

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: P1049654

Luminaire Tested: **GALN-SA4B-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049654
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 4xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (56) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16511.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

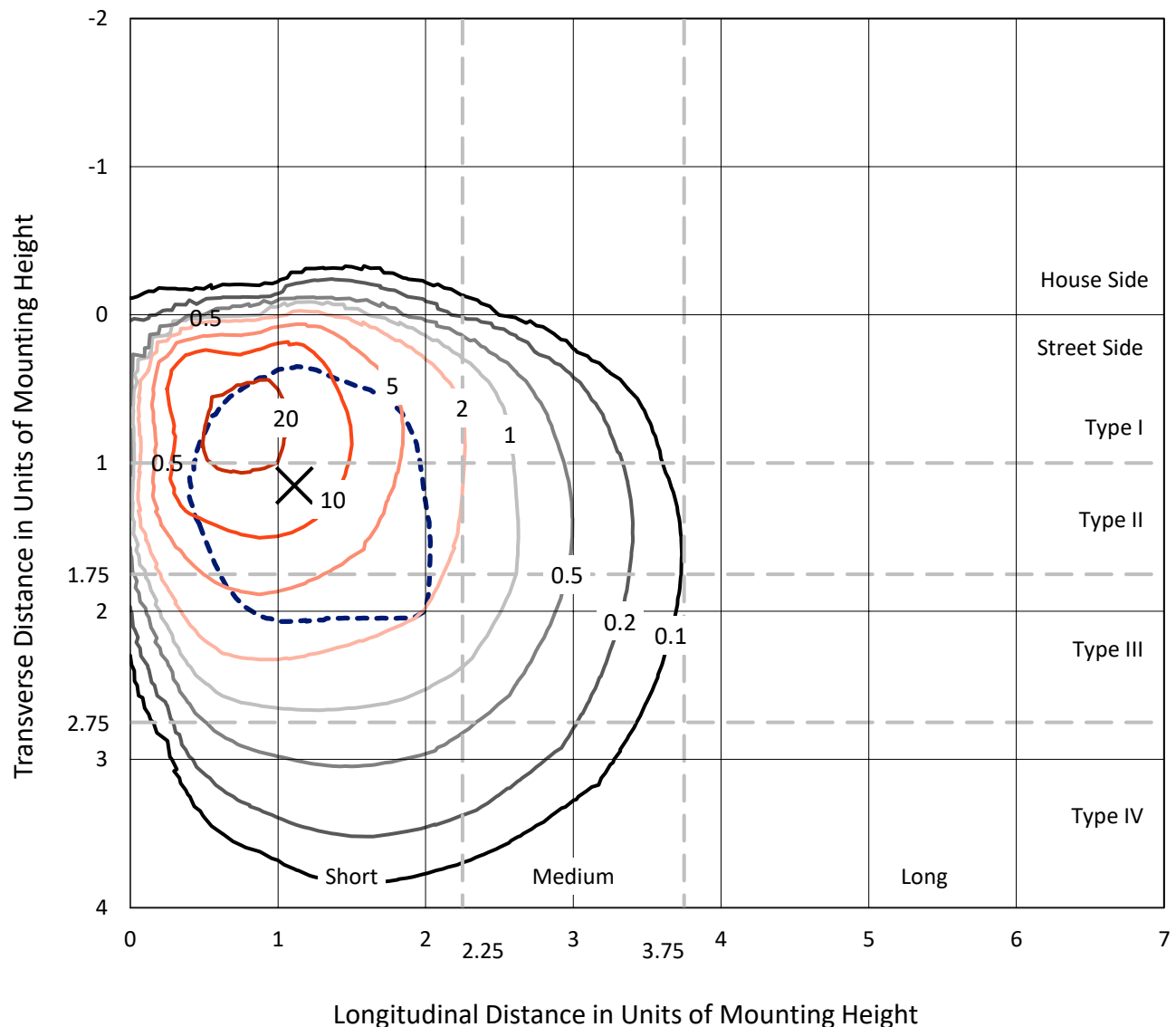
Input Watts (W): 144.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

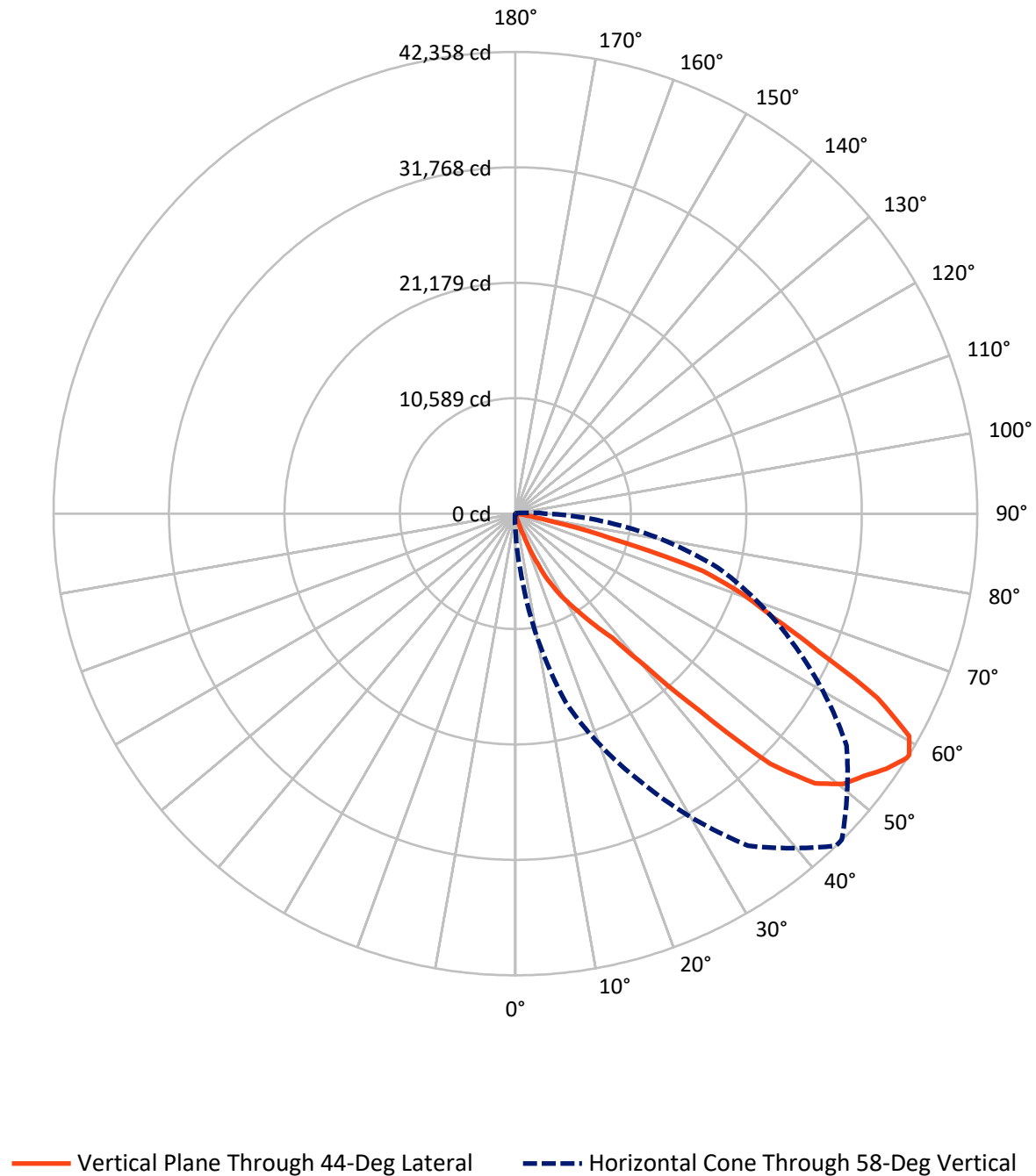
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.7 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	112.7	0.0	112.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	16398.5	0.0	16398.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	16511.2	0.0	16511.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.0
10°-20°	36.2	0.2
20°-30°	391.2	2.4
30°-40°	1156.8	7.0
40°-50°	3447.8	20.9
50°-60°	5470.8	33.1
60°-70°	4563.3	27.6
70°-80°	1407.4	8.5
80°-90°	31.3	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°	16511.2	100.0
0°-180°	16511.2	100.0

Coefficient of Utilization



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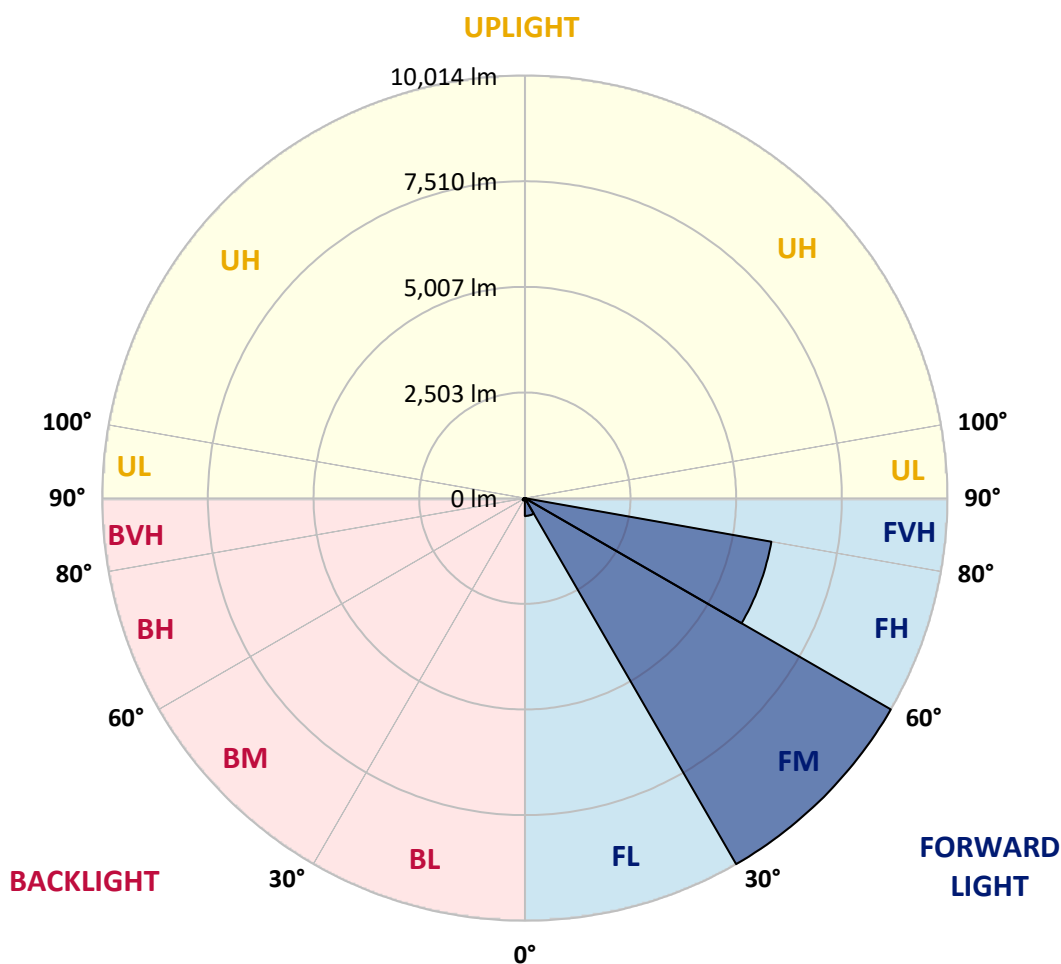
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.8	2.6			
FM	(30°-60°)	10013.7	60.6			
FH	(60°-80°)	5932.2	35.9			G3/7500
FVH	(80°-90°)	29.7	0.2			G1/100
BL	(0°-30°)	11.0	0.1	B0/110		
BM	(30°-60°)	61.7	0.4	B0/220		
BH	(60°-80°)	38.5	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°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2.5°	93.5	93.5	89.8	84.8	79.8	74.8	73.6	71.1	69.8	68.6
5°	97.3	97.3	96.0	92.3	87.3	83.6	83.6	79.8	77.3	74.8
7.5°	99.8	101.0	103.5	102.3	99.8	96.0	96.0	93.5	89.8	83.6
10°	103.5	107.3	112.3	114.8	116.0	116.0	114.8	113.5	107.3	98.5
12.5°	107.3	114.8	127.2	139.7	147.2	157.2	155.9	153.4	137.2	118.5
15°	114.8	126.0	152.2	188.3	244.5	279.4	293.1	280.6	227.0	159.7
17.5°	123.5	142.2	220.8	394.1	646.1	765.8	838.2	779.6	516.4	303.1
20°	132.2	173.4	410.4	1021.5	1676.3	2068.0	2176.5	2006.9	1288.4	577.5
22.5°	147.2	243.2	831.9	2111.7	3612.1	4199.6	4310.6	3768.0	2433.5	1140.0
25°	178.4	353.0	1434.4	3441.3	5390.8	6382.4	6336.2	5625.2	3947.7	1821.0
27.5°	223.3	513.9	2169.0	4889.4	7094.5	7968.9	8073.7	7194.3	5262.3	2677.9
30°	288.1	712.2	2957.3	6049.3	8460.3	9405.8	9423.2	8514.0	6438.5	3430.0
32.5°	350.5	899.3	3647.1	7170.6	9806.1	10842.6	10920.0	9801.2	7316.6	4213.3
35°	397.9	1021.5	4345.5	8156.0	11163.2	12591.3	12586.3	11258.0	8356.8	4913.1
37.5°	401.6	1143.8	4977.9	9163.8	12881.9	14481.0	14639.4	13175.1	9614.1	5778.7
40°	392.9	1281.0	5778.7	10735.4	15979.0	18432.4	18572.1	16726.1	12136.1	7260.4
42.5°	402.9	1519.2	7078.3	13637.8	21121.5	24645.1	24914.5	22973.7	16772.2	10283.9
45°	455.3	1967.0	9801.2	18493.5	28451.8	32747.4	32657.6	29862.5	22166.7	14886.3
47.5°	628.6	3063.3	13837.4	23219.4	33136.6	36962.0	37039.3	33623.0	25314.9	18424.9
50°	966.6	4687.3	17228.7	25717.7	35150.9	38988.8	38916.5	34968.8	26511.0	20167.3
52.5°	1257.3	5862.2	18930.0	26594.6	35409.1	39990.4	39985.4	35323.1	26696.9	20317.0
55°	1329.6	5950.8	18943.7	26642.0	35987.9	41301.3	41465.9	36194.9	26937.6	19663.4
57.5°	1300.9	5268.5	18153.0	26916.4	37018.1	42315.3	42324.1	37039.3	27548.8	19263.0
58°	1276.0	5161.3	17993.3	27072.3	37195.2	42357.8	42336.5	37078.0	28046.4	19248.1
60°	1136.3	4481.5	17370.9	27470.2	36932.1	41487.1	41288.8	36233.6	27972.8	19094.7
62.5°	893.1	3496.1	16758.5	27009.9	34110.7	37272.6	37354.9	32078.9	25500.7	18200.4
65°	711.0	2605.6	15481.3	23692.2	28088.8	30608.3	30915.2	26085.7	21284.9	15411.4
67.5°	566.3	1883.4	12986.7	18862.7	22226.6	25545.6	25768.9	21901.1	16490.3	11808.0
70°	460.2	1273.5	8964.2	13795.0	18332.6	22064.4	22078.2	18194.1	12308.2	7736.9
72.5°	407.9	881.8	5203.7	10060.6	14865.1	17979.6	17616.6	14764.1	9459.4	4582.5
75°	353.0	585.0	2551.9	6150.4	9012.9	9074.0	9212.4	6848.8	4728.5	2179.0
77.5°	290.6	415.3	1005.3	1680.1	2702.9	3460.0	3588.4	2719.1	1572.8	536.3
80°	199.6	197.1	270.7	515.1	773.3	969.1	904.3	699.7	411.6	205.8
82.5°	86.1	93.5	122.2	147.2	119.7	116.0	111.0	71.1	54.9	42.4
85°	27.4	24.9	26.2	26.2	21.2	16.2	16.2	7.5	0.0	0.0
87.5°	13.7	11.2	11.2	10.0	6.2	2.5	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°
72.3	0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
67.4	2.5°	66.1	66.1	63.6	61.1	59.9	57.4	56.1	54.9	53.6	52.4
72.3	5°	69.8	68.6	64.9	61.1	57.4	53.6	51.1	48.6	46.1	44.9
79.8	7.5°	76.1	73.6	66.1	59.9	54.9	49.9	47.4	43.7	41.2	37.4
88.6	10°	83.6	78.6	68.6	61.1	53.6	47.4	43.7	39.9	36.2	31.2
101.0	12.5°	93.5	84.8	72.3	59.9	51.1	43.7	39.9	34.9	31.2	27.4
117.2	15°	102.3	91.1	73.6	59.9	48.6	39.9	34.9	29.9	26.2	21.2
147.2	17.5°	114.8	96.0	72.3	56.1	44.9	34.9	29.9	26.2	20.0	12.5
218.3	20°	136.0	99.8	69.8	52.4	38.7	28.7	22.5	17.5	8.7	2.5
328.0	22.5°	169.6	109.8	67.4	47.4	33.7	22.5	15.0	6.2	0.0	0.0
498.9	25°	234.5	127.2	67.4	44.9	29.9	16.2	5.0	0.0	0.0	0.0
708.5	27.5°	311.8	150.9	67.4	38.7	23.7	8.7	0.0	0.0	0.0	0.0
965.4	30°	390.4	177.1	67.4	33.7	18.7	1.2	0.0	0.0	0.0	0.0
1188.7	32.5°	465.2	199.6	68.6	28.7	12.5	0.0	0.0	0.0	0.0	0.0
1498.0	35°	541.3	203.3	67.4	24.9	7.5	0.0	0.0	0.0	0.0	0.0
1877.2	37.5°	638.6	195.8	63.6	22.5	3.7	0.0	0.0	0.0	0.0	0.0
2469.6	40°	785.8	199.6	59.9	21.2	1.2	0.0	0.0	0.0	0.0	0.0
3526.1	42.5°	1057.7	215.8	54.9	21.2	0.0	0.0	0.0	0.0	0.0	0.0
5616.5	45°	1828.5	289.4	49.9	22.5	0.0	0.0	0.0	0.0	0.0	0.0
8431.6	47.5°	3024.7	520.1	48.6	22.5	0.0	0.0	0.0	0.0	0.0	0.0
10156.6	50°	3860.3	654.8	51.1	23.7	0.0	0.0	0.0	0.0	0.0	0.0
10372.4	52.5°	3854.1	729.7	53.6	24.9	5.0	0.0	0.0	0.0	0.0	0.0
9560.4	55°	3426.3	743.4	57.4	27.4	16.2	0.0	0.0	0.0	0.0	0.0
8215.9	57.5°	2863.8	678.5	66.1	33.7	29.9	0.0	0.0	0.0	0.0	0.0
8005.1	58°	2764.0	648.6	68.6	34.9	32.4	0.0	0.0	0.0	0.0	0.0
6943.6	60°	2265.1	528.8	87.3	43.7	43.7	0.0	0.0	0.0	0.0	0.0
5692.6	62.5°	1564.1	461.5	99.8	56.1	44.9	0.0	0.0	0.0	0.0	0.0
4197.1	65°	1106.3	416.6	108.5	59.9	36.2	0.0	0.0	0.0	0.0	0.0
2982.3	67.5°	826.9	384.2	119.7	61.1	18.7	0.0	0.0	0.0	0.0	0.0
1870.9	70°	633.6	360.5	147.2	64.9	5.0	0.0	0.0	0.0	0.0	0.0
1115.1	72.5°	516.4	333.0	178.4	67.4	0.0	0.0	0.0	0.0	0.0	0.0
668.5	75°	427.8	300.6	172.1	73.6	0.0	0.0	0.0	0.0	0.0	0.0
356.7	77.5°	284.4	233.2	157.2	73.6	0.0	0.0	0.0	0.0	0.0	0.0
127.2	80°	99.8	92.3	122.2	64.9	0.0	0.0	0.0	0.0	0.0	0.0
26.2	82.5°	15.0	12.5	17.5	22.5	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°
72.3	0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
51.1	2.5°	51.1	51.1	49.9	51.1	51.1	53.6	59.9	68.6	78.6	82.3
43.7	5°	42.4	41.2	39.9	39.9	39.9	43.7	48.6	58.6	69.8	74.8
36.2	7.5°	34.9	33.7	32.4	31.2	31.2	33.7	39.9	51.1	62.4	67.4
29.9	10°	28.7	26.2	24.9	23.7	23.7	26.2	32.4	43.7	56.1	61.1
24.9	12.5°	23.7	20.0	17.5	16.2	15.0	18.7	24.9	34.9	48.6	54.9
18.7	15°	16.2	12.5	8.7	7.5	6.2	10.0	16.2	27.4	41.2	48.6
10.0	17.5°	8.7	3.7	1.2	0.0	0.0	2.5	7.5	20.0	33.7	39.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	24.9	31.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	15.0	21.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	11.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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	5.0	10.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
72.3	0°	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
86.1	2.5°	88.6	87.3	84.8	82.3	82.3	82.3	86.1	89.8	93.5	93.5
77.3	5°	82.3	82.3	81.1	78.6	78.6	79.8	84.8	91.1	96.0	97.3
71.1	7.5°	76.1	78.6	76.1	74.8	76.1	77.3	82.3	89.8	97.3	99.8
66.1	10°	72.3	73.6	73.6	72.3	72.3	74.8	79.8	89.8	99.8	103.5
59.9	12.5°	67.4	69.8	68.6	68.6	68.6	71.1	77.3	88.6	102.3	107.3
53.6	15°	62.4	66.1	66.1	64.9	64.9	66.1	74.8	87.3	106.0	114.8
46.1	17.5°	57.4	61.1	62.4	59.9	59.9	62.4	71.1	87.3	108.5	123.5
37.4	20°	47.4	53.6	57.4	53.6	53.6	56.1	64.9	82.3	109.8	132.2
27.4	22.5°	37.4	43.7	48.6	47.4	47.4	48.6	59.9	78.6	111.0	147.2
16.2	25°	27.4	33.7	37.4	39.9	39.9	43.7	54.9	76.1	116.0	178.4
7.5	27.5°	16.2	23.7	28.7	31.2	32.4	37.4	51.1	73.6	124.7	223.3
0.0	30°	7.5	13.7	20.0	24.9	24.9	33.7	47.4	71.1	136.0	288.1
0.0	32.5°	0.0	6.2	10.0	17.5	18.7	27.4	43.7	68.6	152.2	350.5
0.0	35°	0.0	0.0	5.0	13.7	13.7	22.5	39.9	66.1	177.1	397.9
0.0	37.5°	0.0	0.0	0.0	10.0	11.2	20.0	38.7	64.9	182.1	401.6
0.0	40°	0.0	0.0	0.0	7.5	8.7	18.7	38.7	66.1	164.6	392.9
0.0	42.5°	0.0	0.0	0.0	5.0	6.2	18.7	38.7	68.6	148.4	402.9
0.0	45°	0.0	0.0	0.0	3.7	5.0	20.0	37.4	67.4	139.7	455.3
0.0	47.5°	0.0	0.0	0.0	5.0	7.5	20.0	36.2	66.1	140.9	628.6
0.0	50°	0.0	0.0	0.0	6.2	8.7	20.0	37.4	63.6	154.7	966.6
0.0	52.5°	0.0	0.0	0.0	5.0	7.5	22.5	41.2	62.4	168.4	1257.3
0.0	55°	0.0	0.0	0.0	1.2	3.7	28.7	44.9	62.4	189.6	1329.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	32.4	51.1	66.1	224.5	1300.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	32.4	52.4	66.1	227.0	1276.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	32.4	57.4	73.6	244.5	1136.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	27.4	68.6	92.3	254.4	893.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	22.5	81.1	101.0	261.9	711.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	21.2	83.6	102.3	265.7	566.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	22.5	82.3	109.8	278.1	460.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.9	74.8	121.0	278.1	407.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	26.2	69.8	136.0	253.2	353.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.9	68.6	158.4	225.8	290.6
0.0	80°	2.5	3.7	3.7	2.5	2.5	21.2	67.4	160.9	192.1	199.6
1.2	82.5°	7.5	10.0	8.7	6.2	6.2	18.7	59.9	134.7	99.8	86.1
7.5	85°	13.7	16.2	16.2	13.7	13.7	17.5	37.4	48.6	33.7	27.4
13.7	87.5°	18.7	21.2	21.2	18.7	18.7	17.5	16.2	15.0	13.7	13.7
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

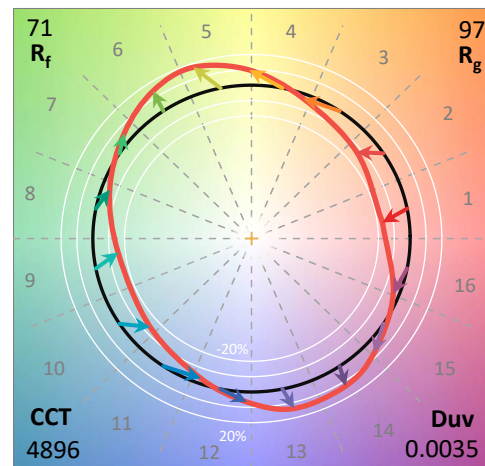
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

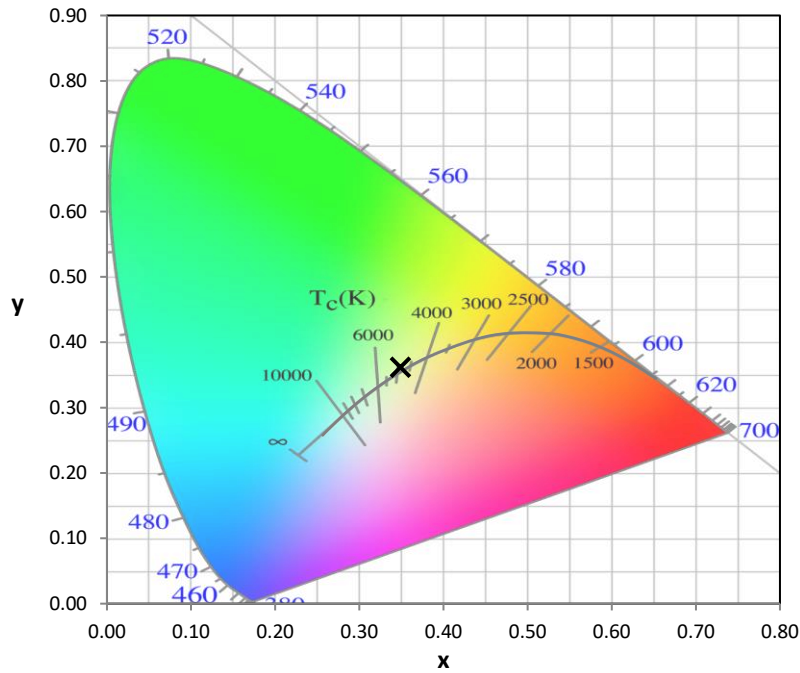
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

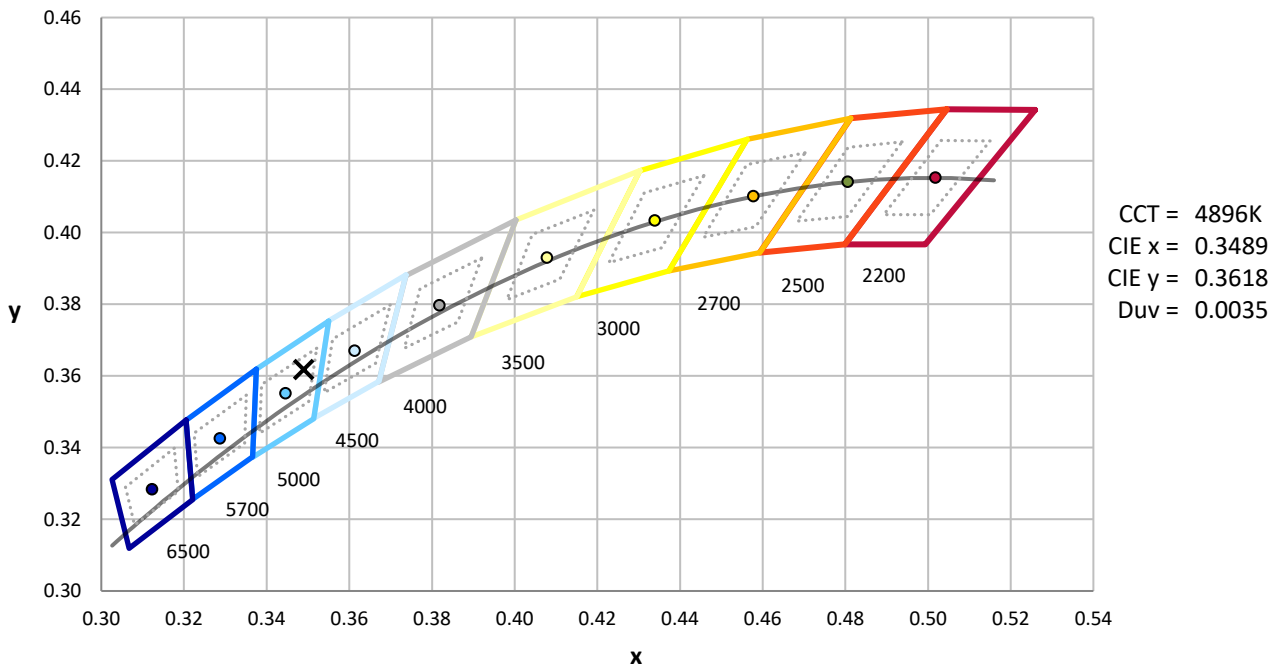
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



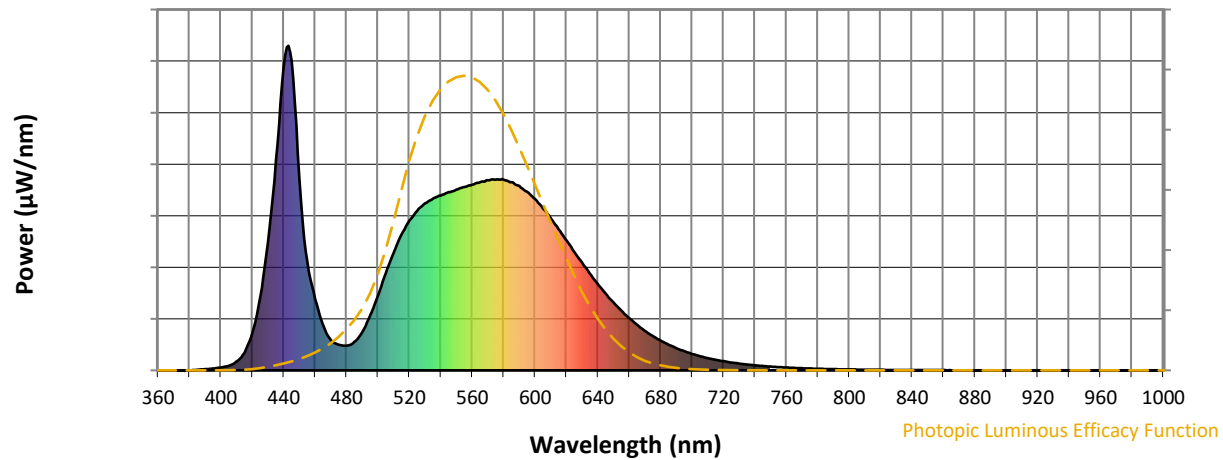
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

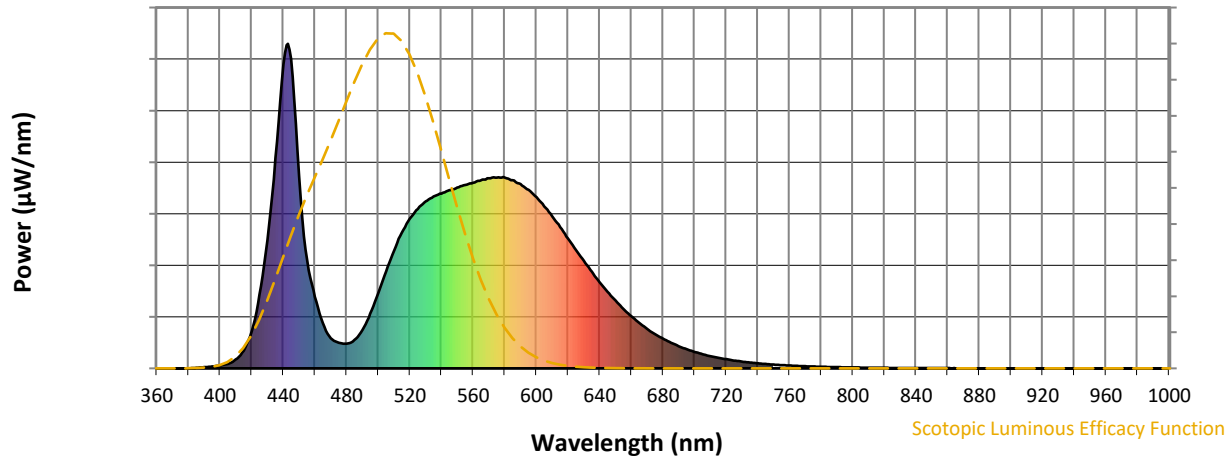


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



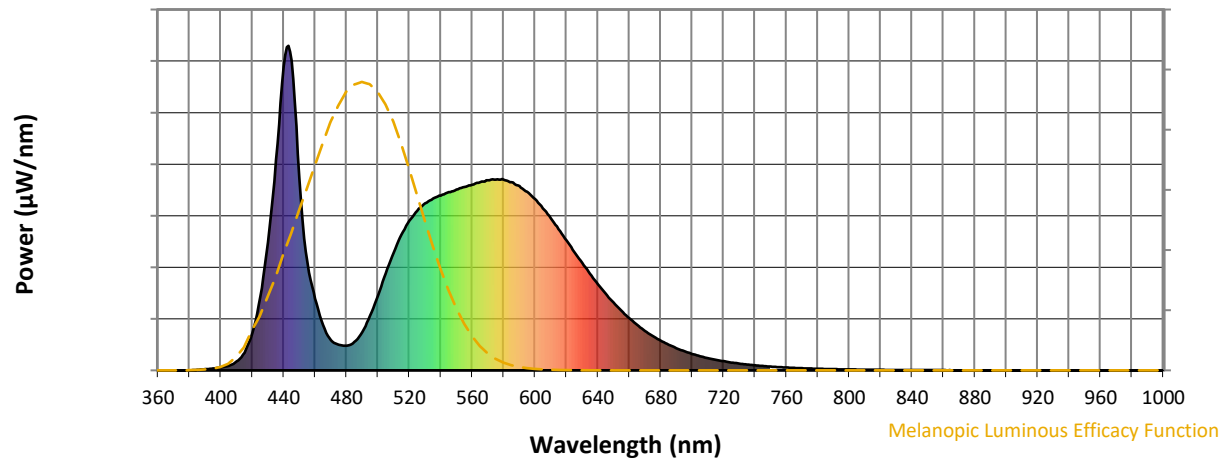
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

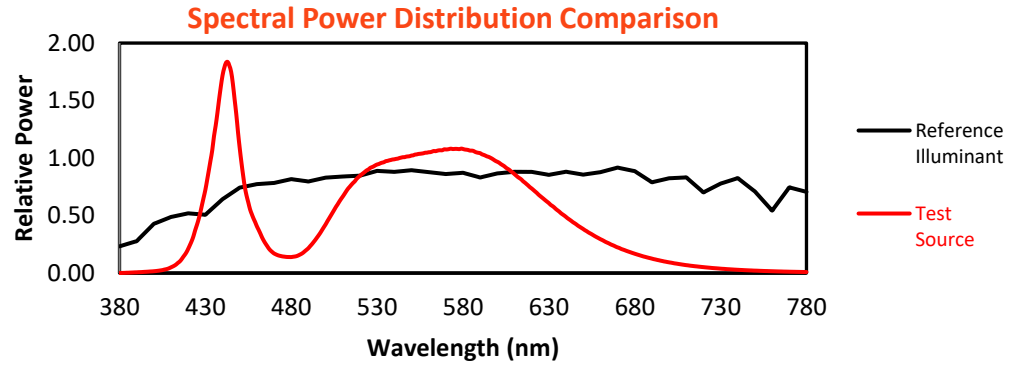
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

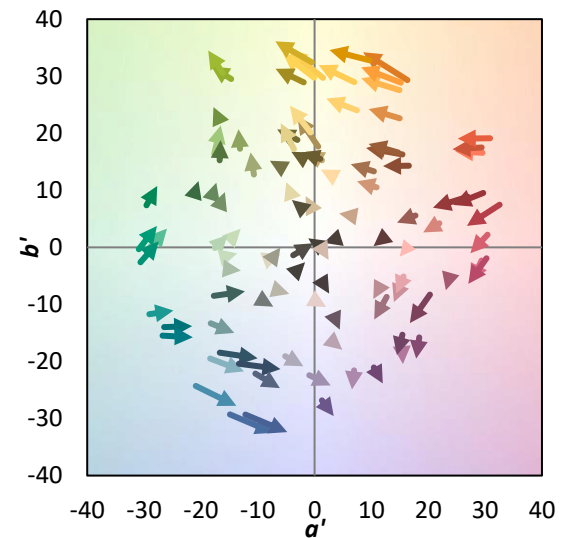
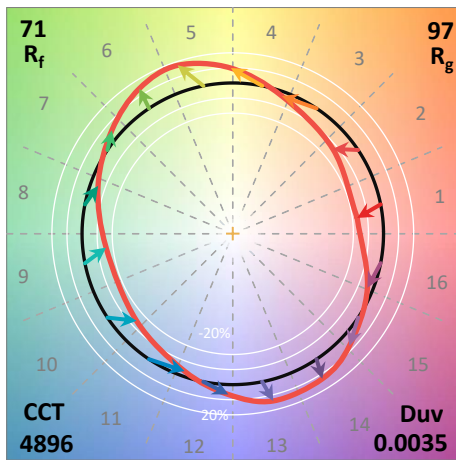
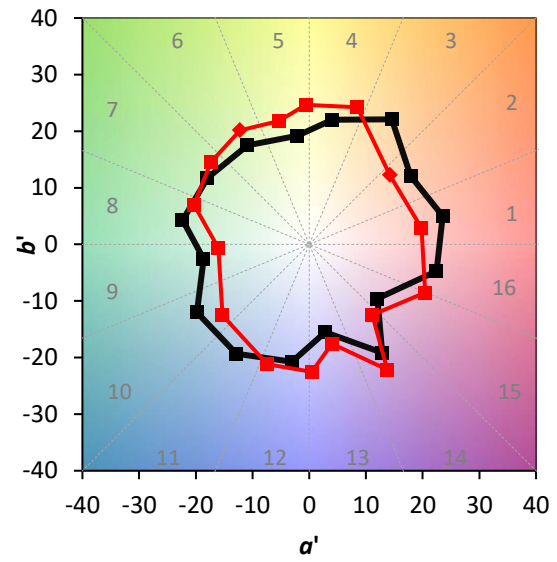
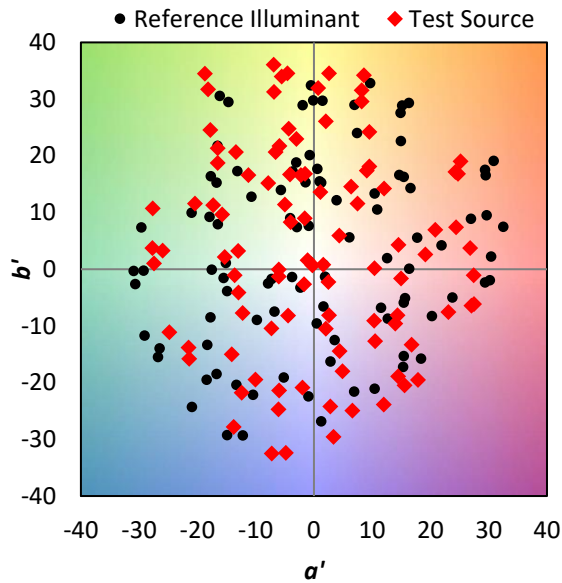
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_g = -35.1$

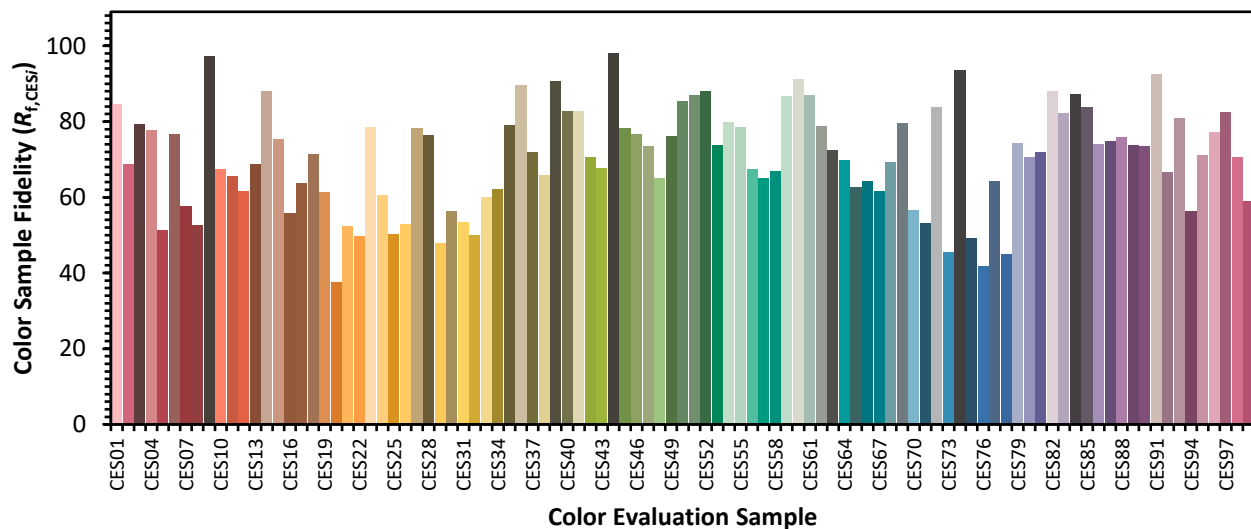


Color Vector Graphics

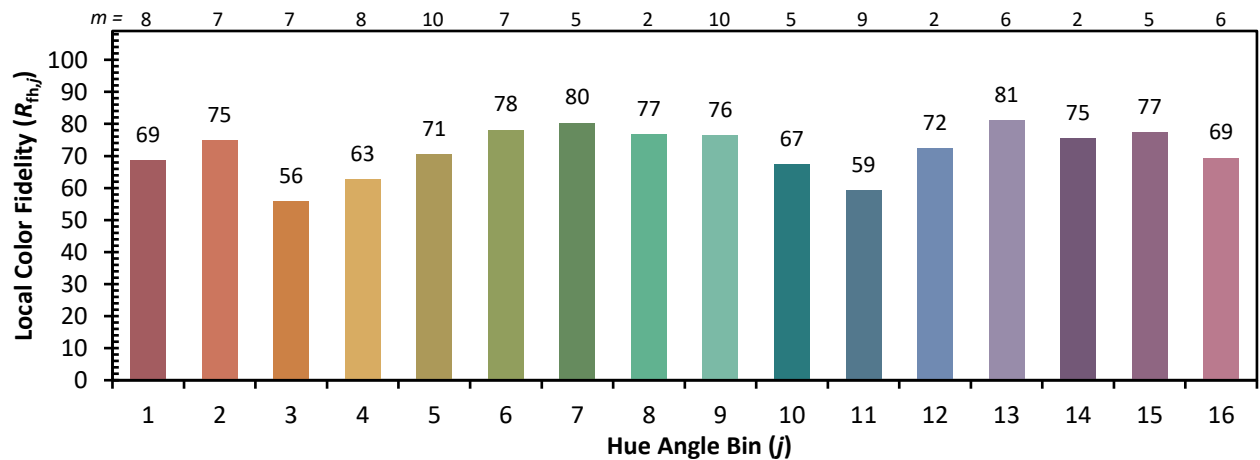
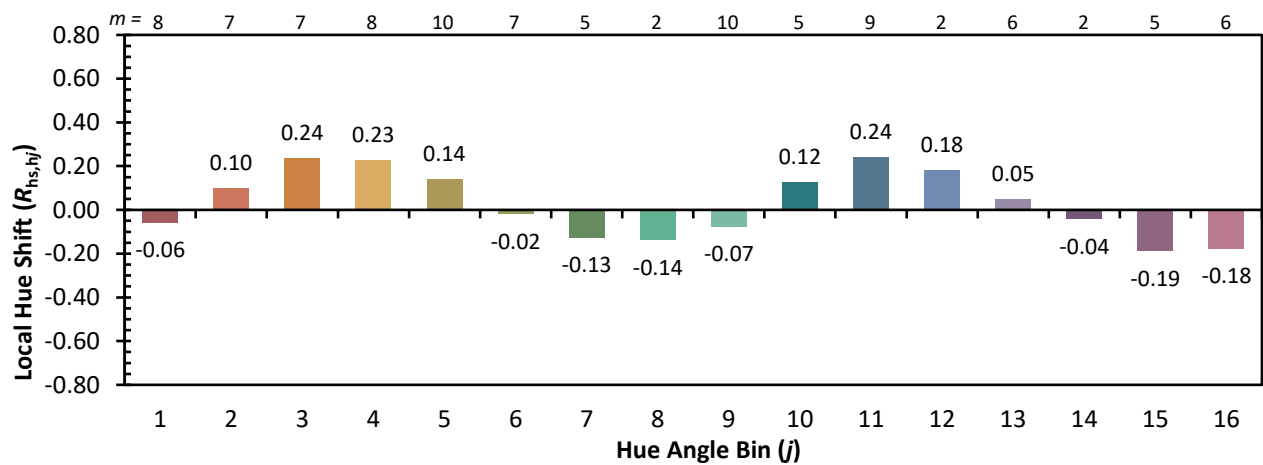
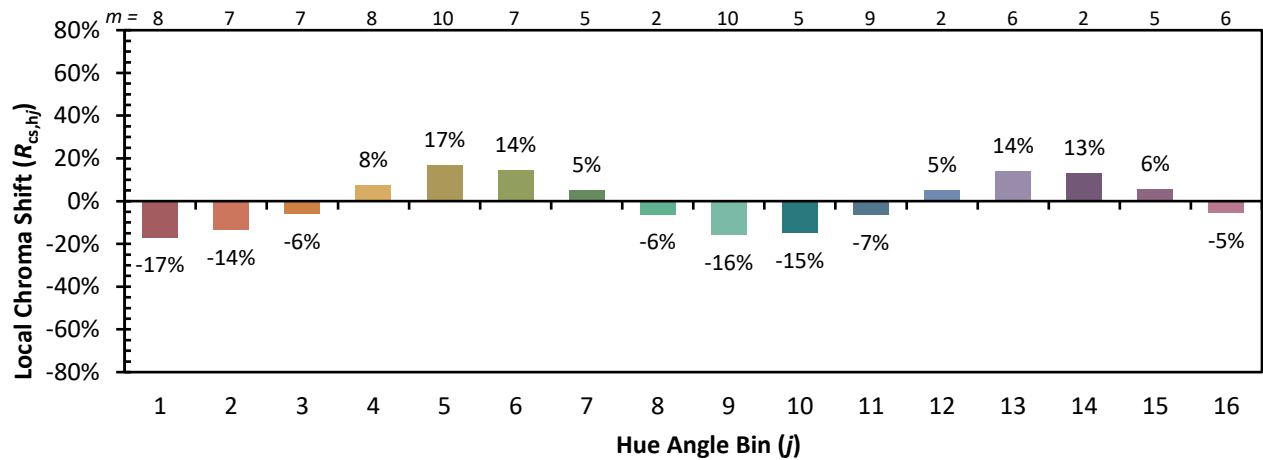


Individual Sample Fidelity Index ($R_{f,i}$)

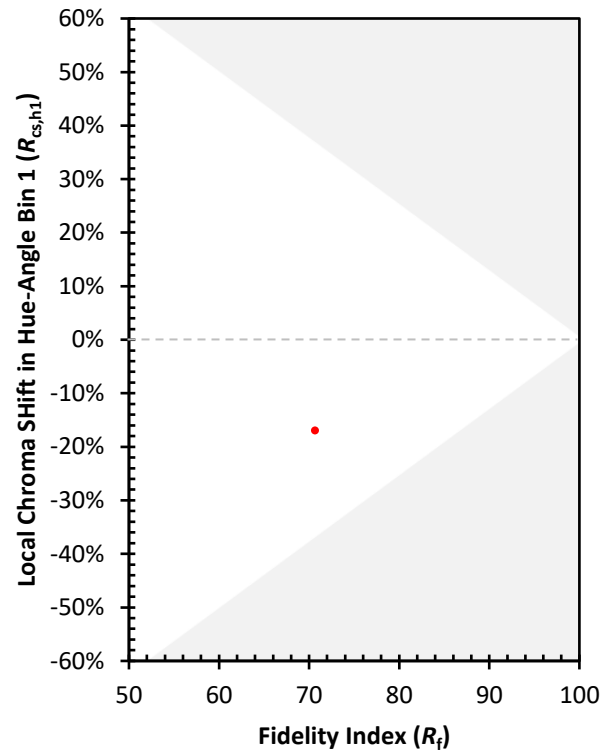
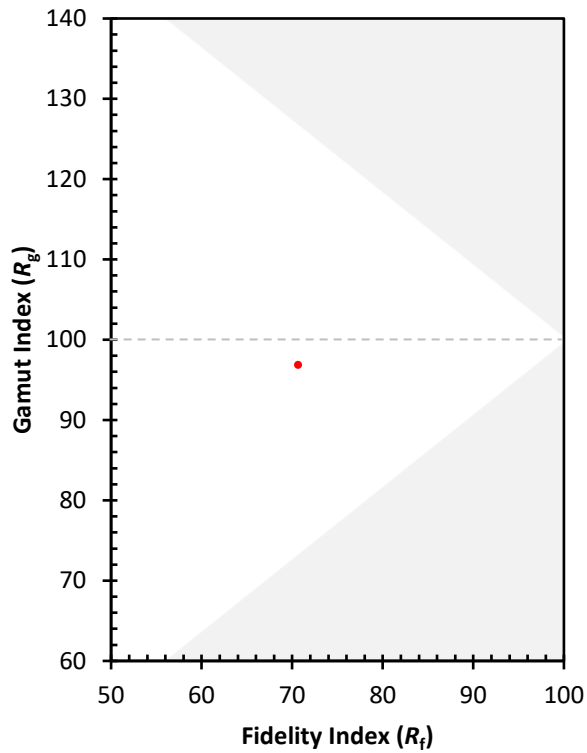
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)