

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: P1049483

Luminaire Tested: **GALN-SA6C-740-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049483
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30255.4 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 282.5
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

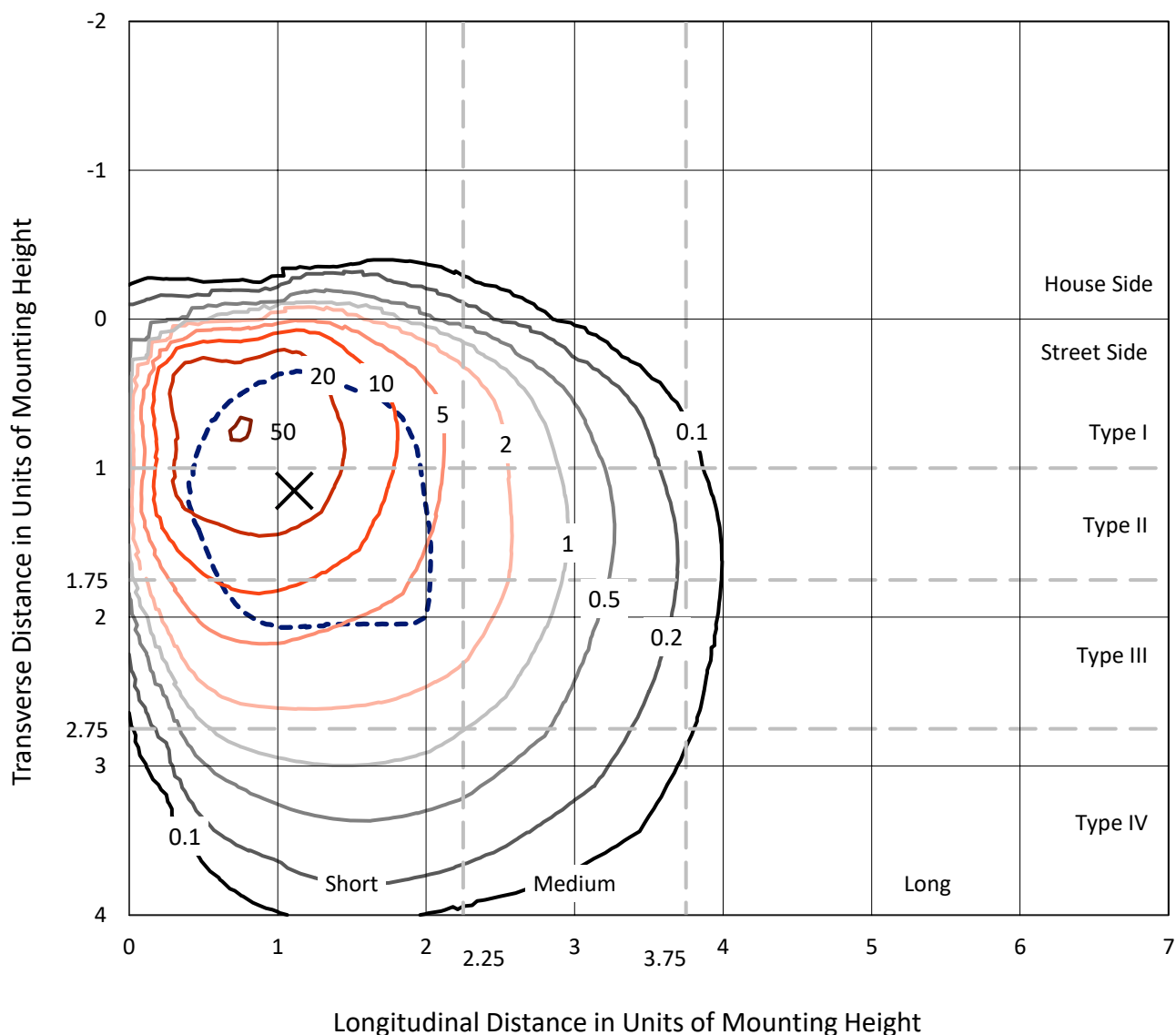
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

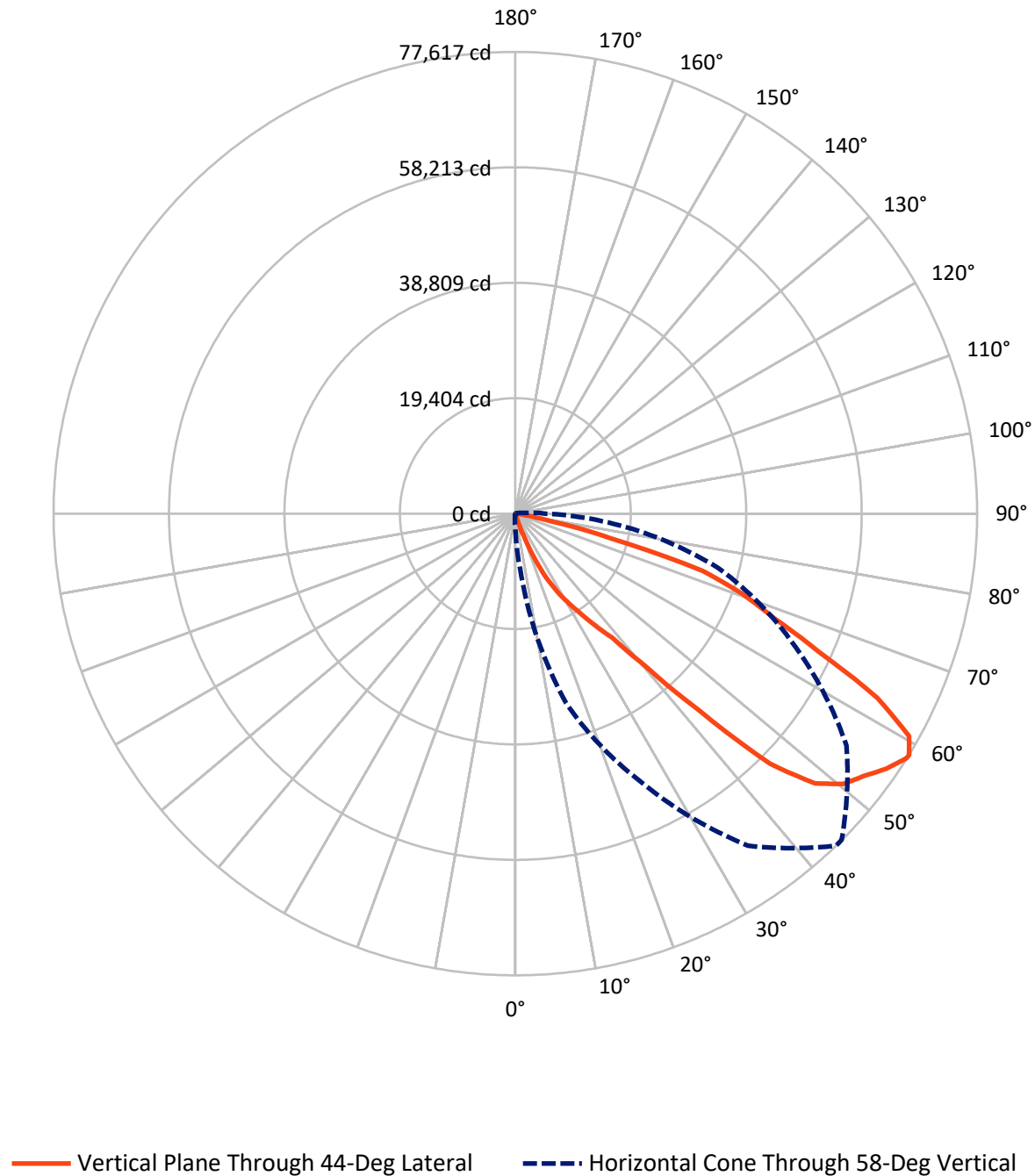


Based on 20 foot mounting height. Maximum calculated value = 52.7 fc

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	206.6	0.0	206.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	30048.8	0.0	30048.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	30255.4	0.0	30255.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	0.0
10°-20°	66.4	0.2
20°-30°	716.8	2.4
30°-40°	2119.7	7.0
40°-50°	6317.8	20.9
50°-60°	10024.8	33.1
60°-70°	8361.9	27.6
70°-80°	2578.9	8.5
80°-90°	57.3	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°	30255.4	100.0
0°-180°	30255.4	100.0



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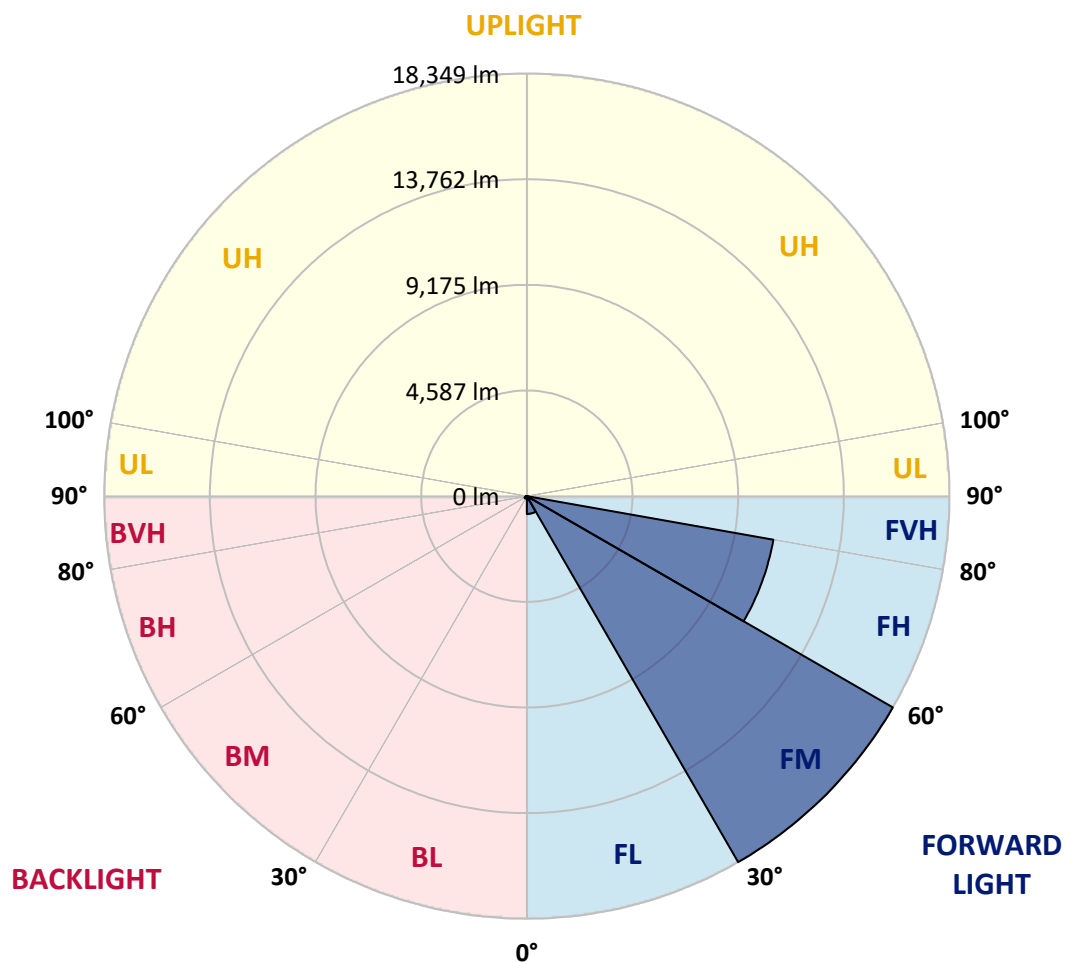
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	774.7	2.6			
FM	(30°-60°)	18349.3	60.6			
FH	(60°-80°)	10870.3	35.9			G4/12000
FVH	(80°-90°)	54.5	0.2			G1/100
BL	(0°-30°)	20.2	0.1	B0/110		
BM	(30°-60°)	113.1	0.4	B0/220		
BH	(60°-80°)	70.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.8	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°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6
2.5°	171.4	171.4	164.6	155.4	146.3	137.1	134.8	130.3	128.0	125.7
5°	178.3	178.3	176.0	169.1	160.0	153.1	153.1	146.3	141.7	137.1
7.5°	182.8	185.1	189.7	187.4	182.8	176.0	176.0	171.4	164.6	153.1
10°	189.7	196.6	205.7	210.3	212.6	212.6	210.3	208.0	196.6	180.6
12.5°	196.6	210.3	233.1	256.0	269.7	288.0	285.7	281.1	251.4	217.1
15°	210.3	230.8	278.8	345.1	448.0	512.0	537.1	514.2	416.0	292.5
17.5°	226.3	260.6	404.5	722.2	1183.9	1403.3	1535.9	1428.5	946.2	555.4
20°	242.3	317.7	751.9	1871.9	3071.8	3789.4	3988.3	3677.4	2361.0	1058.2
22.5°	269.7	445.7	1524.5	3869.4	6618.9	7695.4	7898.8	6904.6	4459.1	2089.0
25°	326.8	646.8	2628.4	6305.8	9878.1	11695.1	11610.5	10307.8	7233.7	3336.9
27.5°	409.1	941.6	3974.6	8959.3	13000.2	14602.3	14794.3	13183.0	9642.7	4907.1
30°	528.0	1305.0	5419.0	11084.9	15502.8	17235.3	17267.3	15601.1	11798.0	6285.2
32.5°	642.2	1647.9	6682.9	13139.6	17968.9	19868.2	20009.9	17959.8	13407.0	7720.6
35°	729.1	1871.9	7962.8	14945.2	20455.6	23072.5	23063.4	20629.3	15313.1	9002.7
37.5°	735.9	2095.8	9121.6	16791.9	23605.1	26535.1	26825.4	24142.2	17616.9	10588.9
40°	719.9	2347.3	10588.9	19671.7	29280.1	33775.7	34031.7	30649.1	22238.3	13304.1
42.5°	738.2	2783.8	12970.4	24990.1	38703.3	45160.0	45653.7	42097.4	30733.7	18844.3
45°	834.2	3604.3	17959.8	33887.7	52135.5	60006.9	59842.3	54720.4	40618.6	27277.9
47.5°	1151.9	5613.3	25355.8	42547.6	60720.0	67729.7	67871.4	61611.3	46387.3	33762.0
50°	1771.3	8589.1	31570.2	47125.6	64411.1	71443.7	71311.2	64077.4	48579.2	36954.9
52.5°	2303.8	10742.0	34687.7	48732.3	64884.2	73279.0	73269.9	64726.5	48919.7	37229.2
55°	2436.4	10904.3	34712.8	48819.2	65944.7	75681.1	75982.8	66324.1	49360.8	36031.6
57.5°	2383.8	9654.1	33263.8	49322.0	67832.6	77539.3	77555.3	67871.4	50480.7	35297.9
58°	2338.1	9457.6	32971.2	49607.7	68157.1	77617.0	77578.1	67942.3	51392.7	35270.5
60°	2082.1	8211.9	31830.7	50336.8	67674.9	76021.7	75658.3	66395.0	51257.8	34989.3
62.5°	1636.4	6406.4	30708.5	49493.4	62505.0	68298.8	68449.7	58781.8	46727.9	33350.6
65°	1302.8	4774.5	28368.1	43413.8	51470.4	56087.2	56649.4	47799.8	39002.8	28240.1
67.5°	1037.6	3451.2	23797.1	34564.2	40728.3	46810.2	47219.3	40131.8	30217.1	21637.2
70°	843.4	2333.5	16426.2	25278.1	33592.9	40431.2	40456.4	33339.2	22553.7	14177.2
72.5°	747.4	1615.9	9535.3	18435.2	27239.1	32946.1	32281.0	27053.9	17333.5	8397.1
75°	646.8	1071.9	4676.2	11270.0	16515.3	16627.3	16881.0	12549.9	8664.5	3992.8
77.5°	532.5	761.1	1842.1	3078.6	4952.8	6340.1	6575.5	4982.5	2882.1	982.8
80°	365.7	361.1	496.0	943.9	1417.0	1775.9	1657.0	1282.2	754.2	377.1
82.5°	157.7	171.4	224.0	269.7	219.4	212.6	203.4	130.3	100.6	77.7
85°	50.3	45.7	48.0	48.0	38.9	29.7	29.7	13.7	0.0	0.0
87.5°	25.1	20.6	20.6	18.3	11.4	4.6	2.3	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°
132.6	0°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6
123.4	2.5°	121.1	121.1	116.6	112.0	109.7	105.1	102.8	100.6	98.3	96.0
132.6	5°	128.0	125.7	118.8	112.0	105.1	98.3	93.7	89.1	84.6	82.3
146.3	7.5°	139.4	134.8	121.1	109.7	100.6	91.4	86.9	80.0	75.4	68.6
162.3	10°	153.1	144.0	125.7	112.0	98.3	86.9	80.0	73.1	66.3	57.1
185.1	12.5°	171.4	155.4	132.6	109.7	93.7	80.0	73.1	64.0	57.1	50.3
214.8	15°	187.4	166.8	134.8	109.7	89.1	73.1	64.0	54.9	48.0	38.9
269.7	17.5°	210.3	176.0	132.6	102.8	82.3	64.0	54.9	48.0	36.6	22.9
400.0	20°	249.1	182.8	128.0	96.0	70.9	52.6	41.1	32.0	16.0	4.6
601.1	22.5°	310.8	201.1	123.4	86.9	61.7	41.1	27.4	11.4	0.0	0.0
914.2	25°	429.7	233.1	123.4	82.3	54.9	29.7	9.1	0.0	0.0	0.0
1298.2	27.5°	571.4	276.6	123.4	70.9	43.4	16.0	0.0	0.0	0.0	0.0
1769.0	30°	715.4	324.5	123.4	61.7	34.3	2.3	0.0	0.0	0.0	0.0
2178.1	32.5°	852.5	365.7	125.7	52.6	22.9	0.0	0.0	0.0	0.0	0.0
2744.9	35°	991.9	372.5	123.4	45.7	13.7	0.0	0.0	0.0	0.0	0.0
3439.7	37.5°	1170.2	358.8	116.6	41.1	6.9	0.0	0.0	0.0	0.0	0.0
4525.4	40°	1439.9	365.7	109.7	38.9	2.3	0.0	0.0	0.0	0.0	0.0
6461.2	42.5°	1938.1	395.4	100.6	38.9	0.0	0.0	0.0	0.0	0.0	0.0
10291.8	45°	3350.6	530.2	91.4	41.1	0.0	0.0	0.0	0.0	0.0	0.0
15450.3	47.5°	5542.4	953.1	89.1	41.1	0.0	0.0	0.0	0.0	0.0	0.0
18611.2	50°	7073.7	1199.9	93.7	43.4	0.0	0.0	0.0	0.0	0.0	0.0
19006.6	52.5°	7062.3	1337.0	98.3	45.7	9.1	0.0	0.0	0.0	0.0	0.0
17518.7	55°	6278.4	1362.2	105.1	50.3	29.7	0.0	0.0	0.0	0.0	0.0
15054.9	57.5°	5247.6	1243.3	121.1	61.7	54.9	0.0	0.0	0.0	0.0	0.0
14668.6	58°	5064.8	1188.5	125.7	64.0	59.4	0.0	0.0	0.0	0.0	0.0
12723.6	60°	4150.5	969.1	160.0	80.0	80.0	0.0	0.0	0.0	0.0	0.0
10431.2	62.5°	2866.1	845.7	182.8	102.8	82.3	0.0	0.0	0.0	0.0	0.0
7690.8	65°	2027.3	763.4	198.8	109.7	66.3	0.0	0.0	0.0	0.0	0.0
5464.7	67.5°	1515.3	703.9	219.4	112.0	34.3	0.0	0.0	0.0	0.0	0.0
3428.3	70°	1161.1	660.5	269.7	118.8	9.1	0.0	0.0	0.0	0.0	0.0
2043.3	72.5°	946.2	610.2	326.8	123.4	0.0	0.0	0.0	0.0	0.0	0.0
1225.0	75°	783.9	550.8	315.4	134.8	0.0	0.0	0.0	0.0	0.0	0.0
653.7	77.5°	521.1	427.4	288.0	134.8	0.0	0.0	0.0	0.0	0.0	0.0
233.1	80°	182.8	169.1	224.0	118.8	0.0	0.0	0.0	0.0	0.0	0.0
48.0	82.5°	27.4	22.9	32.0	41.1	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°
132.6	0°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6
93.7	2.5°	93.7	93.7	91.4	93.7	93.7	98.3	109.7	125.7	144.0	150.8
80.0	5°	77.7	75.4	73.1	73.1	73.1	80.0	89.1	107.4	128.0	137.1
66.3	7.5°	64.0	61.7	59.4	57.1	57.1	61.7	73.1	93.7	114.3	123.4
54.9	10°	52.6	48.0	45.7	43.4	43.4	48.0	59.4	80.0	102.8	112.0
45.7	12.5°	43.4	36.6	32.0	29.7	27.4	34.3	45.7	64.0	89.1	100.6
34.3	15°	29.7	22.9	16.0	13.7	11.4	18.3	29.7	50.3	75.4	89.1
18.3	17.5°	16.0	6.9	2.3	0.0	0.0	4.6	13.7	36.6	61.7	73.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	45.7	57.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	27.4	38.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	20.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
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	6.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	18.3
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°
132.6	0°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6	132.6
157.7	2.5°	162.3	160.0	155.4	150.8	150.8	150.8	157.7	164.6	171.4	171.4
141.7	5°	150.8	150.8	148.6	144.0	144.0	146.3	155.4	166.8	176.0	178.3
130.3	7.5°	139.4	144.0	139.4	137.1	139.4	141.7	150.8	164.6	178.3	182.8
121.1	10°	132.6	134.8	134.8	132.6	132.6	137.1	146.3	164.6	182.8	189.7
109.7	12.5°	123.4	128.0	125.7	125.7	125.7	130.3	141.7	162.3	187.4	196.6
98.3	15°	114.3	121.1	121.1	118.8	118.8	121.1	137.1	160.0	194.3	210.3
84.6	17.5°	105.1	112.0	114.3	109.7	109.7	114.3	130.3	160.0	198.8	226.3
68.6	20°	86.9	98.3	105.1	98.3	98.3	102.8	118.8	150.8	201.1	242.3
50.3	22.5°	68.6	80.0	89.1	86.9	86.9	89.1	109.7	144.0	203.4	269.7
29.7	25°	50.3	61.7	68.6	73.1	73.1	80.0	100.6	139.4	212.6	326.8
13.7	27.5°	29.7	43.4	52.6	57.1	59.4	68.6	93.7	134.8	228.6	409.1
0.0	30°	13.7	25.1	36.6	45.7	45.7	61.7	86.9	130.3	249.1	528.0
0.0	32.5°	0.0	11.4	18.3	32.0	34.3	50.3	80.0	125.7	278.8	642.2
0.0	35°	0.0	0.0	9.1	25.1	25.1	41.1	73.1	121.1	324.5	729.1
0.0	37.5°	0.0	0.0	0.0	18.3	20.6	36.6	70.9	118.8	333.7	735.9
0.0	40°	0.0	0.0	0.0	13.7	16.0	34.3	70.9	121.1	301.7	719.9
0.0	42.5°	0.0	0.0	0.0	9.1	11.4	34.3	70.9	125.7	272.0	738.2
0.0	45°	0.0	0.0	0.0	6.9	9.1	36.6	68.6	123.4	256.0	834.2
0.0	47.5°	0.0	0.0	0.0	9.1	13.7	36.6	66.3	121.1	258.3	1151.9
0.0	50°	0.0	0.0	0.0	11.4	16.0	36.6	68.6	116.6	283.4	1771.3
0.0	52.5°	0.0	0.0	0.0	9.1	13.7	41.1	75.4	114.3	308.5	2303.8
0.0	55°	0.0	0.0	0.0	2.3	6.9	52.6	82.3	114.3	347.4	2436.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	59.4	93.7	121.1	411.4	2383.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	59.4	96.0	121.1	416.0	2338.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	59.4	105.1	134.8	448.0	2082.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	50.3	125.7	169.1	466.3	1636.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	41.1	148.6	185.1	480.0	1302.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	38.9	153.1	187.4	486.8	1037.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	41.1	150.8	201.1	509.7	843.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	45.7	137.1	221.7	509.7	747.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	48.0	128.0	249.1	464.0	646.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	45.7	125.7	290.3	413.7	532.5
0.0	80°	4.6	6.9	6.9	4.6	4.6	38.9	123.4	294.8	352.0	365.7
2.3	82.5°	13.7	18.3	16.0	11.4	11.4	34.3	109.7	246.8	182.8	157.7
13.7	85°	25.1	29.7	29.7	25.1	25.1	32.0	68.6	89.1	61.7	50.3
25.1	87.5°	34.3	38.9	38.9	34.3	34.3	32.0	29.7	27.4	25.1	25.1
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

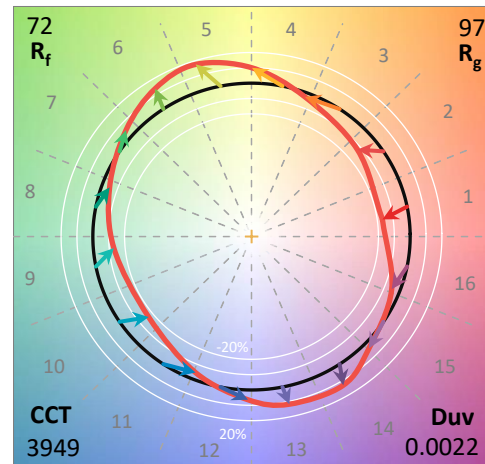
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

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

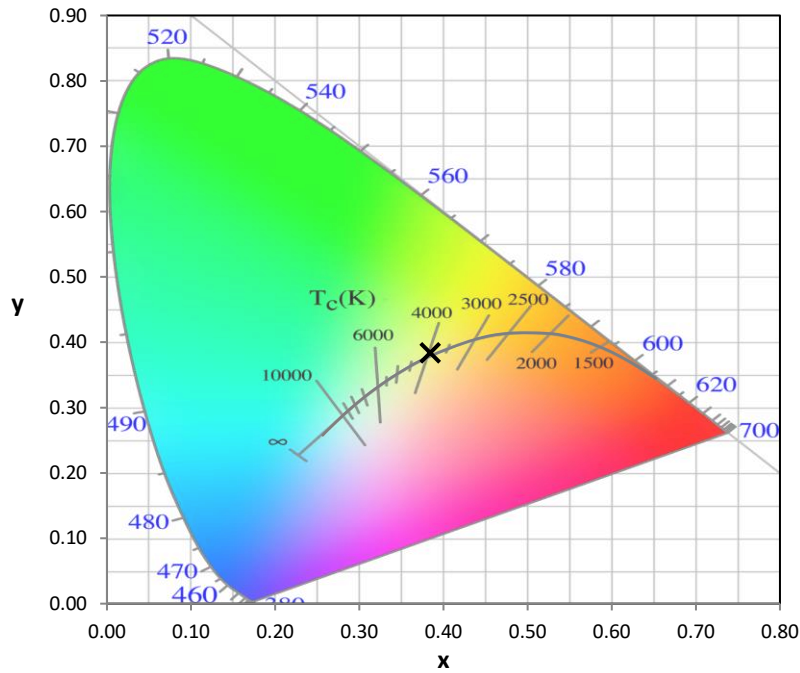
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

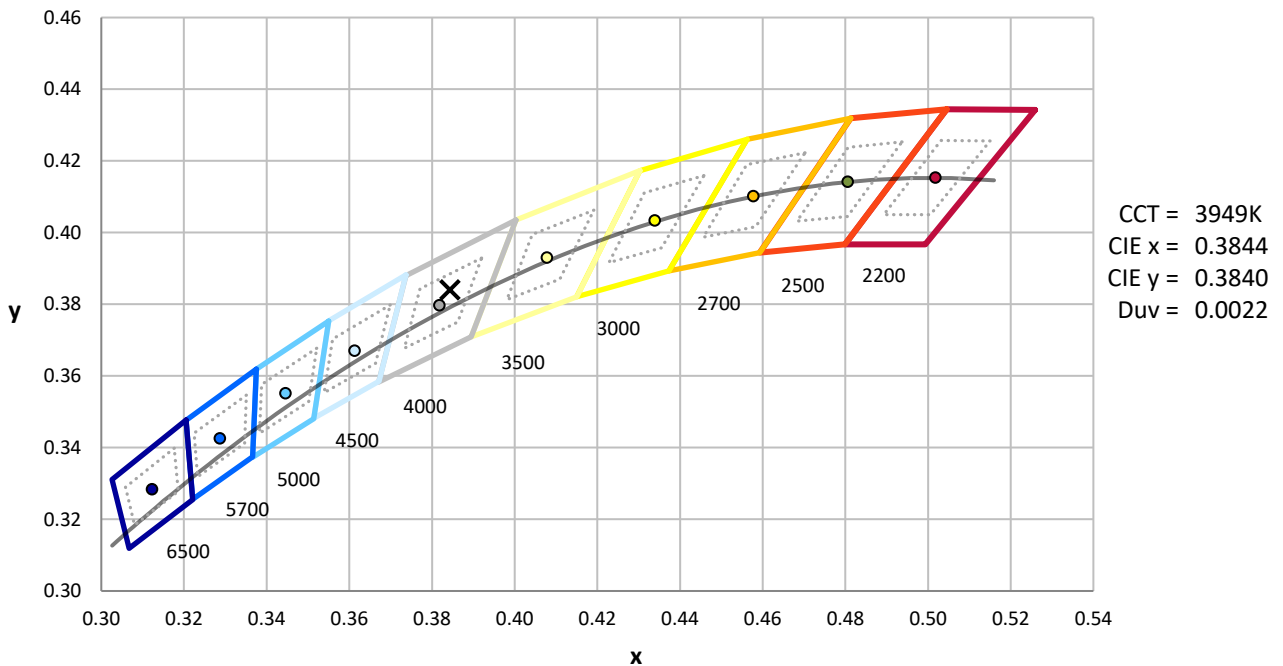
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



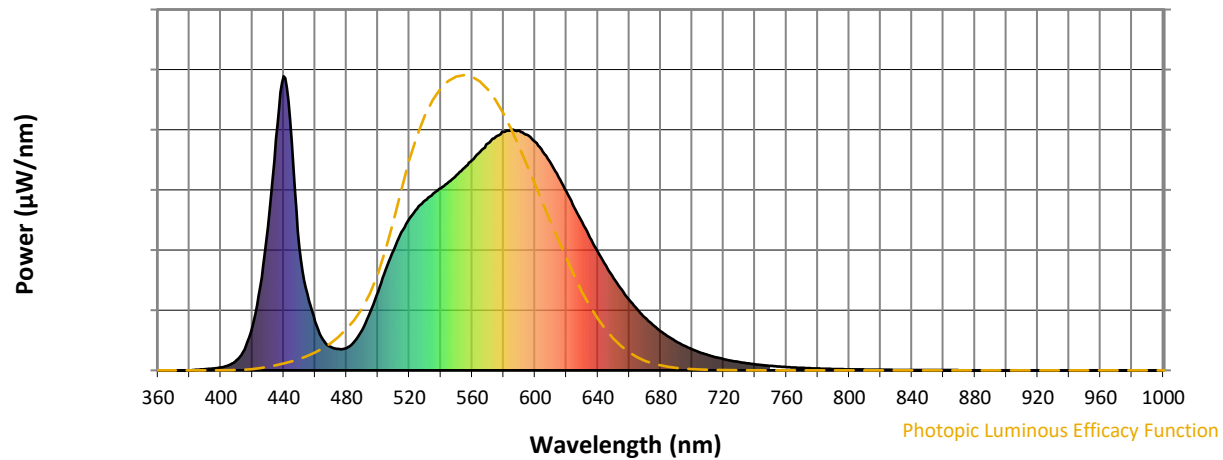
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

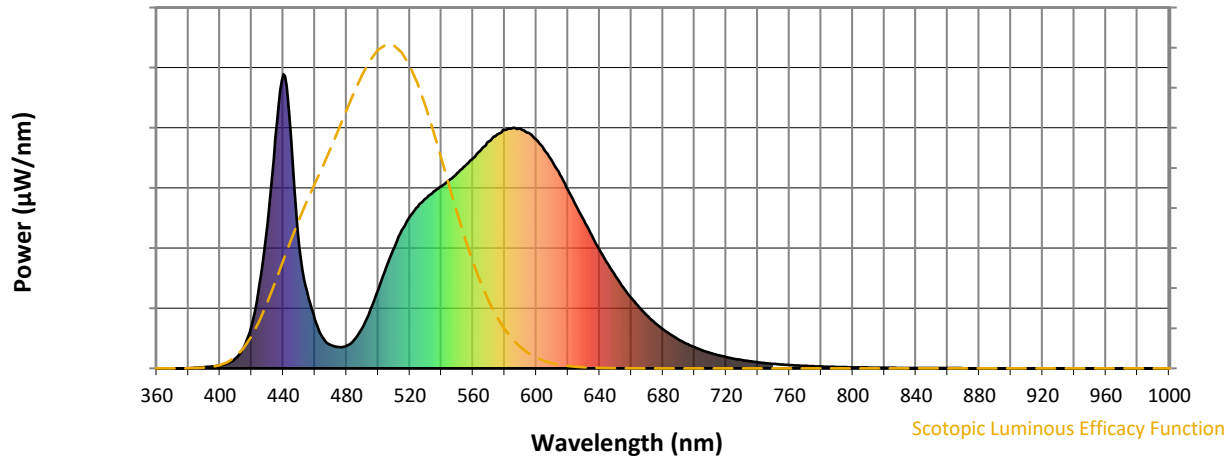


Photopic Lumens: NR

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



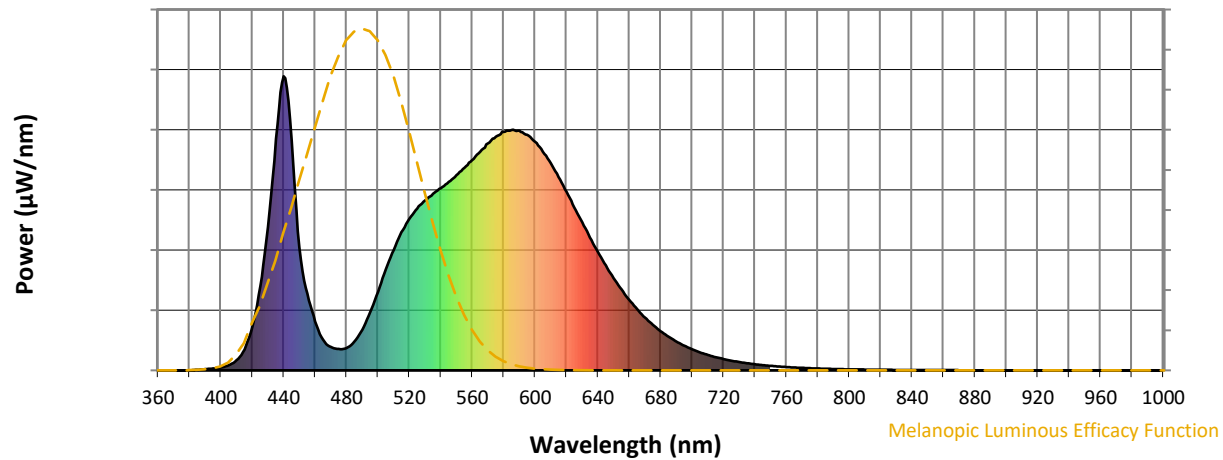
Scotopic Lumens: NR

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

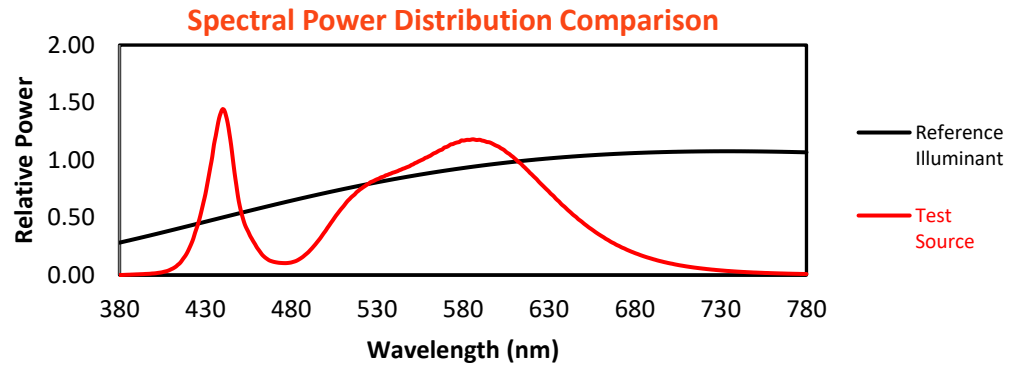
λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630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

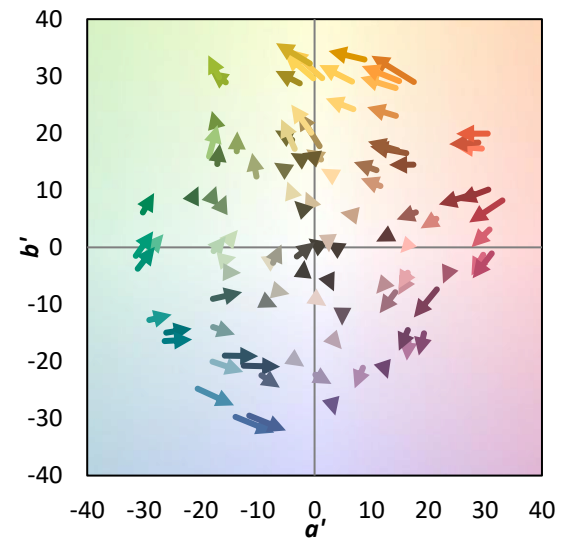
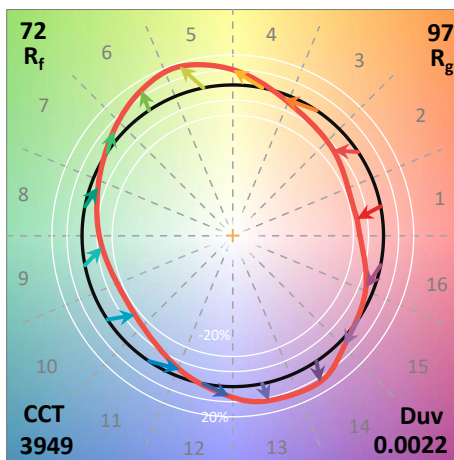
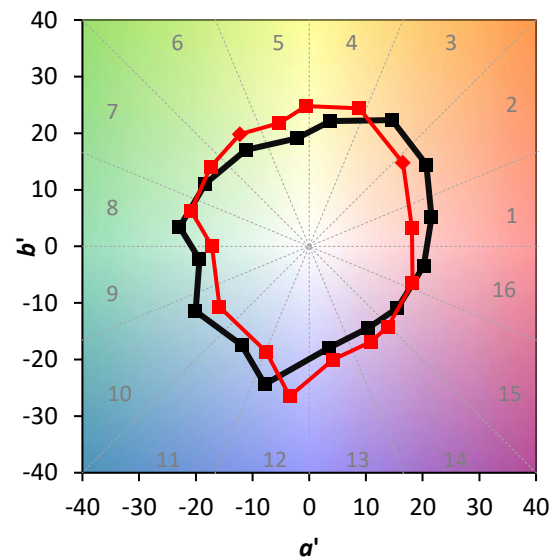
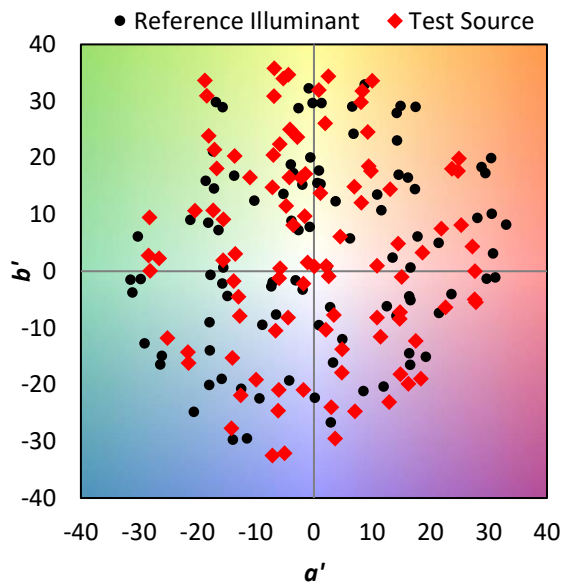
TM-30-18

Summary

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

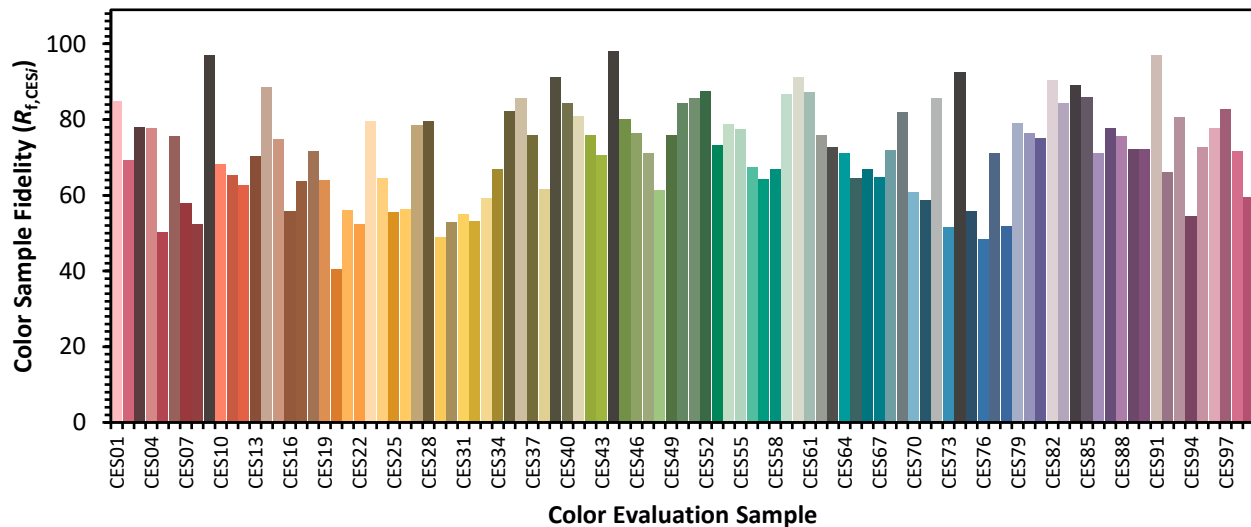


Color Vector Graphics

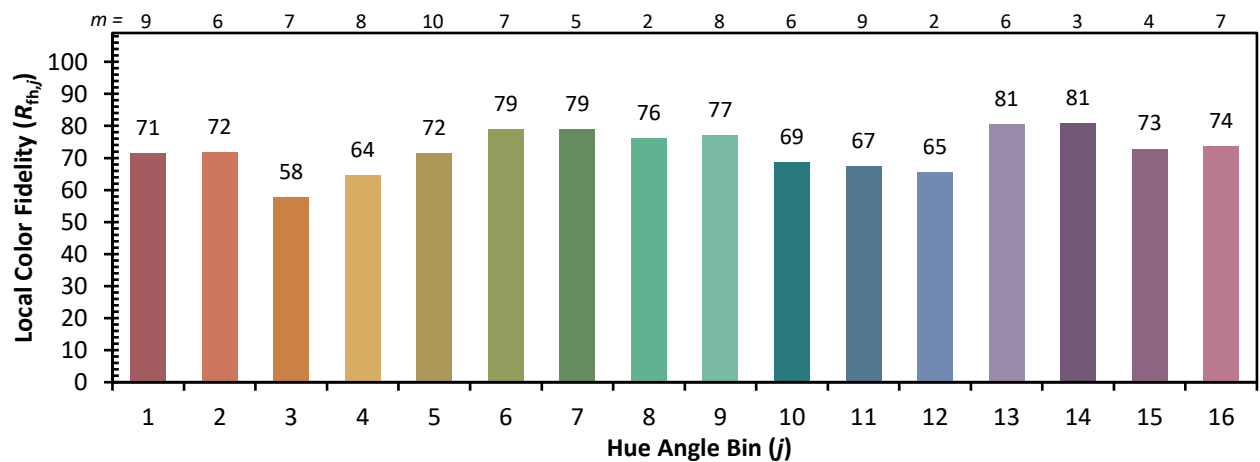
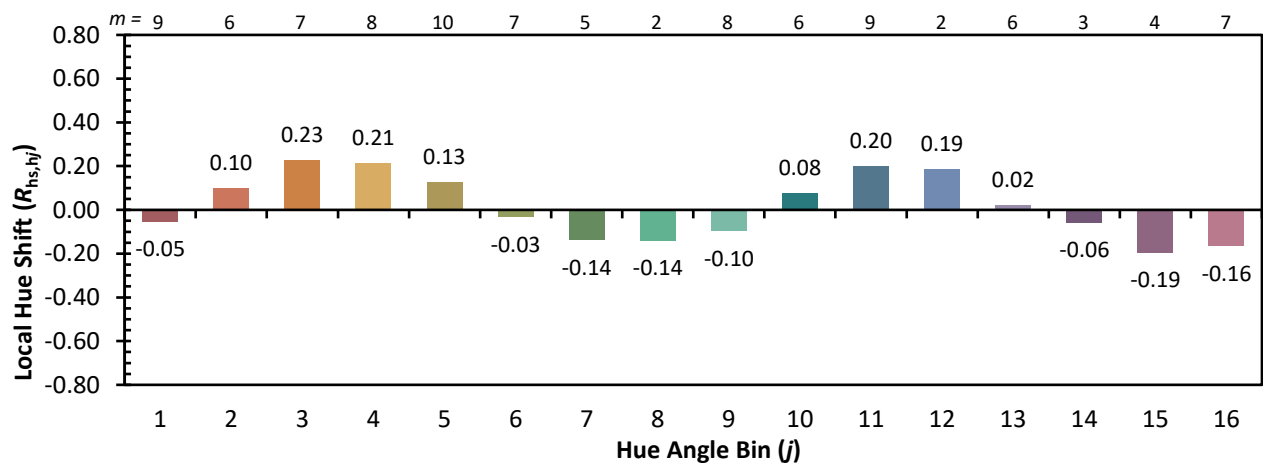
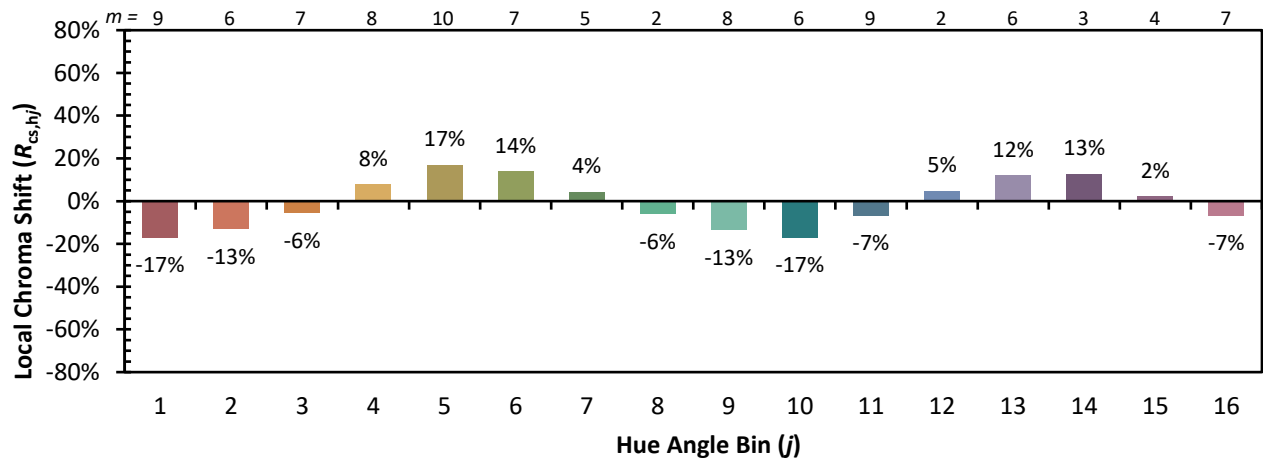


Individual Sample Fidelity Index ($R_{f,i}$)

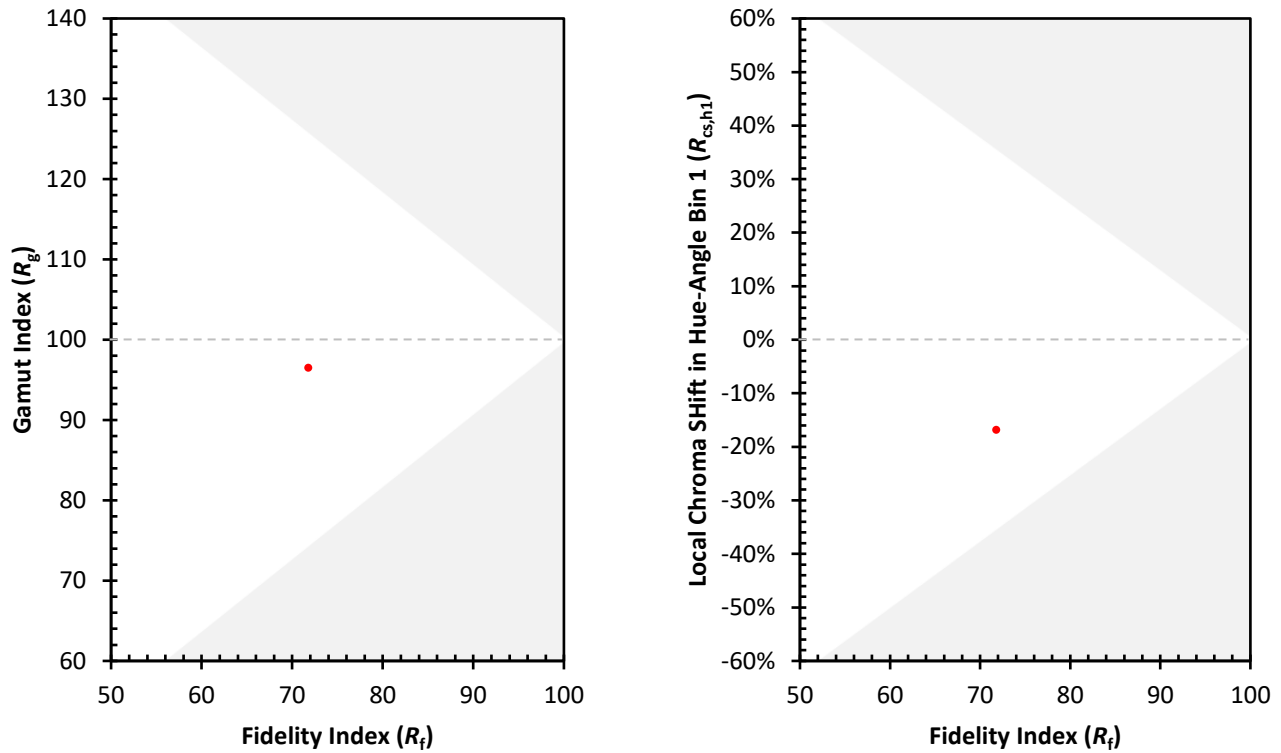
CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82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