

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: P1067969

Luminaire Tested: **NAV-SA2A-735-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067969
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA2A-735-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5786.1 lumens
Efficiency: N/A
Efficacy: 104.6 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): 55.3
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



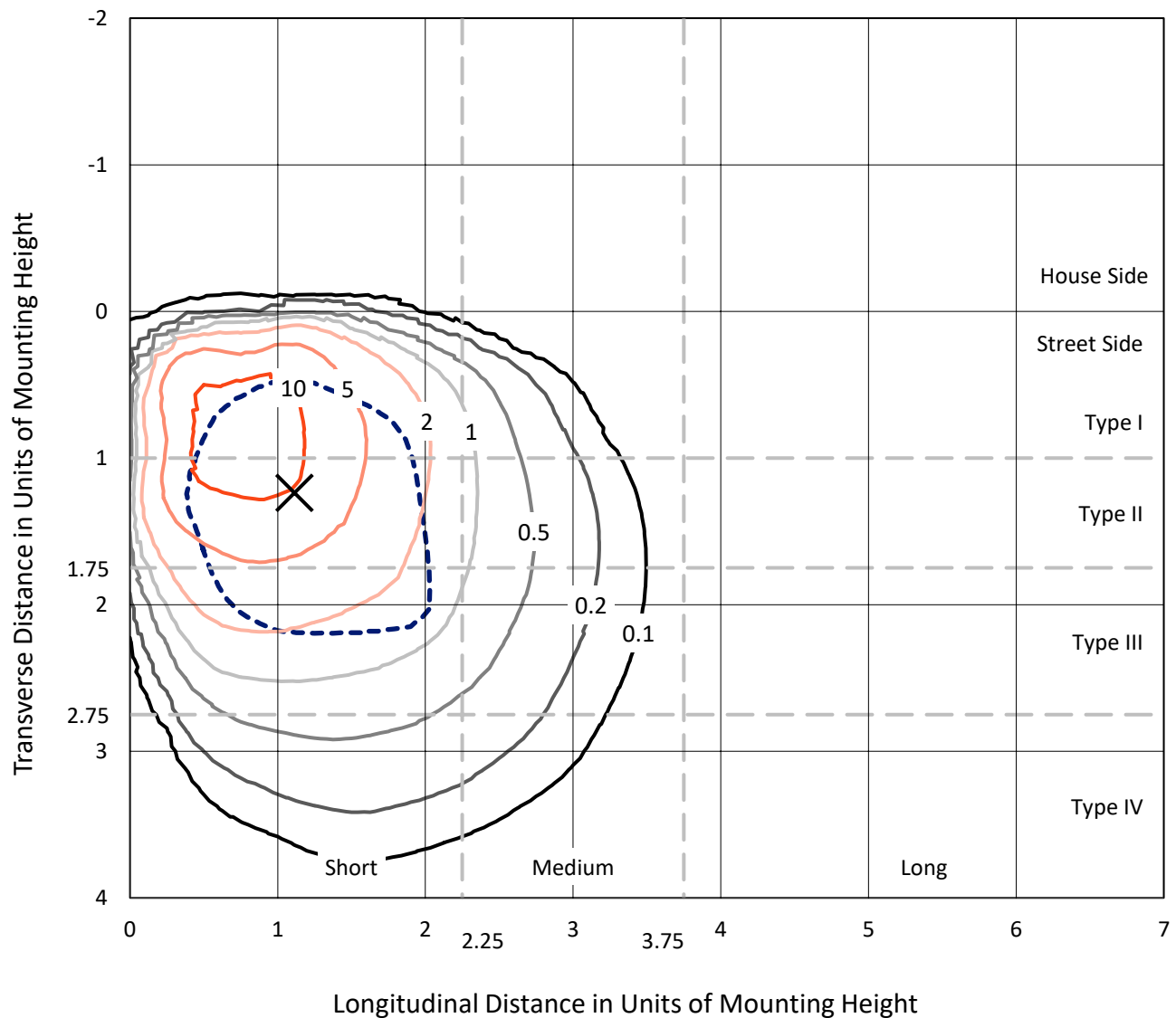
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

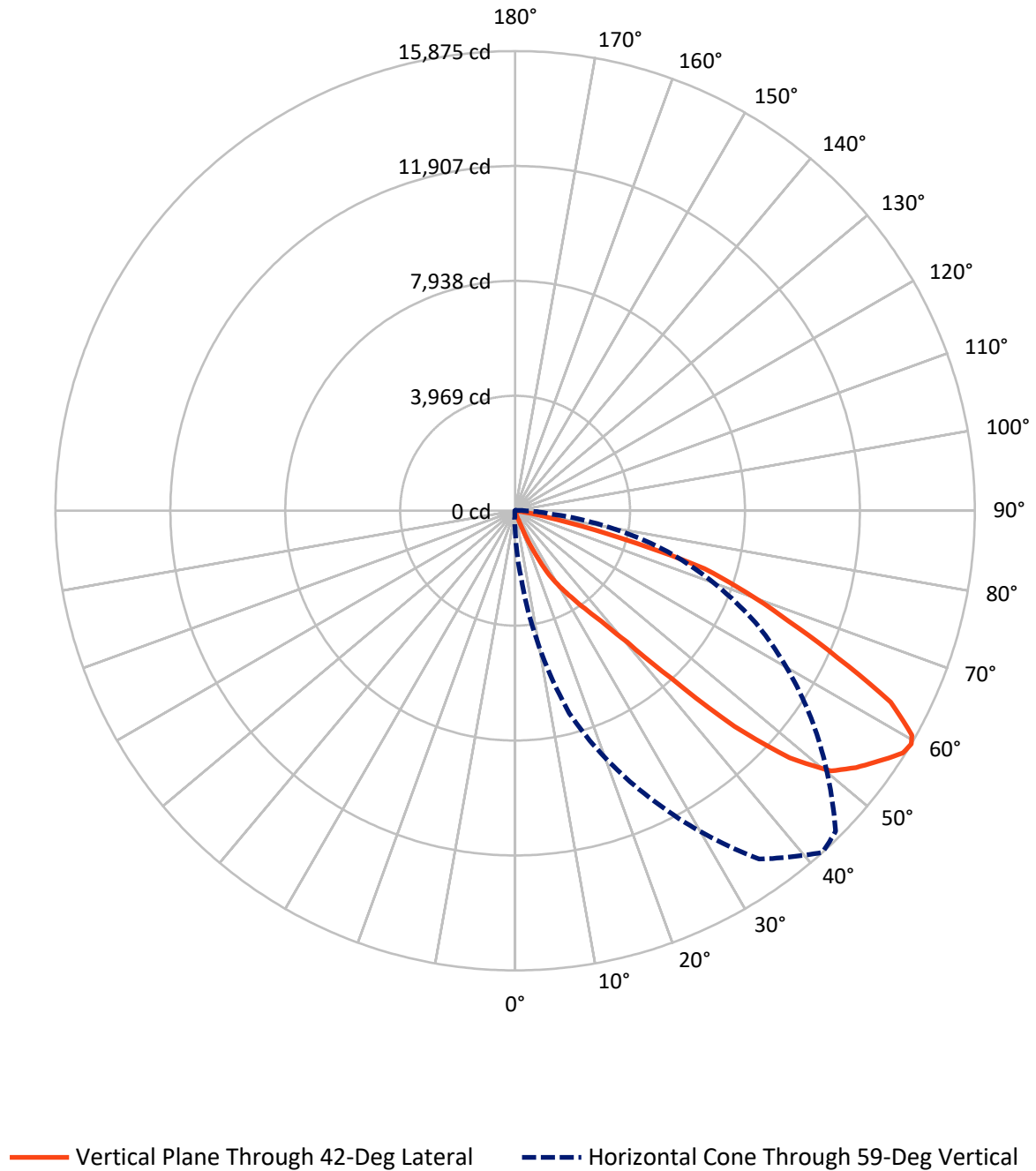


Based on 15 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27.9	0.0	27.9
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	5758.2	0.0	5758.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	5786.1	0.0	5786.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.0
10°-20°	8.4	0.1
20°-30°	107.9	1.9
30°-40°	363.9	6.3
40°-50°	1099.0	19.0
50°-60°	1940.1	33.5
60°-70°	1708.3	29.5
70°-80°	543.7	9.4
80°-90°	13.0	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°	5786.1	100.0
0°-180°	5786.1	100.0



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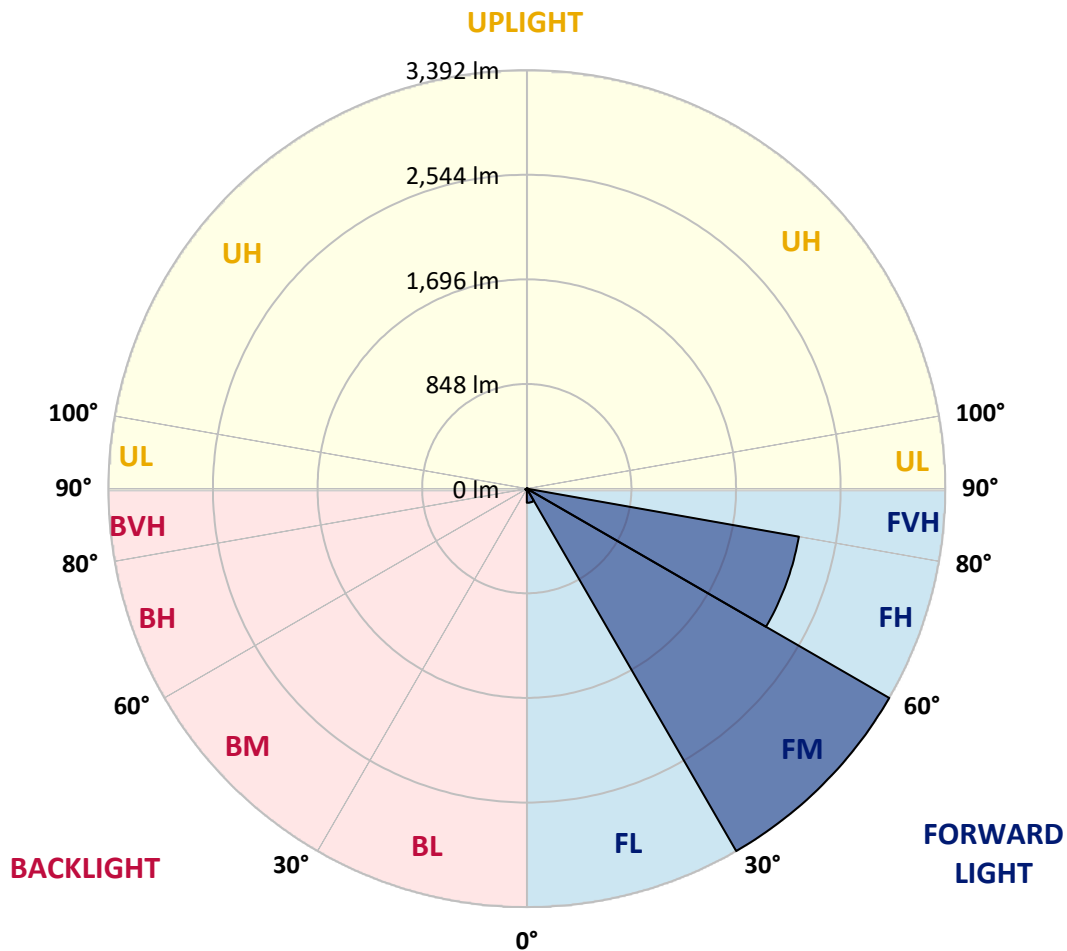
CATALOG NUMBER: NAV-SA2A-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.0	2.0			
FM	(30°-60°)	3391.6	58.6			
FH	(60°-80°)	2239.3	38.7			G2/5000
FVH	(80°-90°)	12.4	0.2			G1/100
BL	(0°-30°)	3.1	0.1	B0/110		
BM	(30°-60°)	11.4	0.2	B0/220		
BH	(60°-80°)	12.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
2.5°	25.4	25.4	23.6	21.8	20.0	18.1	18.1	18.1	16.3	16.3	14.5
5°	29.0	29.0	27.2	25.4	25.4	23.6	23.6	21.8	20.0	20.0	18.1
7.5°	30.8	30.8	30.8	30.8	29.0	29.0	29.0	27.2	25.4	23.6	21.8
10°	32.7	34.5	36.3	36.3	36.3	36.3	36.3	34.5	30.8	29.0	25.4
12.5°	36.3	38.1	41.7	45.4	45.4	47.2	45.4	43.5	39.9	34.5	29.0
15°	39.9	43.5	49.0	56.2	63.5	65.3	65.3	59.9	52.6	41.7	34.5
17.5°	45.4	50.8	65.3	88.9	114.3	134.2	134.2	119.7	83.4	54.4	39.9
20°	49.0	59.9	105.2	214.1	326.5	410.0	393.7	348.3	186.9	85.3	43.5
22.5°	54.4	76.2	223.1	562.4	870.8	1023.2	986.9	749.2	419.1	152.4	52.6
25°	61.7	110.7	442.6	1054.0	1618.2	1783.3	1759.7	1398.7	763.7	255.8	67.1
27.5°	76.2	163.3	709.3	1598.2	2387.4	2528.9	2519.8	2048.1	1220.9	411.8	87.1
30°	96.1	237.7	1052.2	2171.5	2897.2	3040.5	2995.1	2523.4	1647.2	629.5	112.5
32.5°	119.7	332.0	1362.4	2594.2	3367.0	3555.7	3501.3	2937.1	1990.1	814.5	166.9
35°	156.0	424.5	1669.0	2967.9	3909.4	4148.9	4058.2	3363.4	2285.8	1023.2	201.4
37.5°	174.2	478.9	1950.2	3374.3	4519.0	4845.5	4776.6	3902.2	2586.9	1289.8	246.7
40°	176.0	544.2	2242.3	3904.0	5380.7	5963.0	5839.7	4827.4	3147.5	1632.7	317.5
42.5°	181.4	642.2	2621.4	4807.4	7073.3	7909.6	7769.9	6529.0	4419.2	2320.3	449.9
45°	206.8	827.2	3394.2	6496.4	9397.2	10623.5	10462.1	8900.1	6195.2	3613.7	767.4
47.5°	295.7	1244.5	4749.4	8319.6	11773.7	12751.5	12711.6	10768.6	7804.4	4939.9	1300.7
50°	475.3	1910.3	6291.4	9852.5	13286.7	14126.6	14026.8	11548.7	8722.3	5845.1	1667.2
52.5°	634.9	2547.0	7260.1	10416.7	13738.4	14739.8	14618.2	11833.5	8963.6	6111.8	1768.8
55°	674.9	2777.4	7548.6	10590.9	14037.7	15258.6	15082.6	12024.0	8994.4	5921.3	1600.1
57.5°	654.9	2559.7	7361.7	10761.4	14454.9	15792.0	15557.9	12395.9	9097.8	5598.4	1331.6
59°	620.4	2291.2	7245.6	10897.5	14685.3	15875.4	15655.9	12477.6	9166.8	5451.4	1168.3
60°	580.5	2109.8	7154.9	10986.3	14670.8	15744.8	15518.0	12439.5	9194.0	5324.5	1090.3
62.5°	448.1	1683.5	7024.3	10922.8	13754.7	14552.9	14424.1	11507.0	8794.9	4918.1	859.9
65°	348.3	1288.0	6545.4	9741.9	11704.7	12241.7	12201.8	9743.7	7401.6	4239.6	620.4
67.5°	275.7	939.7	5534.9	7889.6	9417.1	10180.9	10151.8	7909.6	5618.3	3240.0	446.3
70°	225.0	669.4	3795.2	5948.5	7532.2	8493.7	8452.0	6365.8	4163.4	2055.4	324.7
72.5°	190.5	428.1	2302.1	4484.5	6285.9	6835.6	6714.1	5135.8	3027.8	1119.3	257.6
75°	161.5	263.0	1141.1	2795.6	3744.4	3740.7	3619.2	2719.4	1625.5	547.9	205.0
77.5°	130.6	185.0	448.1	767.4	1181.0	1462.2	1438.6	963.3	486.2	159.6	127.0
80°	85.3	87.1	119.7	210.4	324.7	359.2	408.2	293.9	141.5	76.2	52.6
82.5°	38.1	41.7	54.4	68.9	68.9	63.5	56.2	41.7	30.8	25.4	12.7
85°	9.1	12.7	9.1	10.9	9.1	7.3	7.3	3.6	0.0	0.0	0.0
87.5°	1.8	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°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
2.5°	14.5	14.5	14.5	12.7	12.7	12.7	10.9	10.9	10.9	9.1	9.1
5°	18.1	16.3	14.5	14.5	12.7	12.7	10.9	9.1	9.1	9.1	7.3
7.5°	20.0	18.1	16.3	14.5	12.7	10.9	10.9	9.1	7.3	7.3	7.3
10°	23.6	21.8	18.1	14.5	12.7	10.9	9.1	9.1	7.3	5.4	5.4
12.5°	27.2	23.6	20.0	16.3	12.7	10.9	9.1	9.1	7.3	5.4	3.6
15°	30.8	27.2	21.8	16.3	12.7	10.9	9.1	9.1	5.4	3.6	1.8
17.5°	34.5	29.0	21.8	18.1	12.7	10.9	9.1	7.3	3.6	1.8	0.0
20°	36.3	30.8	23.6	18.1	12.7	10.9	9.1	5.4	1.8	0.0	0.0
22.5°	39.9	34.5	25.4	18.1	12.7	9.1	5.4	1.8	0.0	0.0	0.0
25°	47.2	36.3	25.4	18.1	12.7	9.1	3.6	0.0	0.0	0.0	0.0
27.5°	52.6	39.9	25.4	18.1	12.7	7.3	1.8	0.0	0.0	0.0	0.0
30°	61.7	43.5	27.2	18.1	12.7	5.4	1.8	0.0	0.0	0.0	0.0
32.5°	76.2	47.2	27.2	18.1	10.9	5.4	0.0	0.0	0.0	0.0	0.0
35°	92.5	54.4	27.2	18.1	10.9	5.4	0.0	0.0	0.0	0.0	0.0
37.5°	94.3	58.1	27.2	18.1	10.9	3.6	0.0	0.0	0.0	0.0	0.0
40°	98.0	54.4	29.0	18.1	10.9	3.6	0.0	0.0	0.0	0.0	0.0
42.5°	112.5	50.8	30.8	18.1	10.9	3.6	0.0	0.0	0.0	0.0	0.0
45°	166.9	52.6	30.8	20.0	10.9	5.4	0.0	0.0	0.0	0.0	0.0
47.5°	290.3	54.4	29.0	20.0	10.9	5.4	0.0	0.0	0.0	0.0	0.0
50°	371.9	63.5	29.0	21.8	12.7	3.6	0.0	0.0	0.0	0.0	0.0
52.5°	395.5	74.4	29.0	23.6	16.3	1.8	0.0	0.0	0.0	0.0	0.0
55°	384.6	87.1	30.8	25.4	20.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	355.6	94.3	32.7	27.2	21.8	0.0	0.0	0.0	0.0	0.0	0.0
59°	324.7	99.8	38.1	29.0	21.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	299.3	105.2	39.9	30.8	21.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	241.3	112.5	43.5	36.3	18.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	210.4	117.9	45.4	39.9	16.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	192.3	121.5	49.0	41.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	177.8	119.7	52.6	39.9	12.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	161.5	114.3	63.5	36.3	10.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	145.1	103.4	68.9	32.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	105.2	87.1	63.5	29.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.4	47.2	45.4	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	10.9	9.1	5.4	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°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
2.5°	9.1	9.1	9.1	9.1	10.9	10.9	14.5	18.1	21.8	23.6	23.6
5°	7.3	7.3	7.3	7.3	7.3	9.1	10.9	14.5	20.0	21.8	21.8
7.5°	5.4	5.4	5.4	5.4	5.4	5.4	9.1	12.7	18.1	20.0	21.8
10°	5.4	3.6	3.6	1.8	1.8	3.6	5.4	10.9	16.3	18.1	20.0
12.5°	3.6	1.8	1.8	0.0	0.0	1.8	3.6	9.1	14.5	16.3	18.1
15°	1.8	0.0	0.0	0.0	0.0	0.0	1.8	7.3	12.7	14.5	18.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.9	14.5	16.3
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	9.1	12.7	14.5
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.3	10.9	12.7
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	7.3	9.1
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.4	7.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	5.4	7.3
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.4
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.4
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	3.6
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
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°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
2.5°	25.4	25.4	23.6	21.8	21.8	21.8	23.6	25.4	25.4	25.4
5°	23.6	23.6	21.8	21.8	21.8	21.8	23.6	27.2	29.0	29.0
7.5°	23.6	23.6	21.8	21.8	21.8	21.8	23.6	27.2	29.0	30.8
10°	21.8	21.8	21.8	21.8	20.0	21.8	23.6	27.2	32.7	32.7
12.5°	21.8	21.8	21.8	21.8	20.0	21.8	25.4	29.0	34.5	36.3
15°	21.8	21.8	21.8	20.0	20.0	21.8	25.4	30.8	36.3	39.9
17.5°	20.0	21.8	21.8	20.0	20.0	21.8	25.4	30.8	39.9	45.4
20°	18.1	20.0	21.8	20.0	20.0	20.0	25.4	30.8	41.7	49.0
22.5°	16.3	18.1	20.0	20.0	18.1	20.0	25.4	32.7	45.4	54.4
25°	14.5	16.3	16.3	18.1	18.1	20.0	25.4	32.7	47.2	61.7
27.5°	10.9	12.7	14.5	16.3	16.3	20.0	25.4	34.5	50.8	76.2
30°	9.1	10.9	12.7	14.5	16.3	20.0	25.4	34.5	54.4	96.1
32.5°	9.1	10.9	12.7	14.5	16.3	18.1	25.4	36.3	59.9	119.7
35°	7.3	9.1	10.9	14.5	14.5	18.1	25.4	36.3	65.3	156.0
37.5°	7.3	9.1	10.9	14.5	14.5	18.1	25.4	36.3	79.8	174.2
40°	5.4	7.3	9.1	14.5	14.5	18.1	27.2	38.1	81.6	176.0
42.5°	5.4	7.3	9.1	12.7	14.5	18.1	27.2	38.1	76.2	181.4
45°	5.4	7.3	9.1	14.5	16.3	20.0	27.2	39.9	74.4	206.8
47.5°	5.4	7.3	9.1	14.5	18.1	20.0	27.2	39.9	76.2	295.7
50°	5.4	7.3	9.1	14.5	20.0	20.0	27.2	39.9	83.4	475.3
52.5°	3.6	5.4	7.3	12.7	16.3	21.8	29.0	38.1	88.9	634.9
55°	3.6	3.6	5.4	10.9	14.5	23.6	30.8	38.1	103.4	674.9
57.5°	3.6	3.6	5.4	9.1	12.7	25.4	32.7	38.1	119.7	654.9
59°	3.6	3.6	3.6	9.1	10.9	25.4	32.7	39.9	121.5	620.4
60°	3.6	3.6	3.6	7.3	10.9	25.4	34.5	41.7	123.4	580.5
62.5°	1.8	1.8	1.8	7.3	9.1	25.4	38.1	50.8	127.0	448.1
65°	3.6	3.6	1.8	5.4	9.1	21.8	43.5	54.4	128.8	348.3
67.5°	3.6	3.6	3.6	7.3	9.1	21.8	45.4	56.2	128.8	275.7
70°	3.6	3.6	3.6	7.3	10.9	21.8	45.4	58.1	127.0	225.0
72.5°	3.6	3.6	3.6	7.3	10.9	20.0	41.7	59.9	121.5	190.5
75°	3.6	3.6	3.6	5.4	9.1	18.1	39.9	65.3	110.7	161.5
77.5°	3.6	3.6	3.6	3.6	7.3	14.5	36.3	72.6	98.0	130.6
80°	5.4	3.6	3.6	3.6	5.4	12.7	34.5	70.8	81.6	85.3
82.5°	5.4	3.6	3.6	1.8	3.6	9.1	27.2	54.4	41.7	38.1
85°	3.6	3.6	3.6	1.8	1.8	5.4	12.7	16.3	12.7	9.1
87.5°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: SP1-2407-184-5

Test Date: 10/10/2024

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

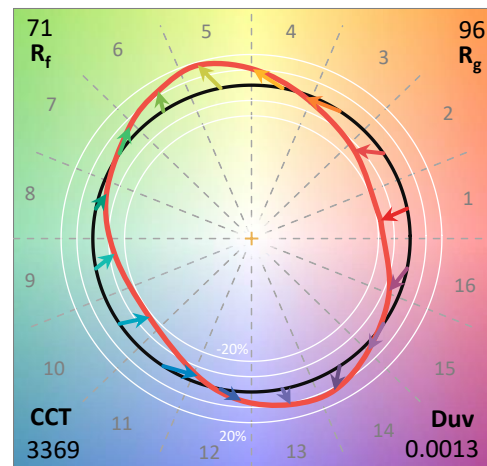
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



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

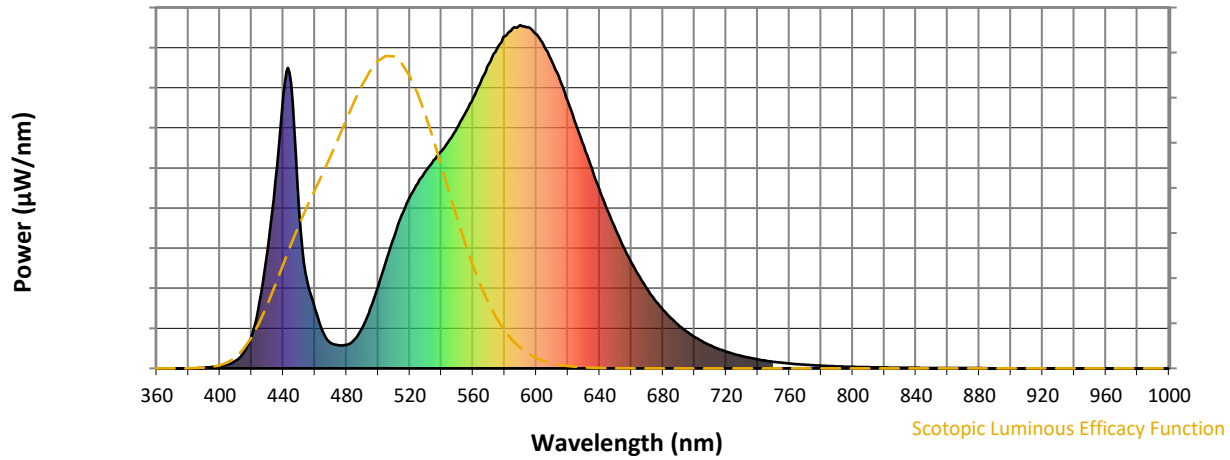


Photopic Lumens: NR

λ (nm)	Power 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

Scotopic Flux vs. Wavelength



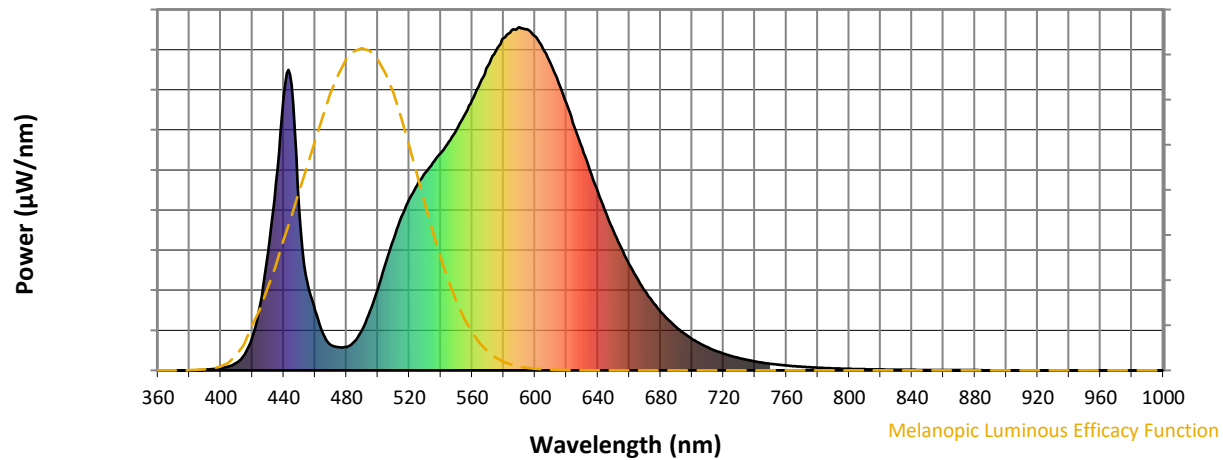
Scotopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.36

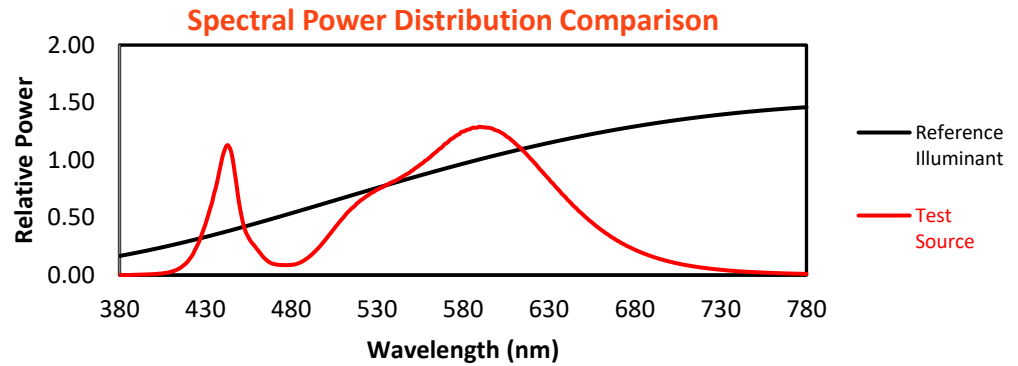
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	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

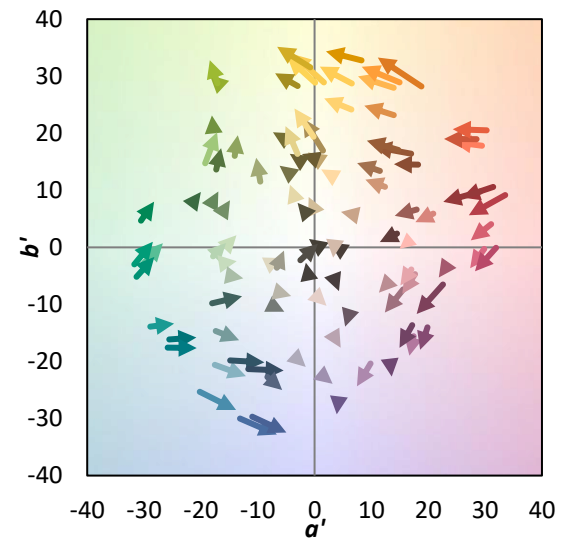
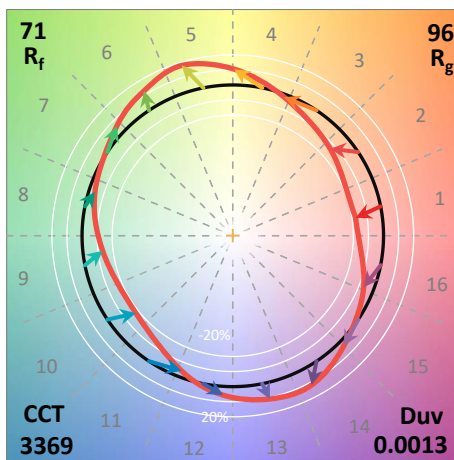
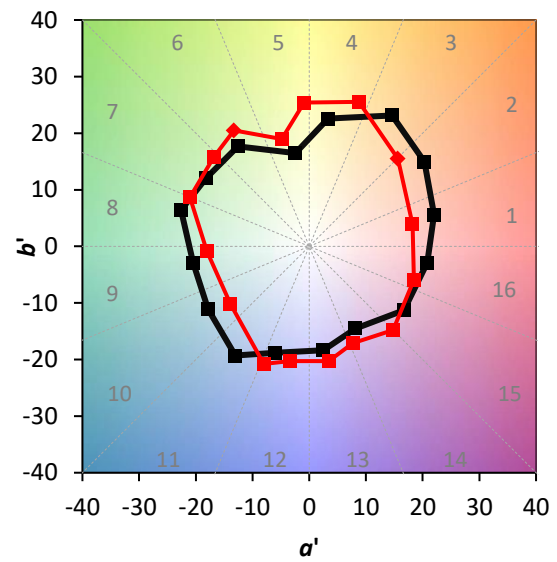
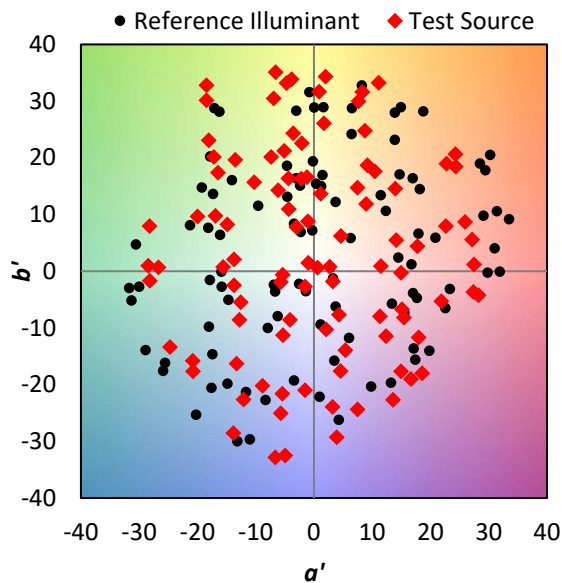
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 $CIE R_a = 70.1$
 $R_g = -40.2$

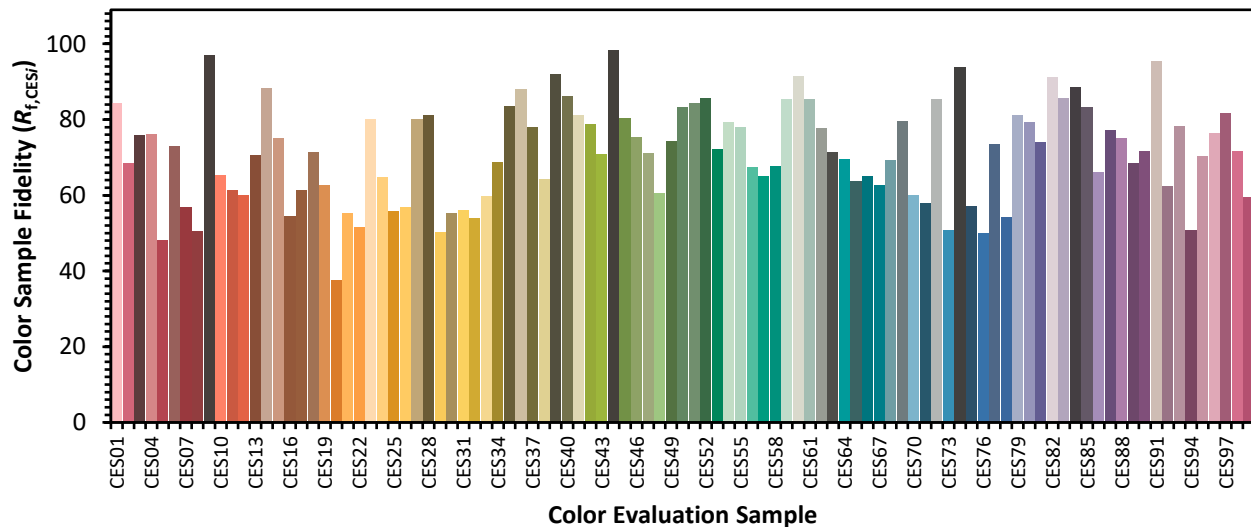


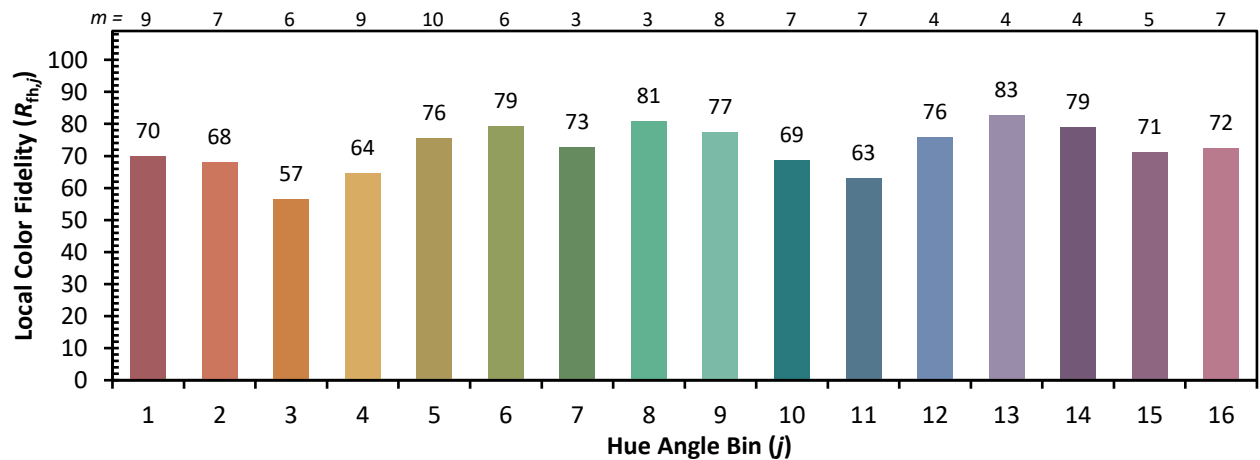
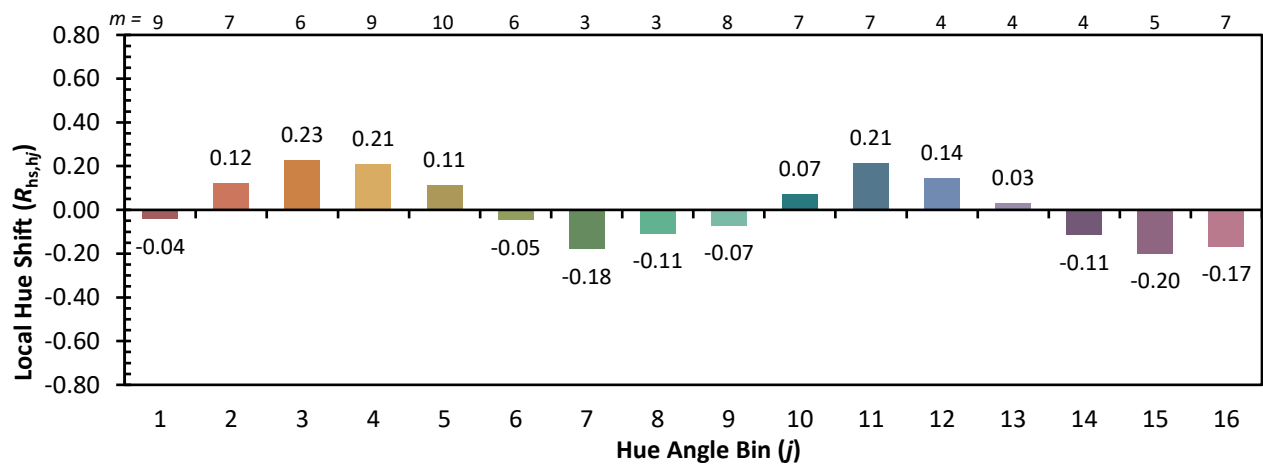
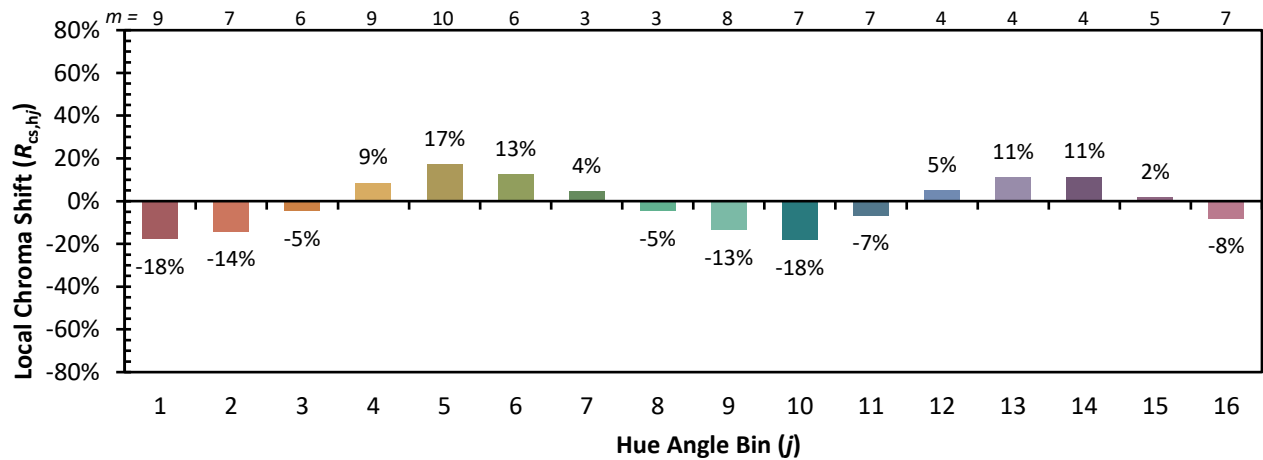
Color Vector Graphics



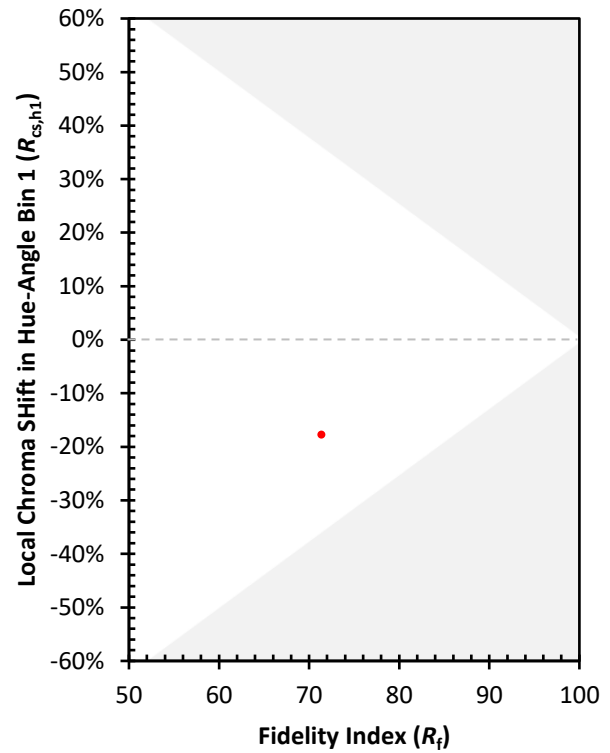
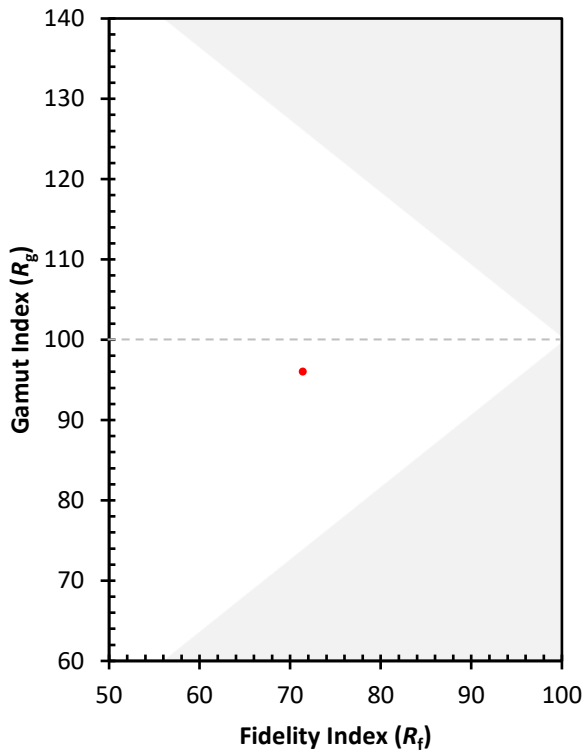
Individual Sample Fidelity Index ($R_{f,i}$)

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)