

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: P1049618

Luminaire Tested: **GALN-SA4B-735-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049618
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16171.1 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 144.1
Input Voltage (V): 120
Input Current (A_{in}): 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

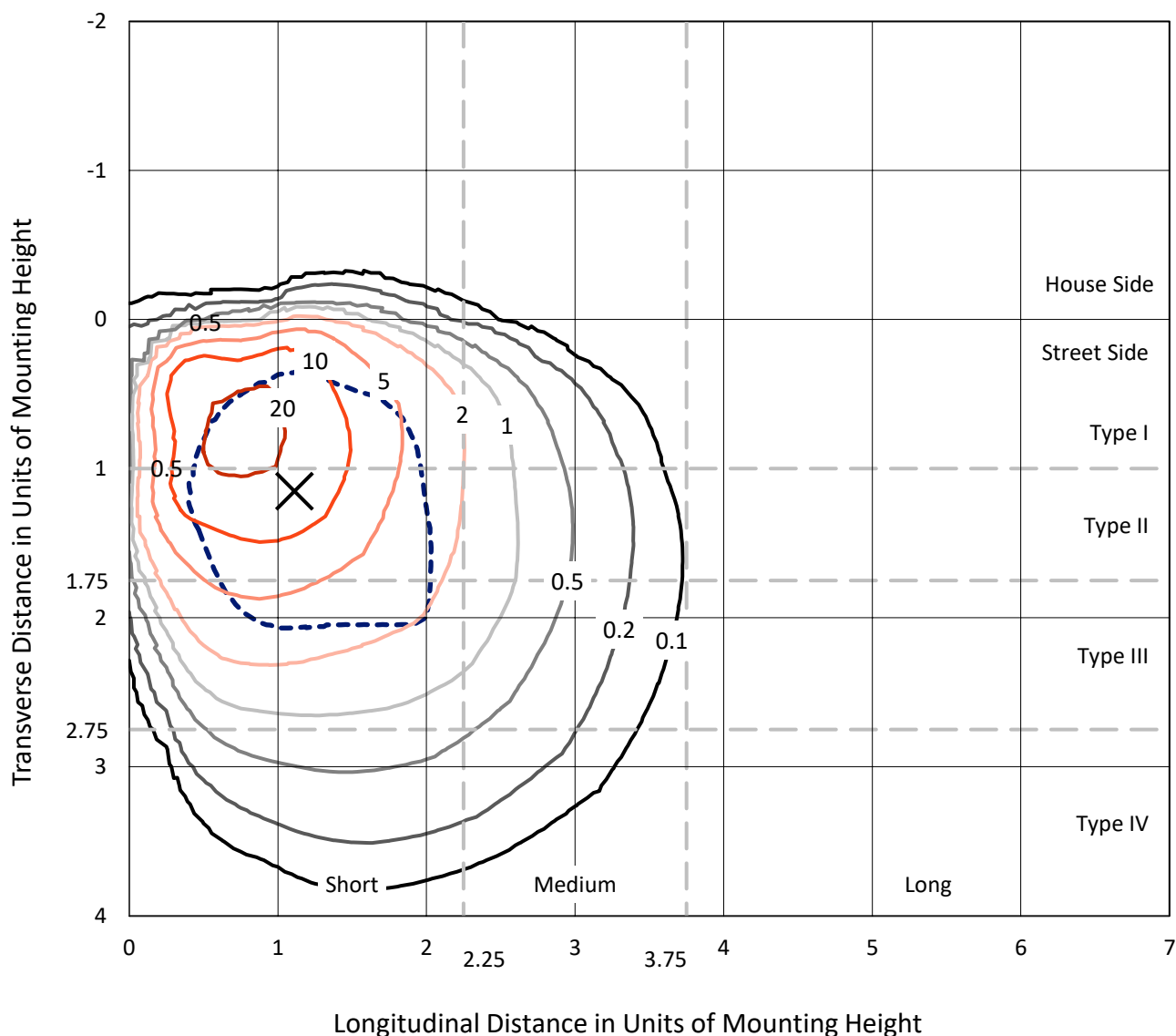
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

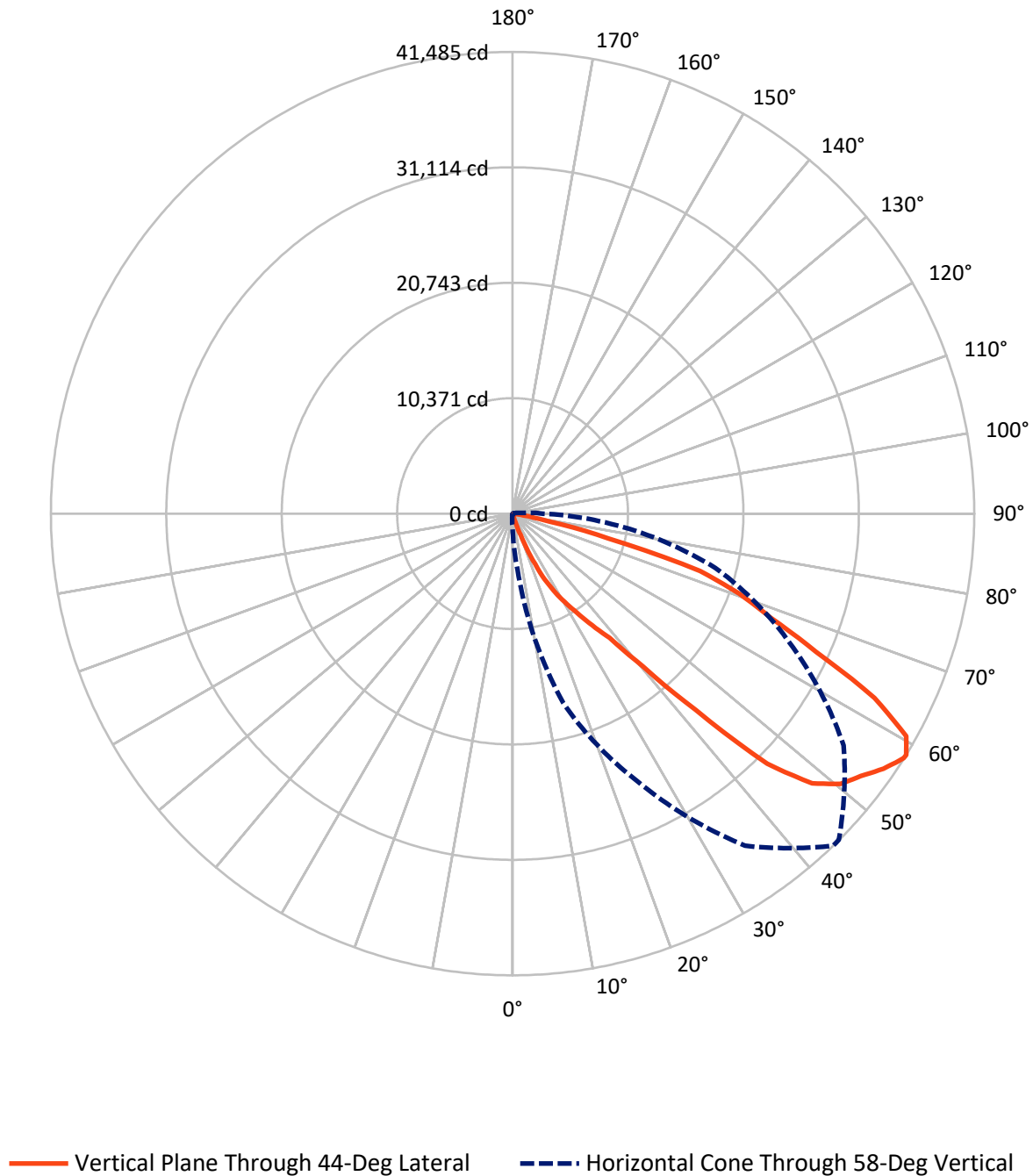


Based on 20 foot mounting height. Maximum calculated value = 28.1 fc

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	110.4	0.0	110.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16060.6	0.0	16060.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	16171.1	0.0	16171.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.0
10°-20°	35.5	0.2
20°-30°	383.1	2.4
30°-40°	1132.9	7.0
40°-50°	3376.8	20.9
50°-60°	5358.1	33.1
60°-70°	4469.3	27.6
70°-80°	1378.4	8.5
80°-90°	30.6	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°	16171.1	100.0
0°-180°	16171.1	100.0



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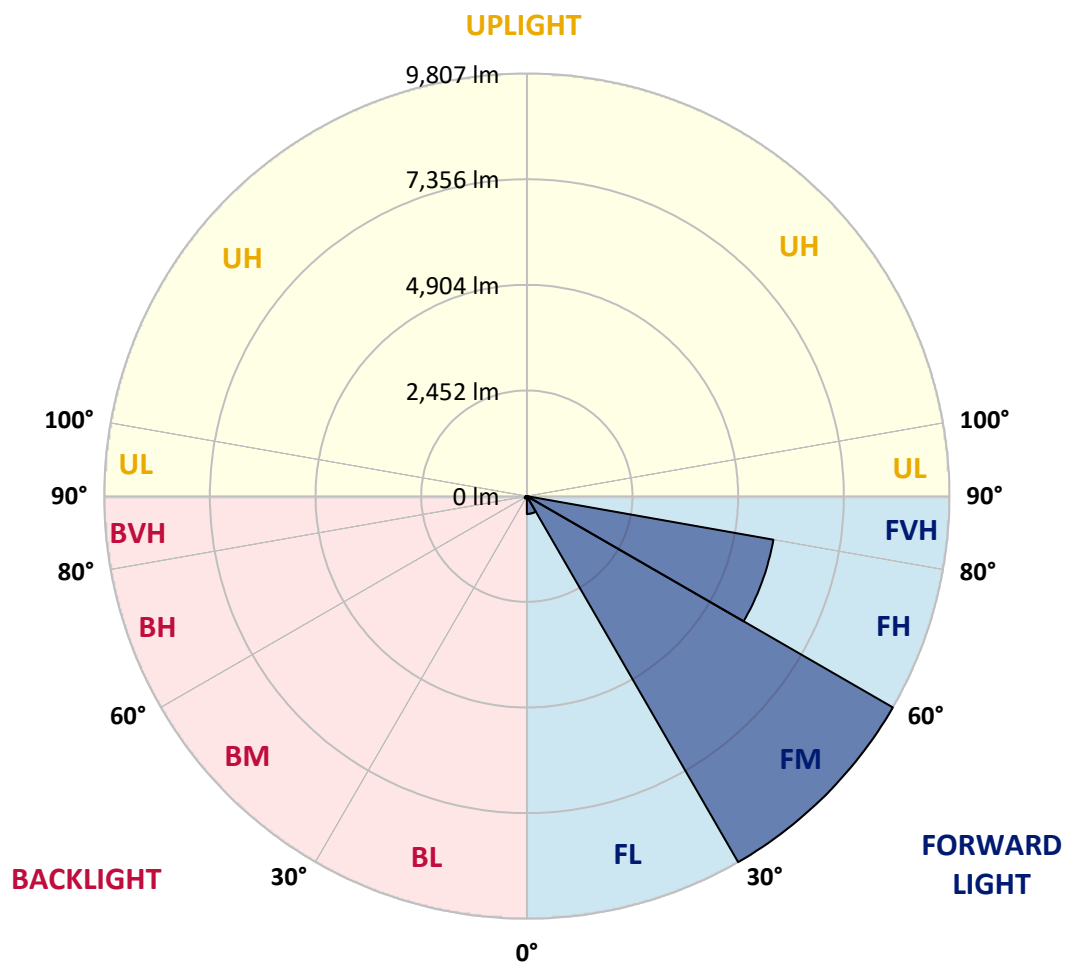
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.1	2.6			
FM	(30°-60°)	9807.4	60.6			
FH	(60°-80°)	5810.0	35.9			G3/7500
FVH	(80°-90°)	29.1	0.2			G1/100
BL	(0°-30°)	10.8	0.1	B0/110		
BM	(30°-60°)	60.4	0.4	B0/220		
BH	(60°-80°)	37.7	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	44°	45°	55°	65°	75°
0°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
2.5°	91.6	91.6	88.0	83.1	78.2	73.3	72.1	69.6	68.4	67.2
5°	95.3	95.3	94.1	90.4	85.5	81.8	81.8	78.2	75.7	73.3
7.5°	97.7	98.9	101.4	100.2	97.7	94.1	94.1	91.6	88.0	81.8
10°	101.4	105.1	109.9	112.4	113.6	113.6	112.4	111.2	105.1	96.5
12.5°	105.1	112.4	124.6	136.8	144.1	153.9	152.7	150.3	134.4	116.1
15°	112.4	123.4	149.0	184.5	239.4	273.6	287.1	274.9	222.3	156.4
17.5°	120.9	139.3	216.2	386.0	632.8	750.1	820.9	763.5	505.7	296.8
20°	129.5	169.8	401.9	1000.5	1641.8	2025.4	2131.7	1965.5	1261.9	565.6
22.5°	144.1	238.2	814.8	2068.1	3537.7	4113.1	4221.8	3690.4	2383.3	1116.5
25°	174.7	345.7	1404.8	3370.4	5279.7	6250.9	6205.7	5509.4	3866.3	1783.5
27.5°	218.7	503.3	2124.3	4788.6	6948.4	7804.7	7907.3	7046.1	5153.9	2622.7
30°	282.2	697.5	2896.4	5924.7	8286.0	9212.0	9229.1	8338.5	6305.8	3359.4
32.5°	343.3	880.8	3571.9	7022.9	9604.1	10619.2	10695.0	9599.2	7165.8	4126.5
35°	389.7	1000.5	4256.0	7987.9	10933.2	12331.9	12327.0	11026.0	8184.6	4811.8
37.5°	393.4	1120.2	4875.3	8975.0	12616.5	14182.6	14337.8	12903.6	9416.0	5659.6
40°	384.8	1254.6	5659.6	10514.2	15649.7	18052.6	18189.4	16381.5	11886.0	7110.9
42.5°	394.6	1487.9	6932.5	13356.8	20686.3	24137.3	24401.2	22500.4	16426.7	10072.0
45°	445.9	1926.4	9599.2	18112.5	27865.6	32072.7	31984.8	29247.2	21710.0	14579.6
47.5°	615.7	3000.2	13552.3	22741.0	32453.9	36200.5	36276.2	32930.3	24793.3	18045.3
50°	946.7	4590.7	16873.8	25187.9	34426.7	38185.5	38114.7	34248.4	25964.8	19751.8
52.5°	1231.4	5741.5	18540.0	26046.6	34679.6	39166.5	39161.6	34595.3	26146.8	19898.4
55°	1302.2	5828.2	18553.4	26093.1	35246.4	40450.4	40611.6	35449.2	26382.6	19258.3
57.5°	1274.1	5160.0	17779.0	26361.8	36255.4	41443.5	41452.1	36276.2	26981.2	18866.2
58°	1249.7	5054.9	17622.6	26514.5	36428.9	41485.0	41464.3	36314.1	27468.6	18851.5
60°	1112.9	4389.2	17013.0	26904.2	36171.2	40632.4	40438.2	35487.1	27396.5	18701.3
62.5°	874.7	3424.1	16413.2	26453.4	33407.9	36504.6	36585.3	31418.0	24975.3	17825.4
65°	696.3	2551.9	15162.3	23204.0	27510.1	29977.7	30278.2	25548.2	20846.4	15093.9
67.5°	554.6	1844.6	12719.2	18474.0	21768.7	25019.3	25238.0	21449.8	16150.6	11564.8
70°	450.8	1247.2	8779.5	13510.7	17954.9	21609.9	21623.3	17819.3	12054.6	7577.5
72.5°	399.5	863.7	5096.5	9853.3	14558.9	17609.2	17253.7	14459.9	9264.5	4488.1
75°	345.7	572.9	2499.4	6023.6	8827.2	8887.0	9022.6	6707.7	4631.0	2134.1
77.5°	284.6	406.8	984.6	1645.5	2647.2	3388.7	3514.5	2663.1	1540.4	525.3
80°	195.5	193.0	265.1	504.5	757.4	949.2	885.6	685.3	403.1	201.6
82.5°	84.3	91.6	119.7	144.1	117.3	113.6	108.7	69.6	53.7	41.5
85°	26.9	24.4	25.7	25.7	20.8	15.9	15.9	7.3	0.0	0.0
87.5°	13.4	11.0	11.0	9.8	6.1	2.4	1.2	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°
70.9	0°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
66.0	2.5°	64.7	64.7	62.3	59.9	58.6	56.2	55.0	53.7	52.5	51.3
70.9	5°	68.4	67.2	63.5	59.9	56.2	52.5	50.1	47.6	45.2	44.0
78.2	7.5°	74.5	72.1	64.7	58.6	53.7	48.9	46.4	42.8	40.3	36.6
86.7	10°	81.8	77.0	67.2	59.9	52.5	46.4	42.8	39.1	35.4	30.5
98.9	12.5°	91.6	83.1	70.9	58.6	50.1	42.8	39.1	34.2	30.5	26.9
114.8	15°	100.2	89.2	72.1	58.6	47.6	39.1	34.2	29.3	25.7	20.8
144.1	17.5°	112.4	94.1	70.9	55.0	44.0	34.2	29.3	25.7	19.5	12.2
213.8	20°	133.2	97.7	68.4	51.3	37.9	28.1	22.0	17.1	8.6	2.4
321.3	22.5°	166.1	107.5	66.0	46.4	33.0	22.0	14.7	6.1	0.0	0.0
488.6	25°	229.7	124.6	66.0	44.0	29.3	15.9	4.9	0.0	0.0	0.0
693.9	27.5°	305.4	147.8	66.0	37.9	23.2	8.6	0.0	0.0	0.0	0.0
945.5	30°	382.4	173.5	66.0	33.0	18.3	1.2	0.0	0.0	0.0	0.0
1164.2	32.5°	455.7	195.5	67.2	28.1	12.2	0.0	0.0	0.0	0.0	0.0
1467.1	35°	530.2	199.1	66.0	24.4	7.3	0.0	0.0	0.0	0.0	0.0
1838.5	37.5°	625.5	191.8	62.3	22.0	3.7	0.0	0.0	0.0	0.0	0.0
2418.7	40°	769.6	195.5	58.6	20.8	1.2	0.0	0.0	0.0	0.0	0.0
3453.4	42.5°	1035.9	211.3	53.7	20.8	0.0	0.0	0.0	0.0	0.0	0.0
5500.8	45°	1790.8	283.4	48.9	22.0	0.0	0.0	0.0	0.0	0.0	0.0
8257.9	47.5°	2962.3	509.4	47.6	22.0	0.0	0.0	0.0	0.0	0.0	0.0
9947.4	50°	3780.8	641.3	50.1	23.2	0.0	0.0	0.0	0.0	0.0	0.0
10158.7	52.5°	3774.7	714.6	52.5	24.4	4.9	0.0	0.0	0.0	0.0	0.0
9363.5	55°	3355.7	728.1	56.2	26.9	15.9	0.0	0.0	0.0	0.0	0.0
8046.6	57.5°	2804.8	664.5	64.7	33.0	29.3	0.0	0.0	0.0	0.0	0.0
7840.1	58°	2707.0	635.2	67.2	34.2	31.8	0.0	0.0	0.0	0.0	0.0
6800.6	60°	2218.4	518.0	85.5	42.8	42.8	0.0	0.0	0.0	0.0	0.0
5575.3	62.5°	1531.9	452.0	97.7	55.0	44.0	0.0	0.0	0.0	0.0	0.0
4110.6	65°	1083.5	408.0	106.3	58.6	35.4	0.0	0.0	0.0	0.0	0.0
2920.8	67.5°	809.9	376.2	117.3	59.9	18.3	0.0	0.0	0.0	0.0	0.0
1832.4	70°	620.6	353.0	144.1	63.5	4.9	0.0	0.0	0.0	0.0	0.0
1092.1	72.5°	505.7	326.2	174.7	66.0	0.0	0.0	0.0	0.0	0.0	0.0
654.8	75°	419.0	294.4	168.6	72.1	0.0	0.0	0.0	0.0	0.0	0.0
349.4	77.5°	278.5	228.4	153.9	72.1	0.0	0.0	0.0	0.0	0.0	0.0
124.6	80°	97.7	90.4	119.7	63.5	0.0	0.0	0.0	0.0	0.0	0.0
25.7	82.5°	14.7	12.2	17.1	22.0	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	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°
70.9	0°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
50.1	2.5°	50.1	50.1	48.9	50.1	50.1	52.5	58.6	67.2	77.0	80.6
42.8	5°	41.5	40.3	39.1	39.1	39.1	42.8	47.6	57.4	68.4	73.3
35.4	7.5°	34.2	33.0	31.8	30.5	30.5	33.0	39.1	50.1	61.1	66.0
29.3	10°	28.1	25.7	24.4	23.2	23.2	25.7	31.8	42.8	55.0	59.9
24.4	12.5°	23.2	19.5	17.1	15.9	14.7	18.3	24.4	34.2	47.6	53.7
18.3	15°	15.9	12.2	8.6	7.3	6.1	9.8	15.9	26.9	40.3	47.6
9.8	17.5°	8.6	3.7	1.2	0.0	0.0	2.4	7.3	19.5	33.0	39.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	24.4	30.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.7	20.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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	3.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.8
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°
70.9	0°	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
84.3	2.5°	86.7	85.5	83.1	80.6	80.6	80.6	84.3	88.0	91.6	91.6
75.7	5°	80.6	80.6	79.4	77.0	77.0	78.2	83.1	89.2	94.1	95.3
69.6	7.5°	74.5	77.0	74.5	73.3	74.5	75.7	80.6	88.0	95.3	97.7
64.7	10°	70.9	72.1	72.1	70.9	70.9	73.3	78.2	88.0	97.7	101.4
58.6	12.5°	66.0	68.4	67.2	67.2	67.2	69.6	75.7	86.7	100.2	105.1
52.5	15°	61.1	64.7	64.7	63.5	63.5	64.7	73.3	85.5	103.8	112.4
45.2	17.5°	56.2	59.9	61.1	58.6	58.6	61.1	69.6	85.5	106.3	120.9
36.6	20°	46.4	52.5	56.2	52.5	52.5	55.0	63.5	80.6	107.5	129.5
26.9	22.5°	36.6	42.8	47.6	46.4	46.4	47.6	58.6	77.0	108.7	144.1
15.9	25°	26.9	33.0	36.6	39.1	39.1	42.8	53.7	74.5	113.6	174.7
7.3	27.5°	15.9	23.2	28.1	30.5	31.8	36.6	50.1	72.1	122.2	218.7
0.0	30°	7.3	13.4	19.5	24.4	24.4	33.0	46.4	69.6	133.2	282.2
0.0	32.5°	0.0	6.1	9.8	17.1	18.3	26.9	42.8	67.2	149.0	343.3
0.0	35°	0.0	0.0	4.9	13.4	13.4	22.0	39.1	64.7	173.5	389.7
0.0	37.5°	0.0	0.0	0.0	9.8	11.0	19.5	37.9	63.5	178.4	393.4
0.0	40°	0.0	0.0	0.0	7.3	8.6	18.3	37.9	64.7	161.2	384.8
0.0	42.5°	0.0	0.0	0.0	4.9	6.1	18.3	37.9	67.2	145.4	394.6
0.0	45°	0.0	0.0	0.0	3.7	4.9	19.5	36.6	66.0	136.8	445.9
0.0	47.5°	0.0	0.0	0.0	4.9	7.3	19.5	35.4	64.7	138.0	615.7
0.0	50°	0.0	0.0	0.0	6.1	8.6	19.5	36.6	62.3	151.5	946.7
0.0	52.5°	0.0	0.0	0.0	4.9	7.3	22.0	40.3	61.1	164.9	1231.4
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.1	44.0	61.1	185.7	1302.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.8	50.1	64.7	219.9	1274.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.8	51.3	64.7	222.3	1249.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.8	56.2	72.1	239.4	1112.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	26.9	67.2	90.4	249.2	874.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.0	79.4	98.9	256.5	696.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.8	81.8	100.2	260.2	554.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.0	80.6	107.5	272.4	450.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.4	73.3	118.5	272.4	399.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.7	68.4	133.2	248.0	345.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.4	67.2	155.1	221.1	284.6
0.0	80°	2.4	3.7	3.7	2.4	2.4	20.8	66.0	157.6	188.1	195.5
1.2	82.5°	7.3	9.8	8.6	6.1	6.1	18.3	58.6	131.9	97.7	84.3
7.3	85°	13.4	15.9	15.9	13.4	13.4	17.1	36.6	47.6	33.0	26.9
13.4	87.5°	18.3	20.8	20.8	18.3	18.3	17.1	15.9	14.7	13.4	13.4
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: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

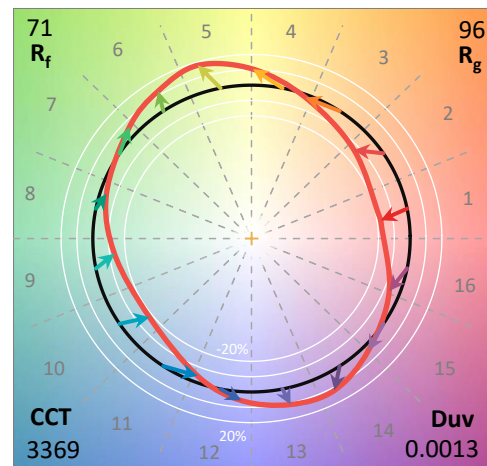
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 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-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

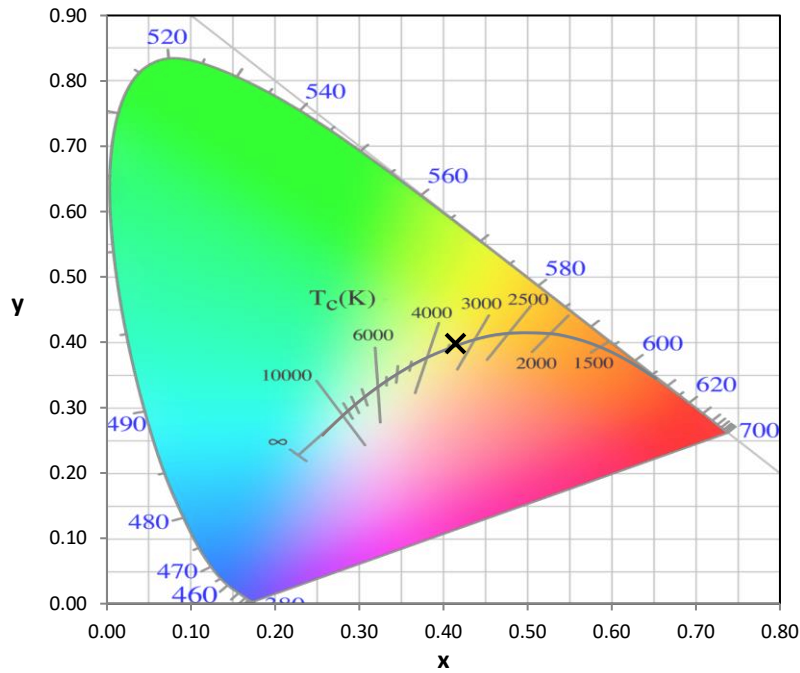
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

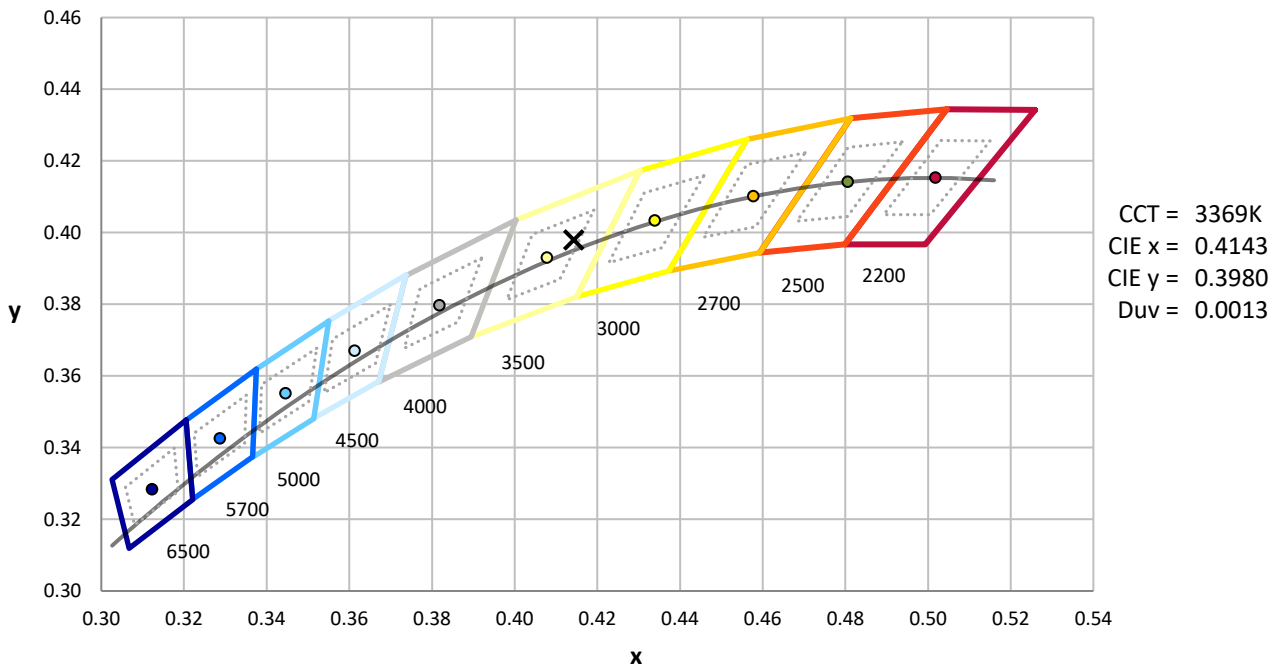
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram

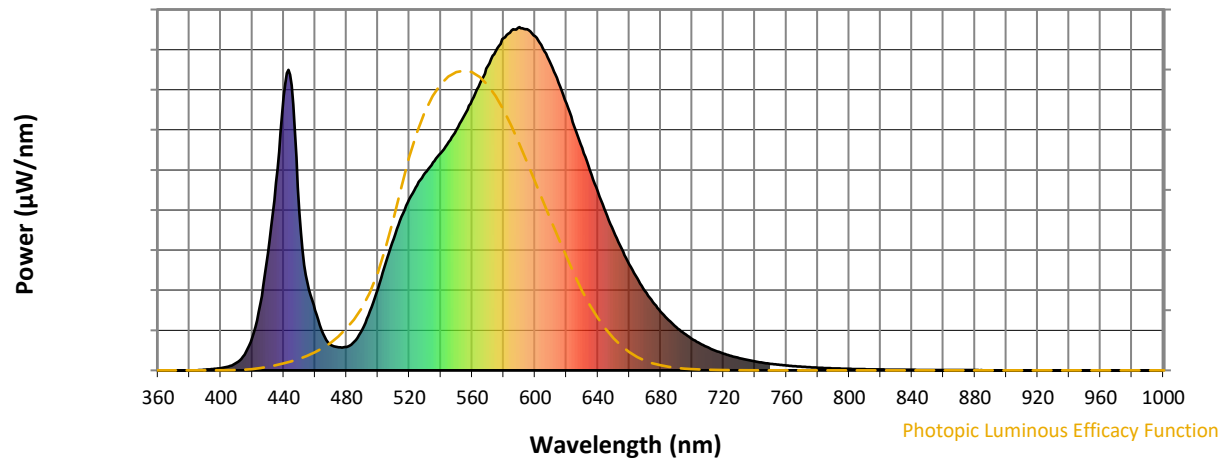


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

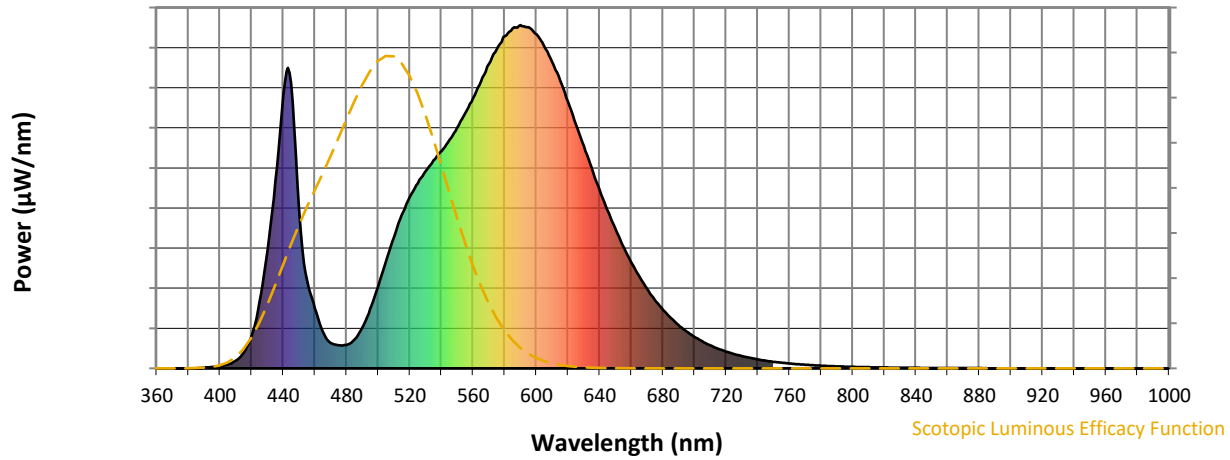


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



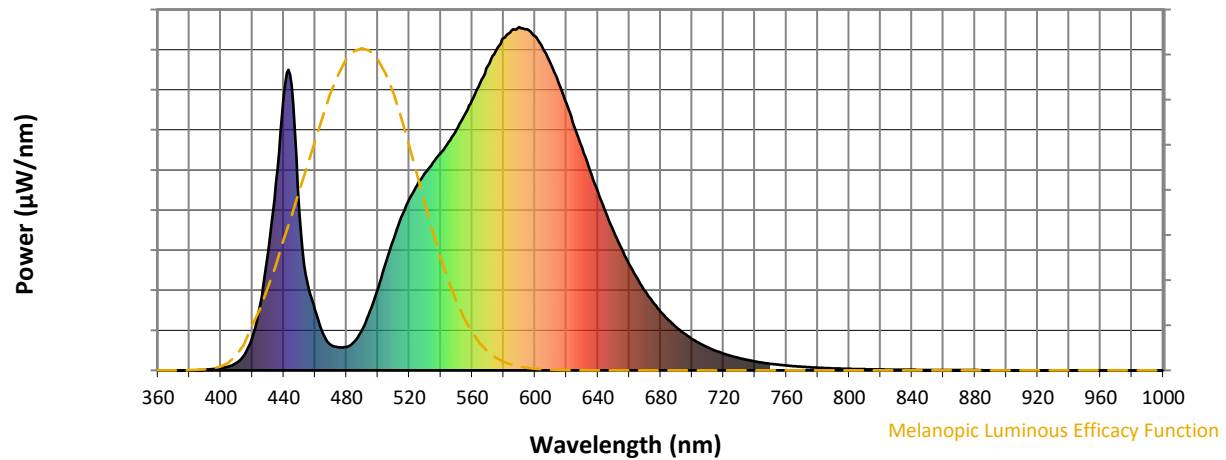
Scotopic Lumens: NR

S/P: 1.29

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

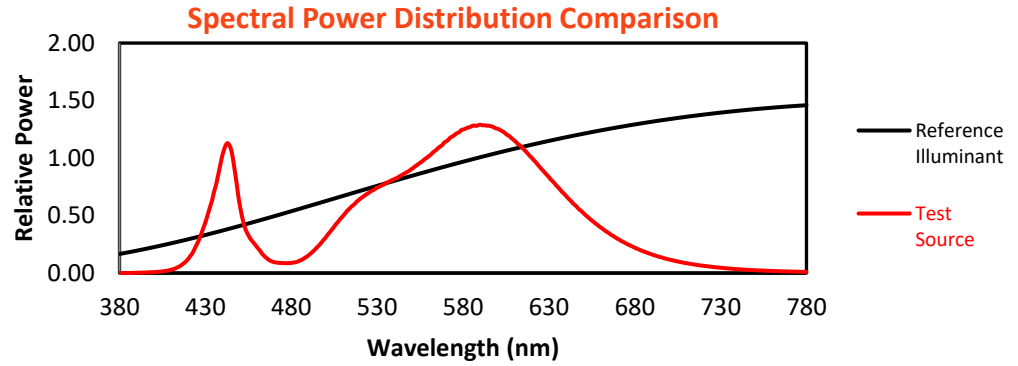
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

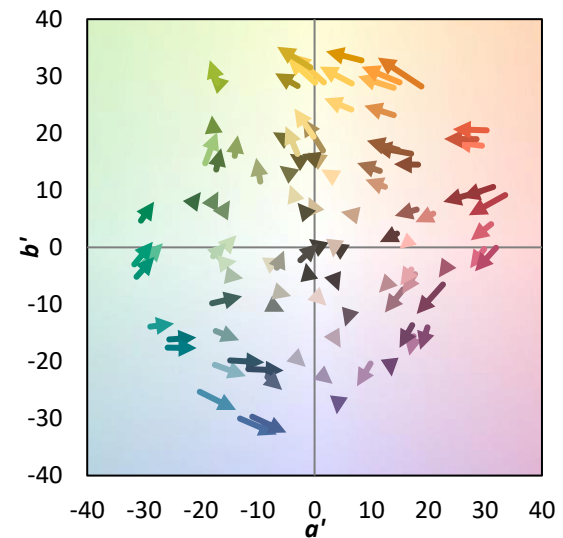
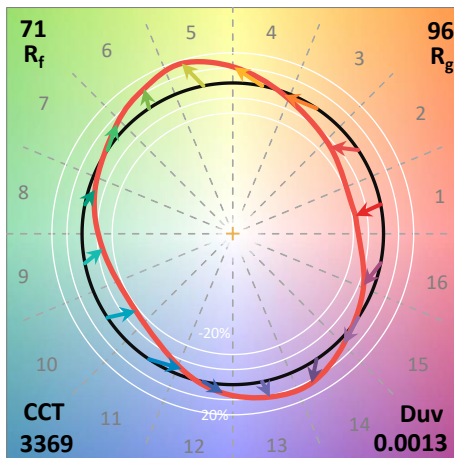
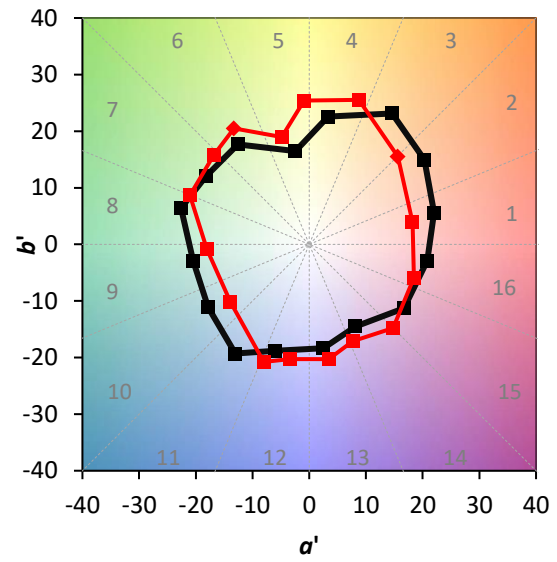
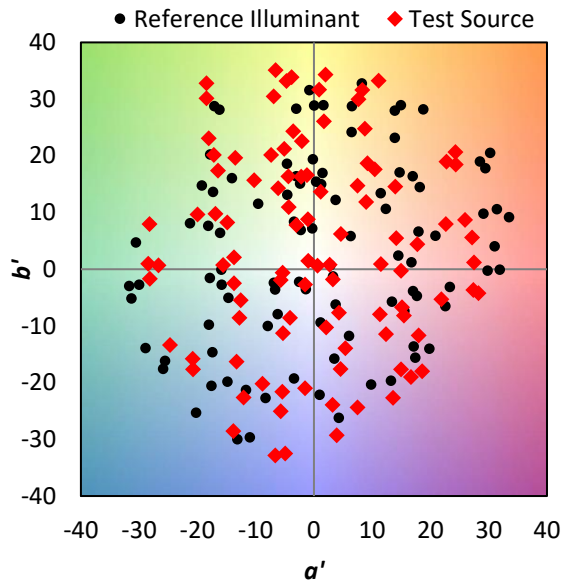
TM-30-18

Summary

$R_f = 71.4$
 $R_g = 96$
 CIE $R_a = 70.1$
 $R_g = -40.2$

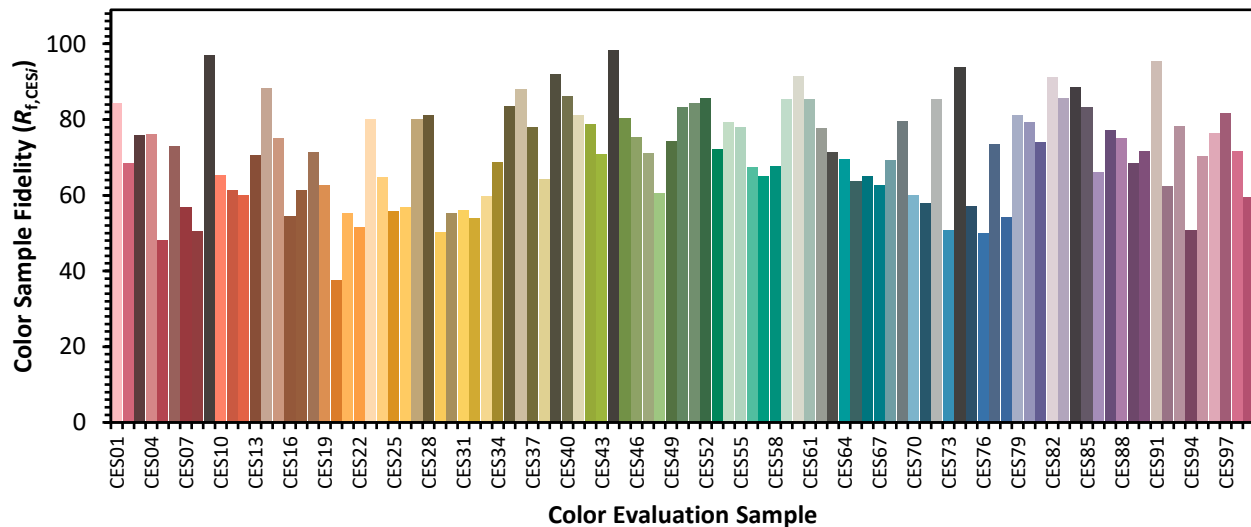


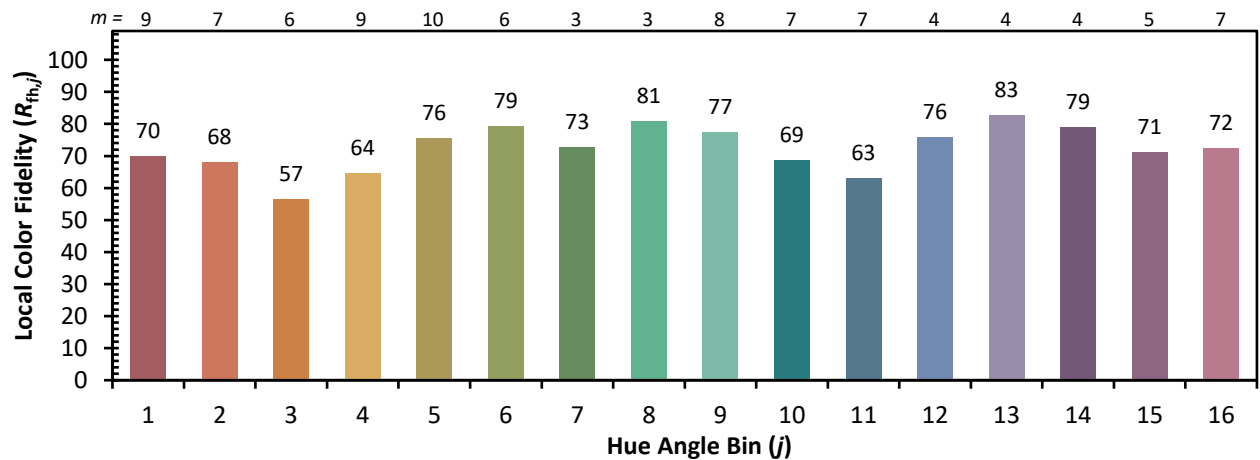
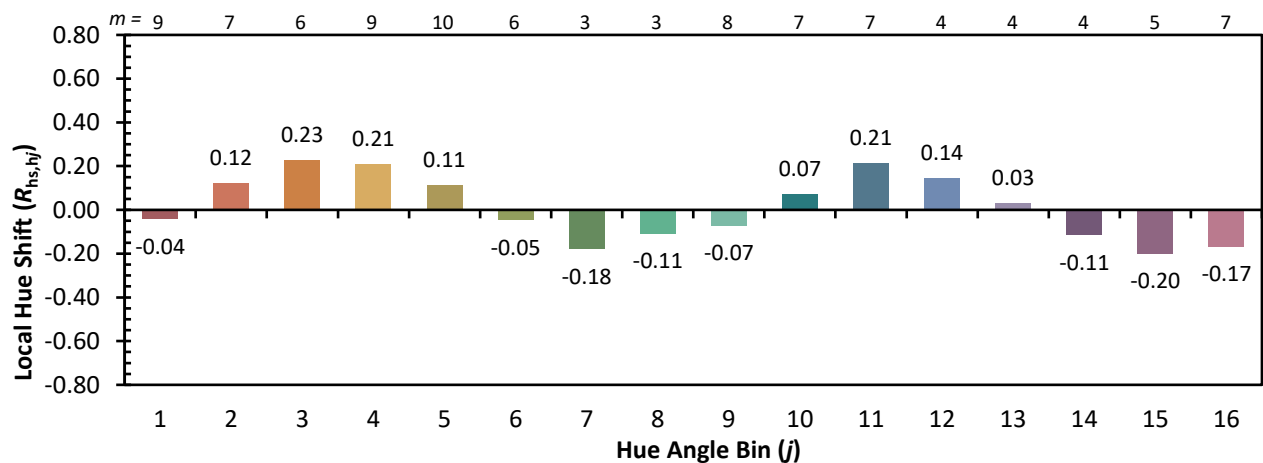
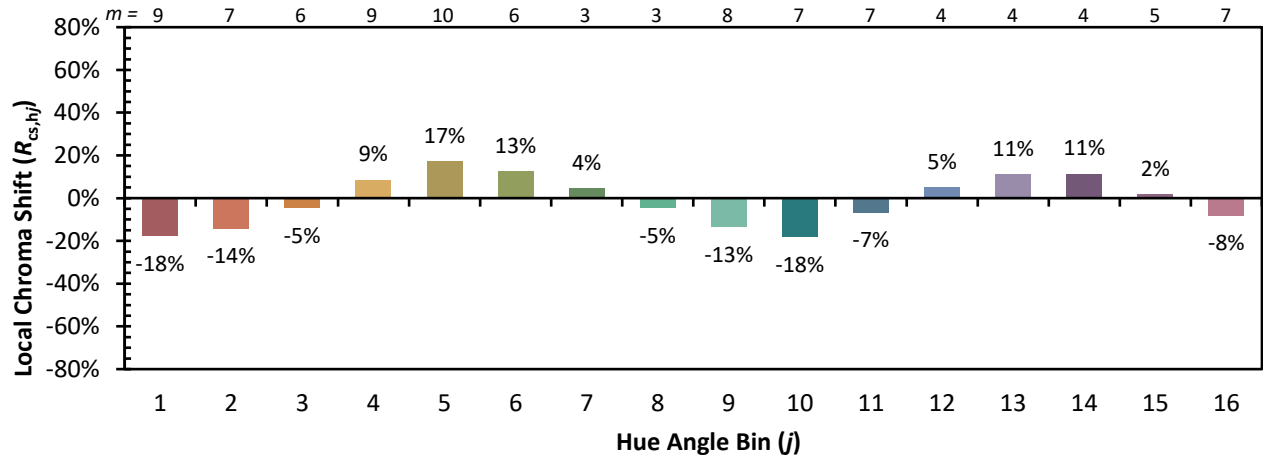
Color Vector Graphics



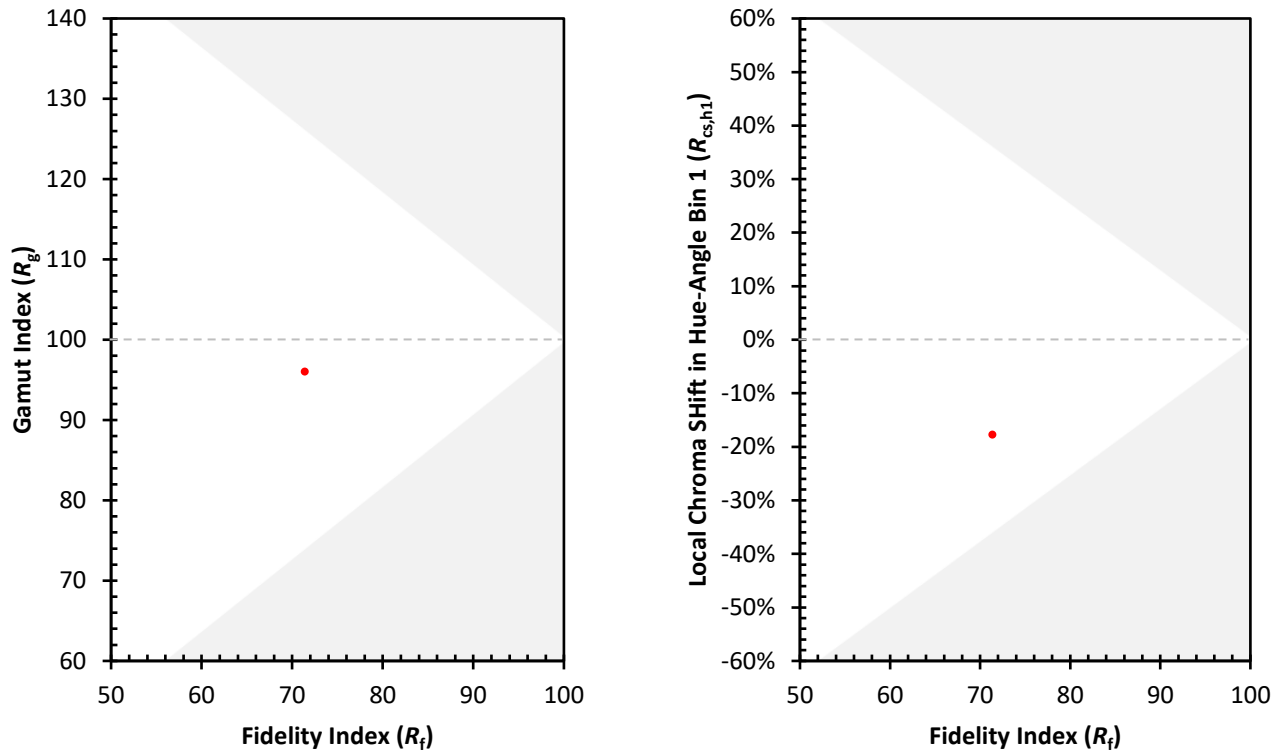
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)