

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: P1049649

Luminaire Tested: **GALN-SA3A-750-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049649
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10055.3 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

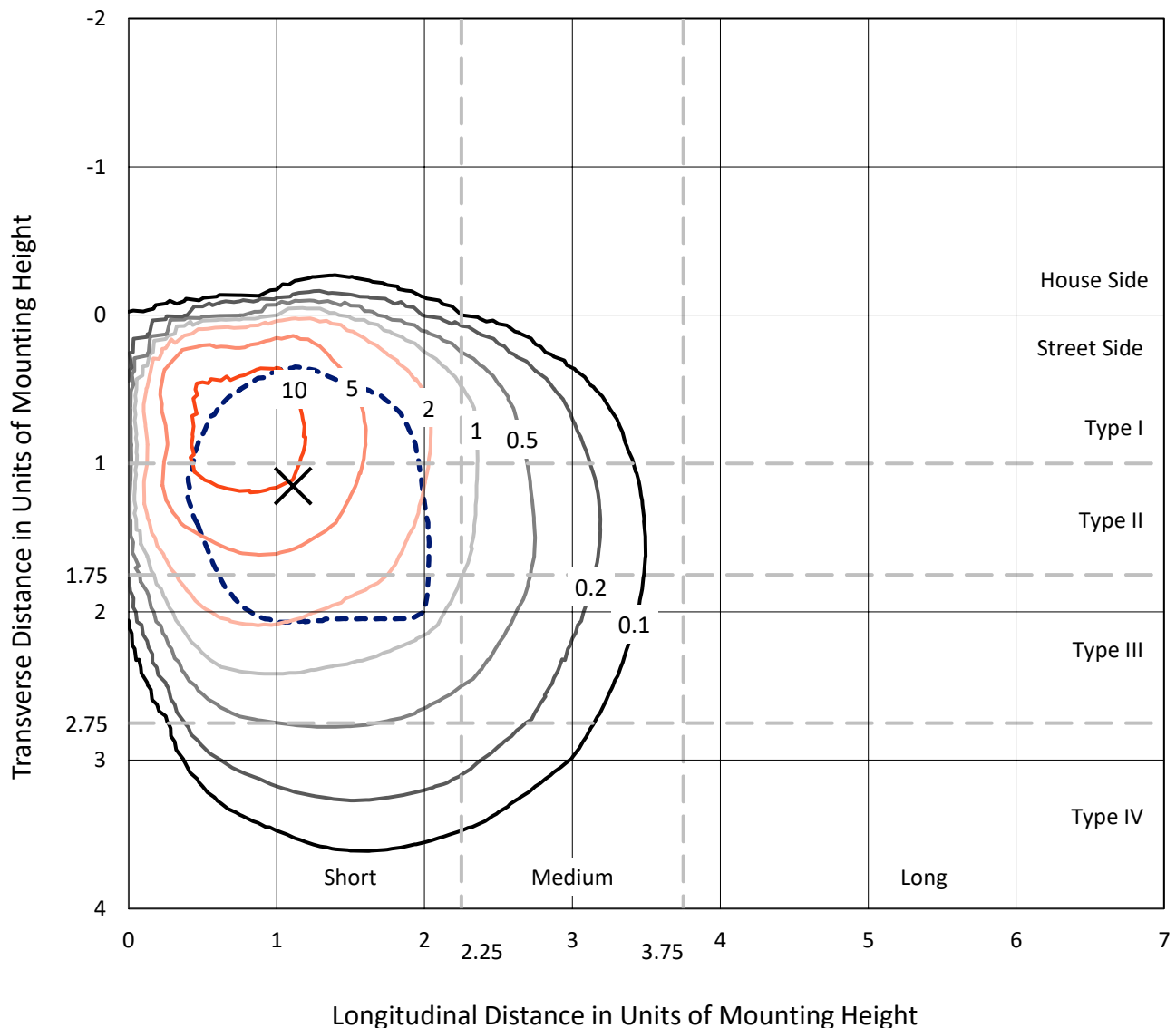
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

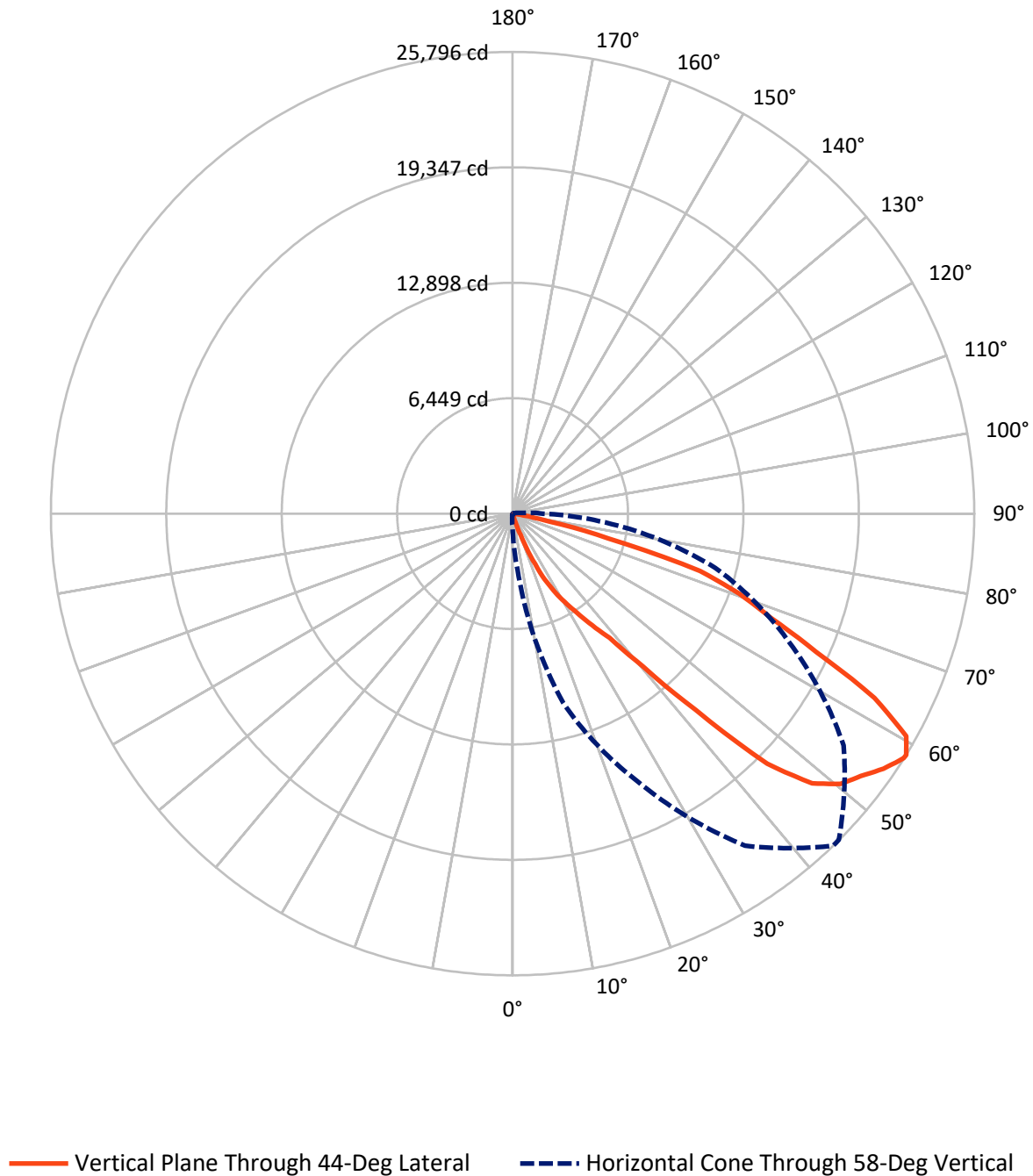
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.5 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	68.7	0.0	68.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9986.7	0.0	9986.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	10055.3	0.0	10055.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.0
10°-20°	22.1	0.2
20°-30°	238.2	2.4
30°-40°	704.5	7.0
40°-50°	2099.7	20.9
50°-60°	3331.7	33.1
60°-70°	2779.1	27.6
70°-80°	857.1	8.5
80°-90°	19.0	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°	10055.3	100.0
0°-180°	10055.3	100.0



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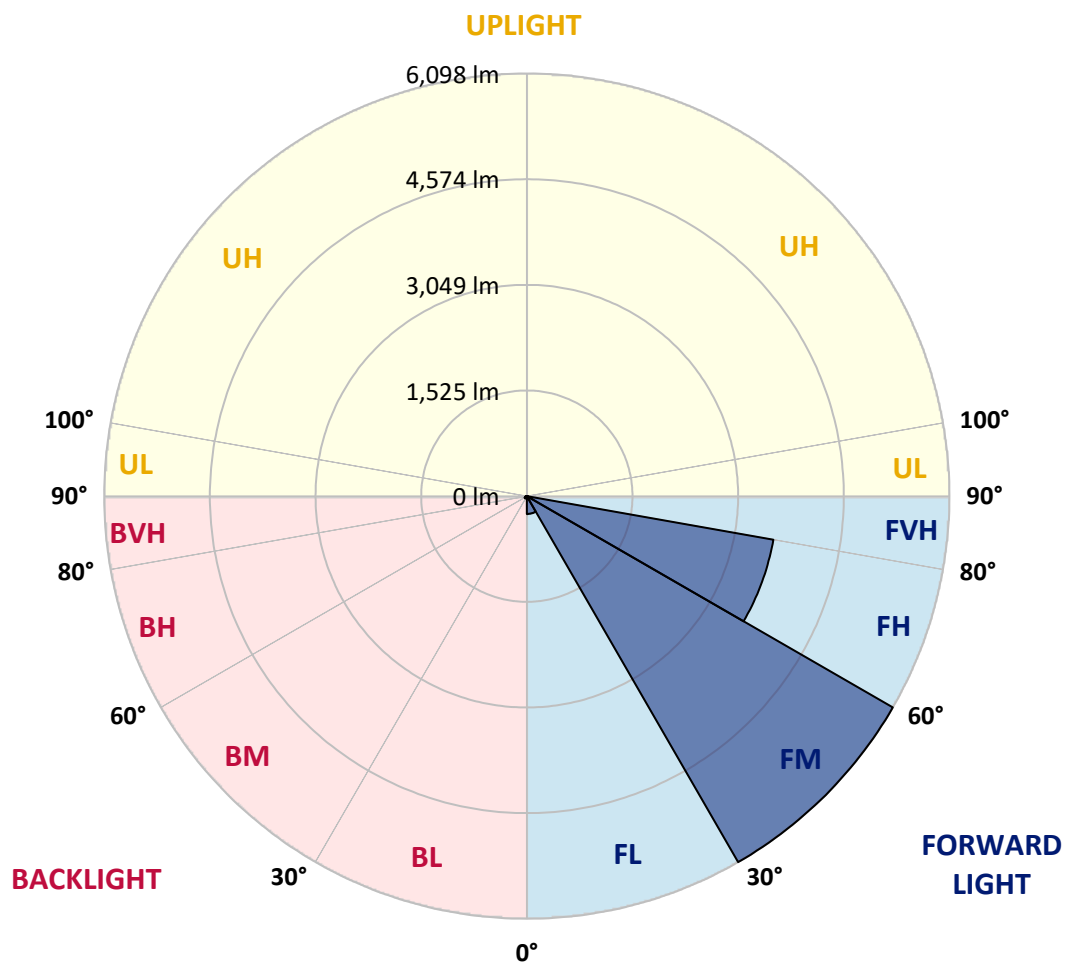
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.5	2.6			
FM	(30°-60°)	6098.4	60.6			
FH	(60°-80°)	3612.7	35.9			G2/5000
FVH	(80°-90°)	18.1	0.2			G1/100
BL	(0°-30°)	6.7	0.1	B0/110		
BM	(30°-60°)	37.6	0.4	B0/220		
BH	(60°-80°)	23.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
2.5°	57.0	57.0	54.7	51.7	48.6	45.6	44.8	43.3	42.5	41.8
5°	59.2	59.2	58.5	56.2	53.2	50.9	50.9	48.6	47.1	45.6
7.5°	60.8	61.5	63.0	62.3	60.8	58.5	58.5	57.0	54.7	50.9
10°	63.0	65.3	68.4	69.9	70.6	70.6	69.9	69.1	65.3	60.0
12.5°	65.3	69.9	77.5	85.1	89.6	95.7	94.9	93.4	83.6	72.2
15°	69.9	76.7	92.7	114.7	148.9	170.1	178.5	170.9	138.2	97.2
17.5°	75.2	86.6	134.4	240.0	393.5	466.4	510.4	474.7	314.5	184.6
20°	80.5	105.6	249.9	622.1	1020.9	1259.4	1325.5	1222.2	784.7	351.7
22.5°	89.6	148.1	506.6	1286.0	2199.8	2557.6	2625.2	2294.7	1482.0	694.3
25°	108.6	215.0	873.5	2095.7	3283.0	3886.8	3858.7	3425.8	2404.1	1109.0
27.5°	136.0	313.0	1320.9	2977.6	4320.6	4853.1	4916.9	4381.3	3204.7	1630.9
30°	175.5	433.7	1801.0	3684.0	5152.3	5728.1	5738.7	5185.0	3921.0	2088.9
32.5°	213.4	547.7	2221.1	4366.9	5971.9	6603.2	6650.3	5968.9	4455.8	2565.9
35°	242.3	622.1	2646.4	4967.0	6798.4	7668.1	7665.1	6856.1	5089.3	2992.0
37.5°	244.6	696.5	3031.5	5580.7	7845.1	8818.9	8915.4	8023.6	5855.0	3519.2
40°	239.3	780.1	3519.2	6537.8	9731.2	11225.3	11310.4	10186.2	7390.9	4421.6
42.5°	245.3	925.2	4310.7	8305.4	12863.0	15008.8	15172.9	13991.0	10214.3	6262.9
45°	277.3	1197.9	5968.9	11262.5	17327.1	19943.2	19888.5	18186.2	13499.5	9065.8
47.5°	382.8	1865.6	8426.9	14140.6	20180.2	22509.8	22556.9	20476.4	15416.7	11220.7
50°	588.7	2854.6	10492.3	15662.1	21406.9	23744.2	23700.1	21296.0	16145.2	12281.9
52.5°	765.7	3570.1	11528.4	16196.1	21564.1	24354.1	24351.1	21511.7	16258.4	12373.0
55°	809.7	3624.0	11536.7	16225.0	21916.6	25152.5	25252.7	22042.7	16405.0	11975.0
57.5°	792.3	3208.5	11055.1	16392.1	22544.0	25770.0	25775.3	22556.9	16777.2	11731.2
58°	777.1	3143.2	10957.9	16487.0	22651.9	25795.8	25782.9	22580.5	17080.3	11722.1
60°	692.0	2729.2	10578.9	16729.3	22491.6	25265.7	25144.9	22066.2	17035.4	11628.6
62.5°	543.9	2129.1	10205.9	16449.0	20773.4	22699.0	22749.1	19536.0	15529.9	11084.0
65°	433.0	1586.8	9428.1	14428.5	17106.1	18640.5	18827.3	15886.2	12962.5	9385.6
67.5°	344.9	1147.0	7908.9	11487.4	13536.0	15557.3	15693.2	13337.7	10042.6	7191.1
70°	280.3	775.5	5459.2	8401.1	11164.5	13437.2	13445.6	11080.2	7495.7	4711.8
72.5°	248.4	537.0	3169.0	6126.9	9052.9	10949.6	10728.5	8991.3	5760.8	2790.8
75°	215.0	356.3	1554.1	3745.6	5488.8	5526.1	5610.4	4170.9	2879.6	1327.0
77.5°	177.0	252.9	612.2	1023.2	1646.0	2107.1	2185.4	1655.9	957.8	326.6
80°	121.5	120.0	164.8	313.7	470.9	590.2	550.7	426.1	250.7	125.3
82.5°	52.4	57.0	74.4	89.6	72.9	70.6	67.6	43.3	33.4	25.8
85°	16.7	15.2	16.0	16.0	12.9	9.9	9.9	4.6	0.0	0.0
87.5°	8.4	6.8	6.8	6.1	3.8	1.5	0.8	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°
44.1	0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
41.0	2.5°	40.3	40.3	38.7	37.2	36.5	34.9	34.2	33.4	32.7	31.9
44.1	5°	42.5	41.8	39.5	37.2	34.9	32.7	31.1	29.6	28.1	27.3
48.6	7.5°	46.3	44.8	40.3	36.5	33.4	30.4	28.9	26.6	25.1	22.8
53.9	10°	50.9	47.9	41.8	37.2	32.7	28.9	26.6	24.3	22.0	19.0
61.5	12.5°	57.0	51.7	44.1	36.5	31.1	26.6	24.3	21.3	19.0	16.7
71.4	15°	62.3	55.5	44.8	36.5	29.6	24.3	21.3	18.2	16.0	12.9
89.6	17.5°	69.9	58.5	44.1	34.2	27.3	21.3	18.2	16.0	12.2	7.6
132.9	20°	82.8	60.8	42.5	31.9	23.5	17.5	13.7	10.6	5.3	1.5
199.8	22.5°	103.3	66.8	41.0	28.9	20.5	13.7	9.1	3.8	0.0	0.0
303.8	25°	142.8	77.5	41.0	27.3	18.2	9.9	3.0	0.0	0.0	0.0
431.5	27.5°	189.9	91.9	41.0	23.5	14.4	5.3	0.0	0.0	0.0	0.0
587.9	30°	237.8	107.9	41.0	20.5	11.4	0.8	0.0	0.0	0.0	0.0
723.9	32.5°	283.3	121.5	41.8	17.5	7.6	0.0	0.0	0.0	0.0	0.0
912.3	35°	329.7	123.8	41.0	15.2	4.6	0.0	0.0	0.0	0.0	0.0
1143.2	37.5°	388.9	119.3	38.7	13.7	2.3	0.0	0.0	0.0	0.0	0.0
1504.0	40°	478.5	121.5	36.5	12.9	0.8	0.0	0.0	0.0	0.0	0.0
2147.4	42.5°	644.1	131.4	33.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0
3420.5	45°	1113.6	176.2	30.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0
5134.9	47.5°	1842.0	316.8	29.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0
6185.4	50°	2350.9	398.8	31.1	14.4	0.0	0.0	0.0	0.0	0.0	0.0
6316.8	52.5°	2347.1	444.4	32.7	15.2	3.0	0.0	0.0	0.0	0.0	0.0
5822.3	55°	2086.6	452.7	34.9	16.7	9.9	0.0	0.0	0.0	0.0	0.0
5003.5	57.5°	1744.0	413.2	40.3	20.5	18.2	0.0	0.0	0.0	0.0	0.0
4875.1	58°	1683.3	395.0	41.8	21.3	19.7	0.0	0.0	0.0	0.0	0.0
4228.7	60°	1379.4	322.1	53.2	26.6	26.6	0.0	0.0	0.0	0.0	0.0
3466.8	62.5°	952.5	281.1	60.8	34.2	27.3	0.0	0.0	0.0	0.0	0.0
2556.0	65°	673.8	253.7	66.1	36.5	22.0	0.0	0.0	0.0	0.0	0.0
1816.2	67.5°	503.6	234.0	72.9	37.2	11.4	0.0	0.0	0.0	0.0	0.0
1139.4	70°	385.9	219.5	89.6	39.5	3.0	0.0	0.0	0.0	0.0	0.0
679.1	72.5°	314.5	202.8	108.6	41.0	0.0	0.0	0.0	0.0	0.0	0.0
407.1	75°	260.5	183.1	104.8	44.8	0.0	0.0	0.0	0.0	0.0	0.0
217.2	77.5°	173.2	142.0	95.7	44.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5	80°	60.8	56.2	74.4	39.5	0.0	0.0	0.0	0.0	0.0	0.0
16.0	82.5°	9.1	7.6	10.6	13.7	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°
44.1	0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
31.1	2.5°	31.1	31.1	30.4	31.1	31.1	32.7	36.5	41.8	47.9	50.1
26.6	5°	25.8	25.1	24.3	24.3	24.3	26.6	29.6	35.7	42.5	45.6
22.0	7.5°	21.3	20.5	19.7	19.0	19.0	20.5	24.3	31.1	38.0	41.0
18.2	10°	17.5	16.0	15.2	14.4	14.4	16.0	19.7	26.6	34.2	37.2
15.2	12.5°	14.4	12.2	10.6	9.9	9.1	11.4	15.2	21.3	29.6	33.4
11.4	15°	9.9	7.6	5.3	4.6	3.8	6.1	9.9	16.7	25.1	29.6
6.1	17.5°	5.3	2.3	0.8	0.0	0.0	1.5	4.6	12.2	20.5	24.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.2	19.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.1	12.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
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°
44.1	0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
52.4	2.5°	53.9	53.2	51.7	50.1	50.1	50.1	52.4	54.7	57.0	57.0
47.1	5°	50.1	50.1	49.4	47.9	47.9	48.6	51.7	55.5	58.5	59.2
43.3	7.5°	46.3	47.9	46.3	45.6	46.3	47.1	50.1	54.7	59.2	60.8
40.3	10°	44.1	44.8	44.8	44.1	44.1	45.6	48.6	54.7	60.8	63.0
36.5	12.5°	41.0	42.5	41.8	41.8	41.8	43.3	47.1	53.9	62.3	65.3
32.7	15°	38.0	40.3	40.3	39.5	39.5	40.3	45.6	53.2	64.6	69.9
28.1	17.5°	34.9	37.2	38.0	36.5	36.5	38.0	43.3	53.2	66.1	75.2
22.8	20°	28.9	32.7	34.9	32.7	32.7	34.2	39.5	50.1	66.8	80.5
16.7	22.5°	22.8	26.6	29.6	28.9	28.9	29.6	36.5	47.9	67.6	89.6
9.9	25°	16.7	20.5	22.8	24.3	24.3	26.6	33.4	46.3	70.6	108.6
4.6	27.5°	9.9	14.4	17.5	19.0	19.7	22.8	31.1	44.8	76.0	136.0
0.0	30°	4.6	8.4	12.2	15.2	15.2	20.5	28.9	43.3	82.8	175.5
0.0	32.5°	0.0	3.8	6.1	10.6	11.4	16.7	26.6	41.8	92.7	213.4
0.0	35°	0.0	0.0	3.0	8.4	8.4	13.7	24.3	40.3	107.9	242.3
0.0	37.5°	0.0	0.0	0.0	6.1	6.8	12.2	23.5	39.5	110.9	244.6
0.0	40°	0.0	0.0	0.0	4.6	5.3	11.4	23.5	40.3	100.3	239.3
0.0	42.5°	0.0	0.0	0.0	3.0	3.8	11.4	23.5	41.8	90.4	245.3
0.0	45°	0.0	0.0	0.0	2.3	3.0	12.2	22.8	41.0	85.1	277.3
0.0	47.5°	0.0	0.0	0.0	3.0	4.6	12.2	22.0	40.3	85.8	382.8
0.0	50°	0.0	0.0	0.0	3.8	5.3	12.2	22.8	38.7	94.2	588.7
0.0	52.5°	0.0	0.0	0.0	3.0	4.6	13.7	25.1	38.0	102.5	765.7
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.5	27.3	38.0	115.5	809.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.7	31.1	40.3	136.7	792.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.7	31.9	40.3	138.2	777.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.7	34.9	44.8	148.9	692.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.7	41.8	56.2	155.0	543.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.7	49.4	61.5	159.5	433.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.9	50.9	62.3	161.8	344.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.7	50.1	66.8	169.4	280.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.2	45.6	73.7	169.4	248.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.0	42.5	82.8	154.2	215.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.2	41.8	96.5	137.5	177.0
0.0	80°	1.5	2.3	2.3	1.5	1.5	12.9	41.0	98.0	117.0	121.5
0.8	82.5°	4.6	6.1	5.3	3.8	3.8	11.4	36.5	82.0	60.8	52.4
4.6	85°	8.4	9.9	9.9	8.4	8.4	10.6	22.8	29.6	20.5	16.7
8.4	87.5°	11.4	12.9	12.9	11.4	11.4	10.6	9.9	9.1	8.4	8.4
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: SP1-2407-184-6

Test Date: 10/10/2024

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

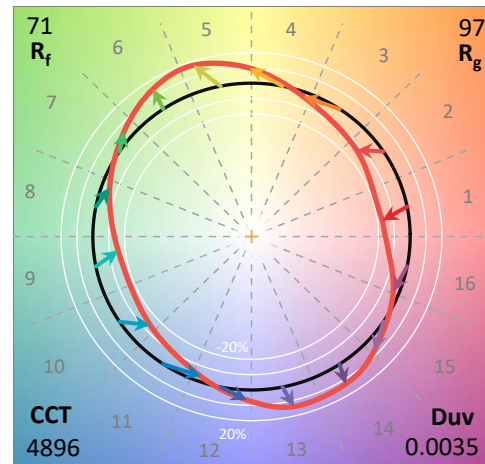
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

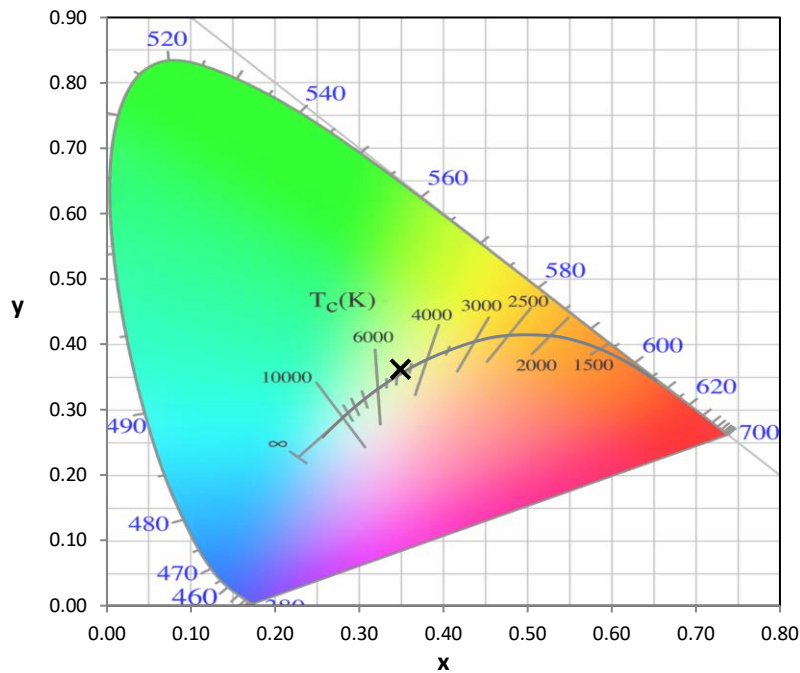
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

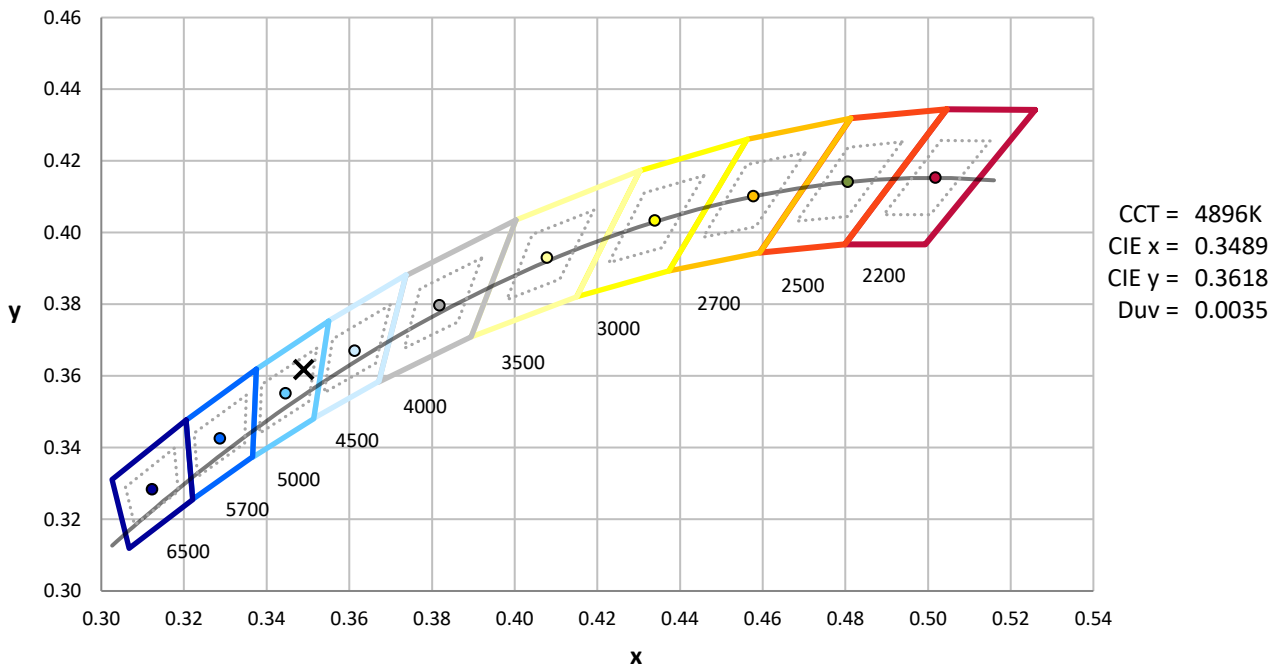
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



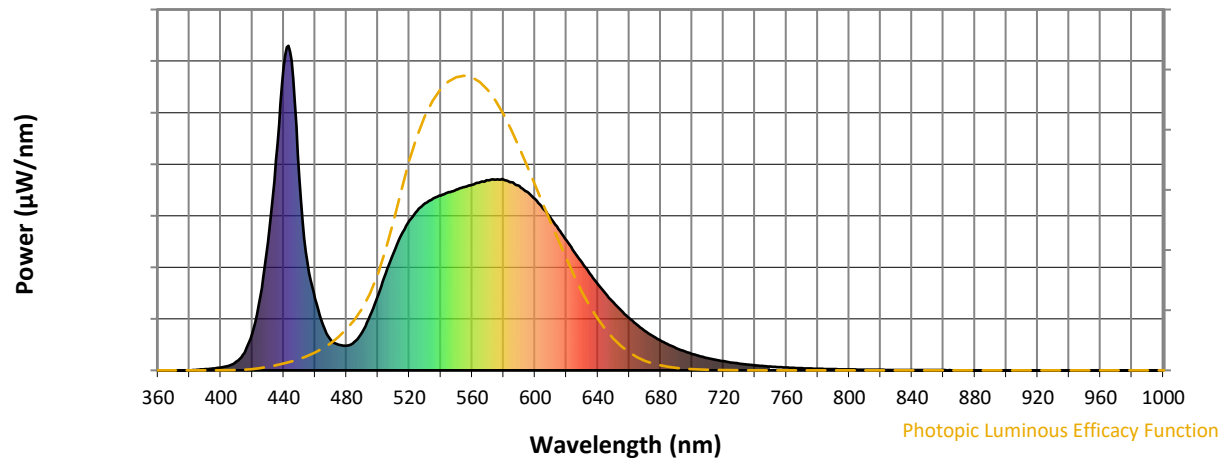
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

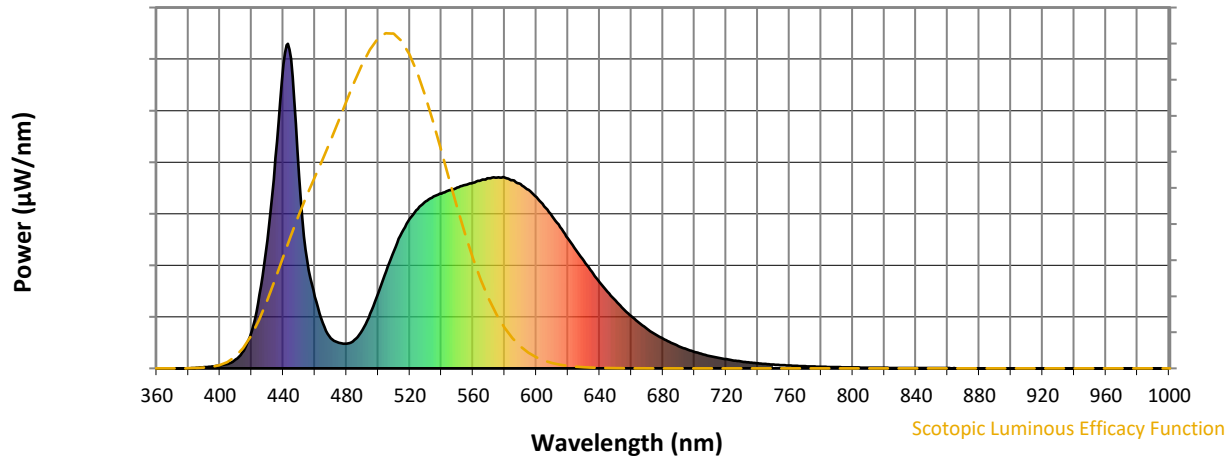


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	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



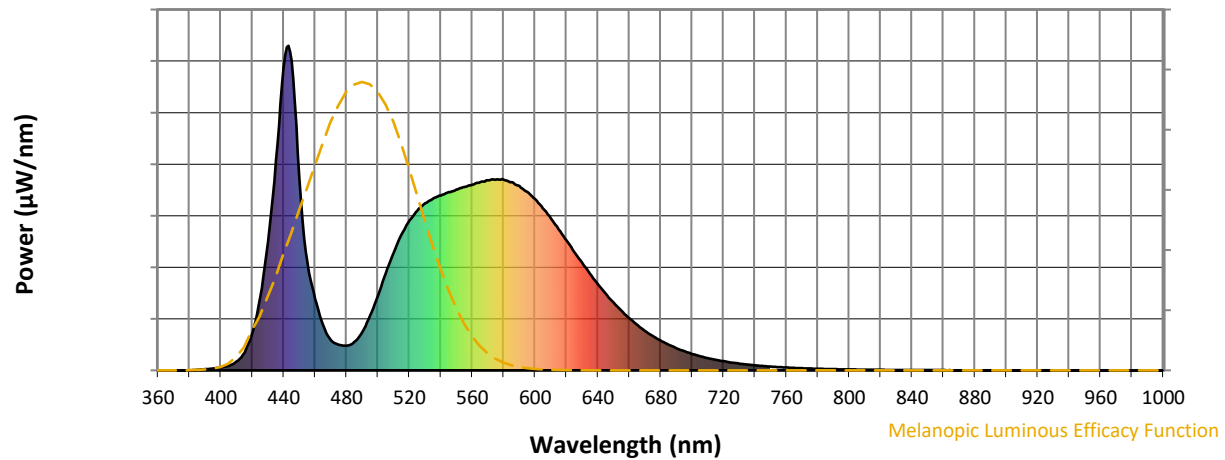
Scotopic Lumens: NR

S/P: 1.7

λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (Φ/nm)
360	0	NR	490	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

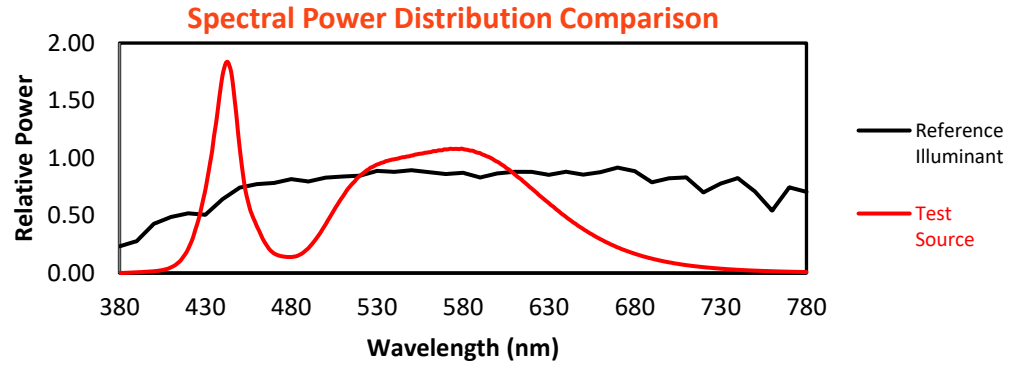
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	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			

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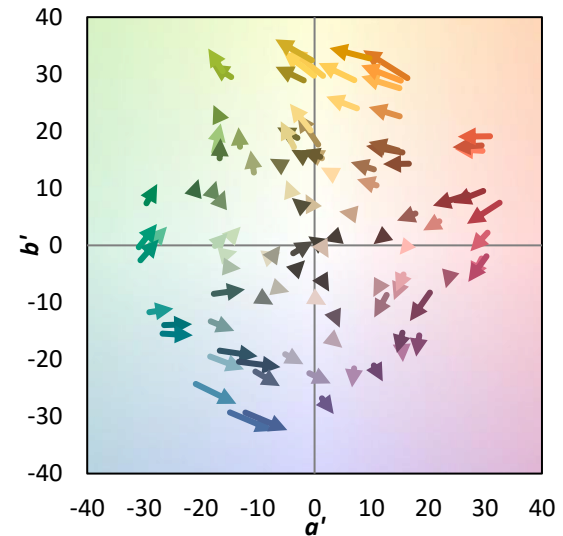
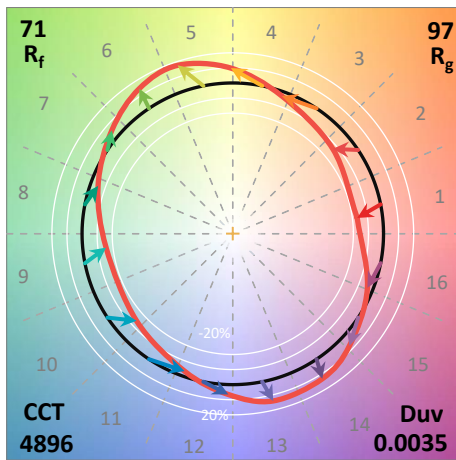
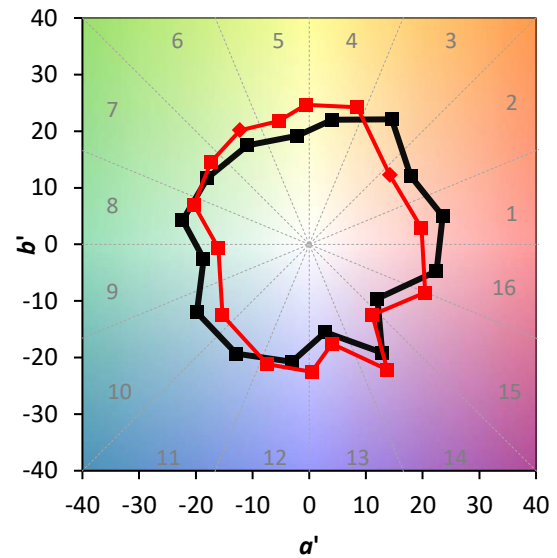
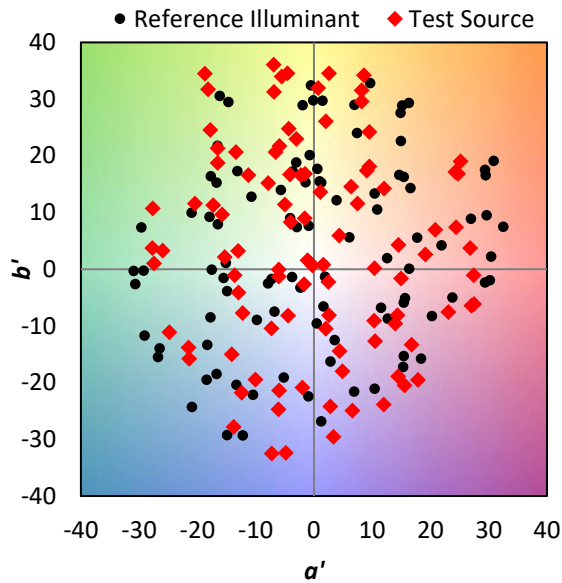
TM-30-18

Summary

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

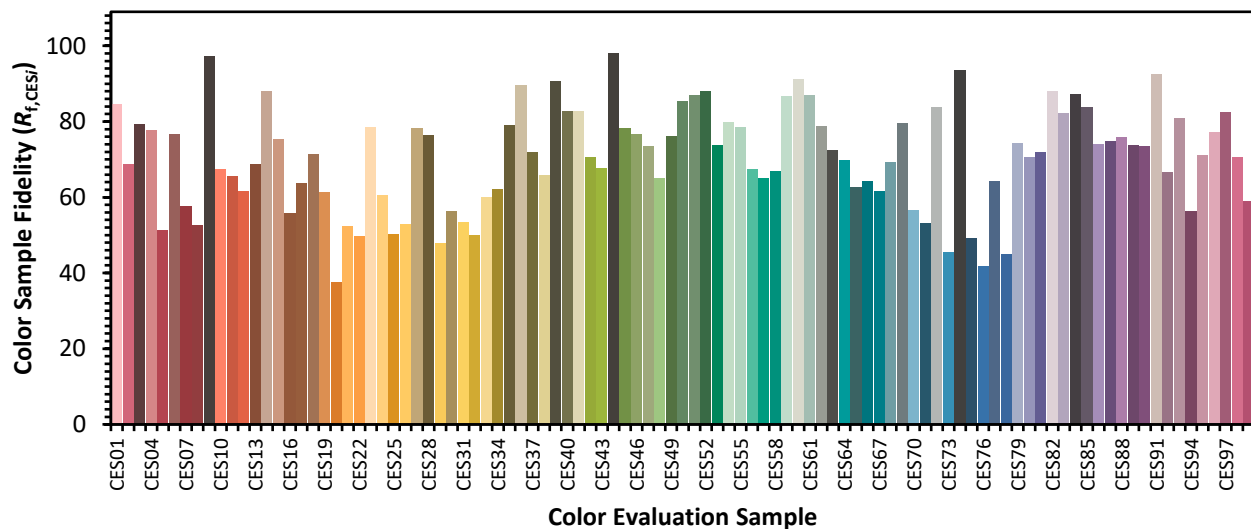


Color Vector Graphics

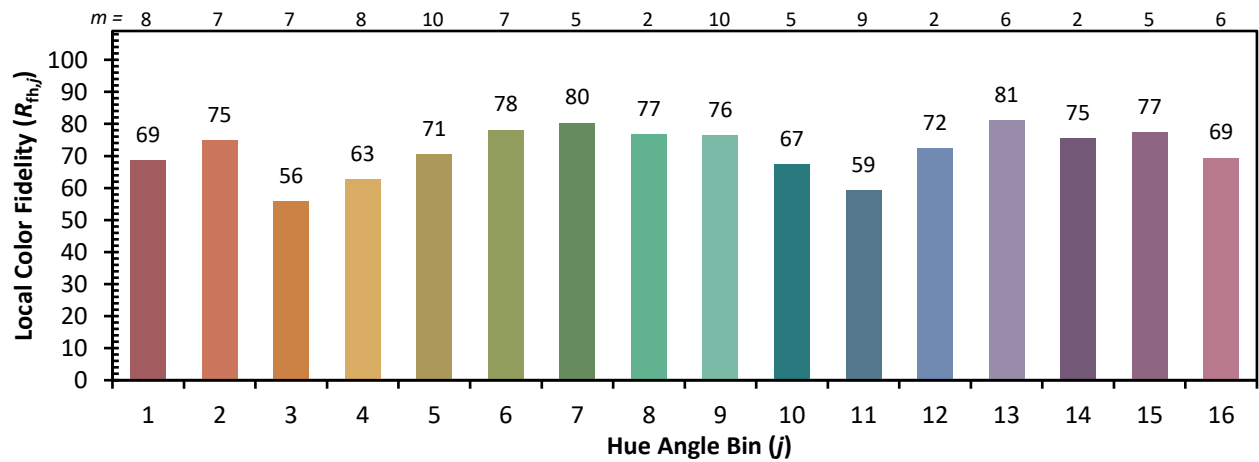
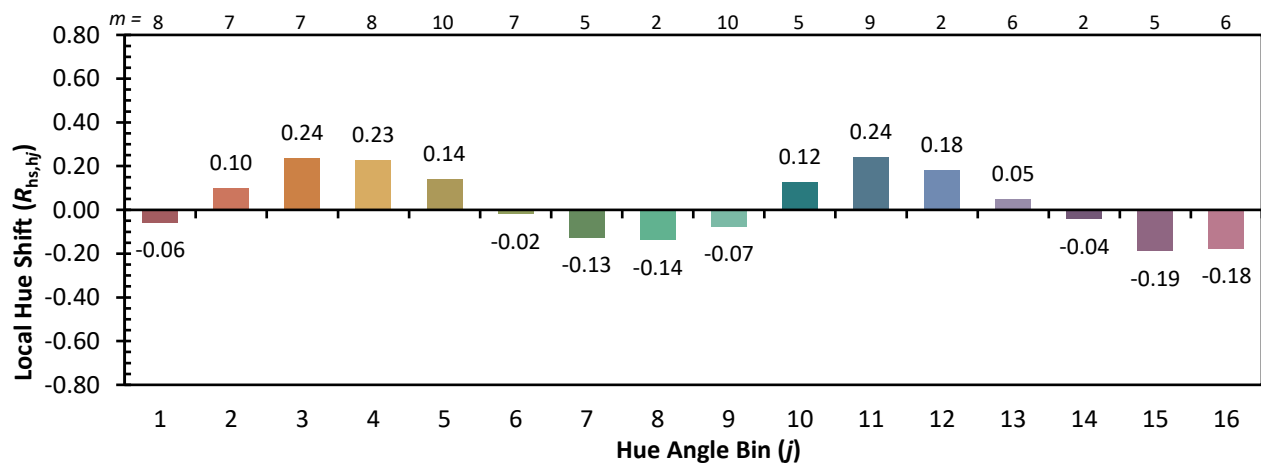
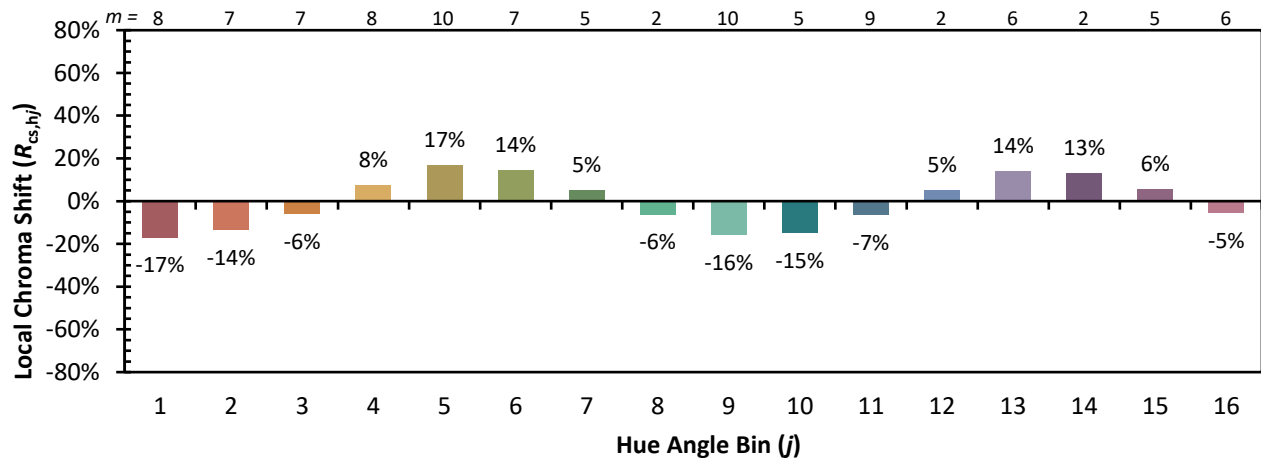


Individual Sample Fidelity Index ($R_{f,i}$)

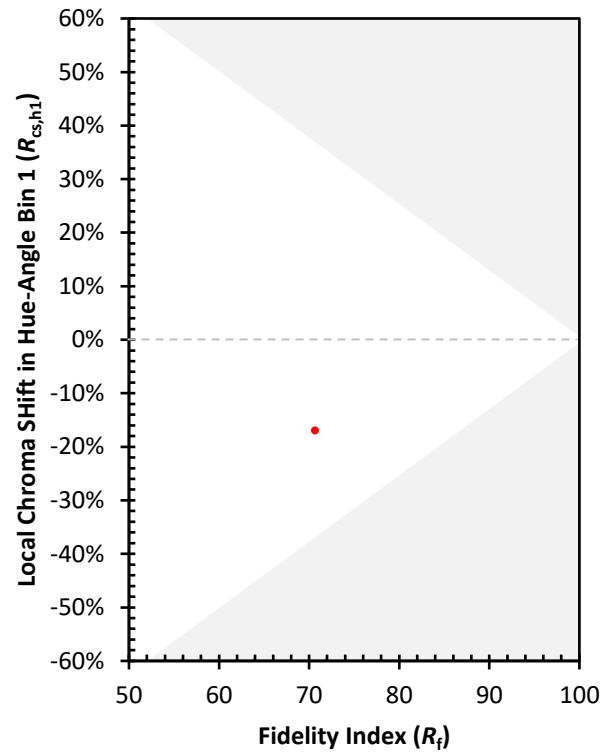
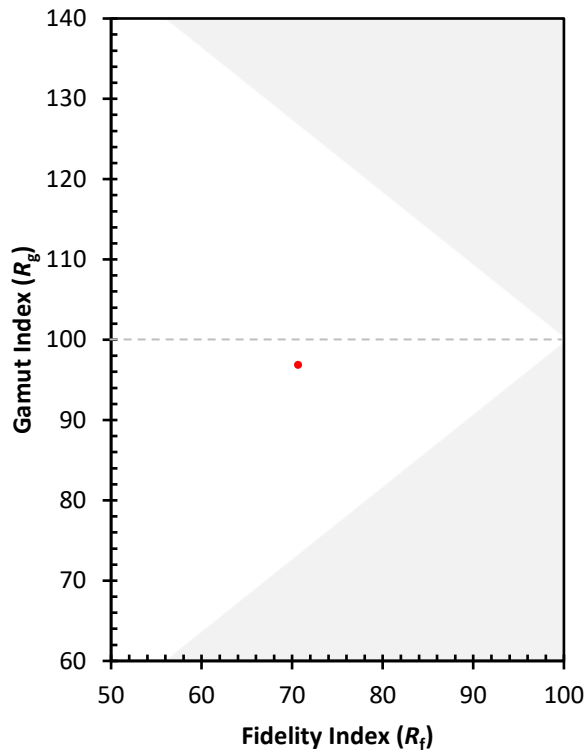
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 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)