

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: P1067941

Luminaire Tested: **NAV-SA1A-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067941
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1A-730-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 1xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2904 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 29.2
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

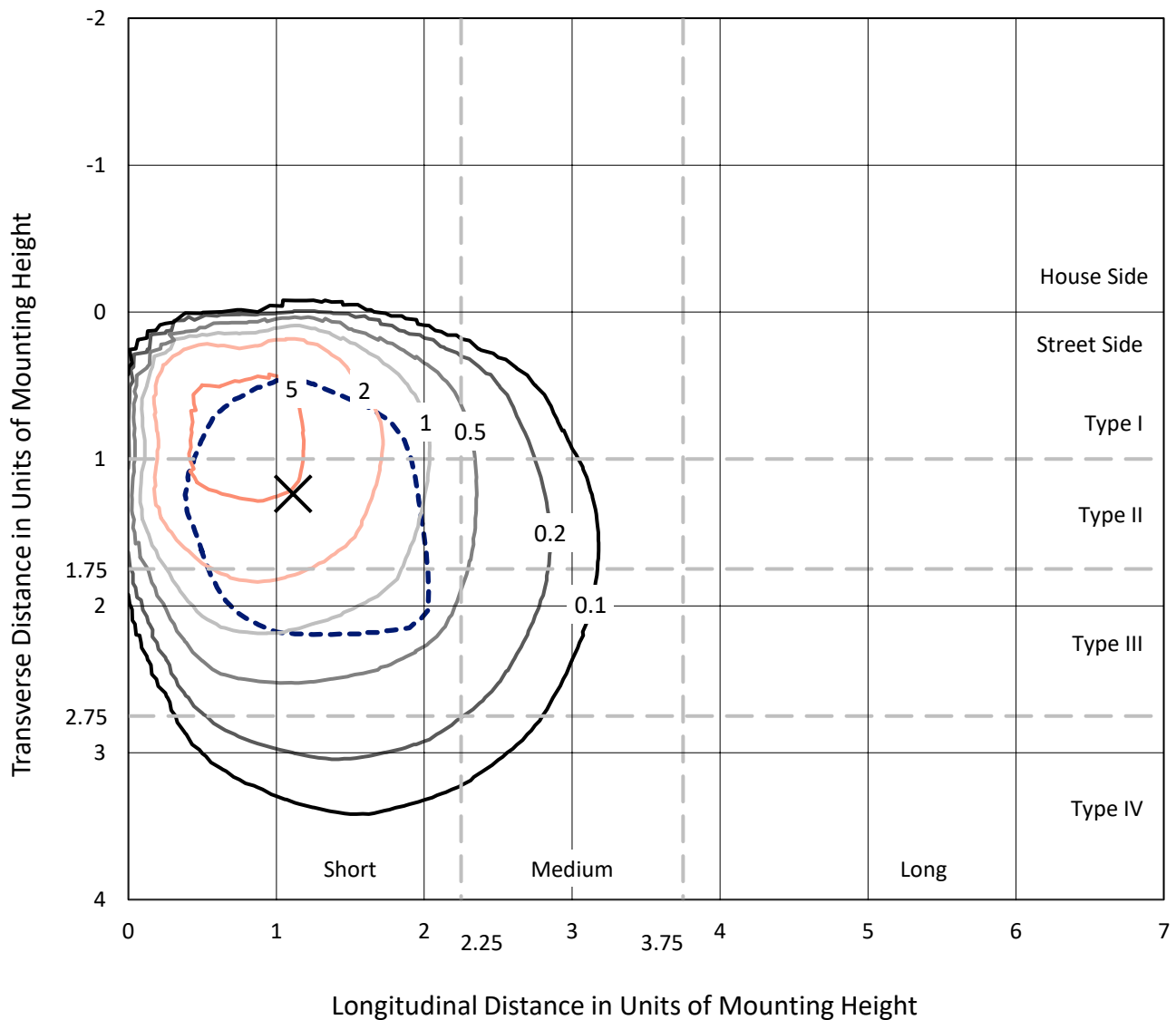


REPORT NUMBER: P1067941

CATALOG NUMBER: NAV-SA1A-730-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

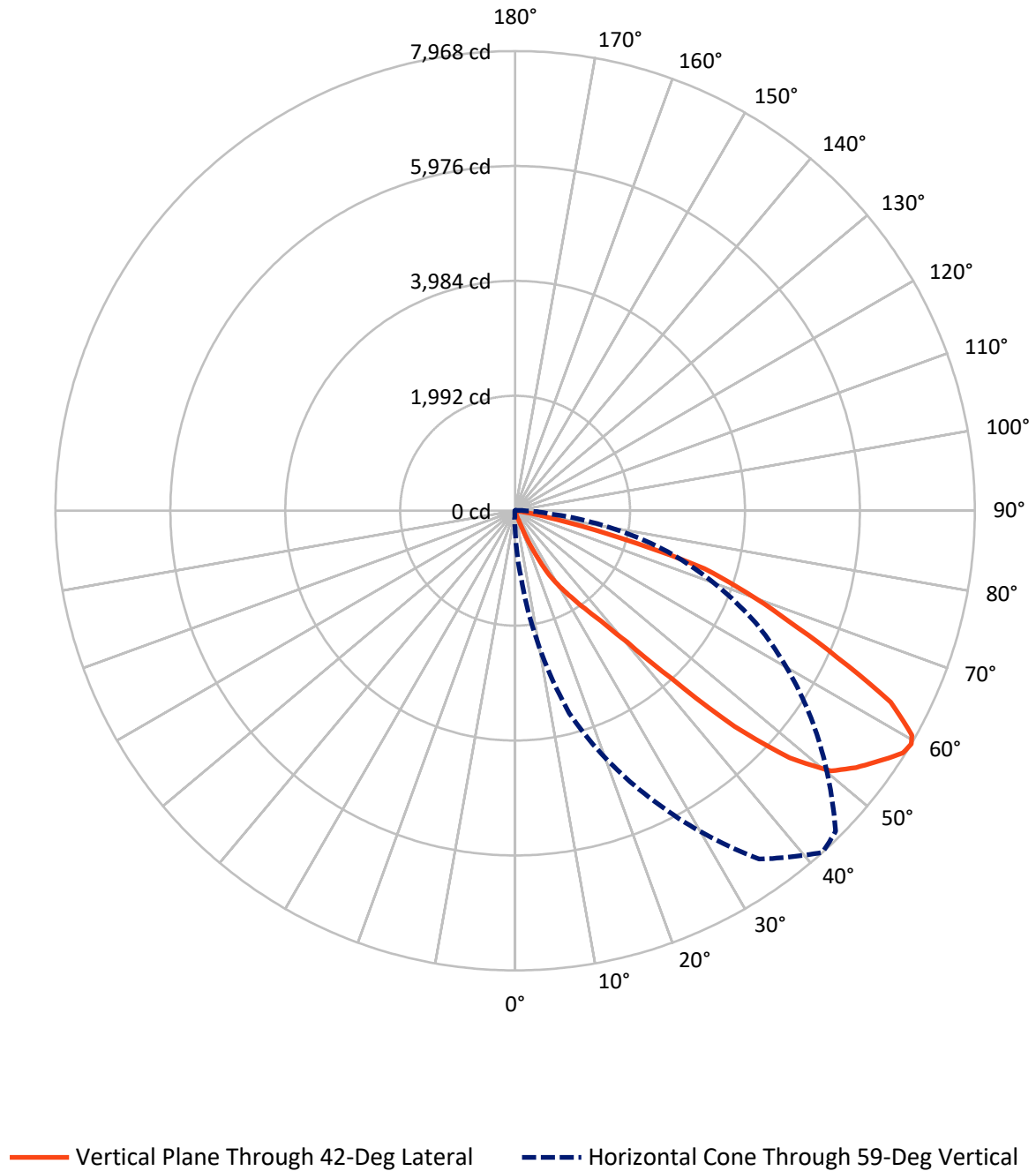


Based on 15 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

REPORT NUMBER: P1067941

CATALOG NUMBER: NAV-SA1A-730-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1067941

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14.0	0.0	14.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	2890.0	0.0	2890.0
	% Fixture	99.5	0.0	99.5
Total	Lumens	2904.0	0.0	2904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.0
10°-20°	4.2	0.1
20°-30°	54.2	1.9
30°-40°	182.6	6.3
40°-50°	551.6	19.0
50°-60°	973.7	33.5
60°-70°	857.4	29.5
70°-80°	272.9	9.4
80°-90°	6.5	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°	2904.0	100.0
0°-180°	2904.0	100.0



REPORT NUMBER: P1067941

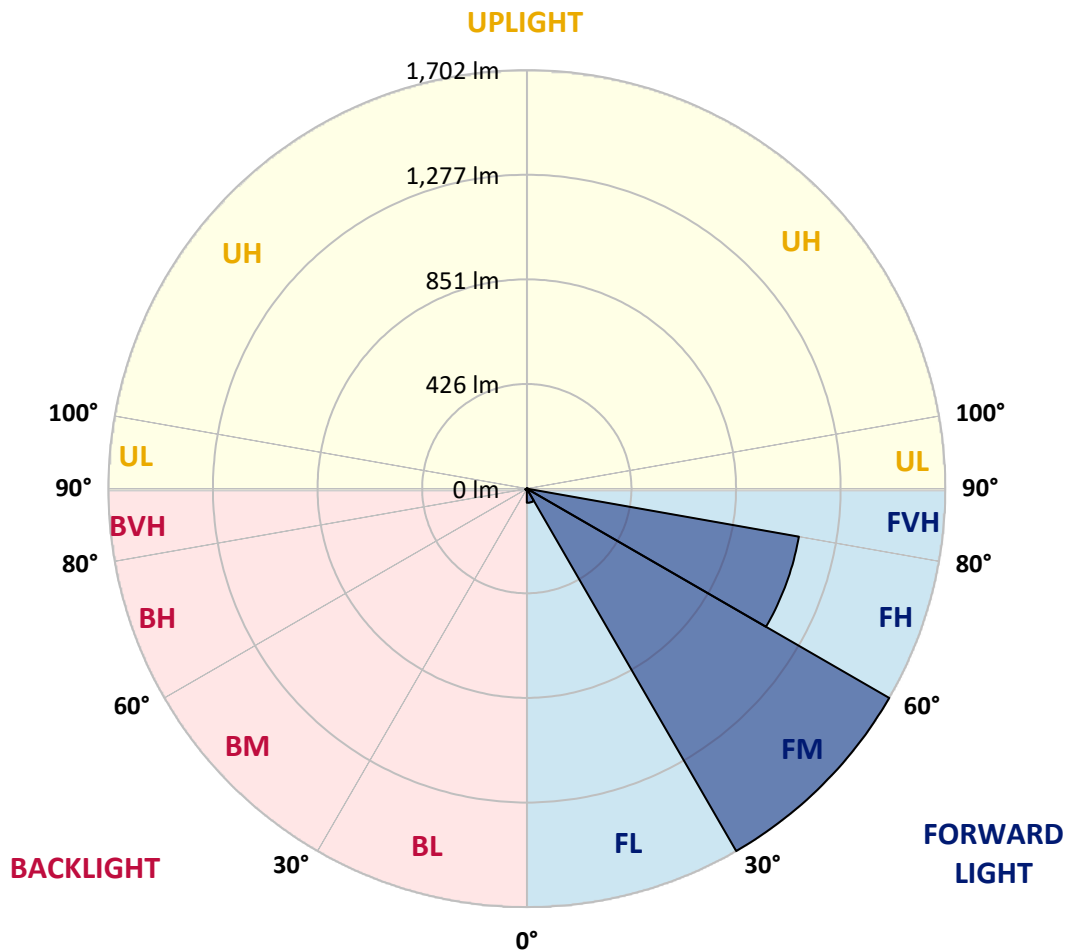
CATALOG NUMBER: NAV-SA1A-730-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.7	2.0			
FM	(30°-60°)	1702.2	58.6			
FH	(60°-80°)	1123.9	38.7			G1/1800
FVH	(80°-90°)	6.2	0.2			G0/10
BL	(0°-30°)	1.6	0.1	B0/110		
BM	(30°-60°)	5.7	0.2	B0/220		
BH	(60°-80°)	6.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



REPORT NUMBER: P1067941

CATALOG NUMBER: NAV-SA1A-730-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	42°	45°	55°	65°	75°	85°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	12.7	12.7	11.8	10.9	10.0	9.1	9.1	9.1	8.2	8.2	7.3
5°	14.6	14.6	13.7	12.7	12.7	11.8	11.8	10.9	10.0	10.0	9.1
7.5°	15.5	15.5	15.5	15.5	14.6	14.6	14.6	13.7	12.7	11.8	10.9
10°	16.4	17.3	18.2	18.2	18.2	18.2	18.2	17.3	15.5	14.6	12.7
12.5°	18.2	19.1	20.9	22.8	22.8	23.7	22.8	21.9	20.0	17.3	14.6
15°	20.0	21.9	24.6	28.2	31.9	32.8	32.8	30.0	26.4	20.9	17.3
17.5°	22.8	25.5	32.8	44.6	57.4	67.4	67.4	60.1	41.9	27.3	20.0
20°	24.6	30.0	52.8	107.4	163.9	205.8	197.6	174.8	93.8	42.8	21.9
22.5°	27.3	38.2	112.0	282.3	437.0	513.5	495.3	376.0	210.3	76.5	26.4
25°	31.0	55.5	222.2	529.0	812.2	895.0	883.2	702.0	383.3	128.4	33.7
27.5°	38.2	81.9	356.0	802.2	1198.2	1269.2	1264.7	1028.0	612.8	206.7	43.7
30°	48.3	119.3	528.1	1089.9	1454.1	1526.0	1503.2	1266.5	826.7	315.9	56.5
32.5°	60.1	166.6	683.8	1302.0	1689.9	1784.6	1757.3	1474.1	998.8	408.8	83.8
35°	78.3	213.1	837.7	1489.6	1962.1	2082.3	2036.8	1688.1	1147.2	513.5	101.1
37.5°	87.4	240.4	978.8	1693.5	2268.1	2432.0	2397.4	1958.5	1298.4	647.4	123.8
40°	88.3	273.2	1125.4	1959.4	2700.6	2992.8	2930.9	2422.8	1579.7	819.5	159.3
42.5°	91.1	322.3	1315.7	2412.8	3550.0	3969.8	3899.7	3276.9	2218.0	1164.5	225.8
45°	103.8	415.2	1703.5	3260.5	4716.4	5331.9	5250.9	4466.9	3109.4	1813.7	385.1
47.5°	148.4	624.6	2383.7	4175.6	5909.2	6399.9	6379.9	5404.7	3917.0	2479.3	652.8
50°	238.6	958.8	3157.6	4944.9	6668.5	7090.1	7040.0	5796.3	4377.7	2933.6	836.8
52.5°	318.7	1278.3	3643.8	5228.1	6895.2	7397.8	7336.8	5939.2	4498.8	3067.5	887.7
55°	338.7	1394.0	3788.6	5315.5	7045.5	7658.2	7569.9	6034.8	4514.3	2971.9	803.1
57.5°	328.7	1284.7	3694.8	5401.1	7254.9	7925.9	7808.5	6221.5	4566.2	2809.8	668.3
59°	311.4	1150.0	3636.5	5469.4	7370.5	7967.8	7857.6	6262.4	4600.8	2736.1	586.4
60°	291.4	1058.9	3591.0	5514.0	7363.2	7902.3	7788.4	6243.3	4614.4	2672.3	547.2
62.5°	224.9	844.9	3525.5	5482.1	6903.4	7304.0	7239.4	5775.3	4414.1	2468.4	431.6
65°	174.8	646.5	3285.1	4889.4	5874.6	6144.1	6124.0	4890.3	3714.8	2127.8	311.4
67.5°	138.4	471.6	2777.9	3959.8	4726.4	5109.7	5095.2	3969.8	2819.8	1626.2	224.0
70°	112.9	336.0	1904.8	2985.5	3780.4	4263.0	4242.0	3195.0	2089.6	1031.6	163.0
72.5°	95.6	214.9	1155.4	2250.8	3154.9	3430.8	3369.8	2577.6	1519.6	561.8	129.3
75°	81.0	132.0	572.7	1403.1	1879.3	1877.5	1816.5	1364.8	815.8	275.0	102.9
77.5°	65.6	92.9	224.9	385.1	592.7	733.9	722.0	483.5	244.0	80.1	63.7
80°	42.8	43.7	60.1	105.6	163.0	180.3	204.9	147.5	71.0	38.2	26.4
82.5°	19.1	20.9	27.3	34.6	34.6	31.9	28.2	20.9	15.5	12.7	6.4
85°	4.6	6.4	4.6	5.5	4.6	3.6	3.6	1.8	0.0	0.0	0.0
87.5°	0.9	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



REPORT NUMBER: P1067941

CATALOG NUMBER: NAV-SA1A-730-U-LBC

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	7.3	7.3	7.3	6.4	6.4	6.4	5.5	5.5	5.5	4.6	4.6
5°	9.1	8.2	7.3	7.3	6.4	6.4	5.5	4.6	4.6	4.6	3.6
7.5°	10.0	9.1	8.2	7.3	6.4	5.5	5.5	4.6	3.6	3.6	3.6
10°	11.8	10.9	9.1	7.3	6.4	5.5	4.6	4.6	3.6	2.7	2.7
12.5°	13.7	11.8	10.0	8.2	6.4	5.5	4.6	4.6	3.6	2.7	1.8
15°	15.5	13.7	10.9	8.2	6.4	5.5	4.6	4.6	2.7	1.8	0.9
17.5°	17.3	14.6	10.9	9.1	6.4	5.5	4.6	3.6	1.8	0.9	0.0
20°	18.2	15.5	11.8	9.1	6.4	5.5	4.6	2.7	0.9	0.0	0.0
22.5°	20.0	17.3	12.7	9.1	6.4	4.6	2.7	0.9	0.0	0.0	0.0
25°	23.7	18.2	12.7	9.1	6.4	4.6	1.8	0.0	0.0	0.0	0.0
27.5°	26.4	20.0	12.7	9.1	6.4	3.6	0.9	0.0	0.0	0.0	0.0
30°	31.0	21.9	13.7	9.1	6.4	2.7	0.9	0.0	0.0	0.0	0.0
32.5°	38.2	23.7	13.7	9.1	5.5	2.7	0.0	0.0	0.0	0.0	0.0
35°	46.4	27.3	13.7	9.1	5.5	2.7	0.0	0.0	0.0	0.0	0.0
37.5°	47.3	29.1	13.7	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
40°	49.2	27.3	14.6	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
42.5°	56.5	25.5	15.5	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
45°	83.8	26.4	15.5	10.0	5.5	2.7	0.0	0.0	0.0	0.0	0.0
47.5°	145.7	27.3	14.6	10.0	5.5	2.7	0.0	0.0	0.0	0.0	0.0
50°	186.7	31.9	14.6	10.9	6.4	1.8	0.0	0.0	0.0	0.0	0.0
52.5°	198.5	37.3	14.6	11.8	8.2	0.9	0.0	0.0	0.0	0.0	0.0
55°	193.0	43.7	15.5	12.7	10.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	178.5	47.3	16.4	13.7	10.9	0.0	0.0	0.0	0.0	0.0	0.0
59°	163.0	50.1	19.1	14.6	10.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	150.2	52.8	20.0	15.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	121.1	56.5	21.9	18.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
65°	105.6	59.2	22.8	20.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	96.5	61.0	24.6	20.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	89.2	60.1	26.4	20.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	81.0	57.4	31.9	18.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	72.8	51.9	34.6	16.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	52.8	43.7	31.9	14.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.8	23.7	22.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	5.5	4.6	2.7	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



REPORT NUMBER: P1067941

CATALOG NUMBER: NAV-SA1A-730-U-LBC

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	4.6	4.6	4.6	4.6	5.5	5.5	7.3	9.1	10.9	11.8	11.8
5°	3.6	3.6	3.6	3.6	3.6	4.6	5.5	7.3	10.0	10.9	10.9
7.5°	2.7	2.7	2.7	2.7	2.7	2.7	4.6	6.4	9.1	10.0	10.9
10°	2.7	1.8	1.8	0.9	0.9	1.8	2.7	5.5	8.2	9.1	10.0
12.5°	1.8	0.9	0.9	0.0	0.0	0.9	1.8	4.6	7.3	8.2	9.1
15°	0.9	0.0	0.0	0.0	0.0	0.0	0.9	3.6	6.4	7.3	9.1
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.5	7.3	8.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.6	6.4	7.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.6	5.5	6.4
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.6	4.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.7	3.6
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.7	3.6
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.7
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.7
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1067941

CATALOG NUMBER: NAV-SA1A-730-U-LBC

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	318°	325°	335°	345°	355°	360°
0°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	12.7	12.7	11.8	10.9	10.9	10.9	11.8	12.7	12.7	12.7
5°	11.8	11.8	10.9	10.9	10.9	10.9	11.8	13.7	14.6	14.6
7.5°	11.8	11.8	10.9	10.9	10.9	10.9	11.8	13.7	14.6	15.5
10°	10.9	10.9	10.9	10.9	10.0	10.9	11.8	13.7	16.4	16.4
12.5°	10.9	10.9	10.9	10.9	10.0	10.9	12.7	14.6	17.3	18.2
15°	10.9	10.9	10.9	10.0	10.0	10.9	12.7	15.5	18.2	20.0
17.5°	10.0	10.9	10.9	10.0	10.0	10.9	12.7	15.5	20.0	22.8
20°	9.1	10.0	10.9	10.0	10.0	10.0	12.7	15.5	20.9	24.6
22.5°	8.2	9.1	10.0	10.0	9.1	10.0	12.7	16.4	22.8	27.3
25°	7.3	8.2	8.2	9.1	9.1	10.0	12.7	16.4	23.7	31.0
27.5°	5.5	6.4	7.3	8.2	8.2	10.0	12.7	17.3	25.5	38.2
30°	4.6	5.5	6.4	7.3	8.2	10.0	12.7	17.3	27.3	48.3
32.5°	4.6	5.5	6.4	7.3	8.2	9.1	12.7	18.2	30.0	60.1
35°	3.6	4.6	5.5	7.3	7.3	9.1	12.7	18.2	32.8	78.3
37.5°	3.6	4.6	5.5	7.3	7.3	9.1	12.7	18.2	40.1	87.4
40°	2.7	3.6	4.6	7.3	7.3	9.1	13.7	19.1	41.0	88.3
42.5°	2.7	3.6	4.6	6.4	7.3	9.1	13.7	19.1	38.2	91.1
45°	2.7	3.6	4.6	7.3	8.2	10.0	13.7	20.0	37.3	103.8
47.5°	2.7	3.6	4.6	7.3	9.1	10.0	13.7	20.0	38.2	148.4
50°	2.7	3.6	4.6	7.3	10.0	10.0	13.7	20.0	41.9	238.6
52.5°	1.8	2.7	3.6	6.4	8.2	10.9	14.6	19.1	44.6	318.7
55°	1.8	1.8	2.7	5.5	7.3	11.8	15.5	19.1	51.9	338.7
57.5°	1.8	1.8	2.7	4.6	6.4	12.7	16.4	19.1	60.1	328.7
59°	1.8	1.8	1.8	4.6	5.5	12.7	16.4	20.0	61.0	311.4
60°	1.8	1.8	1.8	3.6	5.5	12.7	17.3	20.9	61.9	291.4
62.5°	0.9	0.9	0.9	3.6	4.6	12.7	19.1	25.5	63.7	224.9
65°	1.8	1.8	0.9	2.7	4.6	10.9	21.9	27.3	64.6	174.8
67.5°	1.8	1.8	1.8	3.6	4.6	10.9	22.8	28.2	64.6	138.4
70°	1.8	1.8	1.8	3.6	5.5	10.9	22.8	29.1	63.7	112.9
72.5°	1.8	1.8	1.8	3.6	5.5	10.0	20.9	30.0	61.0	95.6
75°	1.8	1.8	1.8	2.7	4.6	9.1	20.0	32.8	55.5	81.0
77.5°	1.8	1.8	1.8	1.8	3.6	7.3	18.2	36.4	49.2	65.6
80°	2.7	1.8	1.8	1.8	2.7	6.4	17.3	35.5	41.0	42.8
82.5°	2.7	1.8	1.8	0.9	1.8	4.6	13.7	27.3	20.9	19.1
85°	1.8	1.8	1.8	0.9	0.9	2.7	6.4	8.2	6.4	4.6
87.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

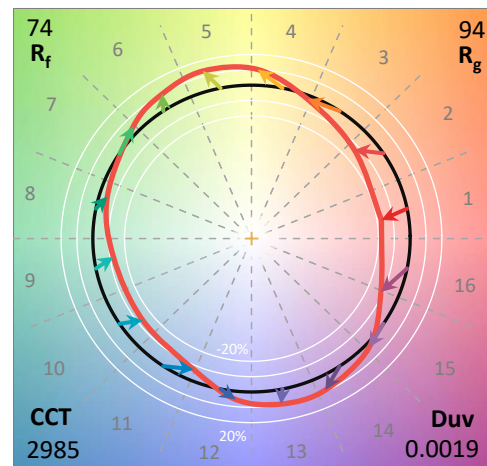
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3000K CCT 26 LEDS

Spectral Parameters

CCT (K):	2985	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

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: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

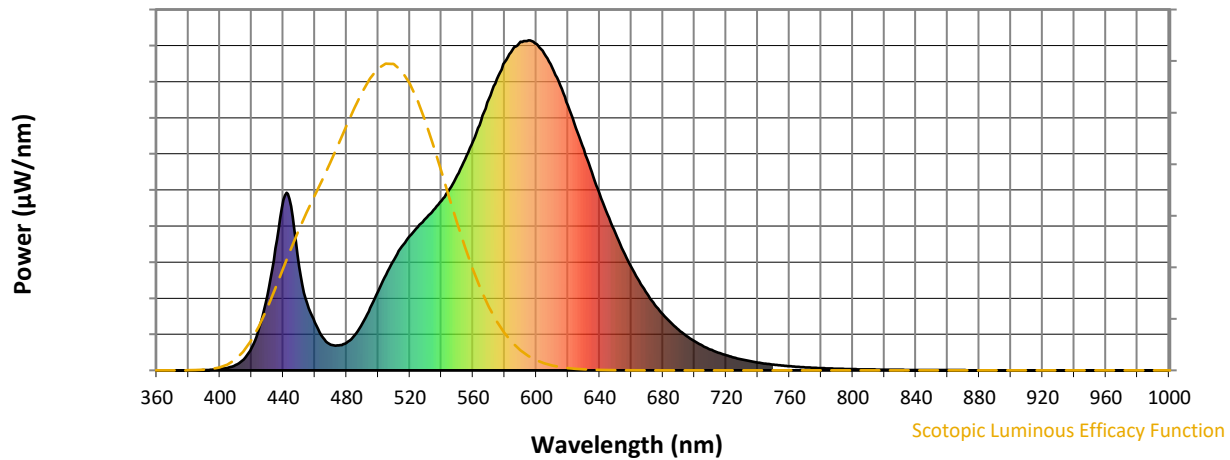


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



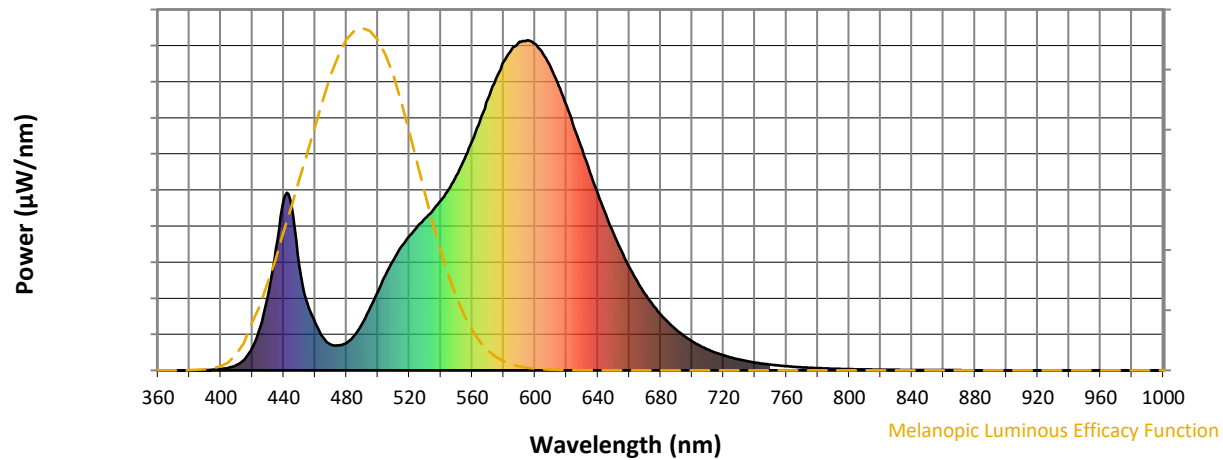
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

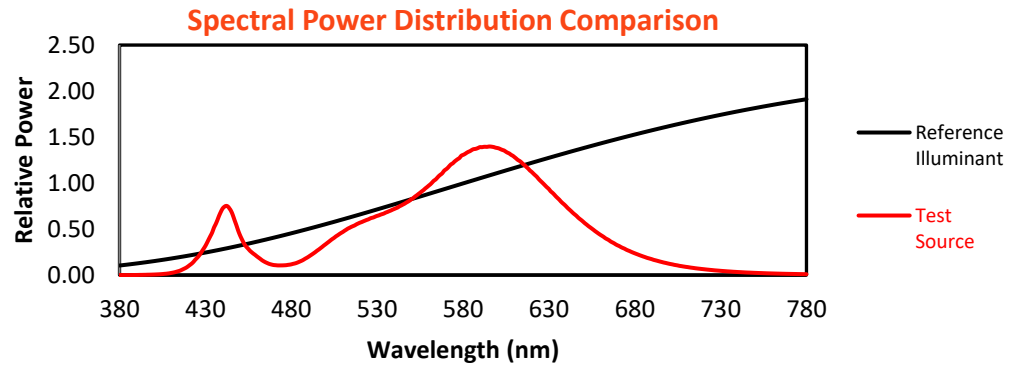
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

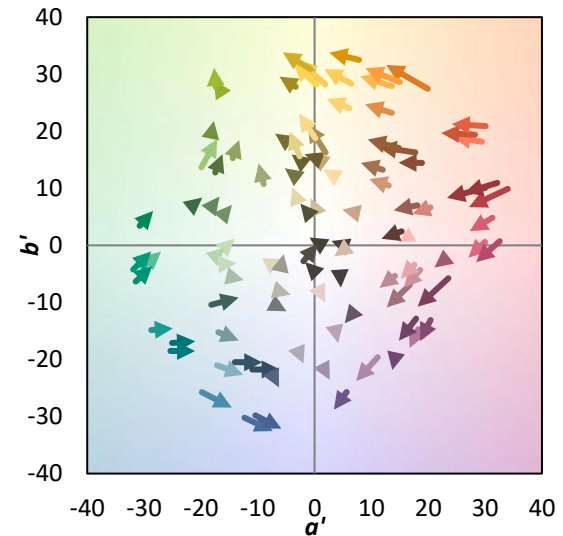
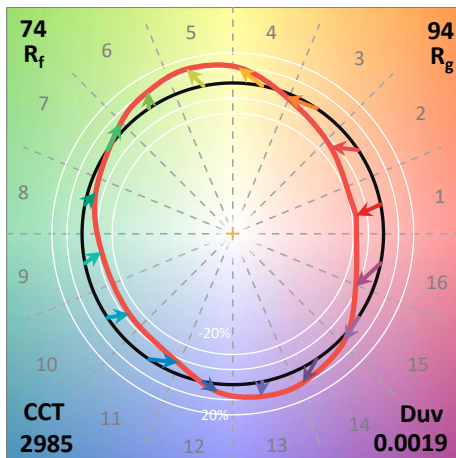
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE\ R_a = 70.8$
 $R_g = -43.2$

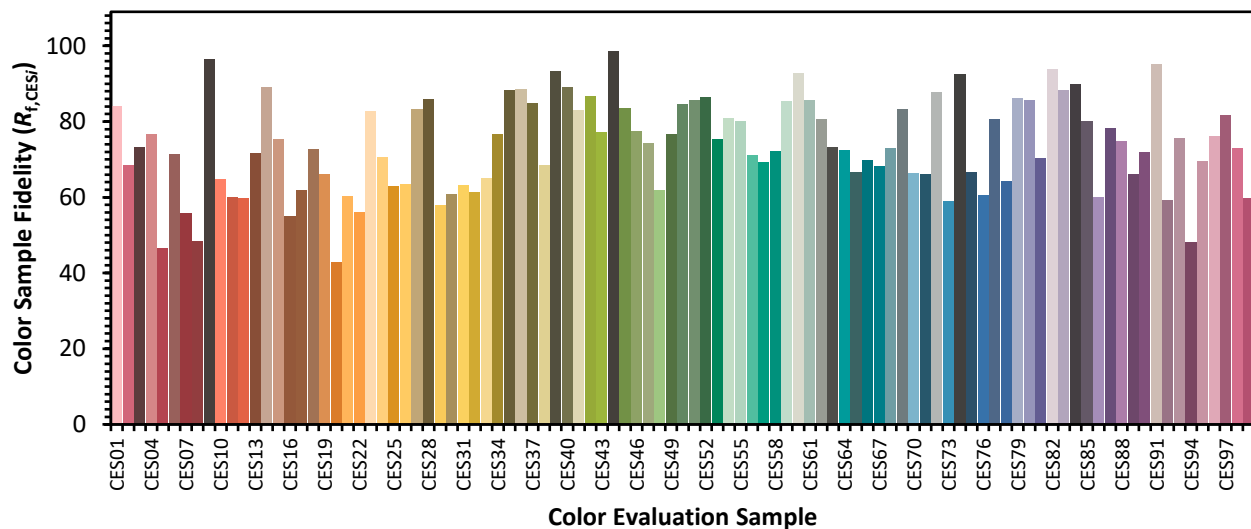


Color Vector Graphics

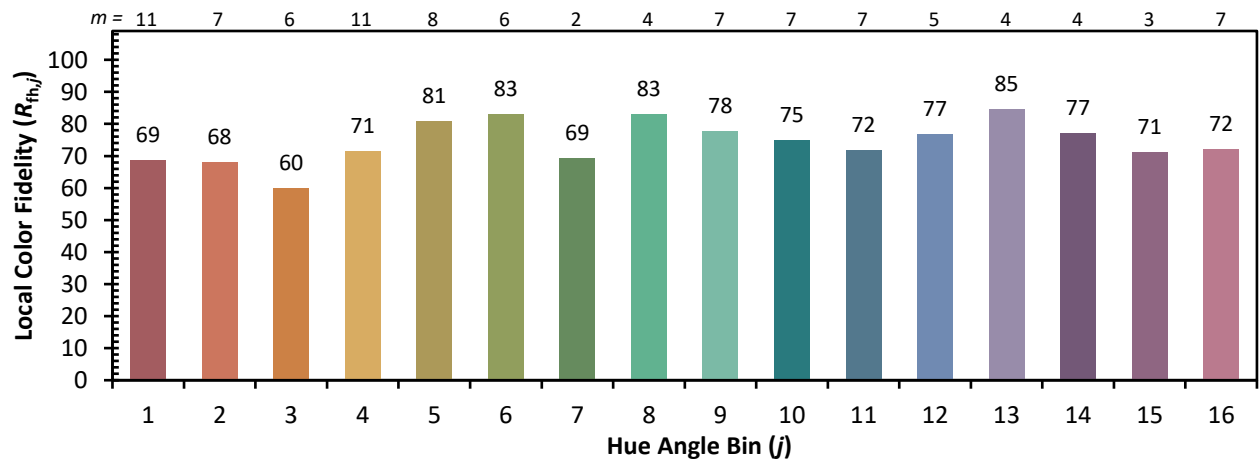
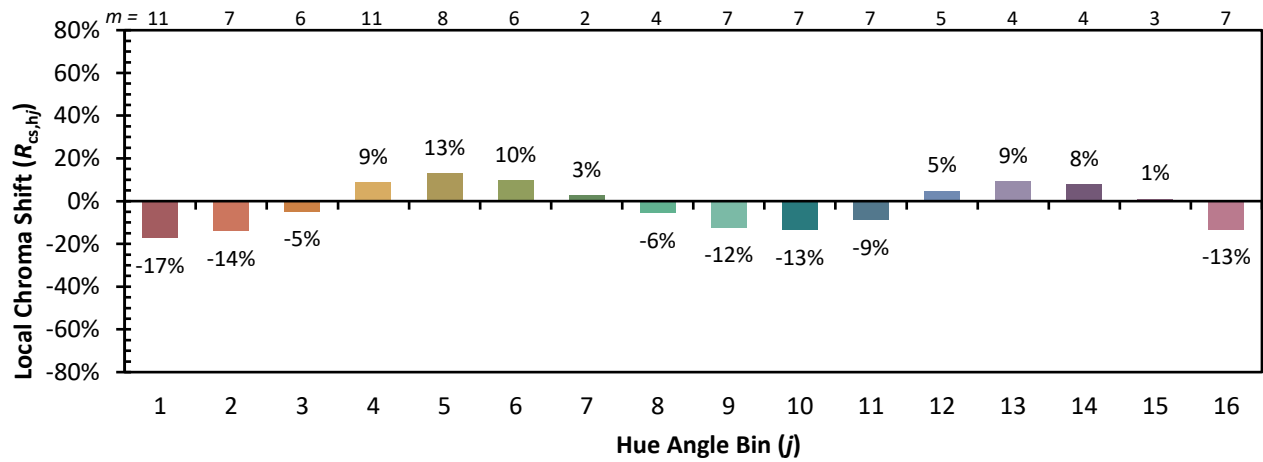


Individual Sample Fidelity Index ($R_{f,i}$)

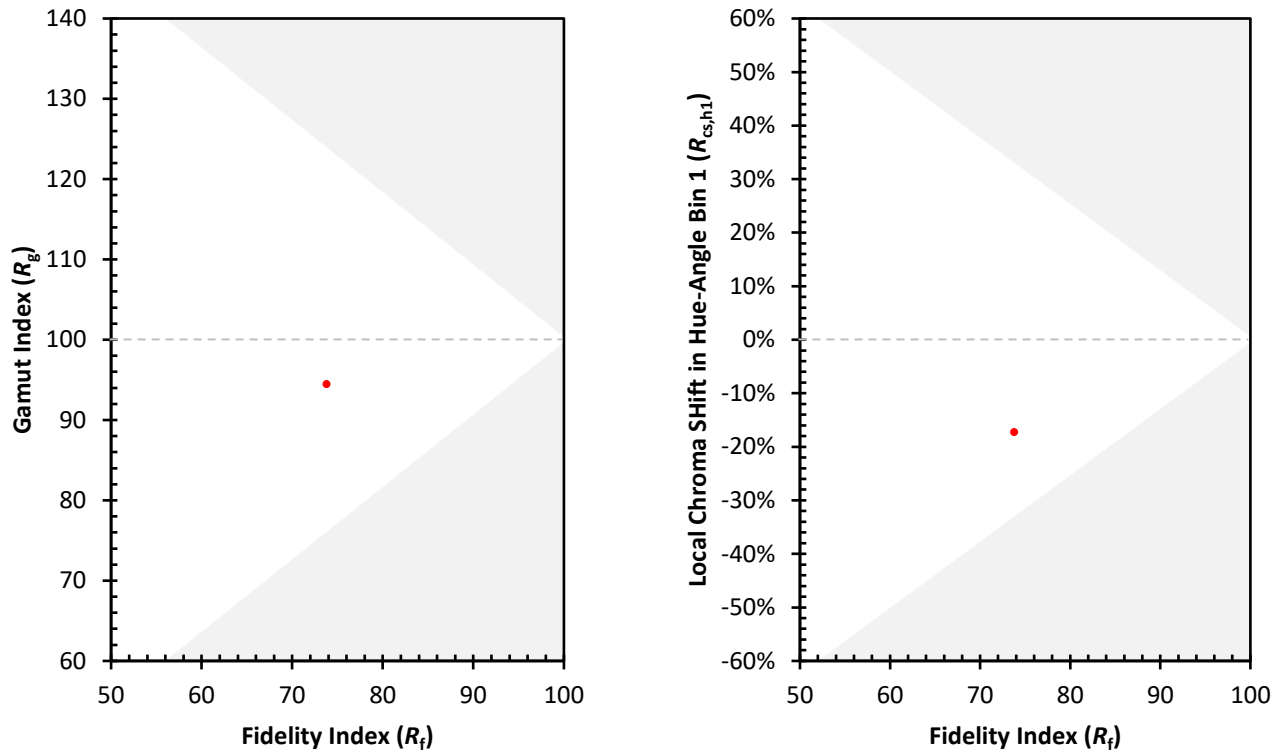
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)