

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: P1067923

Luminaire Tested: **NAV-SA2C-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067923
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2C-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8070.8 lumens
Efficiency: N/A
Efficacy: 83.9 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): 96.2
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

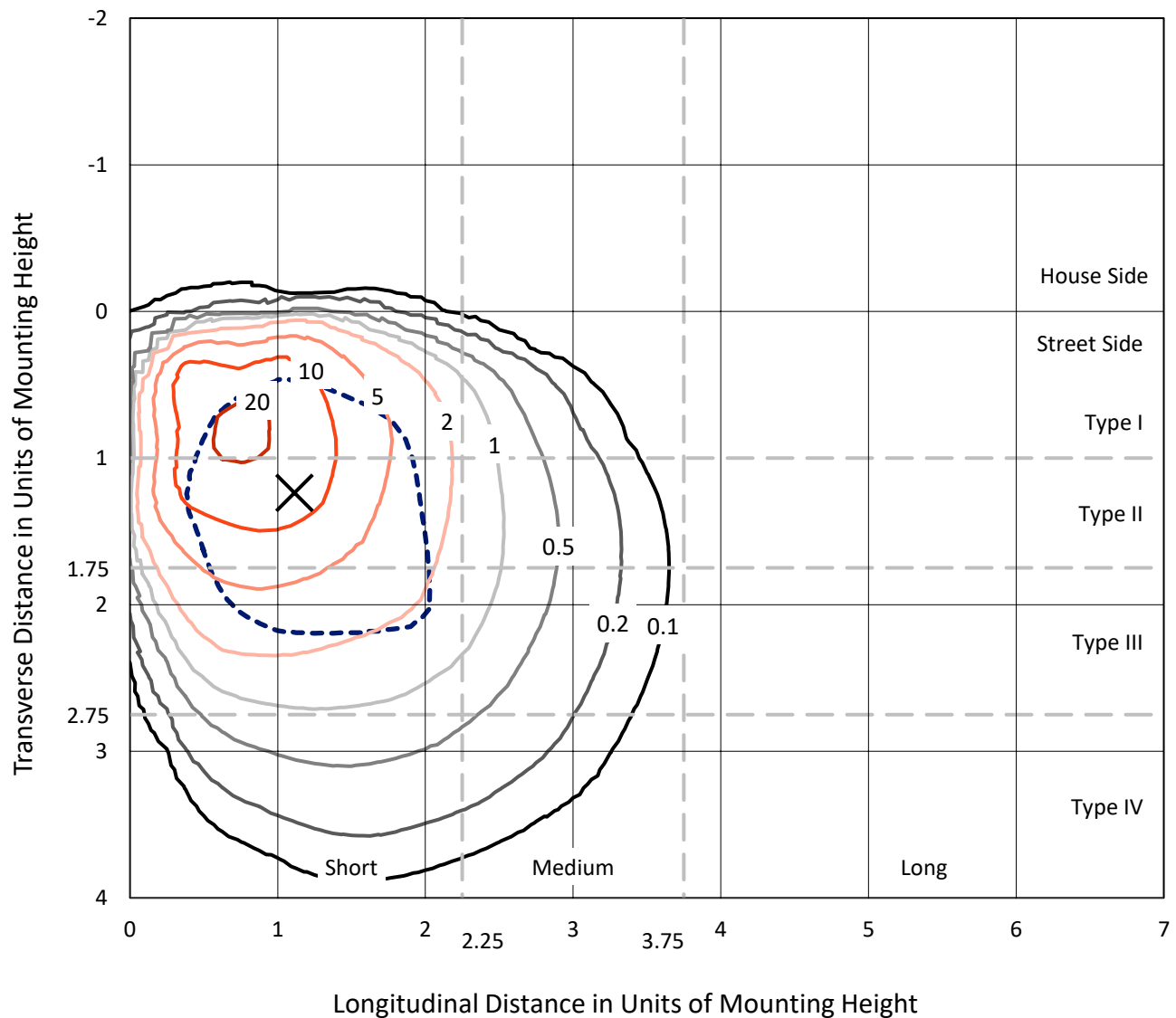


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

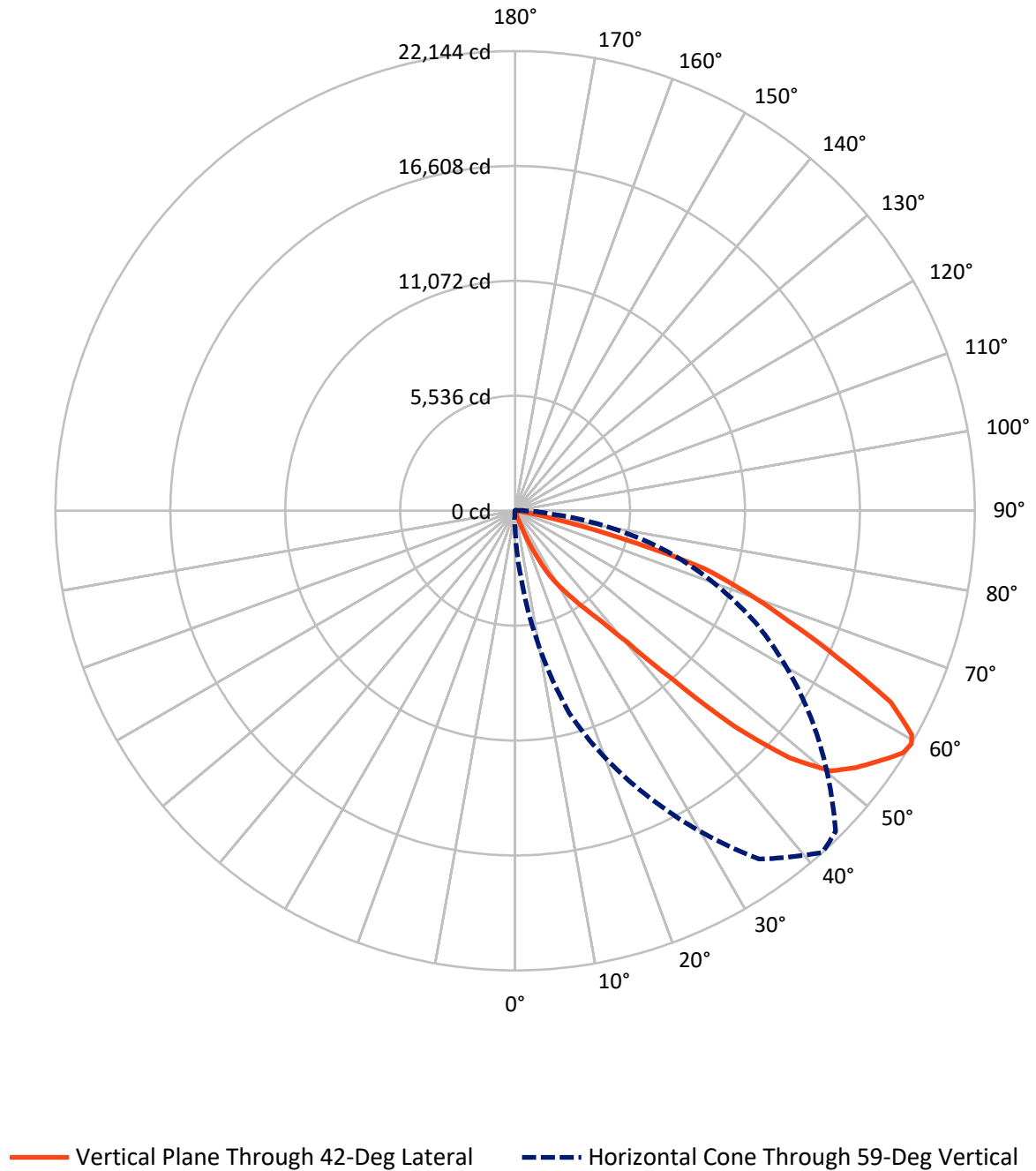


Based on 15 foot mounting height. Maximum calculated value = 24 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.9	0.0	38.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	8032.0	0.0	8032.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	8070.8	0.0	8070.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.0
10°-20°	11.8	0.1
20°-30°	150.5	1.9
30°-40°	507.6	6.3
40°-50°	1533.0	19.0
50°-60°	2706.2	33.5
60°-70°	2382.8	29.5
70°-80°	758.5	9.4
80°-90°	18.1	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°	8070.8	100.0
0°-180°	8070.8	100.0



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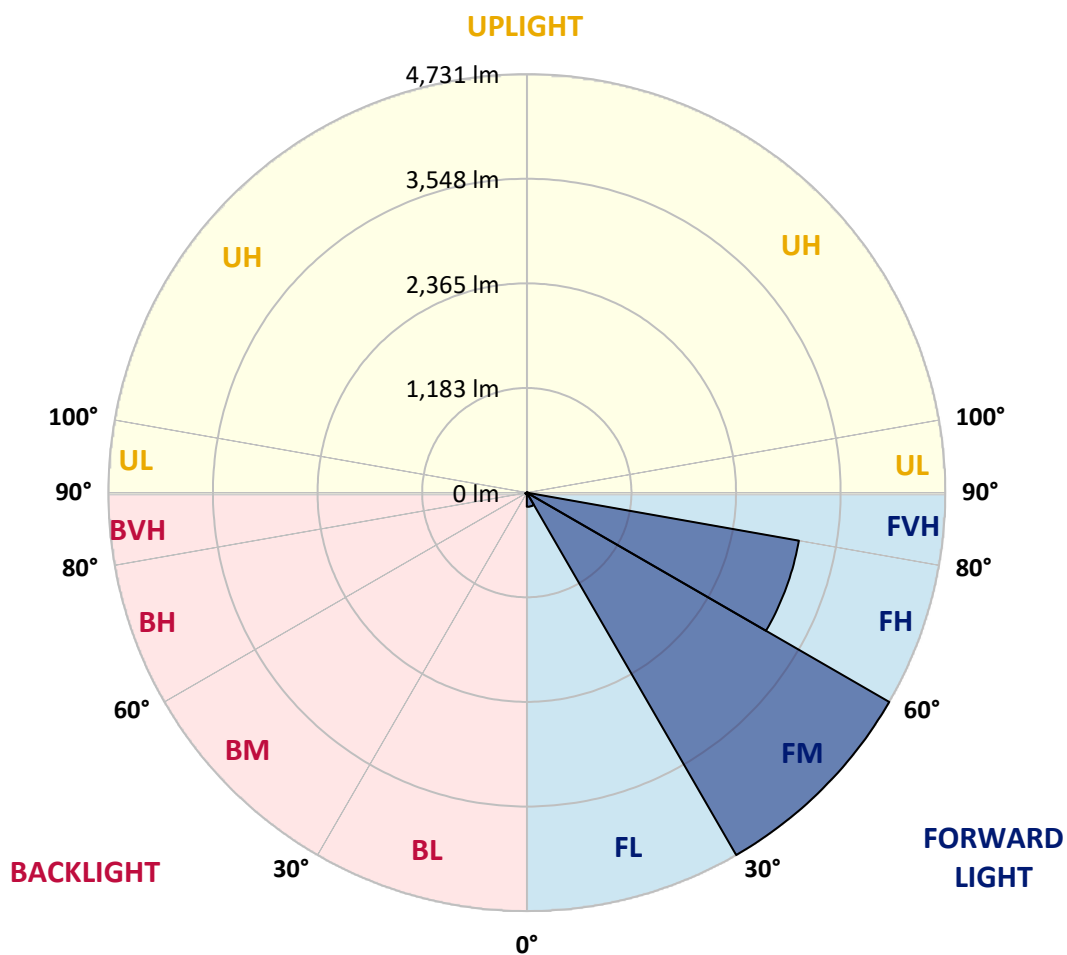
CATALOG NUMBER: NAV-SA2C-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.3	2.0			
FM	(30°-60°)	4730.9	58.6			
FH	(60°-80°)	3123.5	38.7			G2/5000
FVH	(80°-90°)	17.3	0.2			G1/100
BL	(0°-30°)	4.3	0.1	B0/110		
BM	(30°-60°)	15.9	0.2	B0/220		
BH	(60°-80°)	17.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	35.4	35.4	32.9	30.4	27.8	25.3	25.3	25.3	22.8	22.8	20.2
5°	40.5	40.5	38.0	35.4	35.4	32.9	32.9	30.4	27.8	27.8	25.3
7.5°	43.0	43.0	43.0	43.0	40.5	40.5	40.5	38.0	35.4	32.9	30.4
10°	45.5	48.1	50.6	50.6	50.6	50.6	50.6	48.1	43.0	40.5	35.4
12.5°	50.6	53.1	58.2	63.3	63.3	65.8	63.3	60.7	55.7	48.1	40.5
15°	55.7	60.7	68.3	78.4	88.6	91.1	91.1	83.5	73.4	58.2	48.1
17.5°	63.3	70.9	91.1	124.0	159.4	187.3	187.3	167.0	116.4	75.9	55.7
20°	68.3	83.5	146.8	298.6	455.5	571.9	549.1	485.9	260.6	118.9	60.7
22.5°	75.9	106.3	311.2	784.4	1214.6	1427.2	1376.6	1045.1	584.5	212.6	73.4
25°	86.0	154.4	617.4	1470.2	2257.2	2487.5	2454.6	1951.0	1065.3	356.8	93.6
27.5°	106.3	227.7	989.4	2229.4	3330.1	3527.5	3514.8	2856.9	1703.0	574.4	121.5
30°	134.1	331.5	1467.7	3029.0	4041.2	4241.1	4177.8	3519.9	2297.7	878.1	156.9
32.5°	167.0	463.1	1900.4	3618.6	4696.6	4959.7	4883.8	4096.8	2775.9	1136.2	232.8
35°	217.6	592.1	2328.0	4139.9	5453.2	5787.2	5660.7	4691.5	3188.4	1427.2	280.9
37.5°	242.9	668.0	2720.3	4706.7	6303.4	6758.9	6662.7	5443.1	3608.5	1799.2	344.1
40°	245.5	759.1	3127.7	5445.6	7505.4	8317.7	8145.6	6733.6	4390.4	2277.4	442.8
42.5°	253.0	895.8	3656.5	6705.8	9866.3	11032.9	10838.0	9107.2	6164.2	3236.5	627.6
45°	288.5	1153.9	4734.5	9061.6	13107.9	14818.5	14593.3	12414.5	8641.6	5040.7	1070.4
47.5°	412.5	1735.9	6624.8	11604.8	16422.8	17786.7	17731.1	15020.9	10886.1	6890.5	1814.4
50°	663.0	2664.6	8775.7	13743.0	18533.2	19704.8	19565.7	16109.0	12166.5	8153.2	2325.5
52.5°	885.7	3552.8	10127.0	14530.0	19163.3	20560.1	20390.6	16506.3	12503.1	8525.2	2467.2
55°	941.3	3874.2	10529.3	14772.9	19580.8	21283.8	21038.4	16772.0	12546.1	8259.5	2231.9
57.5°	913.5	3570.5	10268.7	15010.8	20162.8	22027.8	21701.4	17290.8	12690.3	7809.1	1857.4
59°	865.4	3196.0	10106.7	15200.6	20484.2	22144.2	21838.0	17404.6	12786.5	7604.1	1629.6
60°	809.8	2942.9	9980.2	15324.6	20464.0	21962.0	21645.7	17351.5	12824.5	7427.0	1520.8
62.5°	625.0	2348.3	9798.0	15236.0	19186.1	20299.5	20119.8	16050.8	12267.8	6860.1	1199.4
65°	485.9	1796.6	9130.0	13588.7	16326.6	17075.7	17020.0	13591.2	10324.3	5913.7	865.4
67.5°	384.6	1310.8	7720.5	11005.0	13135.7	14201.0	14160.6	11032.9	7836.9	4519.4	622.5
70°	313.8	933.7	5293.8	8297.4	10506.5	11847.7	11789.5	8879.4	5807.4	2867.0	453.0
72.5°	265.7	597.2	3211.2	6255.3	8768.1	9534.8	9365.3	7163.8	4223.4	1561.3	359.3
75°	225.2	366.9	1591.7	3899.5	5222.9	5217.8	5048.3	3793.2	2267.3	764.2	285.9
77.5°	182.2	258.1	625.0	1070.4	1647.3	2039.6	2006.7	1343.7	678.2	222.7	177.1
80°	118.9	121.5	167.0	293.5	453.0	501.0	569.4	409.9	197.4	106.3	73.4
82.5°	53.1	58.2	75.9	96.2	96.2	88.6	78.4	58.2	43.0	35.4	17.7
85°	12.7	17.7	12.7	15.2	12.7	10.1	10.1	5.1	0.0	0.0	0.0
87.5°	2.5	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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	20.2	20.2	20.2	17.7	17.7	17.7	15.2	15.2	15.2	12.7	12.7
5°	25.3	22.8	20.2	20.2	17.7	17.7	15.2	12.7	12.7	12.7	10.1
7.5°	27.8	25.3	22.8	20.2	17.7	15.2	15.2	12.7	10.1	10.1	10.1
10°	32.9	30.4	25.3	20.2	17.7	15.2	12.7	12.7	10.1	7.6	7.6
12.5°	38.0	32.9	27.8	22.8	17.7	15.2	12.7	12.7	10.1	7.6	5.1
15°	43.0	38.0	30.4	22.8	17.7	15.2	12.7	12.7	7.6	5.1	2.5
17.5°	48.1	40.5	30.4	25.3	17.7	15.2	12.7	10.1	5.1	2.5	0.0
20°	50.6	43.0	32.9	25.3	17.7	15.2	12.7	7.6	2.5	0.0	0.0
22.5°	55.7	48.1	35.4	25.3	17.7	12.7	7.6	2.5	0.0	0.0	0.0
25°	65.8	50.6	35.4	25.3	17.7	12.7	5.1	0.0	0.0	0.0	0.0
27.5°	73.4	55.7	35.4	25.3	17.7	10.1	2.5	0.0	0.0	0.0	0.0
30°	86.0	60.7	38.0	25.3	17.7	7.6	2.5	0.0	0.0	0.0	0.0
32.5°	106.3	65.8	38.0	25.3	15.2	7.6	0.0	0.0	0.0	0.0	0.0
35°	129.1	75.9	38.0	25.3	15.2	7.6	0.0	0.0	0.0	0.0	0.0
37.5°	131.6	81.0	38.0	25.3	15.2	5.1	0.0	0.0	0.0	0.0	0.0
40°	136.6	75.9	40.5	25.3	15.2	5.1	0.0	0.0	0.0	0.0	0.0
42.5°	156.9	70.9	43.0	25.3	15.2	5.1	0.0	0.0	0.0	0.0	0.0
45°	232.8	73.4	43.0	27.8	15.2	7.6	0.0	0.0	0.0	0.0	0.0
47.5°	404.9	75.9	40.5	27.8	15.2	7.6	0.0	0.0	0.0	0.0	0.0
50°	518.7	88.6	40.5	30.4	17.7	5.1	0.0	0.0	0.0	0.0	0.0
52.5°	551.6	103.7	40.5	32.9	22.8	2.5	0.0	0.0	0.0	0.0	0.0
55°	536.5	121.5	43.0	35.4	27.8	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	496.0	131.6	45.5	38.0	30.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	453.0	139.2	53.1	40.5	30.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	417.5	146.8	55.7	43.0	30.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	336.6	156.9	60.7	50.6	25.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	293.5	164.5	63.3	55.7	22.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	268.2	169.5	68.3	58.2	20.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	248.0	167.0	73.4	55.7	17.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	225.2	159.4	88.6	50.6	15.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	202.4	144.2	96.2	45.5	10.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	146.8	121.5	88.6	40.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.3	65.8	63.3	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.7	15.2	12.7	7.6	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	12.7	12.7	12.7	12.7	15.2	15.2	20.2	25.3	30.4	32.9	32.9
5°	10.1	10.1	10.1	10.1	10.1	12.7	15.2	20.2	27.8	30.4	30.4
7.5°	7.6	7.6	7.6	7.6	7.6	7.6	12.7	17.7	25.3	27.8	30.4
10°	7.6	5.1	5.1	2.5	2.5	5.1	7.6	15.2	22.8	25.3	27.8
12.5°	5.1	2.5	2.5	0.0	0.0	2.5	5.1	12.7	20.2	22.8	25.3
15°	2.5	0.0	0.0	0.0	0.0	0.0	2.5	10.1	17.7	20.2	25.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	15.2	20.2	22.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.7	17.7	20.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	10.1	15.2	17.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	10.1	12.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.6	10.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.6	10.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.6
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1	5.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
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°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
2.5°	35.4	35.4	32.9	30.4	30.4	30.4	32.9	35.4	35.4	35.4
5°	32.9	32.9	30.4	30.4	30.4	30.4	32.9	38.0	40.5	40.5
7.5°	32.9	32.9	30.4	30.4	30.4	30.4	32.9	38.0	40.5	43.0
10°	30.4	30.4	30.4	30.4	27.8	30.4	32.9	38.0	45.5	45.5
12.5°	30.4	30.4	30.4	30.4	27.8	30.4	35.4	40.5	48.1	50.6
15°	30.4	30.4	30.4	27.8	27.8	30.4	35.4	43.0	50.6	55.7
17.5°	27.8	30.4	30.4	27.8	27.8	30.4	35.4	43.0	55.7	63.3
20°	25.3	27.8	30.4	27.8	27.8	27.8	35.4	43.0	58.2	68.3
22.5°	22.8	25.3	27.8	27.8	25.3	27.8	35.4	45.5	63.3	75.9
25°	20.2	22.8	22.8	25.3	25.3	27.8	35.4	45.5	65.8	86.0
27.5°	15.2	17.7	20.2	22.8	22.8	27.8	35.4	48.1	70.9	106.3
30°	12.7	15.2	17.7	20.2	22.8	27.8	35.4	48.1	75.9	134.1
32.5°	12.7	15.2	17.7	20.2	22.8	25.3	35.4	50.6	83.5	167.0
35°	10.1	12.7	15.2	20.2	20.2	25.3	35.4	50.6	91.1	217.6
37.5°	10.1	12.7	15.2	20.2	20.2	25.3	35.4	50.6	111.3	242.9
40°	7.6	10.1	12.7	20.2	20.2	25.3	38.0	53.1	113.9	245.5
42.5°	7.6	10.1	12.7	17.7	20.2	25.3	38.0	53.1	106.3	253.0
45°	7.6	10.1	12.7	20.2	22.8	27.8	38.0	55.7	103.7	288.5
47.5°	7.6	10.1	12.7	20.2	25.3	27.8	38.0	55.7	106.3	412.5
50°	7.6	10.1	12.7	20.2	27.8	27.8	38.0	55.7	116.4	663.0
52.5°	5.1	7.6	10.1	17.7	22.8	30.4	40.5	53.1	124.0	885.7
55°	5.1	5.1	7.6	15.2	20.2	32.9	43.0	53.1	144.2	941.3
57.5°	5.1	5.1	7.6	12.7	17.7	35.4	45.5	53.1	167.0	913.5
59°	5.1	5.1	5.1	12.7	15.2	35.4	45.5	55.7	169.5	865.4
60°	5.1	5.1	5.1	10.1	15.2	35.4	48.1	58.2	172.1	809.8
62.5°	2.5	2.5	2.5	10.1	12.7	35.4	53.1	70.9	177.1	625.0
65°	5.1	5.1	2.5	7.6	12.7	30.4	60.7	75.9	179.7	485.9
67.5°	5.1	5.1	5.1	10.1	12.7	30.4	63.3	78.4	179.7	384.6
70°	5.1	5.1	5.1	10.1	15.2	30.4	63.3	81.0	177.1	313.8
72.5°	5.1	5.1	5.1	10.1	15.2	27.8	58.2	83.5	169.5	265.7
75°	5.1	5.1	5.1	7.6	12.7	25.3	55.7	91.1	154.4	225.2
77.5°	5.1	5.1	5.1	5.1	10.1	20.2	50.6	101.2	136.6	182.2
80°	7.6	5.1	5.1	5.1	7.6	17.7	48.1	98.7	113.9	118.9
82.5°	7.6	5.1	5.1	2.5	5.1	12.7	38.0	75.9	58.2	53.1
85°	5.1	5.1	5.1	2.5	2.5	7.6	17.7	22.8	17.7	12.7
87.5°	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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



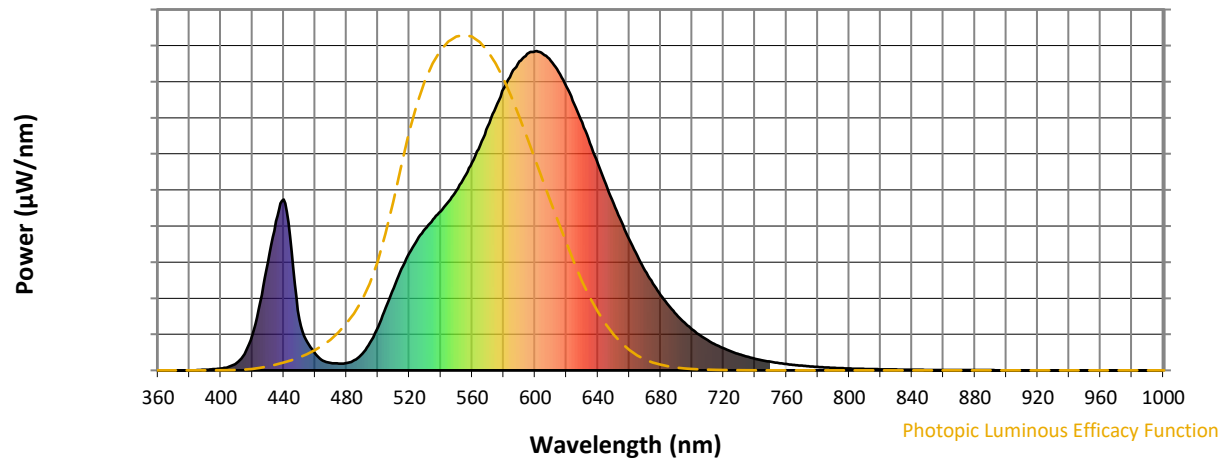
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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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			

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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 $\text{W}^\wedge/\text{nm}$	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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TM-30-18

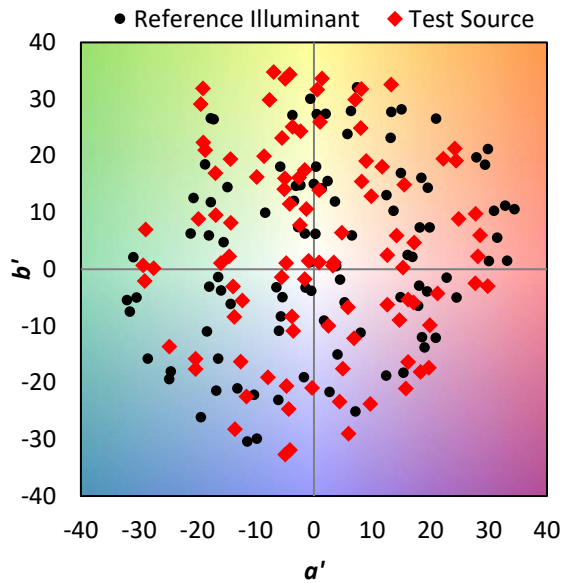
Summary

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

Spectral Power Distribution Comparison

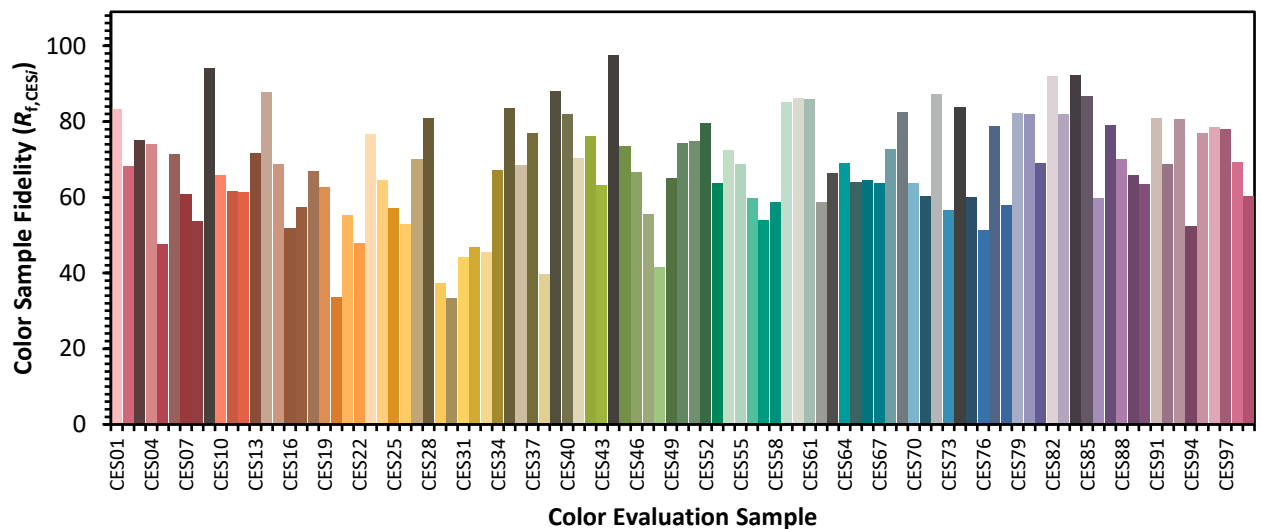


Color Vector Graphics

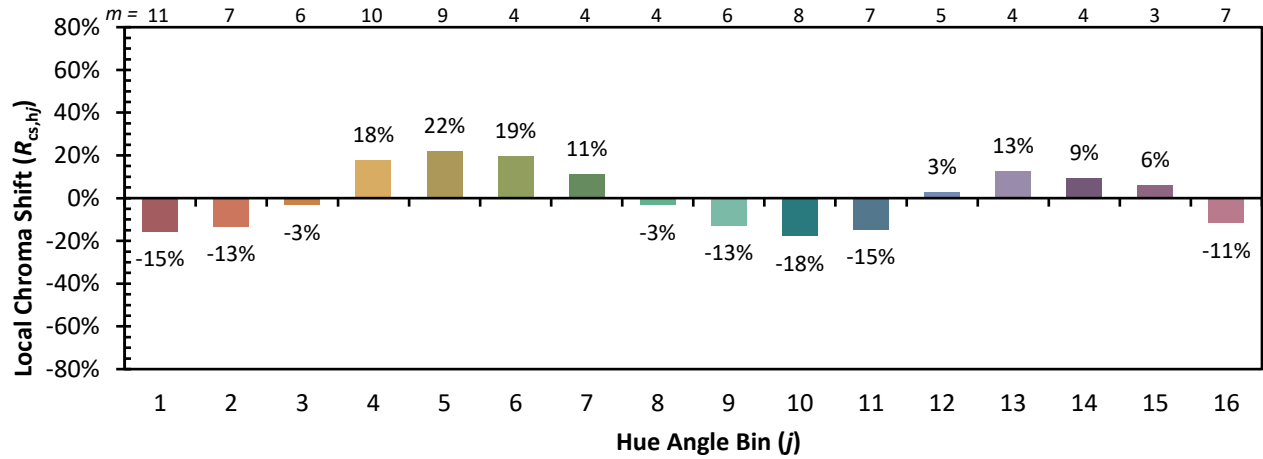


Individual Sample Fidelity Index ($R_{f,i}$)

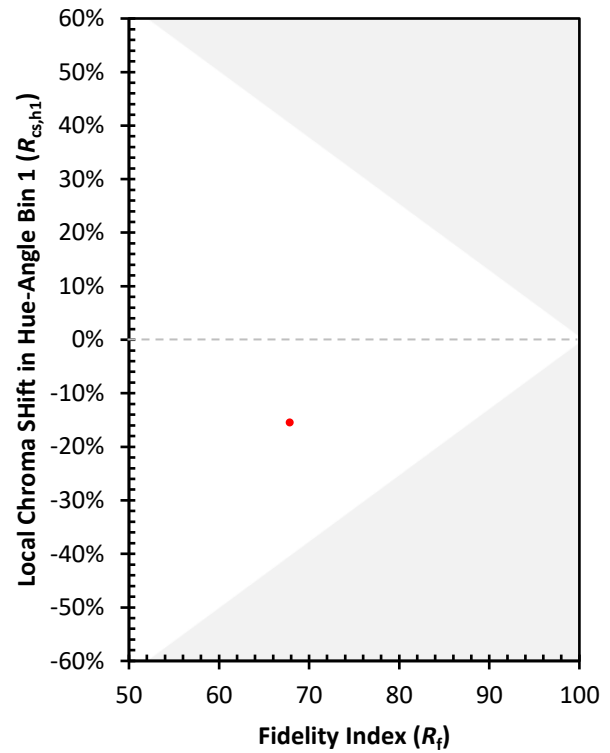
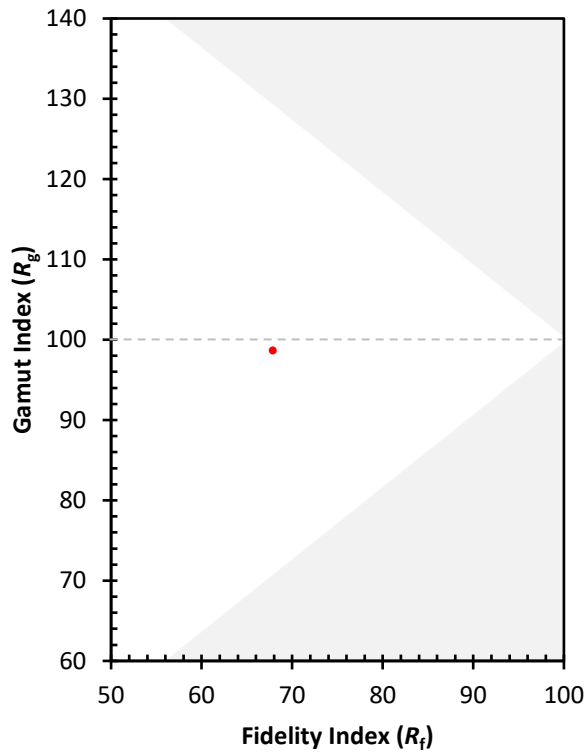
CES01 = 86	CES26 = 53	CES51 = 75	CES76 = 51
CES02 = 63	CES27 = 70	CES52 = 80	CES77 = 79
CES03 = 31	CES28 = 81	CES53 = 64	CES78 = 58
CES04 = 71	CES29 = 37	CES54 = 73	CES79 = 82
CES05 = 50	CES30 = 33	CES55 = 69	CES80 = 82
CES06 = 52	CES31 = 44	CES56 = 60	CES81 = 69
CES07 = 42	CES32 = 47	CES57 = 54	CES82 = 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)