

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: P1067872

Luminaire Tested: **NAV-SA1D-740-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1067872
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA1D-740-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 1xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5492.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 56.5
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



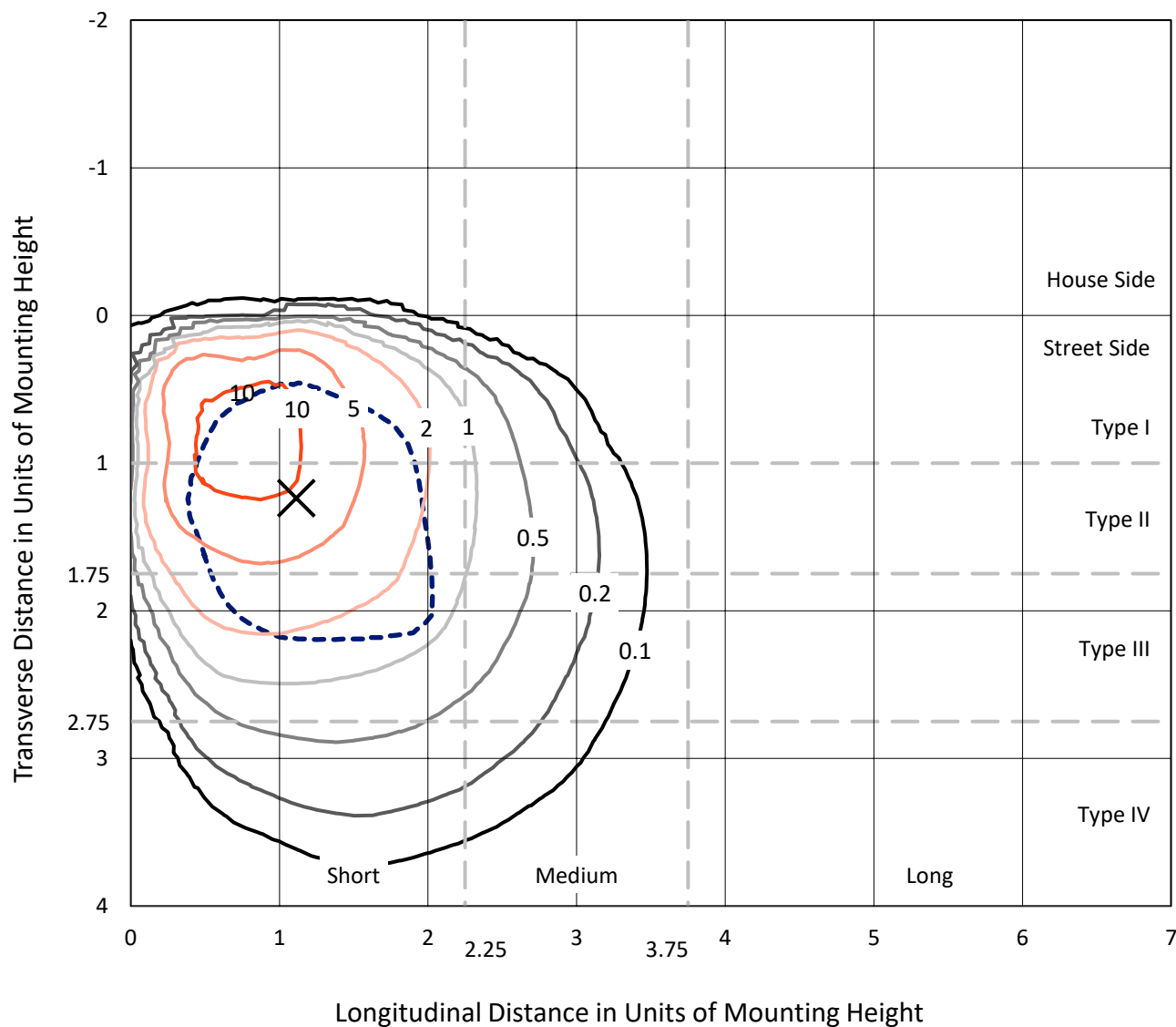
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

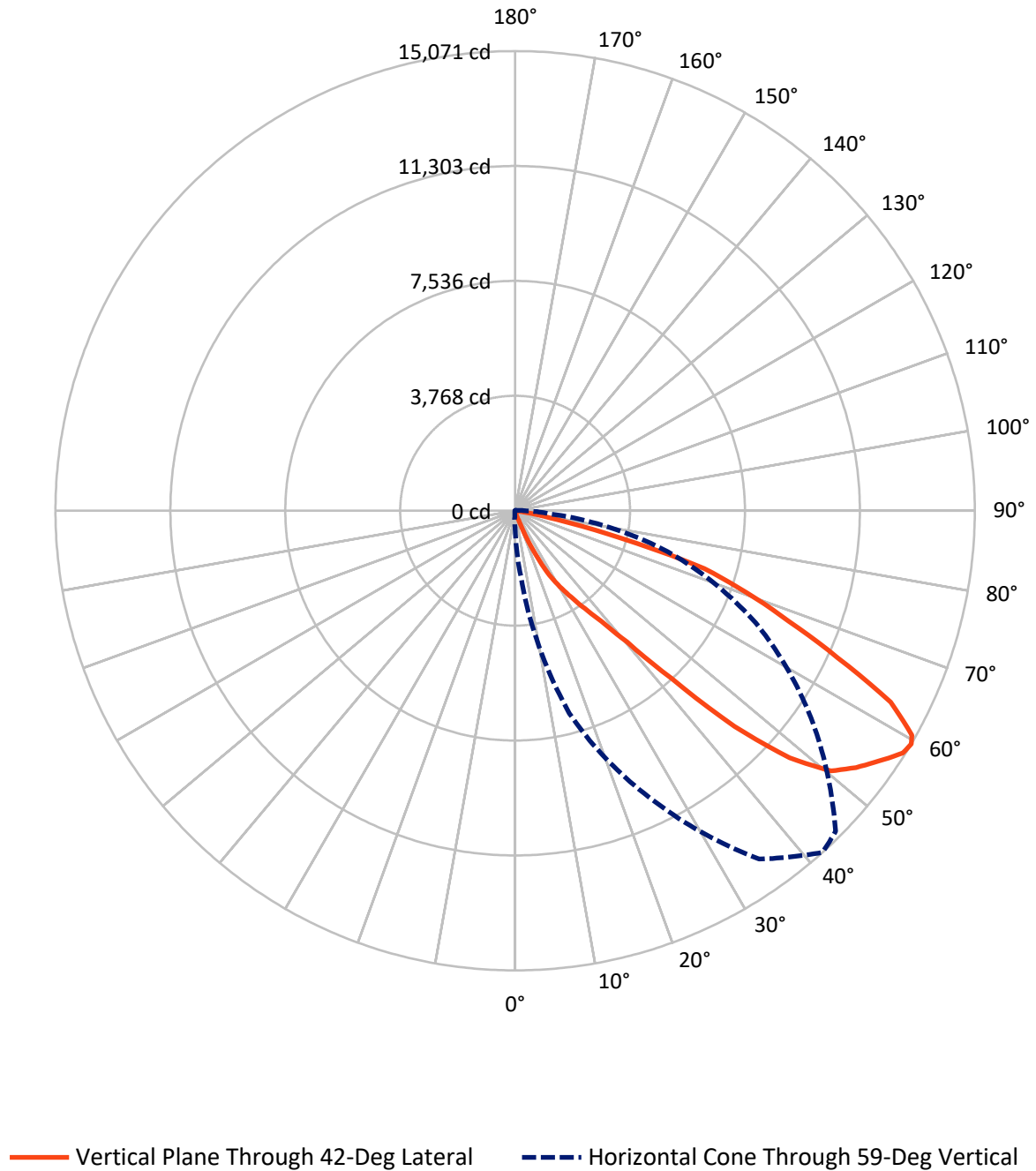


Based on 15 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26.5	0.0	26.5
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	5466.4	0.0	5466.4
	% Fixture	99.5	0.0	99.5
Total	Lumens	5492.9	0.0	5492.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.0
10°-20°	8.0	0.1
20°-30°	102.5	1.9
30°-40°	345.4	6.3
40°-50°	1043.4	19.0
50°-60°	1841.8	33.5
60°-70°	1621.7	29.5
70°-80°	516.2	9.4
80°-90°	12.3	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°	5492.9	100.0
0°-180°	5492.9	100.0



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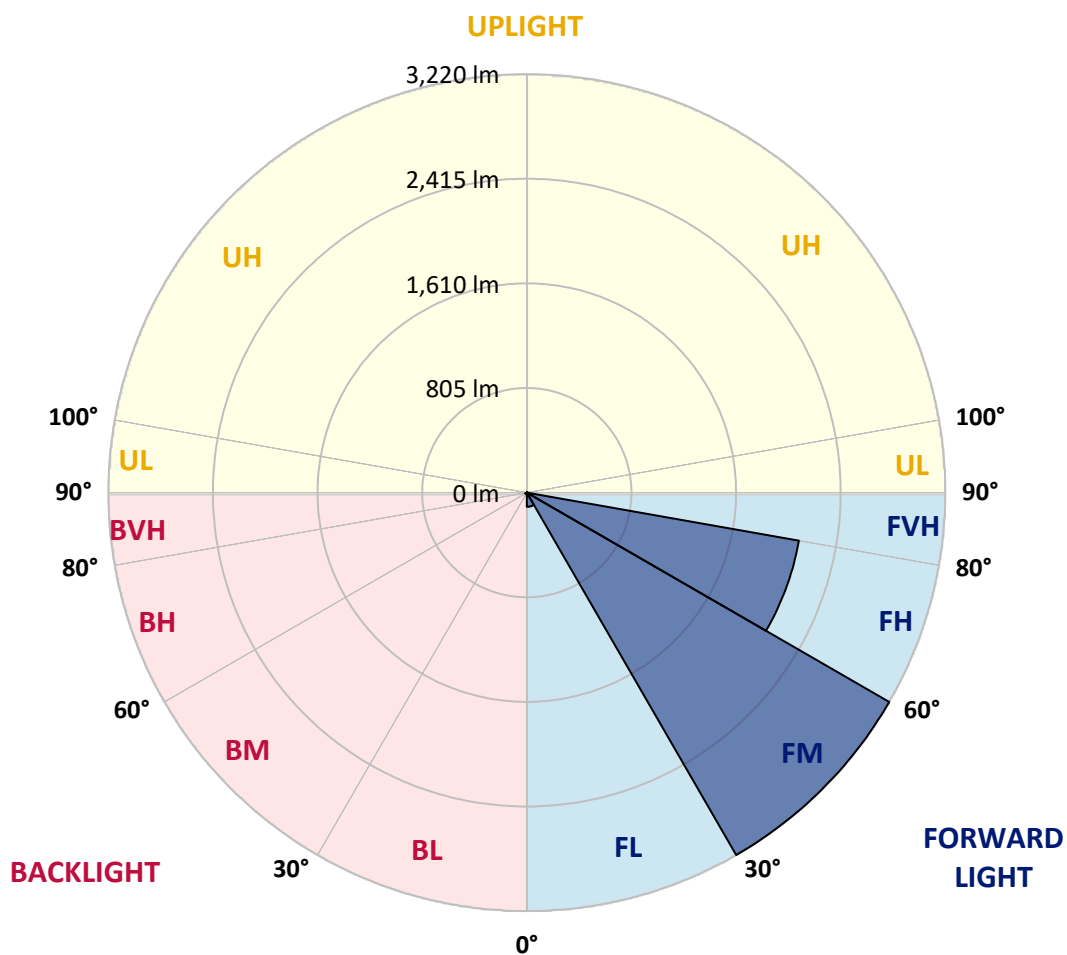
CATALOG NUMBER: NAV-SA1D-740-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.1	2.0			
FM	(30°-60°)	3219.7	58.6			
FH	(60°-80°)	2125.8	38.7			G2/5000
FVH	(80°-90°)	11.7	0.2			G1/100
BL	(0°-30°)	3.0	0.1	B0/110		
BM	(30°-60°)	10.8	0.2	B0/220		
BH	(60°-80°)	12.1	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°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2.5°	24.1	24.1	22.4	20.7	18.9	17.2	17.2	17.2	15.5	15.5	13.8
5°	27.6	27.6	25.8	24.1	24.1	22.4	22.4	20.7	18.9	18.9	17.2
7.5°	29.3	29.3	29.3	29.3	27.6	27.6	27.6	25.8	24.1	22.4	20.7
10°	31.0	32.7	34.4	34.4	34.4	34.4	34.4	32.7	29.3	27.6	24.1
12.5°	34.4	36.2	39.6	43.1	43.1	44.8	43.1	41.3	37.9	32.7	27.6
15°	37.9	41.3	46.5	53.4	60.3	62.0	62.0	56.8	49.9	39.6	32.7
17.5°	43.1	48.2	62.0	84.4	108.5	127.4	127.4	113.7	79.2	51.7	37.9
20°	46.5	56.8	99.9	203.2	310.0	389.2	373.7	330.7	177.4	80.9	41.3
22.5°	51.7	72.3	211.8	533.9	826.7	971.3	936.9	711.3	397.8	144.7	49.9
25°	58.6	105.1	420.2	1000.6	1536.2	1692.9	1670.5	1327.8	725.0	242.8	63.7
27.5°	72.3	155.0	673.4	1517.3	2266.4	2400.8	2392.1	1944.4	1159.0	390.9	82.7
30°	91.3	225.6	998.9	2061.5	2750.4	2886.4	2843.4	2395.6	1563.8	597.6	106.8
32.5°	113.7	315.2	1293.4	2462.8	3196.4	3375.5	3323.9	2788.2	1889.3	773.3	158.4
35°	148.1	403.0	1584.4	2817.5	3711.3	3938.7	3852.6	3193.0	2170.0	971.3	191.2
37.5°	165.3	454.7	1851.4	3203.3	4290.0	4600.0	4534.6	3704.5	2455.9	1224.5	234.2
40°	167.1	516.7	2128.6	3706.2	5108.1	5660.9	5543.8	4582.8	2988.0	1550.0	301.4
42.5°	172.2	609.7	2488.6	4563.8	6714.9	7508.8	7376.2	6198.2	4195.3	2202.7	427.1
45°	196.3	785.3	3222.2	6167.2	8921.0	10085.2	9931.9	8449.1	5881.3	3430.6	728.5
47.5°	280.7	1181.4	4508.7	7898.0	11177.1	12105.4	12067.5	10223.0	7408.9	4689.6	1234.8
50°	451.2	1813.5	5972.6	9353.3	12613.4	13410.8	13316.1	10963.5	8280.4	5548.9	1582.7
52.5°	602.8	2418.0	6892.3	9888.9	13042.2	13992.9	13877.5	11233.9	8509.4	5802.1	1679.1
55°	640.7	2636.7	7166.1	10054.2	13326.4	14485.5	14318.4	11414.8	8538.7	5621.3	1519.0
57.5°	621.7	2430.0	6988.7	10216.1	13722.5	14991.8	14769.6	11767.8	8636.9	5314.7	1264.1
59°	589.0	2175.1	6878.5	10345.3	13941.2	15071.0	14862.6	11845.3	8702.3	5175.2	1109.1
60°	551.1	2002.9	6792.4	10429.7	13927.5	14947.0	14731.7	11809.1	8728.1	5054.7	1035.0
62.5°	425.4	1598.2	6668.4	10369.4	13057.7	13815.5	13693.2	10923.9	8349.2	4668.9	816.3
65°	330.7	1222.8	6213.7	9248.2	11111.7	11621.4	11583.5	9250.0	7026.6	4024.8	589.0
67.5°	261.8	892.1	5254.4	7489.9	8940.0	9665.0	9637.5	7508.8	5333.7	3075.9	423.7
70°	213.6	635.5	3602.8	5647.1	7150.6	8063.4	8023.7	6043.2	3952.5	1951.3	308.3
72.5°	180.8	406.4	2185.5	4257.3	5967.4	6489.3	6373.9	4875.6	2874.4	1062.6	244.6
75°	153.3	249.7	1083.3	2653.9	3554.6	3551.2	3435.8	2581.6	1543.1	520.1	194.6
77.5°	124.0	175.7	425.4	728.5	1121.2	1388.1	1365.7	914.5	461.6	151.6	120.6
80°	80.9	82.7	113.7	199.8	308.3	341.0	387.5	279.0	134.3	72.3	49.9
82.5°	36.2	39.6	51.7	65.4	65.4	60.3	53.4	39.6	29.3	24.1	12.1
85°	8.6	12.1	8.6	10.3	8.6	6.9	6.9	3.4	0.0	0.0	0.0
87.5°	1.7	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°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2.5°	13.8	13.8	13.8	12.1	12.1	12.1	10.3	10.3	10.3	8.6	8.6
5°	17.2	15.5	13.8	13.8	12.1	12.1	10.3	8.6	8.6	8.6	6.9
7.5°	18.9	17.2	15.5	13.8	12.1	10.3	10.3	8.6	6.9	6.9	6.9
10°	22.4	20.7	17.2	13.8	12.1	10.3	8.6	8.6	6.9	5.2	5.2
12.5°	25.8	22.4	18.9	15.5	12.1	10.3	8.6	8.6	6.9	5.2	3.4
15°	29.3	25.8	20.7	15.5	12.1	10.3	8.6	8.6	5.2	3.4	1.7
17.5°	32.7	27.6	20.7	17.2	12.1	10.3	8.6	6.9	3.4	1.7	0.0
20°	34.4	29.3	22.4	17.2	12.1	10.3	8.6	5.2	1.7	0.0	0.0
22.5°	37.9	32.7	24.1	17.2	12.1	8.6	5.2	1.7	0.0	0.0	0.0
25°	44.8	34.4	24.1	17.2	12.1	8.6	3.4	0.0	0.0	0.0	0.0
27.5°	49.9	37.9	24.1	17.2	12.1	6.9	1.7	0.0	0.0	0.0	0.0
30°	58.6	41.3	25.8	17.2	12.1	5.2	1.7	0.0	0.0	0.0	0.0
32.5°	72.3	44.8	25.8	17.2	10.3	5.2	0.0	0.0	0.0	0.0	0.0
35°	87.8	51.7	25.8	17.2	10.3	5.2	0.0	0.0	0.0	0.0	0.0
37.5°	89.6	55.1	25.8	17.2	10.3	3.4	0.0	0.0	0.0	0.0	0.0
40°	93.0	51.7	27.6	17.2	10.3	3.4	0.0	0.0	0.0	0.0	0.0
42.5°	106.8	48.2	29.3	17.2	10.3	3.4	0.0	0.0	0.0	0.0	0.0
45°	158.4	49.9	29.3	18.9	10.3	5.2	0.0	0.0	0.0	0.0	0.0
47.5°	275.6	51.7	27.6	18.9	10.3	5.2	0.0	0.0	0.0	0.0	0.0
50°	353.1	60.3	27.6	20.7	12.1	3.4	0.0	0.0	0.0	0.0	0.0
52.5°	375.4	70.6	27.6	22.4	15.5	1.7	0.0	0.0	0.0	0.0	0.0
55°	365.1	82.7	29.3	24.1	18.9	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	337.6	89.6	31.0	25.8	20.7	0.0	0.0	0.0	0.0	0.0	0.0
59°	308.3	94.7	36.2	27.6	20.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	284.2	99.9	37.9	29.3	20.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	229.1	106.8	41.3	34.4	17.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	199.8	111.9	43.1	37.9	15.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	182.6	115.4	46.5	39.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	168.8	113.7	49.9	37.9	12.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	153.3	108.5	60.3	34.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	137.8	98.2	65.4	31.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	99.9	82.7	60.3	27.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.1	44.8	43.1	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	10.3	8.6	5.2	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°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2.5°	8.6	8.6	8.6	8.6	10.3	10.3	13.8	17.2	20.7	22.4	22.4
5°	6.9	6.9	6.9	6.9	6.9	8.6	10.3	13.8	18.9	20.7	20.7
7.5°	5.2	5.2	5.2	5.2	5.2	5.2	8.6	12.1	17.2	18.9	20.7
10°	5.2	3.4	3.4	1.7	1.7	3.4	5.2	10.3	15.5	17.2	18.9
12.5°	3.4	1.7	1.7	0.0	0.0	1.7	3.4	8.6	13.8	15.5	17.2
15°	1.7	0.0	0.0	0.0	0.0	0.0	1.7	6.9	12.1	13.8	17.2
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.3	13.8	15.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	8.6	12.1	13.8
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.9	10.3	12.1
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	6.9	8.6
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.2	6.9
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.2	6.9
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.2
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.2
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	3.4
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
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°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2.5°	24.1	24.1	22.4	20.7	20.7	20.7	22.4	24.1	24.1	24.1
5°	22.4	22.4	20.7	20.7	20.7	20.7	22.4	25.8	27.6	27.6
7.5°	22.4	22.4	20.7	20.7	20.7	20.7	22.4	25.8	27.6	29.3
10°	20.7	20.7	20.7	20.7	18.9	20.7	22.4	25.8	31.0	31.0
12.5°	20.7	20.7	20.7	20.7	18.9	20.7	24.1	27.6	32.7	34.4
15°	20.7	20.7	20.7	18.9	18.9	20.7	24.1	29.3	34.4	37.9
17.5°	18.9	20.7	20.7	18.9	18.9	20.7	24.1	29.3	37.9	43.1
20°	17.2	18.9	20.7	18.9	18.9	18.9	24.1	29.3	39.6	46.5
22.5°	15.5	17.2	18.9	18.9	17.2	18.9	24.1	31.0	43.1	51.7
25°	13.8	15.5	15.5	17.2	17.2	18.9	24.1	31.0	44.8	58.6
27.5°	10.3	12.1	13.8	15.5	15.5	18.9	24.1	32.7	48.2	72.3
30°	8.6	10.3	12.1	13.8	15.5	18.9	24.1	32.7	51.7	91.3
32.5°	8.6	10.3	12.1	13.8	15.5	17.2	24.1	34.4	56.8	113.7
35°	6.9	8.6	10.3	13.8	13.8	17.2	24.1	34.4	62.0	148.1
37.5°	6.9	8.6	10.3	13.8	13.8	17.2	24.1	34.4	75.8	165.3
40°	5.2	6.9	8.6	13.8	13.8	17.2	25.8	36.2	77.5	167.1
42.5°	5.2	6.9	8.6	12.1	13.8	17.2	25.8	36.2	72.3	172.2
45°	5.2	6.9	8.6	13.8	15.5	18.9	25.8	37.9	70.6	196.3
47.5°	5.2	6.9	8.6	13.8	17.2	18.9	25.8	37.9	72.3	280.7
50°	5.2	6.9	8.6	13.8	18.9	18.9	25.8	37.9	79.2	451.2
52.5°	3.4	5.2	6.9	12.1	15.5	20.7	27.6	36.2	84.4	602.8
55°	3.4	3.4	5.2	10.3	13.8	22.4	29.3	36.2	98.2	640.7
57.5°	3.4	3.4	5.2	8.6	12.1	24.1	31.0	36.2	113.7	621.7
59°	3.4	3.4	3.4	8.6	10.3	24.1	31.0	37.9	115.4	589.0
60°	3.4	3.4	3.4	6.9	10.3	24.1	32.7	39.6	117.1	551.1
62.5°	1.7	1.7	1.7	6.9	8.6	24.1	36.2	48.2	120.6	425.4
65°	3.4	3.4	1.7	5.2	8.6	20.7	41.3	51.7	122.3	330.7
67.5°	3.4	3.4	3.4	6.9	8.6	20.7	43.1	53.4	122.3	261.8
70°	3.4	3.4	3.4	6.9	10.3	20.7	43.1	55.1	120.6	213.6
72.5°	3.4	3.4	3.4	6.9	10.3	18.9	39.6	56.8	115.4	180.8
75°	3.4	3.4	3.4	5.2	8.6	17.2	37.9	62.0	105.1	153.3
77.5°	3.4	3.4	3.4	3.4	6.9	13.8	34.4	68.9	93.0	124.0
80°	5.2	3.4	3.4	3.4	5.2	12.1	32.7	67.2	77.5	80.9
82.5°	5.2	3.4	3.4	1.7	3.4	8.6	25.8	51.7	39.6	36.2
85°	3.4	3.4	3.4	1.7	1.7	5.2	12.1	15.5	12.1	8.6
87.5°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

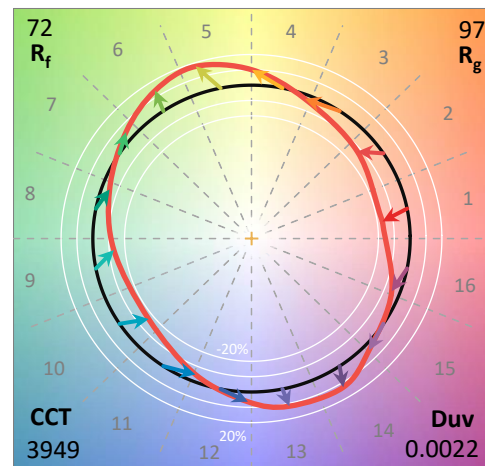
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

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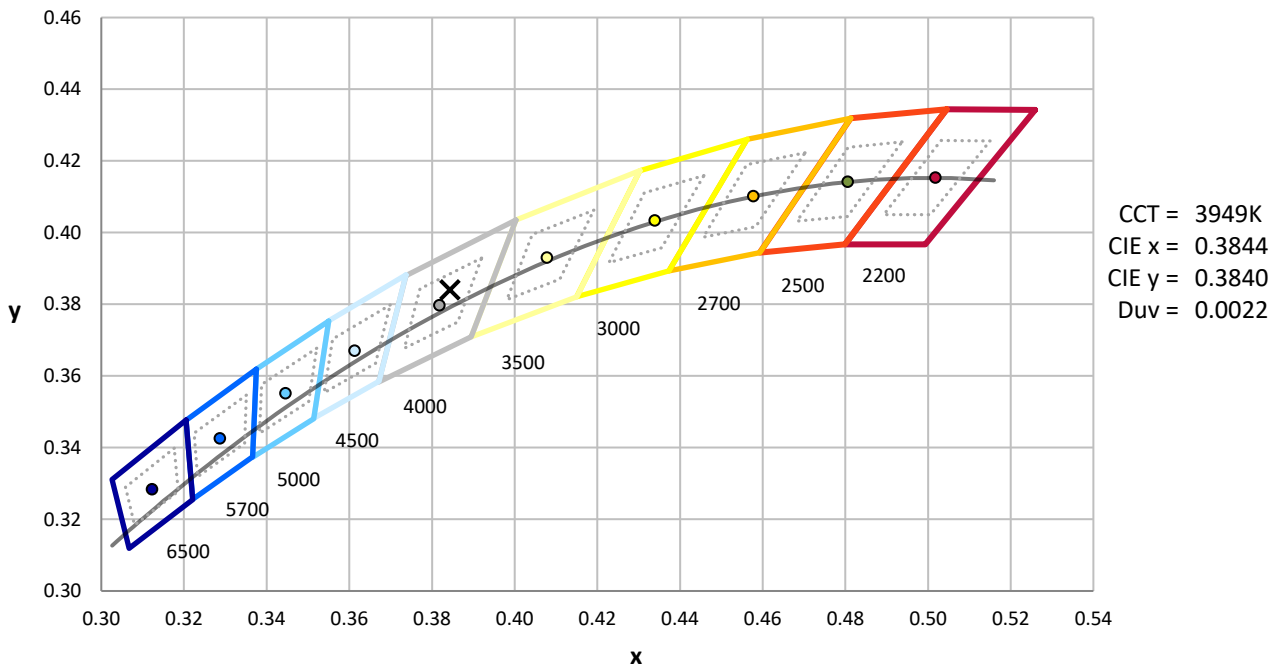
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram

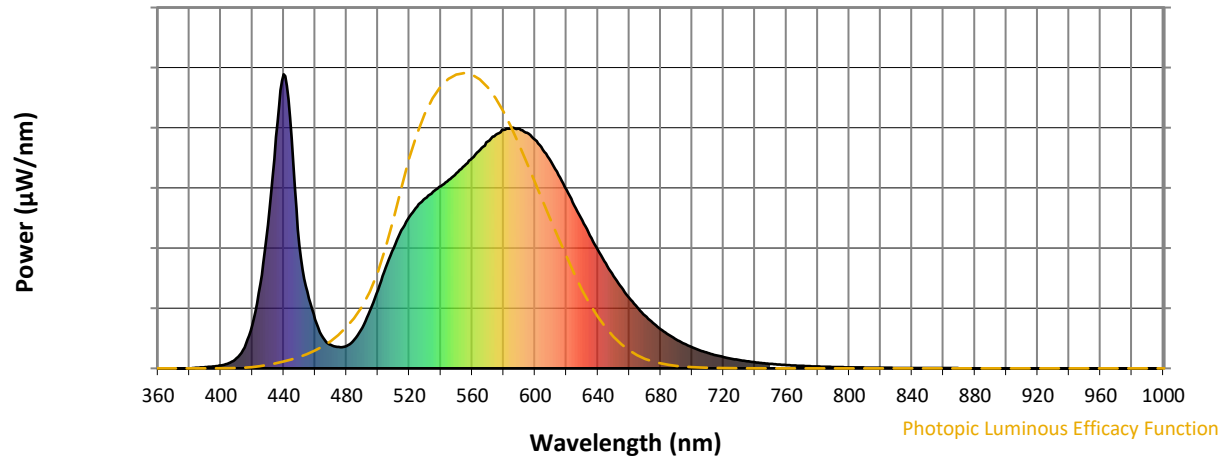


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

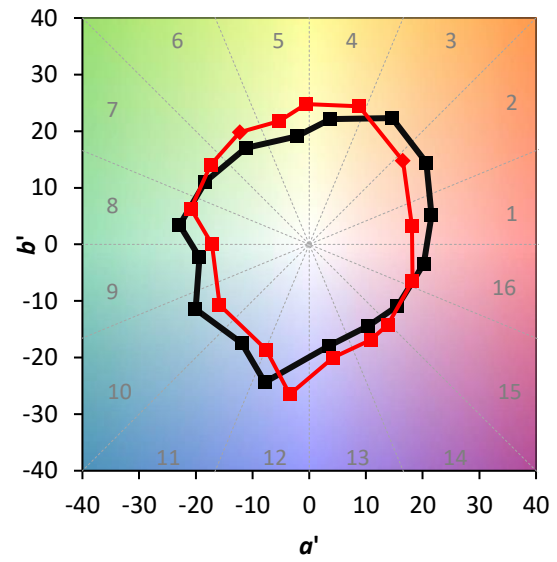
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 CIE $R_a = 70.7$
 $R_g = -36.7$



Color Vector Graphics

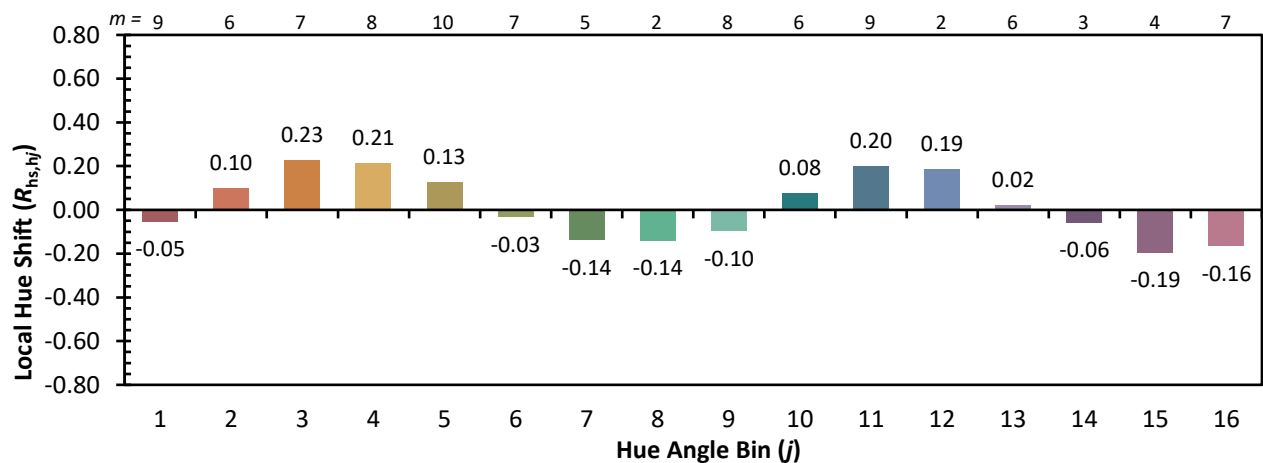


Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)