

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: P1068000

Luminaire Tested: **NAV-SA3D-750-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1068000
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA3D-750-U-LBC
Description: Navion AREA AND ROADWAY LUMINAIRE 1200mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15777.3 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 160.9
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

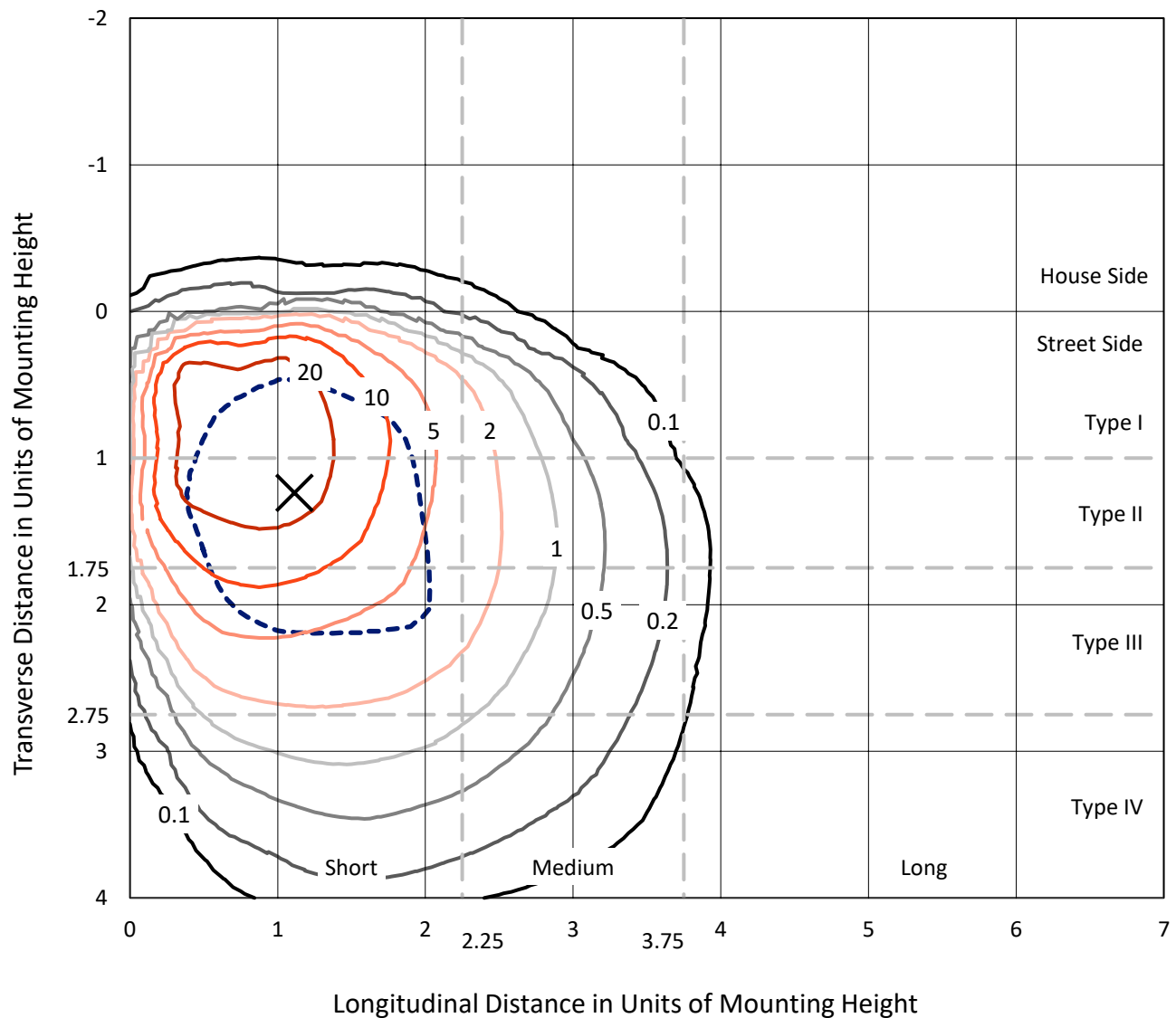


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

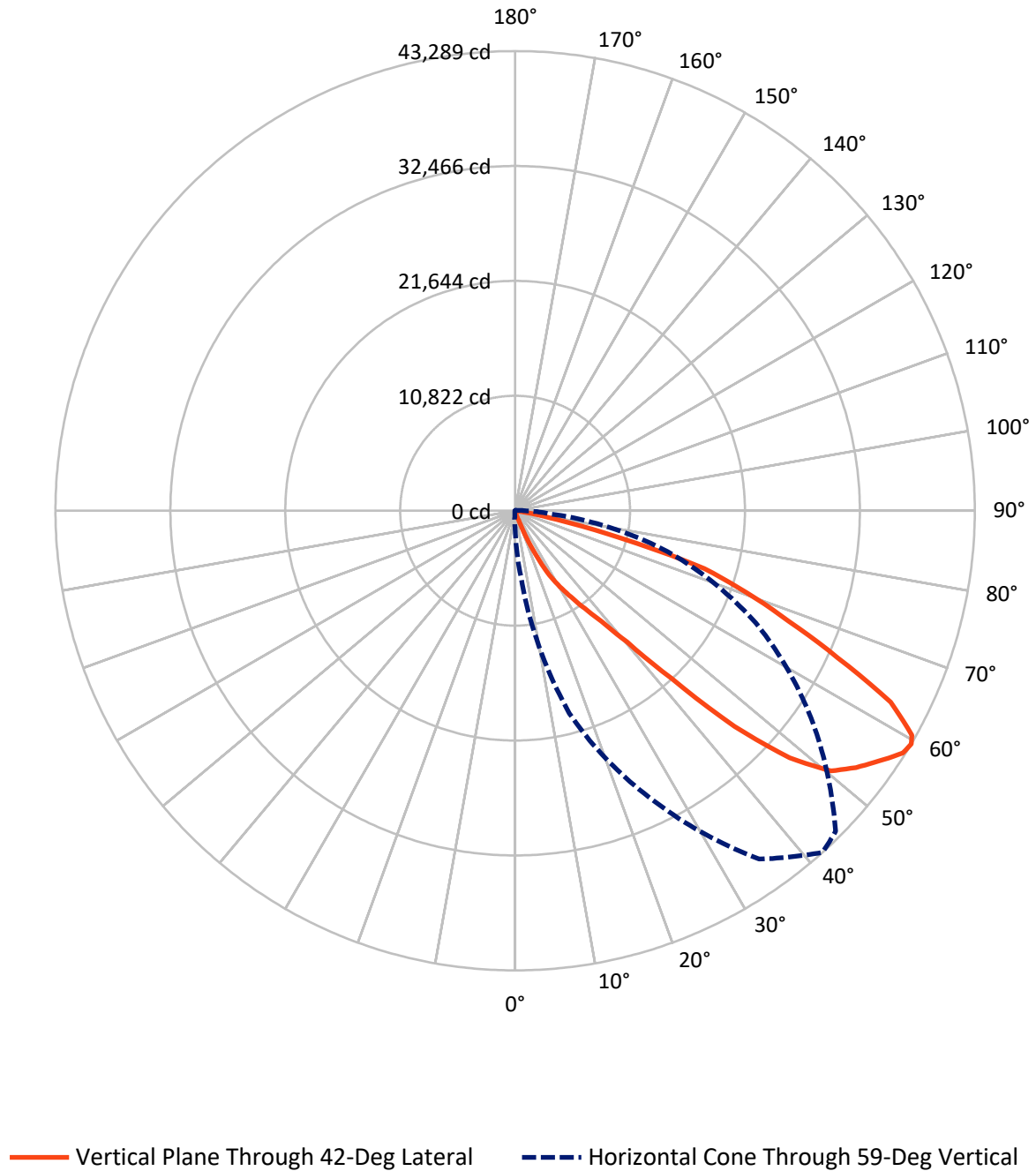


Based on 15 foot mounting height. Maximum calculated value = 46.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	76.0	0.0	76.0
	% Fixture	0.5	0.0	0.5
Street Side	Lumens	15701.2	0.0	15701.2
	% Fixture	99.5	0.0	99.5
Total	Lumens	15777.3	0.0	15777.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.0
10°-20°	23.0	0.1
20°-30°	294.3	1.9
30°-40°	992.2	6.3
40°-50°	2996.8	19.0
50°-60°	5290.1	33.5
60°-70°	4658.1	29.5
70°-80°	1482.7	9.4
80°-90°	35.5	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°	15777.3	100.0
0°-180°	15777.3	100.0



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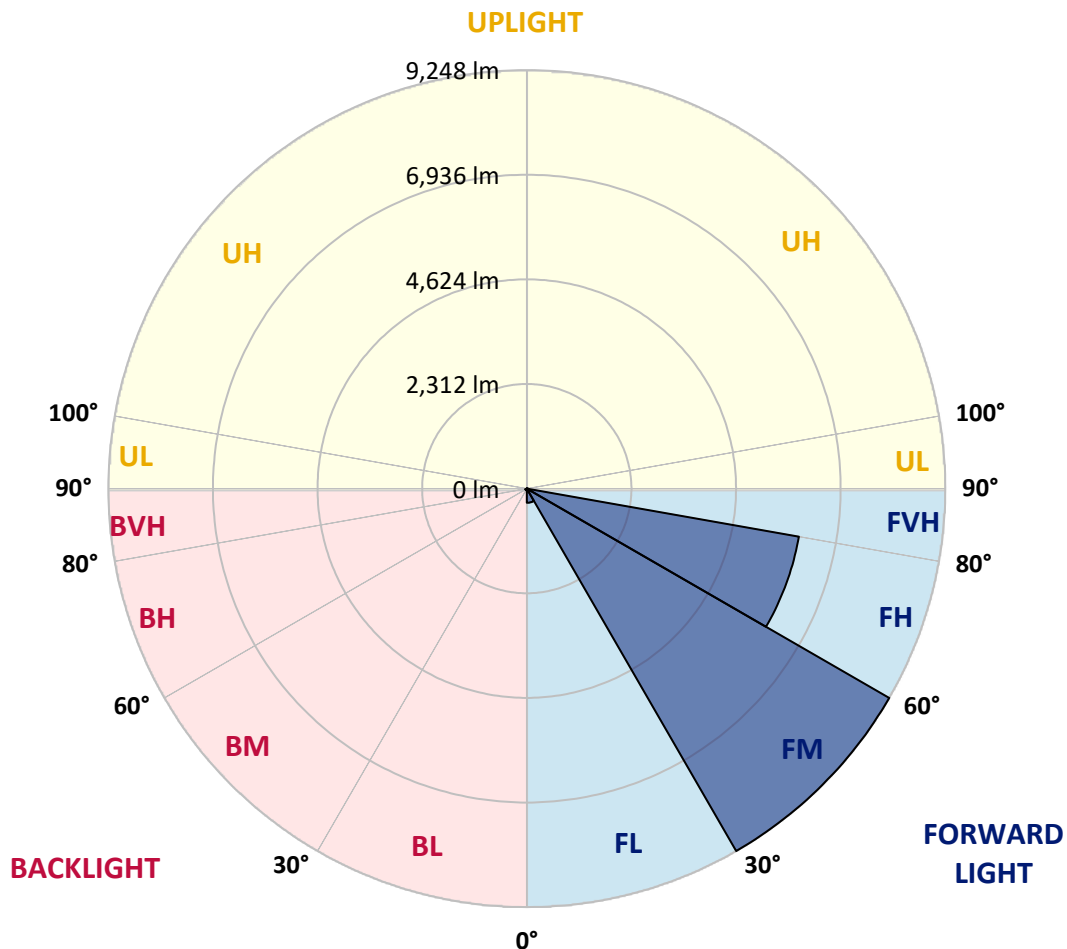
CATALOG NUMBER: NAV-SA3D-750-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.4	2.0			
FM	(30°-60°)	9248.1	58.6			
FH	(60°-80°)	6105.9	38.7			G3/7500
FVH	(80°-90°)	33.8	0.2			G1/100
BL	(0°-30°)	8.5	0.1	B0/110		
BM	(30°-60°)	31.1	0.2	B0/220		
BH	(60°-80°)	34.8	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°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	69.3	69.3	64.3	59.4	54.4	49.5	49.5	49.5	44.5	44.5	39.6
5°	79.1	79.1	74.2	69.3	69.3	64.3	64.3	59.4	54.4	54.4	49.5
7.5°	84.1	84.1	84.1	84.1	79.1	79.1	79.1	74.2	69.3	64.3	59.4
10°	89.0	94.0	98.9	98.9	98.9	98.9	98.9	94.0	84.1	79.1	69.3
12.5°	98.9	103.9	113.8	123.7	123.7	128.6	123.7	118.7	108.8	94.0	79.1
15°	108.8	118.7	133.6	153.3	173.1	178.1	178.1	163.2	143.5	113.8	94.0
17.5°	123.7	138.5	178.1	242.4	311.6	366.1	366.1	326.5	227.5	148.4	108.8
20°	133.6	163.2	286.9	583.7	890.4	1118.0	1073.4	949.8	509.5	232.5	118.7
22.5°	148.4	207.8	608.4	1533.5	2374.4	2789.9	2691.0	2043.0	1142.7	415.5	143.5
25°	168.2	301.7	1207.0	2874.0	4412.5	4862.6	4798.3	3813.9	2082.6	697.5	183.0
27.5°	207.8	445.2	1934.2	4358.0	6509.9	6895.7	6871.0	5584.8	3329.1	1122.9	237.4
30°	262.2	648.0	2869.1	5921.2	7899.9	8290.7	8167.0	6880.9	4491.6	1716.5	306.7
32.5°	326.5	905.2	3715.0	7073.8	9181.1	9695.5	9547.1	8008.7	5426.5	2221.1	455.1
35°	425.4	1157.5	4551.0	8092.8	10660.1	11313.1	11065.8	9171.2	6232.8	2789.9	549.1
37.5°	474.9	1305.9	5317.7	9200.9	12322.2	13212.6	13024.7	10640.4	7054.0	3517.1	672.8
40°	479.8	1484.0	6114.1	10645.3	14671.9	16259.8	15923.4	13163.2	8582.5	4452.0	865.7
42.5°	494.7	1751.1	7148.0	13108.8	19287.2	21567.6	21186.7	17803.2	12050.2	6326.8	1226.8
45°	563.9	2255.7	9255.3	17714.1	25623.9	28967.9	28527.6	24268.5	16893.0	9853.8	2092.5
47.5°	806.3	3393.4	12950.5	22685.6	32104.1	34770.4	34661.5	29363.6	21280.7	13469.9	3546.8
50°	1296.0	5208.9	17155.2	26865.5	36229.6	38519.9	38247.9	31490.7	23783.7	15938.3	4546.0
52.5°	1731.3	6945.2	19796.7	28403.9	37461.4	40191.9	39860.5	32267.3	24441.6	16665.4	4823.0
55°	1840.2	7573.4	20583.2	28878.8	38277.6	41606.7	41126.9	32786.7	24525.7	16146.0	4363.0
57.5°	1785.8	6979.8	20073.7	29343.8	39415.3	43061.0	42422.9	33800.8	24807.7	15265.5	3630.9
59°	1691.8	6247.7	19757.1	29714.8	40043.5	43288.6	42690.0	34023.4	24995.7	14864.8	3185.7
60°	1582.9	5753.0	19509.8	29957.2	40004.0	42932.4	42314.1	33919.5	25069.9	14518.6	2973.0
62.5°	1221.8	4590.5	19153.6	29784.1	37505.9	39682.4	39331.2	31376.9	23981.6	13410.5	2344.7
65°	949.8	3512.2	17847.7	26563.8	31916.1	33380.3	33271.5	26568.7	20182.5	11560.4	1691.8
67.5°	751.9	2562.4	15092.4	21513.2	25678.3	27760.9	27681.7	21567.6	15319.9	8834.8	1216.9
70°	613.4	1825.3	10348.5	16220.2	20538.7	23160.4	23046.7	17358.0	11352.7	5604.6	885.5
72.5°	519.4	1167.4	6277.4	12228.2	17140.3	18639.2	18307.7	14004.1	8256.0	3052.1	702.4
75°	440.3	717.3	3111.5	7622.9	10210.0	10200.1	9868.7	7415.1	4432.2	1493.9	559.0
77.5°	356.2	504.6	1221.8	2092.5	3220.3	3987.0	3922.7	2626.7	1325.7	435.3	346.3
80°	232.5	237.4	326.5	573.8	885.5	979.4	1113.0	801.4	385.8	207.8	143.5
82.5°	103.9	113.8	148.4	188.0	188.0	173.1	153.3	113.8	84.1	69.3	34.6
85°	24.7	34.6	24.7	29.7	24.7	19.8	19.8	9.9	0.0	0.0	0.0
87.5°	4.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	39.6	39.6	39.6	34.6	34.6	34.6	29.7	29.7	29.7	24.7	24.7
5°	49.5	44.5	39.6	39.6	34.6	34.6	29.7	24.7	24.7	24.7	19.8
7.5°	54.4	49.5	44.5	39.6	34.6	29.7	29.7	24.7	19.8	19.8	19.8
10°	64.3	59.4	49.5	39.6	34.6	29.7	24.7	24.7	19.8	14.8	14.8
12.5°	74.2	64.3	54.4	44.5	34.6	29.7	24.7	24.7	19.8	14.8	9.9
15°	84.1	74.2	59.4	44.5	34.6	29.7	24.7	24.7	14.8	9.9	4.9
17.5°	94.0	79.1	59.4	49.5	34.6	29.7	24.7	19.8	9.9	4.9	0.0
20°	98.9	84.1	64.3	49.5	34.6	29.7	24.7	14.8	4.9	0.0	0.0
22.5°	108.8	94.0	69.3	49.5	34.6	24.7	14.8	4.9	0.0	0.0	0.0
25°	128.6	98.9	69.3	49.5	34.6	24.7	9.9	0.0	0.0	0.0	0.0
27.5°	143.5	108.8	69.3	49.5	34.6	19.8	4.9	0.0	0.0	0.0	0.0
30°	168.2	118.7	74.2	49.5	34.6	14.8	4.9	0.0	0.0	0.0	0.0
32.5°	207.8	128.6	74.2	49.5	29.7	14.8	0.0	0.0	0.0	0.0	0.0
35°	252.3	148.4	74.2	49.5	29.7	14.8	0.0	0.0	0.0	0.0	0.0
37.5°	257.2	158.3	74.2	49.5	29.7	9.9	0.0	0.0	0.0	0.0	0.0
40°	267.1	148.4	79.1	49.5	29.7	9.9	0.0	0.0	0.0	0.0	0.0
42.5°	306.7	138.5	84.1	49.5	29.7	9.9	0.0	0.0	0.0	0.0	0.0
45°	455.1	143.5	84.1	54.4	29.7	14.8	0.0	0.0	0.0	0.0	0.0
47.5°	791.5	148.4	79.1	54.4	29.7	14.8	0.0	0.0	0.0	0.0	0.0
50°	1014.1	173.1	79.1	59.4	34.6	9.9	0.0	0.0	0.0	0.0	0.0
52.5°	1078.4	202.8	79.1	64.3	44.5	4.9	0.0	0.0	0.0	0.0	0.0
55°	1048.7	237.4	84.1	69.3	54.4	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	969.6	257.2	89.0	74.2	59.4	0.0	0.0	0.0	0.0	0.0	0.0
59°	885.5	272.1	103.9	79.1	59.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	816.2	286.9	108.8	84.1	59.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	657.9	306.7	118.7	98.9	49.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	573.8	321.5	123.7	108.8	44.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	524.4	331.4	133.6	113.8	39.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	484.8	326.5	143.5	108.8	34.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	440.3	311.6	173.1	98.9	29.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	395.7	282.0	188.0	89.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	286.9	237.4	173.1	79.1	9.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	123.7	128.6	123.7	59.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	29.7	24.7	14.8	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°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	24.7	24.7	24.7	24.7	29.7	29.7	39.6	49.5	59.4	64.3	64.3
5°	19.8	19.8	19.8	19.8	19.8	24.7	29.7	39.6	54.4	59.4	59.4
7.5°	14.8	14.8	14.8	14.8	14.8	14.8	24.7	34.6	49.5	54.4	59.4
10°	14.8	9.9	9.9	4.9	4.9	9.9	14.8	29.7	44.5	49.5	54.4
12.5°	9.9	4.9	4.9	0.0	0.0	4.9	9.9	24.7	39.6	44.5	49.5
15°	4.9	0.0	0.0	0.0	0.0	0.0	4.9	19.8	34.6	39.6	49.5
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	29.7	39.6	44.5
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	24.7	34.6	39.6
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	19.8	29.7	34.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	19.8	24.7
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	14.8	19.8
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	14.8	19.8
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9	14.8
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9	14.8
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9	9.9
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
59°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.9
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°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	69.3	69.3	64.3	59.4	59.4	59.4	64.3	69.3	69.3	69.3
5°	64.3	64.3	59.4	59.4	59.4	59.4	64.3	74.2	79.1	79.1
7.5°	64.3	64.3	59.4	59.4	59.4	59.4	64.3	74.2	79.1	84.1
10°	59.4	59.4	59.4	59.4	54.4	59.4	64.3	74.2	89.0	89.0
12.5°	59.4	59.4	59.4	59.4	54.4	59.4	69.3	79.1	94.0	98.9
15°	59.4	59.4	59.4	54.4	54.4	59.4	69.3	84.1	98.9	108.8
17.5°	54.4	59.4	59.4	54.4	54.4	59.4	69.3	84.1	108.8	123.7
20°	49.5	54.4	59.4	54.4	54.4	54.4	69.3	84.1	113.8	133.6
22.5°	44.5	49.5	54.4	54.4	49.5	54.4	69.3	89.0	123.7	148.4
25°	39.6	44.5	44.5	49.5	49.5	54.4	69.3	89.0	128.6	168.2
27.5°	29.7	34.6	39.6	44.5	44.5	54.4	69.3	94.0	138.5	207.8
30°	24.7	29.7	34.6	39.6	44.5	54.4	69.3	94.0	148.4	262.2
32.5°	24.7	29.7	34.6	39.6	44.5	49.5	69.3	98.9	163.2	326.5
35°	19.8	24.7	29.7	39.6	39.6	49.5	69.3	98.9	178.1	425.4
37.5°	19.8	24.7	29.7	39.6	39.6	49.5	69.3	98.9	217.7	474.9
40°	14.8	19.8	24.7	39.6	39.6	49.5	74.2	103.9	222.6	479.8
42.5°	14.8	19.8	24.7	34.6	39.6	49.5	74.2	103.9	207.8	494.7
45°	14.8	19.8	24.7	39.6	44.5	54.4	74.2	108.8	202.8	563.9
47.5°	14.8	19.8	24.7	39.6	49.5	54.4	74.2	108.8	207.8	806.3
50°	14.8	19.8	24.7	39.6	54.4	54.4	74.2	108.8	227.5	1296.0
52.5°	9.9	14.8	19.8	34.6	44.5	59.4	79.1	103.9	242.4	1731.3
55°	9.9	9.9	14.8	29.7	39.6	64.3	84.1	103.9	282.0	1840.2
57.5°	9.9	9.9	14.8	24.7	34.6	69.3	89.0	103.9	326.5	1785.8
59°	9.9	9.9	9.9	24.7	29.7	69.3	89.0	108.8	331.4	1691.8
60°	9.9	9.9	9.9	19.8	29.7	69.3	94.0	113.8	336.4	1582.9
62.5°	4.9	4.9	4.9	19.8	24.7	69.3	103.9	138.5	346.3	1221.8
65°	9.9	9.9	4.9	14.8	24.7	59.4	118.7	148.4	351.2	949.8
67.5°	9.9	9.9	9.9	19.8	24.7	59.4	123.7	153.3	351.2	751.9
70°	9.9	9.9	9.9	19.8	29.7	59.4	123.7	158.3	346.3	613.4
72.5°	9.9	9.9	9.9	19.8	29.7	54.4	113.8	163.2	331.4	519.4
75°	9.9	9.9	9.9	14.8	24.7	49.5	108.8	178.1	301.7	440.3
77.5°	9.9	9.9	9.9	9.9	19.8	39.6	98.9	197.9	267.1	356.2
80°	14.8	9.9	9.9	9.9	14.8	34.6	94.0	192.9	222.6	232.5
82.5°	14.8	9.9	9.9	4.9	9.9	24.7	74.2	148.4	113.8	103.9
85°	9.9	9.9	9.9	4.9	4.9	14.8	34.6	44.5	34.6	24.7
87.5°	9.9	9.9	9.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

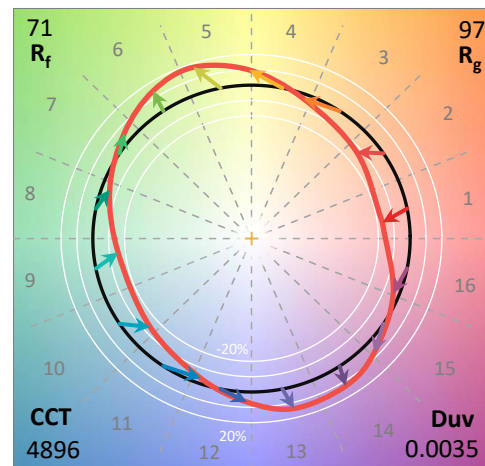
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

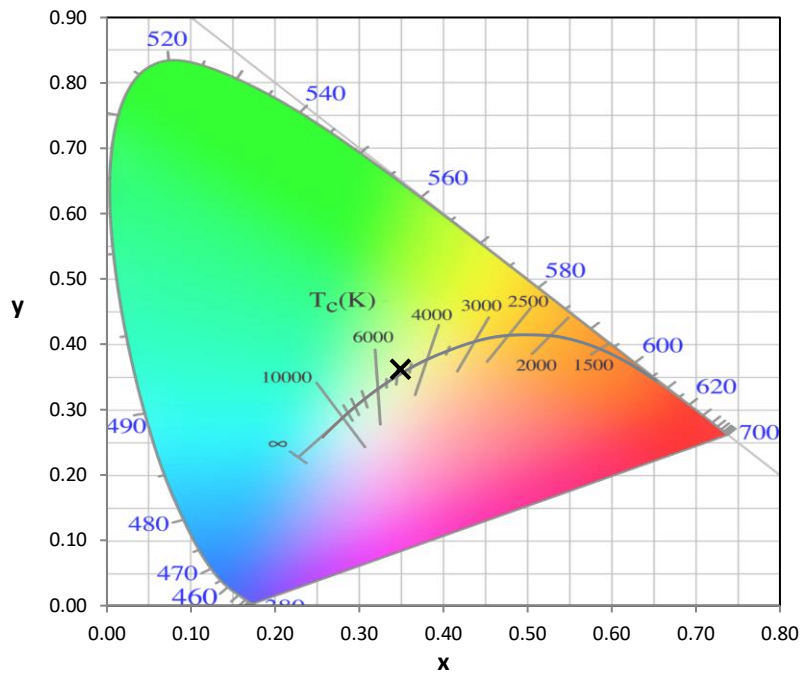
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

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



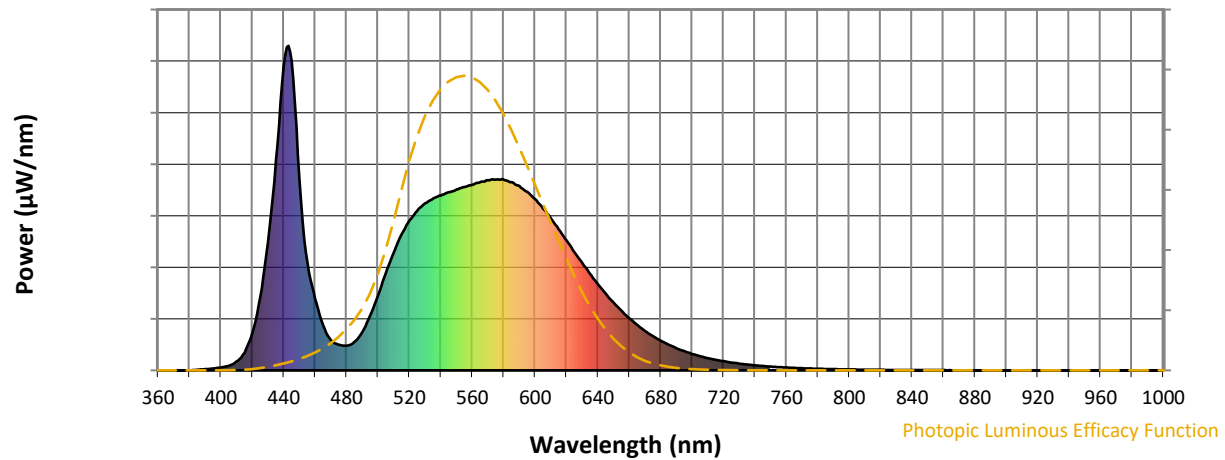
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



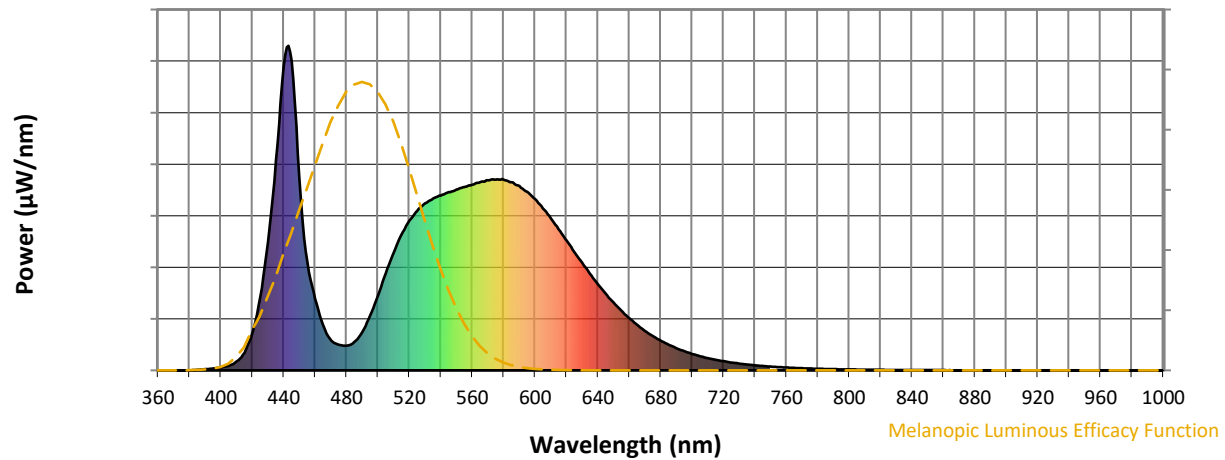
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.37

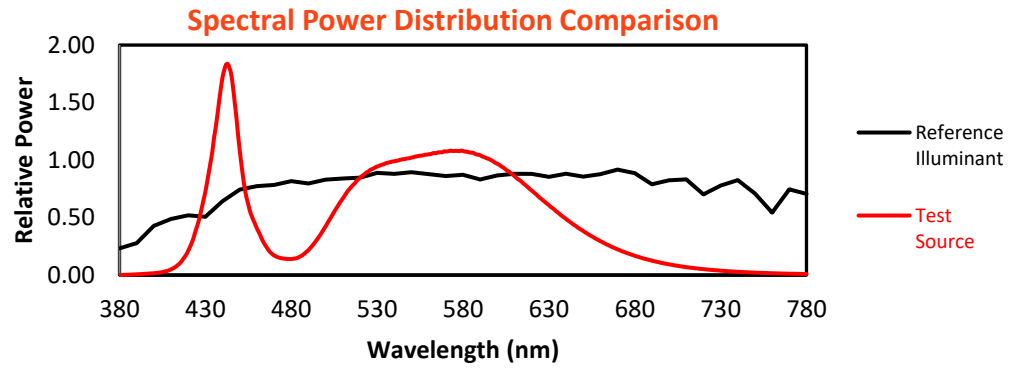
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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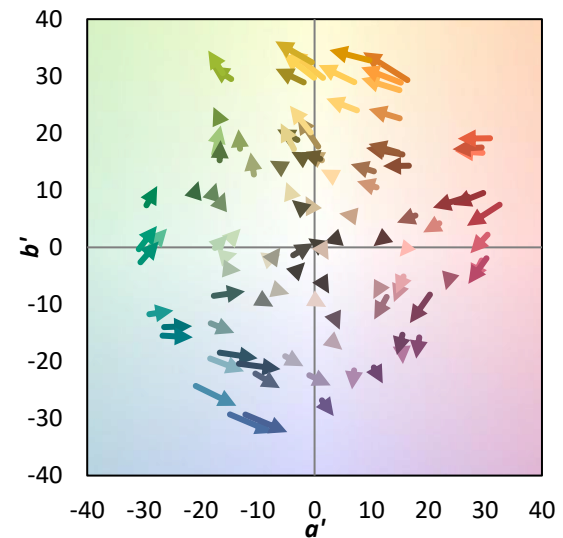
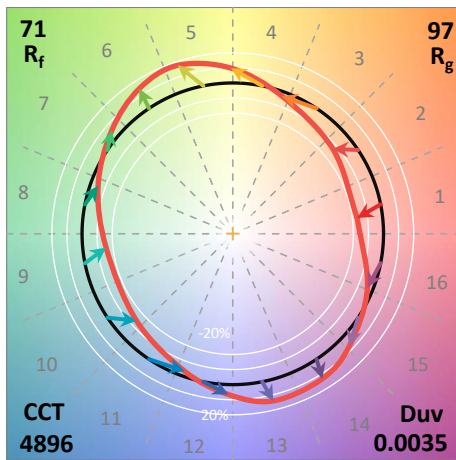
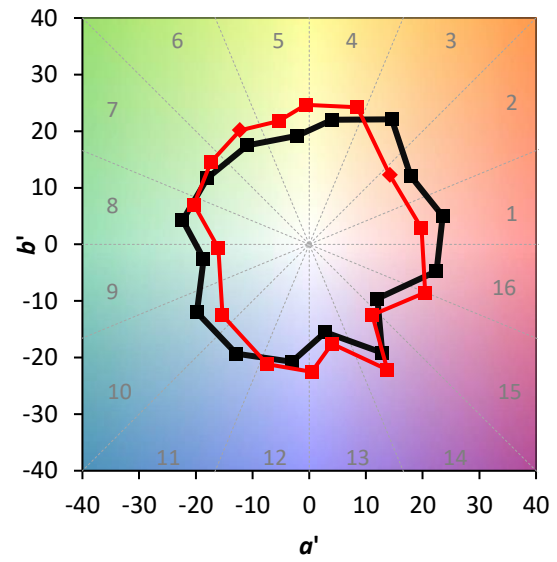
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$



Color Vector Graphics

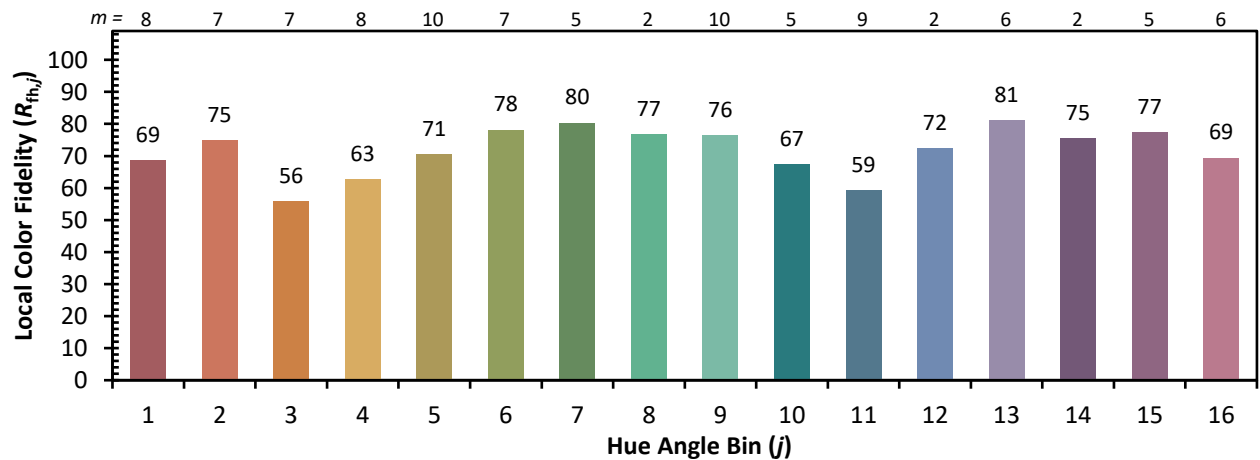
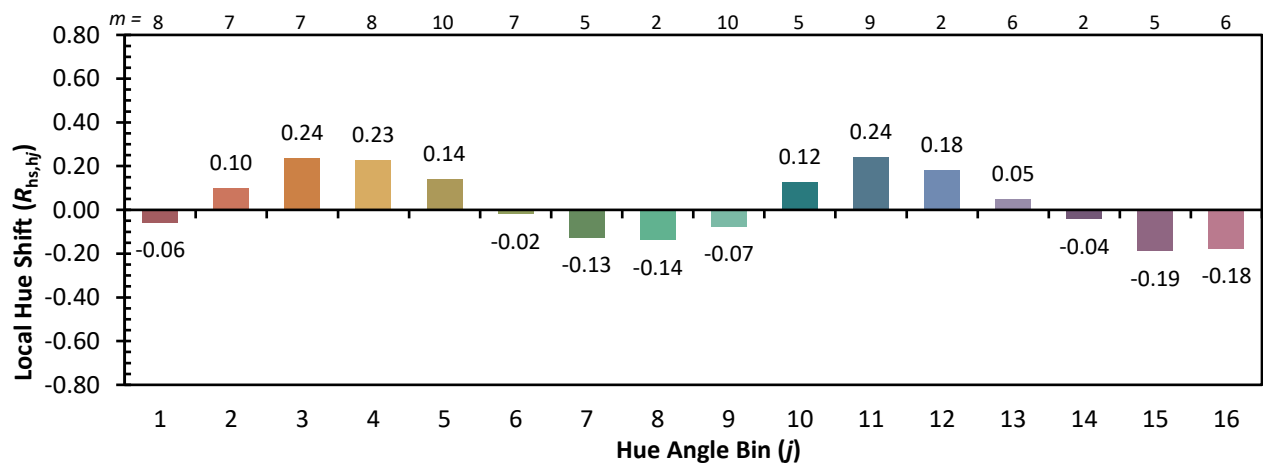
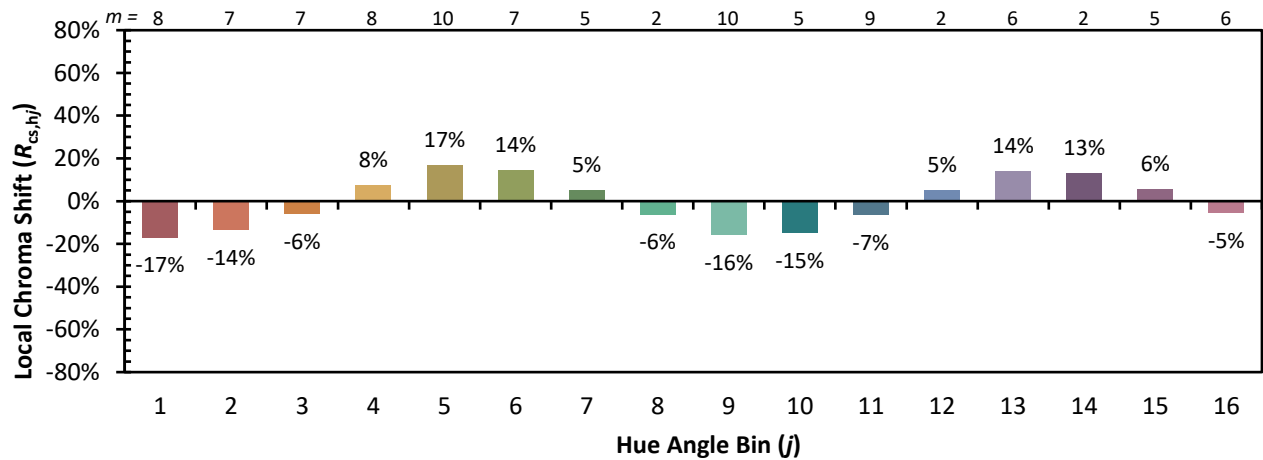


Individual Sample Fidelity Index ($R_{f,i}$)

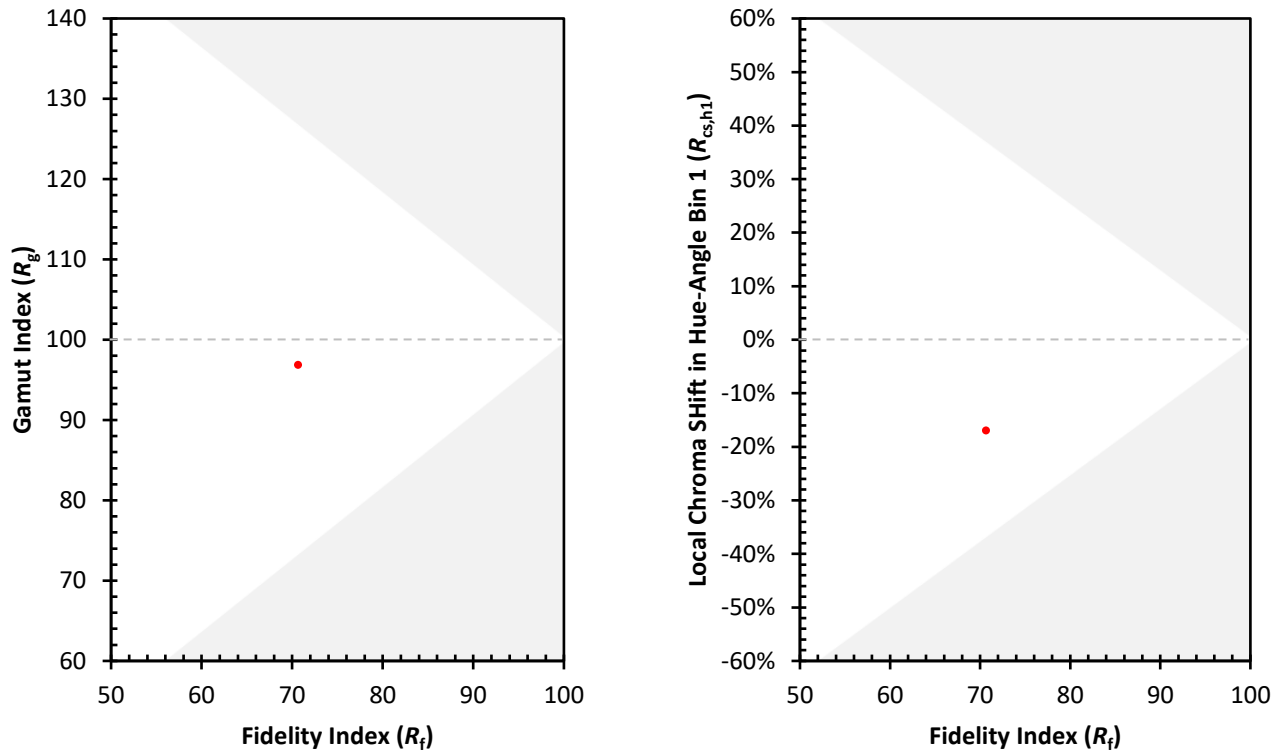
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)