

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: P1067934

Luminaire Tested: **NAV-SA5B-727-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067934
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA5B-727-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 800mA 5xLight Square PACKAGE
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16033.1 lumens
Efficiency: N/A
Efficacy: 89.7 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): 178.8
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



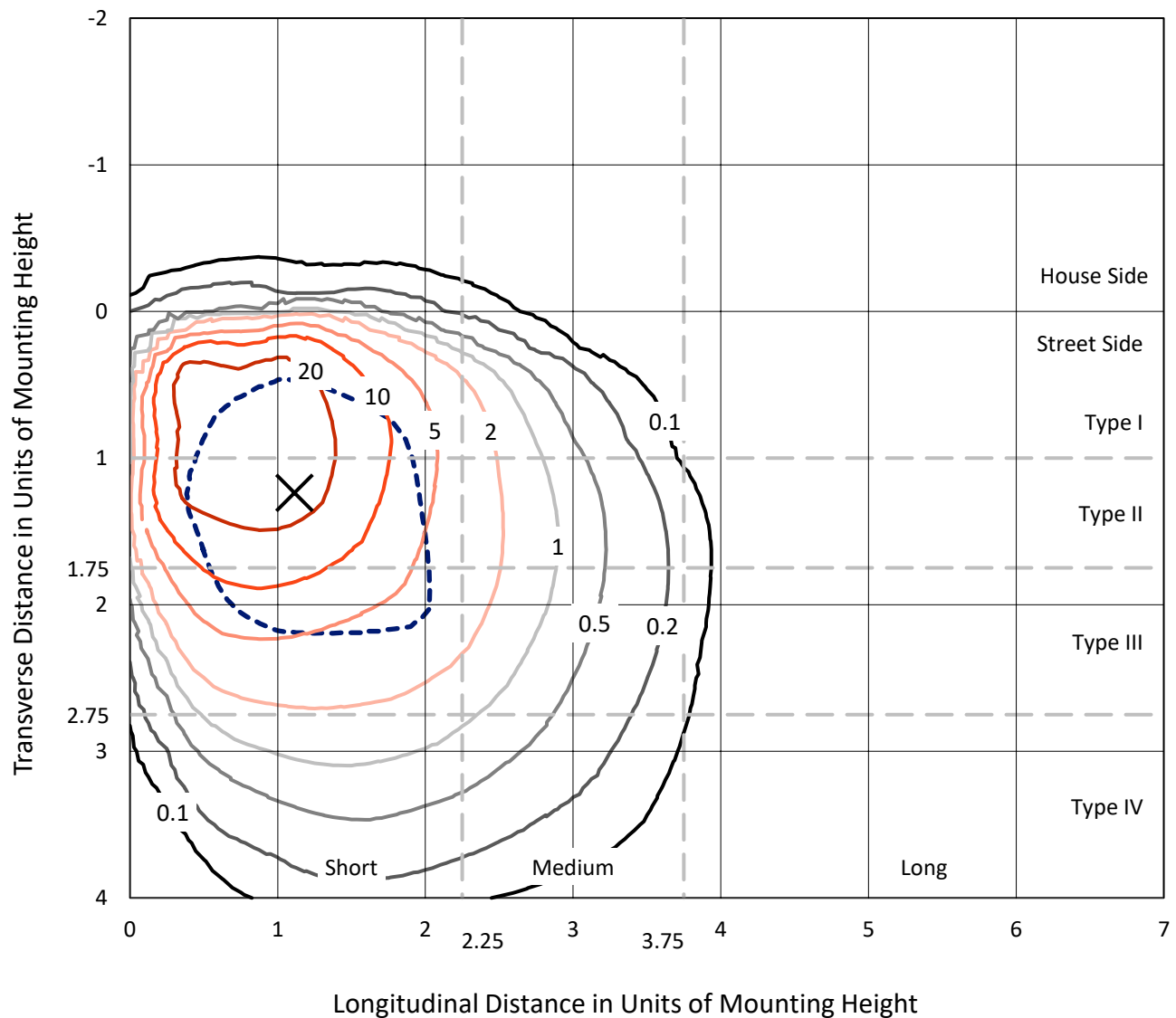
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

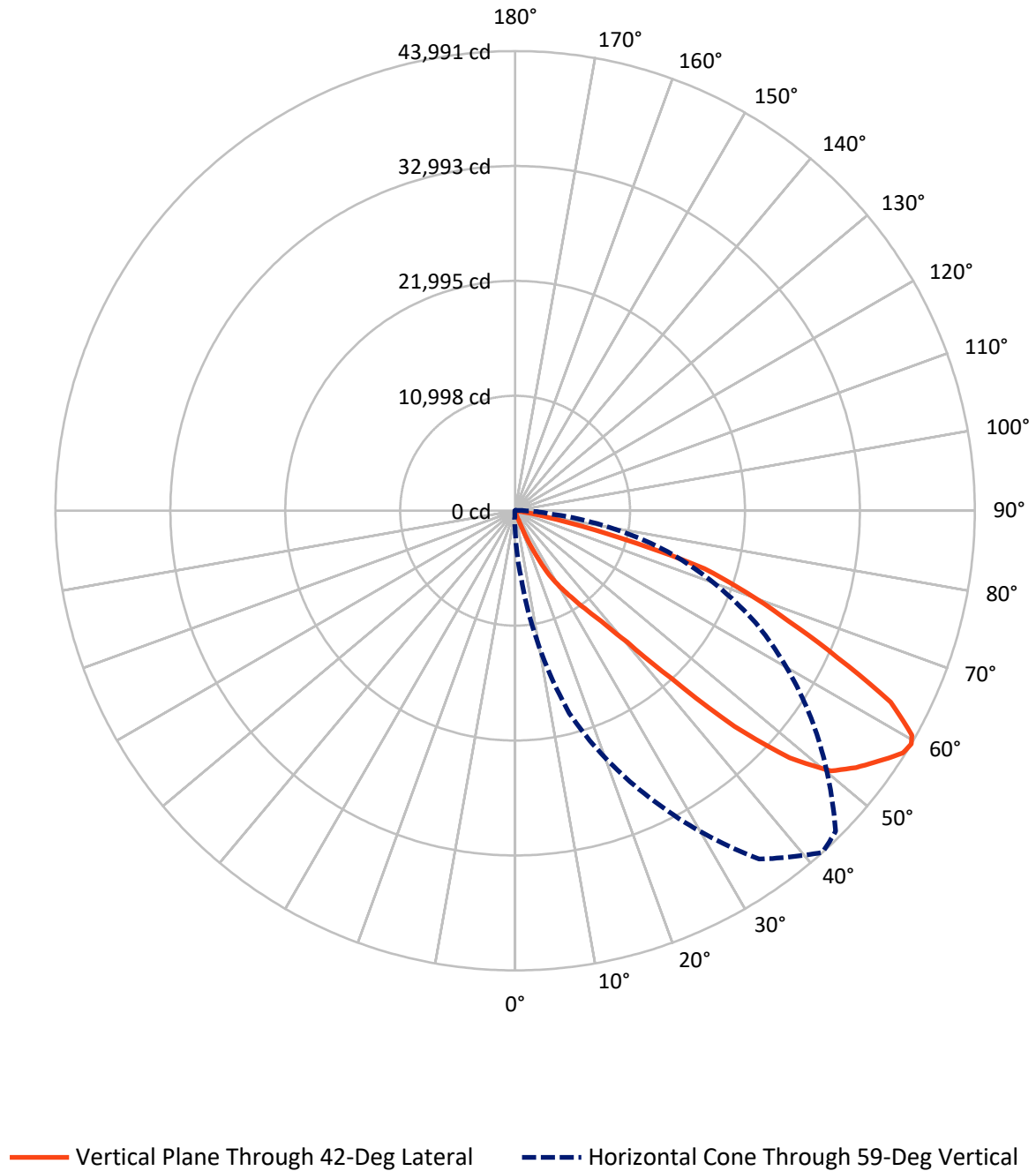


Based on 15 foot mounting height. Maximum calculated value = 47.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	77.3	0.0	77.3
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15955.9	0.0	15955.9
	% Fixture	99.5	0.0	99.5
Total	Lumens	16033.1	0.0	16033.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.0
10°-20°	23.4	0.1
20°-30°	299.1	1.9
30°-40°	1008.3	6.3
40°-50°	3045.4	19.0
50°-60°	5375.9	33.5
60°-70°	4733.6	29.5
70°-80°	1506.7	9.4
80°-90°	36.0	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°	16033.1	100.0
0°-180°	16033.1	100.0



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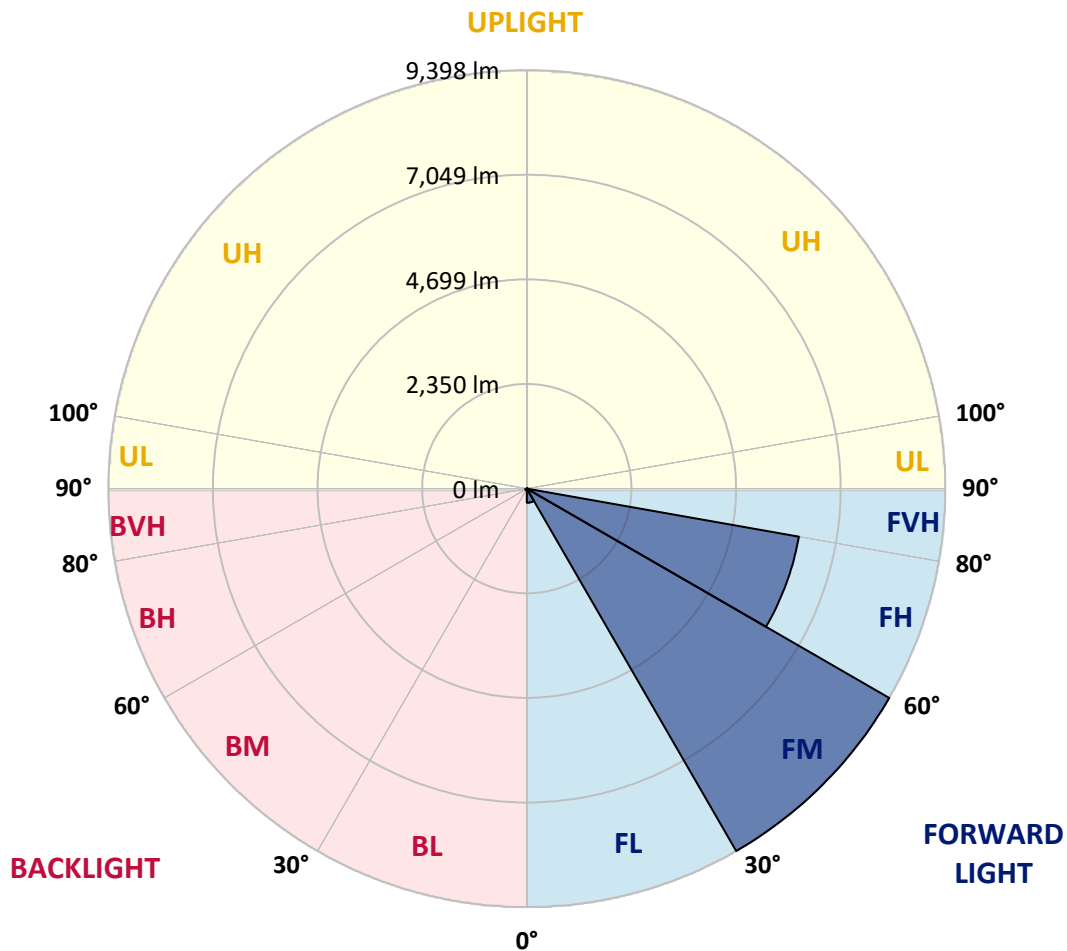
CATALOG NUMBER: NAV-SA5B-727-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.5	2.0			
FM	(30°-60°)	9398.1	58.6			
FH	(60°-80°)	6205.0	38.7			G3/7500
FVH	(80°-90°)	34.3	0.2			G1/100
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	31.6	0.2	B0/220		
BH	(60°-80°)	35.3	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°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	70.4	70.4	65.3	60.3	55.3	50.3	50.3	50.3	45.2	45.2	40.2
5°	80.4	80.4	75.4	70.4	70.4	65.3	65.3	60.3	55.3	55.3	50.3
7.5°	85.5	85.5	85.5	85.5	80.4	80.4	80.4	75.4	70.4	65.3	60.3
10°	90.5	95.5	100.5	100.5	100.5	100.5	100.5	95.5	85.5	80.4	70.4
12.5°	100.5	105.6	115.6	125.7	125.7	130.7	125.7	120.6	110.6	95.5	80.4
15°	110.6	120.6	135.7	155.8	175.9	181.0	181.0	165.9	145.8	115.6	95.5
17.5°	125.7	140.8	181.0	246.3	316.7	372.0	372.0	331.8	231.2	150.8	110.6
20°	135.7	165.9	291.6	593.2	904.8	1136.1	1090.8	965.2	517.8	236.3	120.6
22.5°	150.8	211.1	618.3	1558.3	2412.9	2835.2	2734.6	2076.1	1161.2	422.3	145.8
25°	170.9	306.6	1226.6	2920.6	4484.0	4941.5	4876.1	3875.8	2116.3	708.8	186.0
27.5°	211.1	452.4	1965.5	4428.7	6615.4	7007.5	6982.4	5675.4	3383.1	1141.1	241.3
30°	266.4	658.5	2915.6	6017.2	8028.0	8425.1	8299.4	6992.4	4564.4	1744.3	311.7
32.5°	331.8	919.9	3775.2	7188.5	9330.0	9852.8	9702.0	8138.6	5514.5	2257.1	462.5
35°	432.3	1176.3	4624.8	8224.0	10833.0	11496.6	11245.2	9319.9	6333.9	2835.2	558.0
37.5°	482.6	1327.1	5403.9	9350.1	12522.1	13426.9	13235.9	10812.9	7168.4	3574.1	683.7
40°	487.6	1508.1	6213.3	10817.9	14909.8	16523.5	16181.7	13376.6	8721.7	4524.2	879.7
42.5°	502.7	1779.5	7263.9	13321.3	19600.0	21917.4	21530.3	18091.9	12245.6	6429.4	1246.7
45°	573.1	2292.3	9405.4	18001.4	26039.4	29437.6	28990.2	24662.1	17166.9	10013.6	2126.4
47.5°	819.4	3448.5	13160.5	23053.4	32624.7	35334.2	35223.6	29839.8	21625.8	13688.3	3604.3
50°	1317.1	5293.3	17433.4	27301.2	36817.1	39144.6	38868.1	32001.4	24169.4	16196.7	4619.7
52.5°	1759.4	7057.8	20117.7	28864.6	38068.9	40843.7	40506.9	32790.6	24838.0	16935.7	4901.2
55°	1870.0	7696.2	20917.0	29347.1	38898.3	42281.4	41793.8	33318.4	24923.5	16407.9	4433.7
57.5°	1814.7	7093.0	20399.2	29819.7	40054.5	43759.3	43110.9	34348.9	25210.0	15513.1	3689.8
59°	1719.2	6349.0	20077.5	30196.7	40692.9	43990.6	43382.3	34575.1	25401.0	15105.9	3237.3
60°	1608.6	5846.3	19826.2	30443.0	40652.7	43628.6	43000.3	34469.6	25476.4	14754.0	3021.2
62.5°	1241.6	4665.0	19464.2	30267.1	38114.1	40325.9	39969.0	31885.7	24370.5	13628.0	2382.8
65°	965.2	3569.1	18137.1	26994.6	32433.7	33921.6	33811.1	26999.6	20509.8	11747.9	1719.2
67.5°	764.1	2603.9	15337.1	21862.1	26094.7	28211.1	28130.6	21917.4	15568.4	8978.1	1236.6
70°	623.3	1854.9	10516.3	16483.3	20871.8	23536.0	23420.4	17639.5	11536.8	5695.5	899.8
72.5°	527.8	1186.4	6379.2	12426.5	17418.3	18941.4	18604.6	14231.2	8389.9	3101.6	713.8
75°	447.4	728.9	3161.9	7746.5	10375.6	10365.5	10028.7	7535.4	4504.1	1518.1	568.0
77.5°	361.9	512.7	1241.6	2126.4	3272.5	4051.7	3986.3	2669.3	1347.2	442.4	351.9
80°	236.3	241.3	331.8	583.1	899.8	995.3	1131.1	814.4	392.1	211.1	145.8
82.5°	105.6	115.6	150.8	191.0	191.0	175.9	155.8	115.6	85.5	70.4	35.2
85°	25.1	35.2	25.1	30.2	25.1	20.1	20.1	10.1	0.0	0.0	0.0
87.5°	5.0	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°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	40.2	40.2	40.2	35.2	35.2	35.2	30.2	30.2	30.2	25.1	25.1
5°	50.3	45.2	40.2	40.2	35.2	35.2	30.2	25.1	25.1	25.1	20.1
7.5°	55.3	50.3	45.2	40.2	35.2	30.2	30.2	25.1	20.1	20.1	20.1
10°	65.3	60.3	50.3	40.2	35.2	30.2	25.1	25.1	20.1	15.1	15.1
12.5°	75.4	65.3	55.3	45.2	35.2	30.2	25.1	25.1	20.1	15.1	10.1
15°	85.5	75.4	60.3	45.2	35.2	30.2	25.1	25.1	15.1	10.1	5.0
17.5°	95.5	80.4	60.3	50.3	35.2	30.2	25.1	20.1	10.1	5.0	0.0
20°	100.5	85.5	65.3	50.3	35.2	30.2	25.1	15.1	5.0	0.0	0.0
22.5°	110.6	95.5	70.4	50.3	35.2	25.1	15.1	5.0	0.0	0.0	0.0
25°	130.7	100.5	70.4	50.3	35.2	25.1	10.1	0.0	0.0	0.0	0.0
27.5°	145.8	110.6	70.4	50.3	35.2	20.1	5.0	0.0	0.0	0.0	0.0
30°	170.9	120.6	75.4	50.3	35.2	15.1	5.0	0.0	0.0	0.0	0.0
32.5°	211.1	130.7	75.4	50.3	30.2	15.1	0.0	0.0	0.0	0.0	0.0
35°	256.4	150.8	75.4	50.3	30.2	15.1	0.0	0.0	0.0	0.0	0.0
37.5°	261.4	160.9	75.4	50.3	30.2	10.1	0.0	0.0	0.0	0.0	0.0
40°	271.5	150.8	80.4	50.3	30.2	10.1	0.0	0.0	0.0	0.0	0.0
42.5°	311.7	140.8	85.5	50.3	30.2	10.1	0.0	0.0	0.0	0.0	0.0
45°	462.5	145.8	85.5	55.3	30.2	15.1	0.0	0.0	0.0	0.0	0.0
47.5°	804.3	150.8	80.4	55.3	30.2	15.1	0.0	0.0	0.0	0.0	0.0
50°	1030.5	175.9	80.4	60.3	35.2	10.1	0.0	0.0	0.0	0.0	0.0
52.5°	1095.9	206.1	80.4	65.3	45.2	5.0	0.0	0.0	0.0	0.0	0.0
55°	1065.7	241.3	85.5	70.4	55.3	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	985.3	261.4	90.5	75.4	60.3	0.0	0.0	0.0	0.0	0.0	0.0
59°	899.8	276.5	105.6	80.4	60.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	829.4	291.6	110.6	85.5	60.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	668.6	311.7	120.6	100.5	50.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	583.1	326.7	125.7	110.6	45.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	532.9	336.8	135.7	115.6	40.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	492.6	331.8	145.8	110.6	35.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	447.4	316.7	175.9	100.5	30.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	402.2	286.5	191.0	90.5	20.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	291.6	241.3	175.9	80.4	10.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	125.7	130.7	125.7	60.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	30.2	25.1	15.1	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°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	25.1	25.1	25.1	25.1	30.2	30.2	40.2	50.3	60.3	65.3	65.3
5°	20.1	20.1	20.1	20.1	20.1	25.1	30.2	40.2	55.3	60.3	60.3
7.5°	15.1	15.1	15.1	15.1	15.1	15.1	25.1	35.2	50.3	55.3	60.3
10°	15.1	10.1	10.1	5.0	5.0	10.1	15.1	30.2	45.2	50.3	55.3
12.5°	10.1	5.0	5.0	0.0	0.0	5.0	10.1	25.1	40.2	45.2	50.3
15°	5.0	0.0	0.0	0.0	0.0	0.0	5.0	20.1	35.2	40.2	50.3
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	30.2	40.2	45.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	25.1	35.2	40.2
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	20.1	30.2	35.2
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	20.1	25.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	15.1	20.1
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	15.1	20.1
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1	15.1
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1	15.1
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1	10.1
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0
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°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	70.4	70.4	65.3	60.3	60.3	60.3	65.3	70.4	70.4	70.4
5°	65.3	65.3	60.3	60.3	60.3	60.3	65.3	75.4	80.4	80.4
7.5°	65.3	65.3	60.3	60.3	60.3	60.3	65.3	75.4	80.4	85.5
10°	60.3	60.3	60.3	60.3	55.3	60.3	65.3	75.4	90.5	90.5
12.5°	60.3	60.3	60.3	60.3	55.3	60.3	70.4	80.4	95.5	100.5
15°	60.3	60.3	60.3	55.3	55.3	60.3	70.4	85.5	100.5	110.6
17.5°	55.3	60.3	60.3	55.3	55.3	60.3	70.4	85.5	110.6	125.7
20°	50.3	55.3	60.3	55.3	55.3	55.3	70.4	85.5	115.6	135.7
22.5°	45.2	50.3	55.3	55.3	50.3	55.3	70.4	90.5	125.7	150.8
25°	40.2	45.2	45.2	50.3	50.3	55.3	70.4	90.5	130.7	170.9
27.5°	30.2	35.2	40.2	45.2	45.2	55.3	70.4	95.5	140.8	211.1
30°	25.1	30.2	35.2	40.2	45.2	55.3	70.4	95.5	150.8	266.4
32.5°	25.1	30.2	35.2	40.2	45.2	50.3	70.4	100.5	165.9	331.8
35°	20.1	25.1	30.2	40.2	40.2	50.3	70.4	100.5	181.0	432.3
37.5°	20.1	25.1	30.2	40.2	40.2	50.3	70.4	100.5	221.2	482.6
40°	15.1	20.1	25.1	40.2	40.2	50.3	75.4	105.6	226.2	487.6
42.5°	15.1	20.1	25.1	35.2	40.2	50.3	75.4	105.6	211.1	502.7
45°	15.1	20.1	25.1	40.2	45.2	55.3	75.4	110.6	206.1	573.1
47.5°	15.1	20.1	25.1	40.2	50.3	55.3	75.4	110.6	211.1	819.4
50°	15.1	20.1	25.1	40.2	55.3	55.3	75.4	110.6	231.2	1317.1
52.5°	10.1	15.1	20.1	35.2	45.2	60.3	80.4	105.6	246.3	1759.4
55°	10.1	10.1	15.1	30.2	40.2	65.3	85.5	105.6	286.5	1870.0
57.5°	10.1	10.1	15.1	25.1	35.2	70.4	90.5	105.6	331.8	1814.7
59°	10.1	10.1	10.1	25.1	30.2	70.4	90.5	110.6	336.8	1719.2
60°	10.1	10.1	10.1	20.1	30.2	70.4	95.5	115.6	341.8	1608.6
62.5°	5.0	5.0	5.0	20.1	25.1	70.4	105.6	140.8	351.9	1241.6
65°	10.1	10.1	5.0	15.1	25.1	60.3	120.6	150.8	356.9	965.2
67.5°	10.1	10.1	10.1	20.1	25.1	60.3	125.7	155.8	356.9	764.1
70°	10.1	10.1	10.1	20.1	30.2	60.3	125.7	160.9	351.9	623.3
72.5°	10.1	10.1	10.1	20.1	30.2	55.3	115.6	165.9	336.8	527.8
75°	10.1	10.1	10.1	15.1	25.1	50.3	110.6	181.0	306.6	447.4
77.5°	10.1	10.1	10.1	10.1	20.1	40.2	100.5	201.1	271.5	361.9
80°	15.1	10.1	10.1	10.1	15.1	35.2	95.5	196.0	226.2	236.3
82.5°	15.1	10.1	10.1	5.0	10.1	25.1	75.4	150.8	115.6	105.6
85°	10.1	10.1	10.1	5.0	5.0	15.1	35.2	45.2	35.2	25.1
87.5°	10.1	10.1	10.1	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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

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

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CIE 1931 Chromaticity Diagram

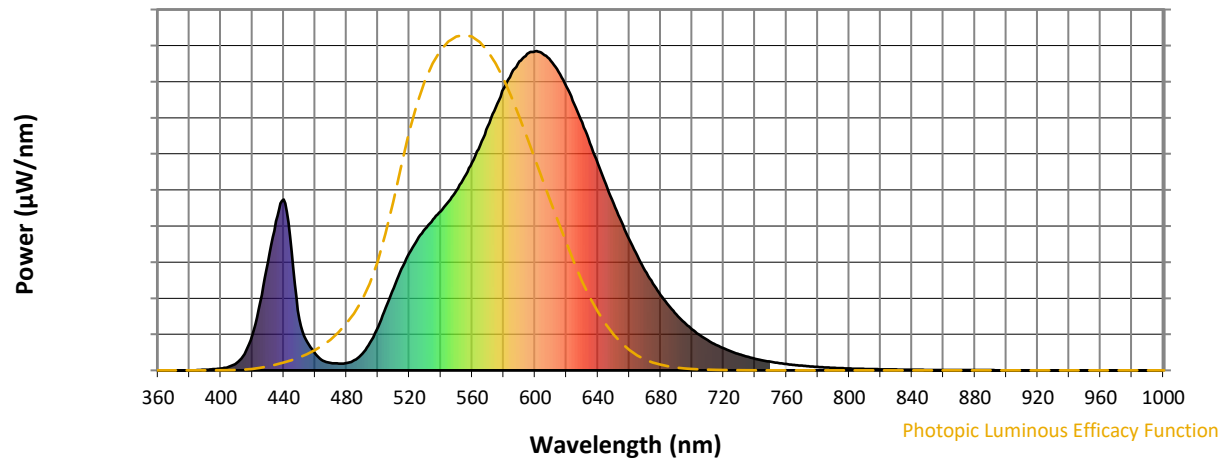


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-3

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	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 $\text{W}^\wedge/\text{nm}$	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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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			

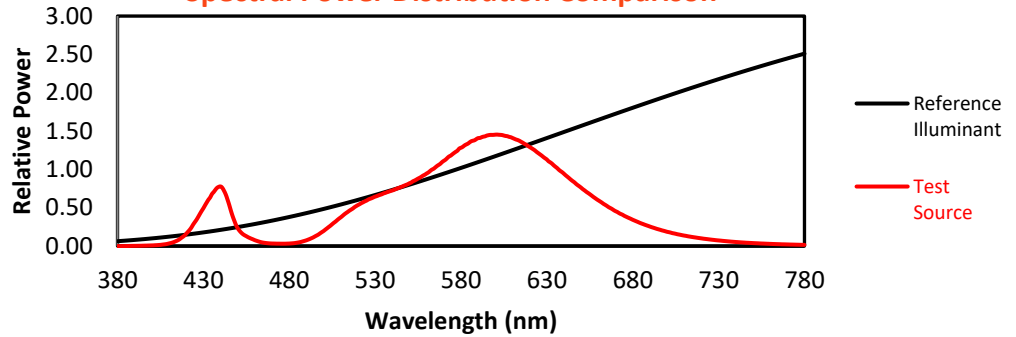
REPORT NUMBER: SP1-2407-184-3

TM-30-18

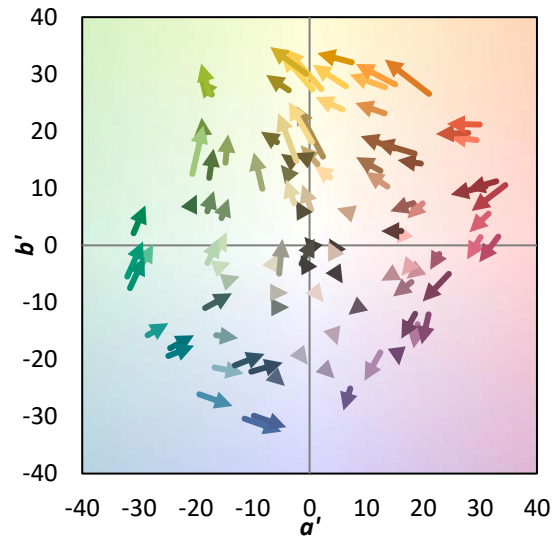
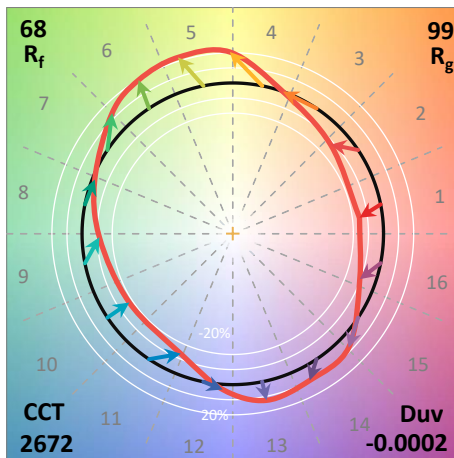
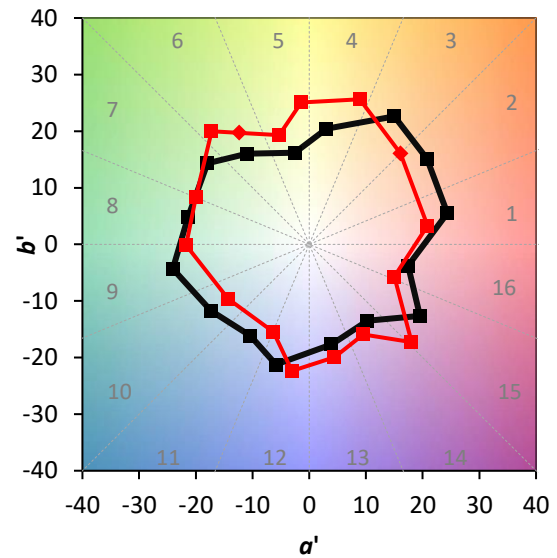
Summary

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

Spectral Power Distribution Comparison



Color Vector Graphics

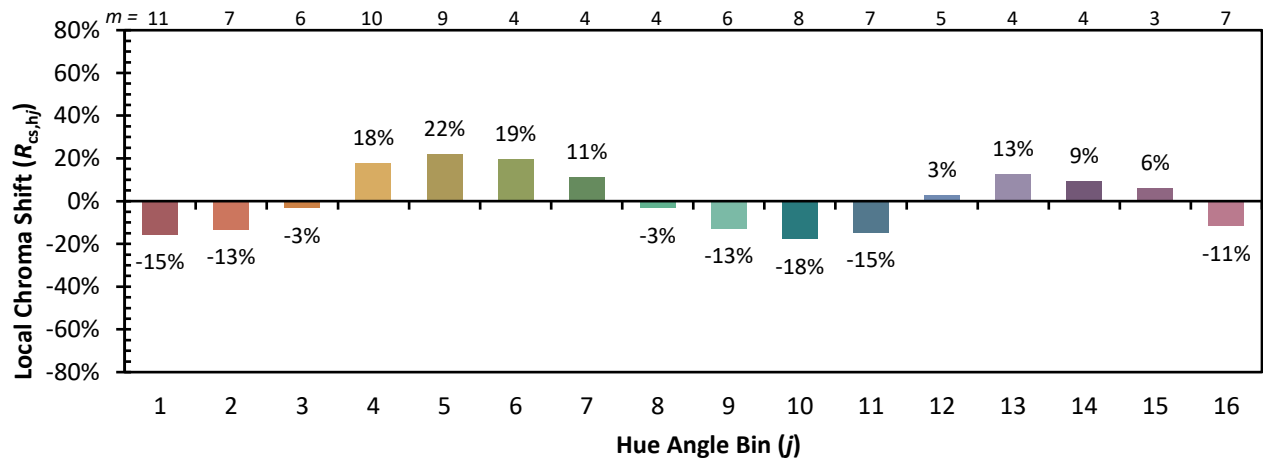


Individual Sample Fidelity Index ($R_{f,i}$)

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)