

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: P1068005

Luminaire Tested: **NAV-SA5A-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068005
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5A-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15318.2 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 137.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



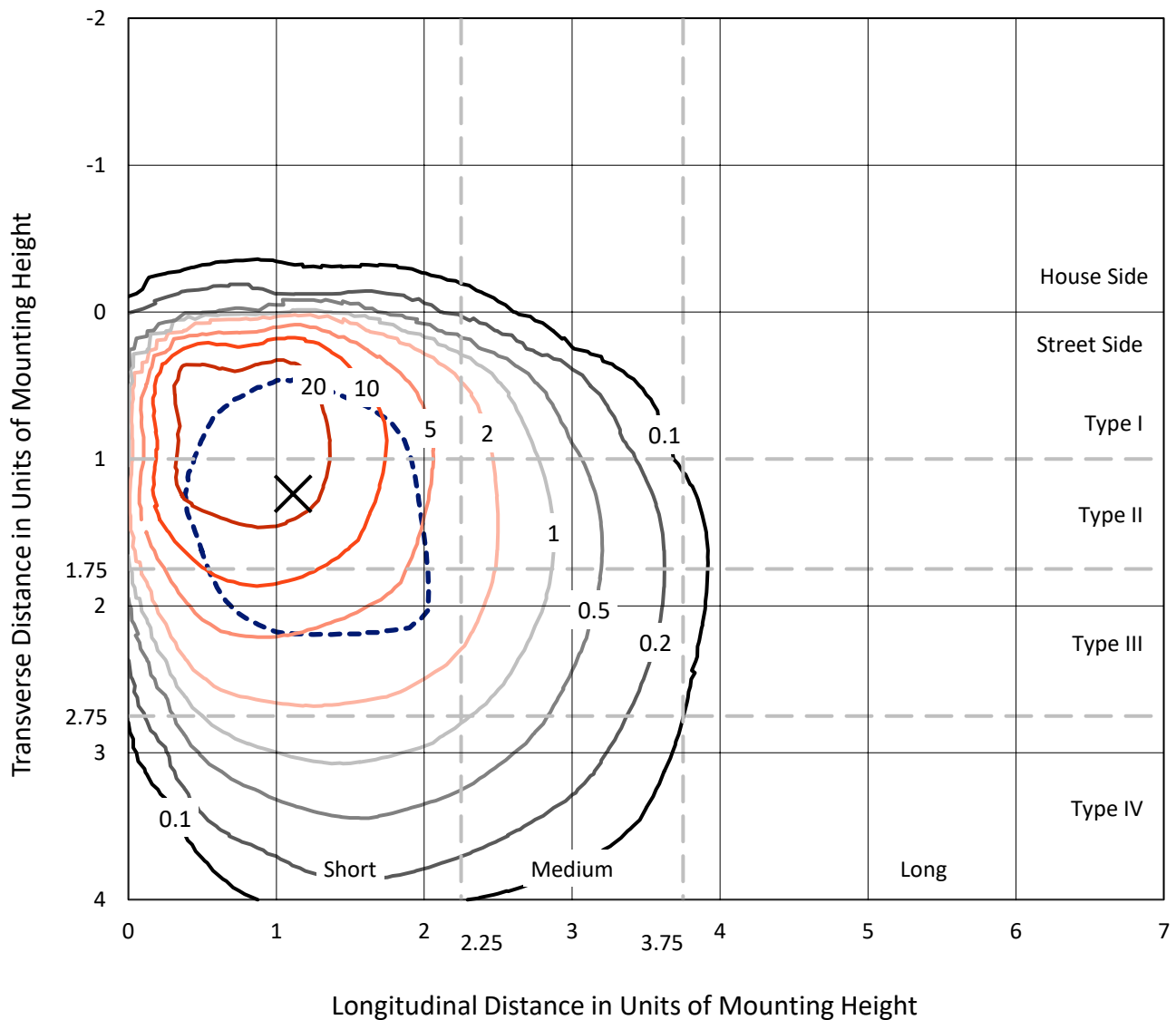
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CATALOG NUMBER: NAV-SA5A-750-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

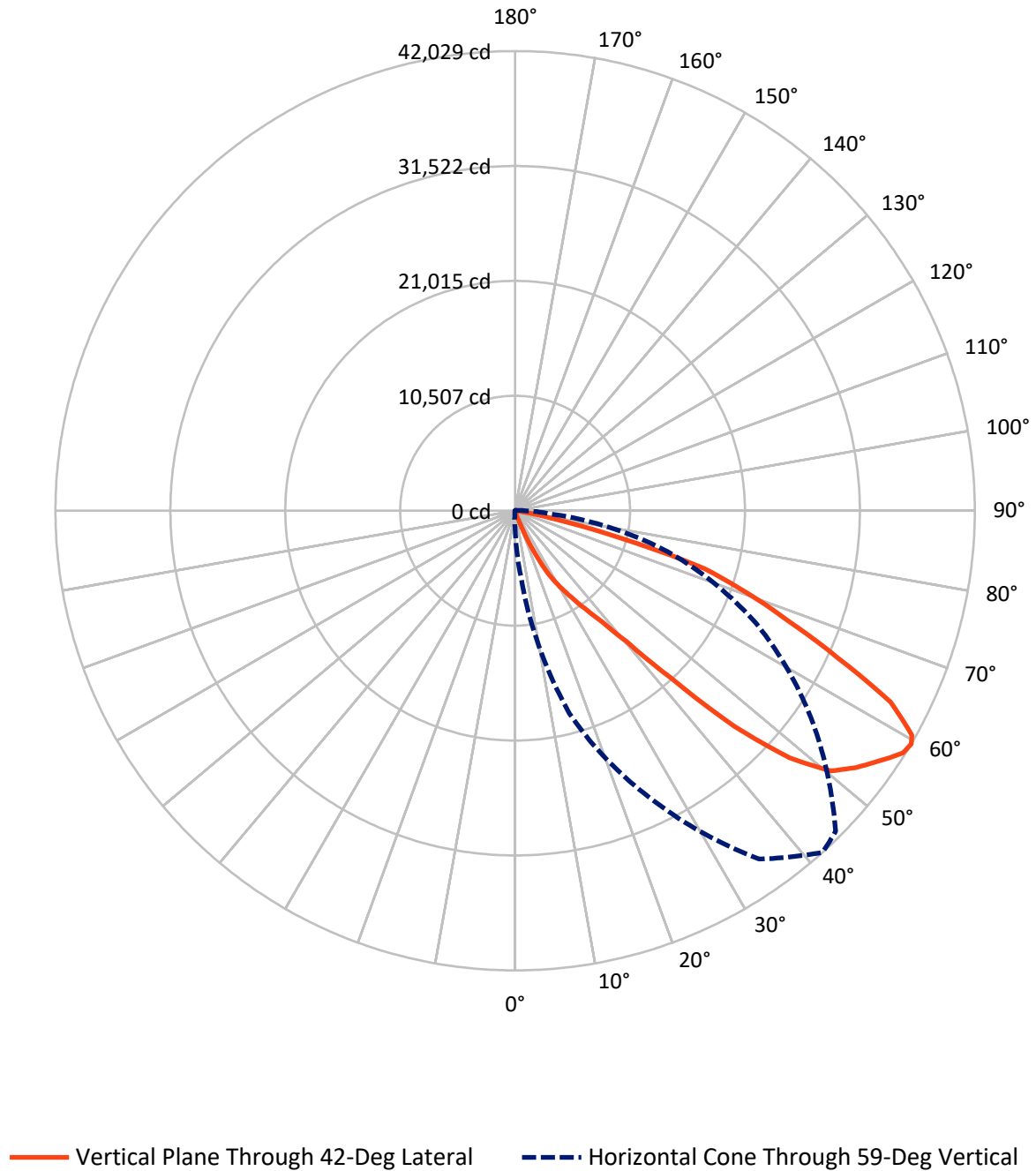


Based on 15 foot mounting height. Maximum calculated value = 45.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: NAV-SA5A-750-U-LBC

Luminous Intensity Polar Plot



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CATALOG NUMBER: NAV-SA5A-750-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	73.8	0.0	73.8
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15244.4	0.0	15244.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	15318.2	0.0	15318.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.0
10°-20°	22.3	0.1
20°-30°	285.7	1.9
30°-40°	963.3	6.3
40°-50°	2909.6	19.0
50°-60°	5136.2	33.5
60°-70°	4522.5	29.5
70°-80°	1439.5	9.4
80°-90°	34.4	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°	15318.2	100.0
0°-180°	15318.2	100.0



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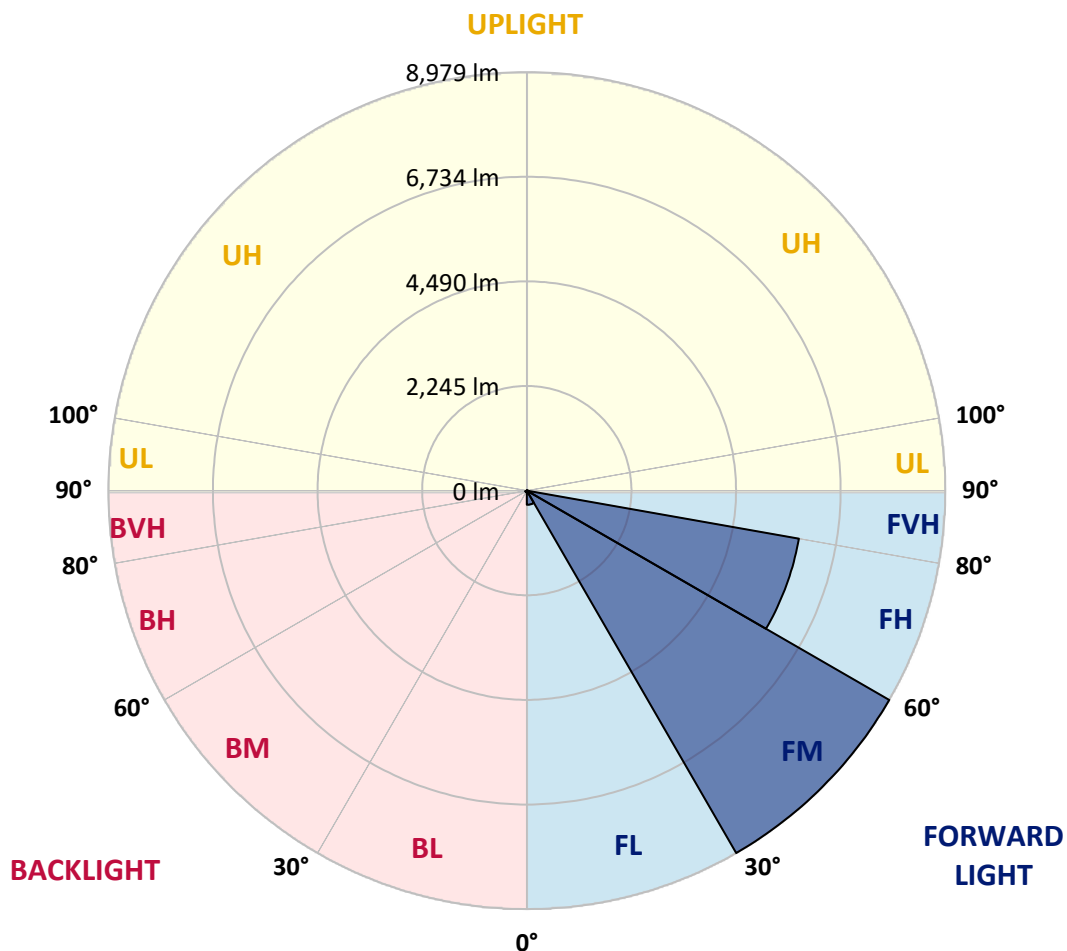
CATALOG NUMBER: NAV-SA5A-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.3	2.0			
FM	(30°-60°)	8979.0	58.6			
FH	(60°-80°)	5928.3	38.7			G3/7500
FVH	(80°-90°)	32.8	0.2			G1/100
BL	(0°-30°)	8.2	0.1	B0/110		
BM	(30°-60°)	30.1	0.2	B0/220		
BH	(60°-80°)	33.8	0.2	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	42°	45°	55°	65°	75°	85°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	67.2	67.2	62.4	57.6	52.8	48.0	48.0	48.0	43.2	43.2	38.4
5°	76.8	76.8	72.0	67.2	67.2	62.4	62.4	57.6	52.8	52.8	48.0
7.5°	81.6	81.6	81.6	81.6	76.8	76.8	76.8	72.0	67.2	62.4	57.6
10°	86.4	91.3	96.1	96.1	96.1	96.1	96.1	91.3	81.6	76.8	67.2
12.5°	96.1	100.9	110.5	120.1	120.1	124.9	120.1	115.3	105.7	91.3	76.8
15°	105.7	115.3	129.7	148.9	168.1	172.9	172.9	158.5	139.3	110.5	91.3
17.5°	120.1	134.5	172.9	235.3	302.6	355.4	355.4	317.0	220.9	144.1	105.7
20°	129.7	158.5	278.6	566.7	864.5	1085.4	1042.2	922.1	494.7	225.7	115.3
22.5°	144.1	201.7	590.7	1488.9	2305.3	2708.8	2612.7	1983.5	1109.4	403.4	139.3
25°	163.3	293.0	1171.9	2790.4	4284.1	4721.1	4658.7	3702.9	2022.0	677.2	177.7
27.5°	201.7	432.2	1877.9	4231.2	6320.4	6695.1	6671.1	5422.3	3232.3	1090.2	230.5
30°	254.5	629.2	2785.6	5748.9	7670.0	8049.4	7929.4	6680.7	4360.9	1666.6	297.8
32.5°	317.0	878.9	3606.9	6868.0	8913.9	9413.4	9269.4	7775.7	5268.6	2156.4	441.9
35°	413.0	1123.8	4418.6	7857.3	10350.0	10983.9	10743.8	8904.3	6051.5	2708.8	533.1
37.5°	461.1	1267.9	5163.0	8933.2	11963.7	12828.2	12645.7	10330.8	6848.8	3414.8	653.2
40°	465.9	1440.8	5936.2	10335.6	14245.0	15786.7	15460.1	12780.2	8332.8	4322.5	840.5
42.5°	480.3	1700.2	6940.0	12727.3	18726.0	20940.1	20570.3	17285.2	11699.6	6142.7	1191.1
45°	547.5	2190.1	8986.0	17198.7	24878.4	28125.0	27697.6	23562.4	16401.5	9567.1	2031.6
47.5°	782.9	3294.7	12573.7	22025.5	31170.0	33758.7	33653.0	28509.3	20661.5	13077.9	3443.6
50°	1258.3	5057.3	16656.0	26083.9	35175.5	37399.2	37135.0	30574.4	23091.7	15474.5	4413.7
52.5°	1681.0	6743.1	19220.7	27577.5	36371.4	39022.5	38700.7	31328.5	23730.5	16180.5	4682.7
55°	1786.6	7353.0	19984.3	28038.6	37163.8	40396.1	39930.2	31832.8	23812.1	15676.2	4236.0
57.5°	1733.8	6776.7	19489.6	28490.0	38268.5	41808.1	41188.6	32817.3	24085.9	14821.4	3525.2
59°	1642.5	6065.9	19182.3	28850.3	38878.4	42029.1	41447.9	33033.5	24268.4	14432.3	3093.0
60°	1536.9	5585.6	18942.1	29085.6	38840.0	41683.3	41082.9	32932.6	24340.4	14096.1	2886.5
62.5°	1186.3	4457.0	18596.3	28917.5	36414.6	38527.8	38186.8	30464.0	23283.8	13020.3	2276.5
65°	922.1	3410.0	17328.4	25790.9	30987.5	32409.1	32303.4	25795.7	19595.3	11224.1	1642.5
67.5°	730.0	2487.8	14653.3	20887.3	24931.2	26953.2	26876.3	20940.1	14874.2	8577.8	1181.5
70°	595.5	1772.2	10047.4	15748.3	19941.1	22486.6	22376.1	16852.9	11022.4	5441.5	859.7
72.5°	504.3	1133.5	6094.7	11872.5	16641.6	18096.8	17775.1	13596.6	8015.8	2963.3	682.0
75°	427.4	696.4	3020.9	7401.1	9912.9	9903.3	9581.5	7199.4	4303.3	1450.4	542.7
77.5°	345.8	489.9	1186.3	2031.6	3126.6	3871.0	3808.6	2550.3	1287.1	422.6	336.2
80°	225.7	230.5	317.0	557.1	859.7	950.9	1080.6	778.0	374.6	201.7	139.3
82.5°	100.9	110.5	144.1	182.5	182.5	168.1	148.9	110.5	81.6	67.2	33.6
85°	24.0	33.6	24.0	28.8	24.0	19.2	19.2	9.6	0.0	0.0	0.0
87.5°	4.8	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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CATALOG NUMBER: NAV-SA5A-750-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	38.4	38.4	38.4	33.6	33.6	33.6	28.8	28.8	28.8	24.0	24.0
5°	48.0	43.2	38.4	38.4	33.6	33.6	28.8	24.0	24.0	24.0	19.2
7.5°	52.8	48.0	43.2	38.4	33.6	28.8	28.8	24.0	19.2	19.2	19.2
10°	62.4	57.6	48.0	38.4	33.6	28.8	24.0	24.0	19.2	14.4	14.4
12.5°	72.0	62.4	52.8	43.2	33.6	28.8	24.0	24.0	19.2	14.4	9.6
15°	81.6	72.0	57.6	43.2	33.6	28.8	24.0	24.0	14.4	9.6	4.8
17.5°	91.3	76.8	57.6	48.0	33.6	28.8	24.0	19.2	9.6	4.8	0.0
20°	96.1	81.6	62.4	48.0	33.6	28.8	24.0	14.4	4.8	0.0	0.0
22.5°	105.7	91.3	67.2	48.0	33.6	24.0	14.4	4.8	0.0	0.0	0.0
25°	124.9	96.1	67.2	48.0	33.6	24.0	9.6	0.0	0.0	0.0	0.0
27.5°	139.3	105.7	67.2	48.0	33.6	19.2	4.8	0.0	0.0	0.0	0.0
30°	163.3	115.3	72.0	48.0	33.6	14.4	4.8	0.0	0.0	0.0	0.0
32.5°	201.7	124.9	72.0	48.0	28.8	14.4	0.0	0.0	0.0	0.0	0.0
35°	244.9	144.1	72.0	48.0	28.8	14.4	0.0	0.0	0.0	0.0	0.0
37.5°	249.7	153.7	72.0	48.0	28.8	9.6	0.0	0.0	0.0	0.0	0.0
40°	259.3	144.1	76.8	48.0	28.8	9.6	0.0	0.0	0.0	0.0	0.0
42.5°	297.8	134.5	81.6	48.0	28.8	9.6	0.0	0.0	0.0	0.0	0.0
45°	441.9	139.3	81.6	52.8	28.8	14.4	0.0	0.0	0.0	0.0	0.0
47.5°	768.4	144.1	76.8	52.8	28.8	14.4	0.0	0.0	0.0	0.0	0.0
50°	984.6	168.1	76.8	57.6	33.6	9.6	0.0	0.0	0.0	0.0	0.0
52.5°	1047.0	196.9	76.8	62.4	43.2	4.8	0.0	0.0	0.0	0.0	0.0
55°	1018.2	230.5	81.6	67.2	52.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	941.3	249.7	86.4	72.0	57.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	859.7	264.2	100.9	76.8	57.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	792.5	278.6	105.7	81.6	57.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	638.8	297.8	115.3	96.1	48.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	557.1	312.2	120.1	105.7	43.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	509.1	321.8	129.7	110.5	38.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	470.7	317.0	139.3	105.7	33.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	427.4	302.6	168.1	96.1	28.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	384.2	273.8	182.5	86.4	19.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	278.6	230.5	168.1	76.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	120.1	124.9	120.1	57.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.0	28.8	24.0	14.4	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°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	24.0	24.0	24.0	24.0	28.8	28.8	38.4	48.0	57.6	62.4	62.4
5°	19.2	19.2	19.2	19.2	19.2	24.0	28.8	38.4	52.8	57.6	57.6
7.5°	14.4	14.4	14.4	14.4	14.4	14.4	24.0	33.6	48.0	52.8	57.6
10°	14.4	9.6	9.6	4.8	4.8	9.6	14.4	28.8	43.2	48.0	52.8
12.5°	9.6	4.8	4.8	0.0	0.0	4.8	9.6	24.0	38.4	43.2	48.0
15°	4.8	0.0	0.0	0.0	0.0	0.0	4.8	19.2	33.6	38.4	48.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	28.8	38.4	43.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	24.0	33.6	38.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	19.2	28.8	33.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	19.2	24.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	14.4	19.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	14.4	19.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6	14.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6	14.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6	9.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
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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CATALOG NUMBER: NAV-SA5A-750-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	67.2	67.2	62.4	57.6	57.6	57.6	62.4	67.2	67.2	67.2
5°	62.4	62.4	57.6	57.6	57.6	57.6	62.4	72.0	76.8	76.8
7.5°	62.4	62.4	57.6	57.6	57.6	57.6	62.4	72.0	76.8	81.6
10°	57.6	57.6	57.6	57.6	52.8	57.6	62.4	72.0	86.4	86.4
12.5°	57.6	57.6	57.6	57.6	52.8	57.6	67.2	76.8	91.3	96.1
15°	57.6	57.6	57.6	52.8	52.8	57.6	67.2	81.6	96.1	105.7
17.5°	52.8	57.6	57.6	52.8	52.8	57.6	67.2	81.6	105.7	120.1
20°	48.0	52.8	57.6	52.8	52.8	52.8	67.2	81.6	110.5	129.7
22.5°	43.2	48.0	52.8	52.8	48.0	52.8	67.2	86.4	120.1	144.1
25°	38.4	43.2	43.2	48.0	48.0	52.8	67.2	86.4	124.9	163.3
27.5°	28.8	33.6	38.4	43.2	43.2	52.8	67.2	91.3	134.5	201.7
30°	24.0	28.8	33.6	38.4	43.2	52.8	67.2	91.3	144.1	254.5
32.5°	24.0	28.8	33.6	38.4	43.2	48.0	67.2	96.1	158.5	317.0
35°	19.2	24.0	28.8	38.4	38.4	48.0	67.2	96.1	172.9	413.0
37.5°	19.2	24.0	28.8	38.4	38.4	48.0	67.2	96.1	211.3	461.1
40°	14.4	19.2	24.0	38.4	38.4	48.0	72.0	100.9	216.1	465.9
42.5°	14.4	19.2	24.0	33.6	38.4	48.0	72.0	100.9	201.7	480.3
45°	14.4	19.2	24.0	38.4	43.2	52.8	72.0	105.7	196.9	547.5
47.5°	14.4	19.2	24.0	38.4	48.0	52.8	72.0	105.7	201.7	782.9
50°	14.4	19.2	24.0	38.4	52.8	52.8	72.0	105.7	220.9	1258.3
52.5°	9.6	14.4	19.2	33.6	43.2	57.6	76.8	100.9	235.3	1681.0
55°	9.6	9.6	14.4	28.8	38.4	62.4	81.6	100.9	273.8	1786.6
57.5°	9.6	9.6	14.4	24.0	33.6	67.2	86.4	100.9	317.0	1733.8
59°	9.6	9.6	9.6	24.0	28.8	67.2	86.4	105.7	321.8	1642.5
60°	9.6	9.6	9.6	19.2	28.8	67.2	91.3	110.5	326.6	1536.9
62.5°	4.8	4.8	4.8	19.2	24.0	67.2	100.9	134.5	336.2	1186.3
65°	9.6	9.6	4.8	14.4	24.0	57.6	115.3	144.1	341.0	922.1
67.5°	9.6	9.6	9.6	19.2	24.0	57.6	120.1	148.9	341.0	730.0
70°	9.6	9.6	9.6	19.2	28.8	57.6	120.1	153.7	336.2	595.5
72.5°	9.6	9.6	9.6	19.2	28.8	52.8	110.5	158.5	321.8	504.3
75°	9.6	9.6	9.6	14.4	24.0	48.0	105.7	172.9	293.0	427.4
77.5°	9.6	9.6	9.6	9.6	19.2	38.4	96.1	192.1	259.3	345.8
80°	14.4	9.6	9.6	9.6	14.4	33.6	91.3	187.3	216.1	225.7
82.5°	14.4	9.6	9.6	4.8	9.6	24.0	72.0	144.1	110.5	100.9
85°	9.6	9.6	9.6	4.8	4.8	14.4	33.6	43.2	33.6	24.0
87.5°	9.6	9.6	9.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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

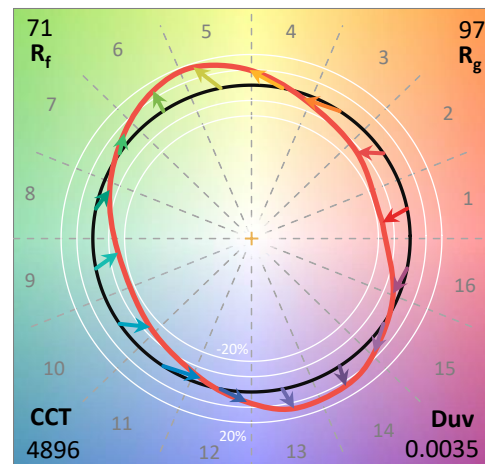
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

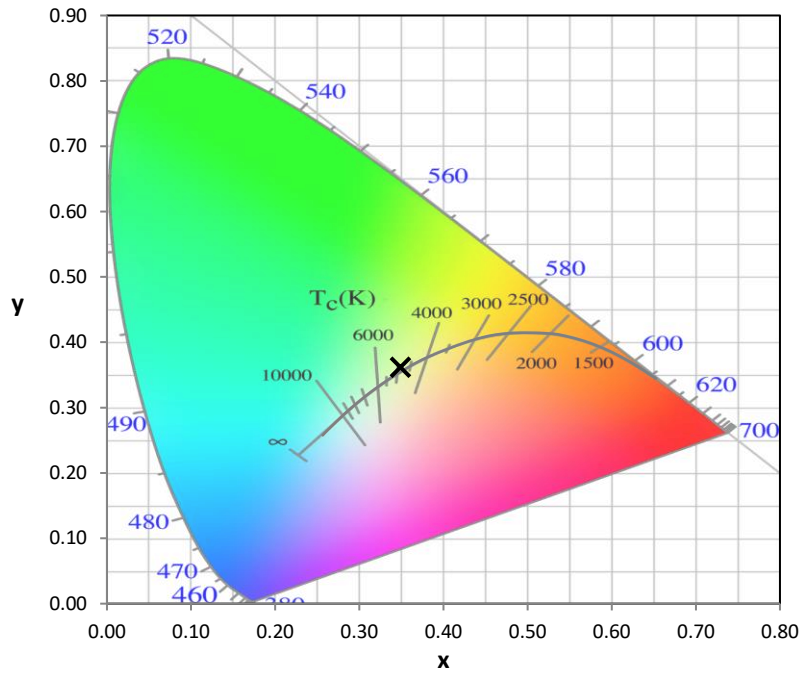
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

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



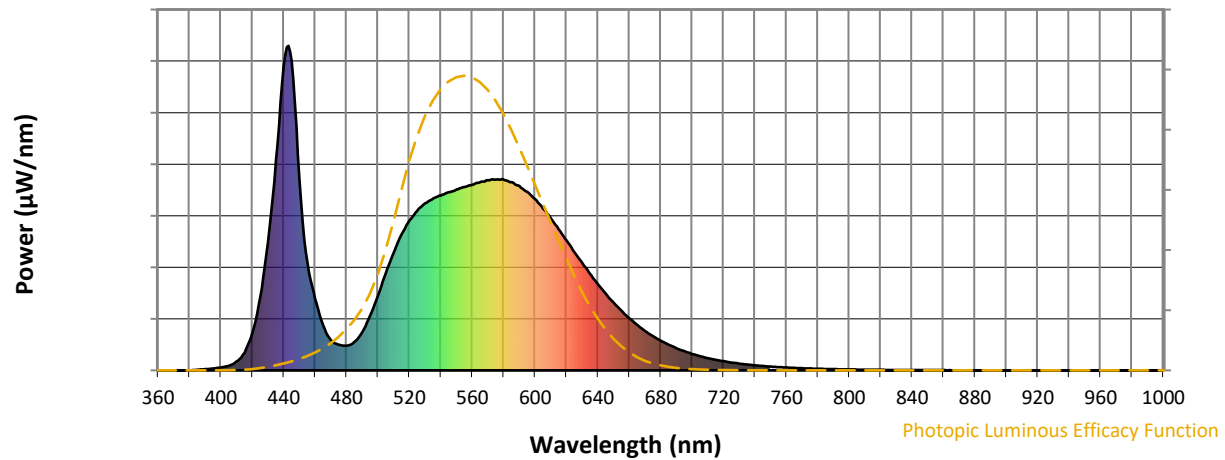
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



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



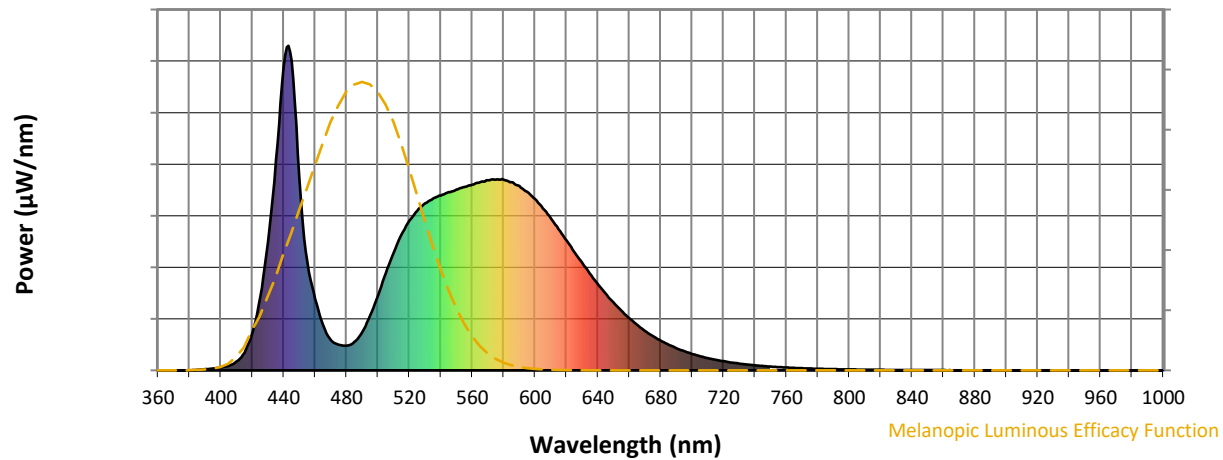
Scotopic Lumens: NR

S/P: 1.7

λ (nm)	Power W ^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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

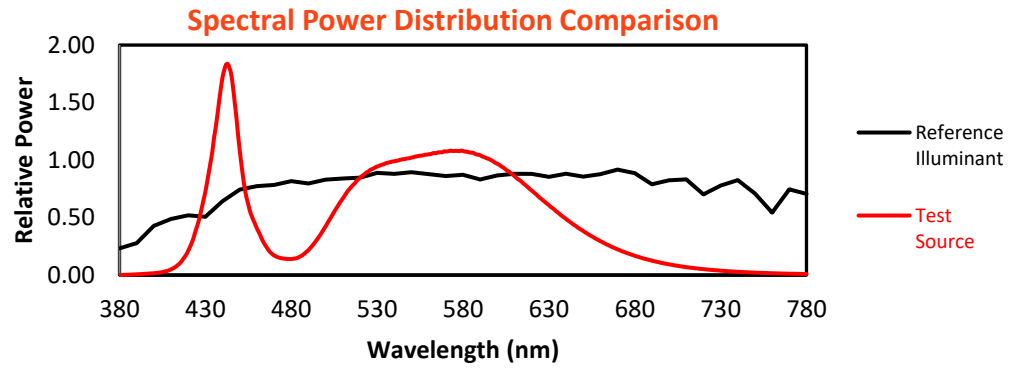
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	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

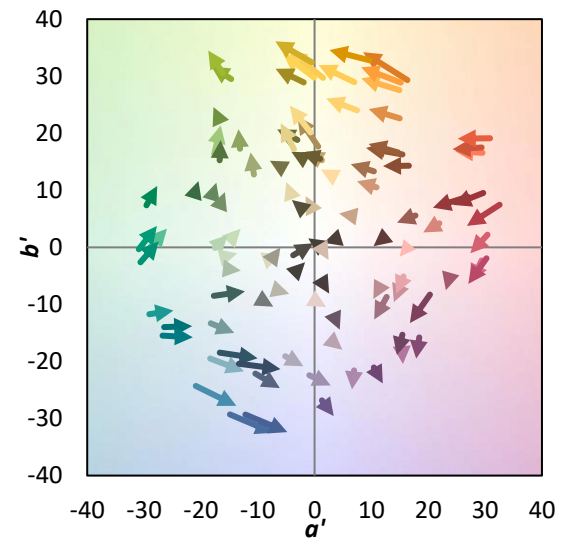
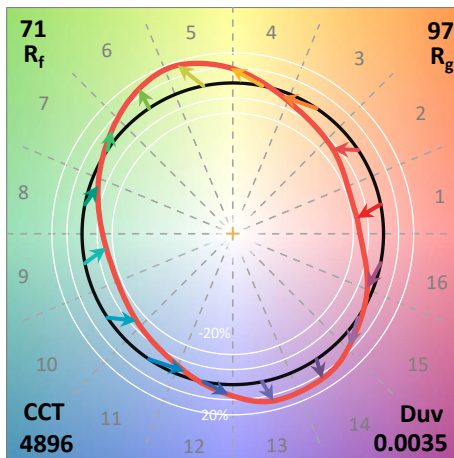
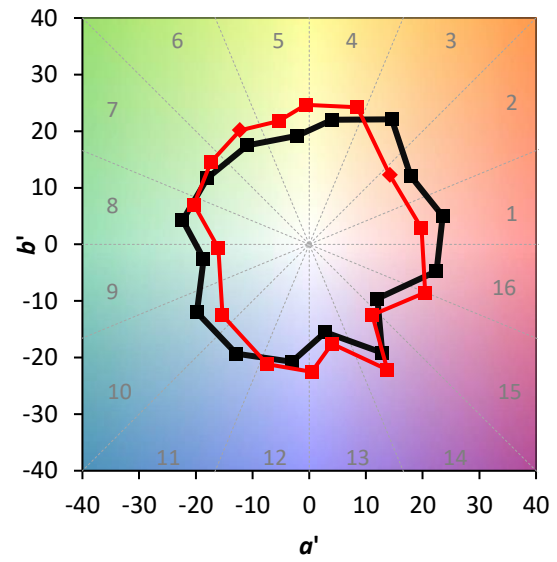
TM-30-18

Summary

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



Color Vector Graphics

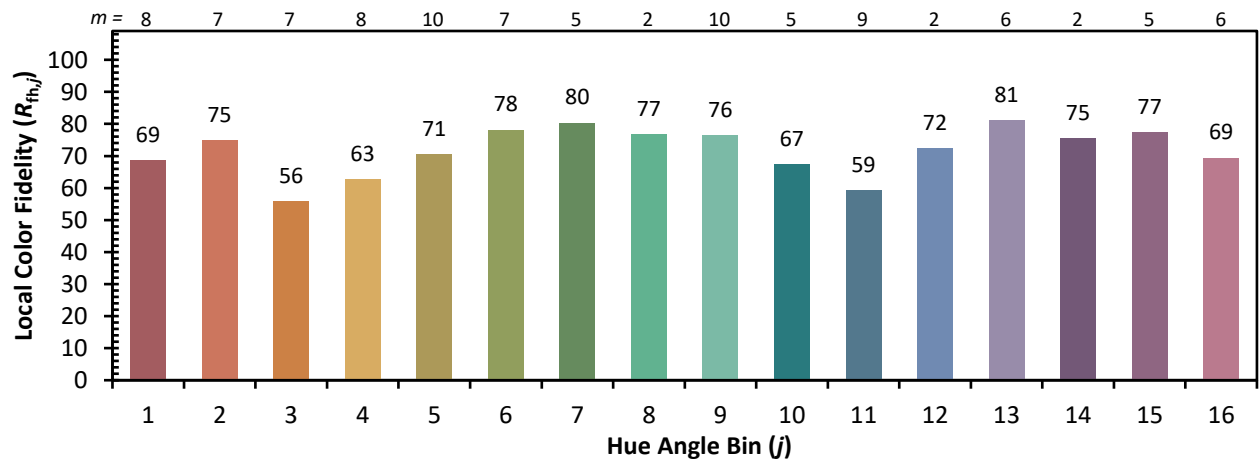
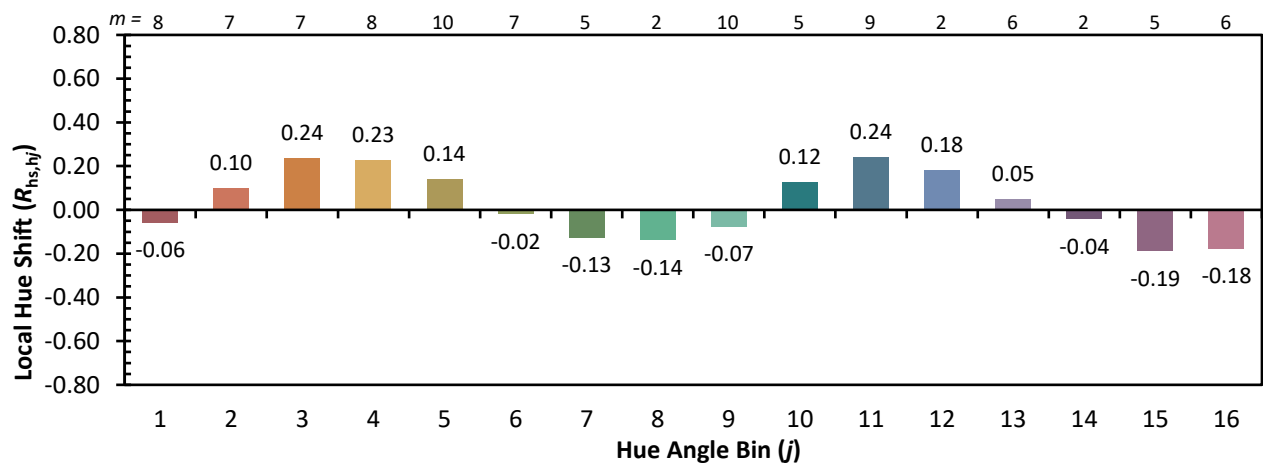
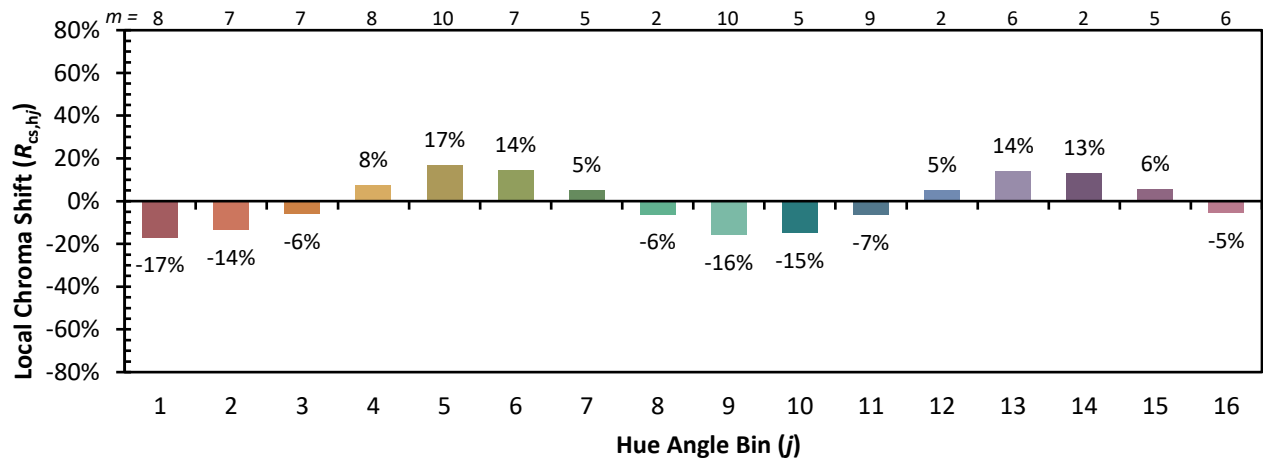


Individual Sample Fidelity Index ($R_{f,i}$)

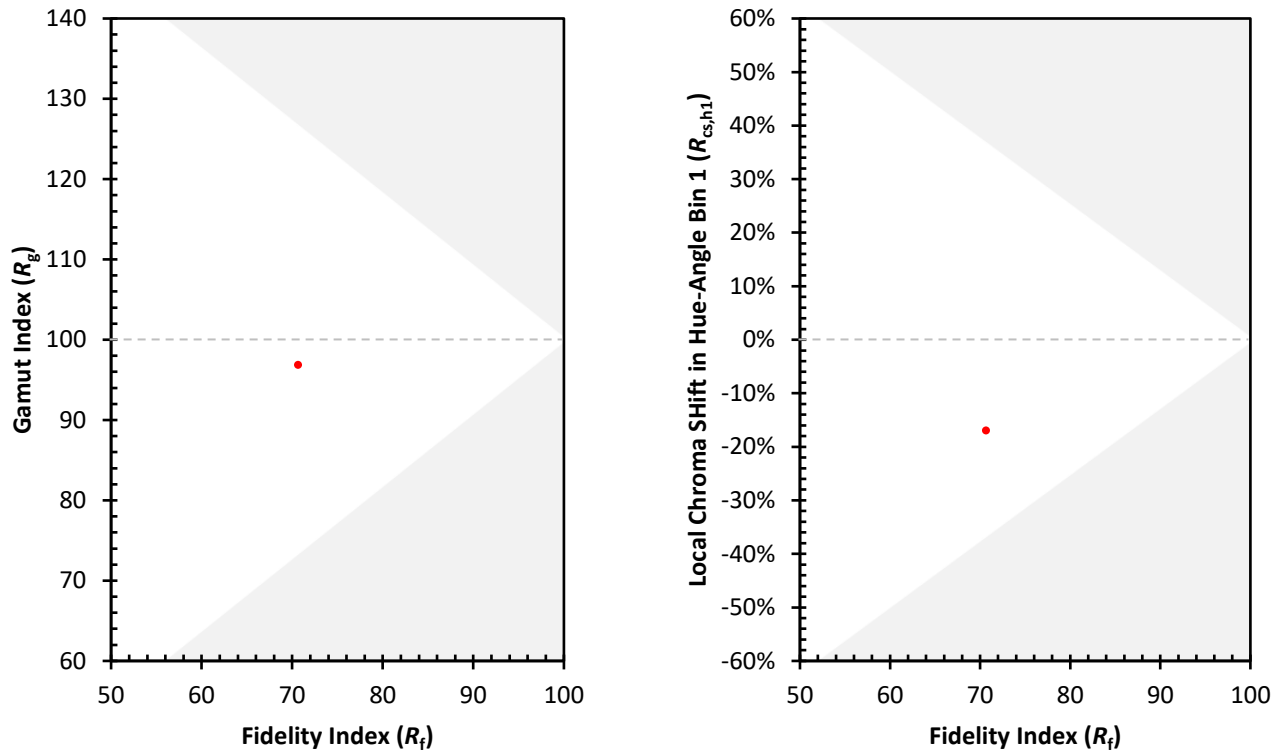
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)