

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: McGRAW-EDISON

Report Number: P1049489

Luminaire Tested: **GALN-SA8A-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049489
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26064.7 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 217.6
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

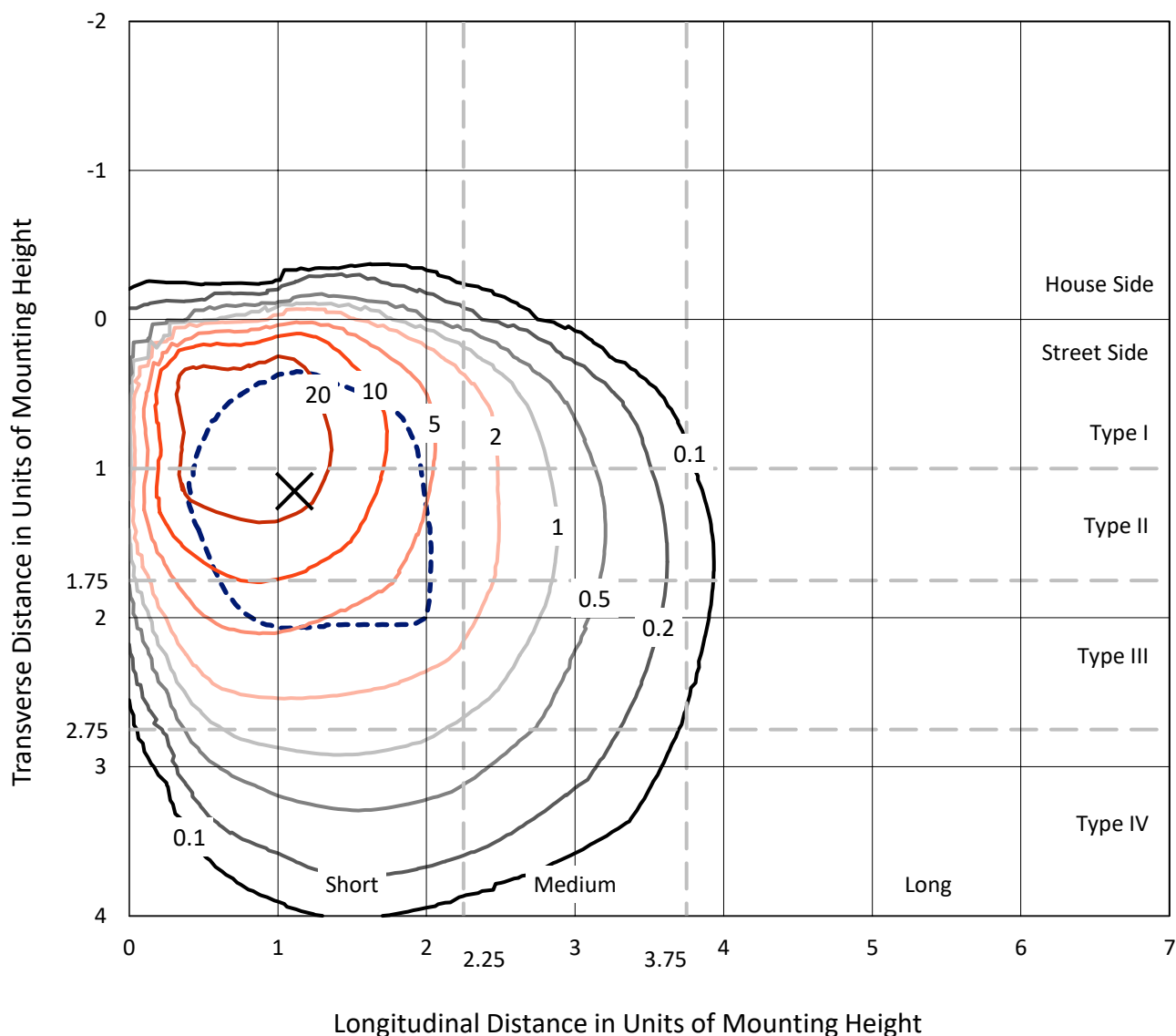
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

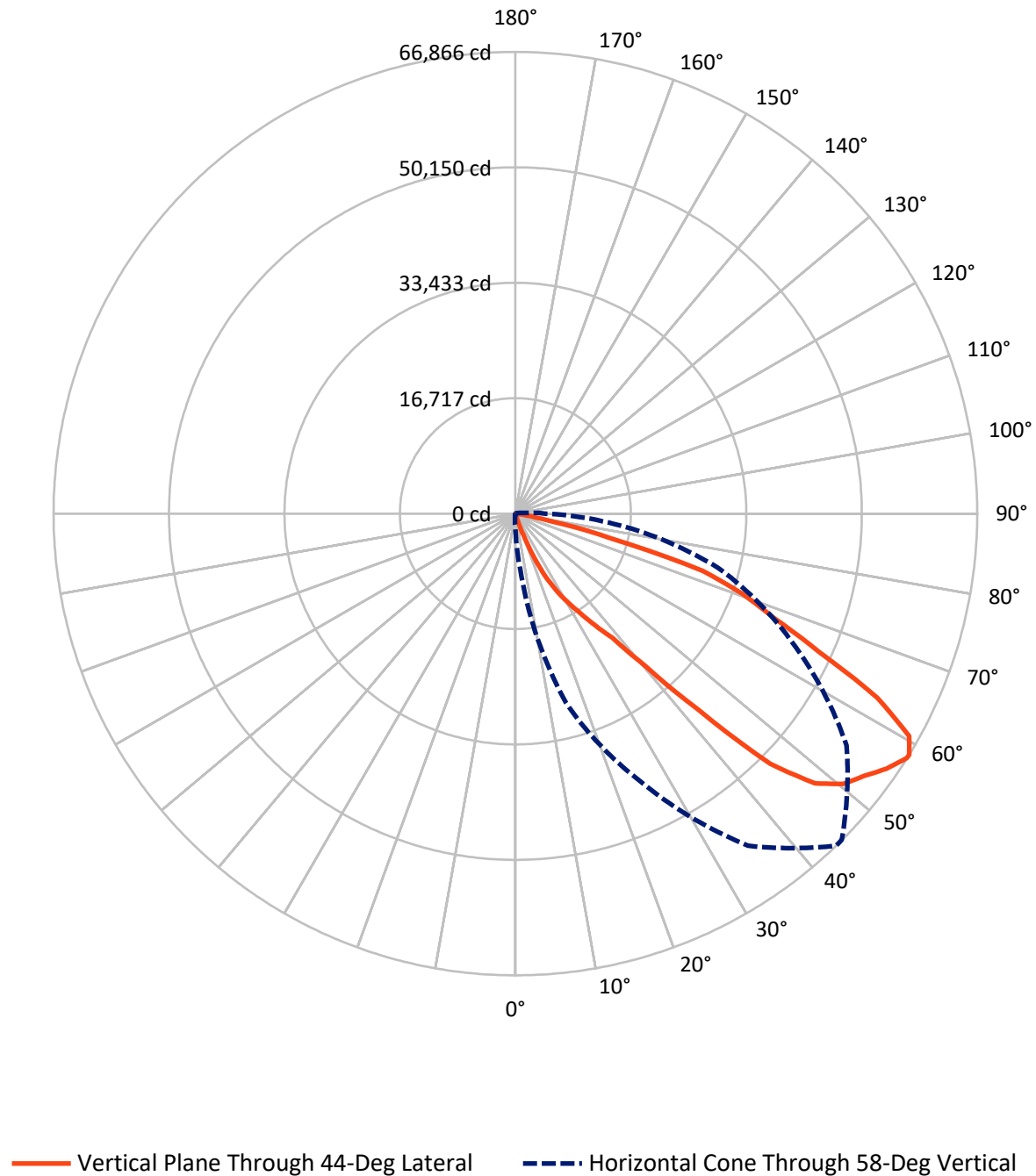


Based on 20 foot mounting height. Maximum calculated value = 45.4 fc

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	178.0	0.0	178.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25886.8	0.0	25886.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	26064.7	0.0	26064.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.0
10°-20°	57.2	0.2
20°-30°	617.5	2.4
30°-40°	1826.1	7.0
40°-50°	5442.7	20.9
50°-60°	8636.3	33.1
60°-70°	7203.7	27.6
70°-80°	2221.7	8.5
80°-90°	49.3	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°	26064.7	100.0
0°-180°	26064.7	100.0



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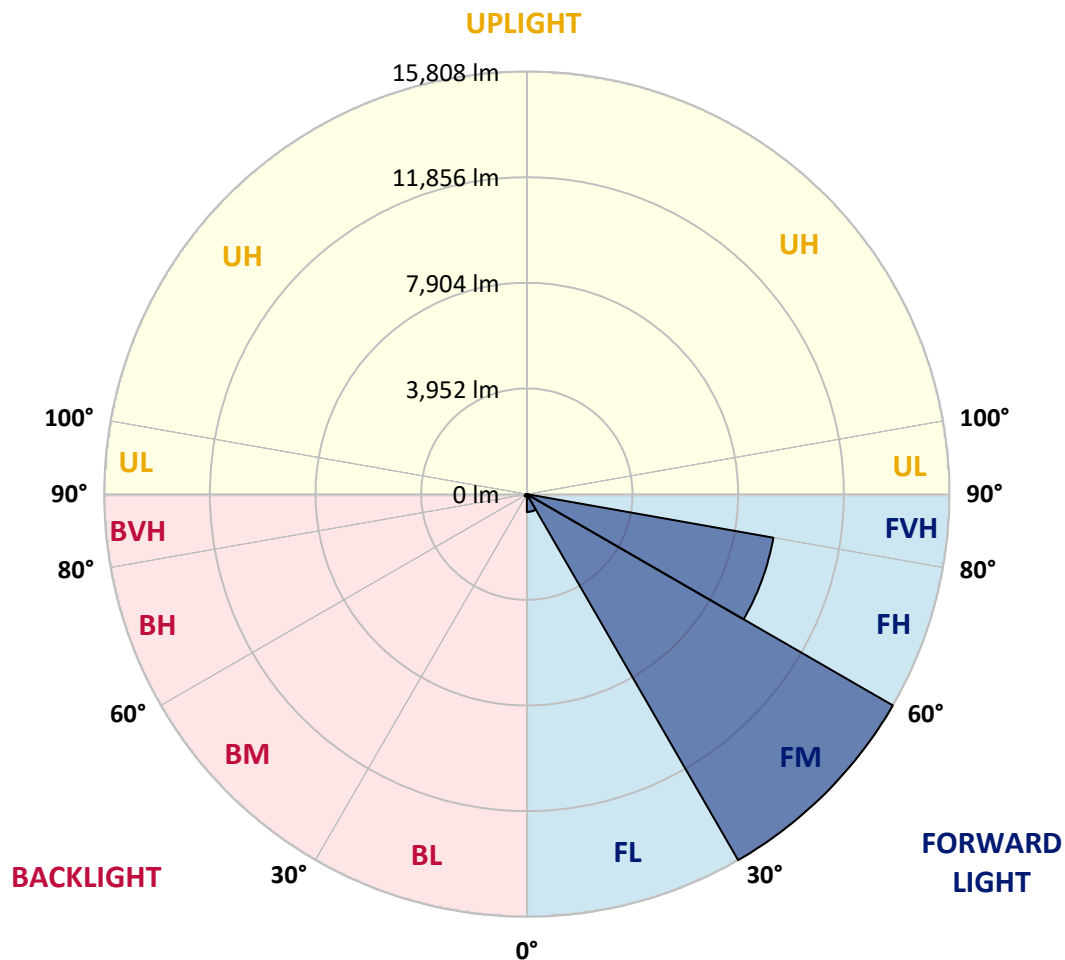
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.4	2.6			
FM	(30°-60°)	15807.7	60.6			
FH	(60°-80°)	9364.7	35.9			G4/12000
FVH	(80°-90°)	47.0	0.2			G1/100
BL	(0°-30°)	17.4	0.1	B0/110		
BM	(30°-60°)	97.4	0.4	B0/220		
BH	(60°-80°)	60.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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°	44°	45°	55°	65°	75°
0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	147.7	147.7	141.8	133.9	126.0	118.1	116.2	112.2	110.3	108.3
5°	153.6	153.6	151.6	145.7	137.8	131.9	131.9	126.0	122.1	118.1
7.5°	157.5	159.5	163.4	161.5	157.5	151.6	151.6	147.7	141.8	131.9
10°	163.4	169.3	177.2	181.1	183.1	183.1	181.1	179.2	169.3	155.5
12.5°	169.3	181.1	200.8	220.5	232.3	248.1	246.1	242.2	216.6	187.1
15°	181.1	198.9	240.2	297.3	385.9	441.0	462.7	443.0	358.4	252.0
17.5°	194.9	224.5	348.5	622.2	1019.9	1208.9	1323.1	1230.6	815.2	478.5
20°	208.7	273.7	647.8	1612.6	2646.3	3264.5	3435.8	3168.1	2033.9	911.6
22.5°	232.3	383.9	1313.3	3333.5	5702.1	6629.5	6804.8	5948.3	3841.5	1799.6
25°	281.6	557.2	2264.3	5432.4	8509.9	10075.2	10002.4	8880.0	6231.8	2874.7
27.5°	352.4	811.2	3424.0	7718.4	11199.5	12579.7	12745.1	11357.0	8307.1	4227.4
30°	454.8	1124.3	4668.4	9549.5	13355.5	14848.0	14875.6	13440.2	10163.8	5414.7
32.5°	553.3	1419.6	5757.3	11319.6	15480.0	17116.2	17238.3	15472.2	11550.0	6651.2
35°	628.1	1612.6	6859.9	12875.1	17622.3	19876.7	19868.9	17771.9	13192.1	7755.8
37.5°	634.0	1805.5	7858.2	14466.0	20335.5	22859.7	23109.8	20798.2	15176.8	9122.2
40°	620.2	2022.1	9122.2	16946.9	25224.5	29097.4	29317.9	26403.9	19158.1	11461.4
42.5°	636.0	2398.2	11173.9	21528.7	33342.5	38904.8	39330.1	36266.4	26476.7	16234.1
45°	718.7	3105.1	15472.2	29193.9	44914.1	51695.3	51553.5	47141.0	34992.5	23499.6
47.5°	992.4	4835.8	21843.7	36654.3	52309.6	58348.4	58470.5	53077.5	39962.2	29085.6
50°	1526.0	7399.4	27197.4	40598.2	55489.5	61548.0	61433.8	55202.0	41850.4	31836.2
52.5°	1984.7	9254.2	29883.0	41982.3	55897.0	63129.1	63121.2	55761.2	42143.8	32072.5
55°	2098.9	9393.9	29904.7	42057.2	56810.6	65198.4	65458.3	57137.5	42523.8	31040.8
57.5°	2053.6	8316.9	28656.4	42490.3	58437.0	66799.2	66813.0	58470.5	43488.6	30408.7
58°	2014.3	8147.6	28404.3	42736.5	58716.6	66866.2	66832.7	58531.5	44274.2	30385.1
60°	1793.7	7074.5	27421.8	43364.6	58301.1	65491.8	65178.8	57198.5	44158.0	30142.9
62.5°	1409.8	5519.0	26455.1	42638.0	53847.3	58838.7	58968.6	50639.9	40255.6	28731.2
65°	1122.3	4113.2	24438.8	37400.5	44341.2	48318.5	48802.8	41179.0	33600.4	24328.6
67.5°	893.9	2973.1	20500.9	29776.7	35087.0	40326.4	40678.9	34573.1	26031.7	18640.2
70°	726.5	2010.3	14151.0	21776.8	28939.9	34831.0	34852.7	28721.3	19429.8	12213.5
72.5°	643.9	1392.1	8214.5	15881.7	23466.2	28382.7	27809.7	23306.7	14932.7	7234.0
75°	557.2	923.4	4028.5	9709.0	14227.8	14324.2	14542.8	10811.6	7464.4	3439.8
77.5°	458.8	655.7	1587.0	2652.2	4266.8	5461.9	5664.7	4292.4	2482.9	846.7
80°	315.0	311.1	427.3	813.2	1220.8	1529.9	1427.5	1104.6	649.8	324.9
82.5°	135.9	147.7	193.0	232.3	189.0	183.1	175.2	112.2	86.6	66.9
85°	43.3	39.4	41.3	41.3	33.5	25.6	25.6	11.8	0.0	0.0
87.5°	21.7	17.7	17.7	15.8	9.8	3.9	2.0	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

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
114.2	0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
106.3	2.5°	104.4	104.4	100.4	96.5	94.5	90.6	88.6	86.6	84.7	82.7
114.2	5°	110.3	108.3	102.4	96.5	90.6	84.7	80.7	76.8	72.9	70.9
126.0	7.5°	120.1	116.2	104.4	94.5	86.6	78.8	74.8	68.9	65.0	59.1
139.8	10°	131.9	124.0	108.3	96.5	84.7	74.8	68.9	63.0	57.1	49.2
159.5	12.5°	147.7	133.9	114.2	94.5	80.7	68.9	63.0	55.1	49.2	43.3
185.1	15°	161.5	143.7	116.2	94.5	76.8	63.0	55.1	47.3	41.3	33.5
232.3	17.5°	181.1	151.6	114.2	88.6	70.9	55.1	47.3	41.3	31.5	19.7
344.6	20°	214.6	157.5	110.3	82.7	61.0	45.3	35.4	27.6	13.8	3.9
517.8	22.5°	267.8	173.3	106.3	74.8	53.2	35.4	23.6	9.8	0.0	0.0
787.6	25°	370.2	200.8	106.3	70.9	47.3	25.6	7.9	0.0	0.0	0.0
1118.4	27.5°	492.2	238.2	106.3	61.0	37.4	13.8	0.0	0.0	0.0	0.0
1524.0	30°	616.3	279.6	106.3	53.2	29.5	2.0	0.0	0.0	0.0	0.0
1876.4	32.5°	734.4	315.0	108.3	45.3	19.7	0.0	0.0	0.0	0.0	0.0
2364.7	35°	854.5	320.9	106.3	39.4	11.8	0.0	0.0	0.0	0.0	0.0
2963.3	37.5°	1008.1	309.1	100.4	35.4	5.9	0.0	0.0	0.0	0.0	0.0
3898.6	40°	1240.4	315.0	94.5	33.5	2.0	0.0	0.0	0.0	0.0	0.0
5566.3	42.5°	1669.7	340.6	86.6	33.5	0.0	0.0	0.0	0.0	0.0	0.0
8866.3	45°	2886.5	456.8	78.8	35.4	0.0	0.0	0.0	0.0	0.0	0.0
13310.2	47.5°	4774.7	821.1	76.8	35.4	0.0	0.0	0.0	0.0	0.0	0.0
16033.3	50°	6094.0	1033.7	80.7	37.4	0.0	0.0	0.0	0.0	0.0	0.0
16373.9	52.5°	6084.1	1151.8	84.7	39.4	7.9	0.0	0.0	0.0	0.0	0.0
15092.1	55°	5408.8	1173.5	90.6	43.3	25.6	0.0	0.0	0.0	0.0	0.0
12969.6	57.5°	4520.8	1071.1	104.4	53.2	47.3	0.0	0.0	0.0	0.0	0.0
12636.8	58°	4363.2	1023.9	108.3	55.1	51.2	0.0	0.0	0.0	0.0	0.0
10961.2	60°	3575.6	834.8	137.8	68.9	68.9	0.0	0.0	0.0	0.0	0.0
8986.4	62.5°	2469.1	728.5	157.5	88.6	70.9	0.0	0.0	0.0	0.0	0.0
6625.6	65°	1746.5	657.6	171.3	94.5	57.1	0.0	0.0	0.0	0.0	0.0
4707.8	67.5°	1305.4	606.4	189.0	96.5	29.5	0.0	0.0	0.0	0.0	0.0
2953.5	70°	1000.2	569.0	232.3	102.4	7.9	0.0	0.0	0.0	0.0	0.0
1760.3	72.5°	815.2	525.7	281.6	106.3	0.0	0.0	0.0	0.0	0.0	0.0
1055.4	75°	675.4	474.5	271.7	116.2	0.0	0.0	0.0	0.0	0.0	0.0
563.1	77.5°	448.9	368.2	248.1	116.2	0.0	0.0	0.0	0.0	0.0	0.0
200.8	80°	157.5	145.7	193.0	102.4	0.0	0.0	0.0	0.0	0.0	0.0
41.3	82.5°	23.6	19.7	27.6	35.4	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
114.2	0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
80.7	2.5°	80.7	80.7	78.8	80.7	80.7	84.7	94.5	108.3	124.0	130.0
68.9	5°	66.9	65.0	63.0	63.0	63.0	68.9	76.8	92.5	110.3	118.1
57.1	7.5°	55.1	53.2	51.2	49.2	49.2	53.2	63.0	80.7	98.4	106.3
47.3	10°	45.3	41.3	39.4	37.4	37.4	41.3	51.2	68.9	88.6	96.5
39.4	12.5°	37.4	31.5	27.6	25.6	23.6	29.5	39.4	55.1	76.8	86.6
29.5	15°	25.6	19.7	13.8	11.8	9.8	15.8	25.6	43.3	65.0	76.8
15.8	17.5°	13.8	5.9	2.0	0.0	0.0	3.9	11.8	31.5	53.2	63.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	39.4	49.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.6	33.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	17.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	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	5.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.8
0.0	90°	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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
114.2	0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
135.9	2.5°	139.8	137.8	133.9	130.0	130.0	130.0	135.9	141.8	147.7	147.7
122.1	5°	130.0	130.0	128.0	124.0	124.0	126.0	133.9	143.7	151.6	153.6
112.2	7.5°	120.1	124.0	120.1	118.1	120.1	122.1	130.0	141.8	153.6	157.5
104.4	10°	114.2	116.2	116.2	114.2	114.2	118.1	126.0	141.8	157.5	163.4
94.5	12.5°	106.3	110.3	108.3	108.3	108.3	112.2	122.1	139.8	161.5	169.3
84.7	15°	98.4	104.4	104.4	102.4	102.4	104.4	118.1	137.8	167.4	181.1
72.9	17.5°	90.6	96.5	98.4	94.5	94.5	98.4	112.2	137.8	171.3	194.9
59.1	20°	74.8	84.7	90.6	84.7	84.7	88.6	102.4	130.0	173.3	208.7
43.3	22.5°	59.1	68.9	76.8	74.8	74.8	76.8	94.5	124.0	175.2	232.3
25.6	25°	43.3	53.2	59.1	63.0	63.0	68.9	86.6	120.1	183.1	281.6
11.8	27.5°	25.6	37.4	45.3	49.2	51.2	59.1	80.7	116.2	196.9	352.4
0.0	30°	11.8	21.7	31.5	39.4	39.4	53.2	74.8	112.2	214.6	454.8
0.0	32.5°	0.0	9.8	15.8	27.6	29.5	43.3	68.9	108.3	240.2	553.3
0.0	35°	0.0	0.0	7.9	21.7	21.7	35.4	63.0	104.4	279.6	628.1
0.0	37.5°	0.0	0.0	0.0	15.8	17.7	31.5	61.0	102.4	287.5	634.0
0.0	40°	0.0	0.0	0.0	11.8	13.8	29.5	61.0	104.4	259.9	620.2
0.0	42.5°	0.0	0.0	0.0	7.9	9.8	29.5	61.0	108.3	234.3	636.0
0.0	45°	0.0	0.0	0.0	5.9	7.9	31.5	59.1	106.3	220.5	718.7
0.0	47.5°	0.0	0.0	0.0	7.9	11.8	31.5	57.1	104.4	222.5	992.4
0.0	50°	0.0	0.0	0.0	9.8	13.8	31.5	59.1	100.4	244.2	1526.0
0.0	52.5°	0.0	0.0	0.0	7.9	11.8	35.4	65.0	98.4	265.8	1984.7
0.0	55°	0.0	0.0	0.0	2.0	5.9	45.3	70.9	98.4	299.3	2098.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	51.2	80.7	104.4	354.4	2053.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	51.2	82.7	104.4	358.4	2014.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	51.2	90.6	116.2	385.9	1793.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	43.3	108.3	145.7	401.7	1409.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.4	128.0	159.5	413.5	1122.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.5	131.9	161.5	419.4	893.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.4	130.0	173.3	439.1	726.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.4	118.1	191.0	439.1	643.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	41.3	110.3	214.6	399.7	557.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.4	108.3	250.1	356.4	458.8
0.0	80°	3.9	5.9	5.9	3.9	3.9	33.5	106.3	254.0	303.2	315.0
2.0	82.5°	11.8	15.8	13.8	9.8	9.8	29.5	94.5	212.6	157.5	135.9
11.8	85°	21.7	25.6	25.6	21.7	21.7	27.6	59.1	76.8	53.2	43.3
21.7	87.5°	29.5	33.5	33.5	29.5	29.5	27.6	25.6	23.6	21.7	21.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

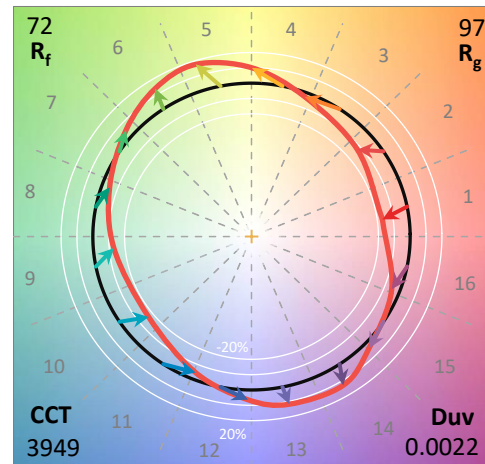
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

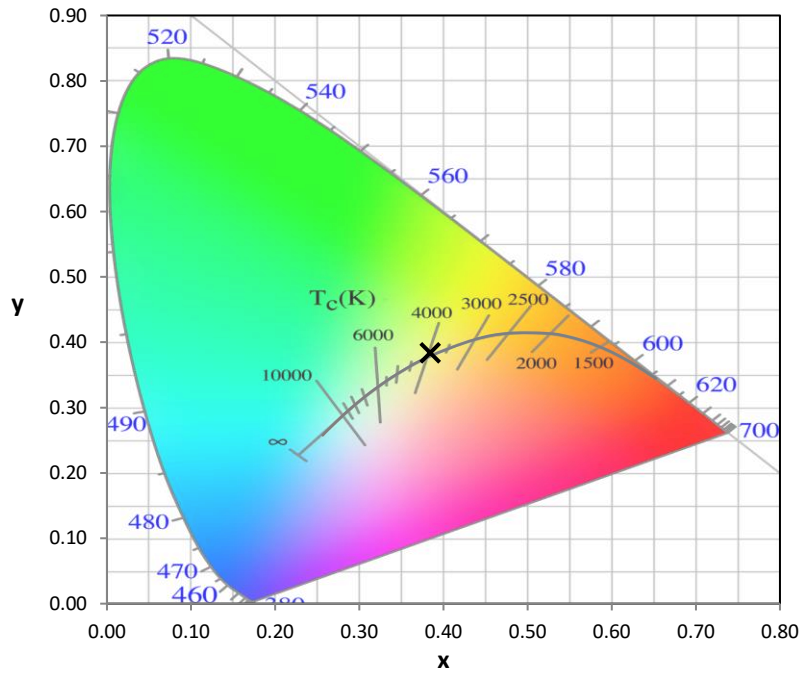
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

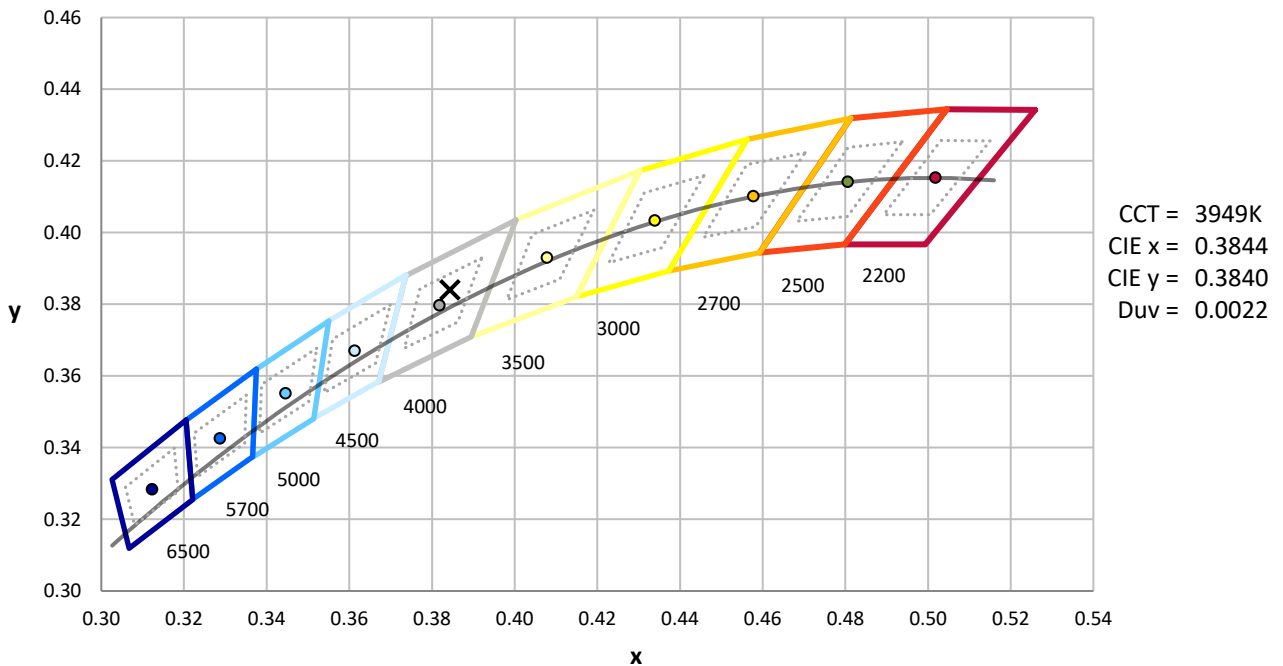
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-1

CIE 1931 Chromaticity Diagram



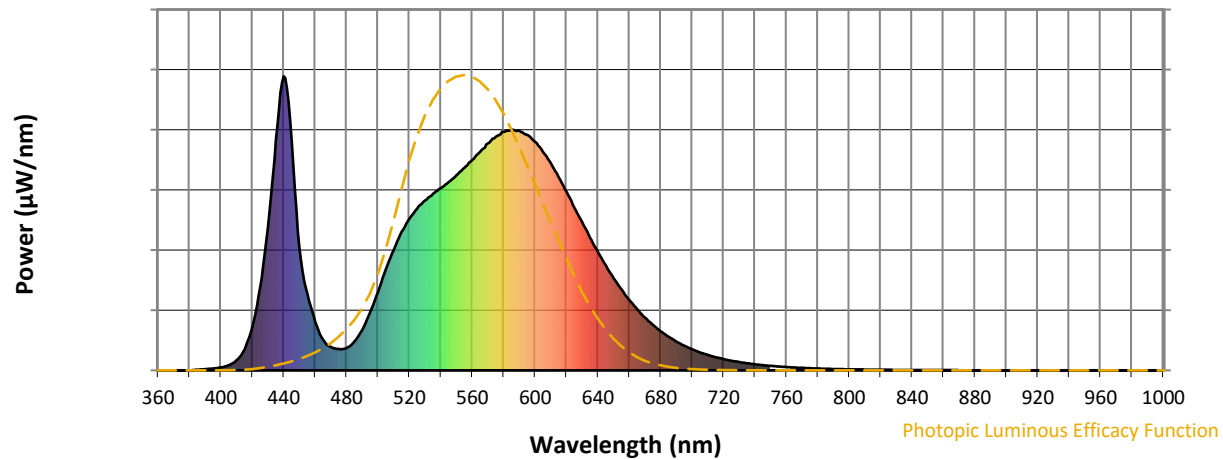
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

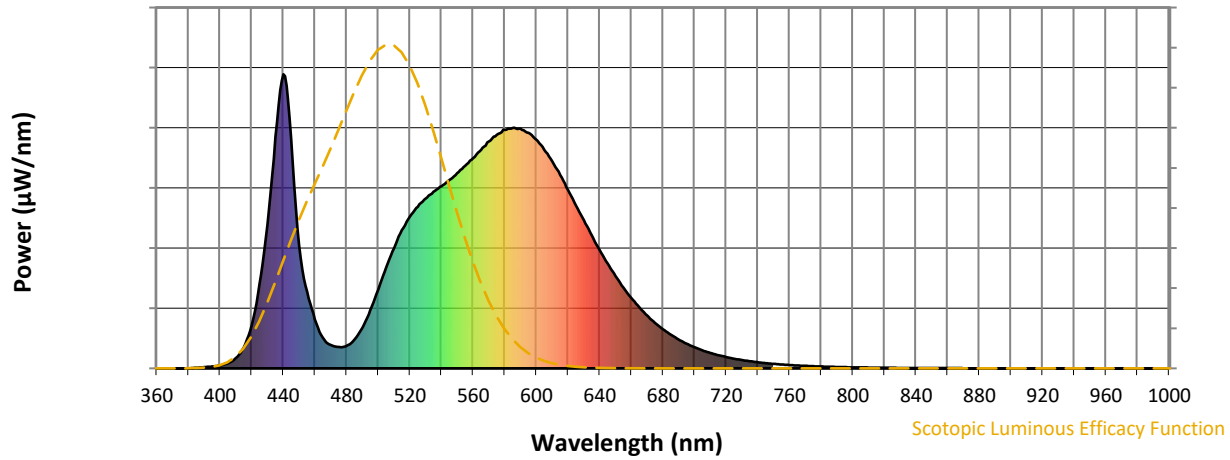


Photopic Lumens: NR

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



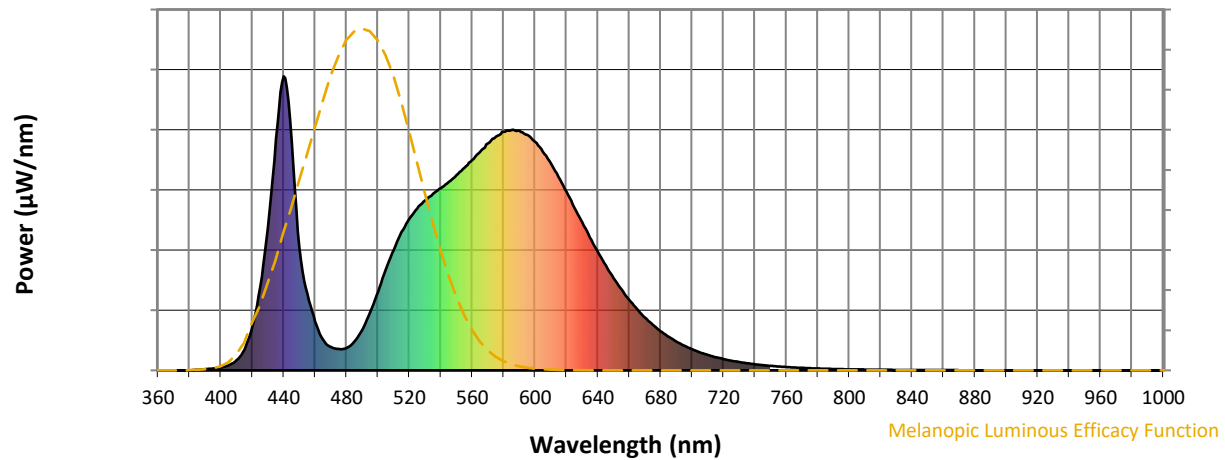
Scotopic Lumens: NR

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

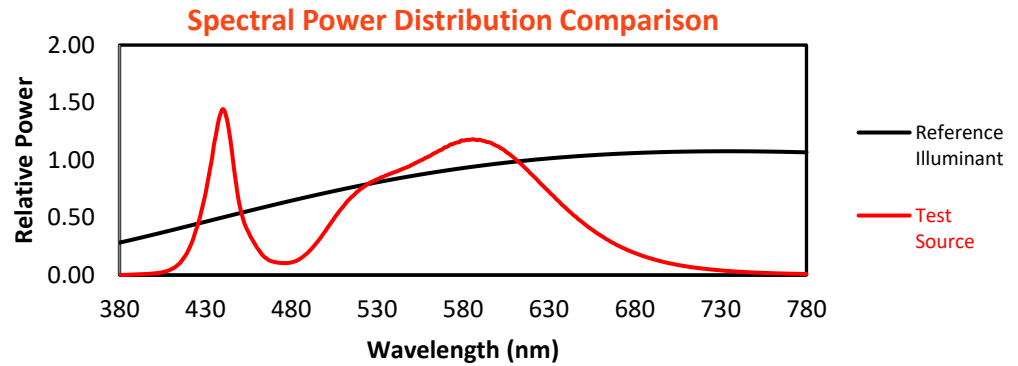
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	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

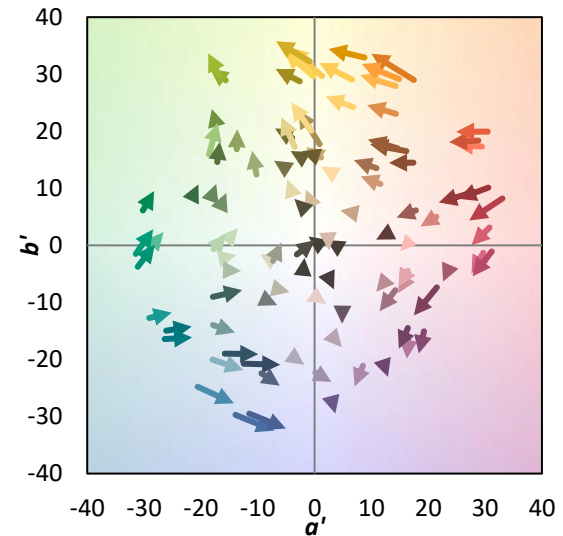
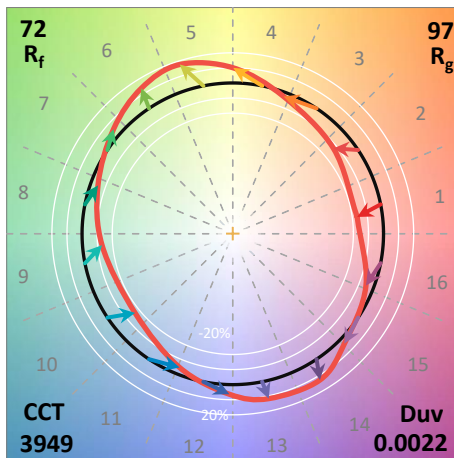
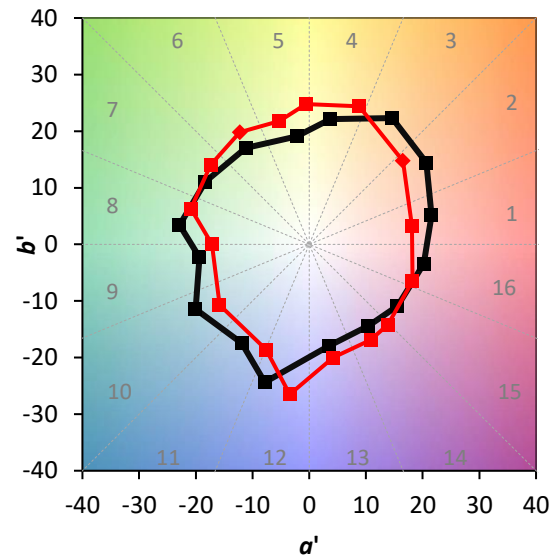
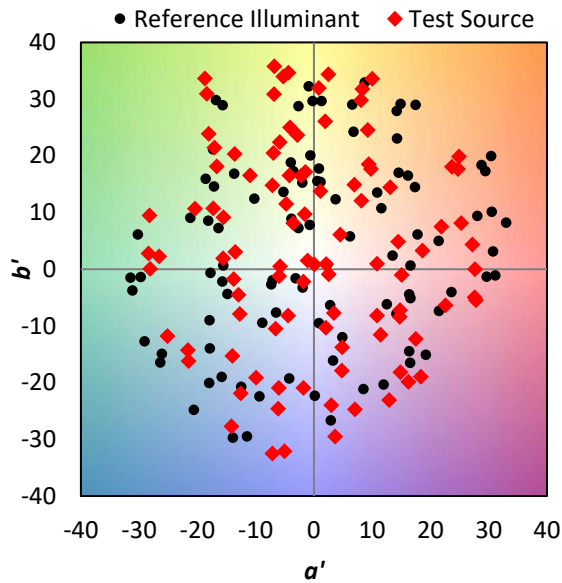
TM-30-18

Summary

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

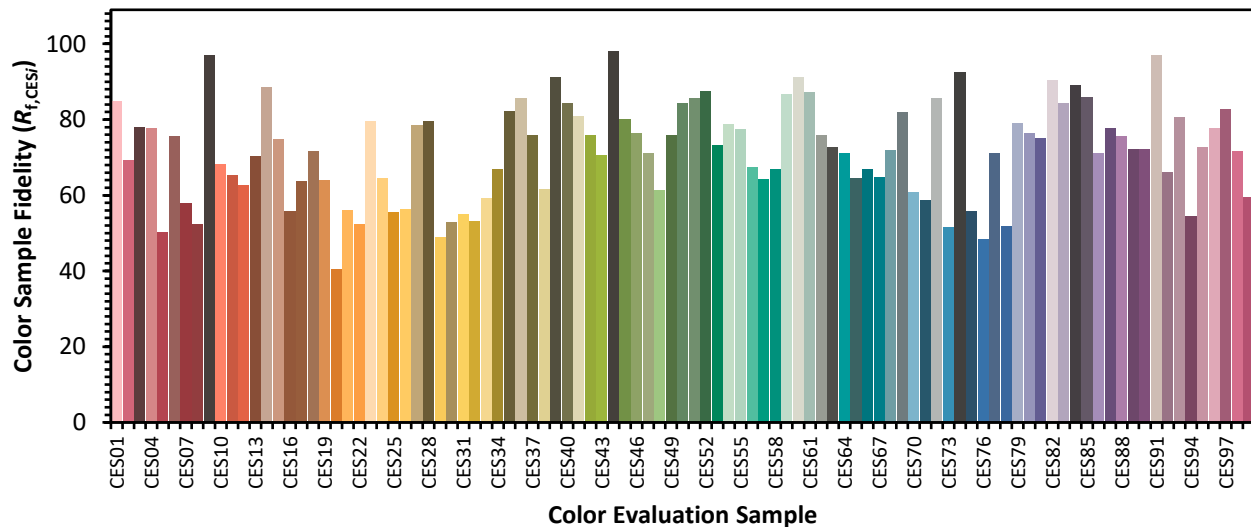


Color Vector Graphics

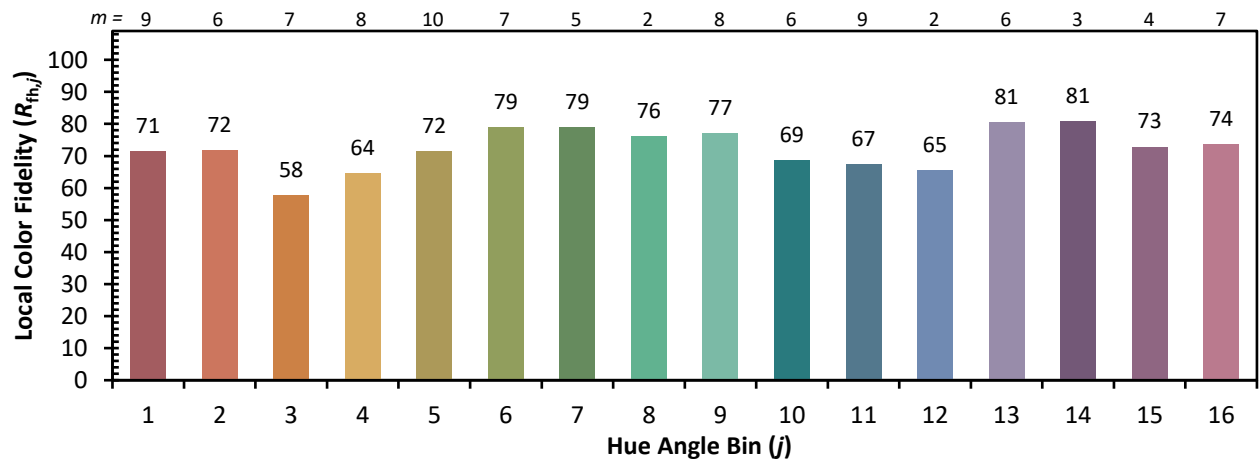
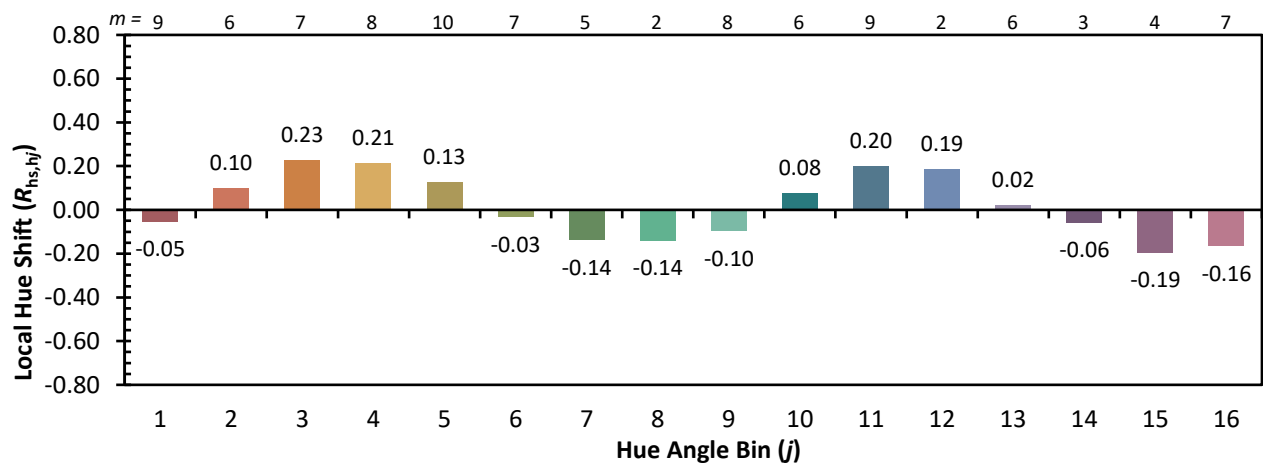
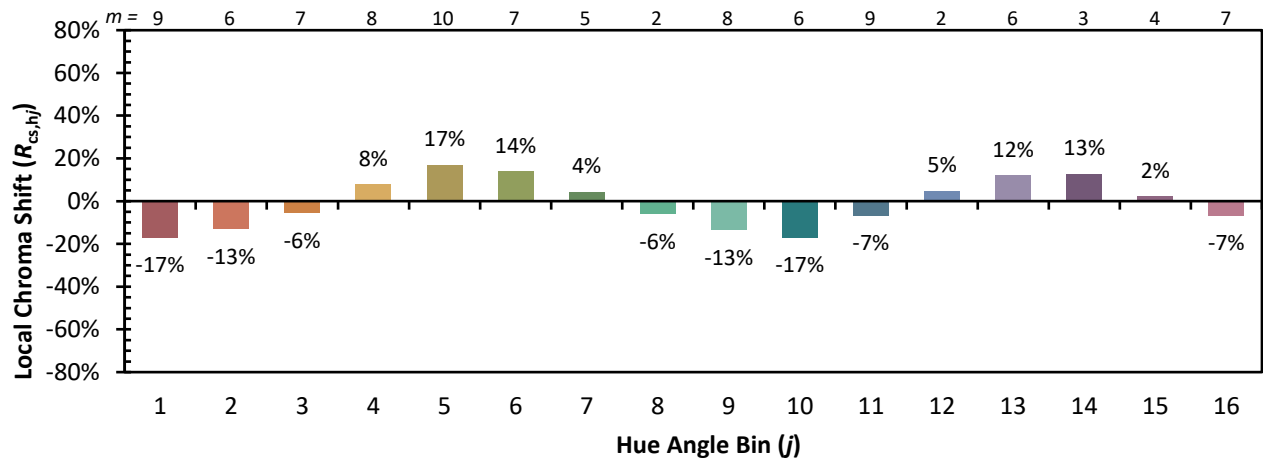


Individual Sample Fidelity Index ($R_{f,i}$)

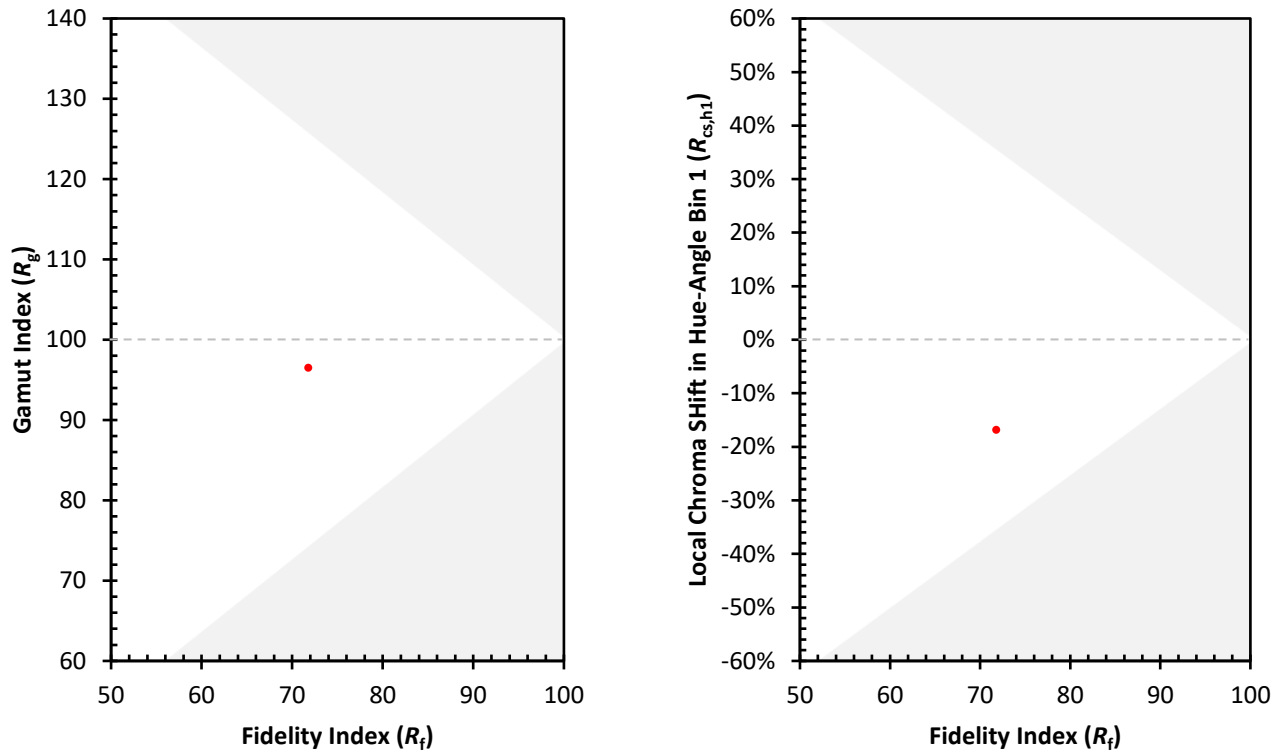
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 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)