

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: P1067876

Luminaire Tested: **NAV-SA2D-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067876
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2D-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 2xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10600.3 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107
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

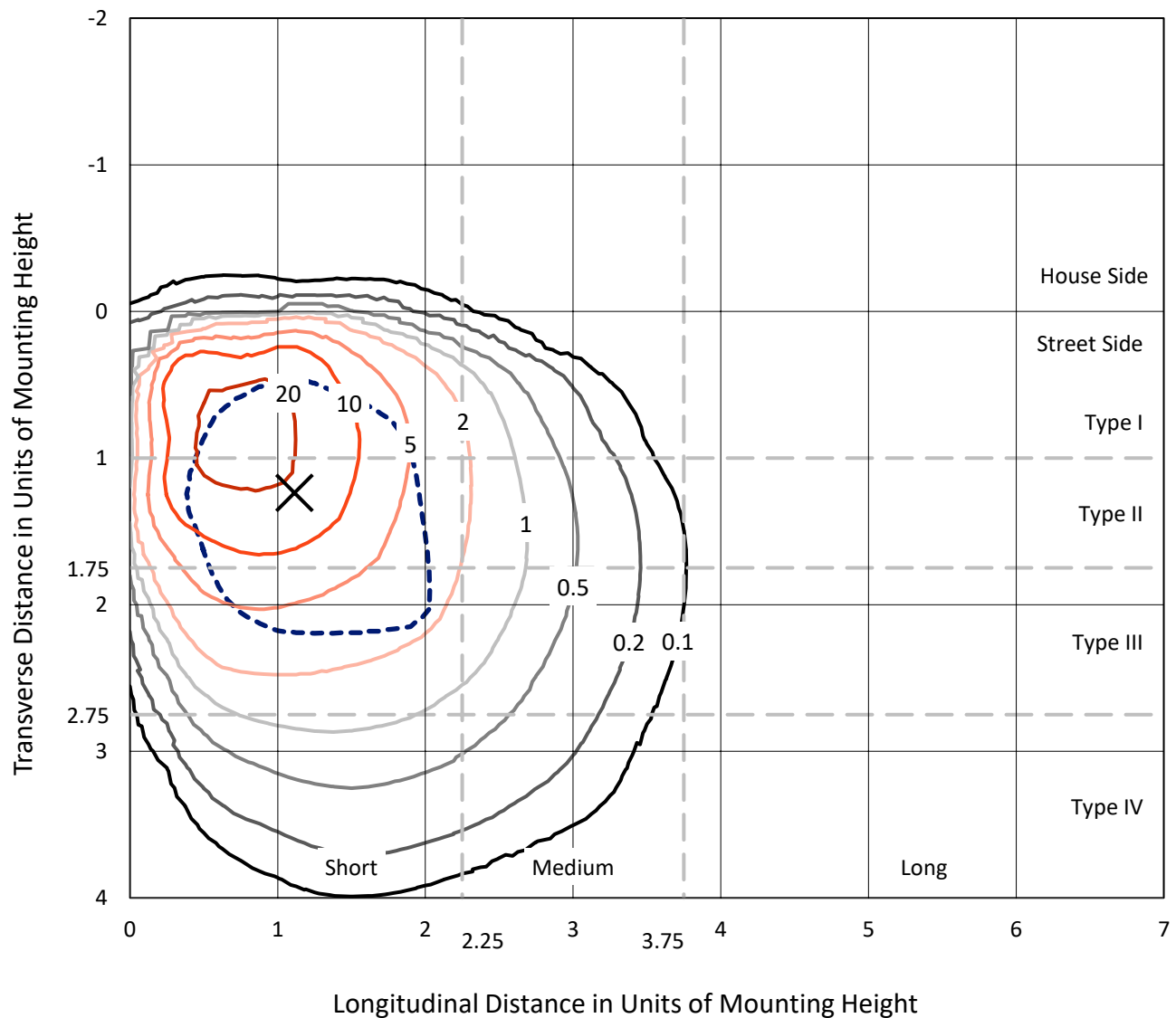


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

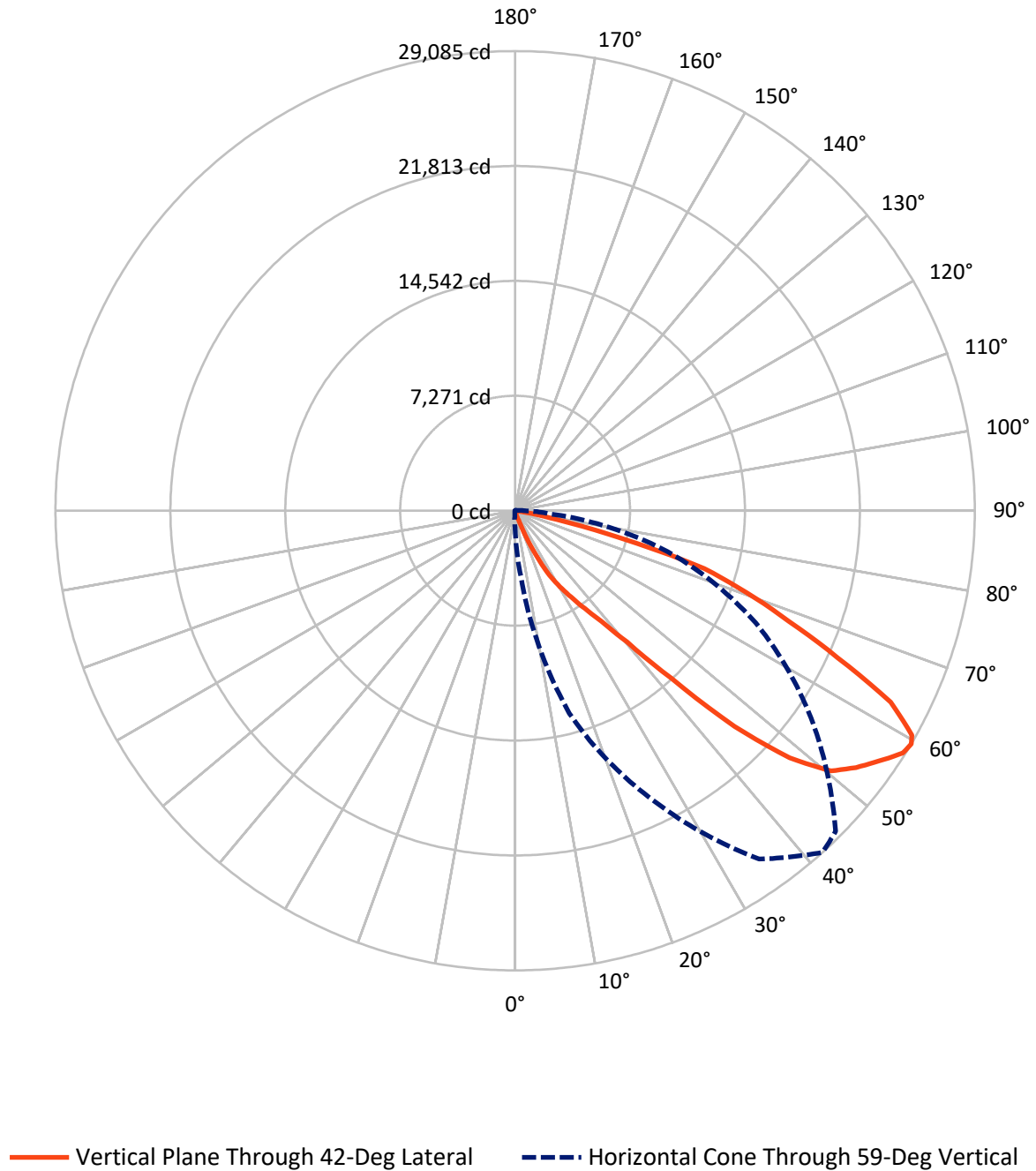


Based on 15 foot mounting height. Maximum calculated value = 31.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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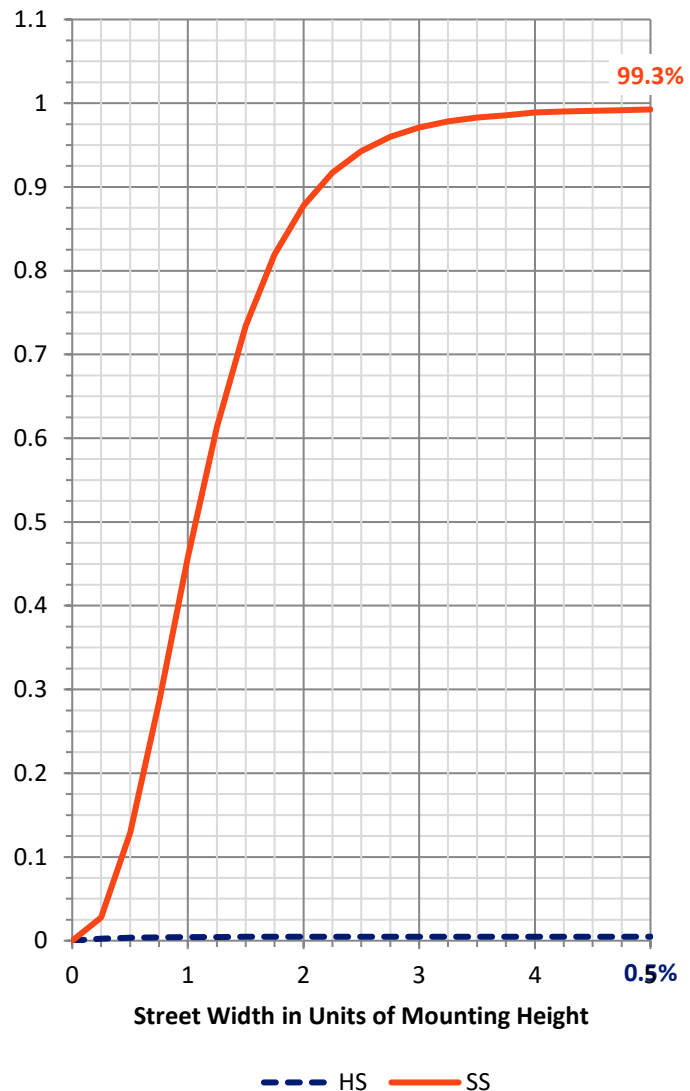
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.1	0.0	51.1
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	10549.2	0.0	10549.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	10600.3	0.0	10600.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.0
10°-20°	15.5	0.1
20°-30°	197.7	1.9
30°-40°	666.6	6.3
40°-50°	2013.5	19.0
50°-60°	3554.3	33.5
60°-70°	3129.6	29.5
70°-80°	996.2	9.4
80°-90°	23.8	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°	10600.3	100.0
0°-180°	10600.3	100.0



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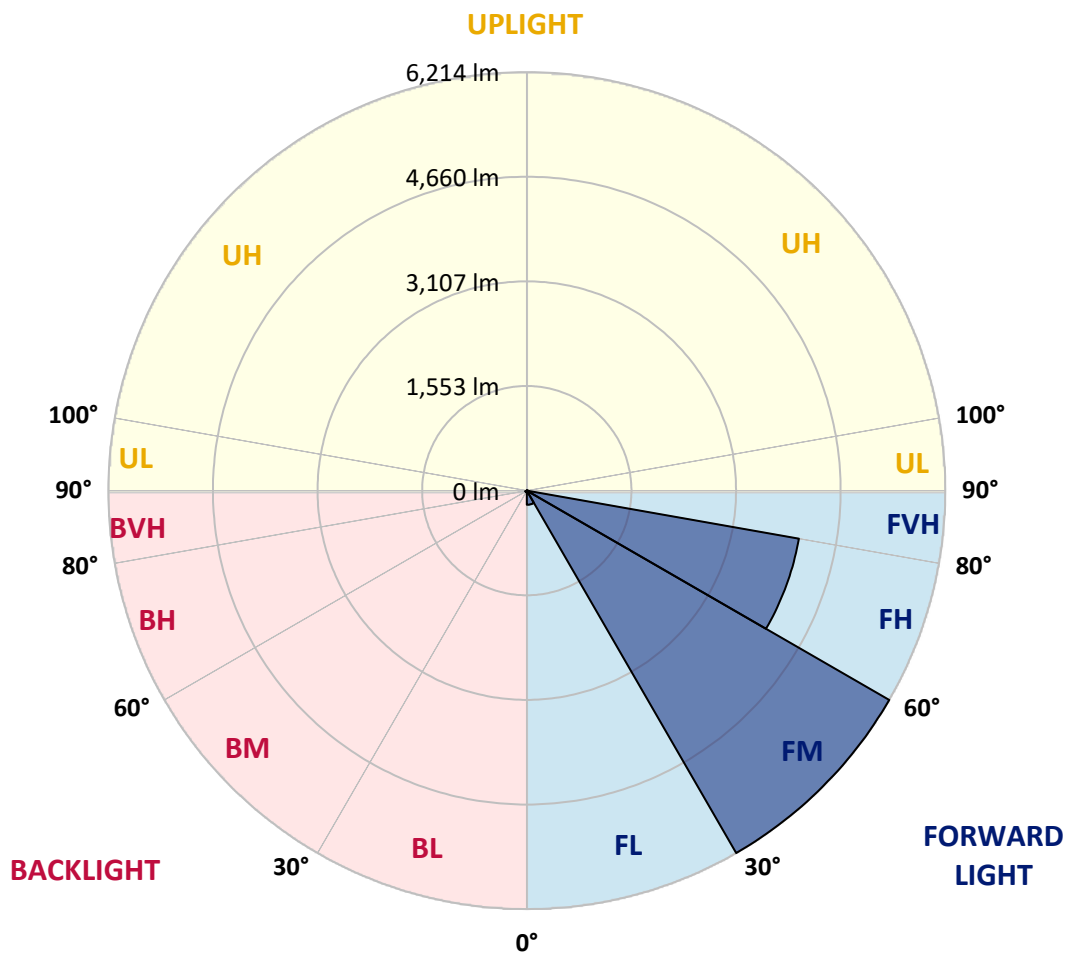
CATALOG NUMBER: NAV-SA2D-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.6	2.0			
FM	(30°-60°)	6213.6	58.6			
FH	(60°-80°)	4102.4	38.7			G2/5000
FVH	(80°-90°)	22.7	0.2			G1/100
BL	(0°-30°)	5.7	0.1	B0/110		
BM	(30°-60°)	20.9	0.2	B0/220		
BH	(60°-80°)	23.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	46.5	46.5	43.2	39.9	36.6	33.2	33.2	33.2	29.9	29.9	26.6
5°	53.2	53.2	49.9	46.5	46.5	43.2	43.2	39.9	36.6	36.6	33.2
7.5°	56.5	56.5	56.5	56.5	53.2	53.2	53.2	49.9	46.5	43.2	39.9
10°	59.8	63.1	66.5	66.5	66.5	66.5	66.5	63.1	56.5	53.2	46.5
12.5°	66.5	69.8	76.4	83.1	83.1	86.4	83.1	79.8	73.1	63.1	53.2
15°	73.1	79.8	89.7	103.0	116.3	119.6	119.6	109.7	96.4	76.4	63.1
17.5°	83.1	93.1	119.6	162.9	209.4	245.9	245.9	219.4	152.9	99.7	73.1
20°	89.7	109.7	192.8	392.2	598.2	751.1	721.2	638.1	342.3	156.2	79.8
22.5°	99.7	139.6	408.8	1030.3	1595.3	1874.5	1808.0	1372.6	767.7	279.2	96.4
25°	113.0	202.7	810.9	1931.0	2964.6	3267.1	3223.9	2562.5	1399.2	468.6	123.0
27.5°	139.6	299.1	1299.5	2928.1	4373.8	4633.0	4616.4	3752.3	2236.8	754.4	159.5
30°	176.1	435.4	1927.7	3978.3	5307.7	5570.3	5487.2	4623.1	3017.8	1153.3	206.1
32.5°	219.4	608.2	2496.0	4752.7	6168.5	6514.2	6414.5	5380.8	3645.9	1492.3	305.8
35°	285.8	777.7	3057.7	5437.3	7162.3	7601.0	7434.8	6161.9	4187.7	1874.5	368.9
37.5°	319.1	877.4	3572.8	6181.8	8279.0	8877.2	8750.9	7149.0	4739.4	2363.1	452.0
40°	322.4	997.1	4107.9	7152.3	9857.7	10924.5	10698.5	8844.0	5766.4	2991.2	581.6
42.5°	332.4	1176.5	4802.5	8807.4	12958.6	14490.7	14234.8	11961.5	8096.2	4250.8	824.2
45°	378.9	1515.5	6218.4	11901.7	17216.0	19462.8	19167.0	16305.4	11350.0	6620.5	1405.9
47.5°	541.7	2280.0	8701.1	15241.8	21569.9	23361.3	23288.2	19728.7	14298.0	9050.1	2383.0
50°	870.8	3499.7	11526.1	18050.3	24341.8	25880.6	25697.8	21157.8	15979.7	10708.5	3054.4
52.5°	1163.2	4666.3	13300.9	19083.9	25169.3	27003.9	26781.2	21679.6	16421.7	11197.1	3240.5
55°	1236.4	5088.4	13829.3	19402.9	25717.7	27954.5	27632.1	22028.6	16478.2	10848.1	2931.4
57.5°	1199.8	4689.5	13487.0	19715.4	26482.1	28931.6	28502.8	22709.9	16667.7	10256.5	2439.5
59°	1136.7	4197.7	13274.3	19964.6	26904.2	29084.5	28682.3	22859.4	16793.9	9987.3	2140.4
60°	1063.5	3865.3	13108.1	20127.5	26877.6	28845.2	28429.7	22789.6	16843.8	9754.6	1997.5
62.5°	820.9	3084.3	12868.8	20011.2	25199.2	26661.6	26425.6	21081.3	16112.6	9010.2	1575.4
65°	638.1	2359.7	11991.4	17847.5	21443.6	22427.4	22354.3	17850.8	13560.1	7767.2	1136.7
67.5°	505.2	1721.6	10140.2	14454.2	17252.6	18651.8	18598.6	14490.7	10293.1	5935.9	817.6
70°	412.1	1226.4	6952.9	10898.0	13799.4	15560.9	15484.5	11662.4	7627.6	3765.6	594.9
72.5°	349.0	784.4	4217.6	8215.8	11516.1	12523.2	12300.5	9409.0	5547.0	2050.6	471.9
75°	295.8	481.9	2090.5	5121.6	6859.8	6853.2	6630.5	4982.0	2977.9	1003.7	375.6
77.5°	239.3	339.0	820.9	1405.9	2163.6	2678.8	2635.6	1764.8	890.7	292.5	232.6
80°	156.2	159.5	219.4	385.5	594.9	658.1	747.8	538.4	259.2	139.6	96.4
82.5°	69.8	76.4	99.7	126.3	126.3	116.3	103.0	76.4	56.5	46.5	23.3
85°	16.6	23.3	16.6	19.9	16.6	13.3	13.3	6.6	0.0	0.0	0.0
87.5°	3.3	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°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	26.6	26.6	26.6	23.3	23.3	23.3	19.9	19.9	19.9	16.6	16.6
5°	33.2	29.9	26.6	26.6	23.3	23.3	19.9	16.6	16.6	16.6	13.3
7.5°	36.6	33.2	29.9	26.6	23.3	19.9	19.9	16.6	13.3	13.3	13.3
10°	43.2	39.9	33.2	26.6	23.3	19.9	16.6	16.6	13.3	10.0	10.0
12.5°	49.9	43.2	36.6	29.9	23.3	19.9	16.6	16.6	13.3	10.0	6.6
15°	56.5	49.9	39.9	29.9	23.3	19.9	16.6	16.6	10.0	6.6	3.3
17.5°	63.1	53.2	39.9	33.2	23.3	19.9	16.6	13.3	6.6	3.3	0.0
20°	66.5	56.5	43.2	33.2	23.3	19.9	16.6	10.0	3.3	0.0	0.0
22.5°	73.1	63.1	46.5	33.2	23.3	16.6	10.0	3.3	0.0	0.0	0.0
25°	86.4	66.5	46.5	33.2	23.3	16.6	6.6	0.0	0.0	0.0	0.0
27.5°	96.4	73.1	46.5	33.2	23.3	13.3	3.3	0.0	0.0	0.0	0.0
30°	113.0	79.8	49.9	33.2	23.3	10.0	3.3	0.0	0.0	0.0	0.0
32.5°	139.6	86.4	49.9	33.2	19.9	10.0	0.0	0.0	0.0	0.0	0.0
35°	169.5	99.7	49.9	33.2	19.9	10.0	0.0	0.0	0.0	0.0	0.0
37.5°	172.8	106.4	49.9	33.2	19.9	6.6	0.0	0.0	0.0	0.0	0.0
40°	179.5	99.7	53.2	33.2	19.9	6.6	0.0	0.0	0.0	0.0	0.0
42.5°	206.1	93.1	56.5	33.2	19.9	6.6	0.0	0.0	0.0	0.0	0.0
45°	305.8	96.4	56.5	36.6	19.9	10.0	0.0	0.0	0.0	0.0	0.0
47.5°	531.8	99.7	53.2	36.6	19.9	10.0	0.0	0.0	0.0	0.0	0.0
50°	681.3	116.3	53.2	39.9	23.3	6.6	0.0	0.0	0.0	0.0	0.0
52.5°	724.5	136.3	53.2	43.2	29.9	3.3	0.0	0.0	0.0	0.0	0.0
55°	704.6	159.5	56.5	46.5	36.6	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	651.4	172.8	59.8	49.9	39.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	594.9	182.8	69.8	53.2	39.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	548.4	192.8	73.1	56.5	39.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	442.0	206.1	79.8	66.5	33.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	385.5	216.0	83.1	73.1	29.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	352.3	222.7	89.7	76.4	26.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	325.7	219.4	96.4	73.1	23.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	295.8	209.4	116.3	66.5	19.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	265.9	189.4	126.3	59.8	13.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	192.8	159.5	116.3	53.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	83.1	86.4	83.1	39.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.6	19.9	16.6	10.0	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°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	16.6	16.6	16.6	16.6	19.9	19.9	26.6	33.2	39.9	43.2	43.2
5°	13.3	13.3	13.3	13.3	13.3	16.6	19.9	26.6	36.6	39.9	39.9
7.5°	10.0	10.0	10.0	10.0	10.0	10.0	16.6	23.3	33.2	36.6	39.9
10°	10.0	6.6	6.6	3.3	3.3	6.6	10.0	19.9	29.9	33.2	36.6
12.5°	6.6	3.3	3.3	0.0	0.0	3.3	6.6	16.6	26.6	29.9	33.2
15°	3.3	0.0	0.0	0.0	0.0	0.0	3.3	13.3	23.3	26.6	33.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	19.9	26.6	29.9
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	16.6	23.3	26.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.3	19.9	23.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	13.3	16.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	10.0	13.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	10.0	13.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	10.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	10.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	6.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3
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°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
2.5°	46.5	46.5	43.2	39.9	39.9	39.9	43.2	46.5	46.5	46.5
5°	43.2	43.2	39.9	39.9	39.9	39.9	43.2	49.9	53.2	53.2
7.5°	43.2	43.2	39.9	39.9	39.9	39.9	43.2	49.9	53.2	56.5
10°	39.9	39.9	39.9	39.9	36.6	39.9	43.2	49.9	59.8	59.8
12.5°	39.9	39.9	39.9	39.9	36.6	39.9	46.5	53.2	63.1	66.5
15°	39.9	39.9	39.9	36.6	36.6	39.9	46.5	56.5	66.5	73.1
17.5°	36.6	39.9	39.9	36.6	36.6	39.9	46.5	56.5	73.1	83.1
20°	33.2	36.6	39.9	36.6	36.6	36.6	46.5	56.5	76.4	89.7
22.5°	29.9	33.2	36.6	36.6	33.2	36.6	46.5	59.8	83.1	99.7
25°	26.6	29.9	29.9	33.2	33.2	36.6	46.5	59.8	86.4	113.0
27.5°	19.9	23.3	26.6	29.9	29.9	36.6	46.5	63.1	93.1	139.6
30°	16.6	19.9	23.3	26.6	29.9	36.6	46.5	63.1	99.7	176.1
32.5°	16.6	19.9	23.3	26.6	29.9	33.2	46.5	66.5	109.7	219.4
35°	13.3	16.6	19.9	26.6	26.6	33.2	46.5	66.5	119.6	285.8
37.5°	13.3	16.6	19.9	26.6	26.6	33.2	46.5	66.5	146.2	319.1
40°	10.0	13.3	16.6	26.6	26.6	33.2	49.9	69.8	149.6	322.4
42.5°	10.0	13.3	16.6	23.3	26.6	33.2	49.9	69.8	139.6	332.4
45°	10.0	13.3	16.6	26.6	29.9	36.6	49.9	73.1	136.3	378.9
47.5°	10.0	13.3	16.6	26.6	33.2	36.6	49.9	73.1	139.6	541.7
50°	10.0	13.3	16.6	26.6	36.6	36.6	49.9	73.1	152.9	870.8
52.5°	6.6	10.0	13.3	23.3	29.9	39.9	53.2	69.8	162.9	1163.2
55°	6.6	6.6	10.0	19.9	26.6	43.2	56.5	69.8	189.4	1236.4
57.5°	6.6	6.6	10.0	16.6	23.3	46.5	59.8	69.8	219.4	1199.8
59°	6.6	6.6	6.6	16.6	19.9	46.5	59.8	73.1	222.7	1136.7
60°	6.6	6.6	6.6	13.3	19.9	46.5	63.1	76.4	226.0	1063.5
62.5°	3.3	3.3	3.3	13.3	16.6	46.5	69.8	93.1	232.6	820.9
65°	6.6	6.6	3.3	10.0	16.6	39.9	79.8	99.7	236.0	638.1
67.5°	6.6	6.6	6.6	13.3	16.6	39.9	83.1	103.0	236.0	505.2
70°	6.6	6.6	6.6	13.3	19.9	39.9	83.1	106.4	232.6	412.1
72.5°	6.6	6.6	6.6	13.3	19.9	36.6	76.4	109.7	222.7	349.0
75°	6.6	6.6	6.6	10.0	16.6	33.2	73.1	119.6	202.7	295.8
77.5°	6.6	6.6	6.6	6.6	13.3	26.6	66.5	132.9	179.5	239.3
80°	10.0	6.6	6.6	6.6	10.0	23.3	63.1	129.6	149.6	156.2
82.5°	10.0	6.6	6.6	3.3	6.6	16.6	49.9	99.7	76.4	69.8
85°	6.6	6.6	6.6	3.3	3.3	10.0	23.3	29.9	23.3	16.6
87.5°	6.6	6.6	6.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

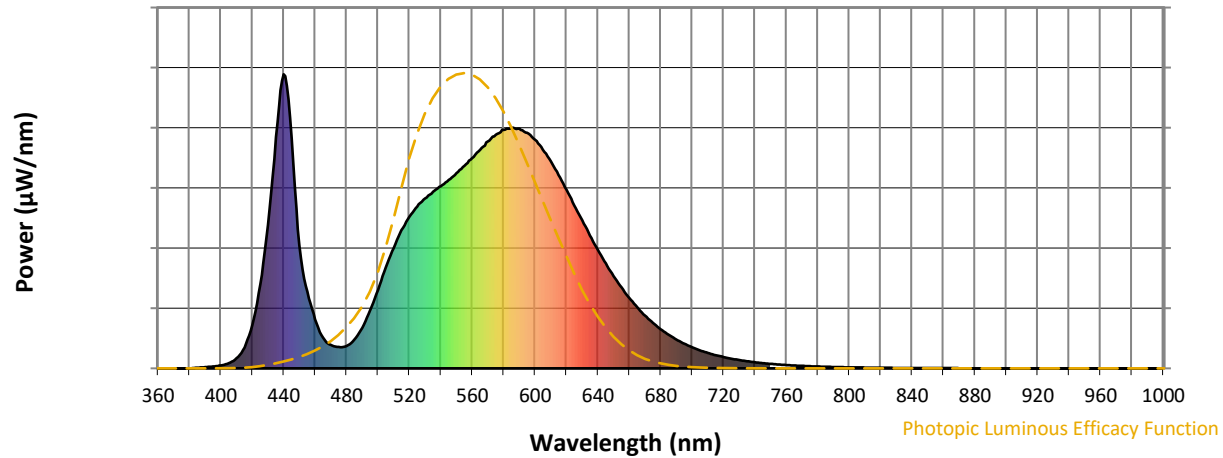
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

REPORT NUMBER: SP1-2407-184-1

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: SP1-2407-184-1

Photopic Flux vs. Wavelength

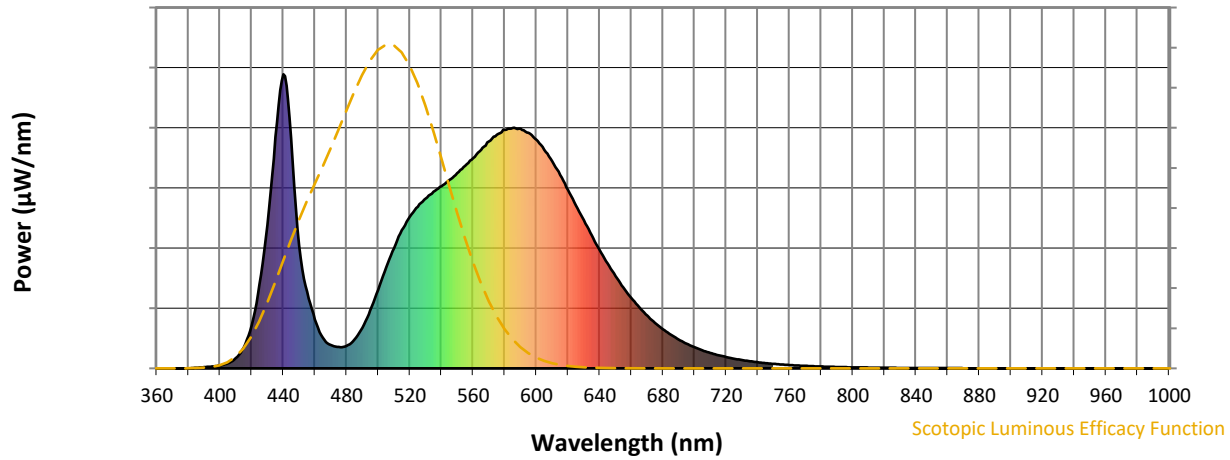


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



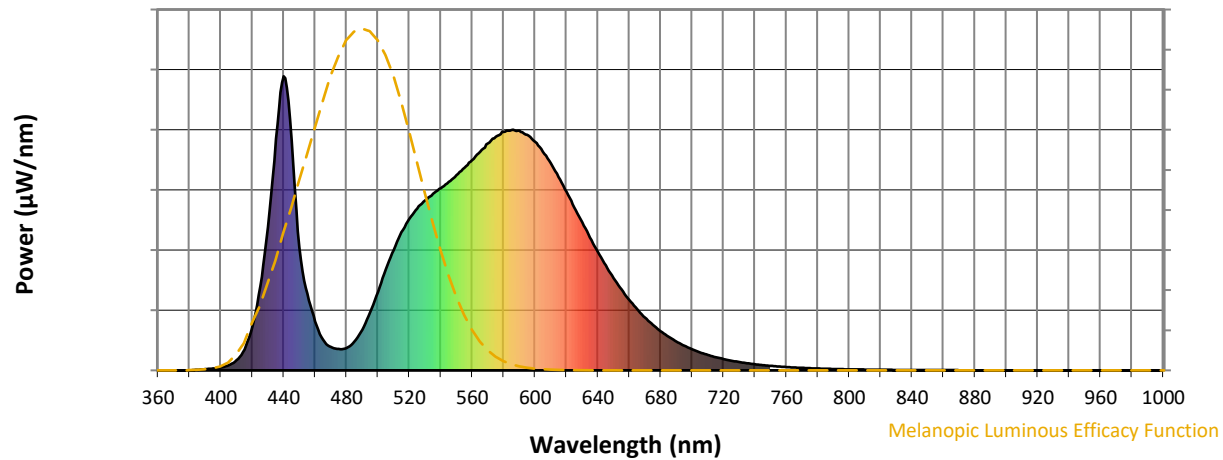
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

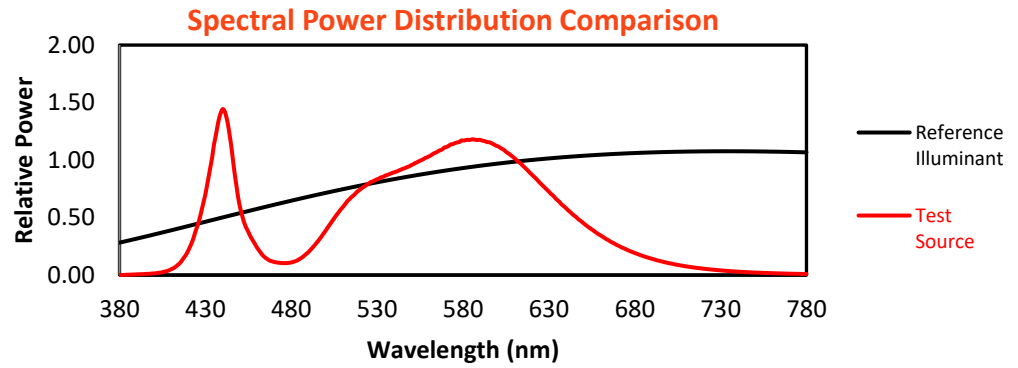
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

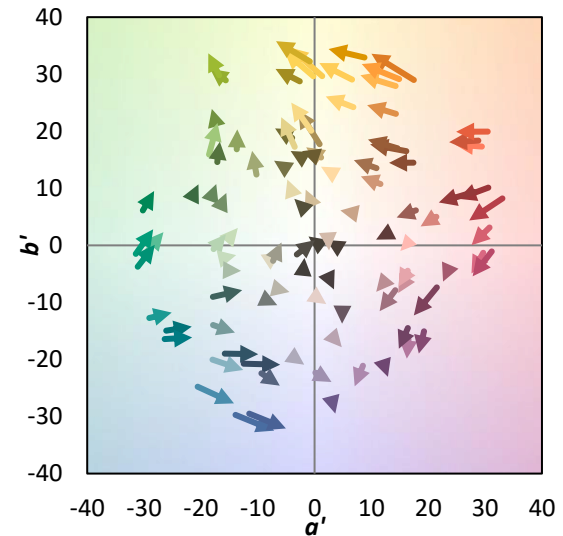
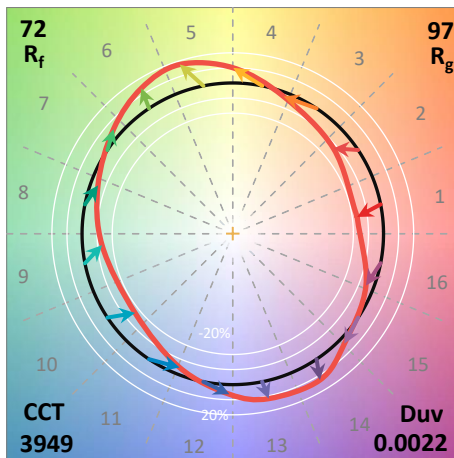
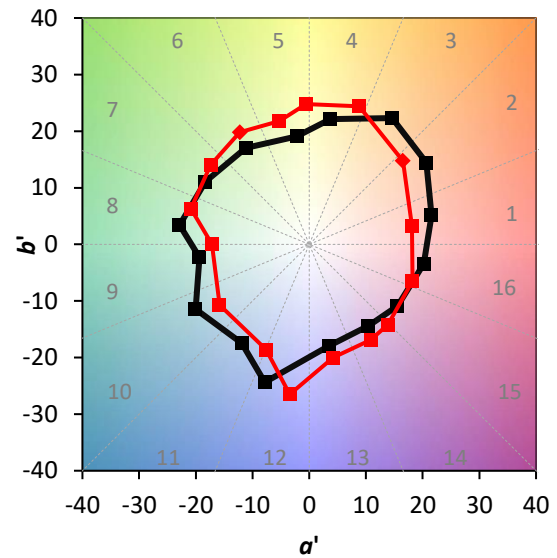
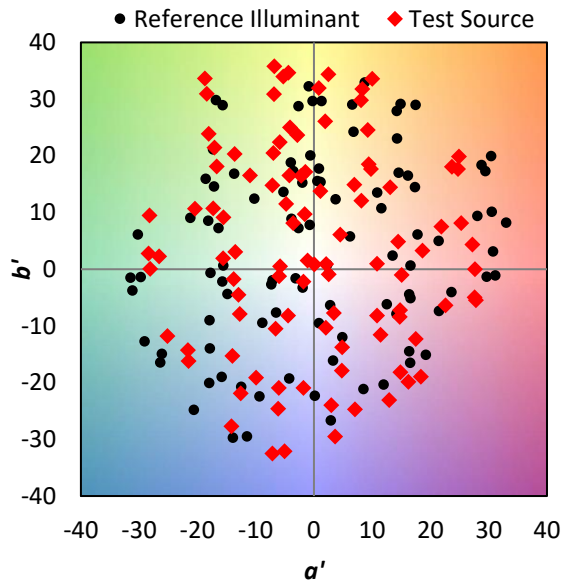
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$

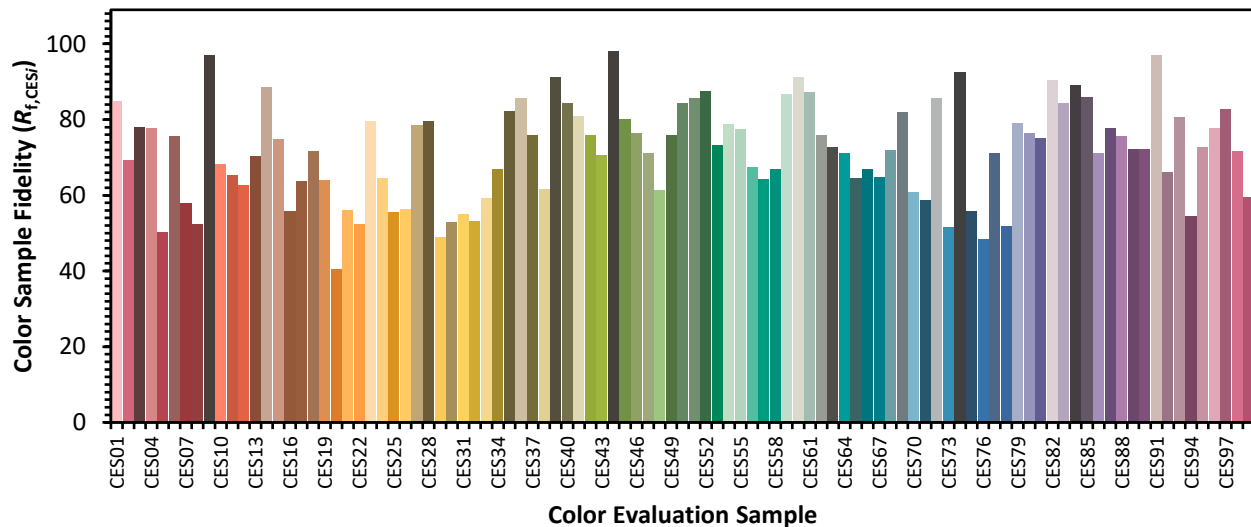


Color Vector Graphics

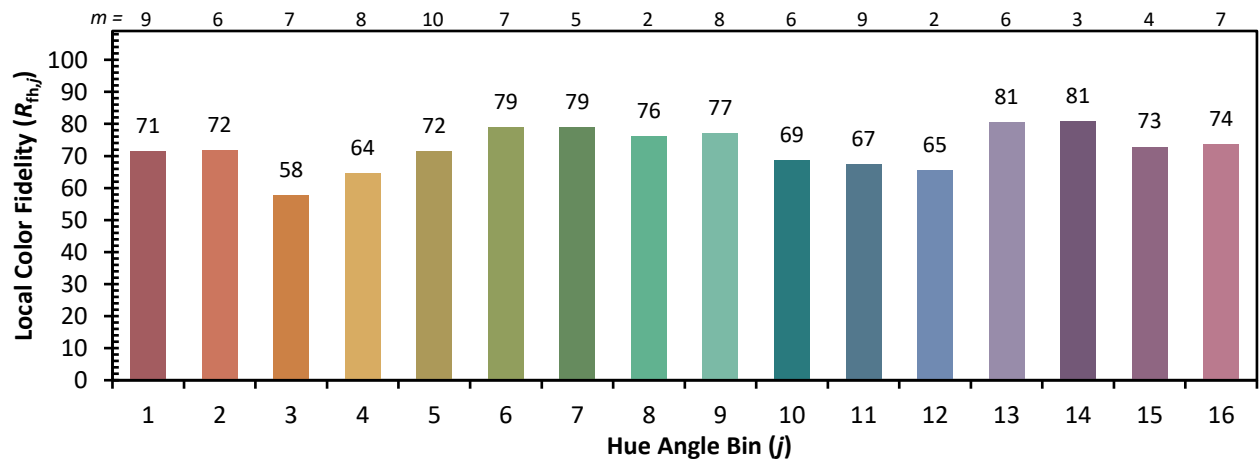
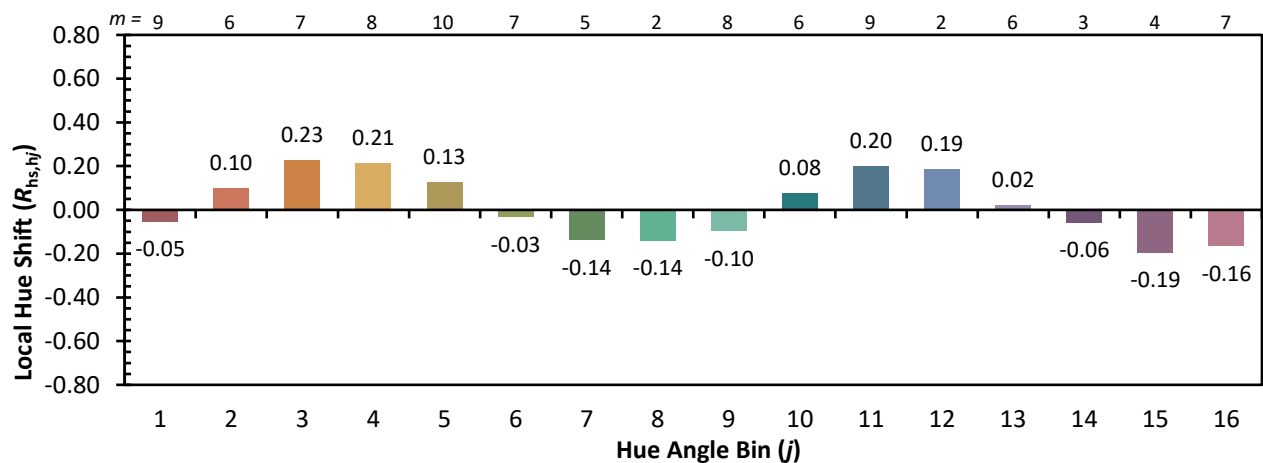
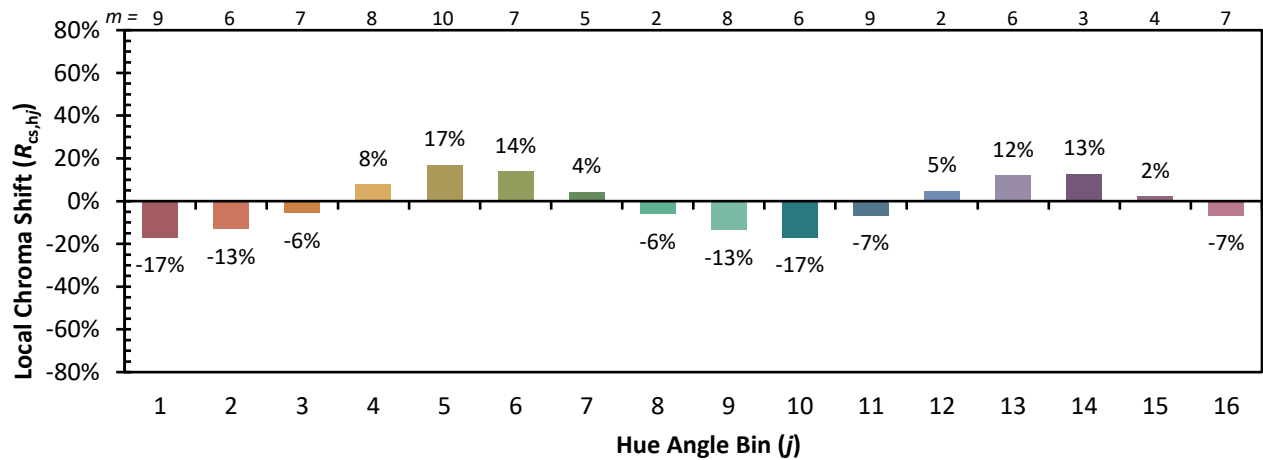


Individual Sample Fidelity Index ($R_{f,i}$)

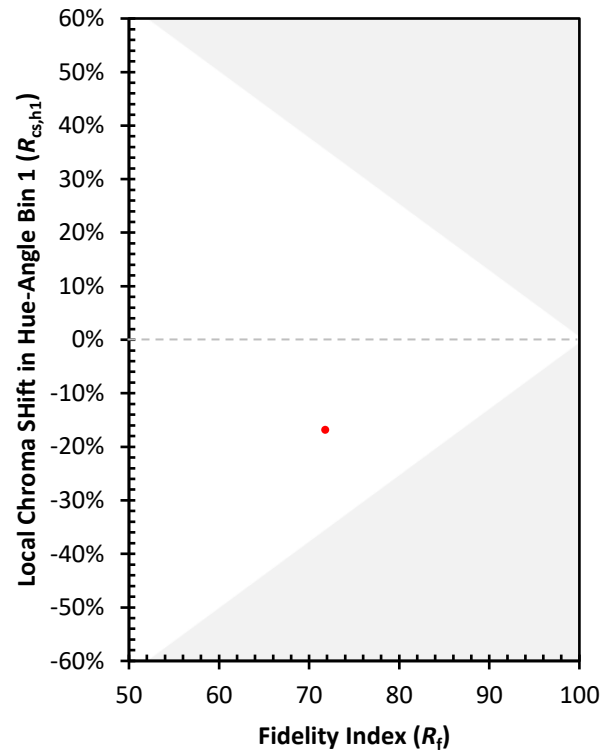
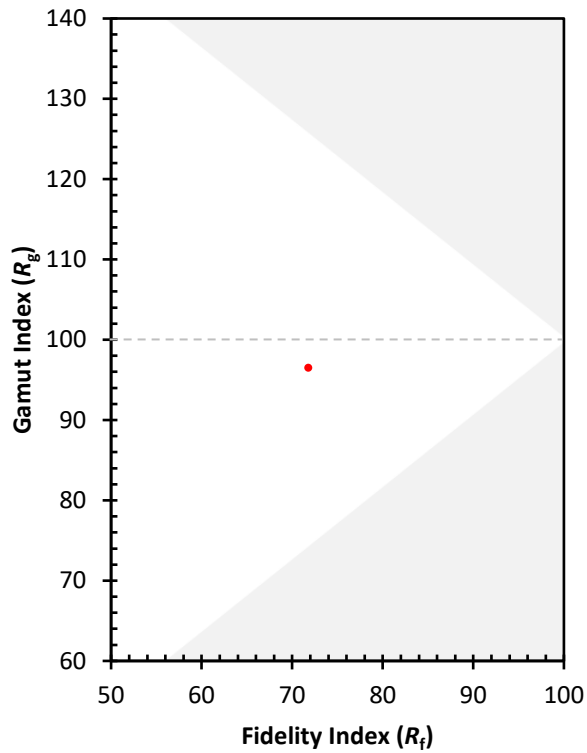
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)