

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: P1049619

Luminaire Tested: **GALN-SA4C-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049619
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 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: 20175.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

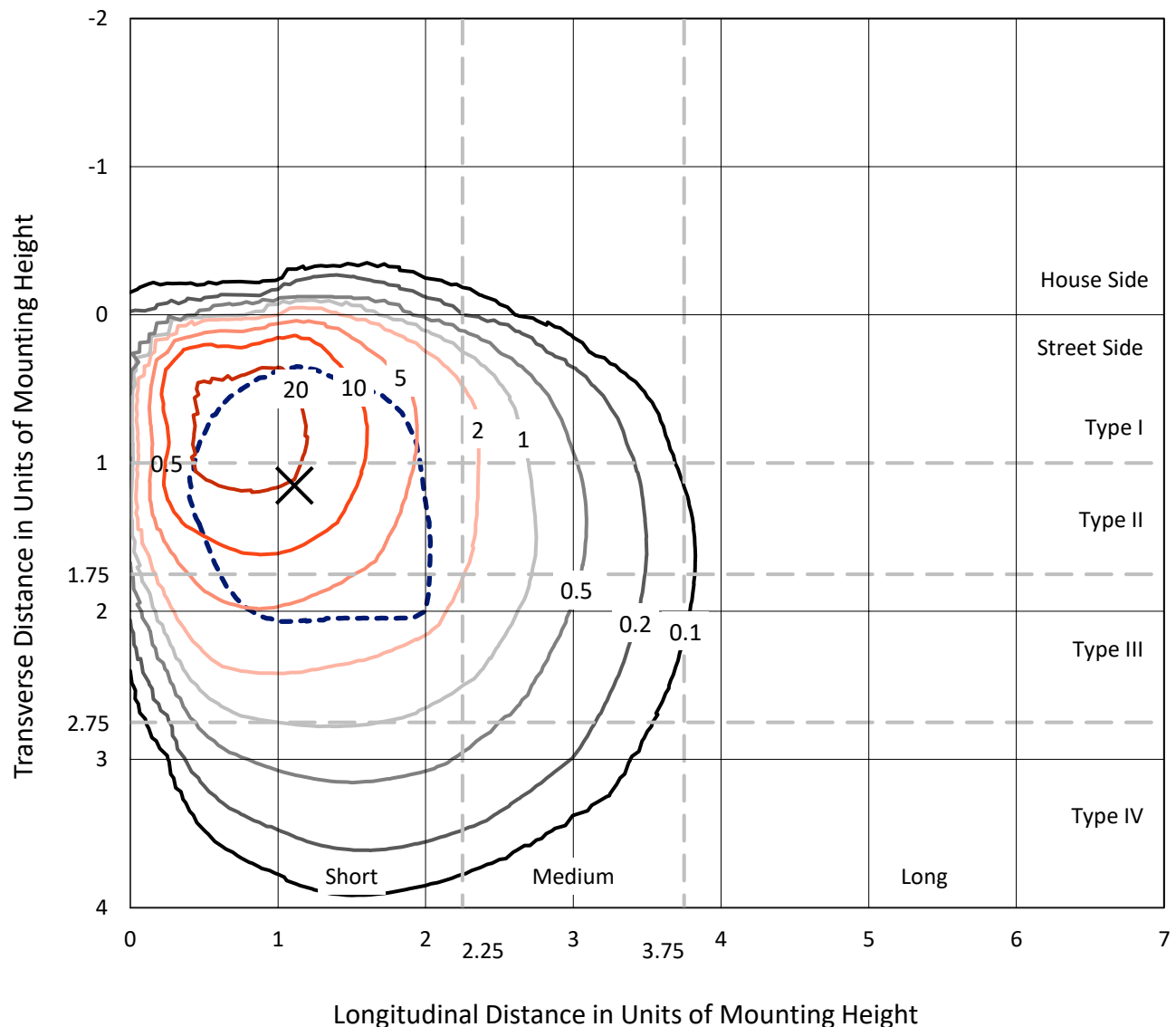
Input Watts (W): 190.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

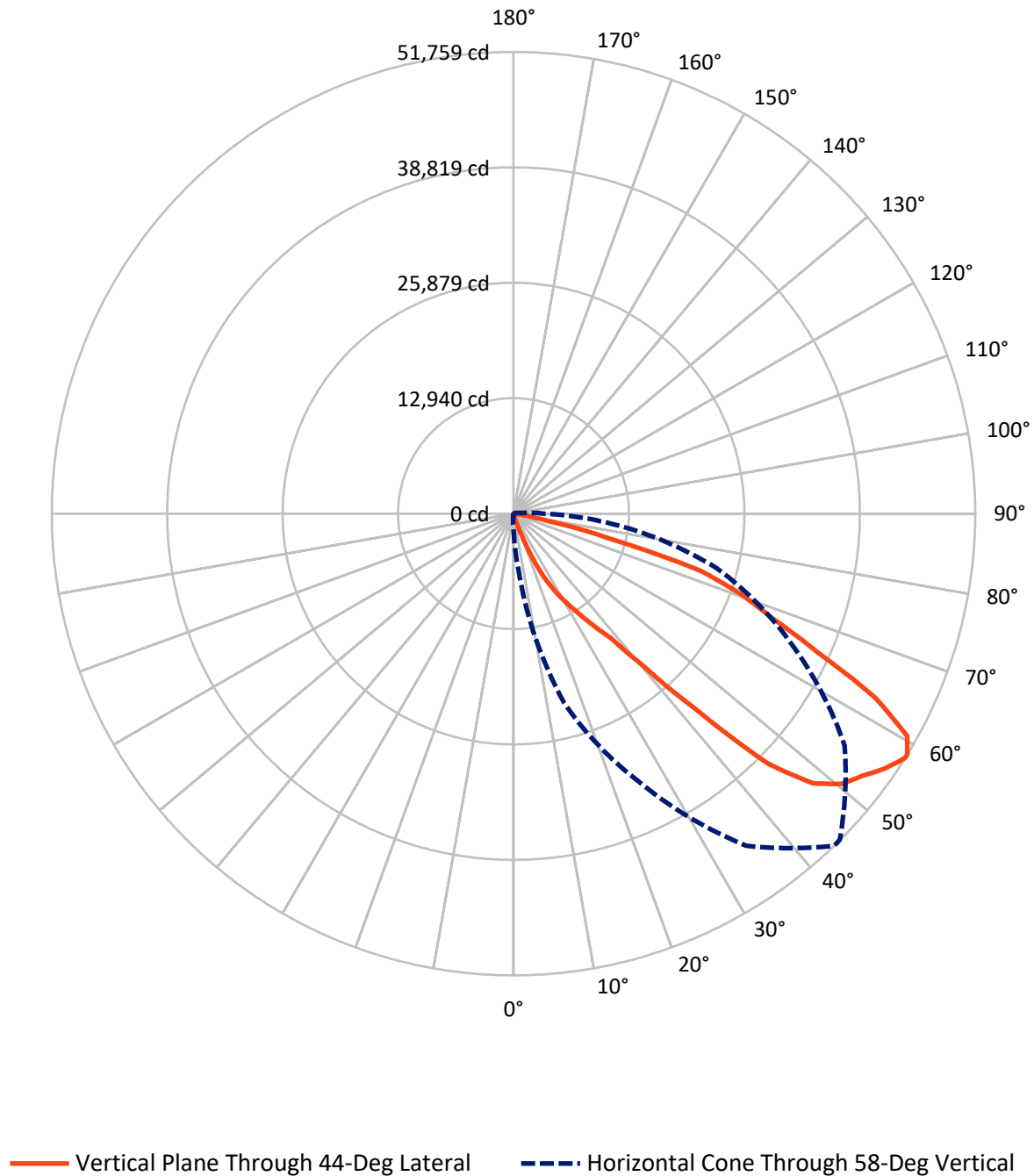
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.1 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	137.8	0.0	137.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	20038.0	0.0	20038.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	20175.7	0.0	20175.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.0
10°-20°	44.2	0.2
20°-30°	478.0	2.4
30°-40°	1413.5	7.0
40°-50°	4213.0	20.9
50°-60°	6685.0	33.1
60°-70°	5576.1	27.6
70°-80°	1719.8	8.5
80°-90°	38.2	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°	20175.7	100.0
0°-180°	20175.7	100.0



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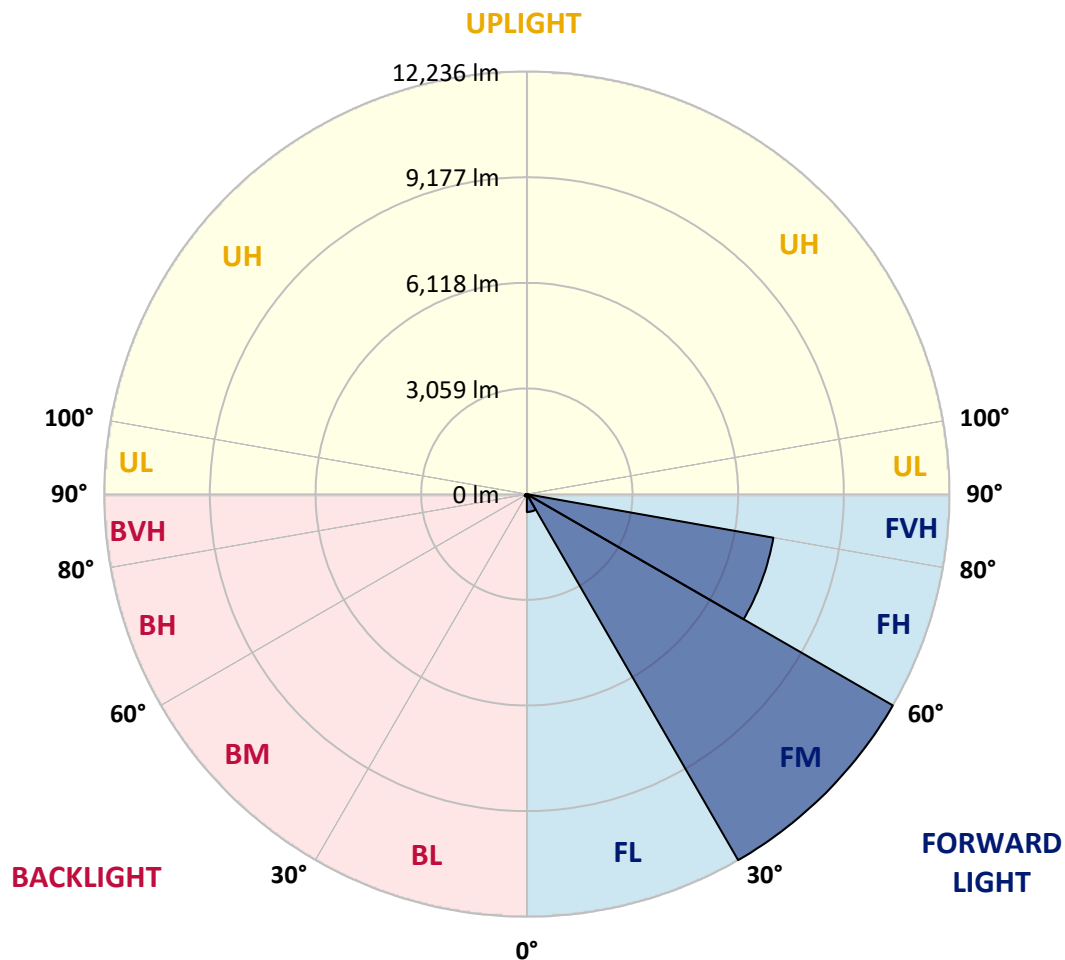
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.6	2.6			
FM	(30°-60°)	12236.2	60.6			
FH	(60°-80°)	7248.8	35.9			G3/7500
FVH	(80°-90°)	36.3	0.2			G1/100
BL	(0°-30°)	13.5	0.1	B0/110		
BM	(30°-60°)	75.4	0.4	B0/220		
BH	(60°-80°)	47.0	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
2.5°	114.3	114.3	109.7	103.6	97.5	91.4	89.9	86.9	85.3	83.8
5°	118.9	118.9	117.4	112.8	106.7	102.1	102.1	97.5	94.5	91.4
7.5°	121.9	123.5	126.5	125.0	121.9	117.4	117.4	114.3	109.7	102.1
10°	126.5	131.1	137.2	140.2	141.7	141.7	140.2	138.7	131.1	120.4
12.5°	131.1	140.2	155.5	170.7	179.8	192.0	190.5	187.5	167.7	144.8
15°	140.2	153.9	185.9	230.1	298.7	341.4	358.2	342.9	277.4	195.1
17.5°	150.9	173.7	269.8	481.6	789.5	935.8	1024.2	952.6	631.0	370.4
20°	161.6	211.9	501.4	1248.2	2048.4	2527.0	2659.6	2452.3	1574.4	705.7
22.5°	179.8	297.2	1016.6	2580.3	4413.8	5131.7	5267.3	4604.3	2973.5	1393.0
25°	217.9	431.3	1752.7	4205.0	6587.2	7798.8	7742.5	6873.7	4823.8	2225.2
27.5°	272.8	627.9	2650.4	5974.5	8669.1	9737.5	9865.5	8791.0	6430.2	3272.3
30°	352.1	870.3	3613.7	7391.9	10338.0	11493.3	11514.6	10403.5	7867.4	4191.3
32.5°	428.3	1098.9	4456.5	8762.1	11982.5	13249.0	13343.5	11976.4	8940.4	5148.4
35°	486.2	1248.2	5310.0	9966.1	13640.7	15385.8	15379.7	13756.6	10211.5	6003.4
37.5°	490.8	1397.6	6082.7	11197.6	15740.9	17694.9	17888.4	16099.1	11747.8	7061.2
40°	480.1	1565.3	7061.2	13118.0	19525.3	22523.2	22693.9	20438.2	14829.5	8871.8
42.5°	492.3	1856.4	8649.3	16664.6	25809.2	30114.8	30444.0	28072.5	20494.6	12566.2
45°	556.3	2403.5	11976.4	22597.9	34766.3	40015.4	39905.6	36490.1	27086.4	18190.2
47.5°	768.1	3743.2	16908.4	28372.7	40490.9	45165.3	45259.8	41085.3	30933.2	22514.1
50°	1181.2	5727.6	21052.5	31425.5	42952.3	47642.0	47553.6	42729.8	32394.8	24643.2
52.5°	1536.3	7163.3	23131.3	32497.0	43267.8	48865.8	48859.7	43162.6	32621.9	24826.1
55°	1624.7	7271.5	23148.1	32554.9	43975.0	50467.7	50668.8	44228.0	32916.1	24027.5
57.5°	1589.6	6437.8	22181.8	32890.2	45233.9	51706.8	51717.4	45259.8	33662.9	23538.3
58°	1559.2	6306.7	21986.7	33080.7	45450.3	51758.6	51732.7	45307.1	34271.0	23520.0
60°	1388.5	5476.1	21226.2	33566.9	45128.7	50694.8	50452.4	44275.2	34181.1	23332.5
62.5°	1091.3	4272.1	20477.9	33004.5	41681.2	45544.8	45645.4	39198.4	31160.3	22239.7
65°	868.7	3183.9	18917.2	28950.4	34322.8	37401.5	37776.5	31875.1	26008.8	18831.8
67.5°	691.9	2301.4	15869.0	23049.0	27159.5	31215.2	31488.0	26761.7	20150.2	14428.7
70°	562.4	1556.1	10953.7	16856.6	22401.3	26961.4	26978.2	22232.1	15039.9	9454.0
72.5°	498.4	1077.5	6358.6	12293.4	18164.3	21970.0	21526.4	18040.8	11558.8	5599.6
75°	431.3	714.8	3118.3	7515.4	11013.2	11087.9	11257.0	8368.9	5777.9	2662.6
77.5°	355.1	507.5	1228.4	2053.0	3302.7	4227.9	4384.8	3322.5	1921.9	655.4
80°	243.9	240.8	330.7	629.5	944.9	1184.2	1105.0	855.0	503.0	251.5
82.5°	105.2	114.3	149.4	179.8	146.3	141.7	135.6	86.9	67.1	51.8
85°	33.5	30.5	32.0	32.0	25.9	19.8	19.8	9.1	0.0	0.0
87.5°	16.8	13.7	13.7	12.2	7.6	3.0	1.5	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°
88.4	0°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
82.3	2.5°	80.8	80.8	77.7	74.7	73.2	70.1	68.6	67.1	65.5	64.0
88.4	5°	85.3	83.8	79.3	74.7	70.1	65.5	62.5	59.4	56.4	54.9
97.5	7.5°	93.0	89.9	80.8	73.2	67.1	61.0	57.9	53.3	50.3	45.7
108.2	10°	102.1	96.0	83.8	74.7	65.5	57.9	53.3	48.8	44.2	38.1
123.5	12.5°	114.3	103.6	88.4	73.2	62.5	53.3	48.8	42.7	38.1	33.5
143.3	15°	125.0	111.3	89.9	73.2	59.4	48.8	42.7	36.6	32.0	25.9
179.8	17.5°	140.2	117.4	88.4	68.6	54.9	42.7	36.6	32.0	24.4	15.2
266.7	20°	166.1	121.9	85.3	64.0	47.2	35.1	27.4	21.3	10.7	3.0
400.8	22.5°	207.3	134.1	82.3	57.9	41.2	27.4	18.3	7.6	0.0	0.0
609.6	25°	286.5	155.5	82.3	54.9	36.6	19.8	6.1	0.0	0.0	0.0
865.7	27.5°	381.0	184.4	82.3	47.2	29.0	10.7	0.0	0.0	0.0	0.0
1179.7	30°	477.0	216.4	82.3	41.2	22.9	1.5	0.0	0.0	0.0	0.0
1452.5	32.5°	568.5	243.9	83.8	35.1	15.2	0.0	0.0	0.0	0.0	0.0
1830.4	35°	661.5	248.4	82.3	30.5	9.1	0.0	0.0	0.0	0.0	0.0
2293.8	37.5°	780.3	239.3	77.7	27.4	4.6	0.0	0.0	0.0	0.0	0.0
3017.7	40°	960.2	243.9	73.2	25.9	1.5	0.0	0.0	0.0	0.0	0.0
4308.6	42.5°	1292.4	263.7	67.1	25.9	0.0	0.0	0.0	0.0	0.0	0.0
6863.0	45°	2234.3	353.6	61.0	27.4	0.0	0.0	0.0	0.0	0.0	0.0
10302.9	47.5°	3696.0	635.6	59.4	27.4	0.0	0.0	0.0	0.0	0.0	0.0
12410.8	50°	4717.1	800.2	62.5	29.0	0.0	0.0	0.0	0.0	0.0	0.0
12674.5	52.5°	4709.5	891.6	65.5	30.5	6.1	0.0	0.0	0.0	0.0	0.0
11682.3	55°	4186.7	908.4	70.1	33.5	19.8	0.0	0.0	0.0	0.0	0.0
10039.3	57.5°	3499.3	829.1	80.8	41.2	36.6	0.0	0.0	0.0	0.0	0.0
9781.7	58°	3377.4	792.5	83.8	42.7	39.6	0.0	0.0	0.0	0.0	0.0
8484.7	60°	2767.8	646.2	106.7	53.3	53.3	0.0	0.0	0.0	0.0	0.0
6956.0	62.5°	1911.2	563.9	121.9	68.6	54.9	0.0	0.0	0.0	0.0	0.0
5128.6	65°	1351.9	509.1	132.6	73.2	44.2	0.0	0.0	0.0	0.0	0.0
3644.1	67.5°	1010.5	469.4	146.3	74.7	22.9	0.0	0.0	0.0	0.0	0.0
2286.2	70°	774.2	440.5	179.8	79.3	6.1	0.0	0.0	0.0	0.0	0.0
1362.5	72.5°	631.0	406.9	217.9	82.3	0.0	0.0	0.0	0.0	0.0	0.0
816.9	75°	522.8	367.3	210.3	89.9	0.0	0.0	0.0	0.0	0.0	0.0
435.9	77.5°	347.5	285.0	192.0	89.9	0.0	0.0	0.0	0.0	0.0	0.0
155.5	80°	121.9	112.8	149.4	79.3	0.0	0.0	0.0	0.0	0.0	0.0
32.0	82.5°	18.3	15.2	21.3	27.4	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°
88.4	0°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
62.5	2.5°	62.5	62.5	61.0	62.5	62.5	65.5	73.2	83.8	96.0	100.6
53.3	5°	51.8	50.3	48.8	48.8	48.8	53.3	59.4	71.6	85.3	91.4
44.2	7.5°	42.7	41.2	39.6	38.1	38.1	41.2	48.8	62.5	76.2	82.3
36.6	10°	35.1	32.0	30.5	29.0	29.0	32.0	39.6	53.3	68.6	74.7
30.5	12.5°	29.0	24.4	21.3	19.8	18.3	22.9	30.5	42.7	59.4	67.1
22.9	15°	19.8	15.2	10.7	9.1	7.6	12.2	19.8	33.5	50.3	59.4
12.2	17.5°	10.7	4.6	1.5	0.0	0.0	3.0	9.1	24.4	41.2	48.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	30.5	38.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	18.3	25.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	13.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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	4.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	12.2
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°
88.4	0°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
105.2	2.5°	108.2	106.7	103.6	100.6	100.6	100.6	105.2	109.7	114.3	114.3
94.5	5°	100.6	100.6	99.1	96.0	96.0	97.5	103.6	111.3	117.4	118.9
86.9	7.5°	93.0	96.0	93.0	91.4	93.0	94.5	100.6	109.7	118.9	121.9
80.8	10°	88.4	89.9	89.9	88.4	88.4	91.4	97.5	109.7	121.9	126.5
73.2	12.5°	82.3	85.3	83.8	83.8	83.8	86.9	94.5	108.2	125.0	131.1
65.5	15°	76.2	80.8	80.8	79.3	79.3	80.8	91.4	106.7	129.5	140.2
56.4	17.5°	70.1	74.7	76.2	73.2	73.2	76.2	86.9	106.7	132.6	150.9
45.7	20°	57.9	65.5	70.1	65.5	65.5	68.6	79.3	100.6	134.1	161.6
33.5	22.5°	45.7	53.3	59.4	57.9	57.9	59.4	73.2	96.0	135.6	179.8
19.8	25°	33.5	41.2	45.7	48.8	48.8	53.3	67.1	93.0	141.7	217.9
9.1	27.5°	19.8	29.0	35.1	38.1	39.6	45.7	62.5	89.9	152.4	272.8
0.0	30°	9.1	16.8	24.4	30.5	30.5	41.2	57.9	86.9	166.1	352.1
0.0	32.5°	0.0	7.6	12.2	21.3	22.9	33.5	53.3	83.8	185.9	428.3
0.0	35°	0.0	0.0	6.1	16.8	16.8	27.4	48.8	80.8	216.4	486.2
0.0	37.5°	0.0	0.0	0.0	12.2	13.7	24.4	47.2	79.3	222.5	490.8
0.0	40°	0.0	0.0	0.0	9.1	10.7	22.9	47.2	80.8	201.2	480.1
0.0	42.5°	0.0	0.0	0.0	6.1	7.6	22.9	47.2	83.8	181.4	492.3
0.0	45°	0.0	0.0	0.0	4.6	6.1	24.4	45.7	82.3	170.7	556.3
0.0	47.5°	0.0	0.0	0.0	6.1	9.1	24.4	44.2	80.8	172.2	768.1
0.0	50°	0.0	0.0	0.0	7.6	10.7	24.4	45.7	77.7	189.0	1181.2
0.0	52.5°	0.0	0.0	0.0	6.1	9.1	27.4	50.3	76.2	205.8	1536.3
0.0	55°	0.0	0.0	0.0	1.5	4.6	35.1	54.9	76.2	231.7	1624.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	39.6	62.5	80.8	274.3	1589.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	39.6	64.0	80.8	277.4	1559.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	39.6	70.1	89.9	298.7	1388.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	33.5	83.8	112.8	310.9	1091.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.4	99.1	123.5	320.1	868.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.9	102.1	125.0	324.6	691.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.4	100.6	134.1	339.9	562.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	30.5	91.4	147.8	339.9	498.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	32.0	85.3	166.1	309.4	431.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	30.5	83.8	193.6	275.9	355.1
0.0	80°	3.0	4.6	4.6	3.0	3.0	25.9	82.3	196.6	234.7	243.9
1.5	82.5°	9.1	12.2	10.7	7.6	7.6	22.9	73.2	164.6	121.9	105.2
9.1	85°	16.8	19.8	19.8	16.8	16.8	21.3	45.7	59.4	41.2	33.5
16.8	87.5°	22.9	25.9	25.9	22.9	22.9	21.3	19.8	18.3	16.8	16.8
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

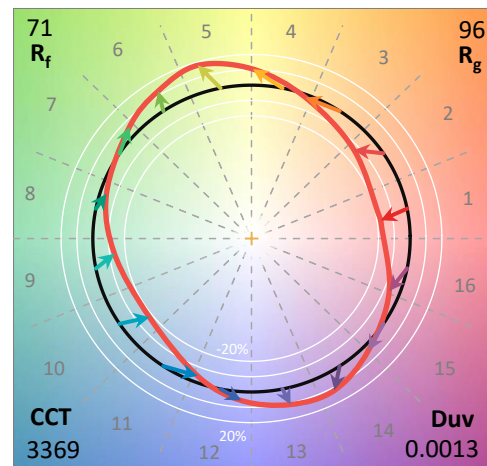
Test Information

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

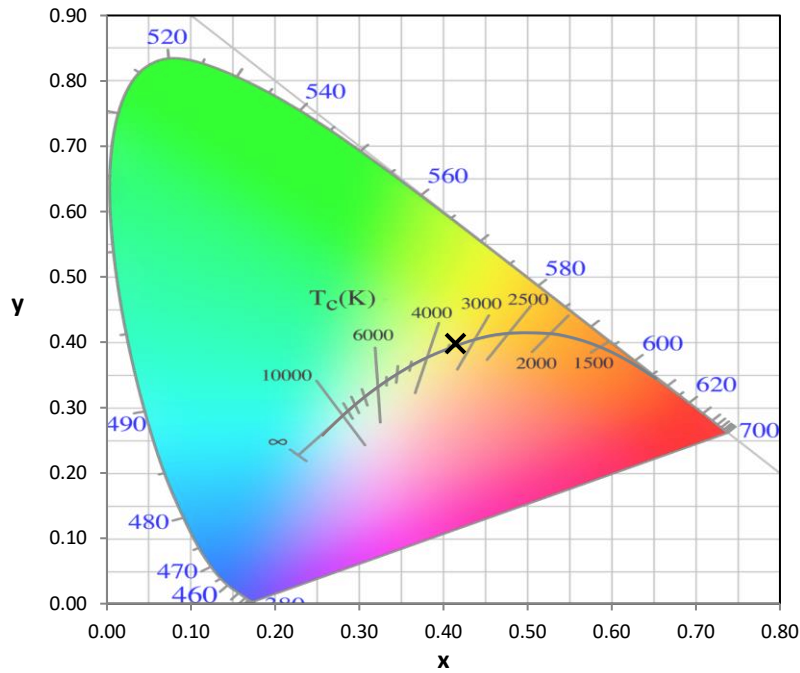
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

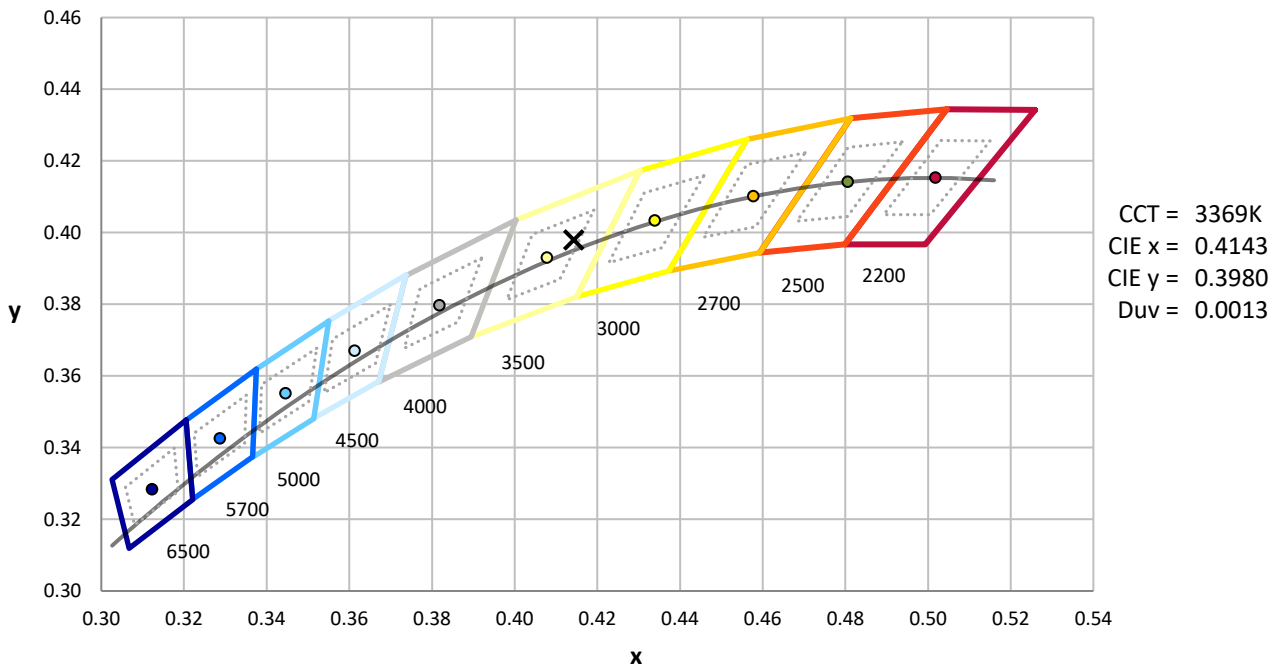
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

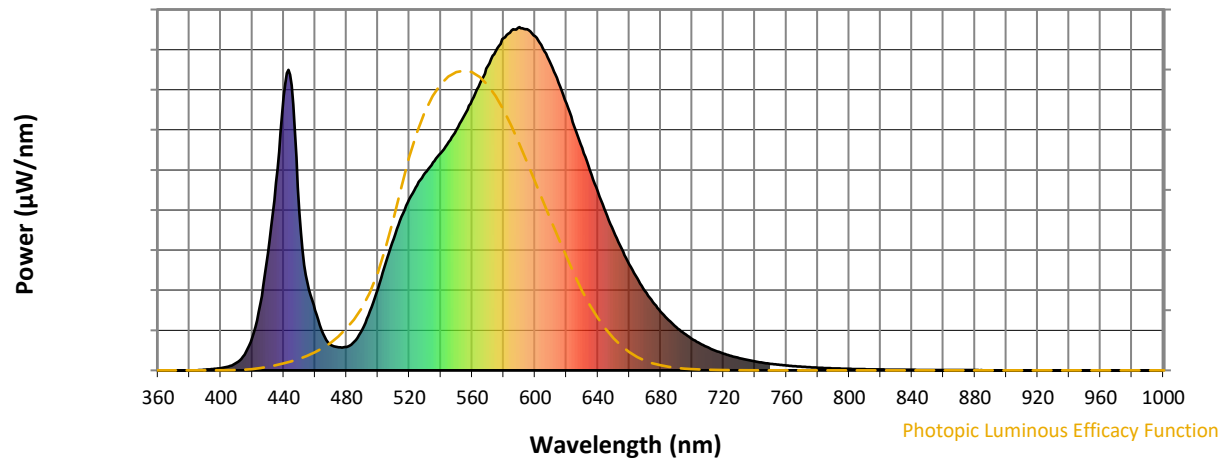


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

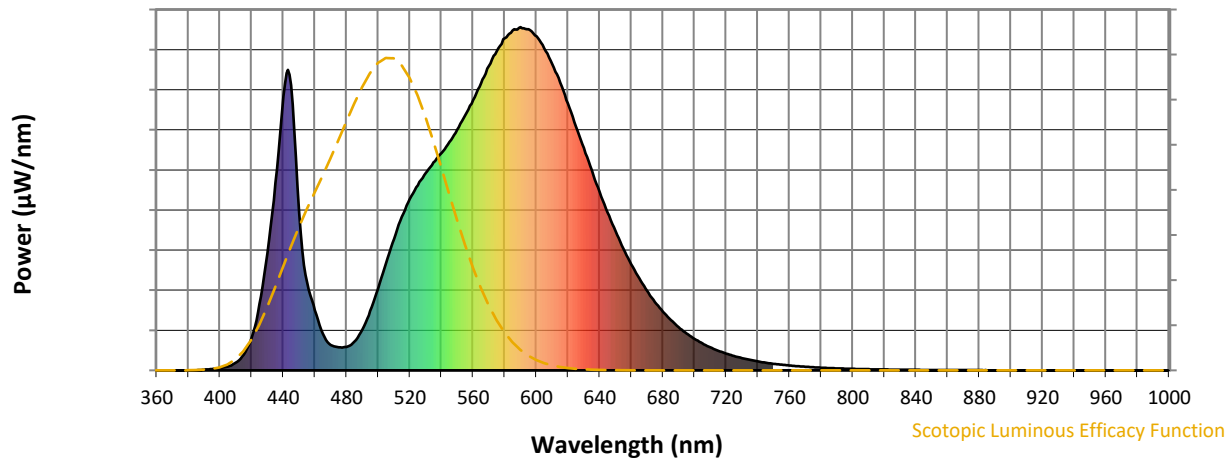


Photopic Lumens: NR

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



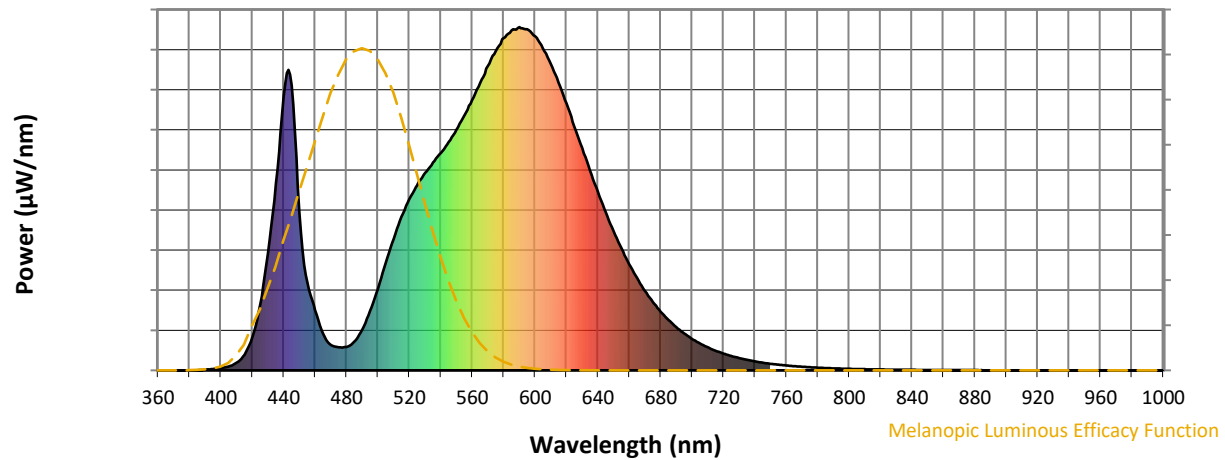
Scotopic Lumens: NR

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

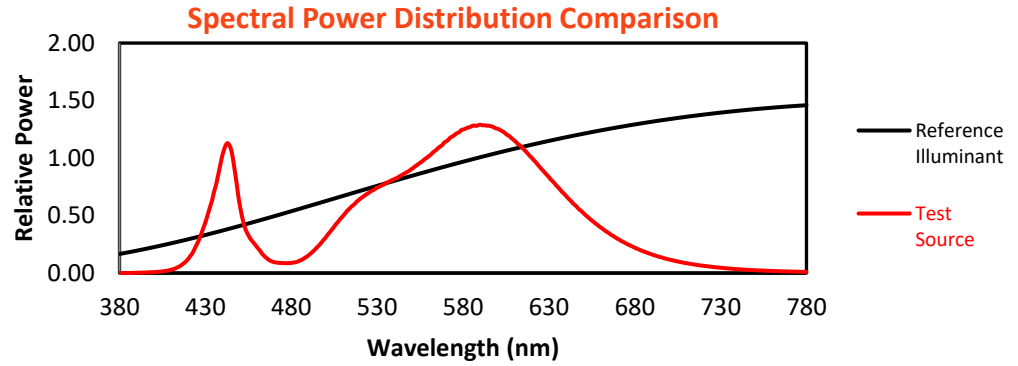
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	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

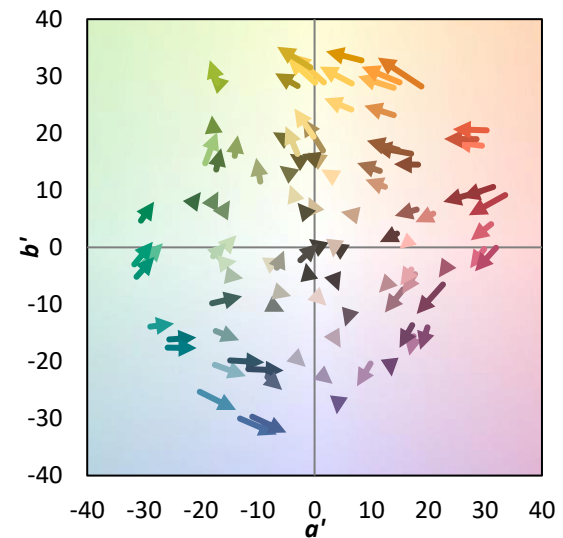
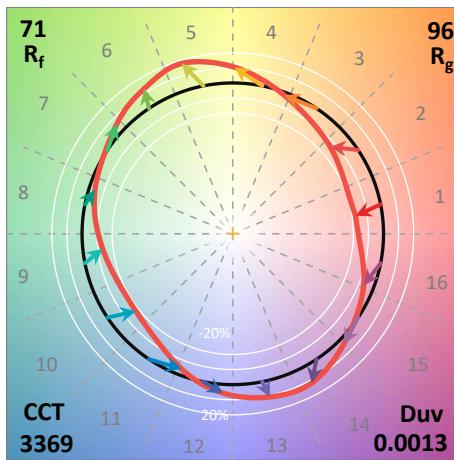
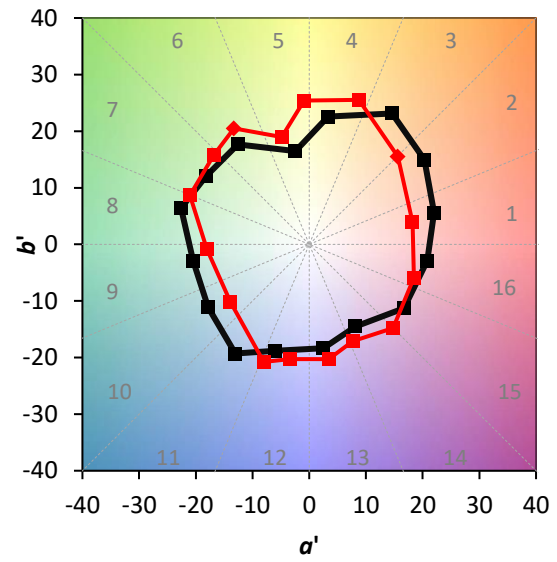
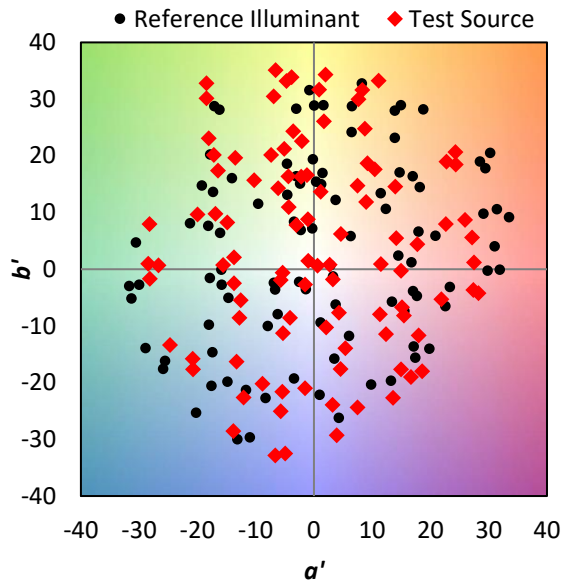
TM-30-18

Summary

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

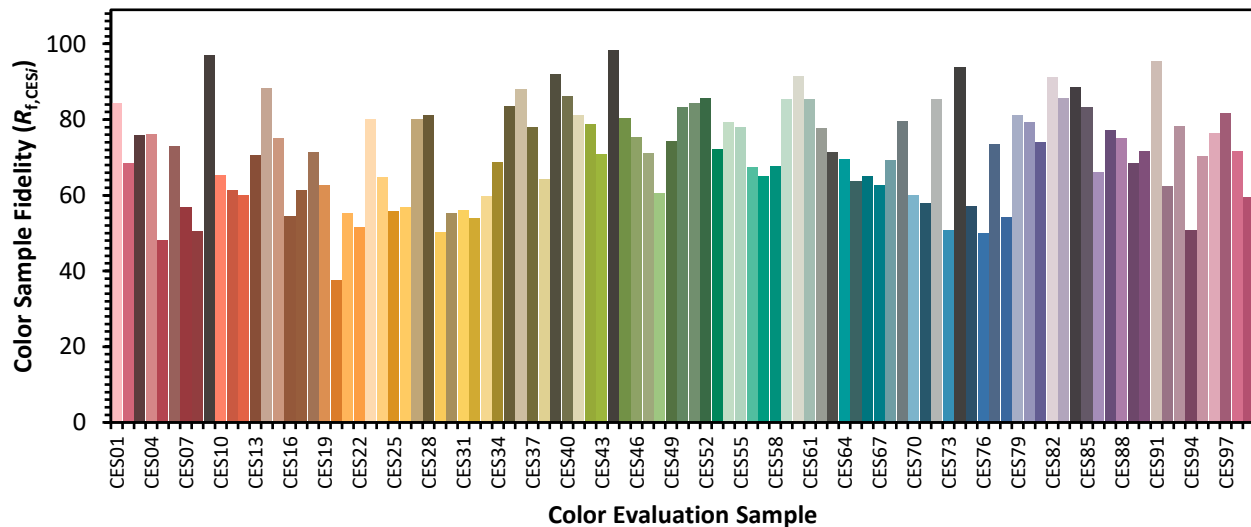


Color Vector Graphics

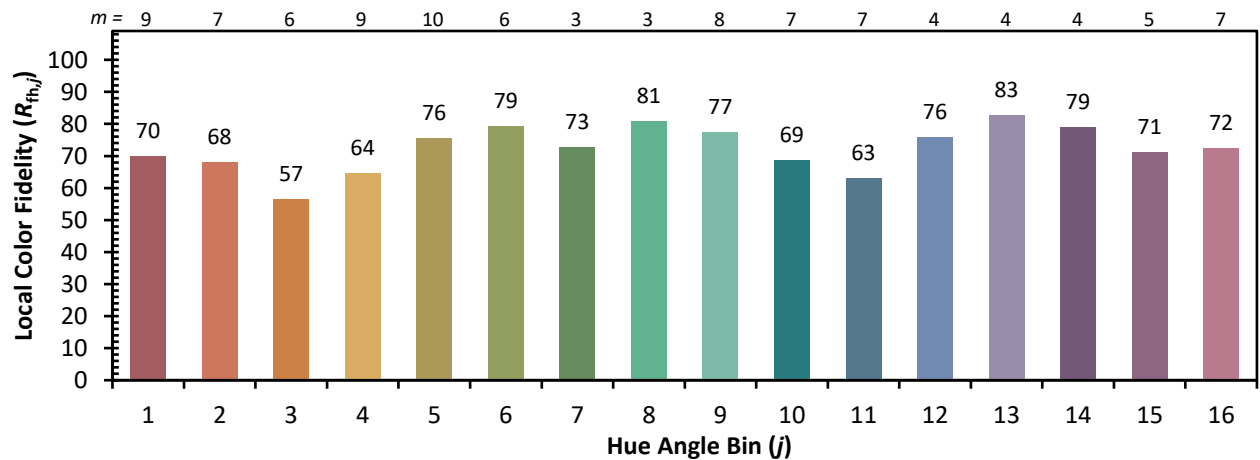
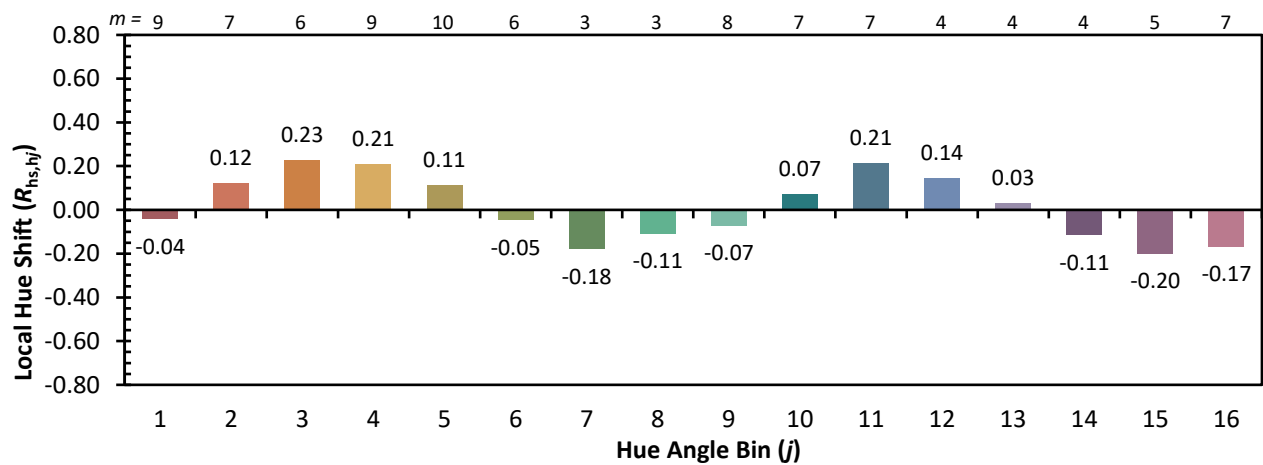
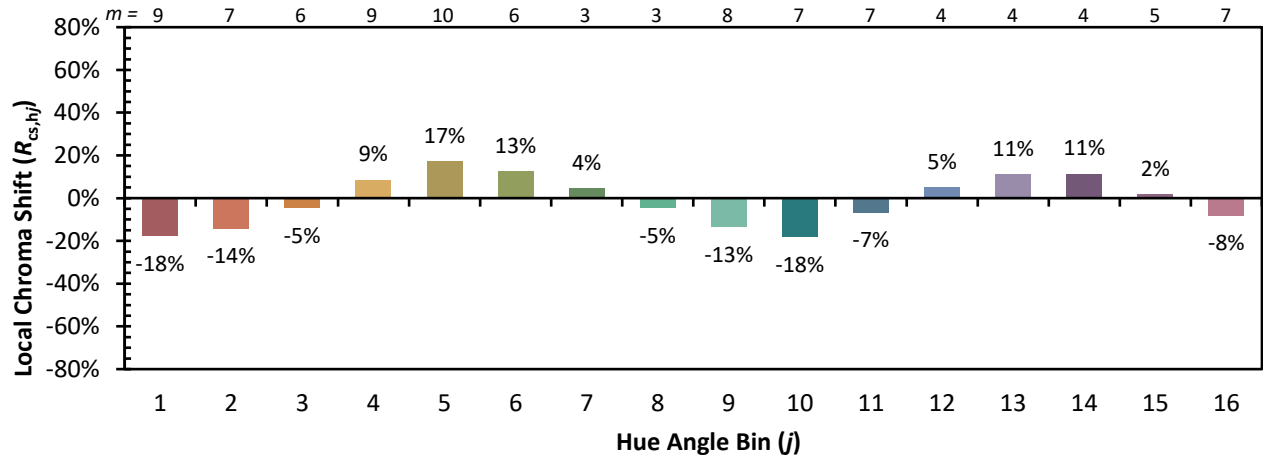


Individual Sample Fidelity Index ($R_{f,i}$)

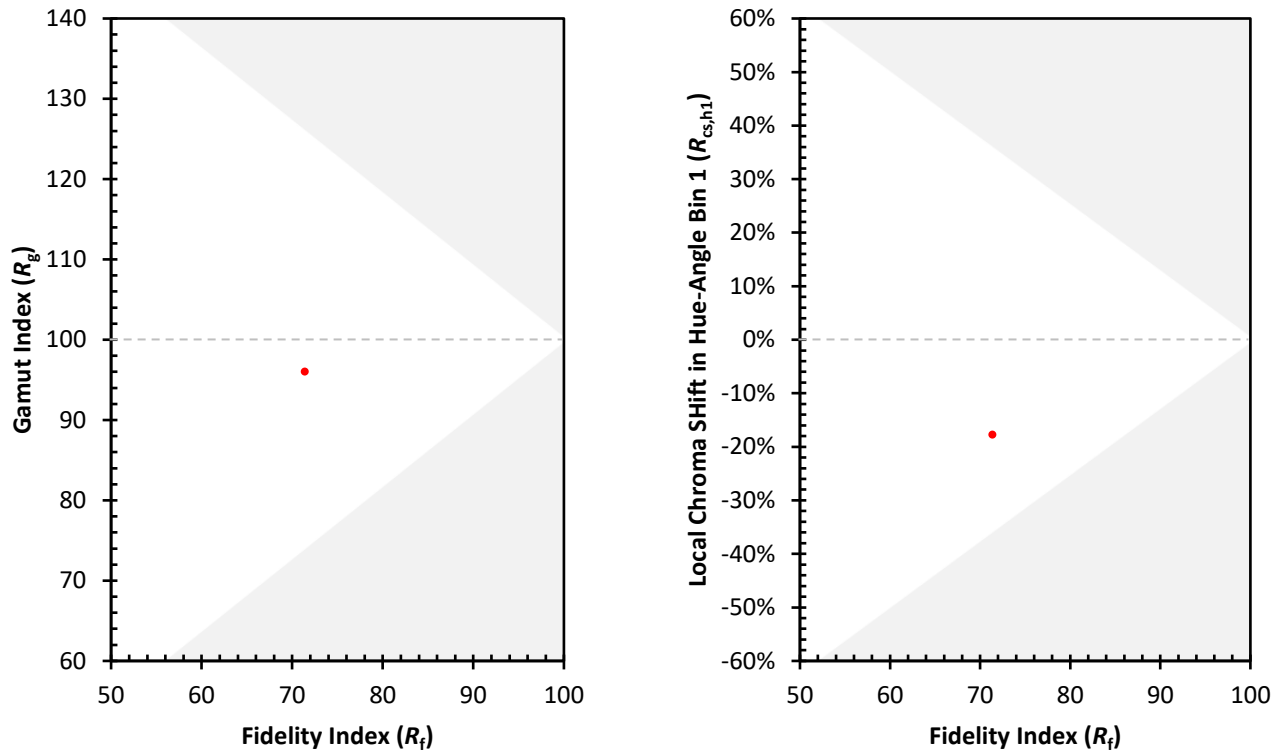
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)