

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: P1049669

Luminaire Tested: **GALN-SA8A-750-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049669
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26187.2 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 217.6
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

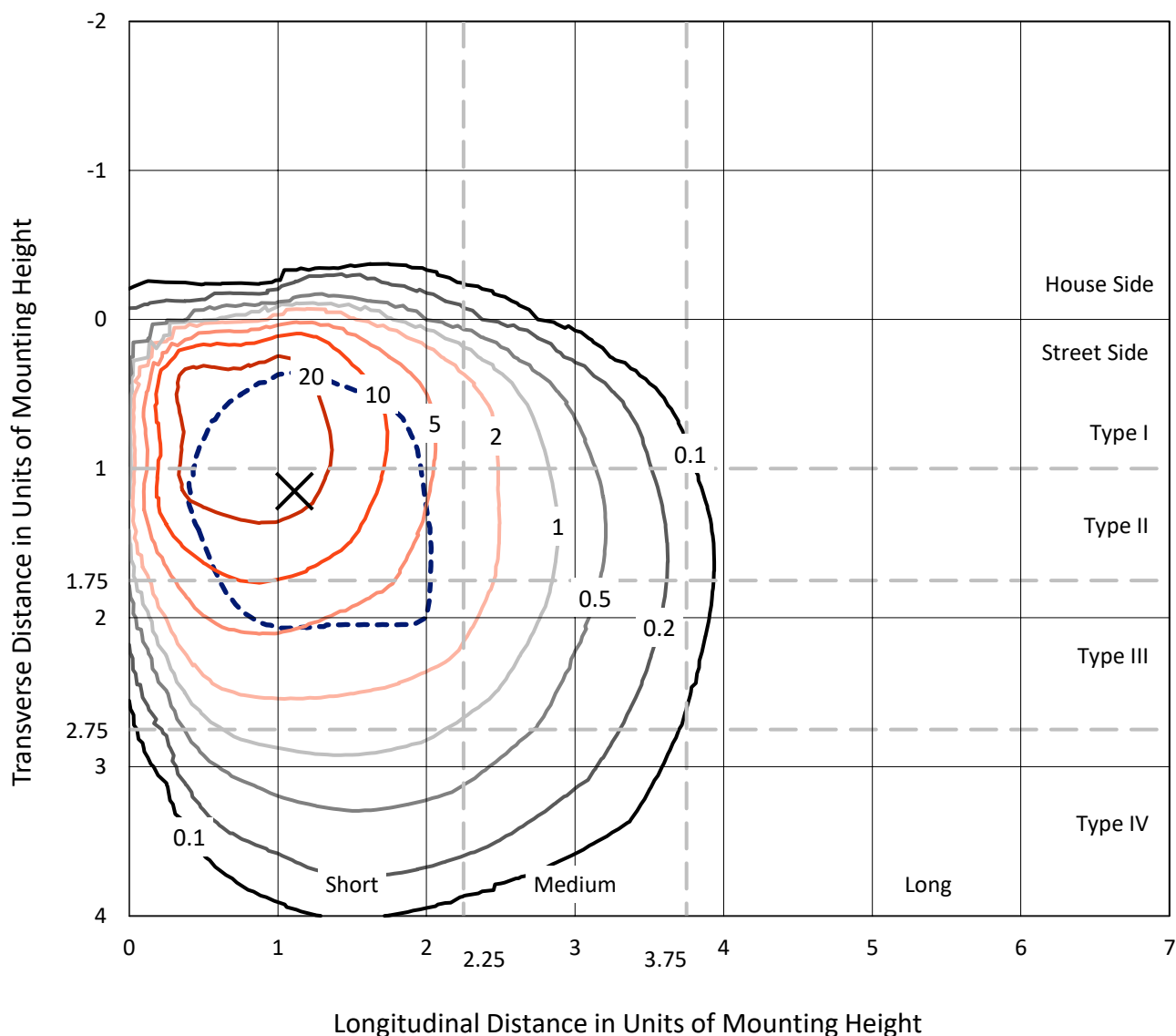
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

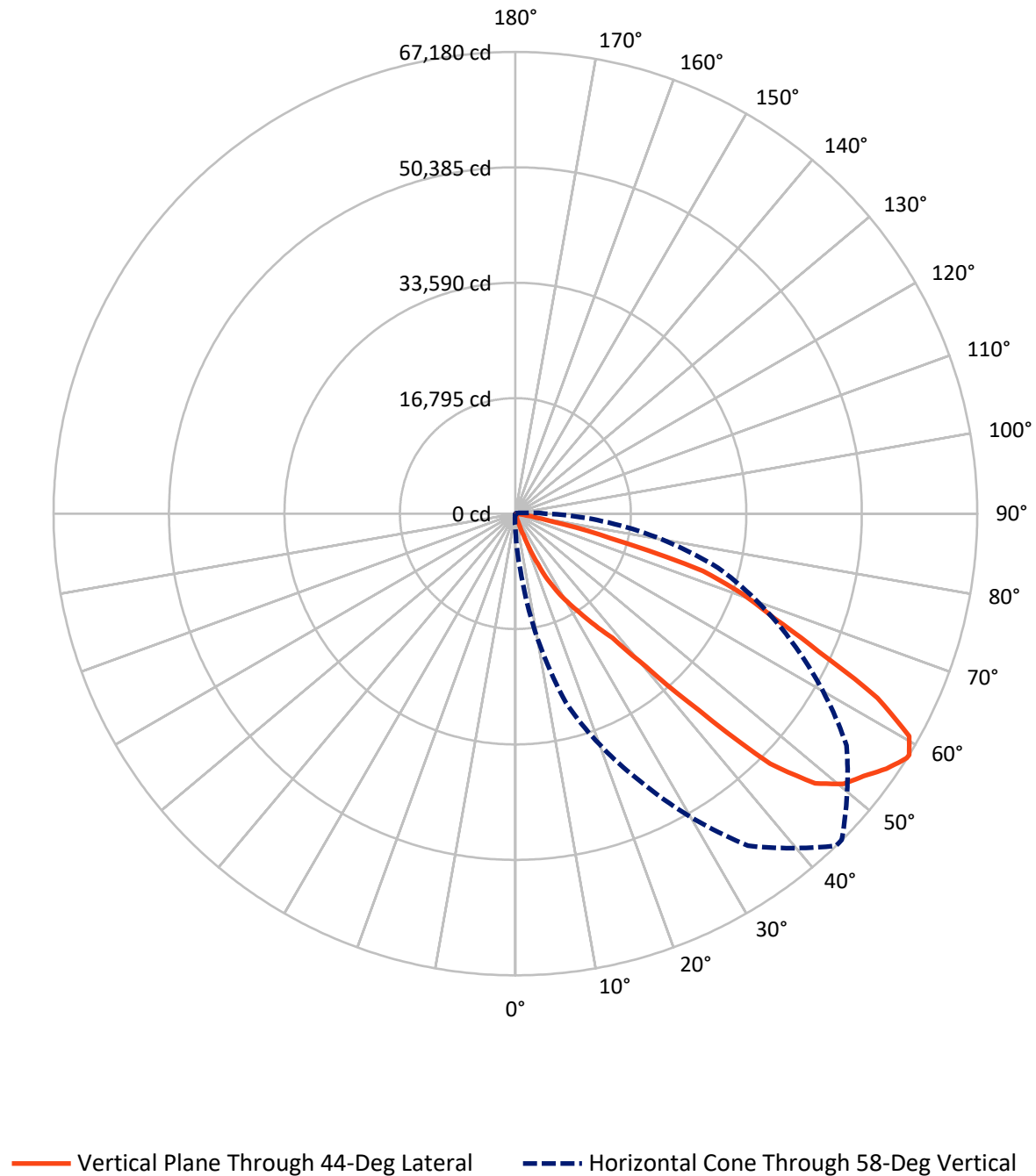


Based on 20 foot mounting height. Maximum calculated value = 45.6 fc

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	178.8	0.0	178.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	26008.4	0.0	26008.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	26187.2	0.0	26187.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.0
10°-20°	57.4	0.2
20°-30°	620.4	2.4
30°-40°	1834.7	7.0
40°-50°	5468.3	20.9
50°-60°	8676.9	33.1
60°-70°	7237.6	27.6
70°-80°	2232.2	8.5
80°-90°	49.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26187.2	100.0
0°-180°	26187.2	100.0



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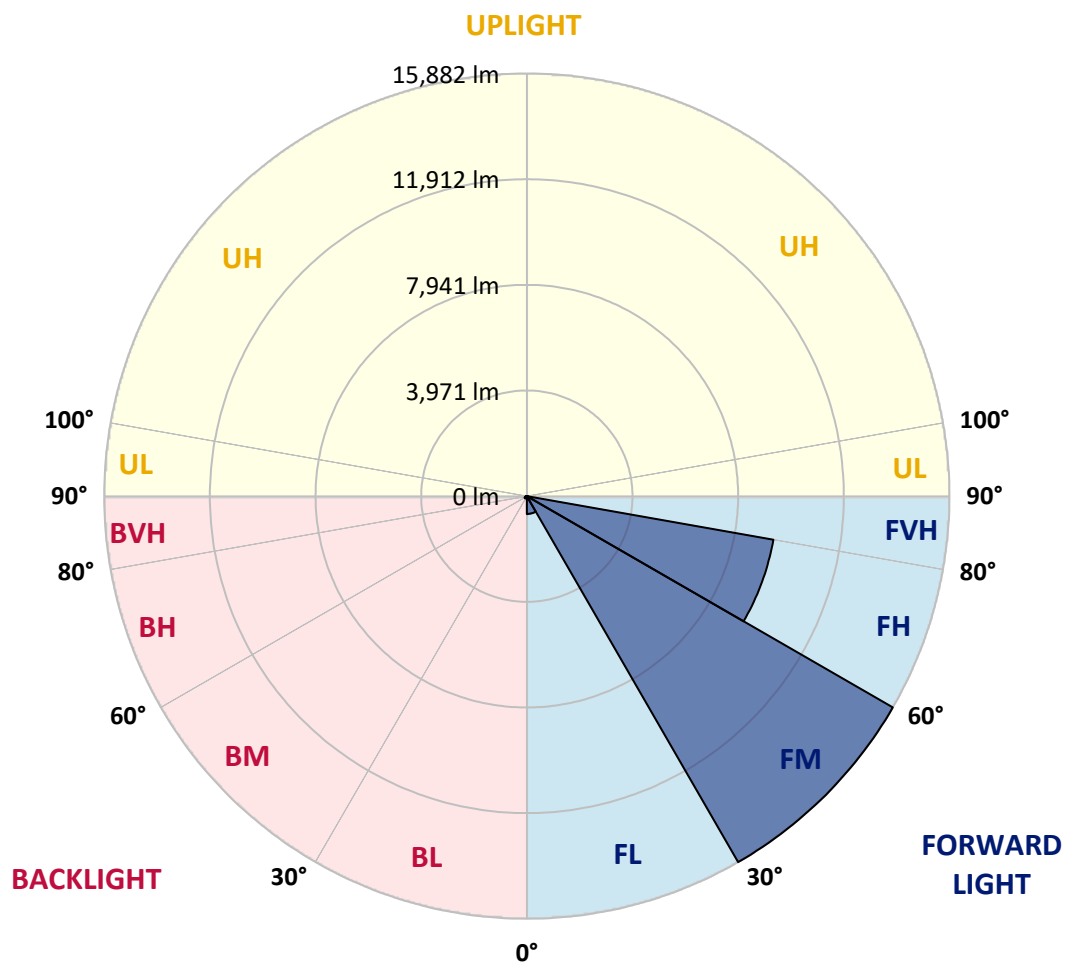
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	670.5	2.6			
FM	(30°-60°)	15882.0	60.6			
FH	(60°-80°)	9408.7	35.9			G4/12000
FVH	(80°-90°)	47.2	0.2			G1/100
BL	(0°-30°)	17.5	0.1	B0/110		
BM	(30°-60°)	97.9	0.4	B0/220		
BH	(60°-80°)	61.0	0.2	B0/110		G0/110
BVH	(80°-90°)	2.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
2.5°	148.4	148.4	142.4	134.5	126.6	118.7	116.7	112.8	110.8	108.8
5°	154.3	154.3	152.3	146.4	138.5	132.5	132.5	126.6	122.6	118.7
7.5°	158.3	160.2	164.2	162.2	158.3	152.3	152.3	148.4	142.4	132.5
10°	164.2	170.1	178.0	182.0	184.0	184.0	182.0	180.0	170.1	156.3
12.5°	170.1	182.0	201.8	221.6	233.4	249.3	247.3	243.3	217.6	187.9
15°	182.0	199.8	241.3	298.7	387.7	443.1	464.9	445.1	360.0	253.2
17.5°	195.8	225.5	350.1	625.1	1024.7	1214.6	1329.4	1236.4	819.0	480.7
20°	209.7	275.0	650.8	1620.2	2658.7	3279.9	3452.0	3183.0	2043.5	915.9
22.5°	233.4	385.8	1319.5	3349.1	5728.9	6660.7	6836.7	5976.2	3859.5	1808.1
25°	282.9	559.8	2275.0	5457.9	8549.9	10122.6	10049.4	8921.8	6261.1	2888.2
27.5°	354.1	815.0	3440.1	7754.6	11252.1	12638.9	12805.0	11410.4	8346.1	4247.2
30°	457.0	1129.6	4690.4	9594.4	13418.3	14917.8	14945.5	13503.3	10211.6	5440.1
32.5°	555.9	1426.3	5784.3	11372.8	15552.8	17196.7	17319.3	15544.9	11604.3	6682.4
35°	631.1	1620.2	6892.1	12935.6	17705.1	19970.2	19962.2	17855.4	13254.1	7792.2
37.5°	637.0	1814.0	7895.1	14534.0	20431.1	22967.2	23218.4	20896.0	15248.1	9165.1
40°	623.1	2031.6	9165.1	17026.6	25343.0	29234.2	29455.7	26528.0	19248.1	11515.2
42.5°	639.0	2409.5	11226.4	21629.9	33499.2	39087.7	39515.0	36436.9	26601.2	16310.4
45°	722.1	3119.7	15544.9	29331.1	45125.2	51938.2	51795.8	47362.6	35157.0	23610.1
47.5°	997.0	4858.5	21946.4	36826.6	52555.4	58622.6	58745.3	53326.9	40150.0	29222.3
50°	1533.1	7434.2	27325.2	40789.0	55750.3	61837.3	61722.5	55461.4	42047.1	31985.9
52.5°	1994.0	9297.6	30023.5	42179.7	56159.8	63425.8	63417.8	56023.3	42341.9	32223.3
55°	2108.8	9438.1	30045.2	42254.8	57077.6	65504.9	65766.0	57406.0	42723.7	31186.7
57.5°	2063.3	8356.0	28791.0	42690.0	58711.7	67113.2	67127.0	58745.3	43693.0	30551.7
58°	2023.7	8185.9	28537.8	42937.3	58992.6	67180.4	67146.8	58806.6	44482.3	30527.9
60°	1802.2	7107.8	27550.7	43568.4	58575.2	65799.6	65485.1	57467.4	44365.6	30284.6
62.5°	1416.4	5545.0	26579.4	42838.4	54100.4	59115.2	59245.8	50877.9	40444.8	28866.2
65°	1127.6	4132.5	24553.7	37576.3	44549.6	48545.6	49032.2	41372.5	33758.4	24442.9
67.5°	898.1	2987.1	20597.3	29916.7	35251.9	40516.0	40870.1	34735.6	26154.1	18727.8
70°	730.0	2019.8	14217.5	21879.1	29075.9	34994.8	35016.5	28856.3	19521.1	12270.9
72.5°	646.9	1398.6	8253.1	15956.3	23576.5	28516.1	27940.4	23416.2	15002.8	7268.0
75°	559.8	927.8	4047.4	9754.6	14294.6	14391.6	14611.1	10862.4	7499.4	3456.0
77.5°	460.9	658.7	1594.4	2664.7	4286.8	5487.6	5691.3	4312.5	2494.5	850.6
80°	316.5	312.6	429.3	817.0	1226.5	1537.1	1434.2	1109.8	652.8	326.4
82.5°	136.5	148.4	193.9	233.4	189.9	184.0	176.1	112.8	87.0	67.3
85°	43.5	39.6	41.5	41.5	33.6	25.7	25.7	11.9	0.0	0.0
87.5°	21.8	17.8	17.8	15.8	9.9	4.0	2.0	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
114.7	0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
106.8	2.5°	104.8	104.8	100.9	96.9	95.0	91.0	89.0	87.0	85.1	83.1
114.7	5°	110.8	108.8	102.9	96.9	91.0	85.1	81.1	77.2	73.2	71.2
126.6	7.5°	120.7	116.7	104.8	95.0	87.0	79.1	75.2	69.2	65.3	59.3
140.5	10°	132.5	124.6	108.8	96.9	85.1	75.2	69.2	63.3	57.4	49.5
160.2	12.5°	148.4	134.5	114.7	95.0	81.1	69.2	63.3	55.4	49.5	43.5
186.0	15°	162.2	144.4	116.7	95.0	77.2	63.3	55.4	47.5	41.5	33.6
233.4	17.5°	182.0	152.3	114.7	89.0	71.2	55.4	47.5	41.5	31.7	19.8
346.2	20°	215.6	158.3	110.8	83.1	61.3	45.5	35.6	27.7	13.8	4.0
520.3	22.5°	269.0	174.1	106.8	75.2	53.4	35.6	23.7	9.9	0.0	0.0
791.3	25°	371.9	201.8	106.8	71.2	47.5	25.7	7.9	0.0	0.0	0.0
1123.6	27.5°	494.6	239.4	106.8	61.3	37.6	13.8	0.0	0.0	0.0	0.0
1531.1	30°	619.2	280.9	106.8	53.4	29.7	2.0	0.0	0.0	0.0	0.0
1885.2	32.5°	737.9	316.5	108.8	45.5	19.8	0.0	0.0	0.0	0.0	0.0
2375.8	35°	858.5	322.5	106.8	39.6	11.9	0.0	0.0	0.0	0.0	0.0
2977.2	37.5°	1012.8	310.6	100.9	35.6	5.9	0.0	0.0	0.0	0.0	0.0
3916.9	40°	1246.3	316.5	95.0	33.6	2.0	0.0	0.0	0.0	0.0	0.0
5592.4	42.5°	1677.5	342.2	87.0	33.6	0.0	0.0	0.0	0.0	0.0	0.0
8907.9	45°	2900.1	458.9	79.1	35.6	0.0	0.0	0.0	0.0	0.0	0.0
13372.8	47.5°	4797.2	824.9	77.2	35.6	0.0	0.0	0.0	0.0	0.0	0.0
16108.7	50°	6122.6	1038.6	81.1	37.6	0.0	0.0	0.0	0.0	0.0	0.0
16450.9	52.5°	6112.7	1157.3	85.1	39.6	7.9	0.0	0.0	0.0	0.0	0.0
15163.1	55°	5434.2	1179.0	91.0	43.5	25.7	0.0	0.0	0.0	0.0	0.0
13030.6	57.5°	4542.0	1076.2	104.8	53.4	47.5	0.0	0.0	0.0	0.0	0.0
12696.2	58°	4383.7	1028.7	108.8	55.4	51.4	0.0	0.0	0.0	0.0	0.0
11012.8	60°	3592.5	838.8	138.5	69.2	69.2	0.0	0.0	0.0	0.0	0.0
9028.6	62.5°	2480.7	731.9	158.3	89.0	71.2	0.0	0.0	0.0	0.0	0.0
6656.7	65°	1754.7	660.7	172.1	95.0	57.4	0.0	0.0	0.0	0.0	0.0
4729.9	67.5°	1311.6	609.3	189.9	96.9	29.7	0.0	0.0	0.0	0.0	0.0
2967.3	70°	1004.9	571.7	233.4	102.9	7.9	0.0	0.0	0.0	0.0	0.0
1768.5	72.5°	819.0	528.2	282.9	106.8	0.0	0.0	0.0	0.0	0.0	0.0
1060.3	75°	678.5	476.8	273.0	116.7	0.0	0.0	0.0	0.0	0.0	0.0
565.8	77.5°	451.0	369.9	249.3	116.7	0.0	0.0	0.0	0.0	0.0	0.0
201.8	80°	158.3	146.4	193.9	102.9	0.0	0.0	0.0	0.0	0.0	0.0
41.5	82.5°	23.7	19.8	27.7	35.6	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°
114.7	0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
81.1	2.5°	81.1	81.1	79.1	81.1	81.1	85.1	95.0	108.8	124.6	130.6
69.2	5°	67.3	65.3	63.3	63.3	63.3	69.2	77.2	93.0	110.8	118.7
57.4	7.5°	55.4	53.4	51.4	49.5	49.5	53.4	63.3	81.1	98.9	106.8
47.5	10°	45.5	41.5	39.6	37.6	37.6	41.5	51.4	69.2	89.0	96.9
39.6	12.5°	37.6	31.7	27.7	25.7	23.7	29.7	39.6	55.4	77.2	87.0
29.7	15°	25.7	19.8	13.8	11.9	9.9	15.8	25.7	43.5	65.3	77.2
15.8	17.5°	13.8	5.9	2.0	0.0	0.0	4.0	11.9	31.7	53.4	63.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	39.6	49.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	23.7	33.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	17.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
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	5.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.8
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°
114.7	0°	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7
136.5	2.5°	140.5	138.5	134.5	130.6	130.6	130.6	136.5	142.4	148.4	148.4
122.6	5°	130.6	130.6	128.6	124.6	124.6	126.6	134.5	144.4	152.3	154.3
112.8	7.5°	120.7	124.6	120.7	118.7	120.7	122.6	130.6	142.4	154.3	158.3
104.8	10°	114.7	116.7	116.7	114.7	114.7	118.7	126.6	142.4	158.3	164.2
95.0	12.5°	106.8	110.8	108.8	108.8	108.8	112.8	122.6	140.5	162.2	170.1
85.1	15°	98.9	104.8	104.8	102.9	102.9	104.8	118.7	138.5	168.1	182.0
73.2	17.5°	91.0	96.9	98.9	95.0	95.0	98.9	112.8	138.5	172.1	195.8
59.3	20°	75.2	85.1	91.0	85.1	85.1	89.0	102.9	130.6	174.1	209.7
43.5	22.5°	59.3	69.2	77.2	75.2	75.2	77.2	95.0	124.6	176.1	233.4
25.7	25°	43.5	53.4	59.3	63.3	63.3	69.2	87.0	120.7	184.0	282.9
11.9	27.5°	25.7	37.6	45.5	49.5	51.4	59.3	81.1	116.7	197.8	354.1
0.0	30°	11.9	21.8	31.7	39.6	39.6	53.4	75.2	112.8	215.6	457.0
0.0	32.5°	0.0	9.9	15.8	27.7	29.7	43.5	69.2	108.8	241.3	555.9
0.0	35°	0.0	0.0	7.9	21.8	21.8	35.6	63.3	104.8	280.9	631.1
0.0	37.5°	0.0	0.0	0.0	15.8	17.8	31.7	61.3	102.9	288.8	637.0
0.0	40°	0.0	0.0	0.0	11.9	13.8	29.7	61.3	104.8	261.1	623.1
0.0	42.5°	0.0	0.0	0.0	7.9	9.9	29.7	61.3	108.8	235.4	639.0
0.0	45°	0.0	0.0	0.0	5.9	7.9	31.7	59.3	106.8	221.6	722.1
0.0	47.5°	0.0	0.0	0.0	7.9	11.9	31.7	57.4	104.8	223.5	997.0
0.0	50°	0.0	0.0	0.0	9.9	13.8	31.7	59.3	100.9	245.3	1533.1
0.0	52.5°	0.0	0.0	0.0	7.9	11.9	35.6	65.3	98.9	267.1	1994.0
0.0	55°	0.0	0.0	0.0	2.0	5.9	45.5	71.2	98.9	300.7	2108.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	51.4	81.1	104.8	356.1	2063.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	51.4	83.1	104.8	360.0	2023.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	51.4	91.0	116.7	387.7	1802.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	43.5	108.8	146.4	403.6	1416.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	35.6	128.6	160.2	415.4	1127.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	33.6	132.5	162.2	421.4	898.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	35.6	130.6	174.1	441.1	730.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	39.6	118.7	191.9	441.1	646.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	41.5	110.8	215.6	401.6	559.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	39.6	108.8	251.2	358.1	460.9
0.0	80°	4.0	5.9	5.9	4.0	4.0	33.6	106.8	255.2	304.6	316.5
2.0	82.5°	11.9	15.8	13.8	9.9	9.9	29.7	95.0	213.6	158.3	136.5
11.9	85°	21.8	25.7	25.7	21.8	21.8	27.7	59.3	77.2	53.4	43.5
21.8	87.5°	29.7	33.6	33.6	29.7	29.7	27.7	25.7	23.7	21.8	21.8
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: SP1-2407-184-6

Test Date: 10/10/2024

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

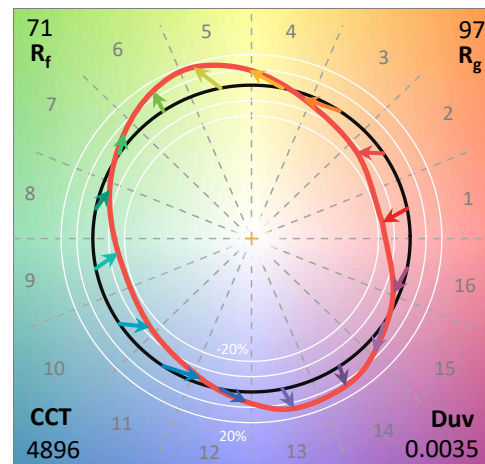
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

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

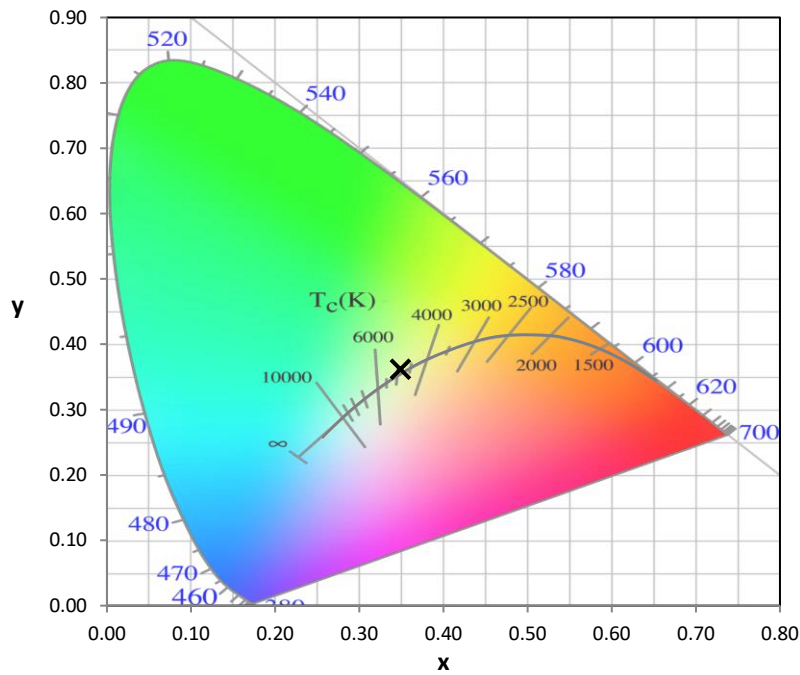
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

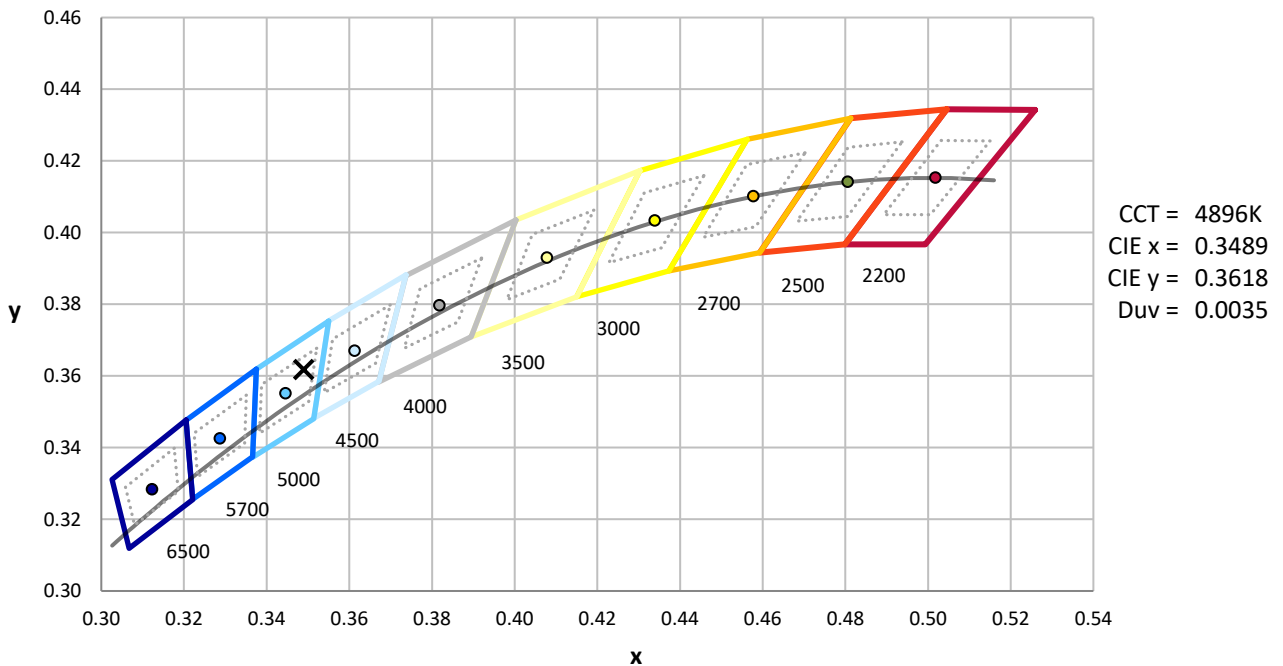
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



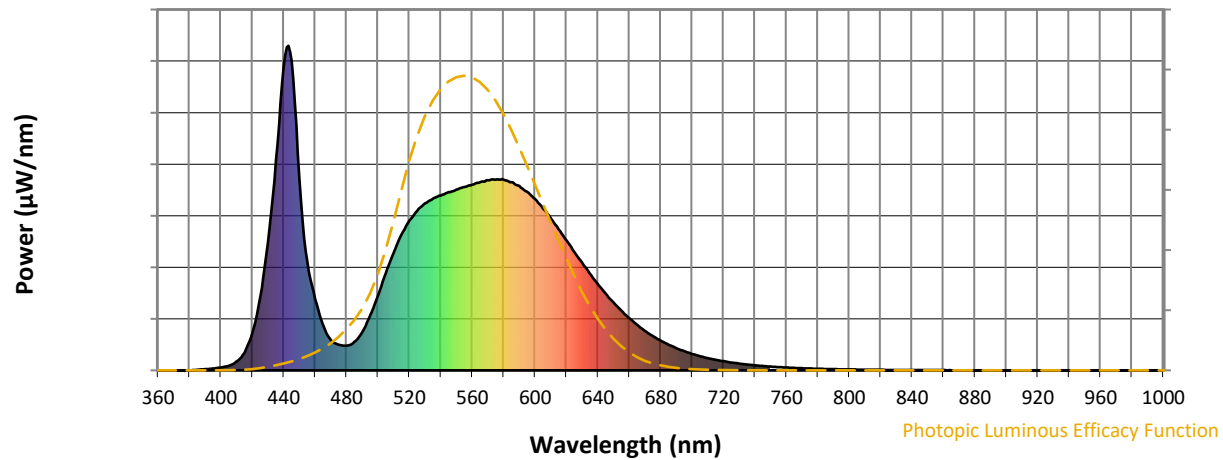
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

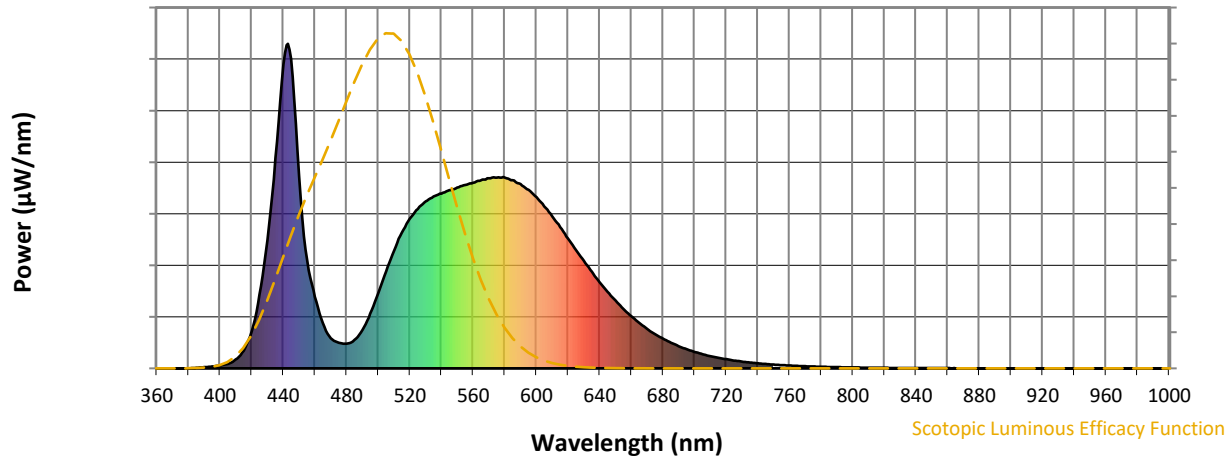


Photopic Lumens: NR

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



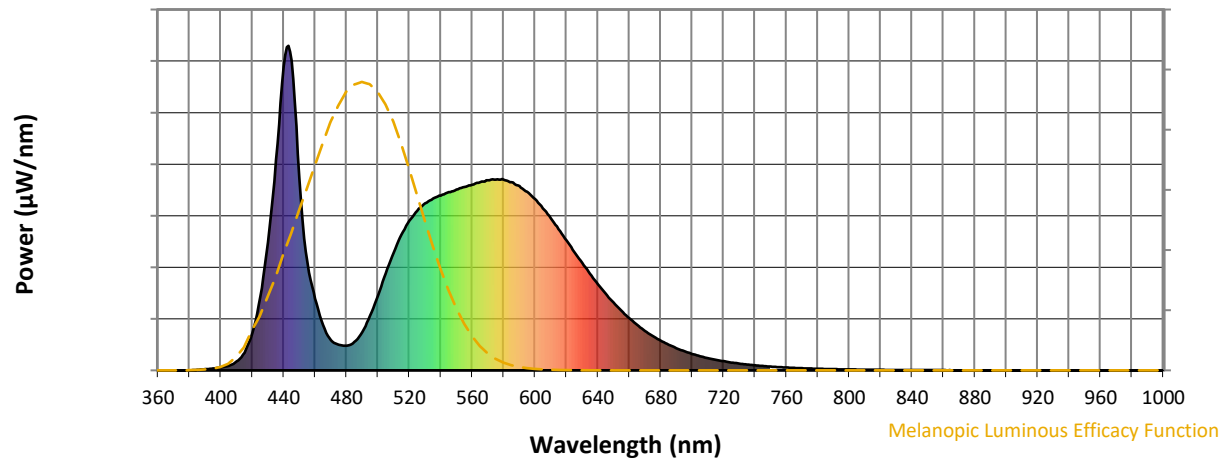
Scotopic Lumens: NR

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

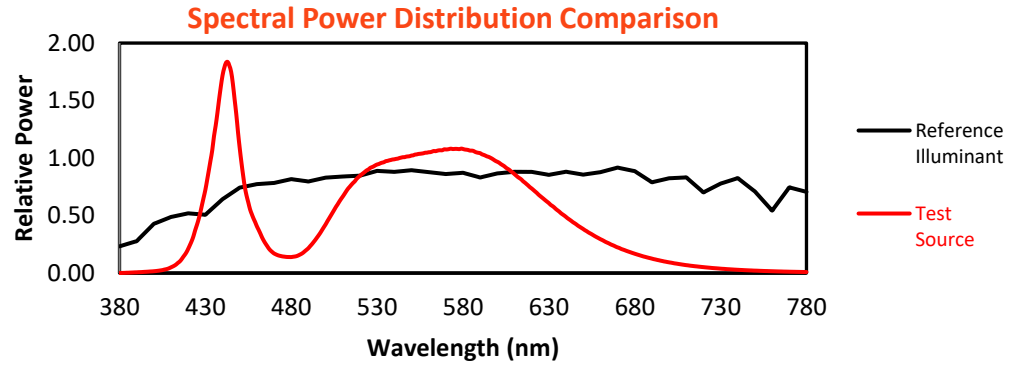
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	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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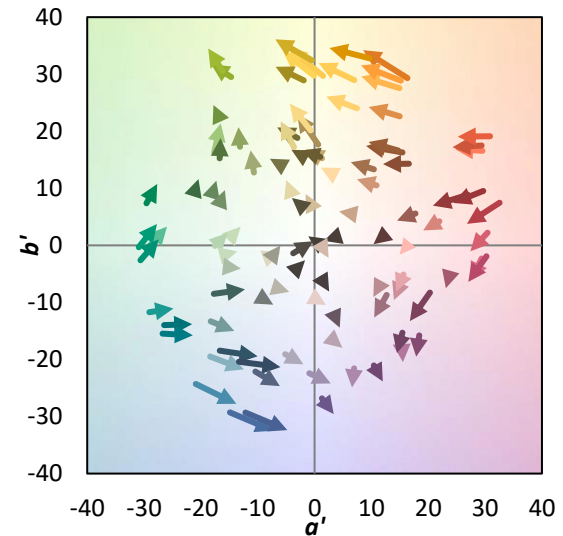
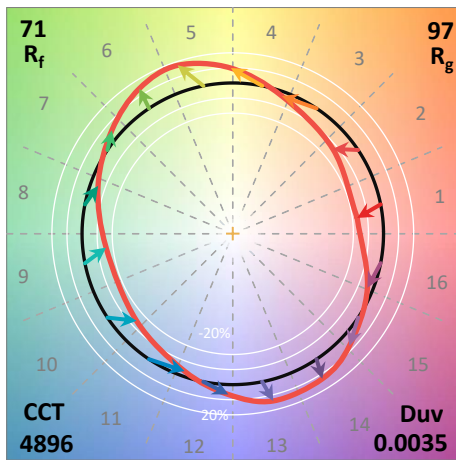
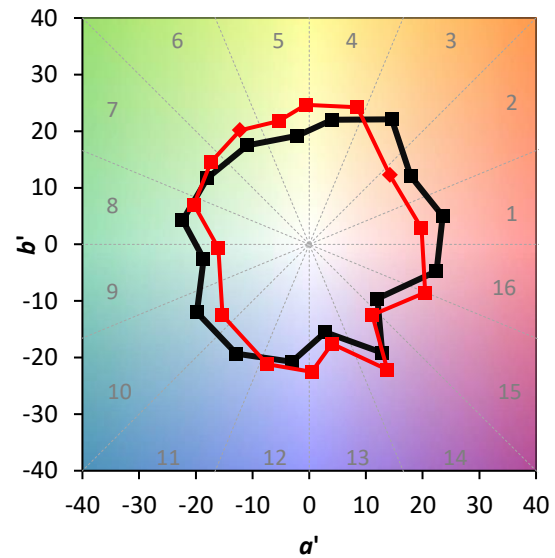
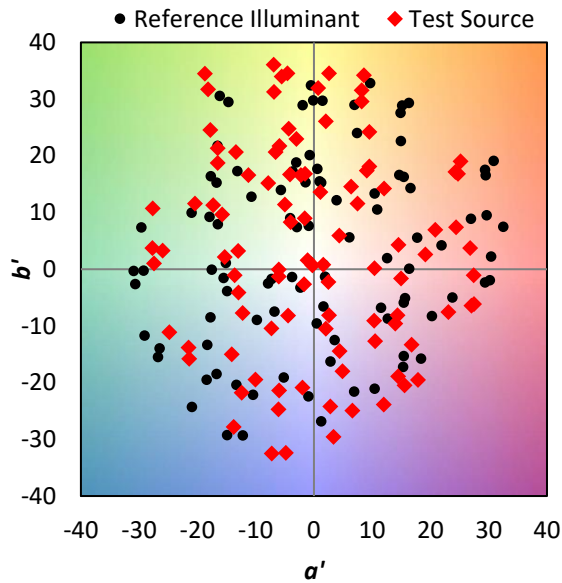
TM-30-18

Summary

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

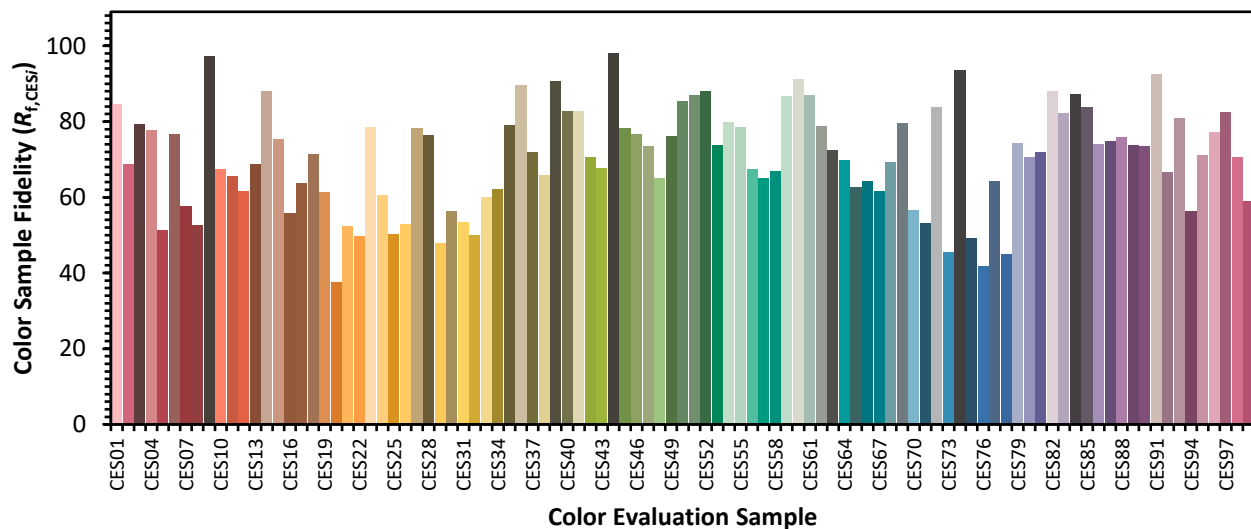


Color Vector Graphics

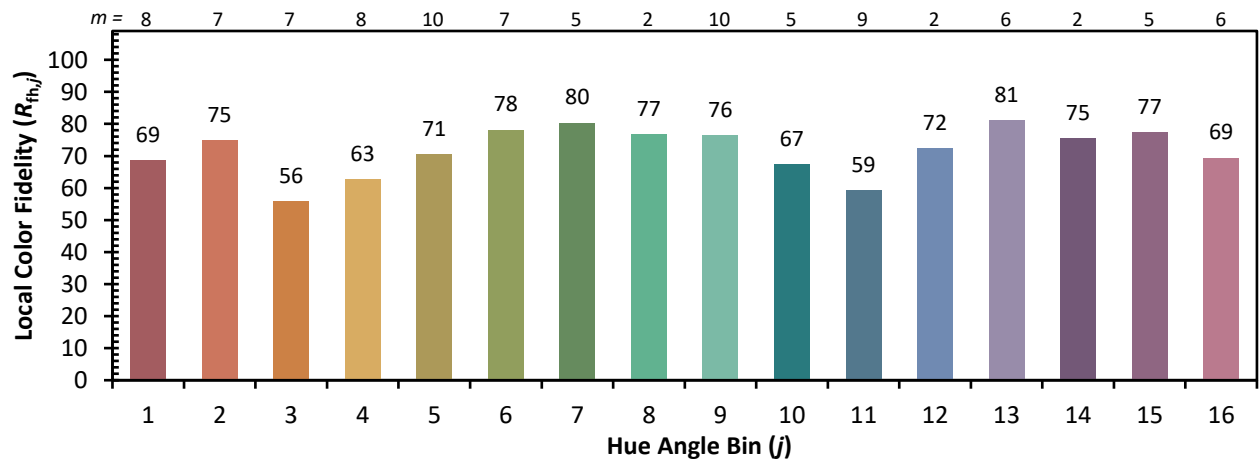
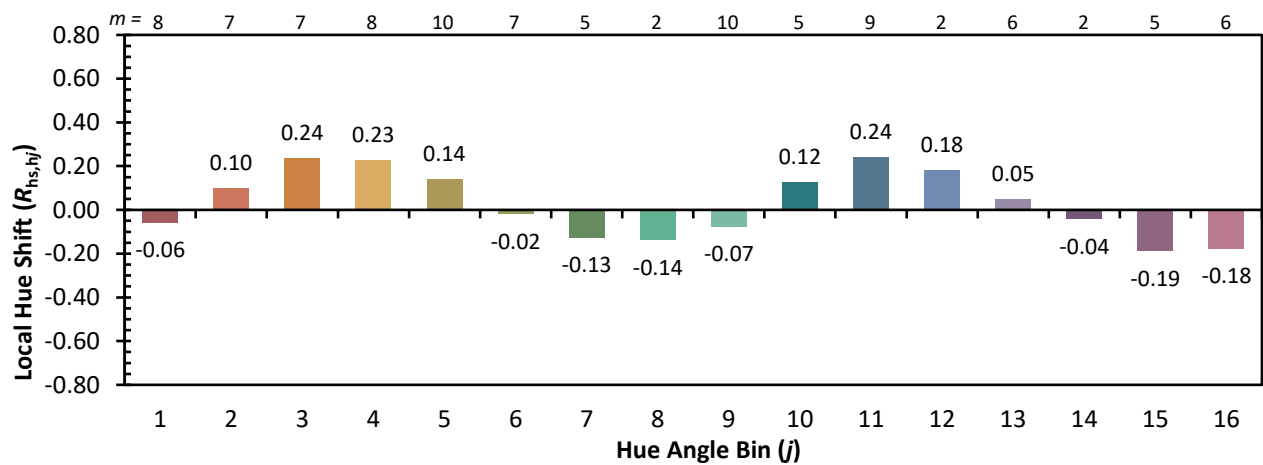
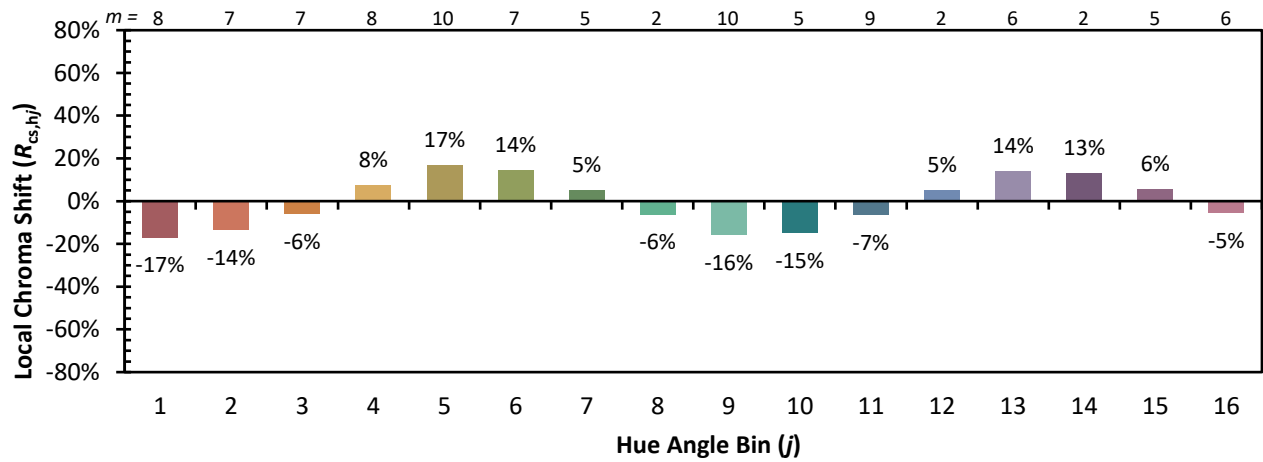


Individual Sample Fidelity Index ($R_{f,i}$)

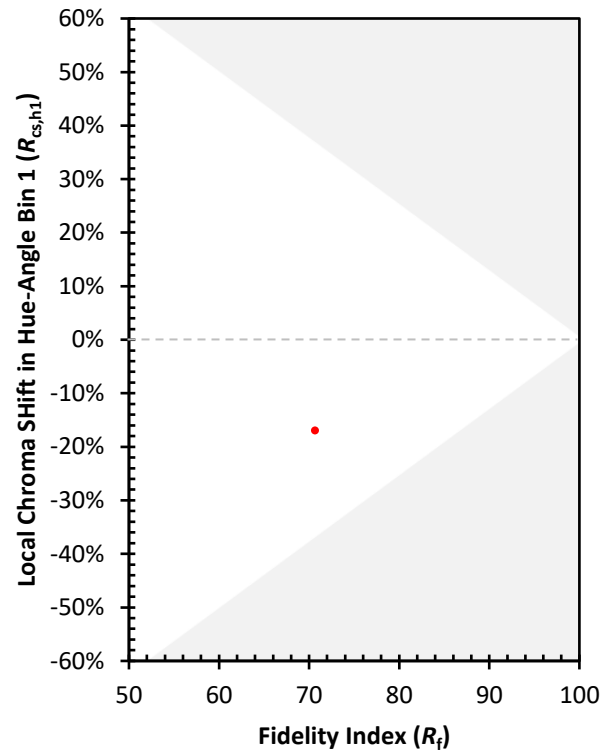
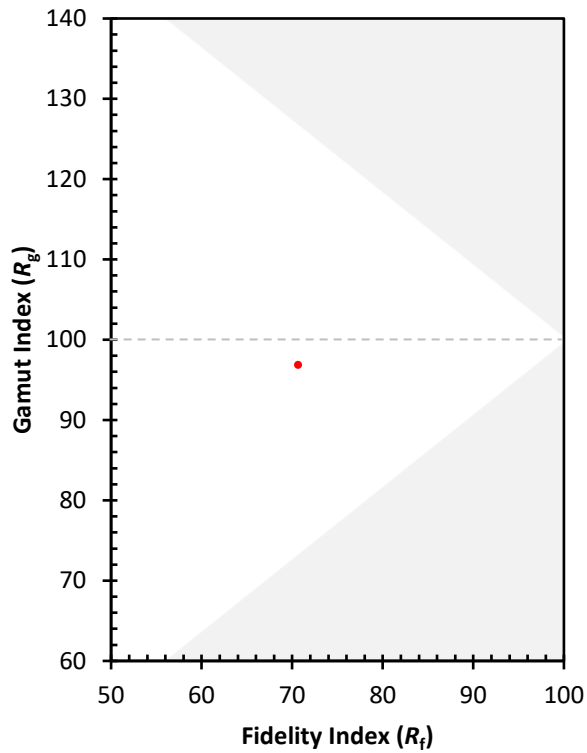
CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82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