

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: P1049751

Luminaire Tested: **GALN-SA1C-830-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049751
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

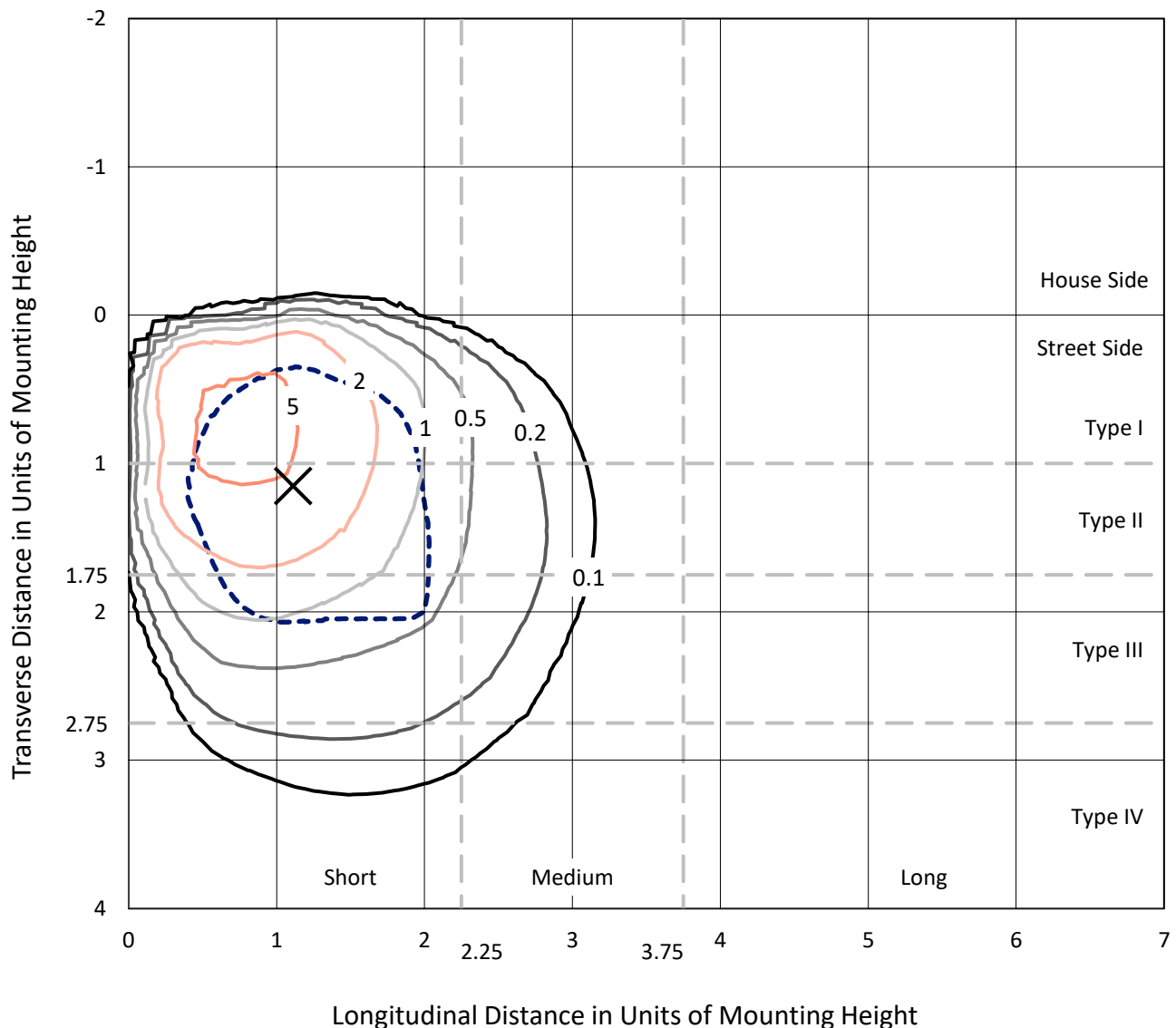
Lumens per Lamp: N/A
Luminaire Lumens: 4664.3 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
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

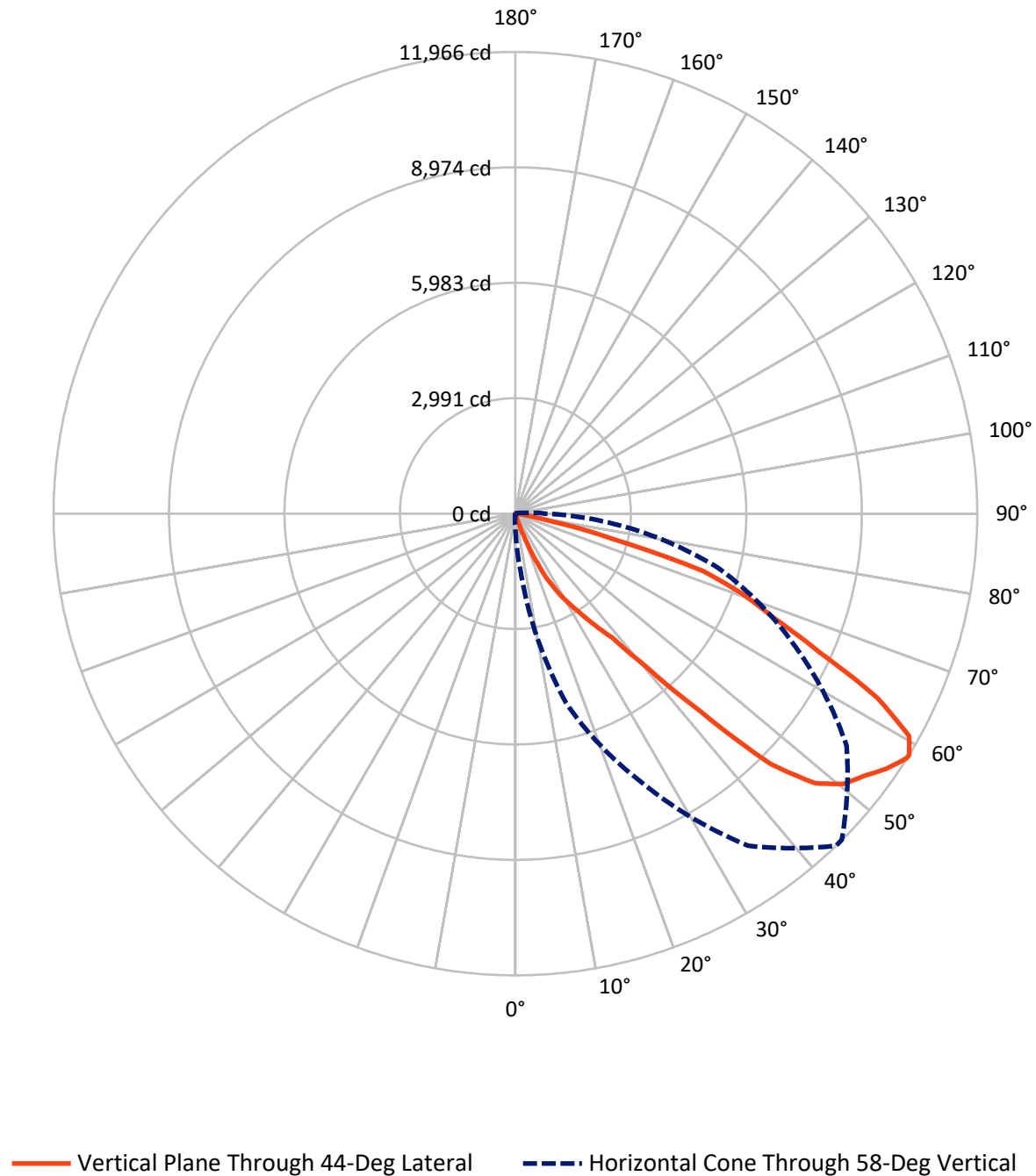
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	31.8	0.0	31.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4632.4	0.0	4632.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	4664.3	0.0	4664.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.0
10°-20°	10.2	0.2
20°-30°	110.5	2.4
30°-40°	326.8	7.0
40°-50°	974.0	20.9
50°-60°	1545.5	33.1
60°-70°	1289.1	27.6
70°-80°	397.6	8.5
80°-90°	8.8	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°	4664.3	100.0
0°-180°	4664.3	100.0



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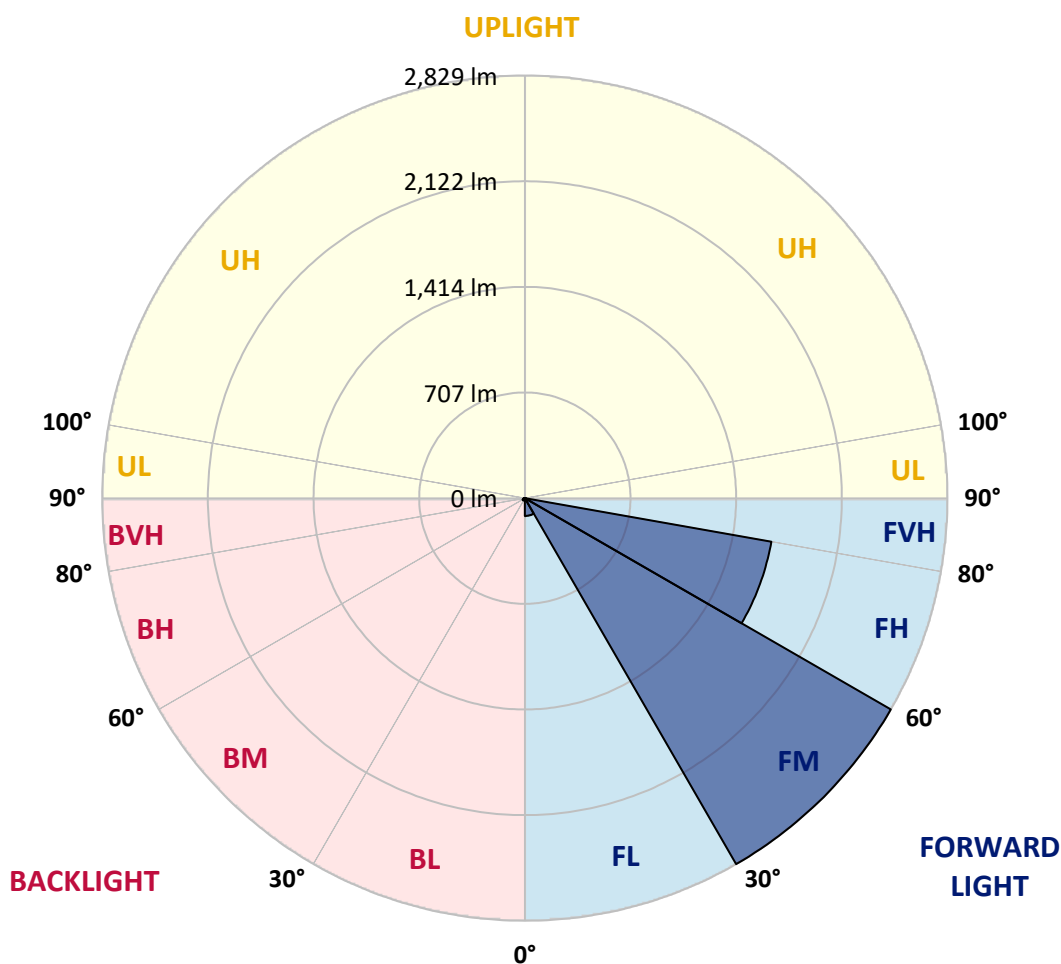
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.4	2.6			
FM	(30°-60°)	2828.8	60.6			
FH	(60°-80°)	1675.8	35.9			G1/1800
FVH	(80°-90°)	8.4	0.2			G0/10
BL	(0°-30°)	3.1	0.1	B0/110		
BM	(30°-60°)	17.4	0.4	B0/220		
BH	(60°-80°)	10.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	26.4	26.4	25.4	24.0	22.6	21.1	20.8	20.1	19.7	19.4
5°	27.5	27.5	27.1	26.1	24.7	23.6	23.6	22.6	21.8	21.1
7.5°	28.2	28.5	29.2	28.9	28.2	27.1	27.1	26.4	25.4	23.6
10°	29.2	30.3	31.7	32.4	32.8	32.8	32.4	32.1	30.3	27.8
12.5°	30.3	32.4	35.9	39.5	41.6	44.4	44.0	43.3	38.8	33.5
15°	32.4	35.6	43.0	53.2	69.1	78.9	82.8	79.3	64.1	45.1
17.5°	34.9	40.2	62.4	111.3	182.5	216.3	236.8	220.2	145.9	85.6
20°	37.3	49.0	115.9	288.6	473.6	584.2	614.8	566.9	364.0	163.1
22.5°	41.6	68.7	235.0	596.5	1020.4	1186.4	1217.7	1064.4	687.4	322.0
25°	50.4	99.7	405.2	972.1	1522.8	1803.0	1789.9	1589.1	1115.2	514.4
27.5°	63.1	145.2	612.7	1381.2	2004.1	2251.1	2280.7	2032.3	1486.6	756.5
30°	81.4	201.2	835.4	1708.9	2390.0	2657.0	2662.0	2405.1	1818.8	969.0
32.5°	99.0	254.0	1030.3	2025.6	2770.2	3063.0	3084.8	2768.7	2066.9	1190.2
35°	112.4	288.6	1227.6	2304.0	3153.5	3556.9	3555.5	3180.3	2360.7	1387.9
37.5°	113.5	323.1	1406.2	2588.7	3639.0	4090.7	4135.5	3721.8	2715.9	1632.4
40°	111.0	361.9	1632.4	3032.6	4513.9	5207.0	5246.4	4725.0	3428.3	2051.0
42.5°	113.8	429.2	1999.6	3852.6	5966.6	6962.0	7038.1	6489.9	4738.0	2905.1
45°	128.6	555.7	2768.7	5224.2	8037.4	9250.9	9225.5	8435.9	6261.9	4205.3
47.5°	177.6	865.4	3908.9	6559.3	9360.8	10441.4	10463.3	9498.2	7151.2	5204.9
50°	273.1	1324.1	4867.0	7265.0	9929.8	11014.0	10993.6	9878.4	7489.1	5697.1
52.5°	355.2	1656.0	5347.6	7512.7	10002.8	11296.9	11295.5	9978.5	7541.6	5739.4
55°	375.6	1681.0	5351.4	7526.1	10166.3	11667.3	11713.8	10224.8	7609.6	5554.7
57.5°	367.5	1488.3	5128.1	7603.6	10457.3	11953.7	11956.2	10463.3	7782.3	5441.6
58°	360.5	1458.0	5083.0	7647.7	10507.3	11965.7	11959.7	10474.2	7922.9	5437.4
60°	321.0	1266.0	4907.1	7760.1	10433.0	11719.8	11663.7	10235.7	7902.1	5394.1
62.5°	252.3	987.6	4734.1	7630.1	9636.0	10529.2	10552.4	9062.0	7203.7	5141.4
65°	200.8	736.1	4373.3	6692.8	7934.9	8646.6	8733.3	7369.0	6012.8	4353.6
67.5°	160.0	532.0	3668.6	5328.5	6278.8	7216.4	7279.5	6186.9	4658.4	3335.7
70°	130.0	359.7	2532.3	3897.0	5178.8	6233.0	6236.9	5139.7	3477.0	2185.6
72.5°	115.2	249.1	1470.0	2842.0	4199.3	5079.1	4976.5	4170.7	2672.2	1294.5
75°	99.7	165.3	720.9	1737.4	2546.1	2563.3	2602.4	1934.7	1335.7	615.5
77.5°	82.1	117.3	284.0	474.6	763.5	977.4	1013.7	768.1	444.3	151.5
80°	56.4	55.7	76.5	145.5	218.5	273.8	255.5	197.7	116.3	58.1
82.5°	24.3	26.4	34.5	41.6	33.8	32.8	31.4	20.1	15.5	12.0
85°	7.8	7.0	7.4	7.4	6.0	4.6	4.6	2.1	0.0	0.0
87.5°	3.9	3.2	3.2	2.8	1.8	0.7	0.4	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°
20.4	0°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
19.0	2.5°	18.7	18.7	18.0	17.3	16.9	16.2	15.9	15.5	15.2	14.8
20.4	5°	19.7	19.4	18.3	17.3	16.2	15.2	14.4	13.7	13.0	12.7
22.6	7.5°	21.5	20.8	18.7	16.9	15.5	14.1	13.4	12.3	11.6	10.6
25.0	10°	23.6	22.2	19.4	17.3	15.2	13.4	12.3	11.3	10.2	8.8
28.5	12.5°	26.4	24.0	20.4	16.9	14.4	12.3	11.3	9.9	8.8	7.8
33.1	15°	28.9	25.7	20.8	16.9	13.7	11.3	9.9	8.5	7.4	6.0
41.6	17.5°	32.4	27.1	20.4	15.9	12.7	9.9	8.5	7.4	5.6	3.5
61.7	20°	38.4	28.2	19.7	14.8	10.9	8.1	6.3	4.9	2.5	0.7
92.7	22.5°	47.9	31.0	19.0	13.4	9.5	6.3	4.2	1.8	0.0	0.0
140.9	25°	66.2	35.9	19.0	12.7	8.5	4.6	1.4	0.0	0.0	0.0
200.1	27.5°	88.1	42.6	19.0	10.9	6.7	2.5	0.0	0.0	0.0	0.0
272.7	30°	110.3	50.0	19.0	9.5	5.3	0.4	0.0	0.0	0.0	0.0
335.8	32.5°	131.4	56.4	19.4	8.1	3.5	0.0	0.0	0.0	0.0	0.0
423.2	35°	152.9	57.4	19.0	7.0	2.1	0.0	0.0	0.0	0.0	0.0
530.3	37.5°	180.4	55.3	18.0	6.3	1.1	0.0	0.0	0.0	0.0	0.0
697.6	40°	222.0	56.4	16.9	6.0	0.4	0.0	0.0	0.0	0.0	0.0
996.1	42.5°	298.8	61.0	15.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
1586.6	45°	516.5	81.7	14.1	6.3	0.0	0.0	0.0	0.0	0.0	0.0
2381.9	47.5°	854.4	146.9	13.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
2869.2	50°	1090.5	185.0	14.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
2930.1	52.5°	1088.8	206.1	15.2	7.0	1.4	0.0	0.0	0.0	0.0	0.0
2700.7	55°	967.9	210.0	16.2	7.8	4.6	0.0	0.0	0.0	0.0	0.0
2320.9	57.5°	809.0	191.7	18.7	9.5	8.5	0.0	0.0	0.0	0.0	0.0
2261.4	58°	780.8	183.2	19.4	9.9	9.2	0.0	0.0	0.0	0.0	0.0
1961.5	60°	639.9	149.4	24.7	12.3	12.3	0.0	0.0	0.0	0.0	0.0
1608.1	62.5°	441.8	130.4	28.2	15.9	12.7	0.0	0.0	0.0	0.0	0.0
1185.6	65°	312.5	117.7	30.7	16.9	10.2	0.0	0.0	0.0	0.0	0.0
842.5	67.5°	233.6	108.5	33.8	17.3	5.3	0.0	0.0	0.0	0.0	0.0
528.5	70°	179.0	101.8	41.6	18.3	1.4	0.0	0.0	0.0	0.0	0.0
315.0	72.5°	145.9	94.1	50.4	19.0	0.0	0.0	0.0	0.0	0.0	0.0
188.9	75°	120.9	84.9	48.6	20.8	0.0	0.0	0.0	0.0	0.0	0.0
100.8	77.5°	80.3	65.9	44.4	20.8	0.0	0.0	0.0	0.0	0.0	0.0
35.9	80°	28.2	26.1	34.5	18.3	0.0	0.0	0.0	0.0	0.0	0.0
7.4	82.5°	4.2	3.5	4.9	6.3	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°
20.4	0°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
14.4	2.5°	14.4	14.4	14.1	14.4	14.4	15.2	16.9	19.4	22.2	23.3
12.3	5°	12.0	11.6	11.3	11.3	11.3	12.3	13.7	16.6	19.7	21.1
10.2	7.5°	9.9	9.5	9.2	8.8	8.8	9.5	11.3	14.4	17.6	19.0
8.5	10°	8.1	7.4	7.0	6.7	6.7	7.4	9.2	12.3	15.9	17.3
7.0	12.5°	6.7	5.6	4.9	4.6	4.2	5.3	7.0	9.9	13.7	15.5
5.3	15°	4.6	3.5	2.5	2.1	1.8	2.8	4.6	7.8	11.6	13.7
2.8	17.5°	2.5	1.1	0.4	0.0	0.0	0.7	2.1	5.6	9.5	11.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	7.0	8.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.2	6.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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	1.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8
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°
20.4	0°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
24.3	2.5°	25.0	24.7	24.0	23.3	23.3	23.3	24.3	25.4	26.4	26.4
21.8	5°	23.3	23.3	22.9	22.2	22.2	22.6	24.0	25.7	27.1	27.5
20.1	7.5°	21.5	22.2	21.5	21.1	21.5	21.8	23.3	25.4	27.5	28.2
18.7	10°	20.4	20.8	20.8	20.4	20.4	21.1	22.6	25.4	28.2	29.2
16.9	12.5°	19.0	19.7	19.4	19.4	19.4	20.1	21.8	25.0	28.9	30.3
15.2	15°	17.6	18.7	18.7	18.3	18.3	18.7	21.1	24.7	29.9	32.4
13.0	17.5°	16.2	17.3	17.6	16.9	16.9	17.6	20.1	24.7	30.7	34.9
10.6	20°	13.4	15.2	16.2	15.2	15.2	15.9	18.3	23.3	31.0	37.3
7.8	22.5°	10.6	12.3	13.7	13.4	13.4	13.7	16.9	22.2	31.4	41.6
4.6	25°	7.8	9.5	10.6	11.3	11.3	12.3	15.5	21.5	32.8	50.4
2.1	27.5°	4.6	6.7	8.1	8.8	9.2	10.6	14.4	20.8	35.2	63.1
0.0	30°	2.1	3.9	5.6	7.0	7.0	9.5	13.4	20.1	38.4	81.4
0.0	32.5°	0.0	1.8	2.8	4.9	5.3	7.8	12.3	19.4	43.0	99.0
0.0	35°	0.0	0.0	1.4	3.9	3.9	6.3	11.3	18.7	50.0	112.4
0.0	37.5°	0.0	0.0	0.0	2.8	3.2	5.6	10.9	18.3	51.4	113.5
0.0	40°	0.0	0.0	0.0	2.1	2.5	5.3	10.9	18.7	46.5	111.0
0.0	42.5°	0.0	0.0	0.0	1.4	1.8	5.3	10.9	19.4	41.9	113.8
0.0	45°	0.0	0.0	0.0	1.1	1.4	5.6	10.6	19.0	39.5	128.6
0.0	47.5°	0.0	0.0	0.0	1.4	2.1	5.6	10.2	18.7	39.8	177.6
0.0	50°	0.0	0.0	0.0	1.8	2.5	5.6	10.6	18.0	43.7	273.1
0.0	52.5°	0.0	0.0	0.0	1.4	2.1	6.3	11.6	17.6	47.6	355.2
0.0	55°	0.0	0.0	0.0	0.4	1.1	8.1	12.7	17.6	53.6	375.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	9.2	14.4	18.7	63.4	367.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	9.2	14.8	18.7	64.1	360.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	9.2	16.2	20.8	69.1	321.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	7.8	19.4	26.1	71.9	252.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.3	22.9	28.5	74.0	200.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.0	23.6	28.9	75.0	160.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.3	23.3	31.0	78.6	130.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.0	21.1	34.2	78.6	115.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	7.4	19.7	38.4	71.5	99.7
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.0	19.4	44.7	63.8	82.1
0.0	80°	0.7	1.1	1.1	0.7	0.7	6.0	19.0	45.5	54.3	56.4
0.4	82.5°	2.1	2.8	2.5	1.8	1.8	5.3	16.9	38.1	28.2	24.3
2.1	85°	3.9	4.6	4.6	3.9	3.9	4.9	10.6	13.7	9.5	7.8
3.9	87.5°	5.3	6.0	6.0	5.3	5.3	4.9	4.6	4.2	3.9	3.9
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

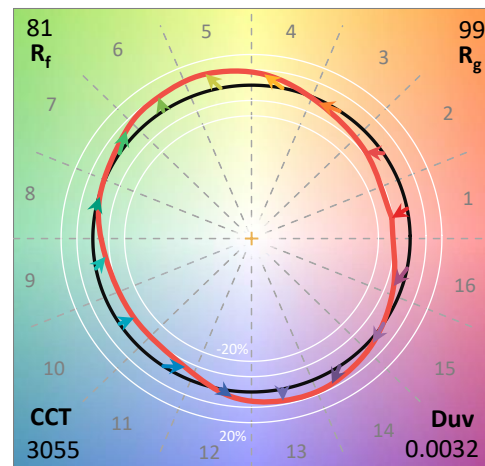
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

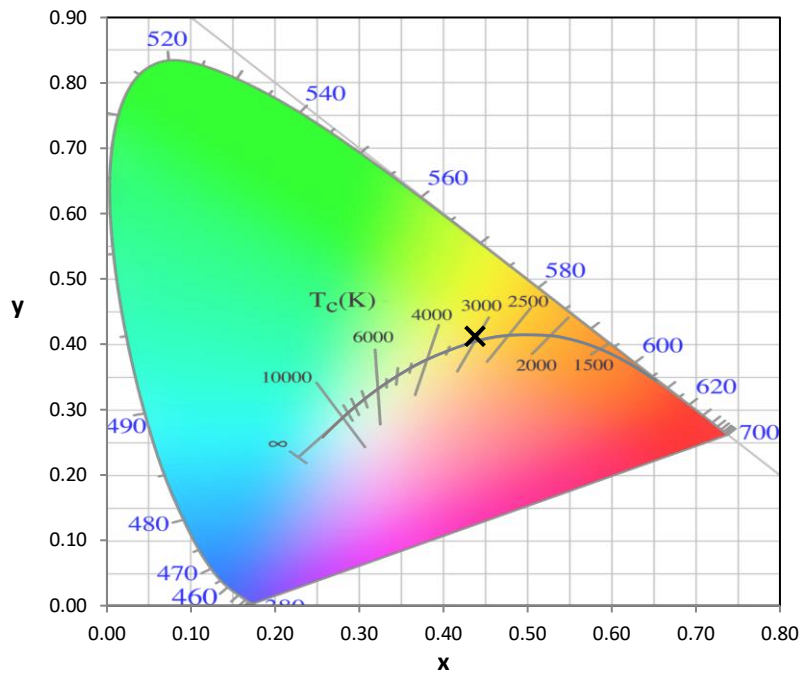
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

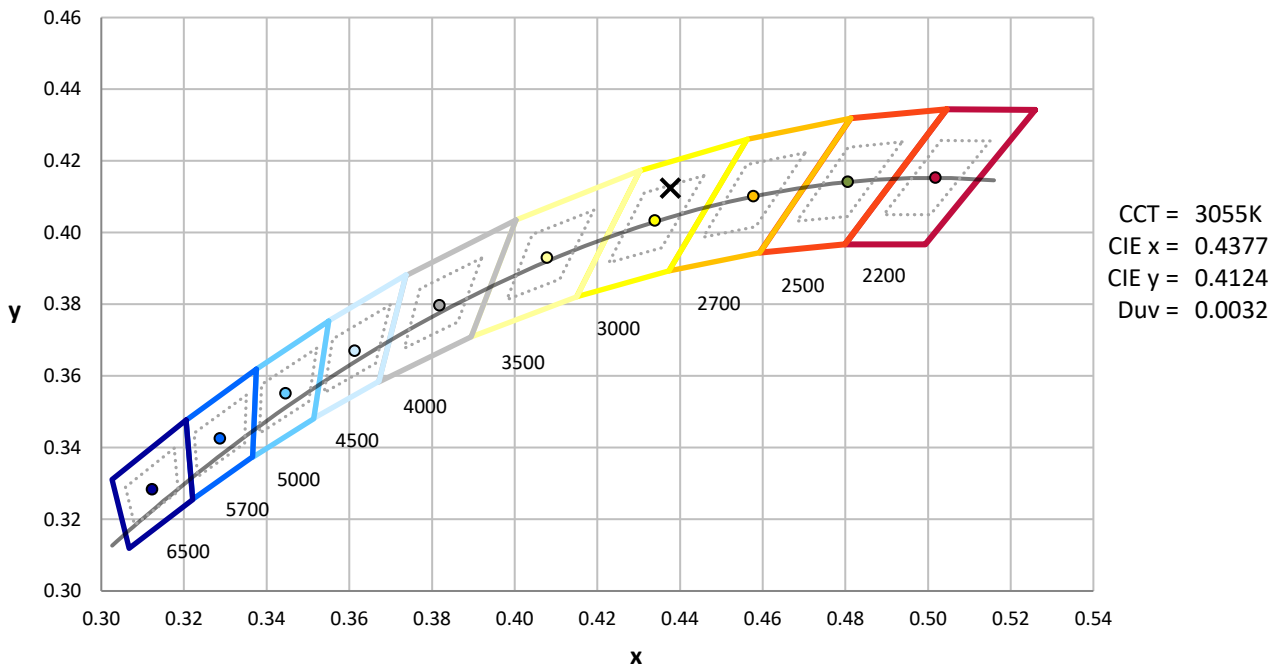
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



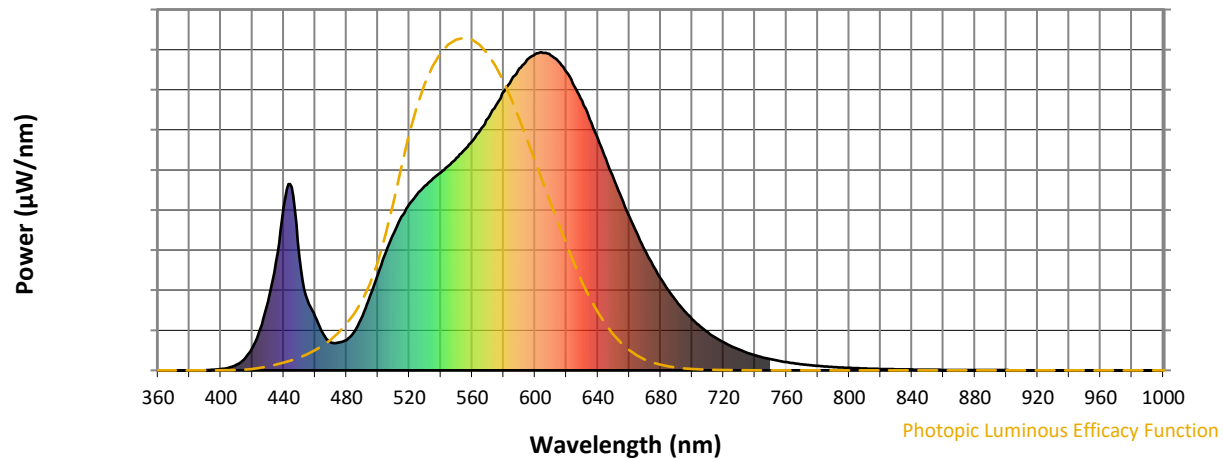
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

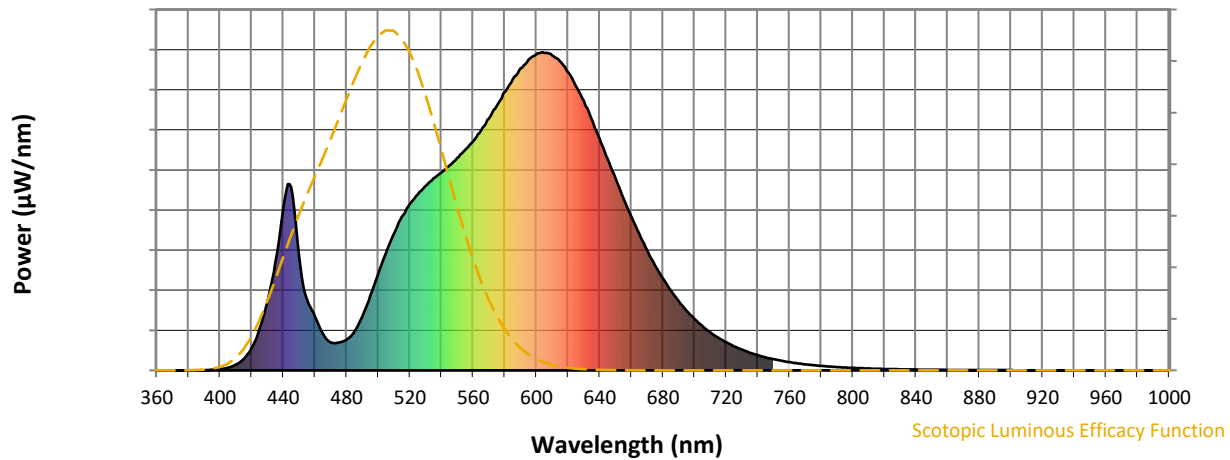


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



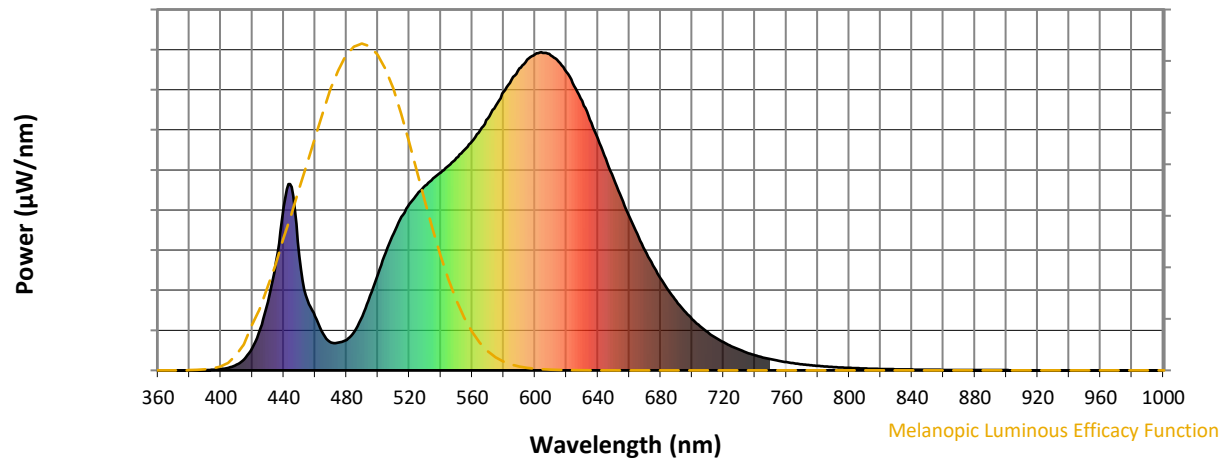
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

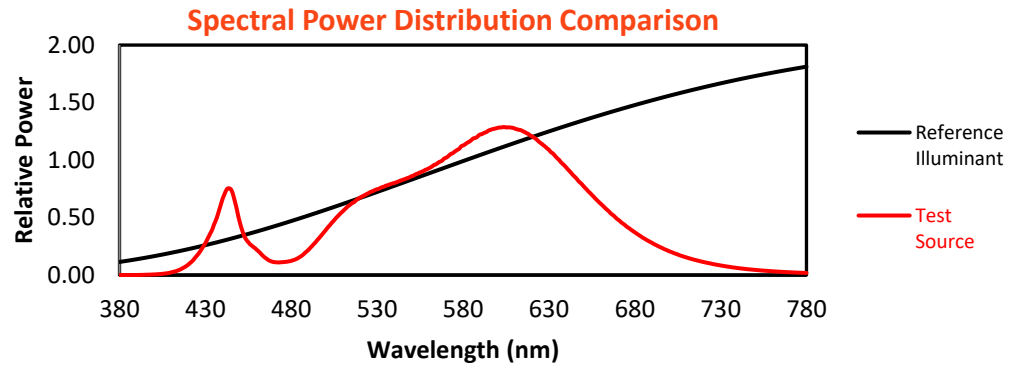
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

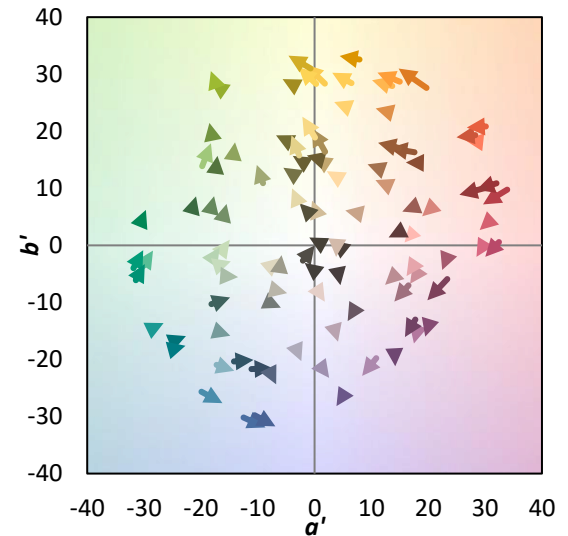
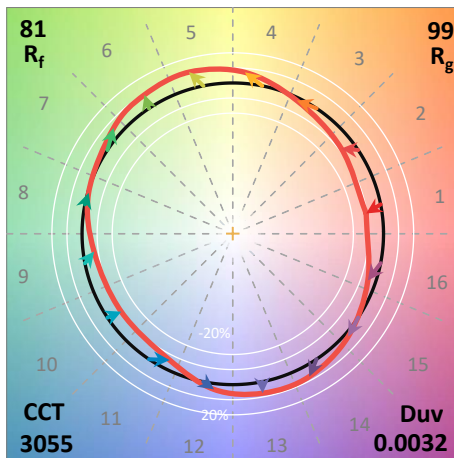
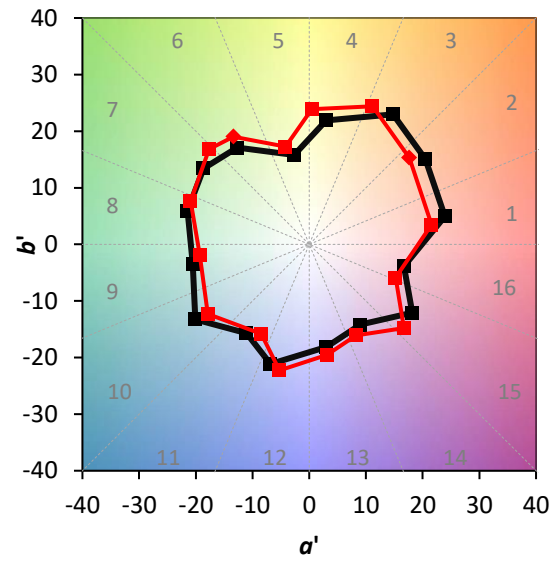
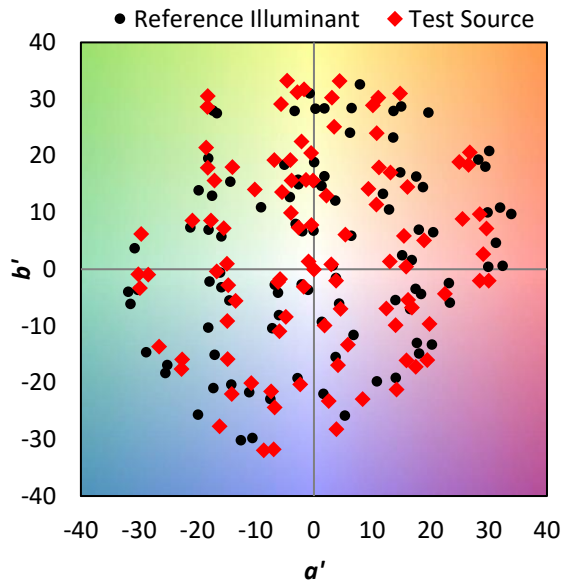
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

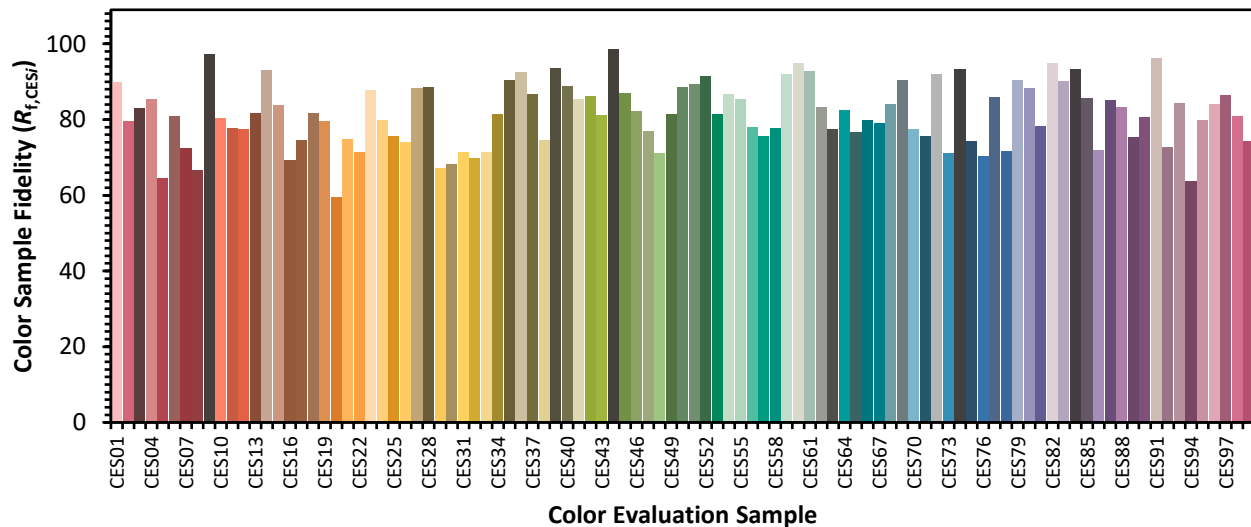


Color Vector Graphics

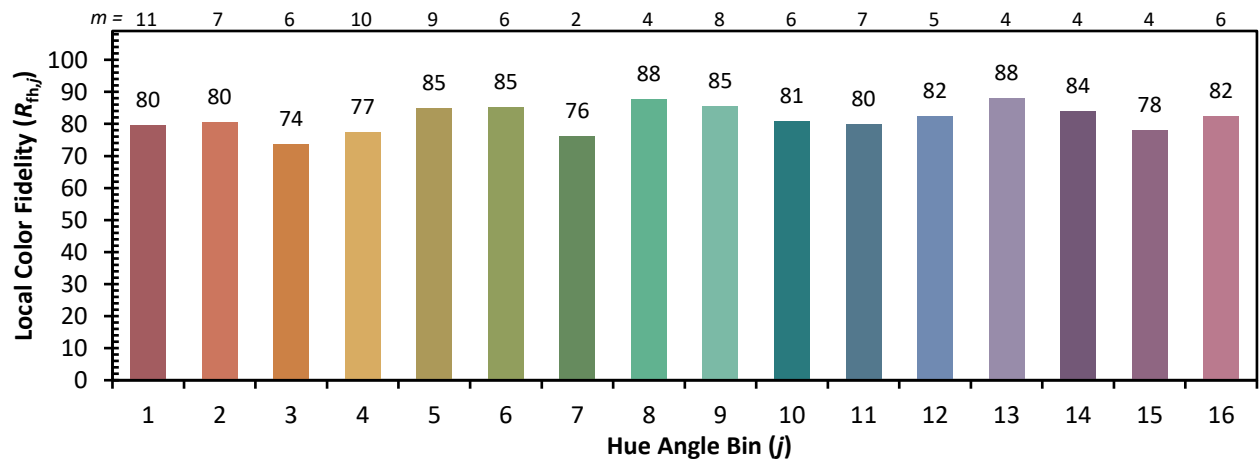
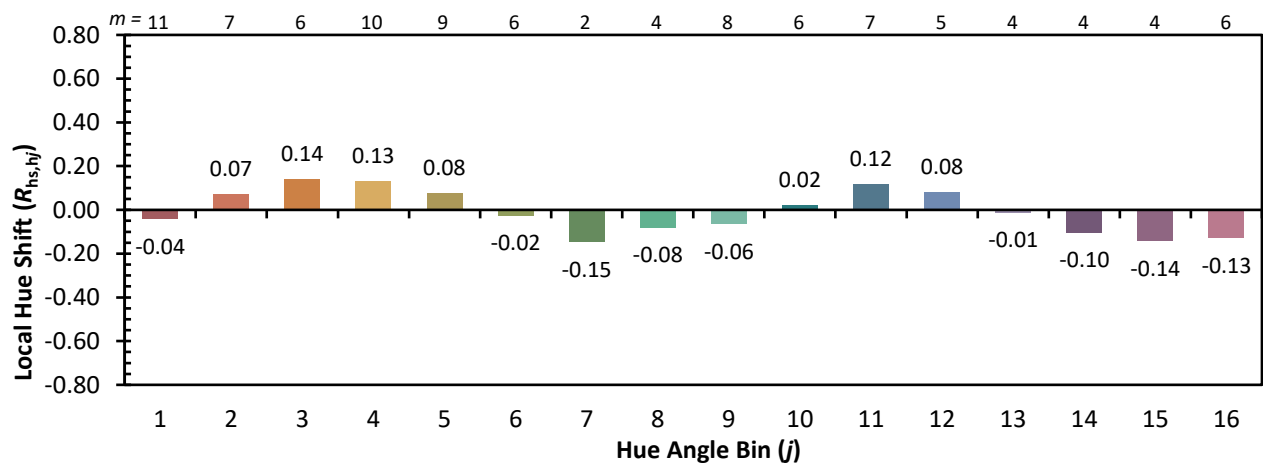
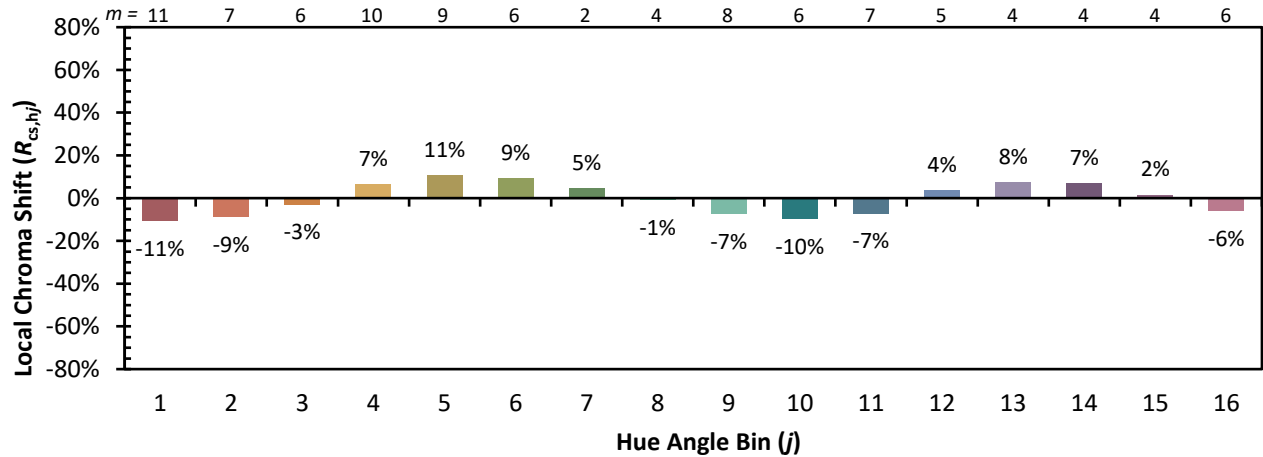


Individual Sample Fidelity Index ($R_{f,i}$)

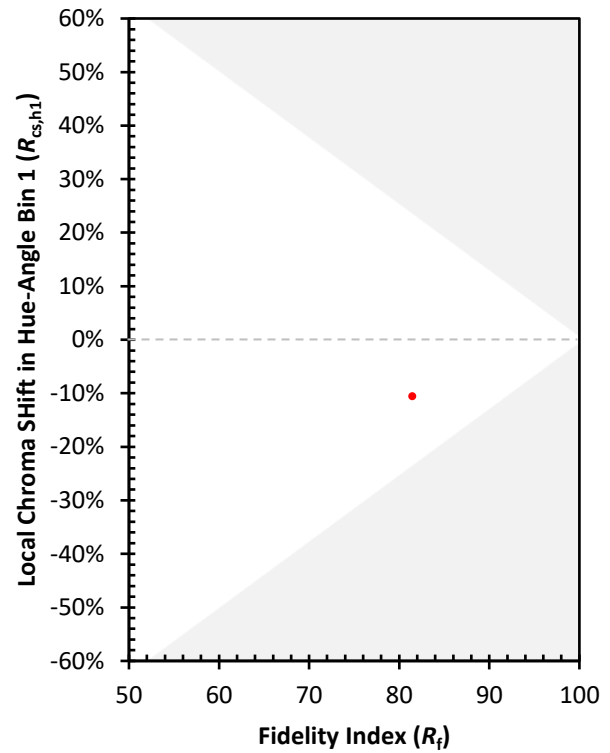
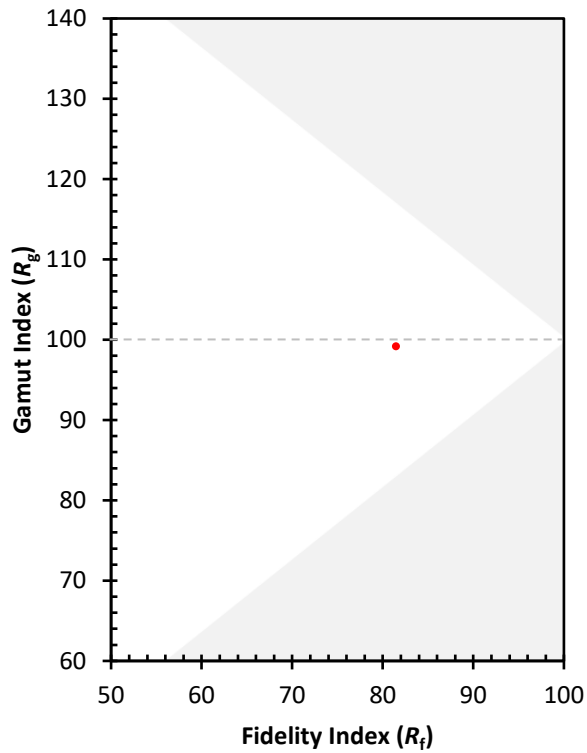
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)