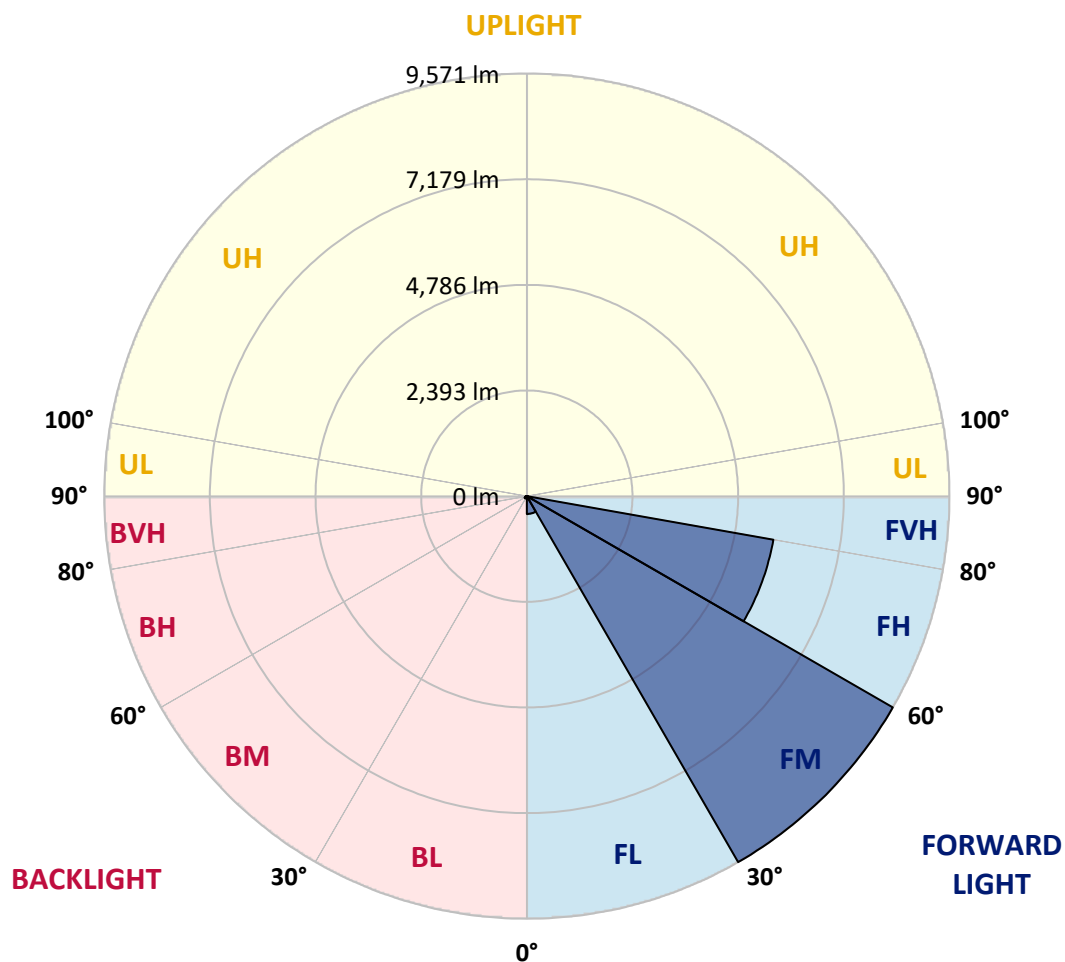
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	404.1	2.6			
FM	(30°-60°)	9571.4	60.6			
FH	(60°-80°)	5670.2	35.9			G3/7500
FVH	(80°-90°)	28.4	0.2			G1/100
BL	(0°-30°)	10.5	0.1	B0/110		
BM	(30°-60°)	59.0	0.4	B0/220		
BH	(60°-80°)	36.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
2.5°	89.4	89.4	85.8	81.1	76.3	71.5	70.3	68.0	66.8	65.6
5°	93.0	93.0	91.8	88.2	83.5	79.9	79.9	76.3	73.9	71.5
7.5°	95.4	96.6	99.0	97.8	95.4	91.8	91.8	89.4	85.8	79.9
10°	99.0	102.5	107.3	109.7	110.9	110.9	109.7	108.5	102.5	94.2
12.5°	102.5	109.7	121.6	133.5	140.7	150.2	149.0	146.6	131.1	113.3
15°	109.7	120.4	145.4	180.0	233.7	267.0	280.2	268.2	217.0	152.6
17.5°	118.0	135.9	211.0	376.7	617.6	732.0	801.1	745.1	493.6	289.7
20°	126.4	165.7	392.2	976.4	1602.3	1976.6	2080.4	1918.2	1231.5	552.0
22.5°	140.7	232.5	795.2	2018.4	3452.6	4014.1	4120.2	3601.6	2326.0	1089.7
25°	170.5	337.4	1371.0	3289.2	5152.6	6100.4	6056.3	5376.8	3773.3	1740.6
27.5°	213.4	491.2	2073.2	4673.4	6781.2	7616.9	7717.0	6876.5	5029.8	2559.6
30°	275.4	680.7	2826.7	5782.1	8086.6	8990.3	9007.0	8137.9	6154.1	3278.5
32.5°	335.0	859.6	3485.9	6853.9	9373.0	10363.7	10437.6	9368.2	6993.4	4027.2
35°	380.3	976.4	4153.6	7795.7	10670.1	12035.1	12030.3	10760.7	7987.6	4696.0
37.5°	383.9	1093.2	4758.0	8759.0	12312.9	13841.3	13992.7	12593.1	9189.4	5523.4
40°	375.5	1224.4	5523.4	10261.1	15273.1	17618.1	17751.6	15987.2	11600.0	6939.7
42.5°	385.1	1452.1	6765.7	13035.4	20188.5	23556.4	23813.9	21958.9	16031.3	9829.6
45°	435.1	1880.1	9368.2	17676.5	27194.9	31300.8	31215.0	28543.3	21187.5	14228.7
47.5°	600.9	2928.0	13226.1	22193.7	31672.8	35329.2	35403.1	32137.7	24196.6	17611.0
50°	923.9	4480.2	16467.7	24581.7	33598.2	37266.5	37197.4	33424.1	25339.9	19276.4
52.5°	1201.7	5603.3	18093.8	25419.8	33845.0	38223.8	38219.1	33762.7	25517.5	19419.5
55°	1270.9	5687.9	18106.9	25465.1	34398.1	39476.8	39634.2	34596.0	25747.6	18794.8
57.5°	1243.4	5035.8	17351.1	25727.4	35382.9	40446.1	40454.4	35403.1	26331.8	18412.1
58°	1219.6	4933.3	17198.5	25876.4	35552.2	40486.6	40466.3	35440.1	26807.5	18397.8
60°	1086.1	4283.5	16603.6	26256.7	35300.6	39654.5	39464.9	34633.0	26737.1	18251.2
62.5°	853.6	3341.7	16018.2	25816.8	32603.9	35626.1	35704.8	30661.8	24374.2	17396.4
65°	679.5	2490.5	14797.4	22645.6	26848.0	29256.2	29549.5	24933.4	20344.6	14730.6
67.5°	541.3	1800.2	12413.0	18029.4	21244.7	24417.1	24630.5	20933.6	15761.9	11286.4
70°	439.9	1217.2	8568.2	13185.6	17522.7	21089.8	21102.9	17390.4	11764.5	7395.1
72.5°	389.8	842.9	4973.8	9616.2	14208.5	17185.4	16838.4	14111.9	9041.5	4380.1
75°	337.4	559.1	2439.2	5878.7	8614.7	8673.1	8805.5	6546.3	4519.6	2082.7
77.5°	277.8	397.0	960.9	1605.9	2583.5	3307.1	3429.9	2599.0	1503.3	512.6
80°	190.7	188.4	258.7	492.4	739.2	926.3	864.3	668.8	393.4	196.7
82.5°	82.3	89.4	116.8	140.7	114.4	110.9	106.1	68.0	52.5	40.5
85°	26.2	23.8	25.0	25.0	20.3	15.5	15.5	7.2	0.0	0.0
87.5°	13.1	10.7	10.7	9.5	6.0	2.4	1.2	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°
69.1	0°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
64.4	2.5°	63.2	63.2	60.8	58.4	57.2	54.8	53.6	52.5	51.3	50.1
69.1	5°	66.8	65.6	62.0	58.4	54.8	51.3	48.9	46.5	44.1	42.9
76.3	7.5°	72.7	70.3	63.2	57.2	52.5	47.7	45.3	41.7	39.3	35.8
84.6	10°	79.9	75.1	65.6	58.4	51.3	45.3	41.7	38.1	34.6	29.8
96.6	12.5°	89.4	81.1	69.1	57.2	48.9	41.7	38.1	33.4	29.8	26.2
112.1	15°	97.8	87.0	70.3	57.2	46.5	38.1	33.4	28.6	25.0	20.3
140.7	17.5°	109.7	91.8	69.1	53.6	42.9	33.4	28.6	25.0	19.1	11.9
208.6	20°	129.9	95.4	66.8	50.1	37.0	27.4	21.5	16.7	8.3	2.4
313.5	22.5°	162.1	104.9	64.4	45.3	32.2	21.5	14.3	6.0	0.0	0.0
476.9	25°	224.1	121.6	64.4	42.9	28.6	15.5	4.8	0.0	0.0	0.0
677.2	27.5°	298.0	144.3	64.4	37.0	22.7	8.3	0.0	0.0	0.0	0.0
922.8	30°	373.2	169.3	64.4	32.2	17.9	1.2	0.0	0.0	0.0	0.0
1136.2	32.5°	444.7	190.7	65.6	27.4	11.9	0.0	0.0	0.0	0.0	0.0
1431.8	35°	517.4	194.3	64.4	23.8	7.2	0.0	0.0	0.0	0.0	0.0
1794.2	37.5°	610.4	187.2	60.8	21.5	3.6	0.0	0.0	0.0	0.0	0.0
2360.5	40°	751.1	190.7	57.2	20.3	1.2	0.0	0.0	0.0	0.0	0.0
3370.3	42.5°	1011.0	206.2	52.5	20.3	0.0	0.0	0.0	0.0	0.0	0.0
5368.4	45°	1747.7	276.6	47.7	21.5	0.0	0.0	0.0	0.0	0.0	0.0
8059.2	47.5°	2891.0	497.1	46.5	21.5	0.0	0.0	0.0	0.0	0.0	0.0
9708.0	50°	3689.8	625.9	48.9	22.7	0.0	0.0	0.0	0.0	0.0	0.0
9914.2	52.5°	3683.9	697.4	51.3	23.8	4.8	0.0	0.0	0.0	0.0	0.0
9138.1	55°	3274.9	710.5	54.8	26.2	15.5	0.0	0.0	0.0	0.0	0.0
7852.9	57.5°	2737.3	648.5	63.2	32.2	28.6	0.0	0.0	0.0	0.0	0.0
7651.4	58°	2641.9	619.9	65.6	33.4	31.0	0.0	0.0	0.0	0.0	0.0
6636.9	60°	2165.0	505.5	83.5	41.7	41.7	0.0	0.0	0.0	0.0	0.0
5441.1	62.5°	1495.0	441.1	95.4	53.6	42.9	0.0	0.0	0.0	0.0	0.0
4011.7	65°	1057.5	398.2	103.7	57.2	34.6	0.0	0.0	0.0	0.0	0.0
2850.5	67.5°	790.4	367.2	114.4	58.4	17.9	0.0	0.0	0.0	0.0	0.0
1788.3	70°	605.6	344.5	140.7	62.0	4.8	0.0	0.0	0.0	0.0	0.0
1065.8	72.5°	493.6	318.3	170.5	64.4	0.0	0.0	0.0	0.0	0.0	0.0
639.0	75°	408.9	287.3	164.5	70.3	0.0	0.0	0.0	0.0	0.0	0.0
341.0	77.5°	271.8	222.9	150.2	70.3	0.0	0.0	0.0	0.0	0.0	0.0
121.6	80°	95.4	88.2	116.8	62.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	82.5°	14.3	11.9	16.7	21.5	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°
69.1	0°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
48.9	2.5°	48.9	48.9	47.7	48.9	48.9	51.3	57.2	65.6	75.1	78.7
41.7	5°	40.5	39.3	38.1	38.1	38.1	41.7	46.5	56.0	66.8	71.5
34.6	7.5°	33.4	32.2	31.0	29.8	29.8	32.2	38.1	48.9	59.6	64.4
28.6	10°	27.4	25.0	23.8	22.7	22.7	25.0	31.0	41.7	53.6	58.4
23.8	12.5°	22.7	19.1	16.7	15.5	14.3	17.9	23.8	33.4	46.5	52.5
17.9	15°	15.5	11.9	8.3	7.2	6.0	9.5	15.5	26.2	39.3	46.5
9.5	17.5°	8.3	3.6	1.2	0.0	0.0	2.4	7.2	19.1	32.2	38.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	23.8	29.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.3	20.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	10.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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	3.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
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°
69.1	0°	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
82.3	2.5°	84.6	83.5	81.1	78.7	78.7	78.7	82.3	85.8	89.4	89.4
73.9	5°	78.7	78.7	77.5	75.1	75.1	76.3	81.1	87.0	91.8	93.0
68.0	7.5°	72.7	75.1	72.7	71.5	72.7	73.9	78.7	85.8	93.0	95.4
63.2	10°	69.1	70.3	70.3	69.1	69.1	71.5	76.3	85.8	95.4	99.0
57.2	12.5°	64.4	66.8	65.6	65.6	65.6	68.0	73.9	84.6	97.8	102.5
51.3	15°	59.6	63.2	63.2	62.0	62.0	63.2	71.5	83.5	101.3	109.7
44.1	17.5°	54.8	58.4	59.6	57.2	57.2	59.6	68.0	83.5	103.7	118.0
35.8	20°	45.3	51.3	54.8	51.3	51.3	53.6	62.0	78.7	104.9	126.4
26.2	22.5°	35.8	41.7	46.5	45.3	45.3	46.5	57.2	75.1	106.1	140.7
15.5	25°	26.2	32.2	35.8	38.1	38.1	41.7	52.5	72.7	110.9	170.5
7.2	27.5°	15.5	22.7	27.4	29.8	31.0	35.8	48.9	70.3	119.2	213.4
0.0	30°	7.2	13.1	19.1	23.8	23.8	32.2	45.3	68.0	129.9	275.4
0.0	32.5°	0.0	6.0	9.5	16.7	17.9	26.2	41.7	65.6	145.4	335.0
0.0	35°	0.0	0.0	4.8	13.1	13.1	21.5	38.1	63.2	169.3	380.3
0.0	37.5°	0.0	0.0	0.0	9.5	10.7	19.1	37.0	62.0	174.1	383.9
0.0	40°	0.0	0.0	0.0	7.2	8.3	17.9	37.0	63.2	157.4	375.5
0.0	42.5°	0.0	0.0	0.0	4.8	6.0	17.9	37.0	65.6	141.9	385.1
0.0	45°	0.0	0.0	0.0	3.6	4.8	19.1	35.8	64.4	133.5	435.1
0.0	47.5°	0.0	0.0	0.0	4.8	7.2	19.1	34.6	63.2	134.7	600.9
0.0	50°	0.0	0.0	0.0	6.0	8.3	19.1	35.8	60.8	147.8	923.9
0.0	52.5°	0.0	0.0	0.0	4.8	7.2	21.5	39.3	59.6	160.9	1201.7
0.0	55°	0.0	0.0	0.0	1.2	3.6	27.4	42.9	59.6	181.2	1270.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.0	48.9	63.2	214.6	1243.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.0	50.1	63.2	217.0	1219.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.0	54.8	70.3	233.7	1086.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	26.2	65.6	88.2	243.2	853.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.5	77.5	96.6	250.4	679.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.3	79.9	97.8	253.9	541.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.5	78.7	104.9	265.9	439.9
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	23.8	71.5	115.6	265.9	389.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.0	66.8	129.9	242.0	337.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	23.8	65.6	151.4	215.8	277.8
0.0	80°	2.4	3.6	3.6	2.4	2.4	20.3	64.4	153.8	183.6	190.7
1.2	82.5°	7.2	9.5	8.3	6.0	6.0	17.9	57.2	128.8	95.4	82.3
7.2	85°	13.1	15.5	15.5	13.1	13.1	16.7	35.8	46.5	32.2	26.2
13.1	87.5°	17.9	20.3	20.3	17.9	17.9	16.7	15.5	14.3	13.1	13.1
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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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

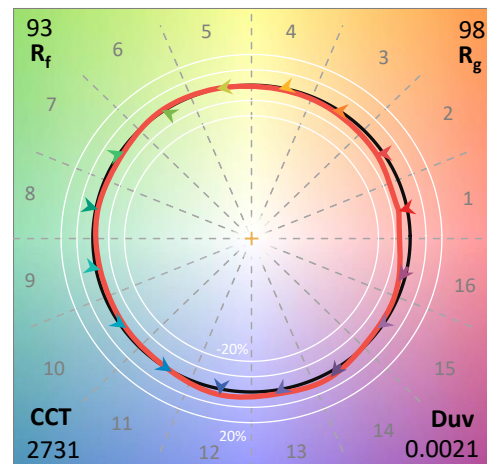
Test Information

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

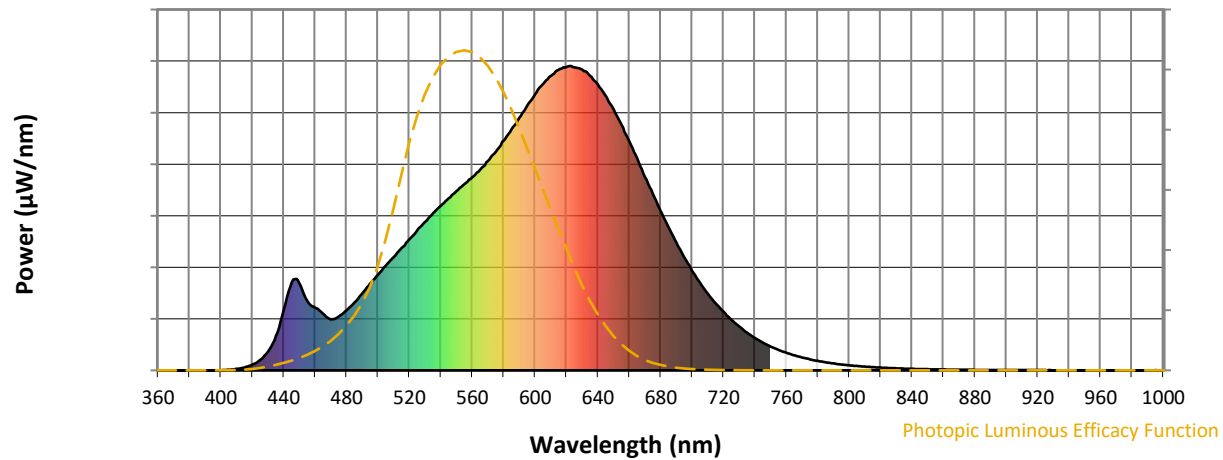
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

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

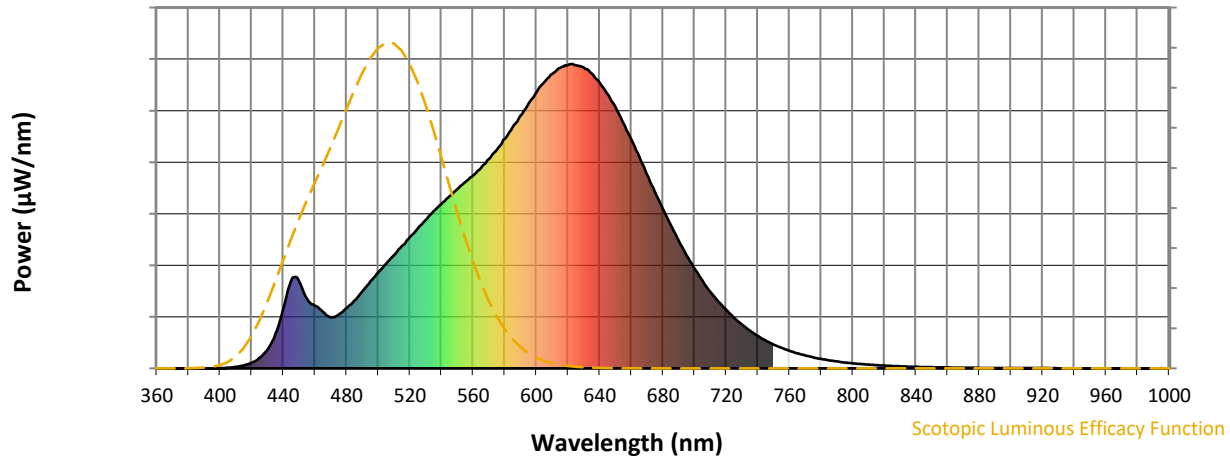


Photopic Lumens: NR

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



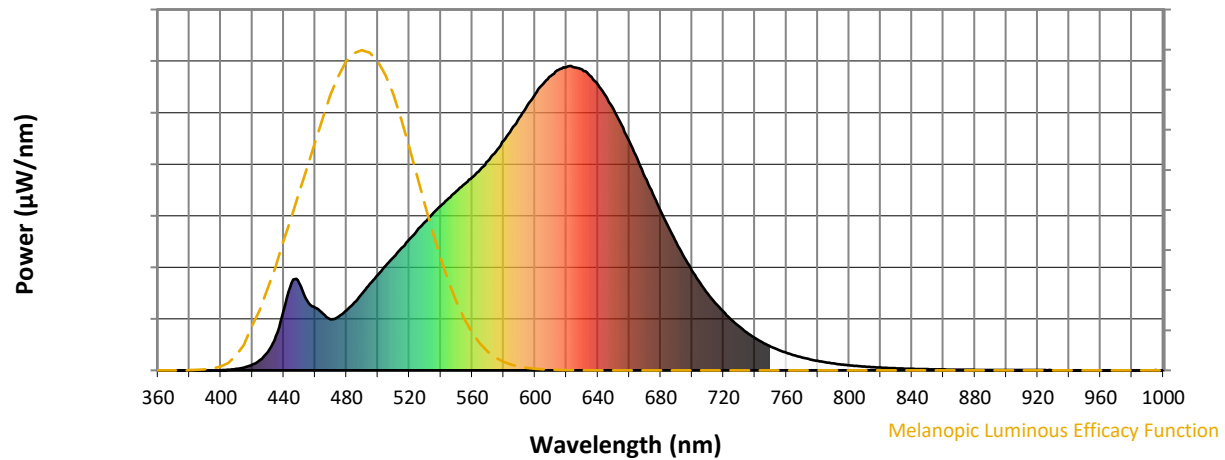
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.38

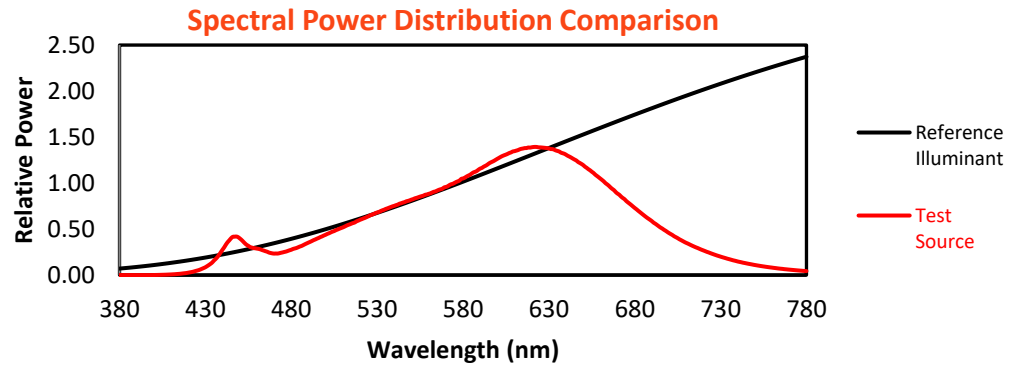
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253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

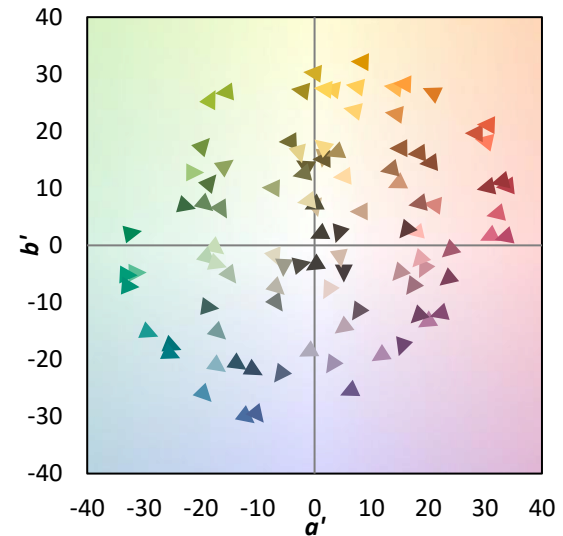
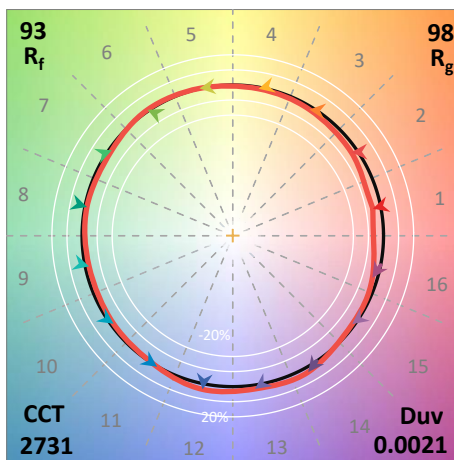
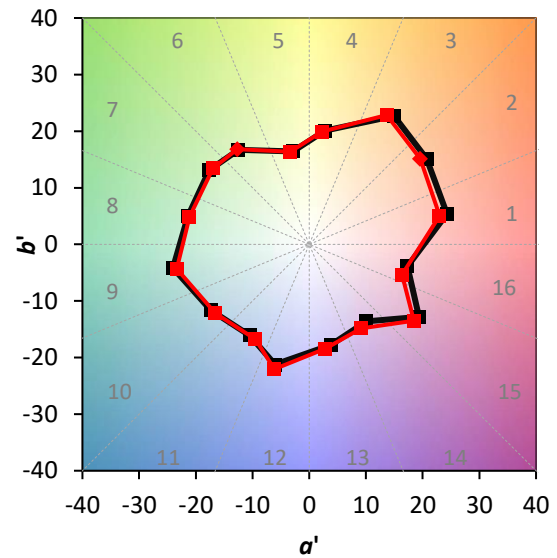
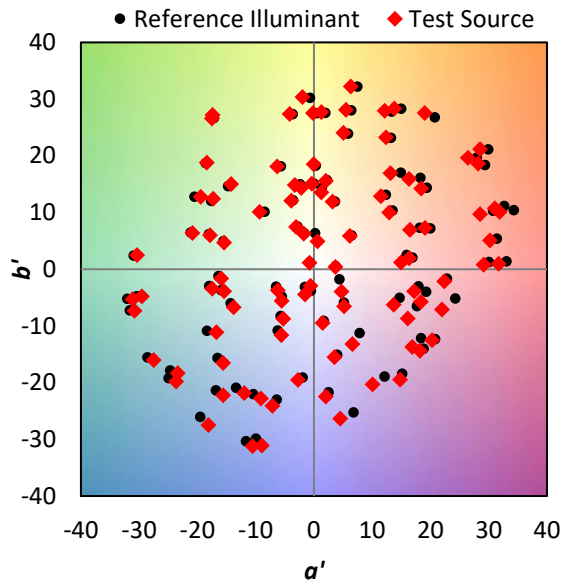
TM-30-18

Summary

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

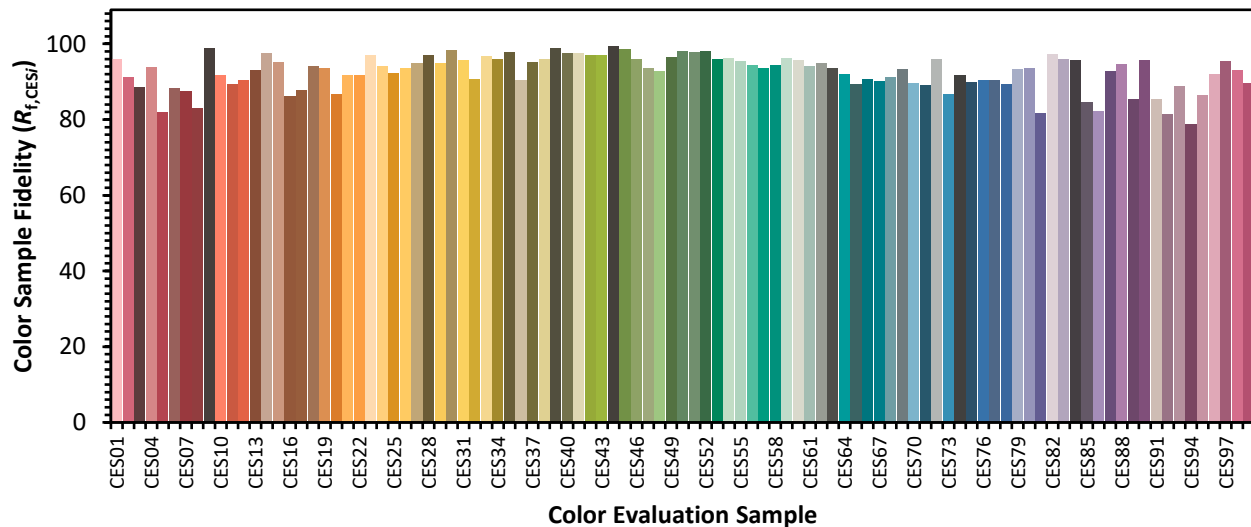


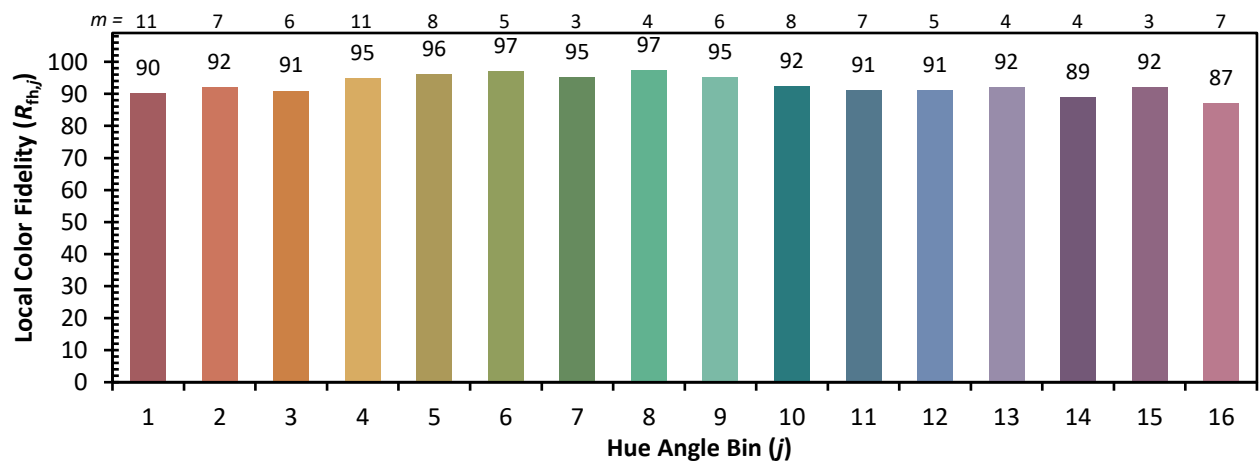
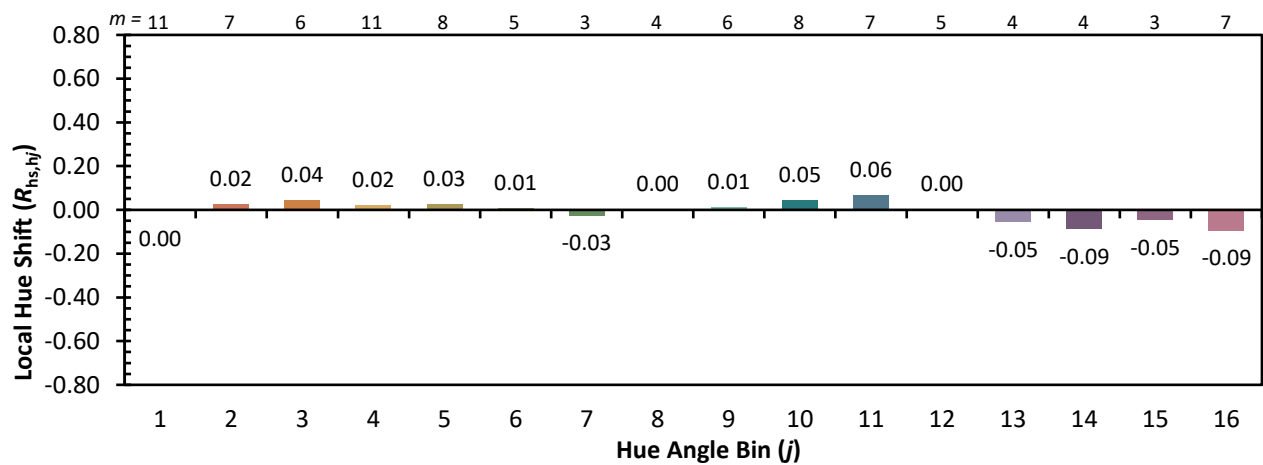
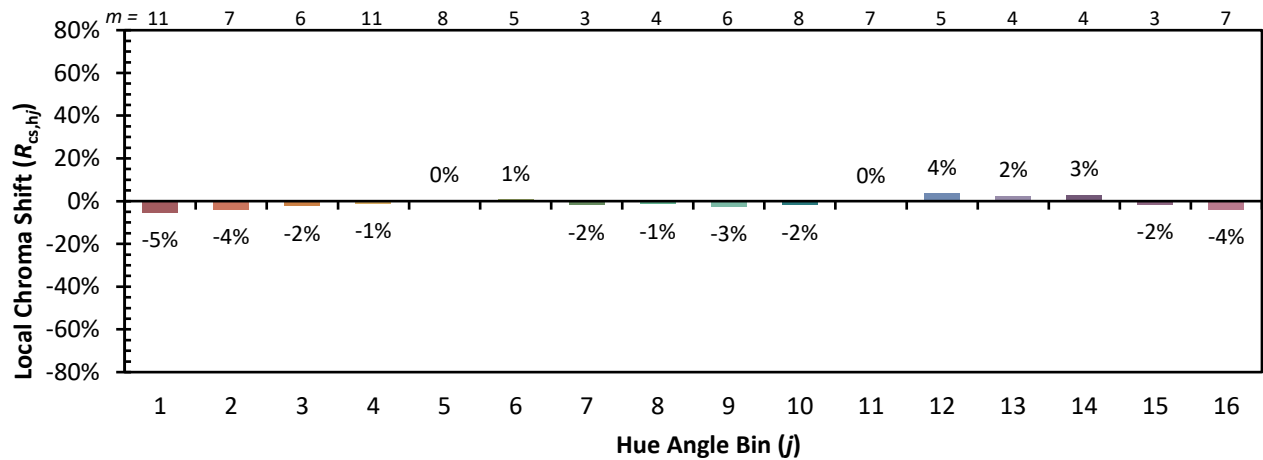
Color Vector Graphics



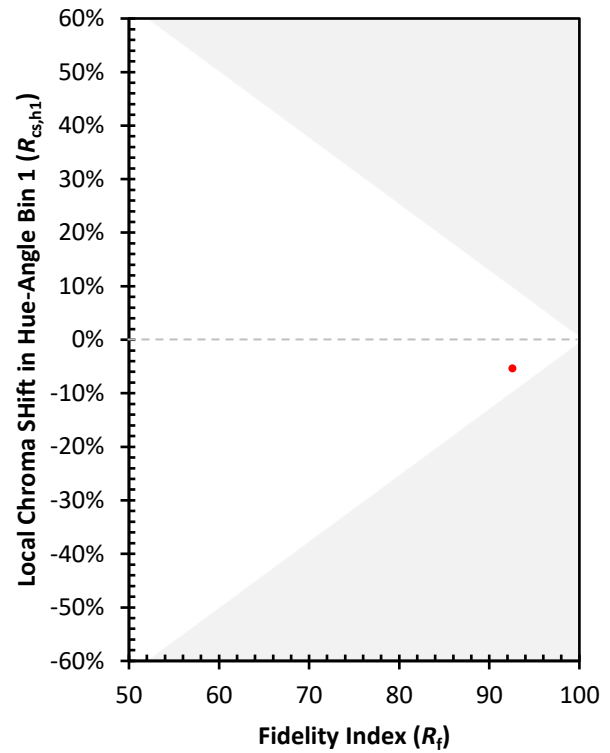
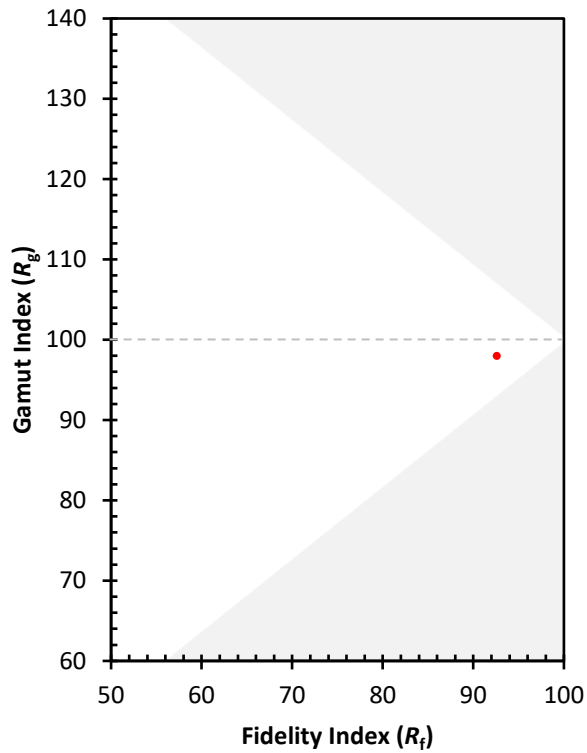
Individual Sample Fidelity Index ($R_{f,i}$)

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)