

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: P1067938

Luminaire Tested: **NAV-SA6B-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067938
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6B-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19287.2 lumens
Efficiency: N/A
Efficacy: 91.4 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): 211
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



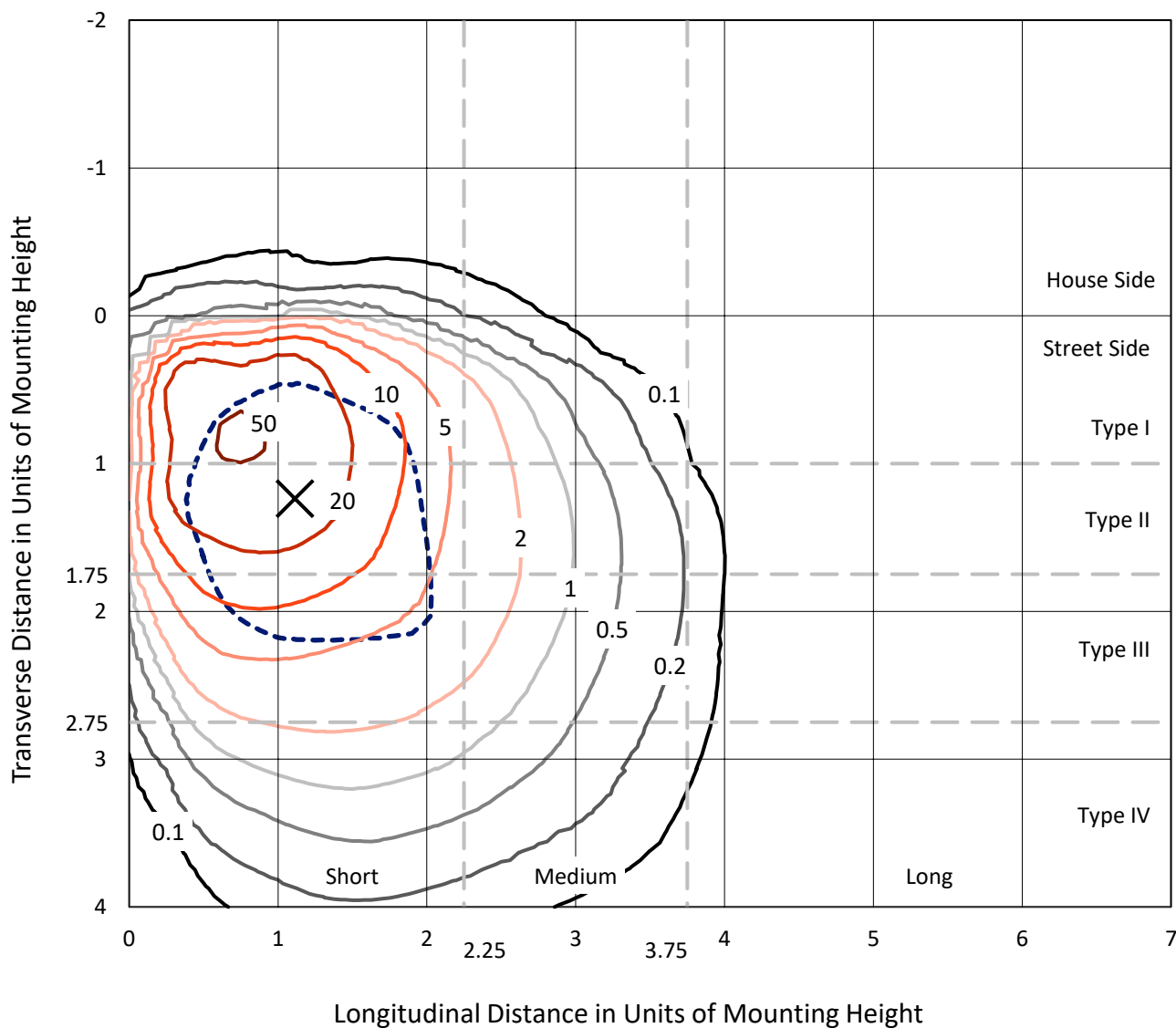
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

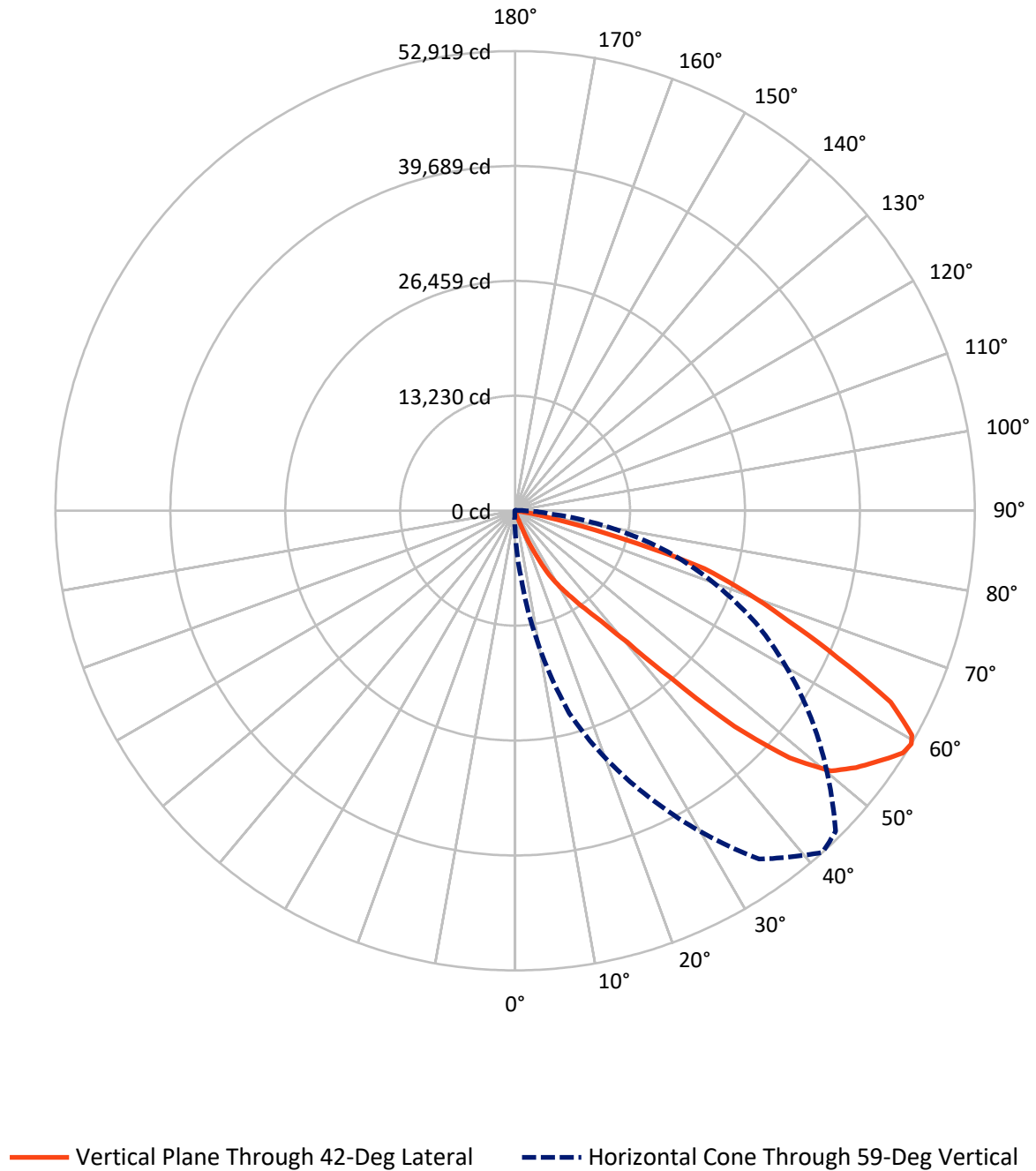


Based on 15 foot mounting height. Maximum calculated value = 57.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	92.9	0.0	92.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	19194.2	0.0	19194.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	19287.2	0.0	19287.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.0
10°-20°	28.1	0.1
20°-30°	359.8	1.9
30°-40°	1212.9	6.3
40°-50°	3663.5	19.0
50°-60°	6467.0	33.5
60°-70°	5694.3	29.5
70°-80°	1812.5	9.4
80°-90°	43.4	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°	19287.2	100.0
0°-180°	19287.2	100.0



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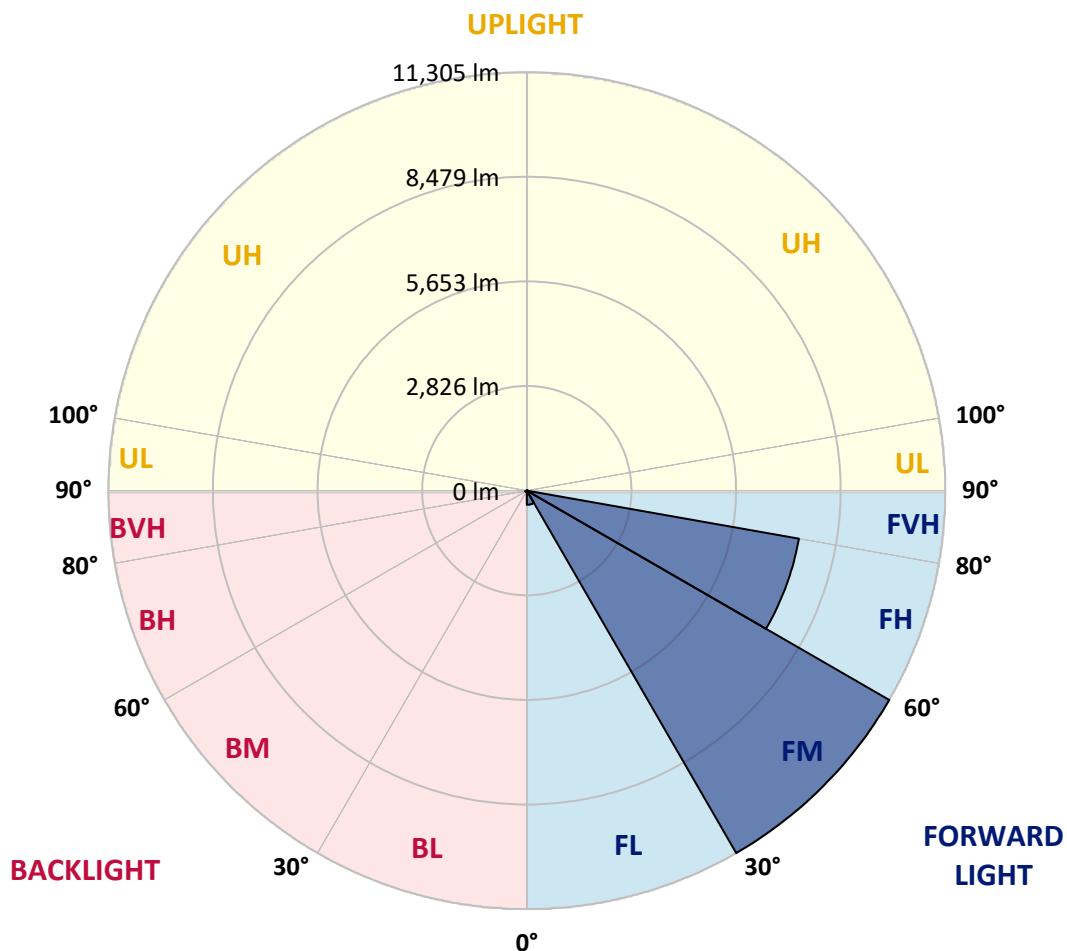
CATALOG NUMBER: NAV-SA6B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.2	2.0			
FM	(30°-60°)	11305.5	58.6			
FH	(60°-80°)	7464.3	38.7			G3/7500
FVH	(80°-90°)	41.3	0.2			G1/100
BL	(0°-30°)	10.4	0.1	B0/110		
BM	(30°-60°)	38.0	0.2	B0/220		
BH	(60°-80°)	42.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	84.7	84.7	78.6	72.6	66.5	60.5	60.5	60.5	54.4	54.4	48.4
5°	96.8	96.8	90.7	84.7	84.7	78.6	78.6	72.6	66.5	66.5	60.5
7.5°	102.8	102.8	102.8	102.8	96.8	96.8	96.8	90.7	84.7	78.6	72.6
10°	108.8	114.9	120.9	120.9	120.9	120.9	120.9	114.9	102.8	96.8	84.7
12.5°	120.9	127.0	139.1	151.2	151.2	157.2	151.2	145.1	133.0	114.9	96.8
15°	133.0	145.1	163.3	187.5	211.7	217.7	217.7	199.6	175.4	139.1	114.9
17.5°	151.2	169.3	217.7	296.3	381.0	447.5	447.5	399.1	278.2	181.4	133.0
20°	163.3	199.6	350.7	713.6	1088.5	1366.7	1312.2	1161.1	622.9	284.2	145.1
22.5°	181.4	254.0	743.8	1874.6	2902.6	3410.6	3289.7	2497.5	1396.9	508.0	175.4
25°	205.6	368.9	1475.5	3513.4	5394.1	5944.4	5865.8	4662.4	2545.9	852.7	223.7
27.5°	254.0	544.2	2364.4	5327.6	7958.1	8429.8	8399.5	6827.3	4069.7	1372.7	290.3
30°	320.5	792.2	3507.4	7238.5	9657.3	10135.1	9983.9	8411.6	5490.8	2098.4	374.9
32.5°	399.1	1106.6	4541.4	8647.5	11223.6	11852.5	11671.0	9790.4	6633.8	2715.2	556.3
35°	520.1	1415.0	5563.4	9893.2	13031.7	13829.9	13527.5	11211.5	7619.4	3410.6	671.2
37.5°	580.5	1596.5	6500.7	11247.7	15063.5	16152.0	15922.2	13007.5	8623.3	4299.5	822.4
40°	586.6	1814.2	7474.3	13013.5	17935.9	19877.1	19465.9	16091.5	10491.8	5442.5	1058.3
42.5°	604.7	2140.7	8738.2	16025.0	23577.9	26365.7	25900.0	21763.8	14730.9	7734.3	1499.7
45°	689.4	2757.5	11314.3	21654.9	31324.4	35412.3	34874.1	29667.4	20651.1	12046.0	2558.0
47.5°	985.7	4148.4	15831.5	27732.3	39246.2	42505.6	42372.6	35896.0	26014.9	16466.5	4335.8
50°	1584.4	6367.7	20971.6	32842.2	44289.5	47089.3	46756.8	38496.3	29074.8	19484.0	5557.4
52.5°	2116.5	8490.2	24200.8	34722.9	45795.3	49133.3	48728.1	39445.7	29879.1	20372.9	5896.0
55°	2249.5	9258.2	25162.3	35303.4	46793.0	50862.8	50276.2	40080.7	29981.9	19738.0	5333.6
57.5°	2183.0	8532.6	24539.4	35871.8	48183.9	52640.7	51860.6	41320.3	30326.6	18661.6	4438.6
59°	2068.1	7637.6	24152.4	36325.4	48951.9	52918.8	52187.1	41592.5	30556.4	18171.8	3894.4
60°	1935.1	7032.9	23850.1	36621.7	48903.5	52483.4	51727.5	41465.5	30647.1	17748.5	3634.4
62.5°	1493.7	5611.8	23414.7	36410.0	45849.7	48510.4	48081.1	38357.2	29316.7	16393.9	2866.4
65°	1161.1	4293.5	21818.2	32473.3	39016.4	40806.3	40673.3	32479.4	24672.5	14132.2	2068.1
67.5°	919.2	3132.4	18449.9	26299.2	31390.9	33936.7	33840.0	26365.7	18728.1	10800.3	1487.6
70°	749.8	2231.4	12650.7	19828.7	25107.9	28312.9	28173.8	21219.5	13878.3	6851.4	1082.4
72.5°	635.0	1427.1	7673.9	14948.6	20953.5	22785.8	22380.6	17119.6	10092.7	3731.1	858.7
75°	538.2	876.8	3803.7	9318.7	12481.4	12469.3	12064.1	9064.7	5418.3	1826.2	683.3
77.5°	435.4	616.8	1493.7	2558.0	3936.7	4874.0	4795.4	3211.0	1620.6	532.2	423.3
80°	284.2	290.3	399.1	701.5	1082.4	1197.3	1360.6	979.6	471.7	254.0	175.4
82.5°	127.0	139.1	181.4	229.8	229.8	211.7	187.5	139.1	102.8	84.7	42.3
85°	30.2	42.3	30.2	36.3	30.2	24.2	24.2	12.1	0.0	0.0	0.0
87.5°	6.0	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°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	48.4	48.4	48.4	42.3	42.3	42.3	36.3	36.3	36.3	30.2	30.2
5°	60.5	54.4	48.4	48.4	42.3	42.3	36.3	30.2	30.2	30.2	24.2
7.5°	66.5	60.5	54.4	48.4	42.3	36.3	36.3	30.2	24.2	24.2	24.2
10°	78.6	72.6	60.5	48.4	42.3	36.3	30.2	30.2	24.2	18.1	18.1
12.5°	90.7	78.6	66.5	54.4	42.3	36.3	30.2	30.2	24.2	18.1	12.1
15°	102.8	90.7	72.6	54.4	42.3	36.3	30.2	30.2	18.1	12.1	6.0
17.5°	114.9	96.8	72.6	60.5	42.3	36.3	30.2	24.2	12.1	6.0	0.0
20°	120.9	102.8	78.6	60.5	42.3	36.3	30.2	18.1	6.0	0.0	0.0
22.5°	133.0	114.9	84.7	60.5	42.3	30.2	18.1	6.0	0.0	0.0	0.0
25°	157.2	120.9	84.7	60.5	42.3	30.2	12.1	0.0	0.0	0.0	0.0
27.5°	175.4	133.0	84.7	60.5	42.3	24.2	6.0	0.0	0.0	0.0	0.0
30°	205.6	145.1	90.7	60.5	42.3	18.1	6.0	0.0	0.0	0.0	0.0
32.5°	254.0	157.2	90.7	60.5	36.3	18.1	0.0	0.0	0.0	0.0	0.0
35°	308.4	181.4	90.7	60.5	36.3	18.1	0.0	0.0	0.0	0.0	0.0
37.5°	314.5	193.5	90.7	60.5	36.3	12.1	0.0	0.0	0.0	0.0	0.0
40°	326.5	181.4	96.8	60.5	36.3	12.1	0.0	0.0	0.0	0.0	0.0
42.5°	374.9	169.3	102.8	60.5	36.3	12.1	0.0	0.0	0.0	0.0	0.0
45°	556.3	175.4	102.8	66.5	36.3	18.1	0.0	0.0	0.0	0.0	0.0
47.5°	967.5	181.4	96.8	66.5	36.3	18.1	0.0	0.0	0.0	0.0	0.0
50°	1239.7	211.7	96.8	72.6	42.3	12.1	0.0	0.0	0.0	0.0	0.0
52.5°	1318.3	247.9	96.8	78.6	54.4	6.0	0.0	0.0	0.0	0.0	0.0
55°	1282.0	290.3	102.8	84.7	66.5	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1185.2	314.5	108.8	90.7	72.6	0.0	0.0	0.0	0.0	0.0	0.0
59°	1082.4	332.6	127.0	96.8	72.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	997.8	350.7	133.0	102.8	72.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	804.3	374.9	145.1	120.9	60.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	701.5	393.1	151.2	133.0	54.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	641.0	405.2	163.3	139.1	48.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	592.6	399.1	175.4	133.0	42.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	538.2	381.0	211.7	120.9	36.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	483.8	344.7	229.8	108.8	24.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	350.7	290.3	211.7	96.8	12.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	151.2	157.2	151.2	72.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.2	36.3	30.2	18.1	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°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	30.2	30.2	30.2	30.2	36.3	36.3	48.4	60.5	72.6	78.6	78.6
5°	24.2	24.2	24.2	24.2	24.2	30.2	36.3	48.4	66.5	72.6	72.6
7.5°	18.1	18.1	18.1	18.1	18.1	18.1	30.2	42.3	60.5	66.5	72.6
10°	18.1	12.1	12.1	6.0	6.0	12.1	18.1	36.3	54.4	60.5	66.5
12.5°	12.1	6.0	6.0	0.0	0.0	6.0	12.1	30.2	48.4	54.4	60.5
15°	6.0	0.0	0.0	0.0	0.0	0.0	6.0	24.2	42.3	48.4	60.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	36.3	48.4	54.4
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	30.2	42.3	48.4
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	24.2	36.3	42.3
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	24.2	30.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	18.1	24.2
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	18.1	24.2
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1	18.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1	18.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1	12.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0
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°	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.5°	84.7	84.7	78.6	72.6	72.6	72.6	78.6	84.7	84.7	84.7
5°	78.6	78.6	72.6	72.6	72.6	72.6	78.6	90.7	96.8	96.8
7.5°	78.6	78.6	72.6	72.6	72.6	72.6	78.6	90.7	96.8	102.8
10°	72.6	72.6	72.6	72.6	66.5	72.6	78.6	90.7	108.8	108.8
12.5°	72.6	72.6	72.6	72.6	66.5	72.6	84.7	96.8	114.9	120.9
15°	72.6	72.6	72.6	66.5	66.5	72.6	84.7	102.8	120.9	133.0
17.5°	66.5	72.6	72.6	66.5	66.5	72.6	84.7	102.8	133.0	151.2
20°	60.5	66.5	72.6	66.5	66.5	66.5	84.7	102.8	139.1	163.3
22.5°	54.4	60.5	66.5	66.5	60.5	66.5	84.7	108.8	151.2	181.4
25°	48.4	54.4	54.4	60.5	60.5	66.5	84.7	108.8	157.2	205.6
27.5°	36.3	42.3	48.4	54.4	54.4	66.5	84.7	114.9	169.3	254.0
30°	30.2	36.3	42.3	48.4	54.4	66.5	84.7	114.9	181.4	320.5
32.5°	30.2	36.3	42.3	48.4	54.4	60.5	84.7	120.9	199.6	399.1
35°	24.2	30.2	36.3	48.4	48.4	60.5	84.7	120.9	217.7	520.1
37.5°	24.2	30.2	36.3	48.4	48.4	60.5	84.7	120.9	266.1	580.5
40°	18.1	24.2	30.2	48.4	48.4	60.5	90.7	127.0	272.1	586.6
42.5°	18.1	24.2	30.2	42.3	48.4	60.5	90.7	127.0	254.0	604.7
45°	18.1	24.2	30.2	48.4	54.4	66.5	90.7	133.0	247.9	689.4
47.5°	18.1	24.2	30.2	48.4	60.5	66.5	90.7	133.0	254.0	985.7
50°	18.1	24.2	30.2	48.4	66.5	66.5	90.7	133.0	278.2	1584.4
52.5°	12.1	18.1	24.2	42.3	54.4	72.6	96.8	127.0	296.3	2116.5
55°	12.1	12.1	18.1	36.3	48.4	78.6	102.8	127.0	344.7	2249.5
57.5°	12.1	12.1	18.1	30.2	42.3	84.7	108.8	127.0	399.1	2183.0
59°	12.1	12.1	12.1	30.2	36.3	84.7	108.8	133.0	405.2	2068.1
60°	12.1	12.1	12.1	24.2	36.3	84.7	114.9	139.1	411.2	1935.1
62.5°	6.0	6.0	6.0	24.2	30.2	84.7	127.0	169.3	423.3	1493.7
65°	12.1	12.1	6.0	18.1	30.2	72.6	145.1	181.4	429.3	1161.1
67.5°	12.1	12.1	12.1	24.2	30.2	72.6	151.2	187.5	429.3	919.2
70°	12.1	12.1	12.1	24.2	36.3	72.6	151.2	193.5	423.3	749.8
72.5°	12.1	12.1	12.1	24.2	36.3	66.5	139.1	199.6	405.2	635.0
75°	12.1	12.1	12.1	18.1	30.2	60.5	133.0	217.7	368.9	538.2
77.5°	12.1	12.1	12.1	12.1	24.2	48.4	120.9	241.9	326.5	435.4
80°	18.1	12.1	12.1	12.1	18.1	42.3	114.9	235.8	272.1	284.2
82.5°	18.1	12.1	12.1	6.0	12.1	30.2	90.7	181.4	139.1	127.0
85°	12.1	12.1	12.1	6.0	6.0	18.1	42.3	54.4	42.3	30.2
87.5°	12.1	12.1	12.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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: SP1-2407-184-3

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

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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 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-3

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	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			

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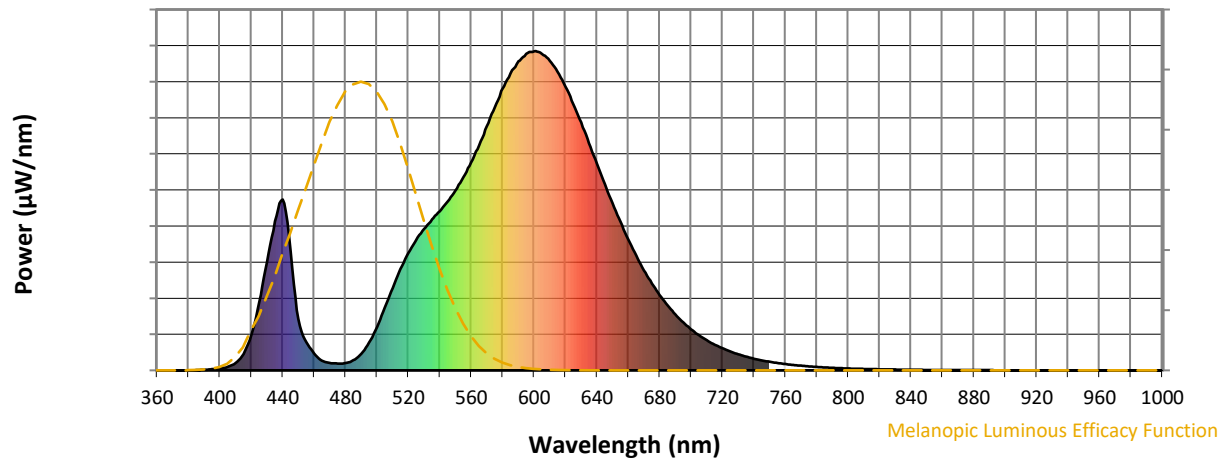
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.02

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			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

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	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			

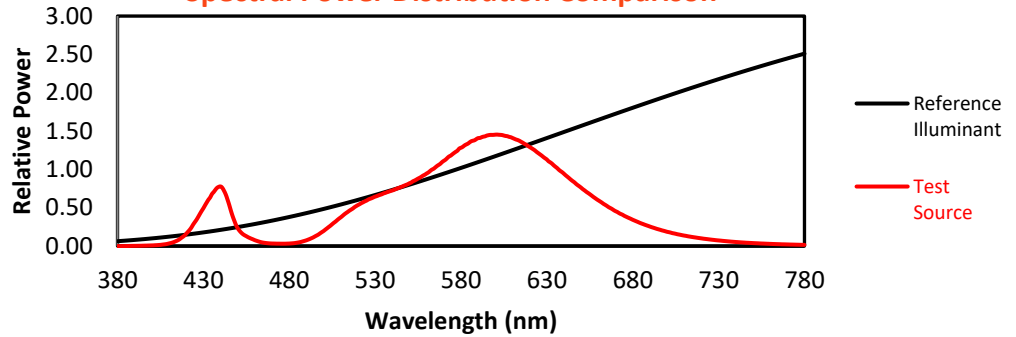
REPORT NUMBER: SP1-2407-184-3

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

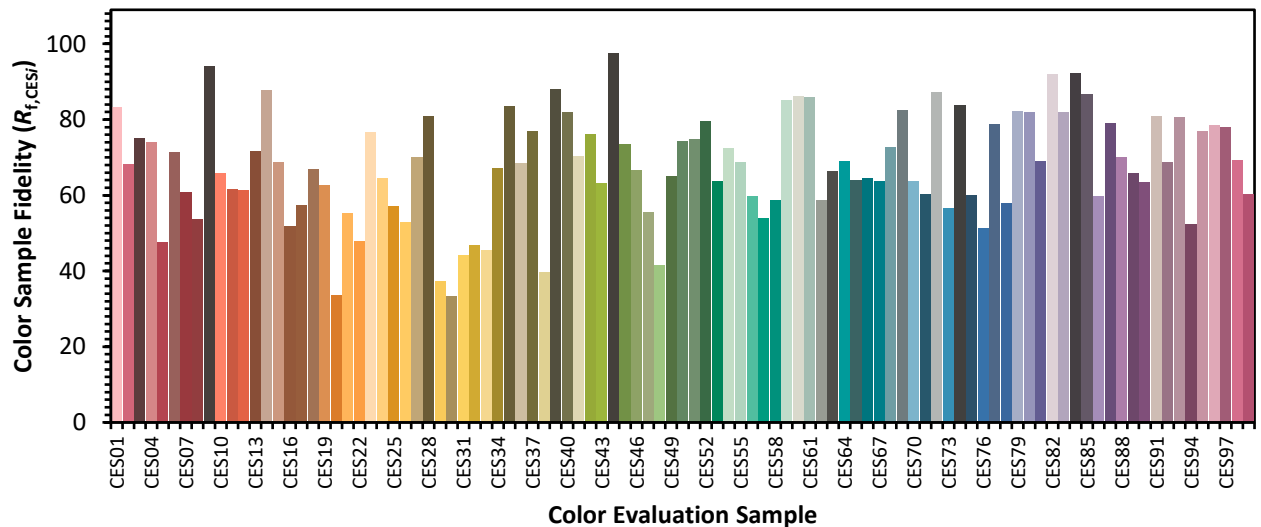


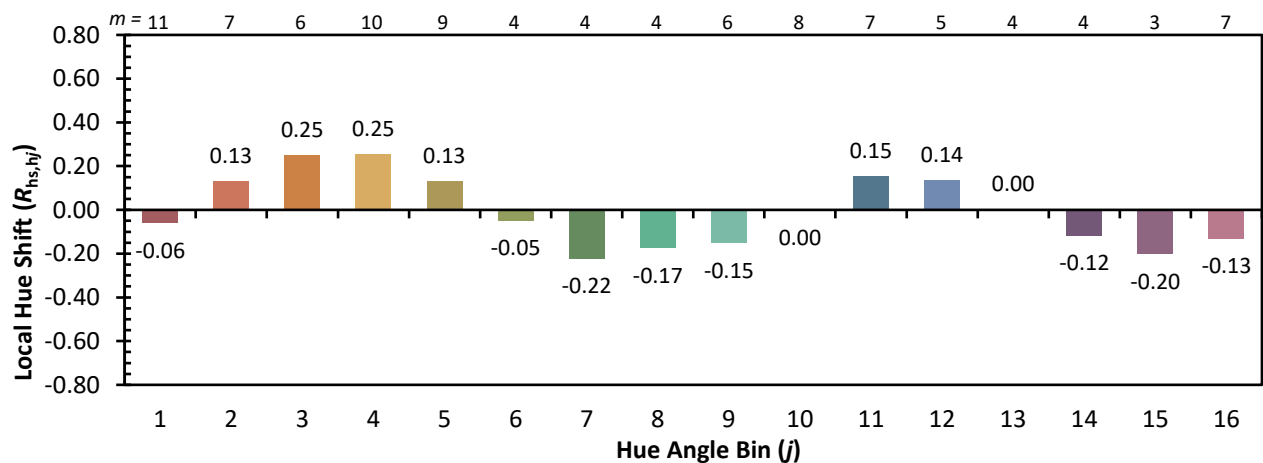
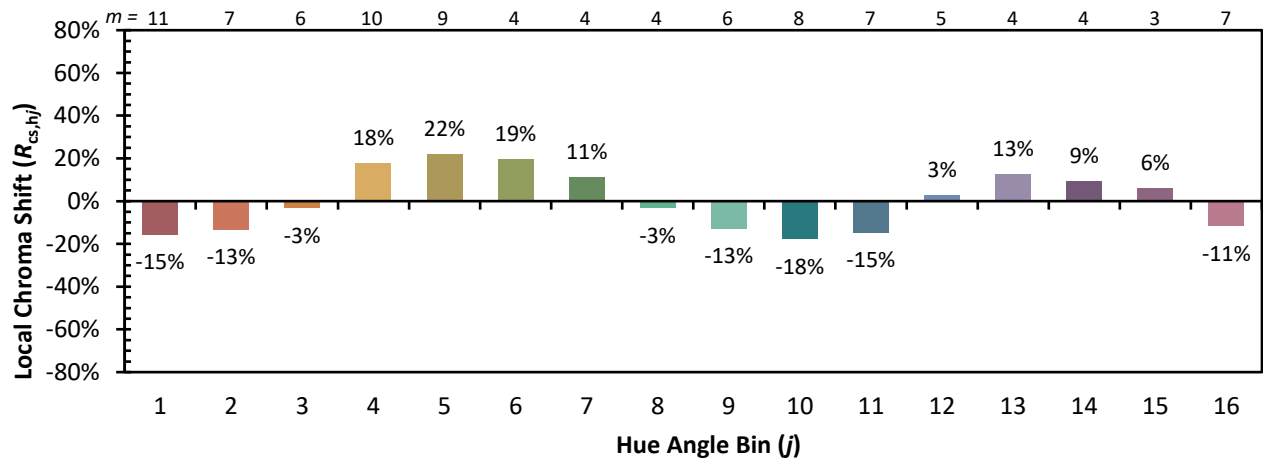
Color Vector Graphics



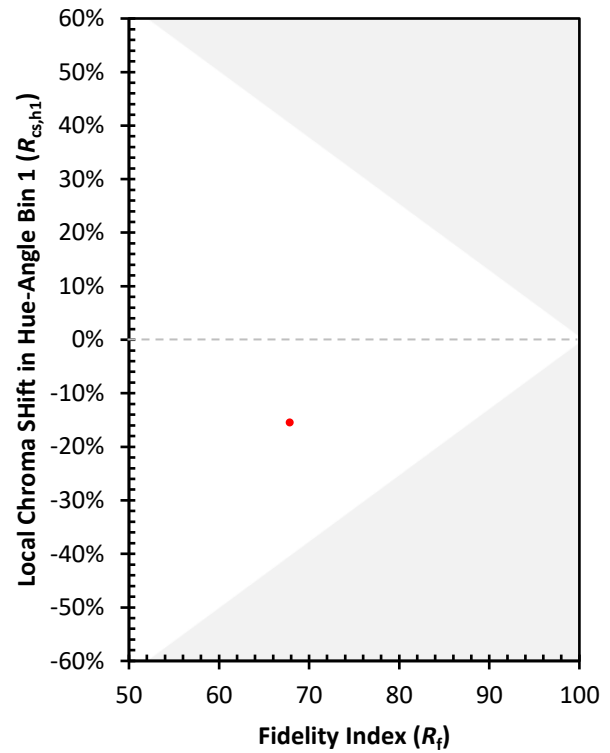
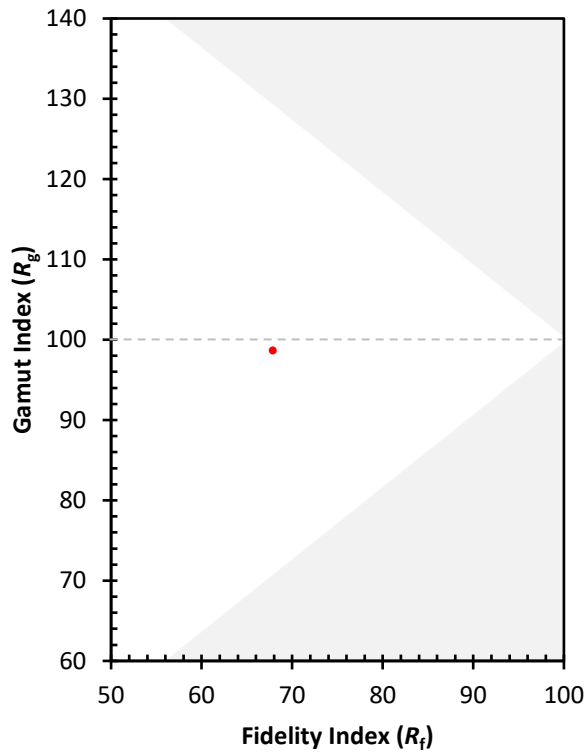
Individual Sample Fidelity Index ($R_{f,i}$)

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)