

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: LUMARK

Report Number: P1067989

Luminaire Tested: **NAV-SA1A-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067989
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3187.7 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29.2
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

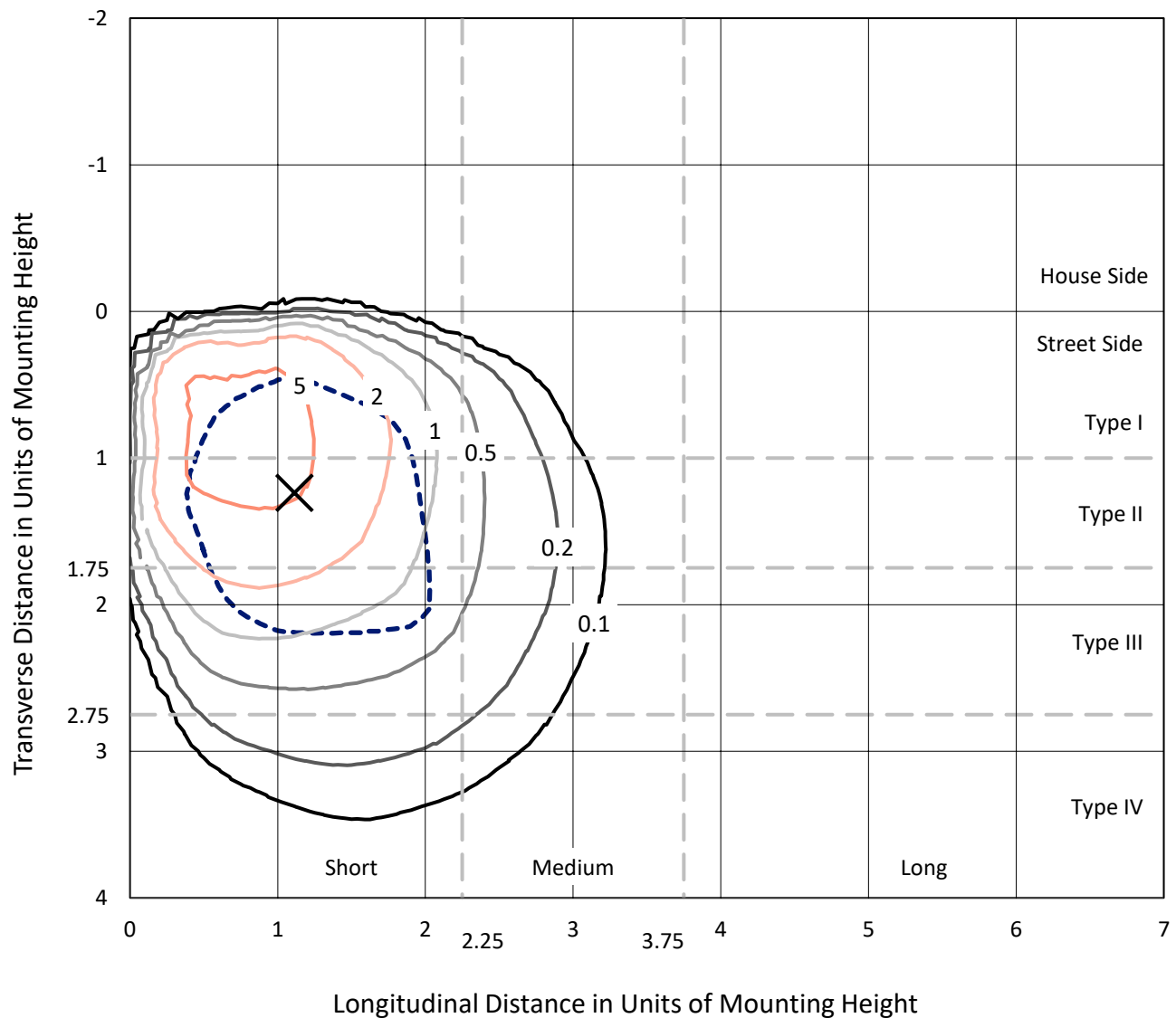


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

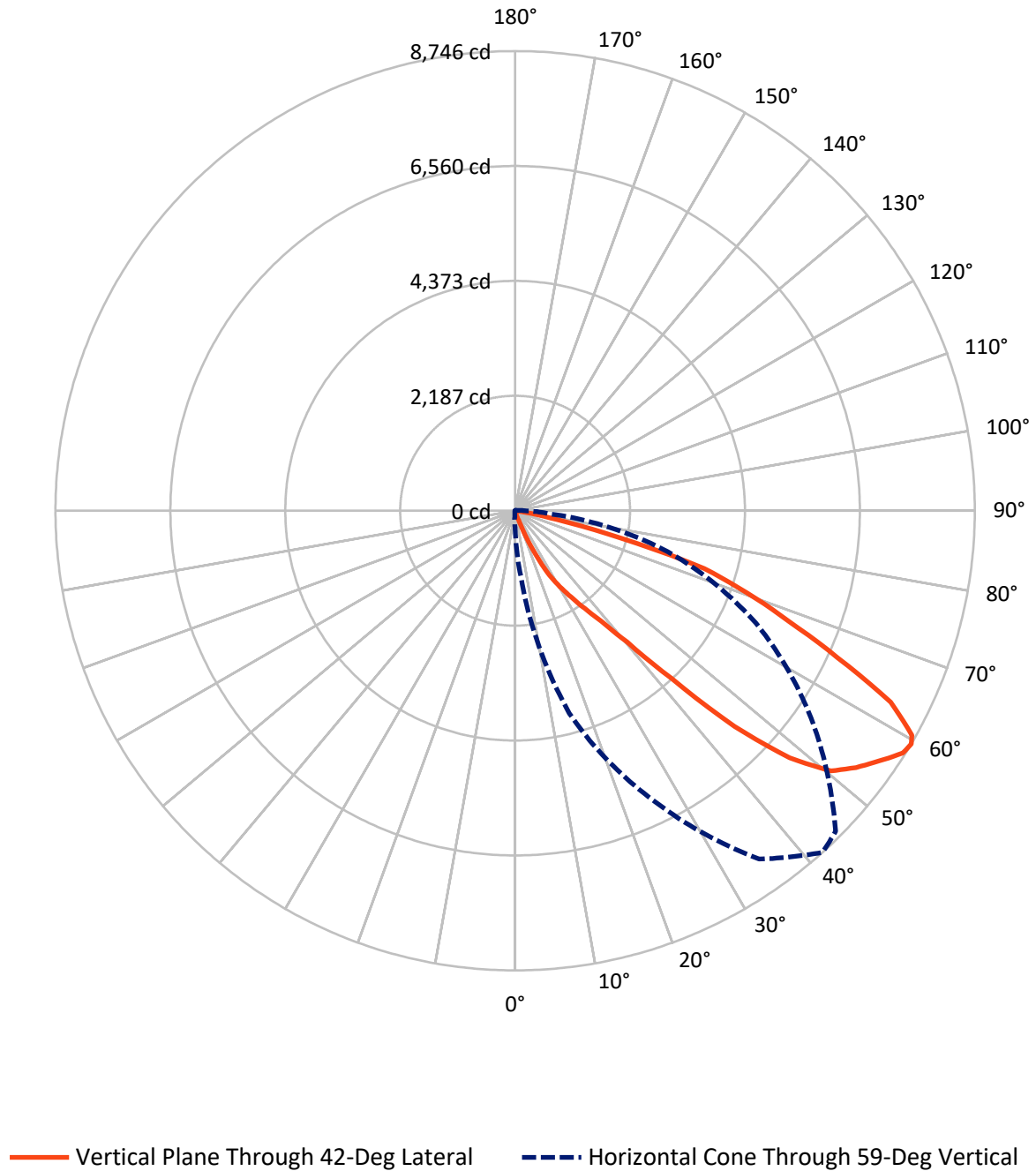


Based on 15 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15.4	0.0	15.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	3172.4	0.0	3172.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	3187.7	0.0	3187.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.0
10°-20°	4.7	0.1
20°-30°	59.5	1.9
30°-40°	200.5	6.3
40°-50°	605.5	19.0
50°-60°	1068.8	33.5
60°-70°	941.1	29.5
70°-80°	299.6	9.4
80°-90°	7.2	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°	3187.7	100.0
0°-180°	3187.7	100.0



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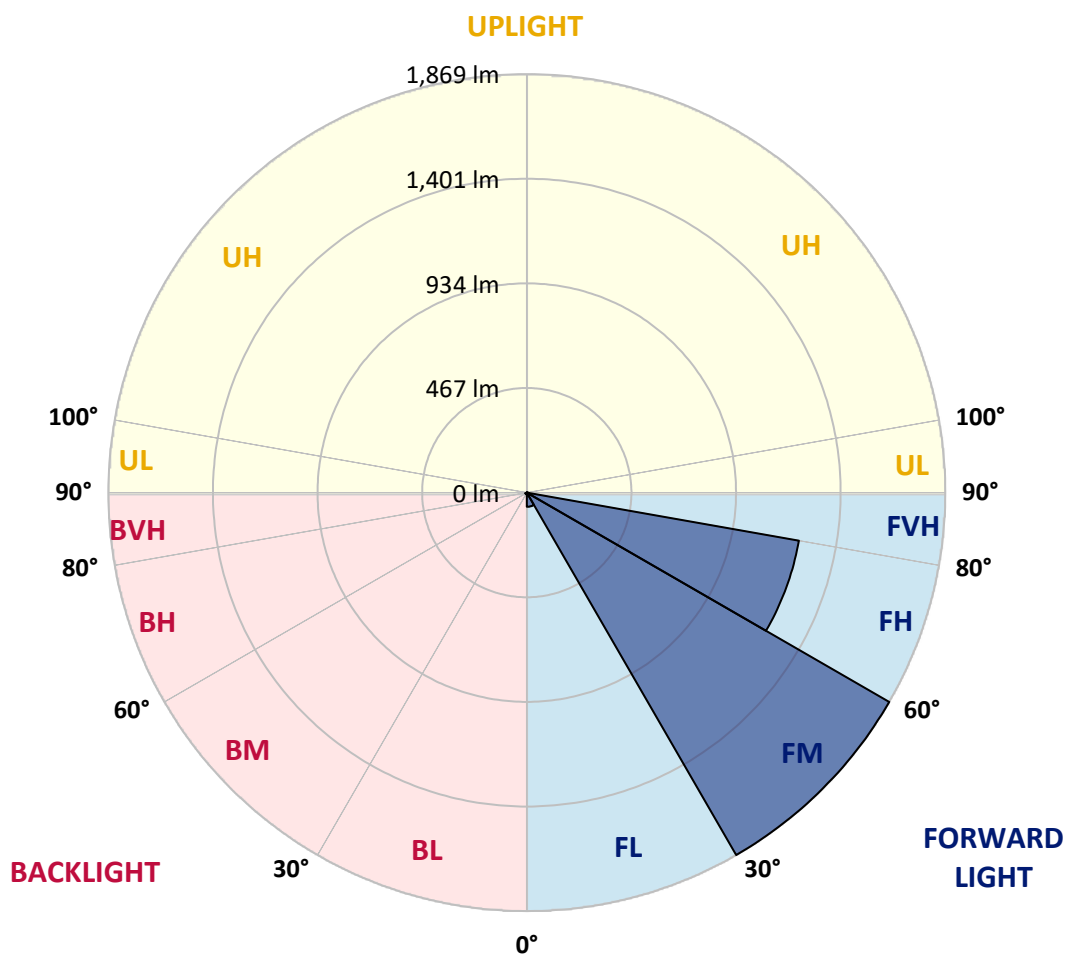
CATALOG NUMBER: NAV-SA1A-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	63.3	2.0			
FM	(30°-60°)	1868.5	58.6			
FH	(60°-80°)	1233.7	38.7			G1/1800
FVH	(80°-90°)	6.8	0.2			G0/10
BL	(0°-30°)	1.7	0.1	B0/110		
BM	(30°-60°)	6.3	0.2	B0/220		
BH	(60°-80°)	7.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	14.0	14.0	13.0	12.0	11.0	10.0	10.0	10.0	9.0	9.0	8.0
5°	16.0	16.0	15.0	14.0	14.0	13.0	13.0	12.0	11.0	11.0	10.0
7.5°	17.0	17.0	17.0	17.0	16.0	16.0	16.0	15.0	14.0	13.0	12.0
10°	18.0	19.0	20.0	20.0	20.0	20.0	20.0	19.0	17.0	16.0	14.0
12.5°	20.0	21.0	23.0	25.0	25.0	26.0	25.0	24.0	22.0	19.0	16.0
15°	22.0	24.0	27.0	31.0	35.0	36.0	36.0	33.0	29.0	23.0	19.0
17.5°	25.0	28.0	36.0	49.0	63.0	74.0	74.0	66.0	46.0	30.0	22.0
20°	27.0	33.0	58.0	117.9	179.9	225.9	216.9	191.9	102.9	47.0	24.0
22.5°	30.0	42.0	122.9	309.8	479.7	563.7	543.7	412.8	230.9	84.0	29.0
25°	34.0	61.0	243.9	580.7	891.5	982.5	969.5	770.6	420.8	140.9	37.0
27.5°	42.0	90.0	390.8	880.5	1315.3	1393.2	1388.2	1128.4	672.6	226.9	48.0
30°	53.0	130.9	579.7	1196.3	1596.1	1675.1	1650.1	1390.2	907.5	346.8	62.0
32.5°	66.0	182.9	750.6	1429.2	1855.0	1958.9	1928.9	1618.1	1096.4	448.8	91.9
35°	86.0	233.9	919.5	1635.1	2153.8	2285.8	2235.8	1853.0	1259.3	563.7	110.9
37.5°	95.9	263.9	1074.4	1859.0	2489.6	2669.5	2631.6	2149.8	1425.2	710.6	135.9
40°	96.9	299.8	1235.3	2150.8	2964.4	3285.2	3217.2	2659.5	1734.1	899.5	174.9
42.5°	99.9	353.8	1444.2	2648.6	3896.9	4357.6	4280.7	3597.0	2434.7	1278.3	247.9
45°	113.9	455.8	1870.0	3579.0	5177.2	5852.8	5763.8	4903.3	3413.1	1990.9	422.8
47.5°	162.9	685.6	2616.6	4583.5	6486.5	7025.2	7003.2	5932.8	4299.7	2721.5	716.6
50°	261.9	1052.4	3466.1	5428.0	7320.0	7782.7	7727.8	6362.5	4805.4	3220.2	918.5
52.5°	349.8	1403.2	3999.8	5738.9	7568.9	8120.6	8053.6	6519.4	4938.3	3367.2	974.5
55°	371.8	1530.2	4158.7	5834.8	7733.8	8406.4	8309.5	6624.4	4955.3	3262.2	881.5
57.5°	360.8	1410.2	4055.8	5928.8	7963.6	8700.2	8571.3	6829.3	5012.3	3084.3	733.6
59°	341.8	1262.3	3991.8	6003.7	8090.6	8746.2	8625.3	6874.2	5050.2	3003.4	643.6
60°	319.8	1162.4	3941.8	6052.7	8082.6	8674.3	8549.3	6853.3	5065.2	2933.4	600.7
62.5°	246.9	927.5	3869.9	6017.7	7577.9	8017.6	7946.7	6339.5	4845.4	2709.5	473.7
65°	191.9	709.6	3606.0	5367.1	6448.5	6744.3	6722.3	5368.1	4077.8	2335.7	341.8
67.5°	151.9	517.7	3049.3	4346.6	5188.2	5608.9	5592.9	4357.6	3095.3	1785.0	245.9
70°	123.9	368.8	2090.9	3277.2	4149.7	4679.4	4656.5	3507.1	2293.7	1132.4	178.9
72.5°	104.9	235.9	1268.3	2470.6	3463.1	3765.9	3699.0	2829.5	1668.1	616.7	141.9
75°	89.0	144.9	628.7	1540.2	2062.9	2060.9	1993.9	1498.2	895.5	301.8	112.9
77.5°	72.0	101.9	246.9	422.8	650.6	805.6	792.6	530.7	267.9	88.0	70.0
80°	47.0	48.0	66.0	115.9	178.9	197.9	224.9	161.9	78.0	42.0	29.0
82.5°	21.0	23.0	30.0	38.0	38.0	35.0	31.0	23.0	17.0	14.0	7.0
85°	5.0	7.0	5.0	6.0	5.0	4.0	4.0	2.0	0.0	0.0	0.0
87.5°	1.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	8.0	8.0	8.0	7.0	7.0	7.0	6.0	6.0	6.0	5.0	5.0
5°	10.0	9.0	8.0	8.0	7.0	7.0	6.0	5.0	5.0	5.0	4.0
7.5°	11.0	10.0	9.0	8.0	7.0	6.0	6.0	5.0	4.0	4.0	4.0
10°	13.0	12.0	10.0	8.0	7.0	6.0	5.0	5.0	4.0	3.0	3.0
12.5°	15.0	13.0	11.0	9.0	7.0	6.0	5.0	5.0	4.0	3.0	2.0
15°	17.0	15.0	12.0	9.0	7.0	6.0	5.0	5.0	3.0	2.0	1.0
17.5°	19.0	16.0	12.0	10.0	7.0	6.0	5.0	4.0	2.0	1.0	0.0
20°	20.0	17.0	13.0	10.0	7.0	6.0	5.0	3.0	1.0	0.0	0.0
22.5°	22.0	19.0	14.0	10.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0
25°	26.0	20.0	14.0	10.0	7.0	5.0	2.0	0.0	0.0	0.0	0.0
27.5°	29.0	22.0	14.0	10.0	7.0	4.0	1.0	0.0	0.0	0.0	0.0
30°	34.0	24.0	15.0	10.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0
32.5°	42.0	26.0	15.0	10.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
35°	51.0	30.0	15.0	10.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
37.5°	52.0	32.0	15.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
40°	54.0	30.0	16.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
42.5°	62.0	28.0	17.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
45°	91.9	29.0	17.0	11.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
47.5°	159.9	30.0	16.0	11.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
50°	204.9	35.0	16.0	12.0	7.0	2.0	0.0	0.0	0.0	0.0	0.0
52.5°	217.9	41.0	16.0	13.0	9.0	1.0	0.0	0.0	0.0	0.0	0.0
55°	211.9	48.0	17.0	14.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	195.9	52.0	18.0	15.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
59°	178.9	55.0	21.0	16.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	164.9	58.0	22.0	17.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	132.9	62.0	24.0	20.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	115.9	65.0	25.0	22.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	105.9	67.0	27.0	23.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	97.9	66.0	29.0	22.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	89.0	63.0	35.0	20.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	80.0	57.0	38.0	18.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	58.0	48.0	35.0	16.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.0	26.0	25.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	6.0	5.0	3.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	5.0	5.0	5.0	5.0	6.0	6.0	8.0	10.0	12.0	13.0	13.0
5°	4.0	4.0	4.0	4.0	4.0	5.0	6.0	8.0	11.0	12.0	12.0
7.5°	3.0	3.0	3.0	3.0	3.0	3.0	5.0	7.0	10.0	11.0	12.0
10°	3.0	2.0	2.0	1.0	1.0	2.0	3.0	6.0	9.0	10.0	11.0
12.5°	2.0	1.0	1.0	0.0	0.0	1.0	2.0	5.0	8.0	9.0	10.0
15°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	7.0	8.0	10.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	8.0	9.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	7.0	8.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.0	6.0	7.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.0	5.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	4.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.0	4.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
90°	0.0	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):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	14.0	14.0	13.0	12.0	12.0	12.0	13.0	14.0	14.0	14.0
5°	13.0	13.0	12.0	12.0	12.0	12.0	13.0	15.0	16.0	16.0
7.5°	13.0	13.0	12.0	12.0	12.0	12.0	13.0	15.0	16.0	17.0
10°	12.0	12.0	12.0	12.0	11.0	12.0	13.0	15.0	18.0	18.0
12.5°	12.0	12.0	12.0	12.0	11.0	12.0	14.0	16.0	19.0	20.0
15°	12.0	12.0	12.0	11.0	11.0	12.0	14.0	17.0	20.0	22.0
17.5°	11.0	12.0	12.0	11.0	11.0	12.0	14.0	17.0	22.0	25.0
20°	10.0	11.0	12.0	11.0	11.0	11.0	14.0	17.0	23.0	27.0
22.5°	9.0	10.0	11.0	11.0	10.0	11.0	14.0	18.0	25.0	30.0
25°	8.0	9.0	9.0	10.0	10.0	11.0	14.0	18.0	26.0	34.0
27.5°	6.0	7.0	8.0	9.0	9.0	11.0	14.0	19.0	28.0	42.0
30°	5.0	6.0	7.0	8.0	9.0	11.0	14.0	19.0	30.0	53.0
32.5°	5.0	6.0	7.0	8.0	9.0	10.0	14.0	20.0	33.0	66.0
35°	4.0	5.0	6.0	8.0	8.0	10.0	14.0	20.0	36.0	86.0
37.5°	4.0	5.0	6.0	8.0	8.0	10.0	14.0	20.0	44.0	95.9
40°	3.0	4.0	5.0	8.0	8.0	10.0	15.0	21.0	45.0	96.9
42.5°	3.0	4.0	5.0	7.0	8.0	10.0	15.0	21.0	42.0	99.9
45°	3.0	4.0	5.0	8.0	9.0	11.0	15.0	22.0	41.0	113.9
47.5°	3.0	4.0	5.0	8.0	10.0	11.0	15.0	22.0	42.0	162.9
50°	3.0	4.0	5.0	8.0	11.0	11.0	15.0	22.0	46.0	261.9
52.5°	2.0	3.0	4.0	7.0	9.0	12.0	16.0	21.0	49.0	349.8
55°	2.0	2.0	3.0	6.0	8.0	13.0	17.0	21.0	57.0	371.8
57.5°	2.0	2.0	3.0	5.0	7.0	14.0	18.0	21.0	66.0	360.8
59°	2.0	2.0	2.0	5.0	6.0	14.0	18.0	22.0	67.0	341.8
60°	2.0	2.0	2.0	4.0	6.0	14.0	19.0	23.0	68.0	319.8
62.5°	1.0	1.0	1.0	4.0	5.0	14.0	21.0	28.0	70.0	246.9
65°	2.0	2.0	1.0	3.0	5.0	12.0	24.0	30.0	71.0	191.9
67.5°	2.0	2.0	2.0	4.0	5.0	12.0	25.0	31.0	71.0	151.9
70°	2.0	2.0	2.0	4.0	6.0	12.0	25.0	32.0	70.0	123.9
72.5°	2.0	2.0	2.0	4.0	6.0	11.0	23.0	33.0	67.0	104.9
75°	2.0	2.0	2.0	3.0	5.0	10.0	22.0	36.0	61.0	89.0
77.5°	2.0	2.0	2.0	2.0	4.0	8.0	20.0	40.0	54.0	72.0
80°	3.0	2.0	2.0	2.0	3.0	7.0	19.0	39.0	45.0	47.0
82.5°	3.0	2.0	2.0	1.0	2.0	5.0	15.0	30.0	23.0	21.0
85°	2.0	2.0	2.0	1.0	1.0	3.0	7.0	9.0	7.0	5.0
87.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

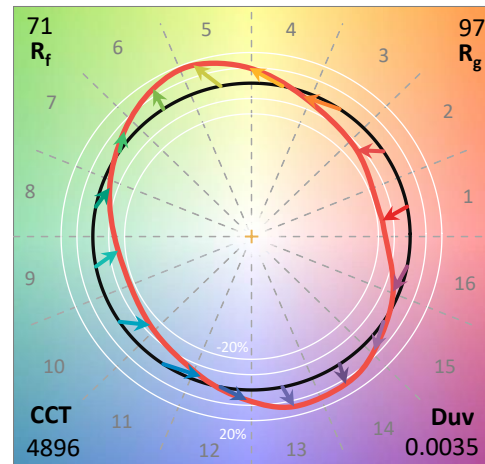
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

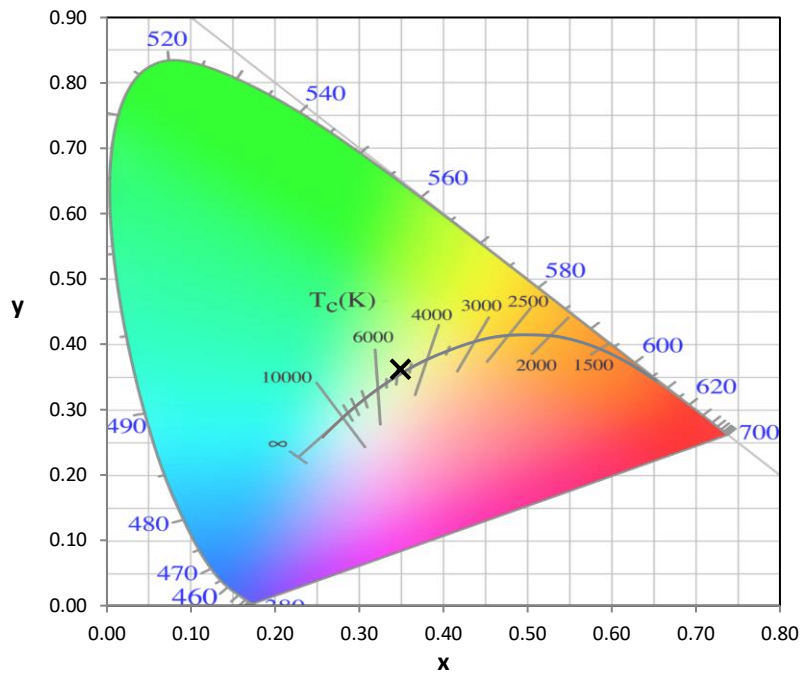
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

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



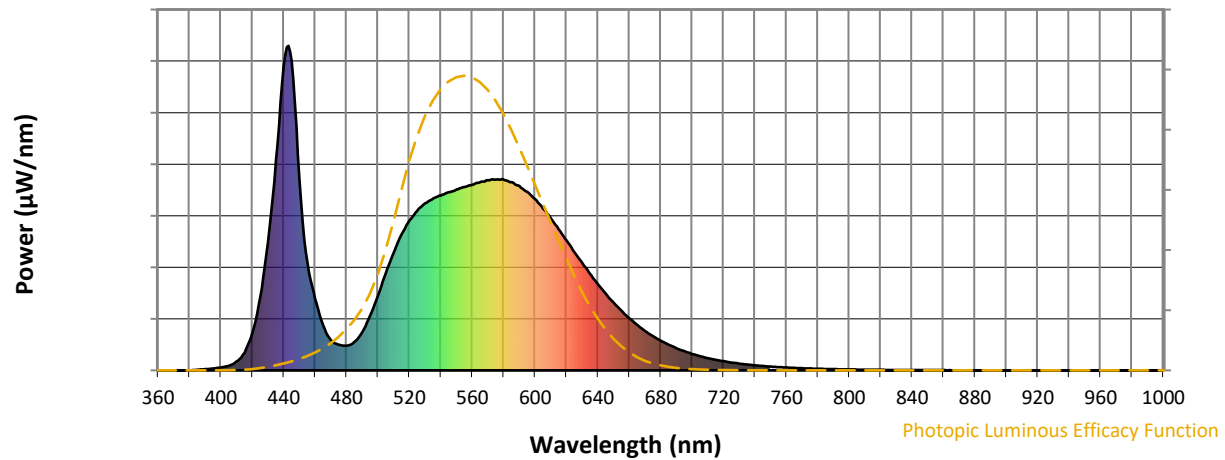
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



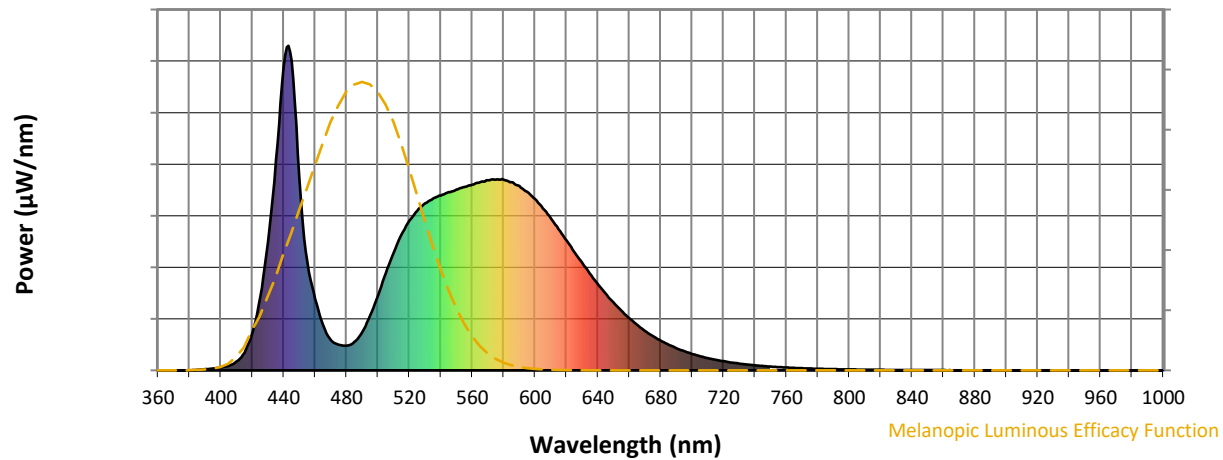
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

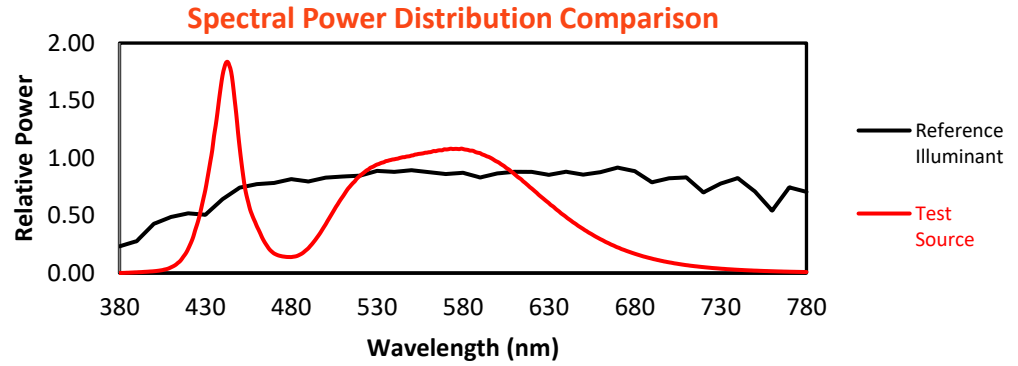
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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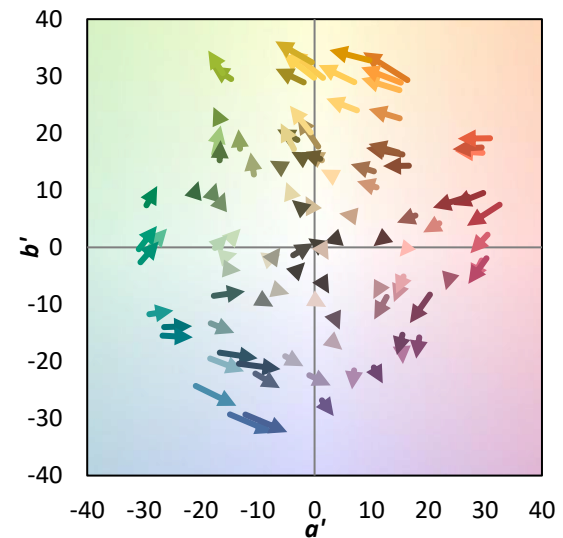
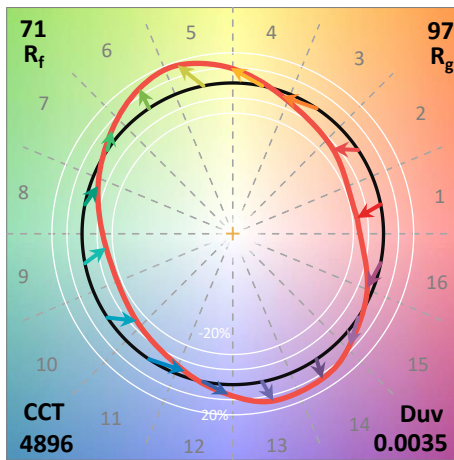
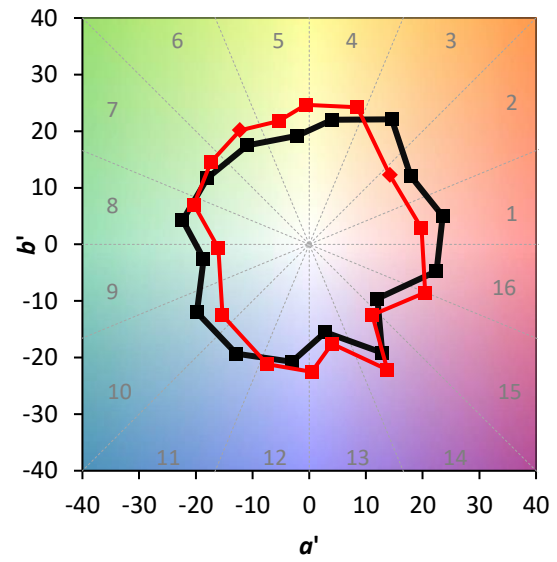
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$



Color Vector Graphics

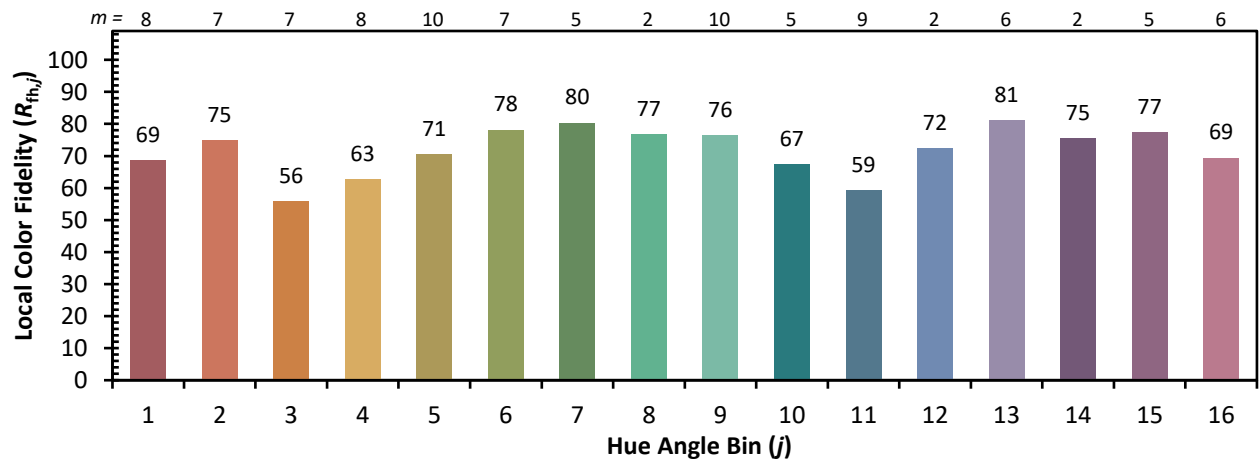
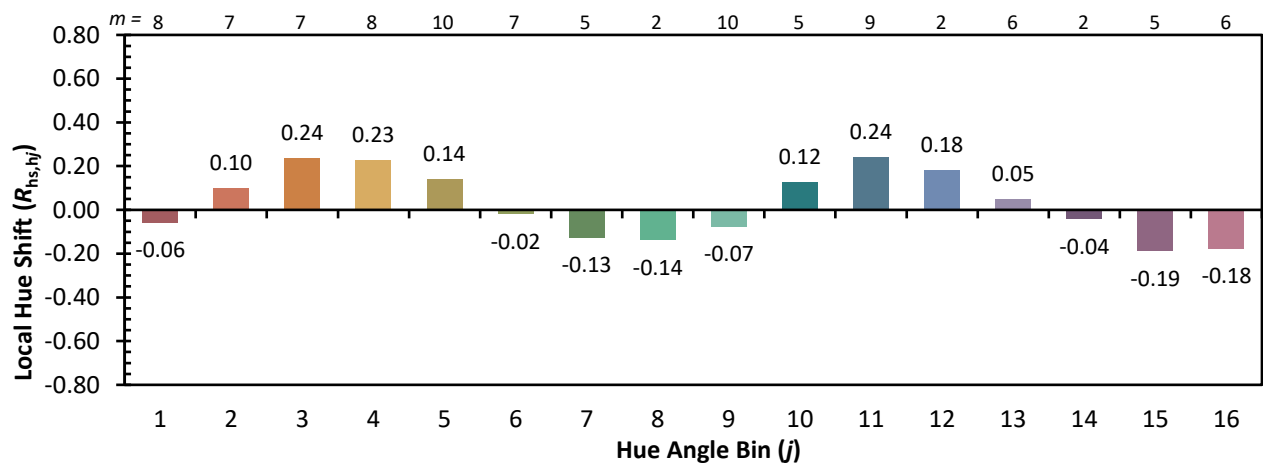
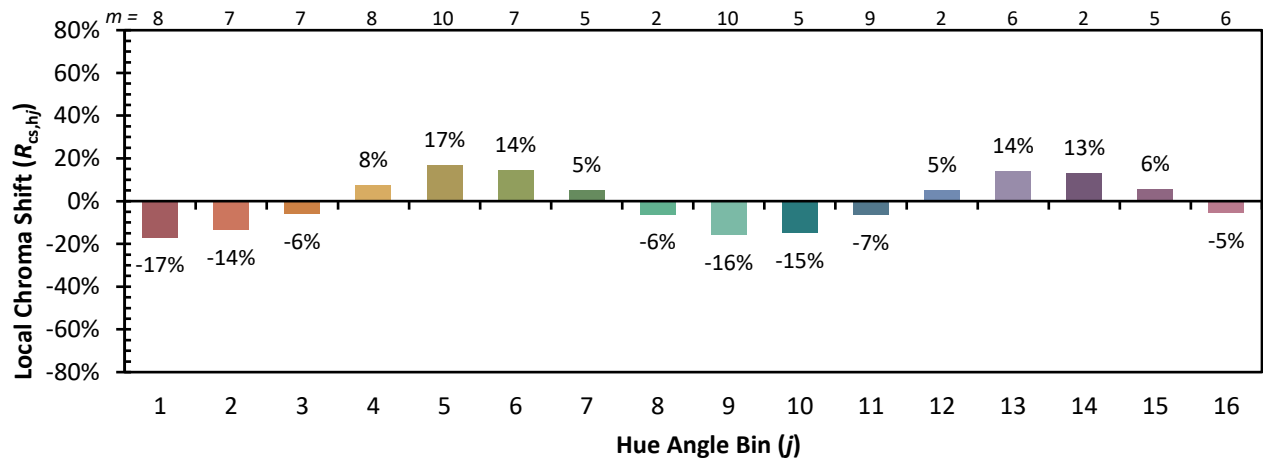


Individual Sample Fidelity Index ($R_{f,i}$)

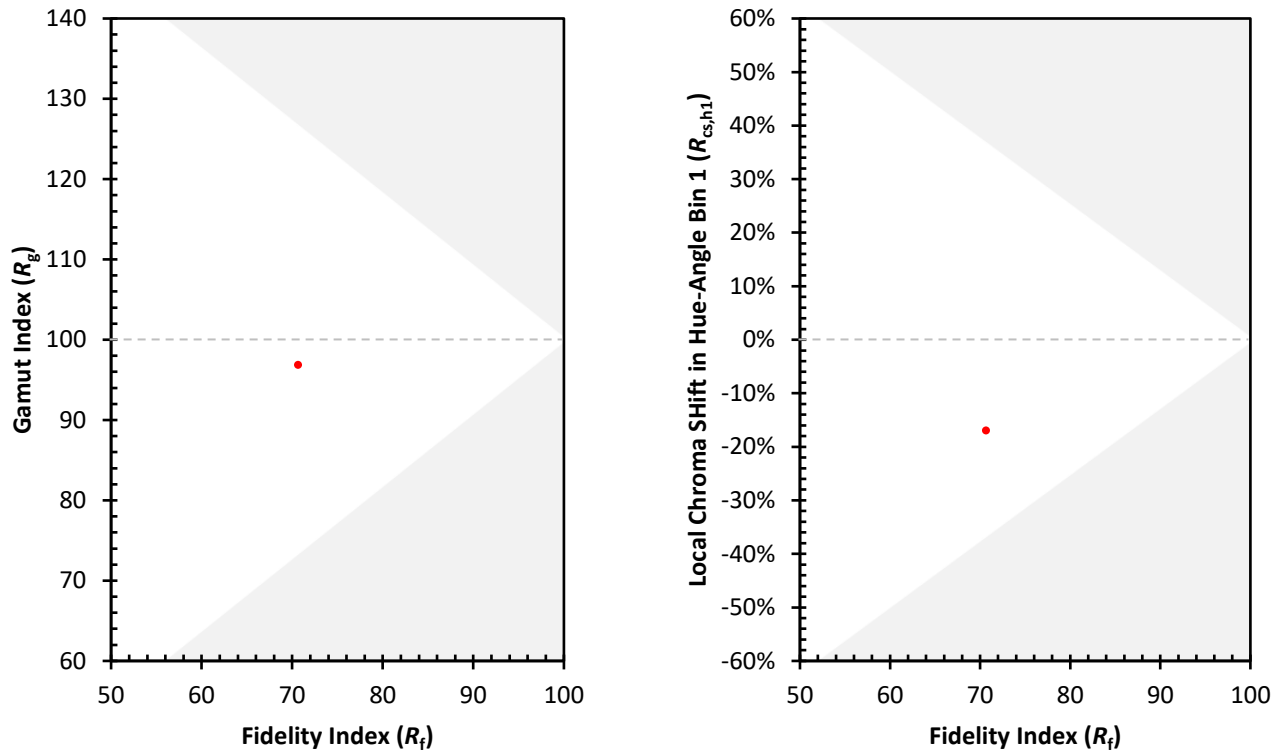
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)