

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: P1067929

Luminaire Tested: **NAV-SA4A-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067929
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA4A-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 4xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10221.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 107.4
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



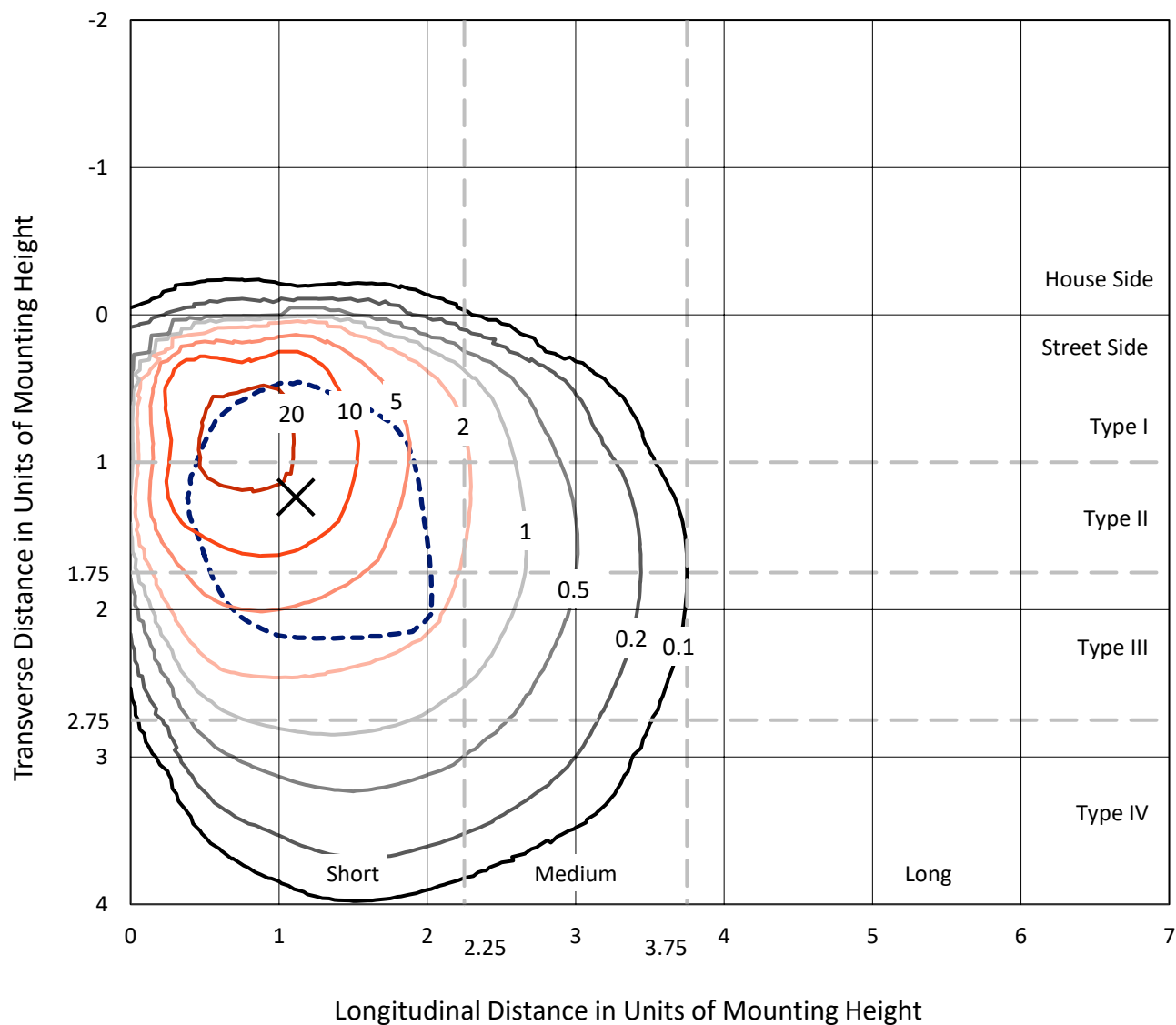
REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

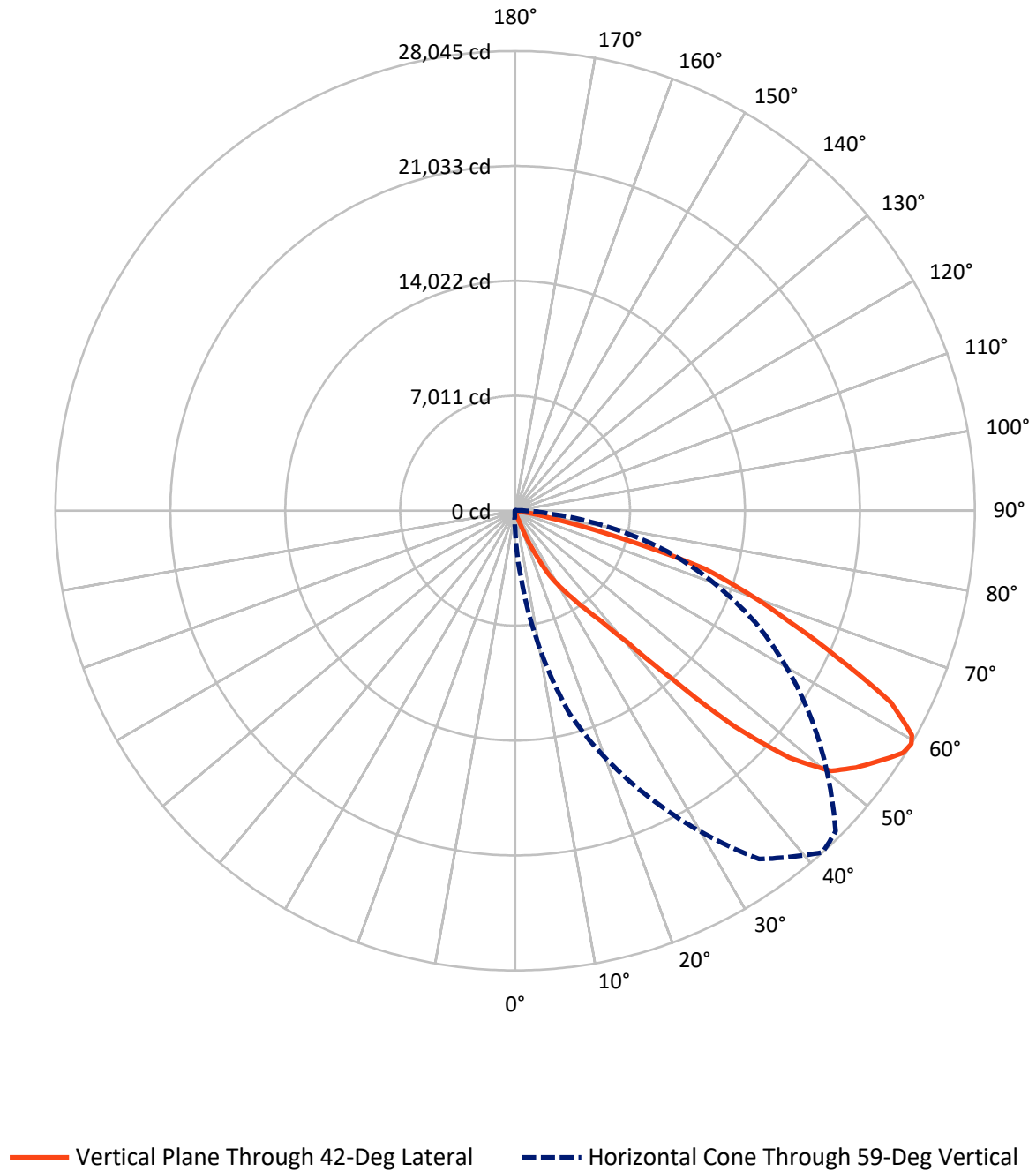


Based on 15 foot mounting height. Maximum calculated value = 30.4 fc
 Type III - Short - N/A

REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

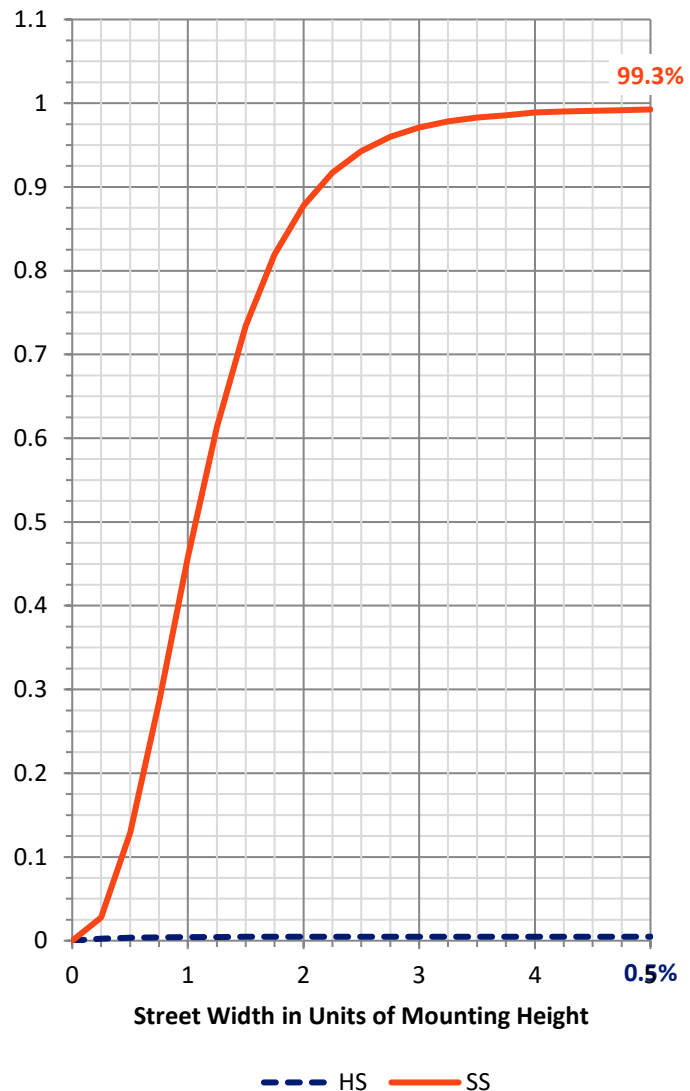
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	49.2	0.0	49.2
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	10172.1	0.0	10172.1
	% Fixture	99.5	0.0	99.5
Total	Lumens	10221.3	0.0	10221.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.0
10°-20°	14.9	0.1
20°-30°	190.7	1.9
30°-40°	642.8	6.3
40°-50°	1941.5	19.0
50°-60°	3427.2	33.5
60°-70°	3017.7	29.5
70°-80°	960.5	9.4
80°-90°	23.0	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°	10221.3	100.0
0°-180°	10221.3	100.0



REPORT NUMBER: P1067929

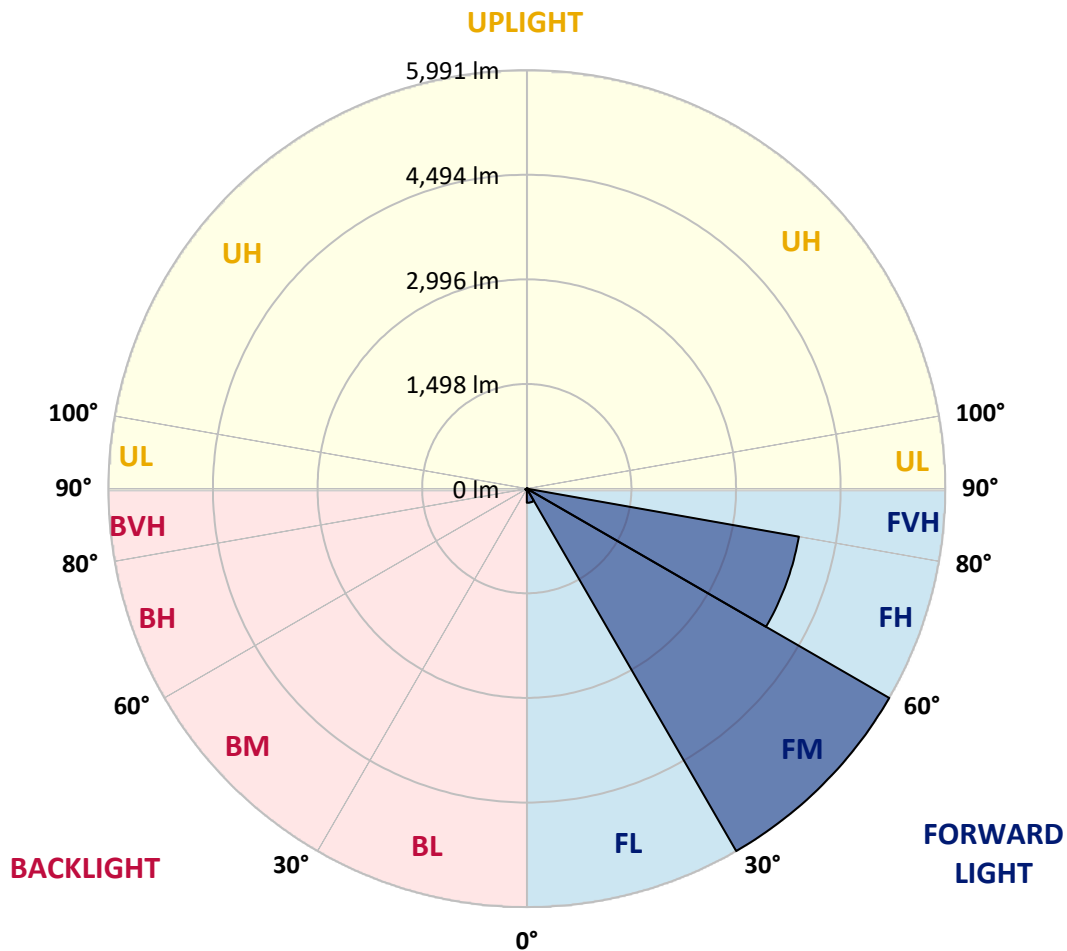
CATALOG NUMBER: NAV-SA4A-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.1	2.0			
FM	(30°-60°)	5991.4	58.6			
FH	(60°-80°)	3955.7	38.7			G2/5000
FVH	(80°-90°)	21.9	0.2			G1/100
BL	(0°-30°)	5.5	0.1	B0/110		
BM	(30°-60°)	20.1	0.2	B0/220		
BH	(60°-80°)	22.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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



REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	44.9	44.9	41.7	38.5	35.3	32.0	32.0	32.0	28.8	28.8	25.6
5°	51.3	51.3	48.1	44.9	44.9	41.7	41.7	38.5	35.3	35.3	32.0
7.5°	54.5	54.5	54.5	54.5	51.3	51.3	51.3	48.1	44.9	41.7	38.5
10°	57.7	60.9	64.1	64.1	64.1	64.1	64.1	60.9	54.5	51.3	44.9
12.5°	64.1	67.3	73.7	80.1	80.1	83.3	80.1	76.9	70.5	60.9	51.3
15°	70.5	76.9	86.5	99.3	112.2	115.4	115.4	105.8	92.9	73.7	60.9
17.5°	80.1	89.7	115.4	157.0	201.9	237.1	237.1	211.5	147.4	96.1	70.5
20°	86.5	105.8	185.9	378.2	576.9	724.3	695.4	615.3	330.1	150.6	76.9
22.5°	96.1	134.6	394.2	993.5	1538.3	1807.5	1743.4	1323.6	740.3	269.2	92.9
25°	109.0	195.5	782.0	1861.9	2858.6	3150.2	3108.6	2470.8	1349.2	451.9	118.6
27.5°	134.6	288.4	1253.0	2823.4	4217.4	4467.4	4451.4	3618.1	2156.8	727.5	153.8
30°	169.9	419.8	1858.7	3836.1	5117.9	5371.1	5291.0	4457.8	2909.9	1112.0	198.7
32.5°	211.5	586.5	2406.7	4582.8	5948.0	6281.3	6185.1	5188.4	3515.6	1438.9	294.8
35°	275.6	749.9	2948.3	5242.9	6906.2	7329.2	7169.0	5941.6	4038.0	1807.5	355.7
37.5°	307.7	846.0	3445.1	5960.8	7983.0	8559.8	8438.0	6893.4	4569.9	2278.6	435.8
40°	310.9	961.4	3961.0	6896.6	9505.2	10533.9	10316.0	8527.8	5560.2	2884.3	560.8
42.5°	320.5	1134.5	4630.8	8492.5	12495.2	13972.6	13725.8	11533.8	7806.7	4098.8	794.8
45°	365.3	1461.4	5996.0	11476.1	16600.5	18766.9	18481.6	15722.4	10944.1	6383.8	1355.6
47.5°	522.4	2198.4	8390.0	14696.9	20798.7	22526.0	22455.5	19023.2	13786.7	8726.5	2297.8
50°	839.6	3374.6	11114.0	17404.8	23471.4	24955.2	24778.9	20401.3	15408.3	10325.6	2945.1
52.5°	1121.7	4499.4	12825.3	18401.5	24269.4	26038.4	25823.7	20904.4	15834.5	10796.7	3124.6
55°	1192.2	4906.4	13334.9	18709.2	24798.1	26954.9	26644.1	21240.9	15889.0	10460.2	2826.6
57.5°	1156.9	4521.9	13004.8	19010.4	25535.2	27897.1	27483.7	21897.9	16071.7	9889.8	2352.3
59°	1096.0	4047.6	12799.7	19250.8	25942.2	28044.5	27656.8	22042.1	16193.5	9630.2	2063.8
60°	1025.5	3727.1	12639.4	19407.8	25916.6	27813.8	27413.2	21974.8	16241.5	9405.9	1926.0
62.5°	791.6	2974.0	12408.7	19295.6	24298.2	25708.3	25480.8	20327.6	15536.5	8688.0	1519.0
65°	615.3	2275.4	11562.6	17209.4	20676.9	21625.5	21555.0	17212.6	13075.3	7489.4	1096.0
67.5°	487.1	1660.0	9777.6	13937.3	16635.7	17984.9	17933.6	13972.6	9925.0	5723.6	788.4
70°	397.4	1182.5	6704.3	10508.3	13306.0	15004.5	14930.8	11245.4	7354.8	3631.0	573.6
72.5°	336.5	756.3	4066.8	7922.1	11104.4	12075.4	11860.7	9072.6	5348.7	1977.3	455.1
75°	285.2	464.7	2015.8	4938.5	6614.5	6608.1	6393.4	4803.9	2871.4	967.8	362.1
77.5°	230.7	326.9	791.6	1355.6	2086.3	2583.0	2541.3	1701.7	858.9	282.0	224.3
80°	150.6	153.8	211.5	371.7	573.6	634.5	721.1	519.2	250.0	134.6	92.9
82.5°	67.3	73.7	96.1	121.8	121.8	112.2	99.3	73.7	54.5	44.9	22.4
85°	16.0	22.4	16.0	19.2	16.0	12.8	12.8	6.4	0.0	0.0	0.0
87.5°	3.2	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



REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	25.6	25.6	25.6	22.4	22.4	22.4	19.2	19.2	19.2	16.0	16.0
5°	32.0	28.8	25.6	25.6	22.4	22.4	19.2	16.0	16.0	16.0	12.8
7.5°	35.3	32.0	28.8	25.6	22.4	19.2	19.2	16.0	12.8	12.8	12.8
10°	41.7	38.5	32.0	25.6	22.4	19.2	16.0	16.0	12.8	9.6	9.6
12.5°	48.1	41.7	35.3	28.8	22.4	19.2	16.0	16.0	12.8	9.6	6.4
15°	54.5	48.1	38.5	28.8	22.4	19.2	16.0	16.0	9.6	6.4	3.2
17.5°	60.9	51.3	38.5	32.0	22.4	19.2	16.0	12.8	6.4	3.2	0.0
20°	64.1	54.5	41.7	32.0	22.4	19.2	16.0	9.6	3.2	0.0	0.0
22.5°	70.5	60.9	44.9	32.0	22.4	16.0	9.6	3.2	0.0	0.0	0.0
25°	83.3	64.1	44.9	32.0	22.4	16.0	6.4	0.0	0.0	0.0	0.0
27.5°	92.9	70.5	44.9	32.0	22.4	12.8	3.2	0.0	0.0	0.0	0.0
30°	109.0	76.9	48.1	32.0	22.4	9.6	3.2	0.0	0.0	0.0	0.0
32.5°	134.6	83.3	48.1	32.0	19.2	9.6	0.0	0.0	0.0	0.0	0.0
35°	163.4	96.1	48.1	32.0	19.2	9.6	0.0	0.0	0.0	0.0	0.0
37.5°	166.6	102.6	48.1	32.0	19.2	6.4	0.0	0.0	0.0	0.0	0.0
40°	173.1	96.1	51.3	32.0	19.2	6.4	0.0	0.0	0.0	0.0	0.0
42.5°	198.7	89.7	54.5	32.0	19.2	6.4	0.0	0.0	0.0	0.0	0.0
45°	294.8	92.9	54.5	35.3	19.2	9.6	0.0	0.0	0.0	0.0	0.0
47.5°	512.8	96.1	51.3	35.3	19.2	9.6	0.0	0.0	0.0	0.0	0.0
50°	657.0	112.2	51.3	38.5	22.4	6.4	0.0	0.0	0.0	0.0	0.0
52.5°	698.6	131.4	51.3	41.7	28.8	3.2	0.0	0.0	0.0	0.0	0.0
55°	679.4	153.8	54.5	44.9	35.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	628.1	166.6	57.7	48.1	38.5	0.0	0.0	0.0	0.0	0.0	0.0
59°	573.6	176.3	67.3	51.3	38.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	528.8	185.9	70.5	54.5	38.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	426.2	198.7	76.9	64.1	32.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	371.7	208.3	80.1	70.5	28.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	339.7	214.7	86.5	73.7	25.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	314.1	211.5	92.9	70.5	22.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	285.2	201.9	112.2	64.1	19.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	256.4	182.7	121.8	57.7	12.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	185.9	153.8	112.2	51.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.1	83.3	80.1	38.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	19.2	16.0	9.6	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



REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	16.0	16.0	16.0	16.0	19.2	19.2	25.6	32.0	38.5	41.7	41.7
5°	12.8	12.8	12.8	12.8	12.8	16.0	19.2	25.6	35.3	38.5	38.5
7.5°	9.6	9.6	9.6	9.6	9.6	9.6	16.0	22.4	32.0	35.3	38.5
10°	9.6	6.4	6.4	3.2	3.2	6.4	9.6	19.2	28.8	32.0	35.3
12.5°	6.4	3.2	3.2	0.0	0.0	3.2	6.4	16.0	25.6	28.8	32.0
15°	3.2	0.0	0.0	0.0	0.0	0.0	3.2	12.8	22.4	25.6	32.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	19.2	25.6	28.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	16.0	22.4	25.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	12.8	19.2	22.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	12.8	16.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	9.6	12.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	9.6	12.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	9.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	9.6
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4	6.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	6.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1067929

CATALOG NUMBER: NAV-SA4A-727-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
2.5°	44.9	44.9	41.7	38.5	38.5	38.5	41.7	44.9	44.9	44.9
5°	41.7	41.7	38.5	38.5	38.5	38.5	41.7	48.1	51.3	51.3
7.5°	41.7	41.7	38.5	38.5	38.5	38.5	41.7	48.1	51.3	54.5
10°	38.5	38.5	38.5	38.5	35.3	38.5	41.7	48.1	57.7	57.7
12.5°	38.5	38.5	38.5	38.5	35.3	38.5	44.9	51.3	60.9	64.1
15°	38.5	38.5	38.5	35.3	35.3	38.5	44.9	54.5	64.1	70.5
17.5°	35.3	38.5	38.5	35.3	35.3	38.5	44.9	54.5	70.5	80.1
20°	32.0	35.3	38.5	35.3	35.3	35.3	44.9	54.5	73.7	86.5
22.5°	28.8	32.0	35.3	35.3	32.0	35.3	44.9	57.7	80.1	96.1
25°	25.6	28.8	28.8	32.0	32.0	35.3	44.9	57.7	83.3	109.0
27.5°	19.2	22.4	25.6	28.8	28.8	35.3	44.9	60.9	89.7	134.6
30°	16.0	19.2	22.4	25.6	28.8	35.3	44.9	60.9	96.1	169.9
32.5°	16.0	19.2	22.4	25.6	28.8	32.0	44.9	64.1	105.8	211.5
35°	12.8	16.0	19.2	25.6	25.6	32.0	44.9	64.1	115.4	275.6
37.5°	12.8	16.0	19.2	25.6	25.6	32.0	44.9	64.1	141.0	307.7
40°	9.6	12.8	16.0	25.6	25.6	32.0	48.1	67.3	144.2	310.9
42.5°	9.6	12.8	16.0	22.4	25.6	32.0	48.1	67.3	134.6	320.5
45°	9.6	12.8	16.0	25.6	28.8	35.3	48.1	70.5	131.4	365.3
47.5°	9.6	12.8	16.0	25.6	32.0	35.3	48.1	70.5	134.6	522.4
50°	9.6	12.8	16.0	25.6	35.3	35.3	48.1	70.5	147.4	839.6
52.5°	6.4	9.6	12.8	22.4	28.8	38.5	51.3	67.3	157.0	1121.7
55°	6.4	6.4	9.6	19.2	25.6	41.7	54.5	67.3	182.7	1192.2
57.5°	6.4	6.4	9.6	16.0	22.4	44.9	57.7	67.3	211.5	1156.9
59°	6.4	6.4	6.4	16.0	19.2	44.9	57.7	70.5	214.7	1096.0
60°	6.4	6.4	6.4	12.8	19.2	44.9	60.9	73.7	217.9	1025.5
62.5°	3.2	3.2	3.2	12.8	16.0	44.9	67.3	89.7	224.3	791.6
65°	6.4	6.4	3.2	9.6	16.0	38.5	76.9	96.1	227.5	615.3
67.5°	6.4	6.4	6.4	12.8	16.0	38.5	80.1	99.3	227.5	487.1
70°	6.4	6.4	6.4	12.8	19.2	38.5	80.1	102.6	224.3	397.4
72.5°	6.4	6.4	6.4	12.8	19.2	35.3	73.7	105.8	214.7	336.5
75°	6.4	6.4	6.4	9.6	16.0	32.0	70.5	115.4	195.5	285.2
77.5°	6.4	6.4	6.4	6.4	12.8	25.6	64.1	128.2	173.1	230.7
80°	9.6	6.4	6.4	6.4	9.6	22.4	60.9	125.0	144.2	150.6
82.5°	9.6	6.4	6.4	3.2	6.4	16.0	48.1	96.1	73.7	67.3
85°	6.4	6.4	6.4	3.2	3.2	9.6	22.4	28.8	22.4	16.0
87.5°	6.4	6.4	6.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

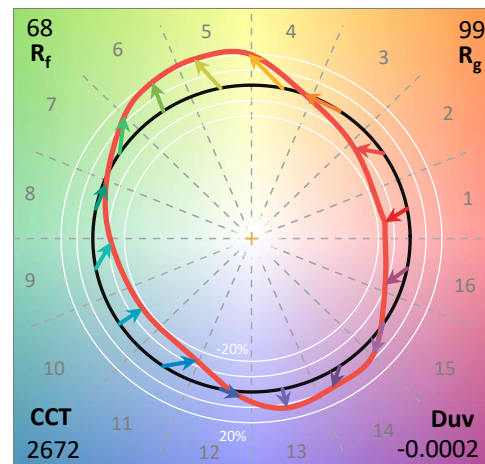
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-3
 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-727-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K):	2672	CRI (Ra):	71.1		
CIE u':	0.2638	R1:	68.3	R9:	-27.8
CIE v':	0.5276	R2:	79.8	R10:	54.4
Duv:	-0.0002	R3:	91.2	R11:	65.8
CIE x:	0.4619	R4:	69.4	R12:	45.6
CIE y:	0.4106	R5:	66.5	R13:	69.8
CIE z:	0.1275	R6:	72.6	R14:	94.5
Peak Wavelength (nm):	601	R7:	77.0	R15:	60.1
Dominant Wavelength (nm):	584	R8:	44.1		
Purity:	61.88407				
Rf:	67.9				
Rg:	98.6				



Test Conditions

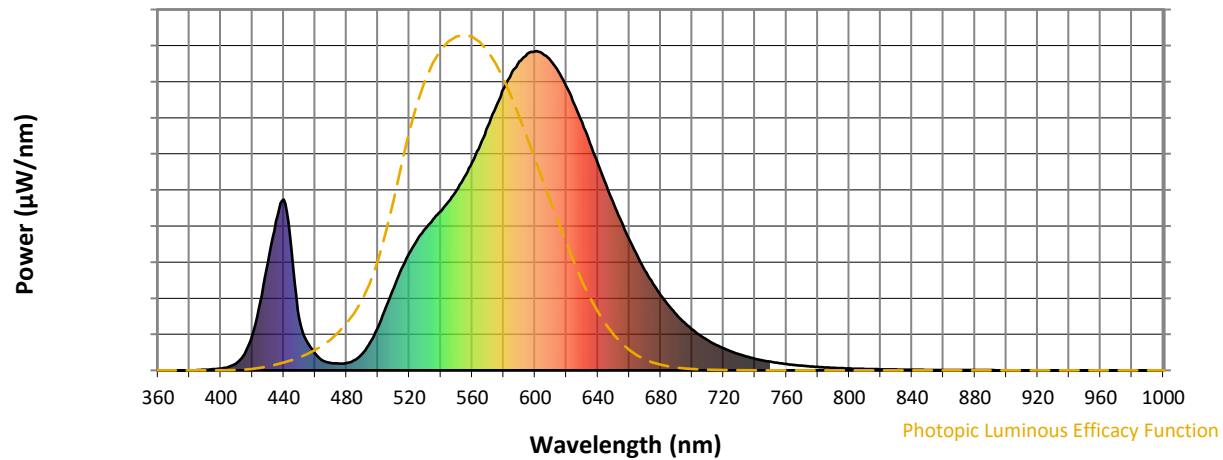
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

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: SP1-2407-184-3

Photopic Flux vs. Wavelength

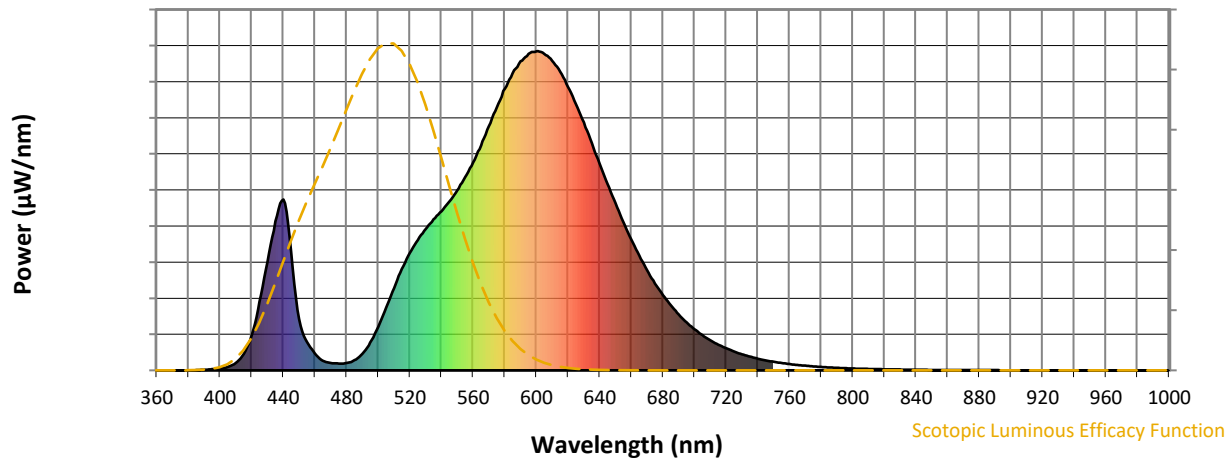


Photopic Lumens: NR

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Scotopic Flux vs. Wavelength



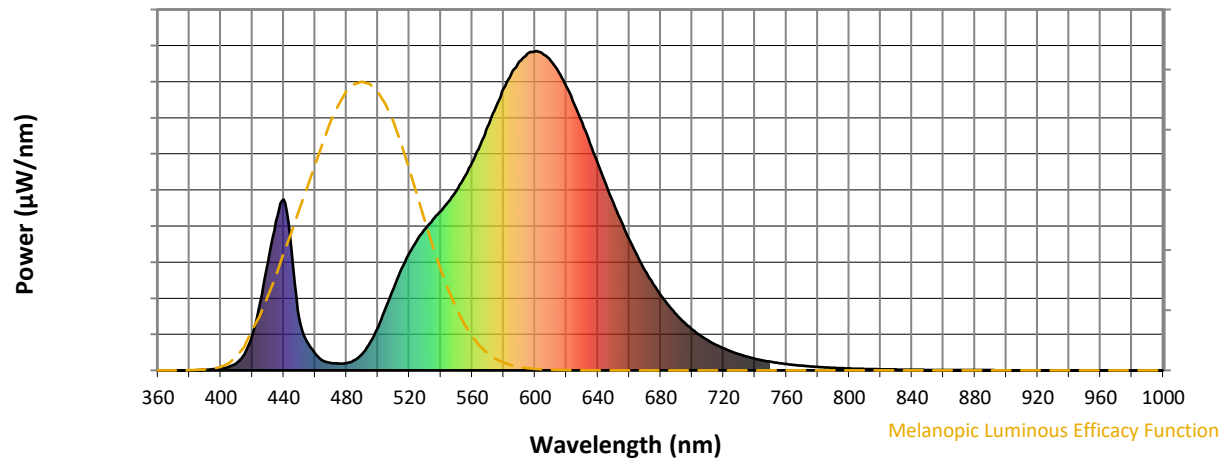
Scotopic Lumens: NR

S/P: 1.02

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-3

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.71

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	52	NR	620	888	NR	750	27	NR	880	1	NR
365	0	NR	495	87	NR	625	834	NR	755	23	NR	885	1	NR
370	0	NR	500	135	NR	630	776	NR	760	20	NR	890	1	NR
375	0	NR	505	196	NR	635	712	NR	765	17	NR	895	0	NR
380	0	NR	510	258	NR	640	648	NR	770	15	NR	900	0	NR
385	1	NR	515	317	NR	645	583	NR	775	12	NR	905	0	NR
390	2	NR	520	368	NR	650	523	NR	780	11	NR	910	0	NR
395	4	NR	525	408	NR	655	465	NR	785	9	NR	915	0	NR
400	6	NR	530	443	NR	660	410	NR	790	8	NR	920	0	NR
405	11	NR	535	473	NR	665	360	NR	795	7	NR	925	0	NR
410	23	NR	540	498	NR	670	313	NR	800	6	NR	930	0	NR
415	51	NR	545	530	NR	675	272	NR	805	5	NR	935	0	NR
420	111	NR	550	563	NR	680	236	NR	810	4	NR	940	0	NR
425	214	NR	555	605	NR	685	203	NR	815	4	NR	945	0	NR
430	339	NR	560	651	NR	690	175	NR	820	3	NR	950	0	NR
435	467	NR	565	705	NR	695	150	NR	825	3	NR	955	0	NR
440	535	NR	570	765	NR	700	128	NR	830	3	NR	960	0	NR
445	372	NR	575	824	NR	705	110	NR	835	2	NR	965	0	NR
450	160	NR	580	882	NR	710	94	NR	840	2	NR	970	0	NR
455	89	NR	585	930	NR	715	80	NR	845	2	NR	975	0	NR
460	53	NR	590	968	NR	720	69	NR	850	1	NR	980	0	NR
465	31	NR	595	991	NR	725	59	NR	855	1	NR	985	0	NR
470	23	NR	600	999	NR	730	50	NR	860	1	NR	990	0	NR
475	21	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	23	NR	610	969	NR	740	36	NR	870	1	NR	1000	0	NR
485	32	NR	615	935	NR	745	31	NR	875	1	NR			

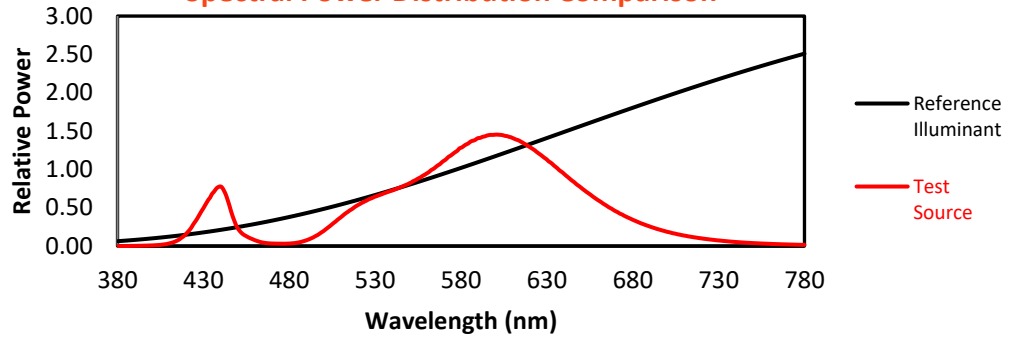
REPORT NUMBER: SP1-2407-184-3

TM-30-18

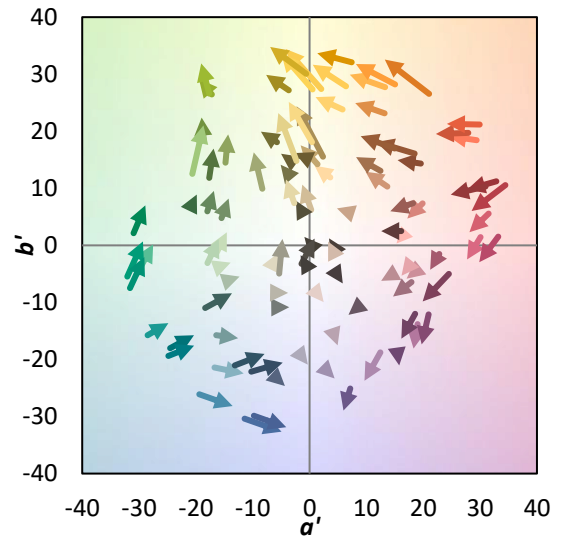
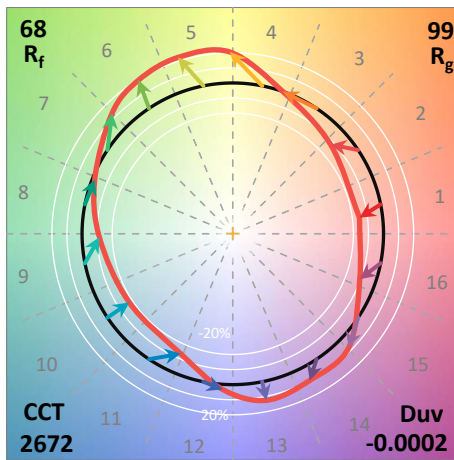
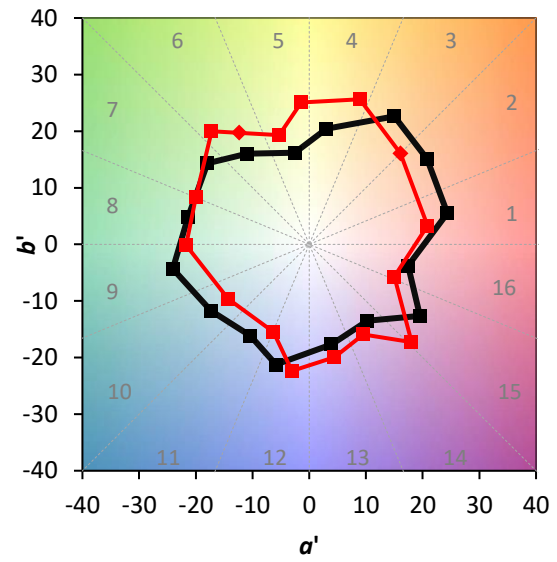
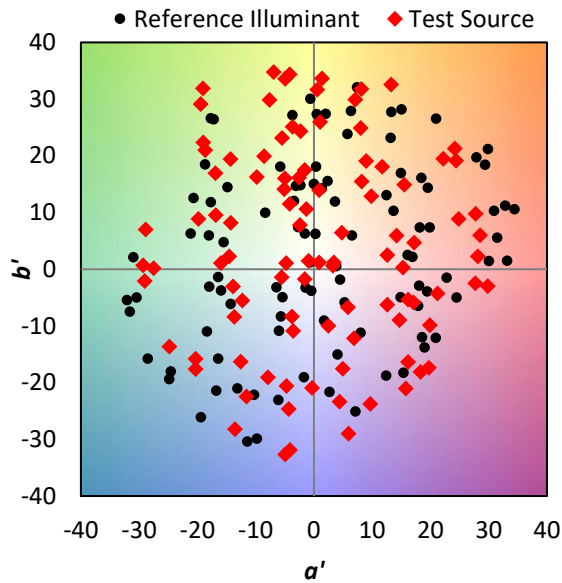
Summary

$R_f = 67.9$
 $R_g = 98.6$
 $CIE R_a = 71.1$
 $R_g = -27.8$

Spectral Power Distribution Comparison

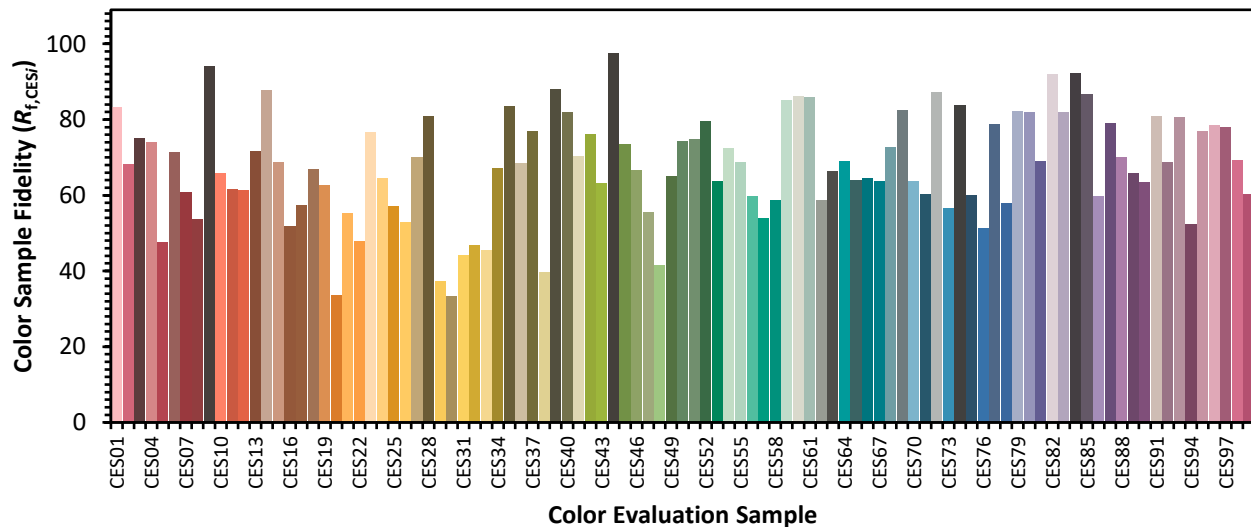


Color Vector Graphics

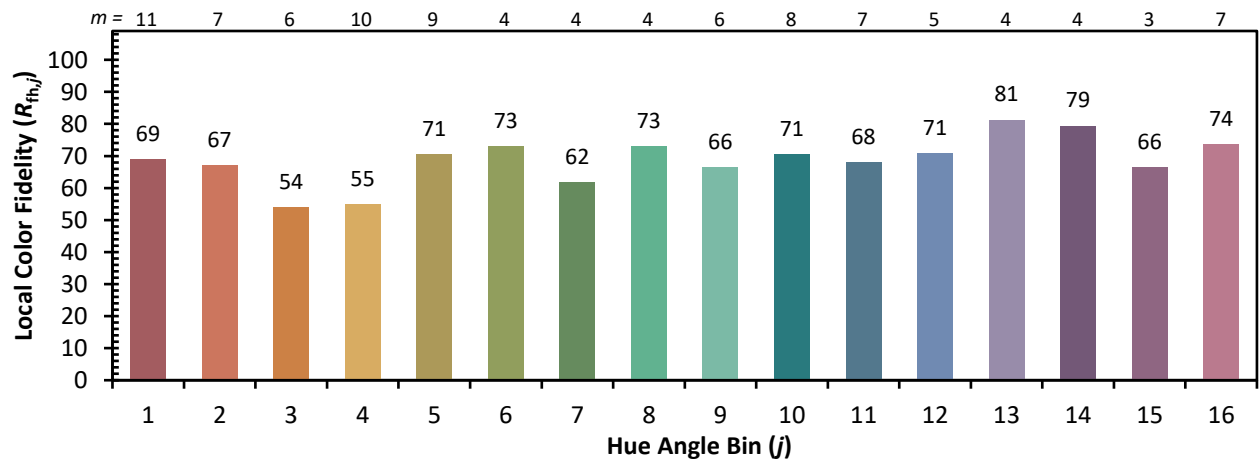
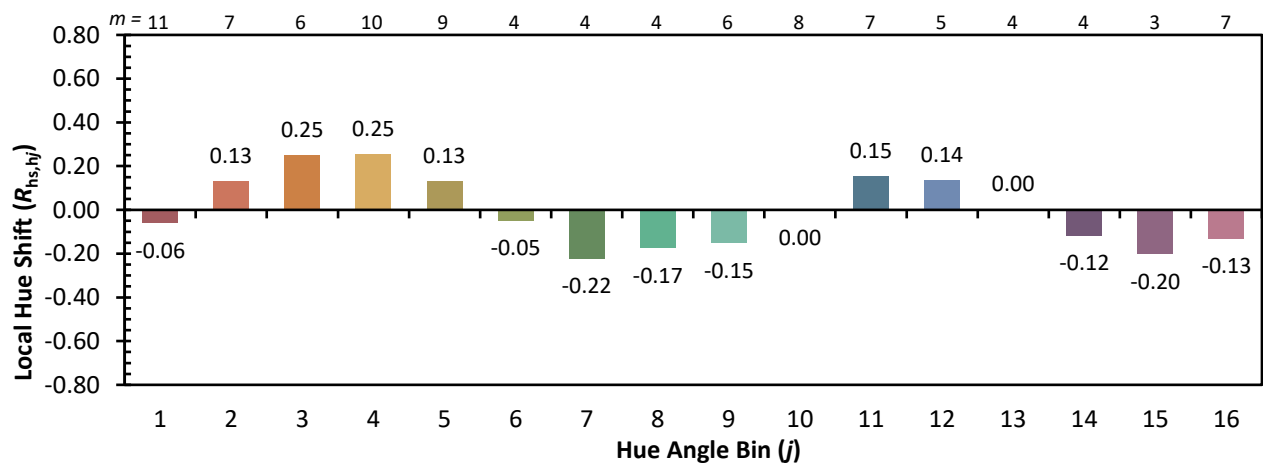
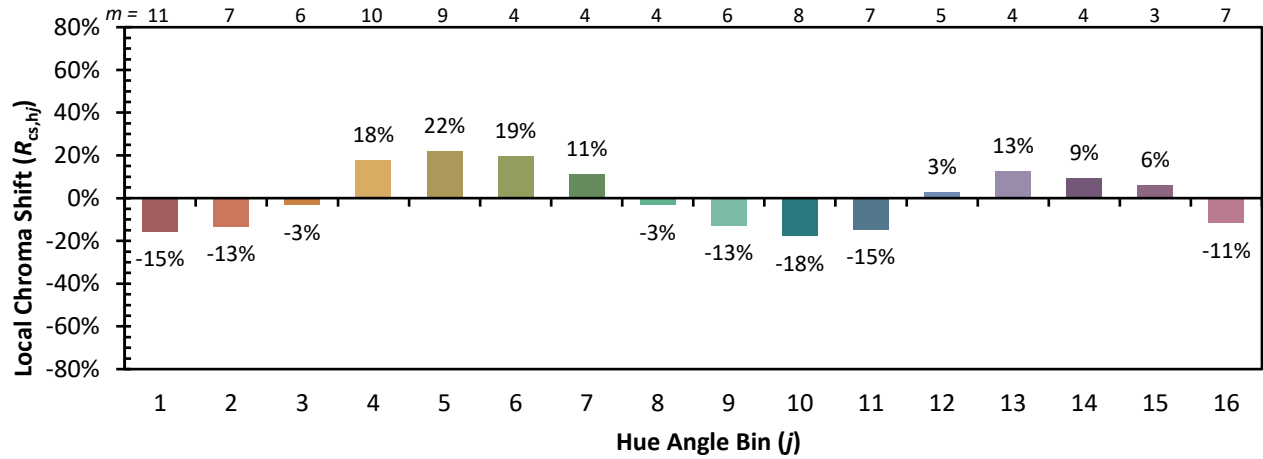


Individual Sample Fidelity Index ($R_{f,i}$)

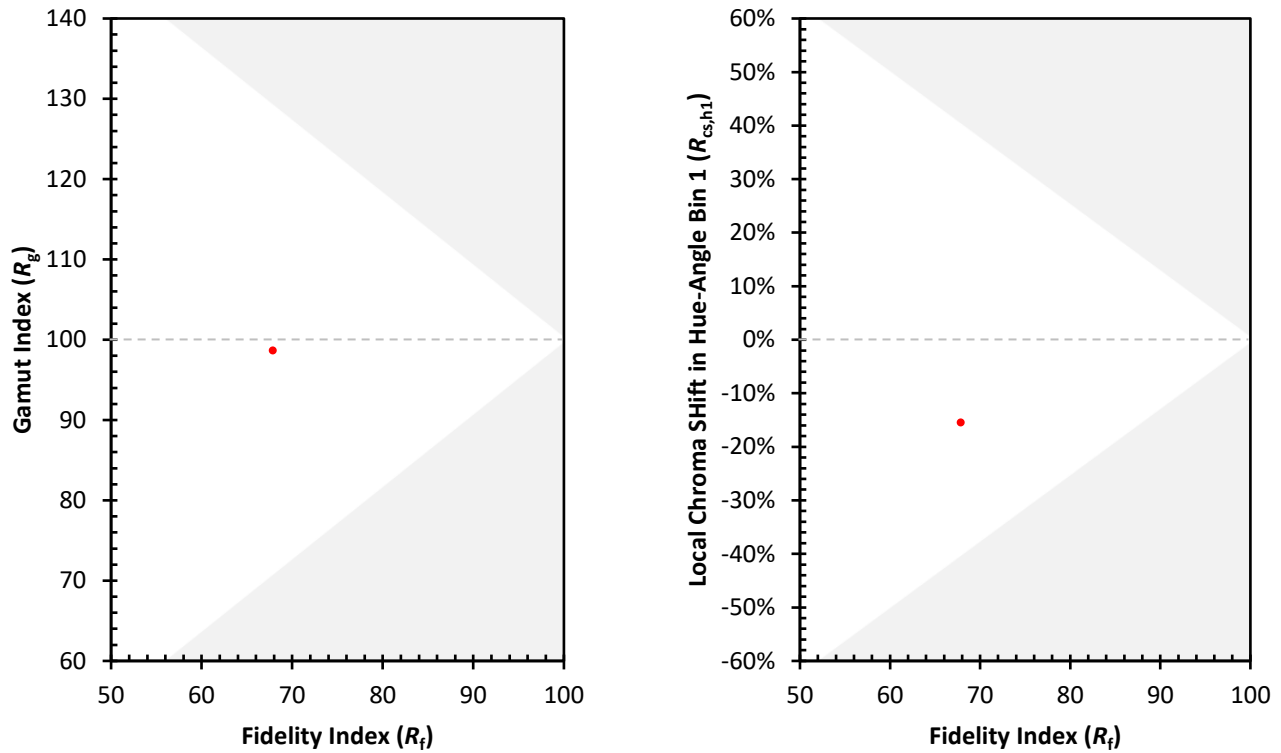
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 92
CES08 = 41	CES33 = 45	CES58 = 59	CES83 = 82
CES09 = 29	CES34 = 67	CES59 = 85	CES84 = 92
CES10 = 77	CES35 = 84	CES60 = 86	CES85 = 87
CES11 = 60	CES36 = 68	CES61 = 86	CES86 = 60
CES12 = 66	CES37 = 77	CES62 = 59	CES87 = 79
CES13 = 44	CES38 = 40	CES63 = 66	CES88 = 70
CES14 = 74	CES39 = 88	CES64 = 69	CES89 = 66
CES15 = 72	CES40 = 82	CES65 = 64	CES90 = 64
CES16 = 48	CES41 = 70	CES66 = 65	CES91 = 81
CES17 = 51	CES42 = 76	CES67 = 64	CES92 = 69
CES18 = 57	CES43 = 63	CES68 = 73	CES93 = 81
CES19 = 73	CES44 = 97	CES69 = 83	CES94 = 53
CES20 = 67	CES45 = 74	CES70 = 64	CES95 = 77
CES21 = 88	CES46 = 67	CES71 = 60	CES96 = 79
CES22 = 80	CES47 = 55	CES72 = 87	CES97 = 78
CES23 = 92	CES48 = 42	CES73 = 57	CES98 = 69
CES24 = 92	CES49 = 65	CES74 = 84	CES99 = 60
CES25 = 73	CES50 = 74	CES75 = 60	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)