

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: P1049490

Luminaire Tested: **GALN-SA8B-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049490
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 32589.6 lumens
Efficiency: N/A
Efficacy: 115.2 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

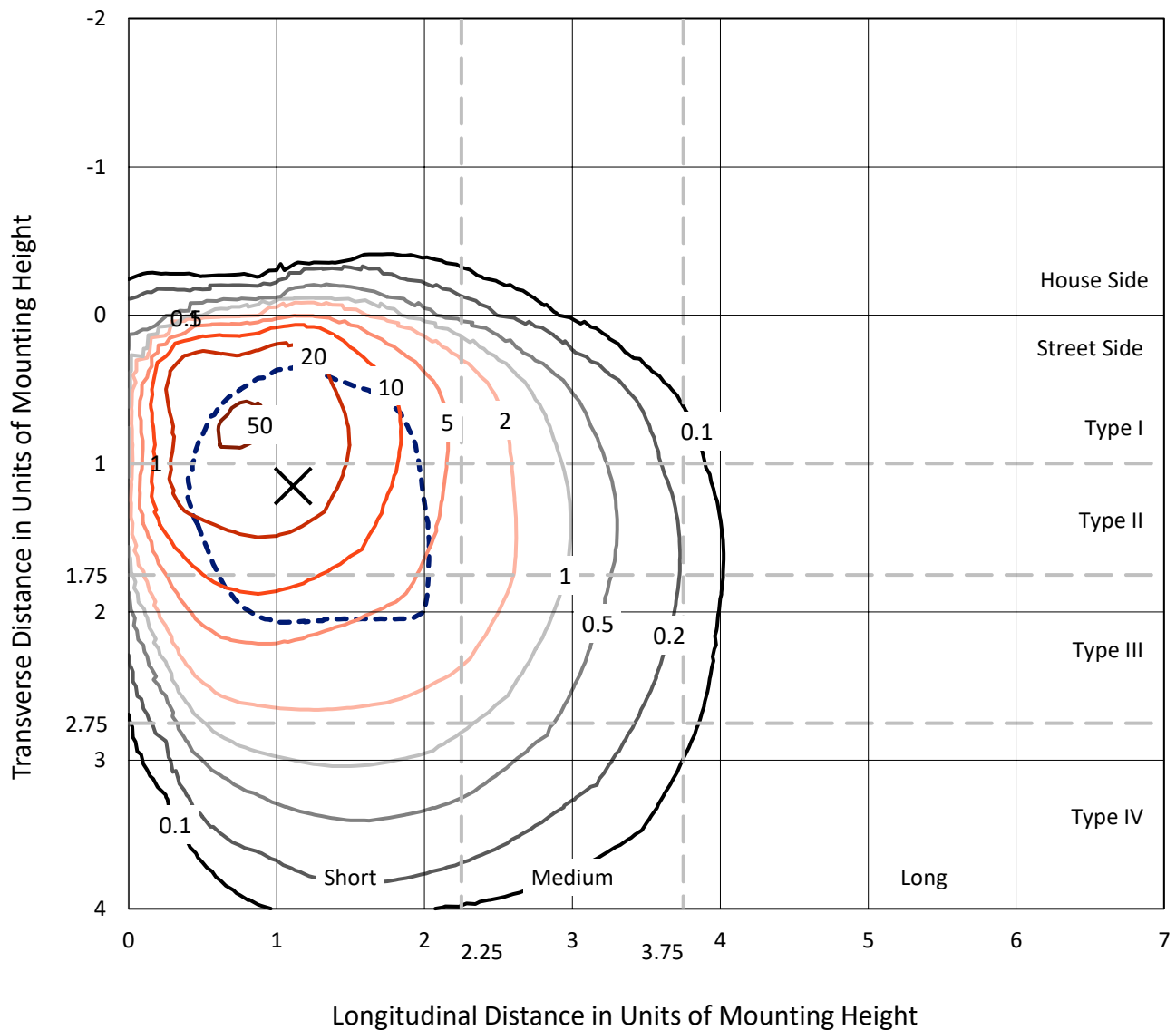
Input Watts (W): 282.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

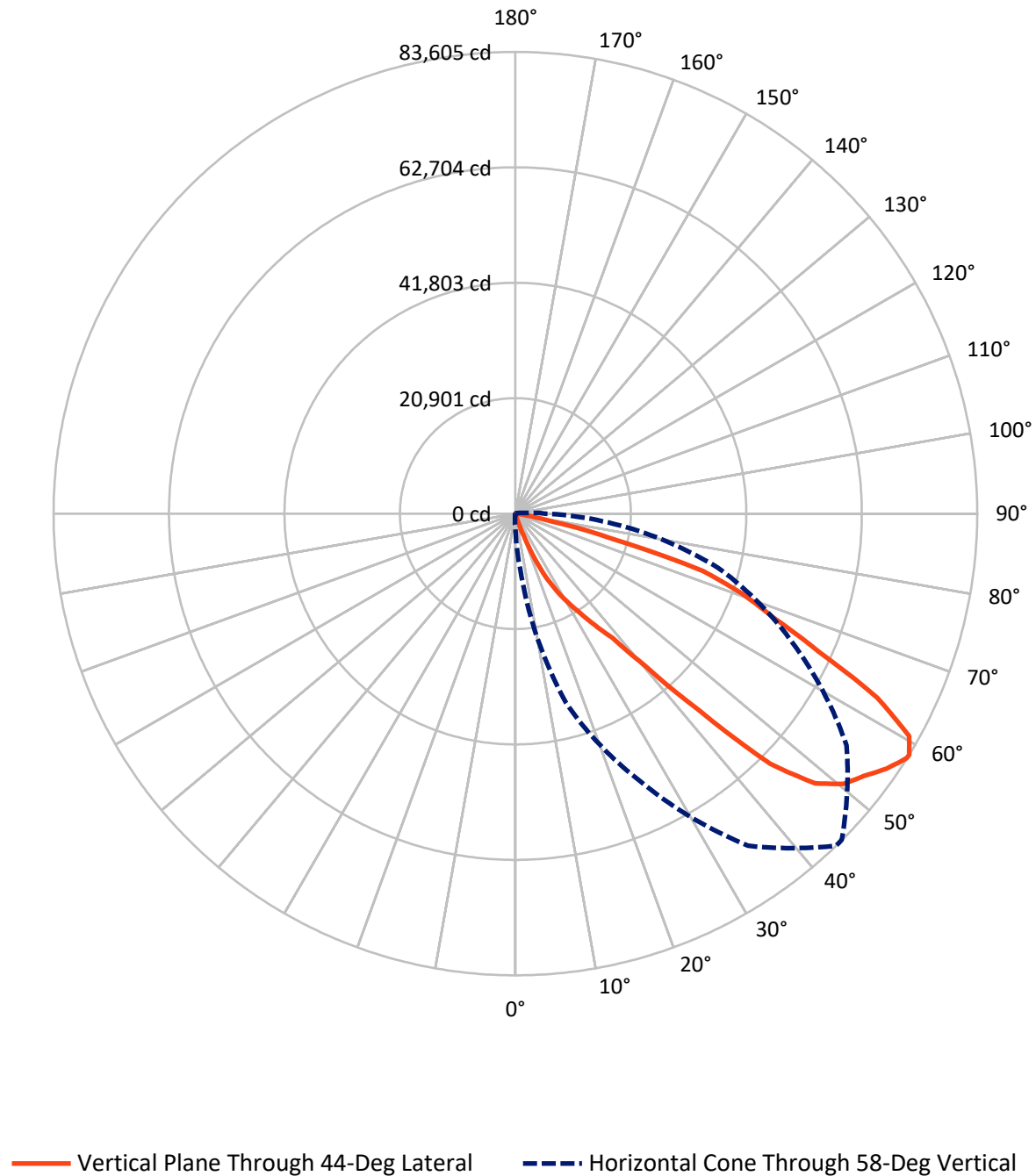
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.7 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	222.5	0.0	222.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32367.1	0.0	32367.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	32589.6	0.0	32589.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	0.0
10°-20°	71.5	0.2
20°-30°	772.0	2.4
30°-40°	2283.2	7.0
40°-50°	6805.2	20.9
50°-60°	10798.2	33.1
60°-70°	9007.0	27.6
70°-80°	2777.9	8.5
80°-90°	61.7	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°	32589.6	100.0
0°-180°	32589.6	100.0



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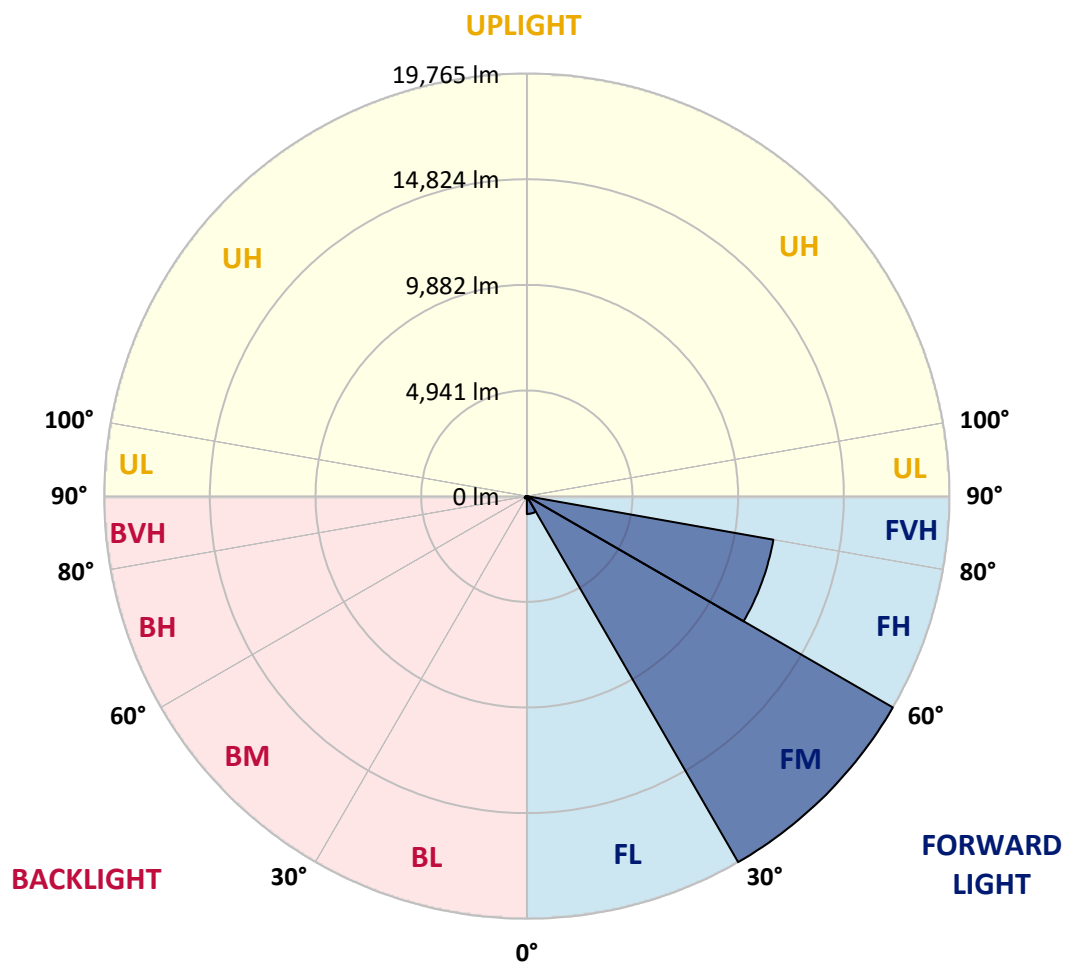
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.5	2.6			
FM	(30°-60°)	19764.9	60.6			
FH	(60°-80°)	11709.0	35.9			G4/12000
FVH	(80°-90°)	58.7	0.2			G1/100
BL	(0°-30°)	21.8	0.1	B0/110		
BM	(30°-60°)	121.8	0.4	B0/220		
BH	(60°-80°)	76.0	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8
2.5°	184.6	184.6	177.3	167.4	157.6	147.7	145.3	140.3	137.9	135.4
5°	192.0	192.0	189.6	182.2	172.3	164.9	164.9	157.6	152.6	147.7
7.5°	196.9	199.4	204.3	201.9	196.9	189.6	189.6	184.6	177.3	164.9
10°	204.3	211.7	221.6	226.5	229.0	229.0	226.5	224.0	211.7	194.5
12.5°	211.7	226.5	251.1	275.7	290.5	310.2	307.7	302.8	270.8	233.9
15°	226.5	248.6	300.3	371.7	482.5	551.5	578.5	553.9	448.1	315.1
17.5°	243.7	280.7	435.8	778.0	1275.2	1511.6	1654.4	1538.7	1019.2	598.2
20°	261.0	342.2	810.0	2016.3	3308.7	4081.8	4296.0	3961.1	2543.1	1139.8
22.5°	290.5	480.1	1642.1	4167.9	7129.6	8289.1	8508.2	7437.3	4803.1	2250.1
25°	352.0	696.7	2831.1	6792.3	10640.2	12597.4	12506.3	11103.0	7791.8	3594.3
27.5°	440.7	1014.3	4281.2	9650.5	14003.1	15728.9	15935.7	14200.1	10386.6	5285.6
30°	568.7	1405.7	5837.1	11940.1	16698.8	18564.9	18599.4	16804.7	12708.2	6770.1
32.5°	691.8	1775.0	7198.5	14153.3	19355.2	21401.0	21553.6	19345.4	14441.3	8316.2
35°	785.3	2016.3	8577.1	16098.2	22033.7	24852.6	24842.7	22220.8	16494.5	9697.3
37.5°	792.7	2257.5	9825.3	18087.3	25426.2	28582.3	28894.9	26004.7	18976.1	11405.8
40°	775.5	2528.3	11405.8	21189.3	31539.0	36381.5	36657.2	33013.6	23954.0	14330.5
42.5°	795.2	2998.6	13971.1	26918.1	41689.3	48644.0	49175.8	45345.1	33104.7	20298.1
45°	898.6	3882.4	19345.4	36502.1	56157.7	64636.3	64459.1	58942.0	43752.3	29382.4
47.5°	1240.8	6046.3	27312.0	45830.1	65404.4	72955.0	73107.6	66364.6	49966.1	36366.7
50°	1907.9	9251.7	34005.8	50761.2	69380.3	76955.5	76812.7	69020.9	52327.0	39805.9
52.5°	2481.6	11570.8	37363.8	52491.9	69890.0	78932.4	78922.5	69720.1	52693.8	40101.4
55°	2624.4	11745.6	37390.8	52585.5	71032.3	81519.8	81844.8	71440.9	53168.9	38811.3
57.5°	2567.7	10398.9	35830.0	53127.1	73065.8	83521.3	83538.5	73107.6	54375.3	38021.1
58°	2518.5	10187.2	35514.9	53434.8	73415.3	83605.0	83563.2	73183.9	55357.5	37991.5
60°	2242.8	8845.5	34286.4	54220.2	72895.9	81886.6	81495.2	71517.2	55212.3	37688.7
62.5°	1762.7	6900.6	33077.6	53311.7	67327.1	73568.0	73730.5	63316.8	50332.9	35923.6
65°	1403.3	5142.8	30556.7	46763.2	55441.3	60414.2	61019.8	51487.5	42011.8	30418.8
67.5°	1117.7	3717.4	25633.0	37230.8	43870.5	50421.5	50862.2	43227.9	32548.3	23306.5
70°	908.4	2513.6	17693.4	27228.3	36184.5	43550.4	43577.5	35911.3	24293.7	15271.0
72.5°	805.0	1740.5	10270.9	19857.4	29340.5	35487.8	34771.4	29141.1	18670.8	9044.9
75°	696.7	1154.6	5037.0	12139.5	17789.5	17910.1	18183.4	13518.1	9332.9	4300.9
77.5°	573.6	819.8	1984.3	3316.1	5334.9	6829.2	7082.8	5366.9	3104.4	1058.6
80°	393.9	389.0	534.2	1016.8	1526.4	1912.9	1784.9	1381.1	812.4	406.2
82.5°	169.9	184.6	241.3	290.5	236.3	229.0	219.1	140.3	108.3	83.7
85°	54.2	49.2	51.7	51.7	41.9	32.0	32.0	14.8	0.0	0.0
87.5°	27.1	22.2	22.2	19.7	12.3	4.9	2.5	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°
142.8	0°	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8
132.9	2.5°	130.5	130.5	125.6	120.6	118.2	113.2	110.8	108.3	105.9	103.4
142.8	5°	137.9	135.4	128.0	120.6	113.2	105.9	100.9	96.0	91.1	88.6
157.6	7.5°	150.2	145.3	130.5	118.2	108.3	98.5	93.6	86.2	81.2	73.9
174.8	10°	164.9	155.1	135.4	120.6	105.9	93.6	86.2	78.8	71.4	61.5
199.4	12.5°	184.6	167.4	142.8	118.2	100.9	86.2	78.8	68.9	61.5	54.2
231.4	15°	201.9	179.7	145.3	118.2	96.0	78.8	68.9	59.1	51.7	41.9
290.5	17.5°	226.5	189.6	142.8	110.8	88.6	68.9	59.1	51.7	39.4	24.6
430.8	20°	268.3	196.9	137.9	103.4	76.3	56.6	44.3	34.5	17.2	4.9
647.5	22.5°	334.8	216.6	132.9	93.6	66.5	44.3	29.5	12.3	0.0	0.0
984.7	25°	462.8	251.1	132.9	88.6	59.1	32.0	9.8	0.0	0.0	0.0
1398.3	27.5°	615.5	297.9	132.9	76.3	46.8	17.2	0.0	0.0	0.0	0.0
1905.5	30°	770.6	349.6	132.9	66.5	36.9	2.5	0.0	0.0	0.0	0.0
2346.2	32.5°	918.3	393.9	135.4	56.6	24.6	0.0	0.0	0.0	0.0	0.0
2956.7	35°	1068.5	401.3	132.9	49.2	14.8	0.0	0.0	0.0	0.0	0.0
3705.1	37.5°	1260.5	386.5	125.6	44.3	7.4	0.0	0.0	0.0	0.0	0.0
4874.5	40°	1551.0	393.9	118.2	41.9	2.5	0.0	0.0	0.0	0.0	0.0
6959.7	42.5°	2087.7	425.9	108.3	41.9	0.0	0.0	0.0	0.0	0.0	0.0
11085.8	45°	3609.1	571.2	98.5	44.3	0.0	0.0	0.0	0.0	0.0	0.0
16642.2	47.5°	5970.0	1026.6	96.0	44.3	0.0	0.0	0.0	0.0	0.0	0.0
20047.0	50°	7619.5	1292.5	100.9	46.8	0.0	0.0	0.0	0.0	0.0	0.0
20472.9	52.5°	7607.2	1440.2	105.9	49.2	9.8	0.0	0.0	0.0	0.0	0.0
18870.2	55°	6762.7	1467.3	113.2	54.2	32.0	0.0	0.0	0.0	0.0	0.0
16216.3	57.5°	5652.4	1339.3	130.5	66.5	59.1	0.0	0.0	0.0	0.0	0.0
15800.3	58°	5455.5	1280.2	135.4	68.9	64.0	0.0	0.0	0.0	0.0	0.0
13705.2	60°	4470.8	1043.8	172.3	86.2	86.2	0.0	0.0	0.0	0.0	0.0
11236.0	62.5°	3087.2	910.9	196.9	110.8	88.6	0.0	0.0	0.0	0.0	0.0
8284.2	65°	2183.7	822.3	214.2	118.2	71.4	0.0	0.0	0.0	0.0	0.0
5886.3	67.5°	1632.2	758.3	236.3	120.6	36.9	0.0	0.0	0.0	0.0	0.0
3692.8	70°	1250.6	711.5	290.5	128.0	9.8	0.0	0.0	0.0	0.0	0.0
2200.9	72.5°	1019.2	657.3	352.0	132.9	0.0	0.0	0.0	0.0	0.0	0.0
1319.6	75°	844.4	593.3	339.7	145.3	0.0	0.0	0.0	0.0	0.0	0.0
704.1	77.5°	561.3	460.4	310.2	145.3	0.0	0.0	0.0	0.0	0.0	0.0
251.1	80°	196.9	182.2	241.3	128.0	0.0	0.0	0.0	0.0	0.0	0.0
51.7	82.5°	29.5	24.6	34.5	44.3	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°
142.8	0°	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8
100.9	2.5°	100.9	100.9	98.5	100.9	100.9	105.9	118.2	135.4	155.1	162.5
86.2	5°	83.7	81.2	78.8	78.8	78.8	86.2	96.0	115.7	137.9	147.7
71.4	7.5°	68.9	66.5	64.0	61.5	61.5	66.5	78.8	100.9	123.1	132.9
59.1	10°	56.6	51.7	49.2	46.8	46.8	51.7	64.0	86.2	110.8	120.6
49.2	12.5°	46.8	39.4	34.5	32.0	29.5	36.9	49.2	68.9	96.0	108.3
36.9	15°	32.0	24.6	17.2	14.8	12.3	19.7	32.0	54.2	81.2	96.0
19.7	17.5°	17.2	7.4	2.5	0.0	0.0	4.9	14.8	39.4	66.5	78.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	49.2	61.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.5	41.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	22.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9
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	7.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	19.7
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°
142.8	0°	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8	142.8
169.9	2.5°	174.8	172.3	167.4	162.5	162.5	162.5	169.9	177.3	184.6	184.6
152.6	5°	162.5	162.5	160.0	155.1	155.1	157.6	167.4	179.7	189.6	192.0
140.3	7.5°	150.2	155.1	150.2	147.7	150.2	152.6	162.5	177.3	192.0	196.9
130.5	10°	142.8	145.3	145.3	142.8	142.8	147.7	157.6	177.3	196.9	204.3
118.2	12.5°	132.9	137.9	135.4	135.4	135.4	140.3	152.6	174.8	201.9	211.7
105.9	15°	123.1	130.5	130.5	128.0	128.0	130.5	147.7	172.3	209.3	226.5
91.1	17.5°	113.2	120.6	123.1	118.2	118.2	123.1	140.3	172.3	214.2	243.7
73.9	20°	93.6	105.9	113.2	105.9	105.9	110.8	128.0	162.5	216.6	261.0
54.2	22.5°	73.9	86.2	96.0	93.6	93.6	96.0	118.2	155.1	219.1	290.5
32.0	25°	54.2	66.5	73.9	78.8	78.8	86.2	108.3	150.2	229.0	352.0
14.8	27.5°	32.0	46.8	56.6	61.5	64.0	73.9	100.9	145.3	246.2	440.7
0.0	30°	14.8	27.1	39.4	49.2	49.2	66.5	93.6	140.3	268.3	568.7
0.0	32.5°	0.0	12.3	19.7	34.5	36.9	54.2	86.2	135.4	300.3	691.8
0.0	35°	0.0	0.0	9.8	27.1	27.1	44.3	78.8	130.5	349.6	785.3
0.0	37.5°	0.0	0.0	0.0	19.7	22.2	39.4	76.3	128.0	359.4	792.7
0.0	40°	0.0	0.0	0.0	14.8	17.2	36.9	76.3	130.5	325.0	775.5
0.0	42.5°	0.0	0.0	0.0	9.8	12.3	36.9	76.3	135.4	293.0	795.2
0.0	45°	0.0	0.0	0.0	7.4	9.8	39.4	73.9	132.9	275.7	898.6
0.0	47.5°	0.0	0.0	0.0	9.8	14.8	39.4	71.4	130.5	278.2	1240.8
0.0	50°	0.0	0.0	0.0	12.3	17.2	39.4	73.9	125.6	305.3	1907.9
0.0	52.5°	0.0	0.0	0.0	9.8	14.8	44.3	81.2	123.1	332.4	2481.6
0.0	55°	0.0	0.0	0.0	2.5	7.4	56.6	88.6	123.1	374.2	2624.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	64.0	100.9	130.5	443.1	2567.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	64.0	103.4	130.5	448.1	2518.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	64.0	113.2	145.3	482.5	2242.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	54.2	135.4	182.2	502.2	1762.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	44.3	160.0	199.4	517.0	1403.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	41.9	164.9	201.9	524.4	1117.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	44.3	162.5	216.6	549.0	908.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	49.2	147.7	238.8	549.0	805.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	51.7	137.9	268.3	499.8	696.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	49.2	135.4	312.7	445.6	573.6
0.0	80°	4.9	7.4	7.4	4.9	4.9	41.9	132.9	317.6	379.1	393.9
2.5	82.5°	14.8	19.7	17.2	12.3	12.3	36.9	118.2	265.9	196.9	169.9
14.8	85°	27.1	32.0	32.0	27.1	27.1	34.5	73.9	96.0	66.5	54.2
27.1	87.5°	36.9	41.9	41.9	36.9	36.9	34.5	32.0	29.5	27.1	27.1
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

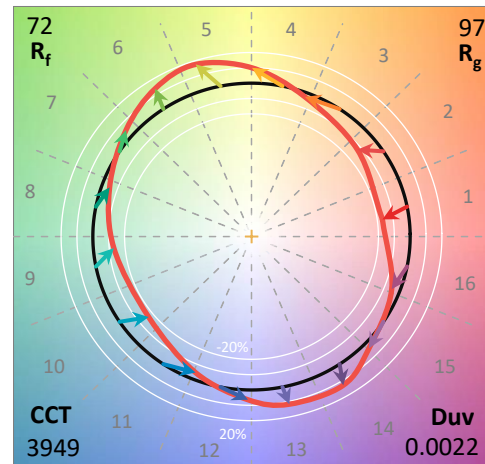
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

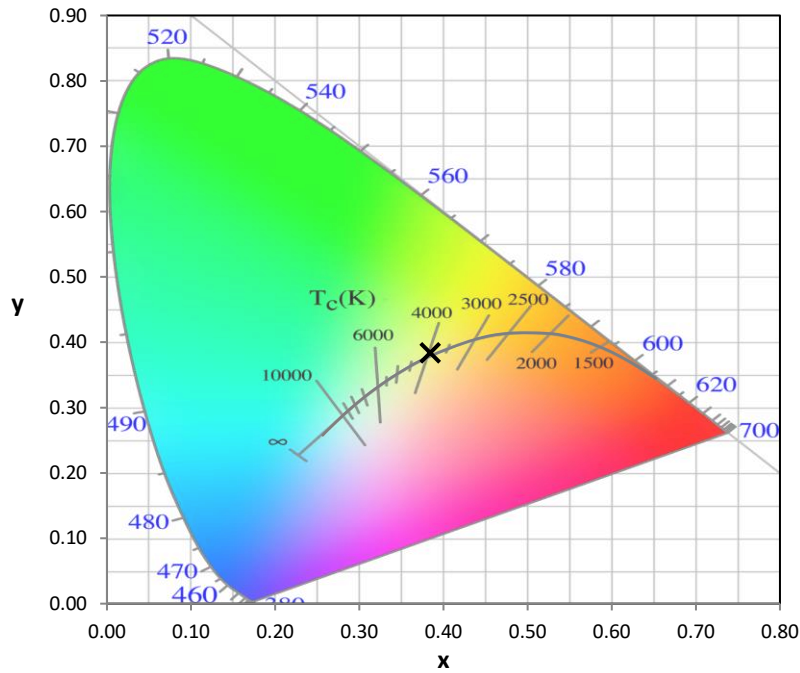
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

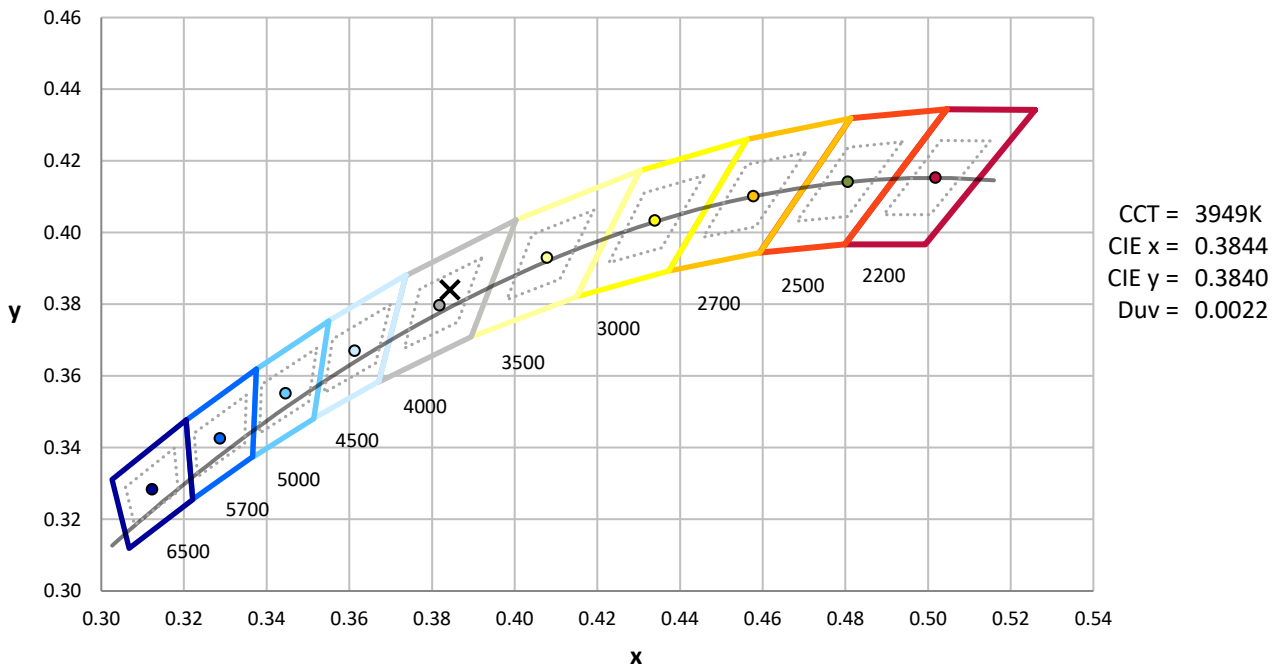
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



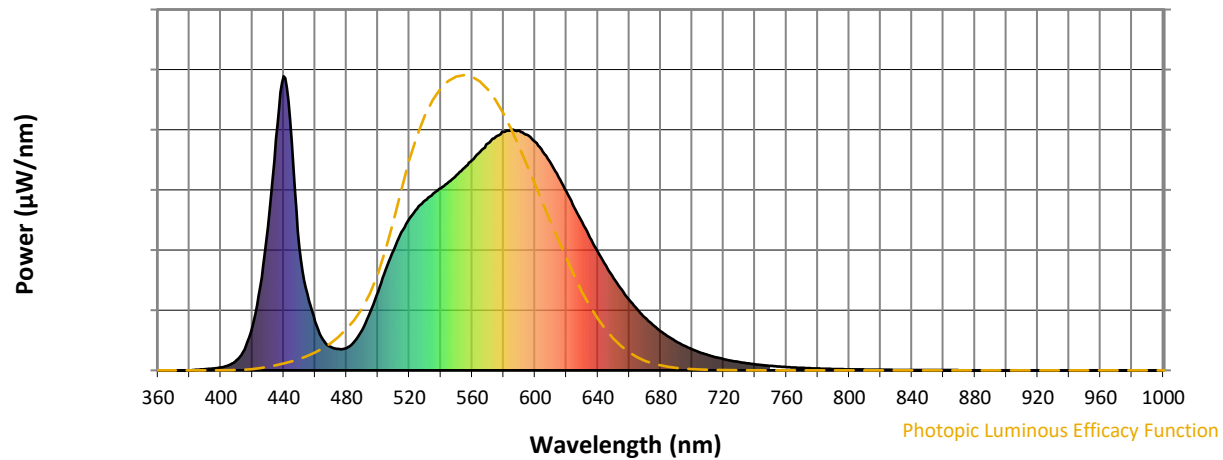
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

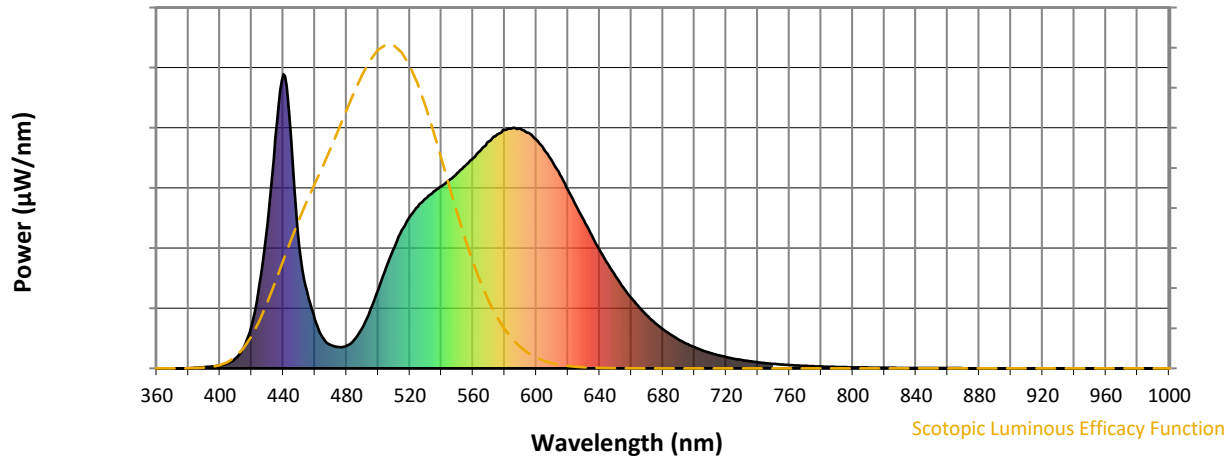


Photopic Lumens: NR

λ (nm)	Power W ^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

Scotopic Flux vs. Wavelength



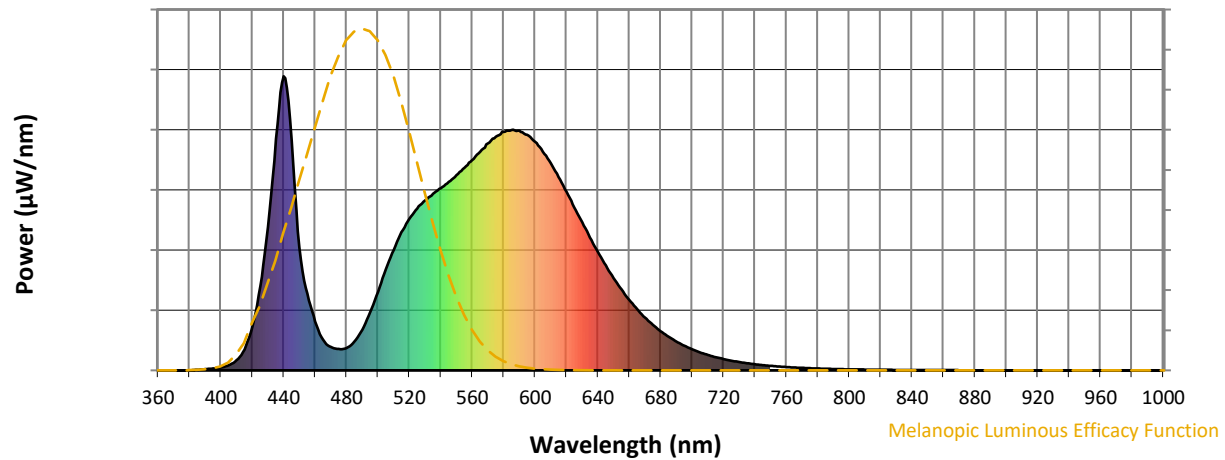
Scotopic Lumens: NR

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

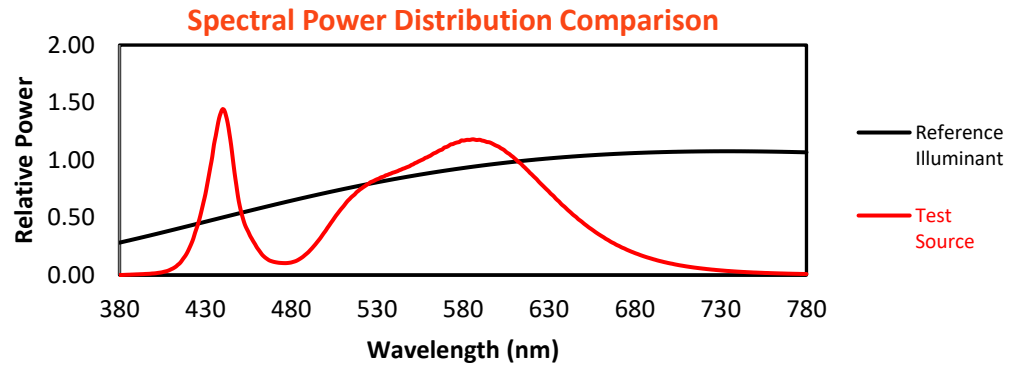
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267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

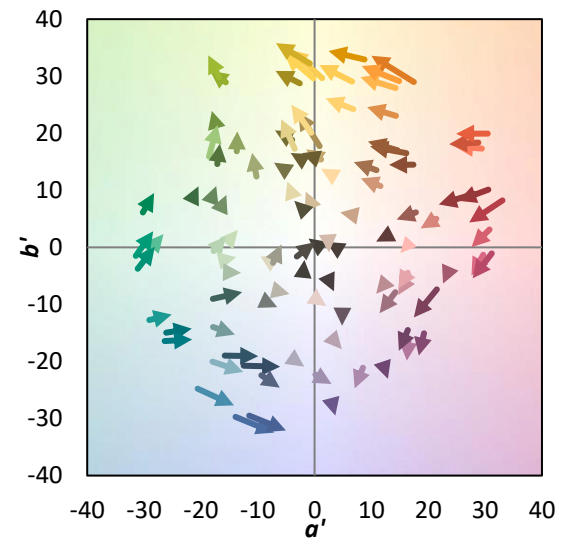
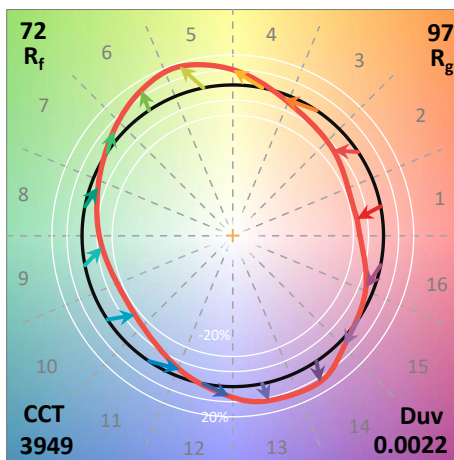
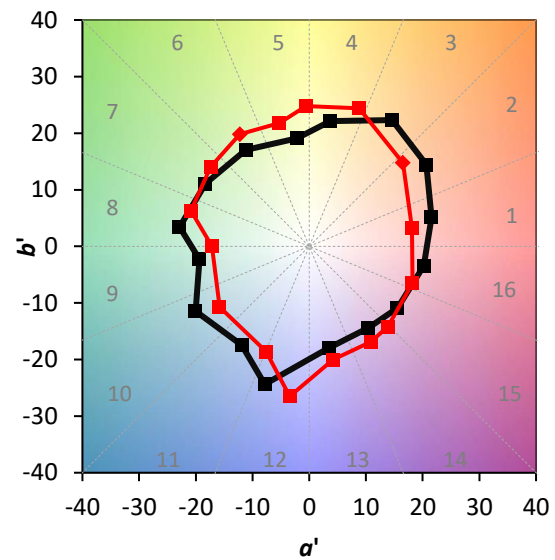
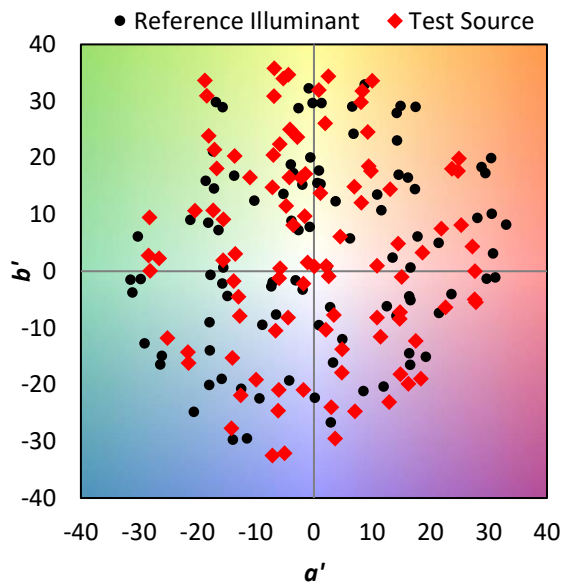
TM-30-18

Summary

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

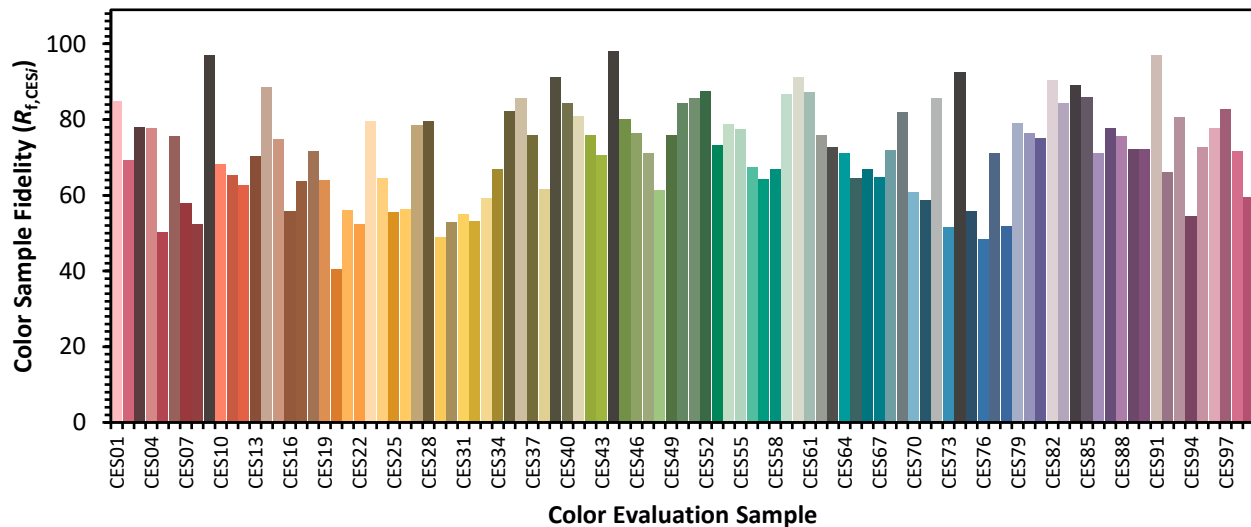


Color Vector Graphics

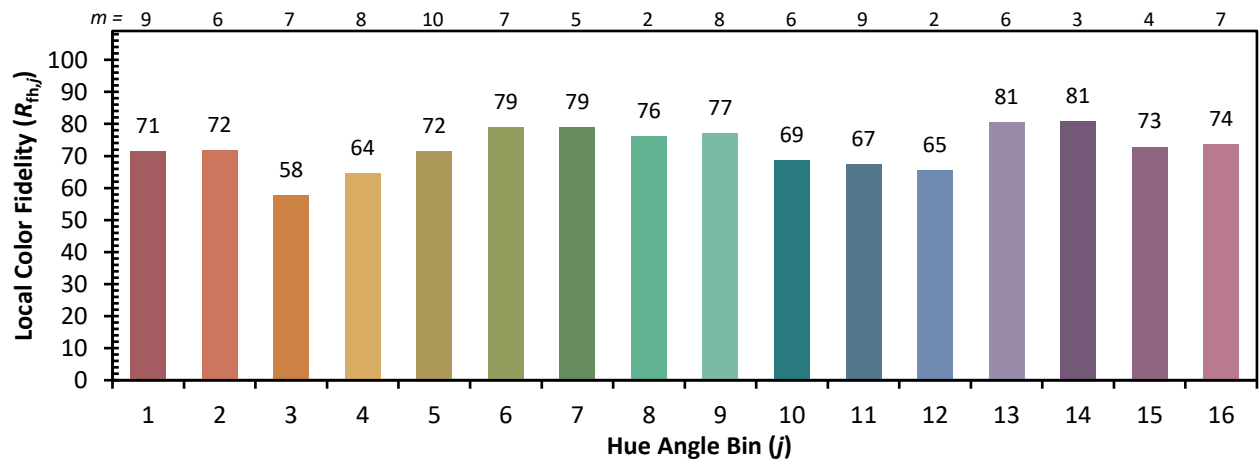
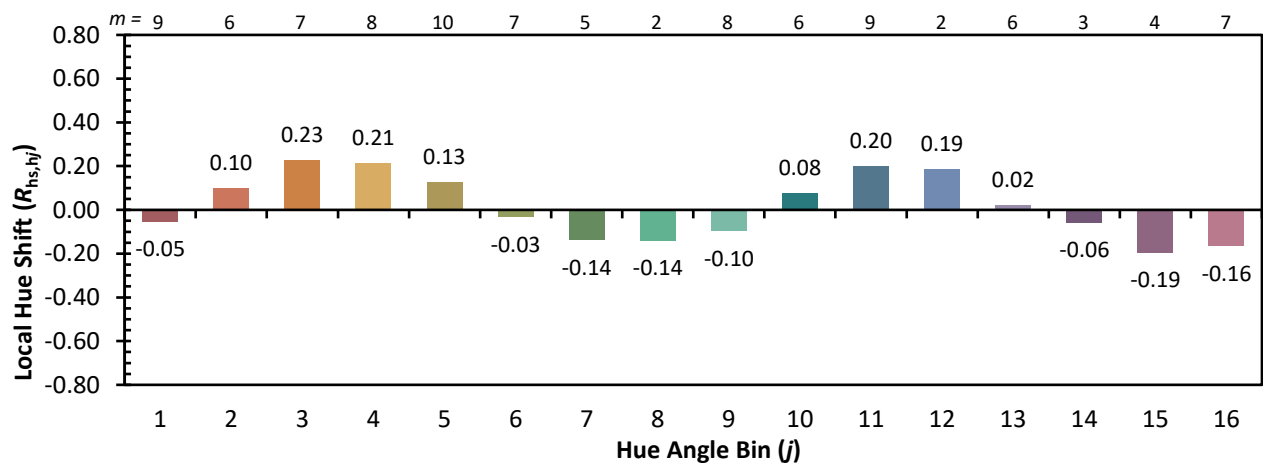
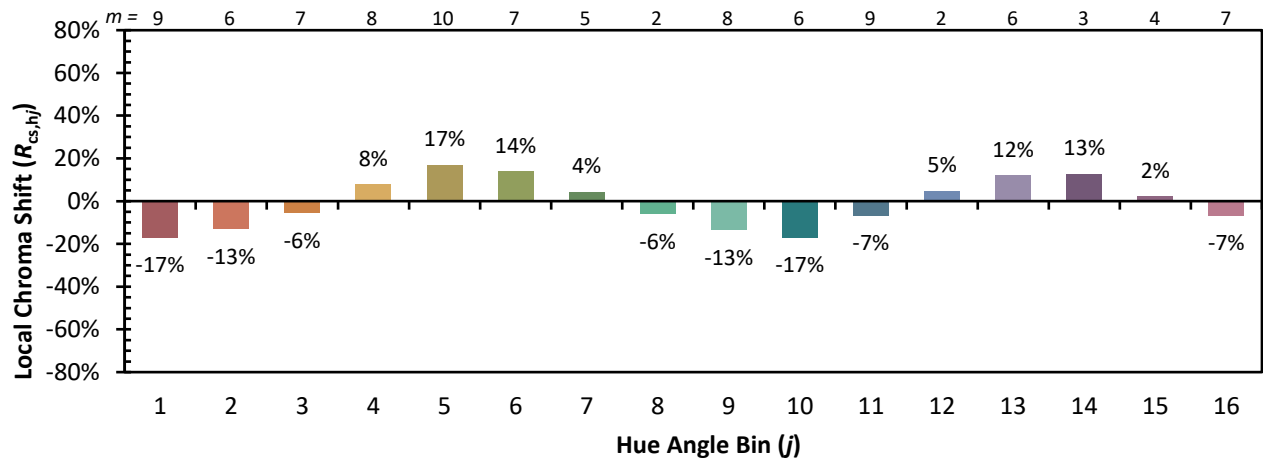


Individual Sample Fidelity Index ($R_{f,i}$)

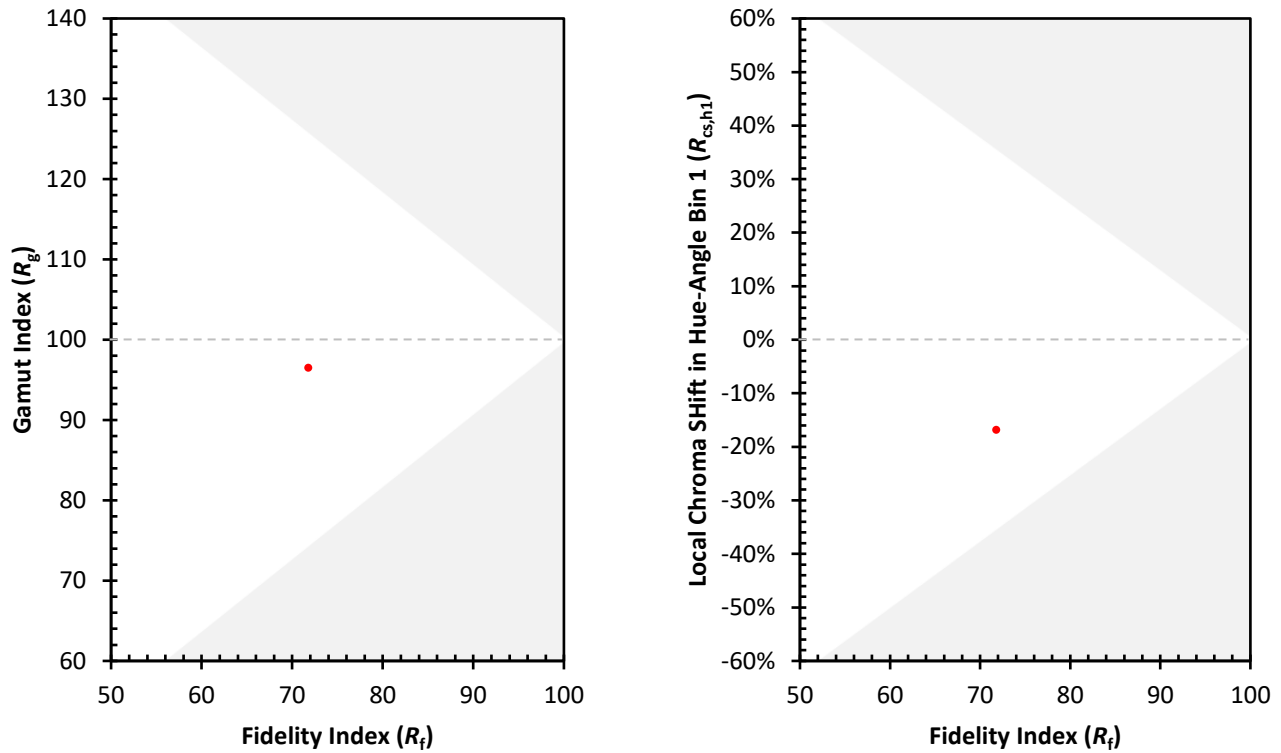
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82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