

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: P1067988

Luminaire Tested: **NAV-SA6D-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067988
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6D-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 6xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29351.1 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 320.4
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

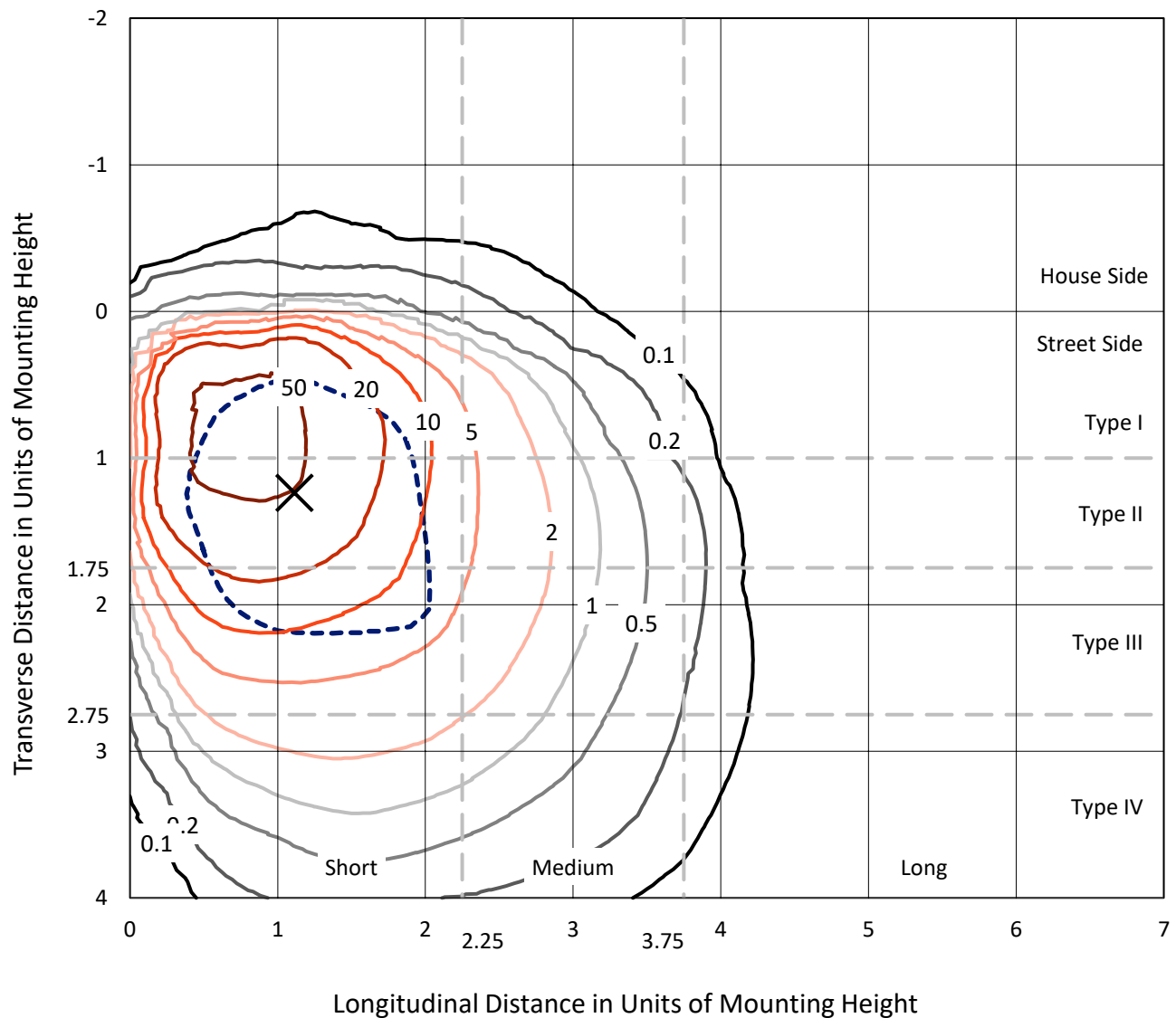


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

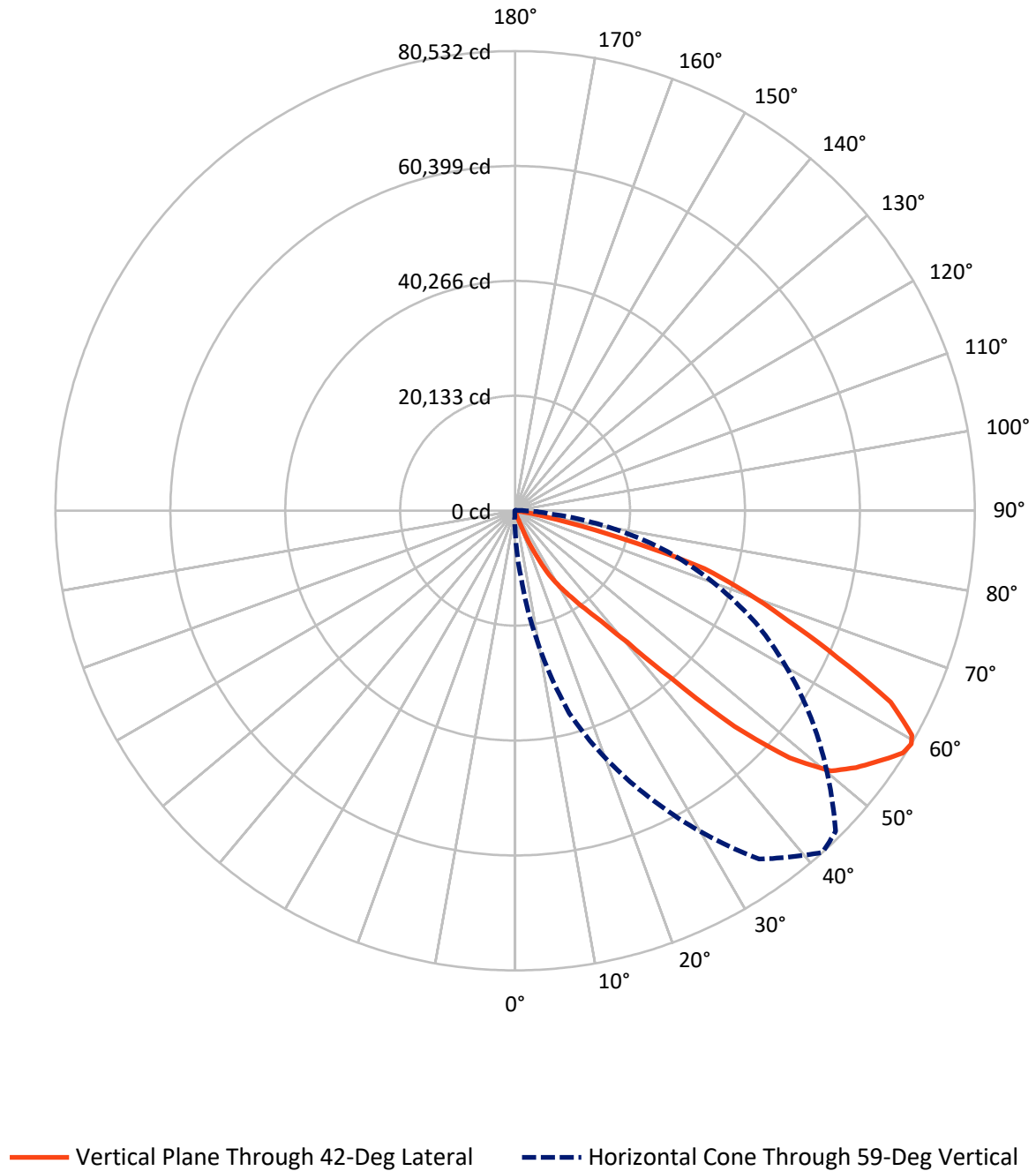


Based on 15 foot mounting height. Maximum calculated value = 87.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	141.4	0.0	141.4
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	29209.7	0.0	29209.7
	% Fixture	99.5	0.0	99.5
Total	Lumens	29351.1	0.0	29351.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.0
10°-20°	42.8	0.1
20°-30°	547.5	1.9
30°-40°	1845.8	6.3
40°-50°	5575.1	19.0
50°-60°	9841.5	33.5
60°-70°	8665.6	29.5
70°-80°	2758.3	9.4
80°-90°	66.0	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°	29351.1	100.0
0°-180°	29351.1	100.0



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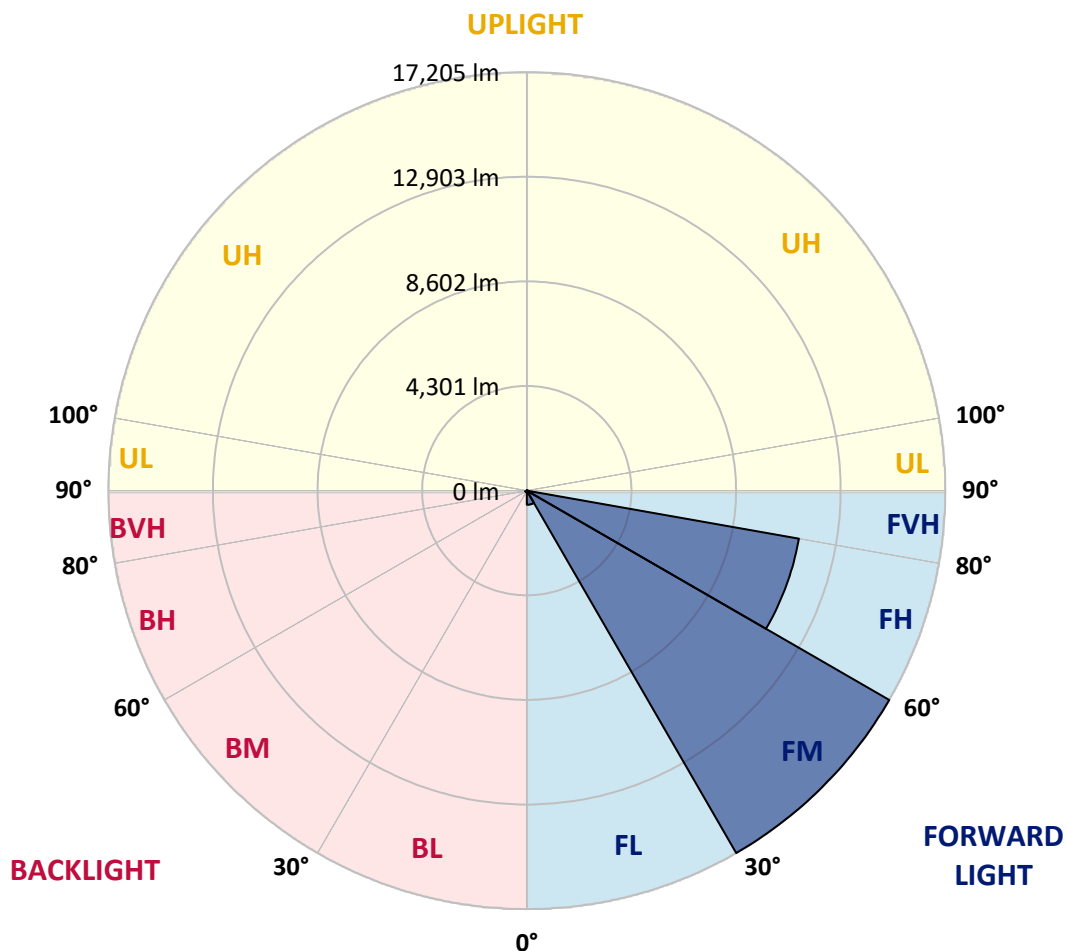
CATALOG NUMBER: NAV-SA6D-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.1	2.0			
FM	(30°-60°)	17204.6	58.6			
FH	(60°-80°)	11359.2	38.7			G4/12000
FVH	(80°-90°)	62.8	0.2			G1/100
BL	(0°-30°)	15.8	0.1	B0/110		
BM	(30°-60°)	57.8	0.2	B0/220		
BH	(60°-80°)	64.7	0.2	B0/110		G0/110
BVH	(80°-90°)	3.2	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	128.8	128.8	119.6	110.4	101.2	92.0	92.0	92.0	82.8	82.8	73.6
5°	147.2	147.2	138.0	128.8	128.8	119.6	119.6	110.4	101.2	101.2	92.0
7.5°	156.4	156.4	156.4	156.4	147.2	147.2	147.2	138.0	128.8	119.6	110.4
10°	165.6	174.8	184.1	184.1	184.1	184.1	184.1	174.8	156.4	147.2	128.8
12.5°	184.1	193.3	211.7	230.1	230.1	239.3	230.1	220.9	202.5	174.8	147.2
15°	202.5	220.9	248.5	285.3	322.1	331.3	331.3	303.7	266.9	211.7	174.8
17.5°	230.1	257.7	331.3	450.9	579.8	681.0	681.0	607.4	423.3	276.1	202.5
20°	248.5	303.7	533.7	1085.9	1656.5	2079.8	1997.0	1766.9	947.9	432.5	220.9
22.5°	276.1	386.5	1131.9	2852.8	4417.2	5190.2	5006.2	3800.7	2125.8	773.0	266.9
25°	312.9	561.4	2245.4	5346.7	8208.7	9046.1	8926.5	7095.2	3874.3	1297.6	340.5
27.5°	386.5	828.2	3598.2	8107.4	12110.6	12828.4	12782.3	10389.7	6193.3	2089.0	441.7
30°	487.7	1205.5	5337.5	11015.5	14696.5	15423.5	15193.4	12800.7	8355.9	3193.3	570.6
32.5°	607.4	1684.1	6911.1	13159.6	17079.9	18037.0	17760.9	14898.9	10095.2	4131.9	846.6
35°	791.4	2153.4	8466.3	15055.4	19831.5	21046.2	20586.1	17061.5	11595.2	5190.2	1021.5
37.5°	883.4	2429.5	9892.7	17116.7	22923.6	24580.0	24230.3	19794.7	13122.8	6543.0	1251.5
40°	892.6	2760.8	11374.4	19803.9	27294.8	30248.8	29623.0	24488.0	15966.4	8282.3	1610.4
42.5°	920.3	3257.7	13297.7	24386.8	35880.7	40123.1	39414.5	33120.0	22417.4	11770.1	2282.2
45°	1049.1	4196.4	17218.0	32954.3	47669.2	53890.1	53071.1	45147.7	31426.7	18331.5	3892.7
47.5°	1500.0	6312.9	24092.3	42202.9	59724.5	64684.7	64482.3	54626.3	39589.4	25058.5	6598.2
50°	2411.1	9690.3	31914.4	49979.0	67399.5	71660.3	71154.1	58583.4	44245.9	29650.6	8457.1
52.5°	3220.9	12920.4	36828.6	52841.0	69690.9	74770.7	74154.1	60028.2	45469.8	31003.4	8972.5
55°	3423.3	14089.1	38291.8	53724.5	71209.3	77402.6	76510.0	60994.5	45626.2	30037.1	8116.6
57.5°	3322.1	12984.8	37343.9	54589.5	73325.9	80108.2	78921.1	62881.0	46150.8	28399.1	6754.7
59°	3147.3	11622.8	36755.0	55279.7	74494.6	80531.5	79418.0	63295.1	46500.5	27653.7	5926.4
60°	2944.8	10702.6	36294.9	55730.6	74421.0	79868.9	78718.6	63101.9	46638.5	27009.5	5530.7
62.5°	2273.0	8540.0	35632.3	55408.6	69773.7	73822.9	73169.5	58371.8	44614.0	24948.1	4362.0
65°	1766.9	6533.8	33202.8	49417.7	59374.8	62098.8	61896.3	49426.9	37546.4	21506.4	3147.3
67.5°	1398.8	4766.9	28077.0	40021.9	47770.4	51644.7	51497.5	40123.1	28500.3	16435.8	2263.8
70°	1141.1	3395.7	19251.7	30175.2	38209.0	43086.3	42874.7	32291.7	21119.9	10426.5	1647.3
72.5°	966.3	2171.8	11678.0	22748.7	31886.8	34675.2	34058.6	26052.4	15359.1	5678.0	1306.8
75°	819.0	1334.4	5788.4	14181.1	18994.1	18975.7	18359.1	13794.6	8245.5	2779.2	1039.9
77.5°	662.6	938.7	2273.0	3892.7	5990.9	7417.3	7297.6	4886.6	2466.3	809.8	644.2
80°	432.5	441.7	607.4	1067.5	1647.3	1822.1	2070.6	1490.8	717.8	386.5	266.9
82.5°	193.3	211.7	276.1	349.7	349.7	322.1	285.3	211.7	156.4	128.8	64.4
85°	46.0	64.4	46.0	55.2	46.0	36.8	36.8	18.4	0.0	0.0	0.0
87.5°	9.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	73.6	73.6	73.6	64.4	64.4	64.4	55.2	55.2	55.2	46.0	46.0
5°	92.0	82.8	73.6	73.6	64.4	64.4	55.2	46.0	46.0	46.0	36.8
7.5°	101.2	92.0	82.8	73.6	64.4	55.2	55.2	46.0	36.8	36.8	36.8
10°	119.6	110.4	92.0	73.6	64.4	55.2	46.0	46.0	36.8	27.6	27.6
12.5°	138.0	119.6	101.2	82.8	64.4	55.2	46.0	46.0	36.8	27.6	18.4
15°	156.4	138.0	110.4	82.8	64.4	55.2	46.0	46.0	27.6	18.4	9.2
17.5°	174.8	147.2	110.4	92.0	64.4	55.2	46.0	36.8	18.4	9.2	0.0
20°	184.1	156.4	119.6	92.0	64.4	55.2	46.0	27.6	9.2	0.0	0.0
22.5°	202.5	174.8	128.8	92.0	64.4	46.0	27.6	9.2	0.0	0.0	0.0
25°	239.3	184.1	128.8	92.0	64.4	46.0	18.4	0.0	0.0	0.0	0.0
27.5°	266.9	202.5	128.8	92.0	64.4	36.8	9.2	0.0	0.0	0.0	0.0
30°	312.9	220.9	138.0	92.0	64.4	27.6	9.2	0.0	0.0	0.0	0.0
32.5°	386.5	239.3	138.0	92.0	55.2	27.6	0.0	0.0	0.0	0.0	0.0
35°	469.3	276.1	138.0	92.0	55.2	27.6	0.0	0.0	0.0	0.0	0.0
37.5°	478.5	294.5	138.0	92.0	55.2	18.4	0.0	0.0	0.0	0.0	0.0
40°	496.9	276.1	147.2	92.0	55.2	18.4	0.0	0.0	0.0	0.0	0.0
42.5°	570.6	257.7	156.4	92.0	55.2	18.4	0.0	0.0	0.0	0.0	0.0
45°	846.6	266.9	156.4	101.2	55.2	27.6	0.0	0.0	0.0	0.0	0.0
47.5°	1472.4	276.1	147.2	101.2	55.2	27.6	0.0	0.0	0.0	0.0	0.0
50°	1886.5	322.1	147.2	110.4	64.4	18.4	0.0	0.0	0.0	0.0	0.0
52.5°	2006.2	377.3	147.2	119.6	82.8	9.2	0.0	0.0	0.0	0.0	0.0
55°	1950.9	441.7	156.4	128.8	101.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1803.7	478.5	165.6	138.0	110.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	1647.3	506.1	193.3	147.2	110.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1518.4	533.7	202.5	156.4	110.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1223.9	570.6	220.9	184.1	92.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1067.5	598.2	230.1	202.5	82.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	975.5	616.6	248.5	211.7	73.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	901.8	607.4	266.9	202.5	64.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	819.0	579.8	322.1	184.1	55.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	736.2	524.5	349.7	165.6	36.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	533.7	441.7	322.1	147.2	18.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	230.1	239.3	230.1	110.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.0	55.2	46.0	27.6	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°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	46.0	46.0	46.0	46.0	55.2	55.2	73.6	92.0	110.4	119.6	119.6
5°	36.8	36.8	36.8	36.8	36.8	46.0	55.2	73.6	101.2	110.4	110.4
7.5°	27.6	27.6	27.6	27.6	27.6	27.6	46.0	64.4	92.0	101.2	110.4
10°	27.6	18.4	18.4	9.2	9.2	18.4	27.6	55.2	82.8	92.0	101.2
12.5°	18.4	9.2	9.2	0.0	0.0	9.2	18.4	46.0	73.6	82.8	92.0
15°	9.2	0.0	0.0	0.0	0.0	0.0	9.2	36.8	64.4	73.6	92.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	55.2	73.6	82.8
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	46.0	64.4	73.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	36.8	55.2	64.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	36.8	46.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	27.6	36.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	27.6	36.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4	27.6
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4	27.6
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4	18.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	18.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	9.2
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°	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
2.5°	128.8	128.8	119.6	110.4	110.4	110.4	119.6	128.8	128.8	128.8
5°	119.6	119.6	110.4	110.4	110.4	110.4	119.6	138.0	147.2	147.2
7.5°	119.6	119.6	110.4	110.4	110.4	110.4	119.6	138.0	147.2	156.4
10°	110.4	110.4	110.4	110.4	101.2	110.4	119.6	138.0	165.6	165.6
12.5°	110.4	110.4	110.4	110.4	101.2	110.4	128.8	147.2	174.8	184.1
15°	110.4	110.4	110.4	101.2	101.2	110.4	128.8	156.4	184.1	202.5
17.5°	101.2	110.4	110.4	101.2	101.2	110.4	128.8	156.4	202.5	230.1
20°	92.0	101.2	110.4	101.2	101.2	101.2	128.8	156.4	211.7	248.5
22.5°	82.8	92.0	101.2	101.2	92.0	101.2	128.8	165.6	230.1	276.1
25°	73.6	82.8	82.8	92.0	92.0	101.2	128.8	165.6	239.3	312.9
27.5°	55.2	64.4	73.6	82.8	82.8	101.2	128.8	174.8	257.7	386.5
30°	46.0	55.2	64.4	73.6	82.8	101.2	128.8	174.8	276.1	487.7
32.5°	46.0	55.2	64.4	73.6	82.8	92.0	128.8	184.1	303.7	607.4
35°	36.8	46.0	55.2	73.6	73.6	92.0	128.8	184.1	331.3	791.4
37.5°	36.8	46.0	55.2	73.6	73.6	92.0	128.8	184.1	404.9	883.4
40°	27.6	36.8	46.0	73.6	73.6	92.0	138.0	193.3	414.1	892.6
42.5°	27.6	36.8	46.0	64.4	73.6	92.0	138.0	193.3	386.5	920.3
45°	27.6	36.8	46.0	73.6	82.8	101.2	138.0	202.5	377.3	1049.1
47.5°	27.6	36.8	46.0	73.6	92.0	101.2	138.0	202.5	386.5	1500.0
50°	27.6	36.8	46.0	73.6	101.2	101.2	138.0	202.5	423.3	2411.1
52.5°	18.4	27.6	36.8	64.4	82.8	110.4	147.2	193.3	450.9	3220.9
55°	18.4	18.4	27.6	55.2	73.6	119.6	156.4	193.3	524.5	3423.3
57.5°	18.4	18.4	27.6	46.0	64.4	128.8	165.6	193.3	607.4	3322.1
59°	18.4	18.4	18.4	36.8	55.2	128.8	174.8	211.7	625.8	2944.8
60°	18.4	18.4	18.4	36.8	55.2	128.8	174.8	211.7	625.8	2944.8
62.5°	9.2	9.2	9.2	36.8	46.0	128.8	193.3	257.7	644.2	2273.0
65°	18.4	18.4	9.2	27.6	46.0	110.4	220.9	276.1	653.4	1766.9
67.5°	18.4	18.4	18.4	36.8	46.0	110.4	230.1	285.3	653.4	1398.8
70°	18.4	18.4	18.4	36.8	55.2	110.4	230.1	294.5	644.2	1141.1
72.5°	18.4	18.4	18.4	36.8	55.2	101.2	211.7	303.7	616.6	966.3
75°	18.4	18.4	18.4	27.6	46.0	92.0	202.5	331.3	561.4	819.0
77.5°	18.4	18.4	18.4	18.4	36.8	73.6	184.1	368.1	496.9	662.6
80°	27.6	18.4	18.4	18.4	27.6	64.4	174.8	358.9	414.1	432.5
82.5°	27.6	18.4	18.4	9.2	18.4	46.0	138.0	276.1	211.7	193.3
85°	18.4	18.4	18.4	9.2	9.2	27.6	64.4	82.8	64.4	46.0
87.5°	18.4	18.4	18.4	9.2	9.2	9.2	9.2	9.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

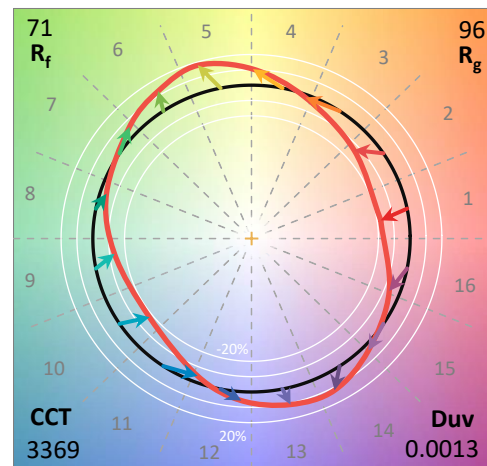
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

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

REPORT NUMBER: SP1-2407-184-5

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: SP1-2407-184-5

Photopic Flux vs. Wavelength

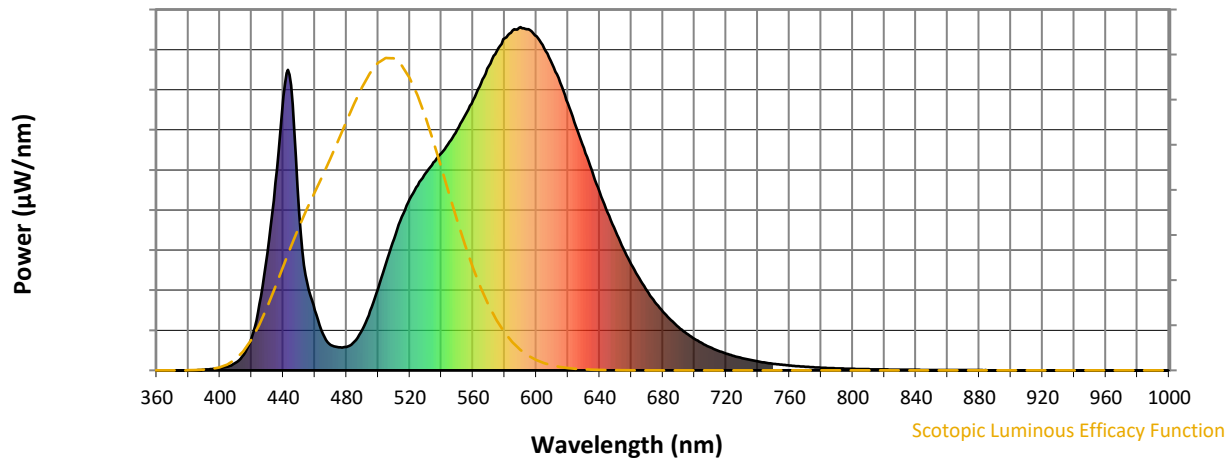


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



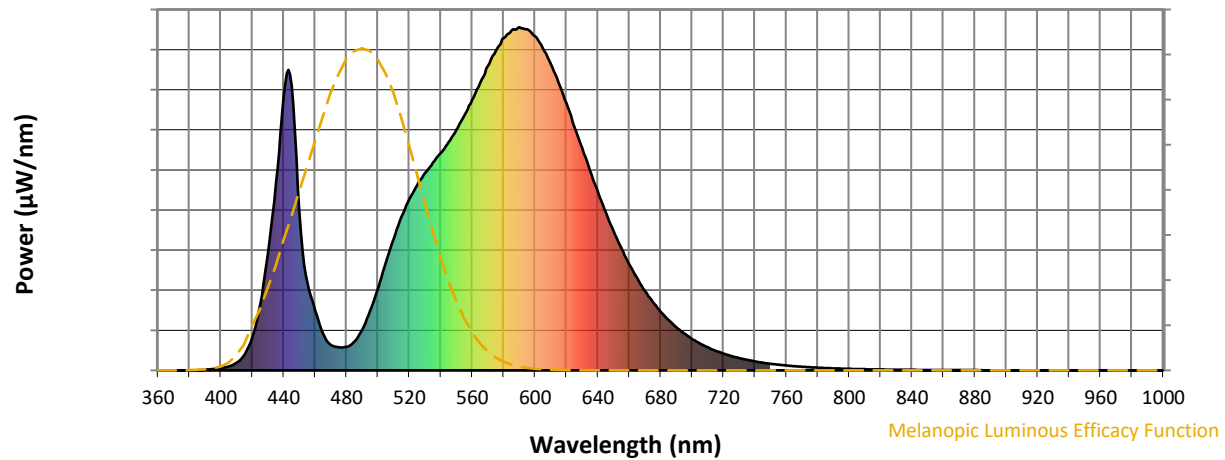
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

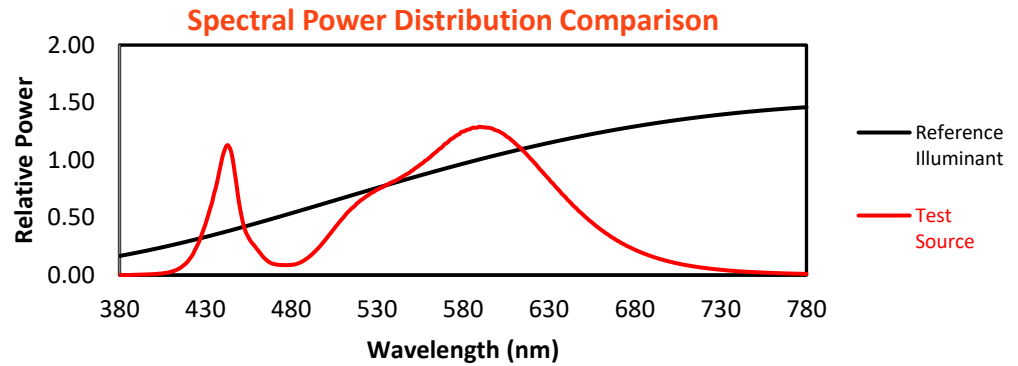
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

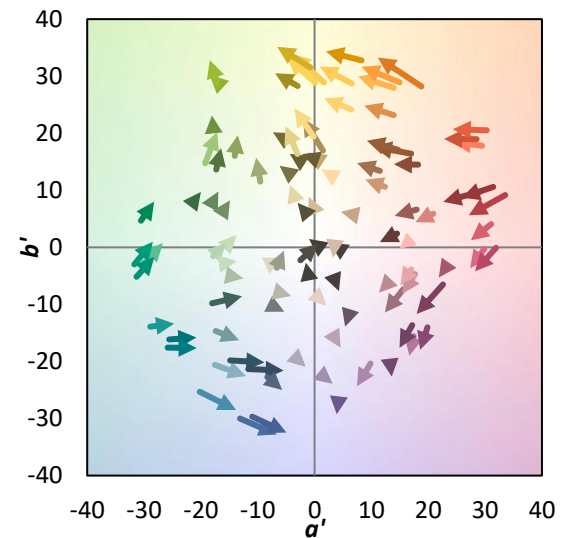
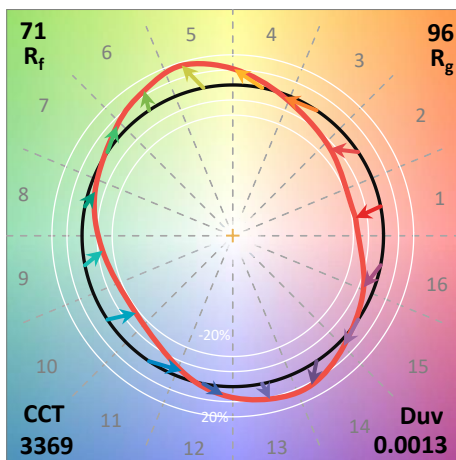
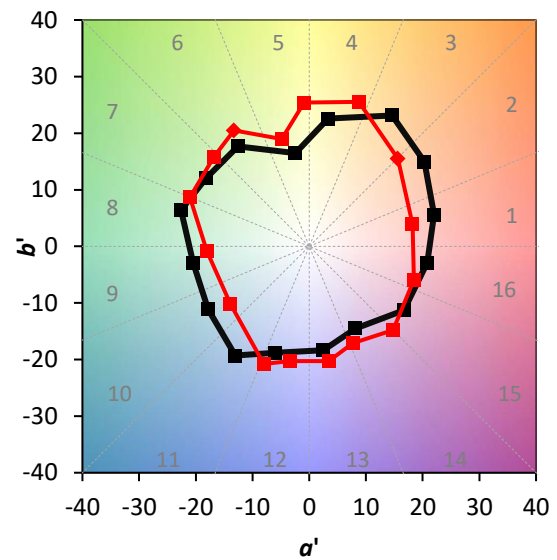
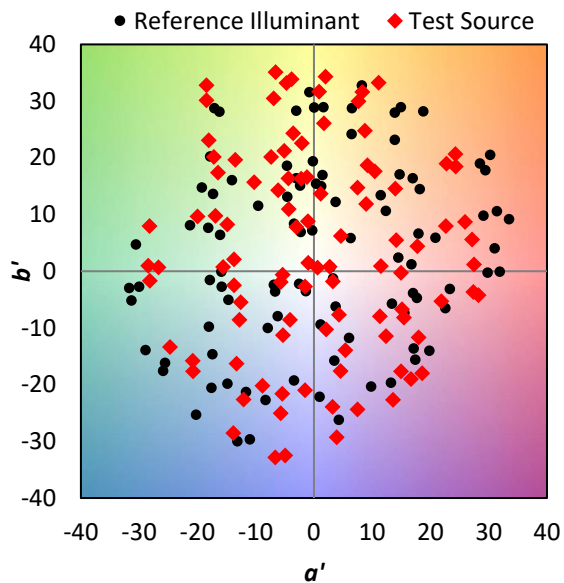
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $\text{CIE } R_a = 70.1$
 $R_g = -40.2$

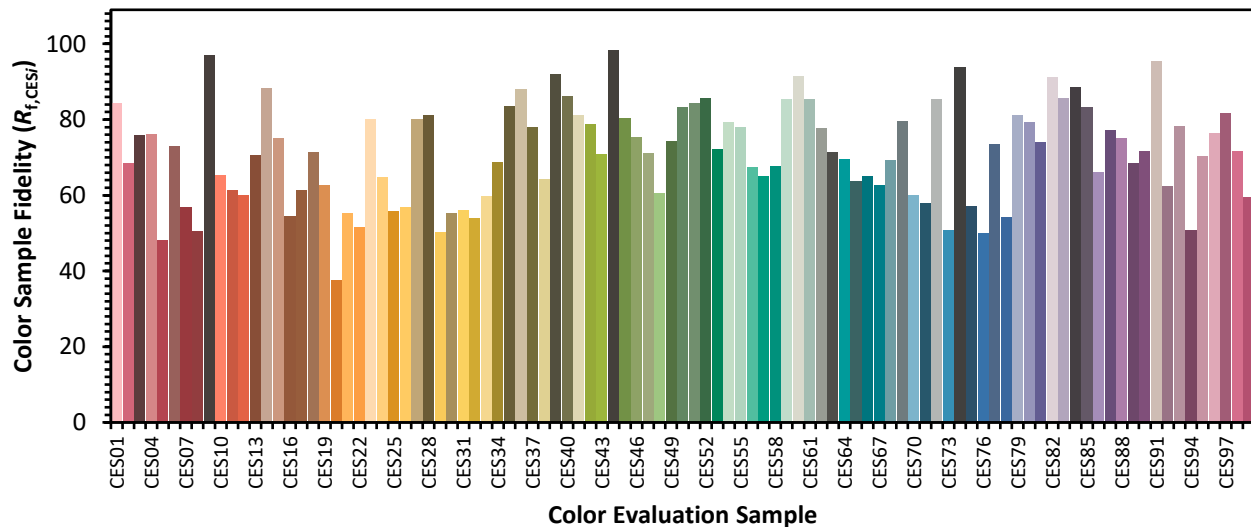


Color Vector Graphics

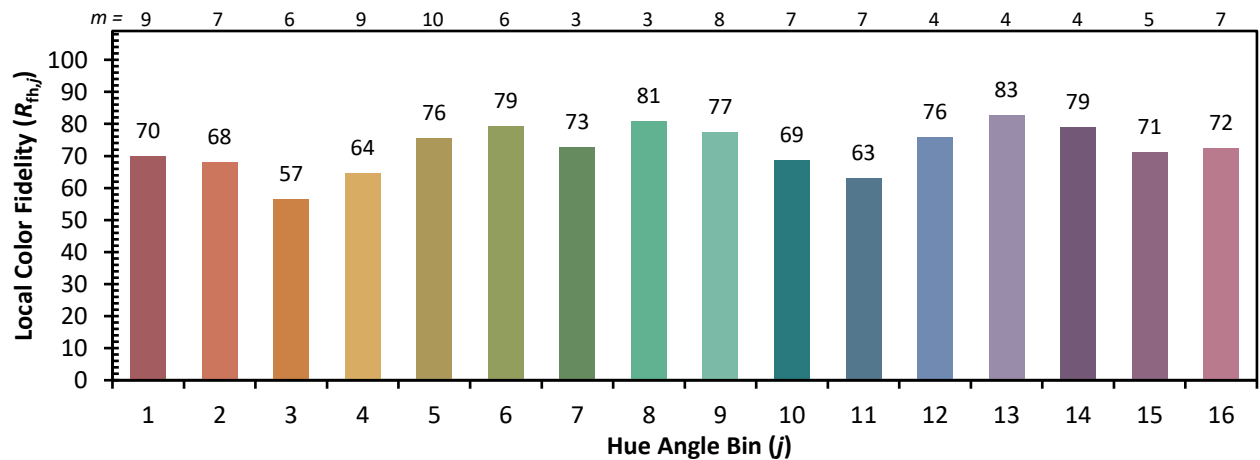
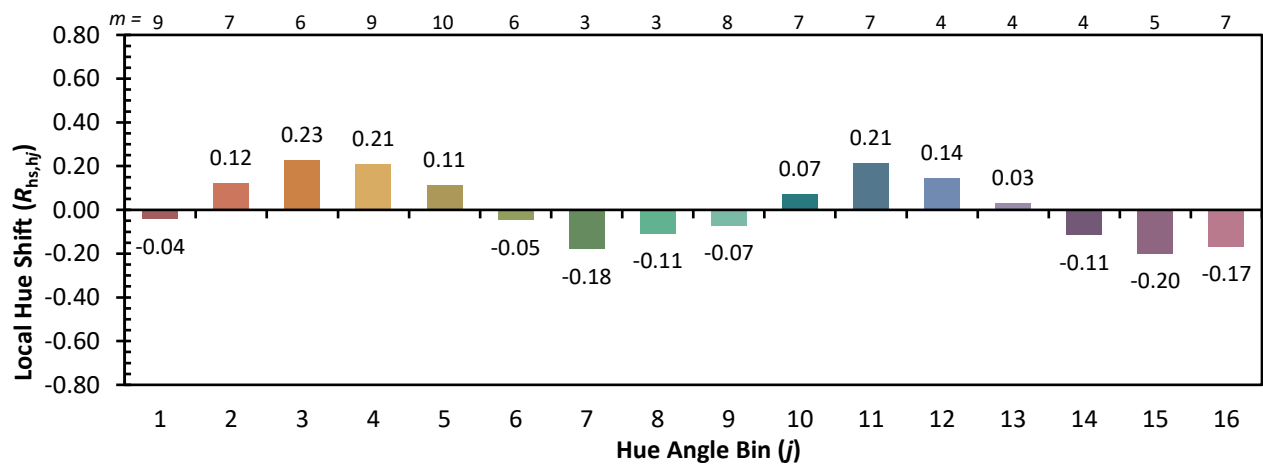
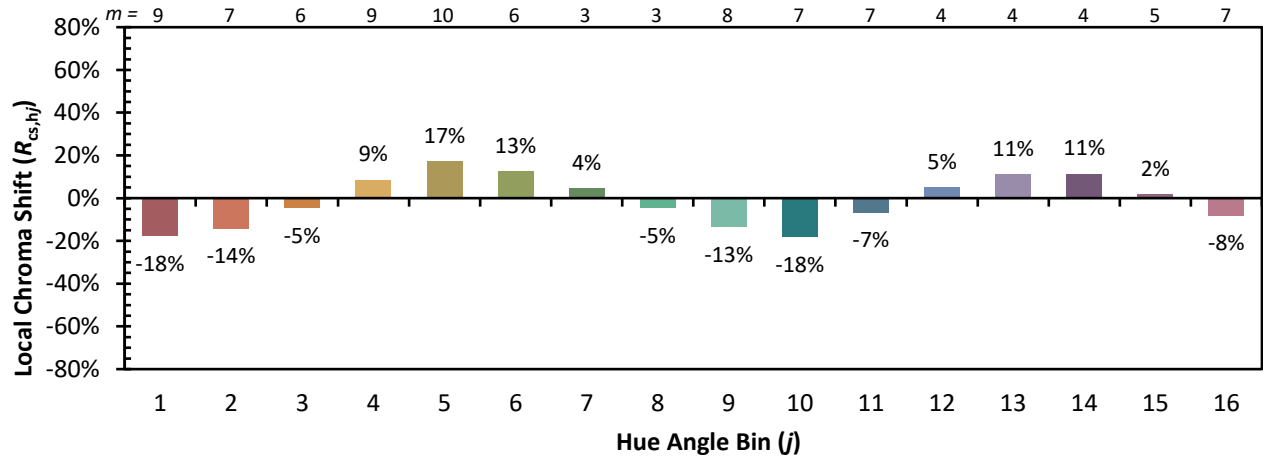


Individual Sample Fidelity Index ($R_{f,i}$)

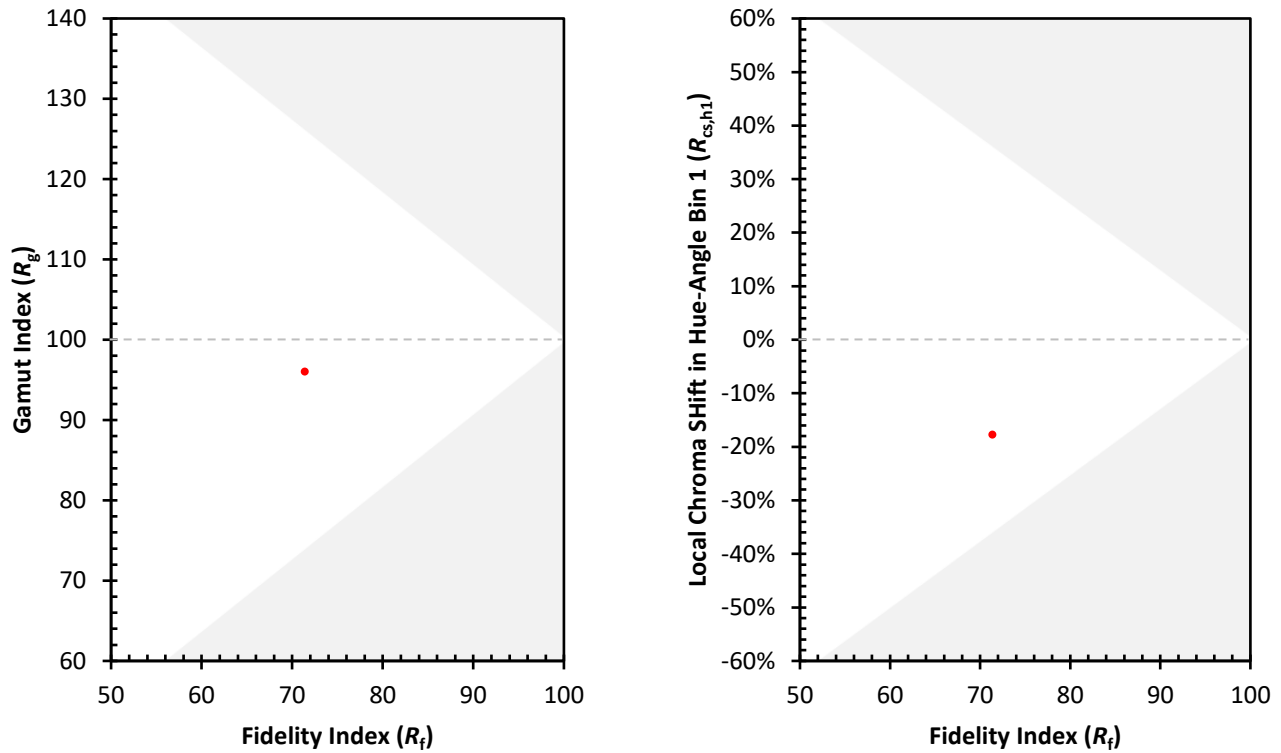
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)