

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: P1049613

Luminaire Tested: **GALN-SA3A-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049613
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9848.2 lumens
Efficiency: N/A
Efficacy: 121.0 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

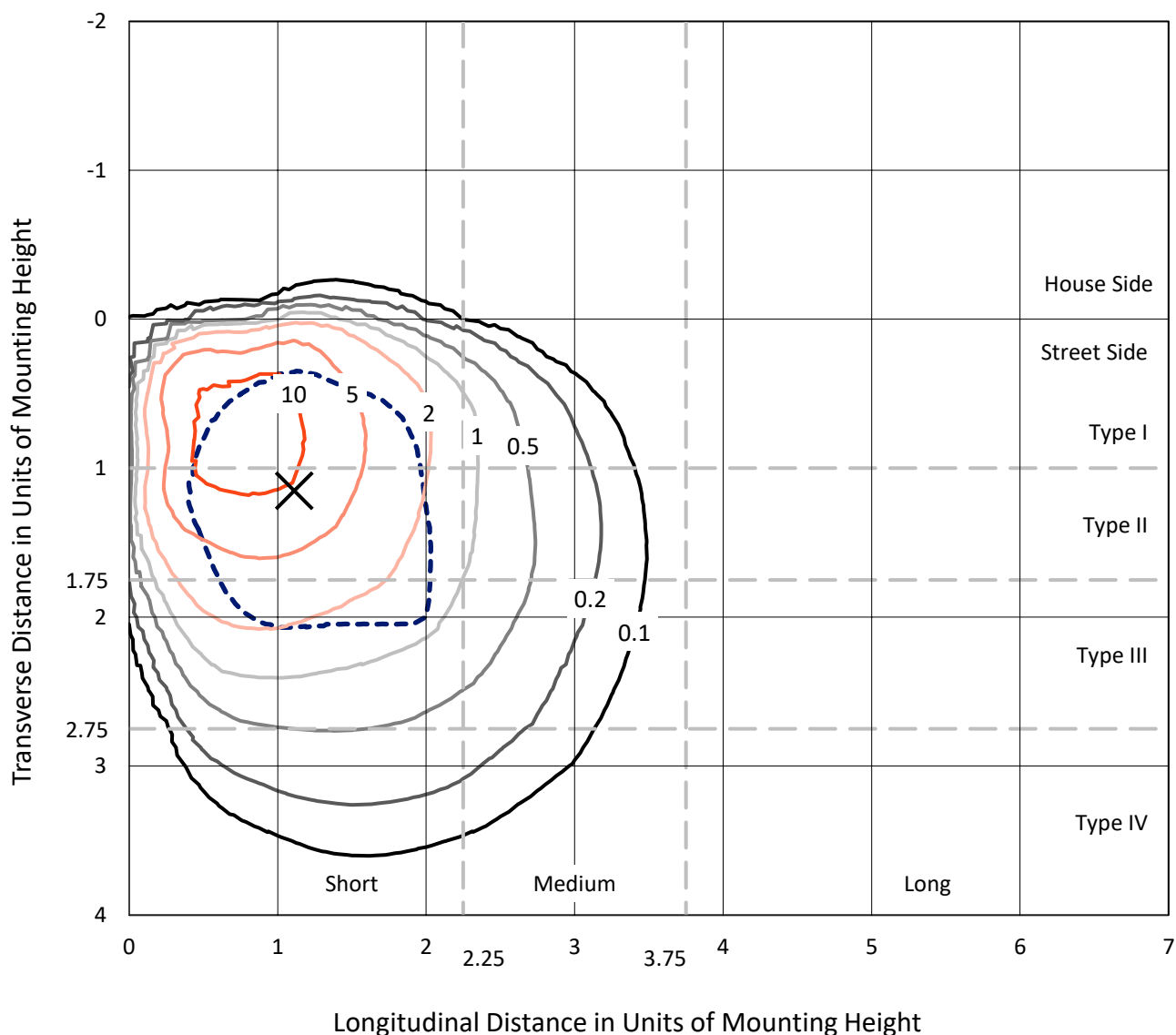
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

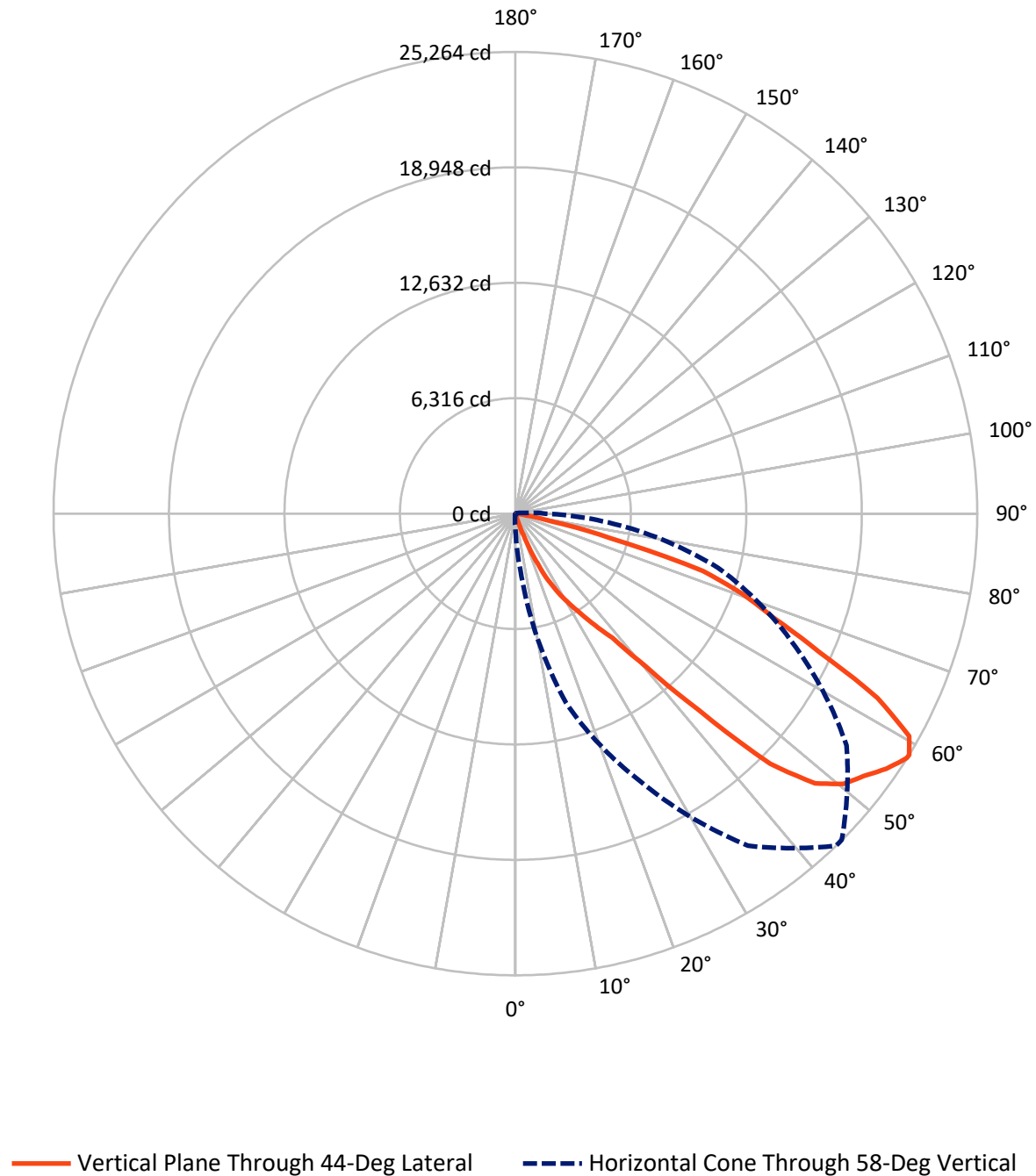


Based on 20 foot mounting height. Maximum calculated value = 17.1 fc

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	67.2	0.0	67.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9780.9	0.0	9780.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	9848.2	0.0	9848.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.0
10°-20°	21.6	0.2
20°-30°	233.3	2.4
30°-40°	690.0	7.0
40°-50°	2056.5	20.9
50°-60°	3263.1	33.1
60°-70°	2721.8	27.6
70°-80°	839.5	8.5
80°-90°	18.6	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°	9848.2	100.0
0°-180°	9848.2	100.0



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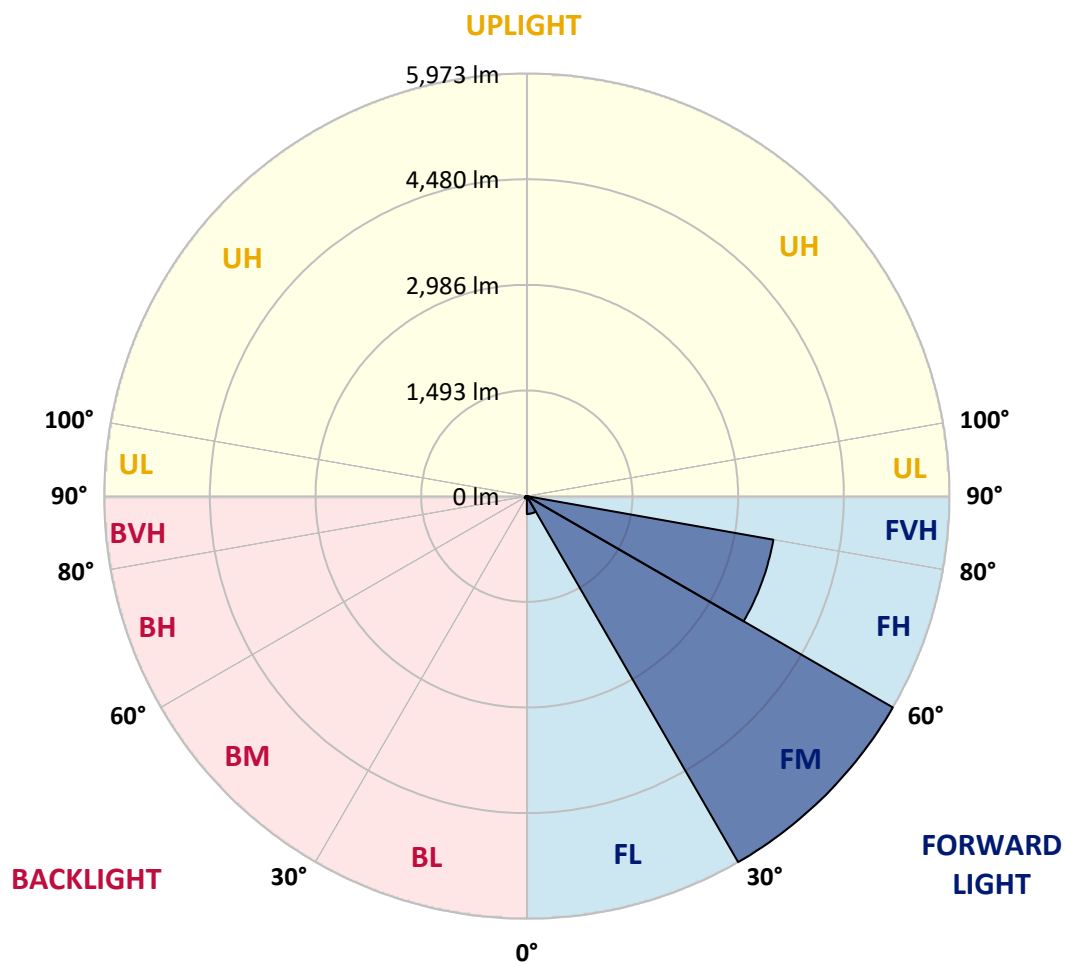
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.2	2.6			
FM	(30°-60°)	5972.7	60.6			
FH	(60°-80°)	3538.3	35.9			G2/5000
FVH	(80°-90°)	17.7	0.2			G1/100
BL	(0°-30°)	6.6	0.1	B0/110		
BM	(30°-60°)	36.8	0.4	B0/220		
BH	(60°-80°)	23.0	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°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2.5°	55.8	55.8	53.6	50.6	47.6	44.6	43.9	42.4	41.7	40.9
5°	58.0	58.0	57.3	55.1	52.1	49.8	49.8	47.6	46.1	44.6
7.5°	59.5	60.3	61.7	61.0	59.5	57.3	57.3	55.8	53.6	49.8
10°	61.7	64.0	67.0	68.4	69.2	69.2	68.4	67.7	64.0	58.8
12.5°	64.0	68.4	75.9	83.3	87.8	93.7	93.0	91.5	81.8	70.7
15°	68.4	75.1	90.8	112.3	145.8	166.6	174.8	167.4	135.4	95.2
17.5°	73.7	84.8	131.7	235.1	385.4	456.8	499.9	465.0	308.0	180.8
20°	78.9	103.4	244.8	609.3	999.9	1233.5	1298.2	1197.0	768.5	344.4
22.5°	87.8	145.1	496.2	1259.5	2154.5	2504.9	2571.1	2247.5	1451.4	680.0
25°	106.4	210.5	855.5	2052.5	3215.3	3806.8	3779.2	3355.2	2354.6	1086.2
27.5°	133.2	306.5	1293.7	2916.3	4231.6	4753.1	4815.6	4291.1	3138.7	1597.2
30°	171.9	424.8	1763.9	3608.1	5046.2	5610.1	5620.5	5078.2	3840.2	2045.8
32.5°	209.0	536.4	2175.3	4276.9	5848.9	6467.1	6513.2	5845.9	4364.0	2513.0
35°	237.3	609.3	2591.9	4864.7	6658.3	7510.1	7507.1	6714.8	4984.4	2930.4
37.5°	239.6	682.2	2969.1	5465.8	7683.5	8637.2	8731.7	7858.3	5734.3	3446.7
40°	234.3	764.0	3446.7	6403.1	9530.7	10994.0	11077.3	9976.3	7238.6	4330.5
42.5°	240.3	906.1	4221.9	8134.3	12598.0	14699.6	14860.3	13702.7	10003.8	6133.8
45°	271.5	1173.2	5845.9	11030.5	16970.1	19532.3	19478.7	17811.5	13221.4	8879.0
47.5°	374.9	1827.1	8253.3	13849.3	19764.4	22046.1	22092.2	20054.5	15099.1	10989.6
50°	576.6	2795.7	10276.1	15339.4	20965.9	23255.0	23211.8	20857.2	15812.6	12028.8
52.5°	749.9	3496.5	11290.9	15862.4	21119.9	23852.4	23849.4	21068.5	15923.4	12118.1
55°	793.0	3549.4	11299.0	15890.7	21465.0	24634.3	24732.5	21588.5	16067.0	11728.3
57.5°	775.9	3142.4	10827.4	16054.3	22079.5	25239.1	25244.3	22092.2	16431.5	11489.5
58°	761.1	3078.4	10732.2	16147.3	22185.2	25264.4	25251.7	22115.3	16728.3	11480.6
60°	677.7	2673.0	10360.9	16384.6	22028.2	24745.1	24626.8	21611.6	16684.5	11389.1
62.5°	532.7	2085.3	9995.6	16110.1	20345.4	22231.3	22280.4	19133.5	15210.0	10855.6
65°	424.0	1554.1	9233.8	14131.2	16753.6	18256.4	18439.4	15558.9	12695.4	9192.2
67.5°	337.8	1123.4	7746.0	11250.7	13257.1	15236.7	15369.9	13062.9	9835.7	7042.9
70°	274.5	759.6	5346.7	8228.0	10934.5	13160.4	13168.6	10851.9	7341.2	4614.7
72.5°	243.3	526.0	3103.7	6000.7	8866.3	10724.0	10507.5	8806.1	5642.1	2733.3
75°	210.5	348.9	1522.1	3668.4	5375.7	5412.2	5494.8	4085.0	2820.3	1299.7
77.5°	173.3	247.7	599.6	1002.1	1612.1	2063.7	2140.3	1621.8	938.1	319.9
80°	119.0	117.5	161.4	307.2	461.2	578.0	539.4	417.4	245.5	122.8
82.5°	51.3	55.8	72.9	87.8	71.4	69.2	66.2	42.4	32.7	25.3
85°	16.4	14.9	15.6	15.6	12.6	9.7	9.7	4.5	0.0	0.0
87.5°	8.2	6.7	6.7	6.0	3.7	1.5	0.7	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°
43.1	0°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
40.2	2.5°	39.4	39.4	37.9	36.5	35.7	34.2	33.5	32.7	32.0	31.2
43.1	5°	41.7	40.9	38.7	36.5	34.2	32.0	30.5	29.0	27.5	26.8
47.6	7.5°	45.4	43.9	39.4	35.7	32.7	29.8	28.3	26.0	24.6	22.3
52.8	10°	49.8	46.9	40.9	36.5	32.0	28.3	26.0	23.8	21.6	18.6
60.3	12.5°	55.8	50.6	43.1	35.7	30.5	26.0	23.8	20.8	18.6	16.4
69.9	15°	61.0	54.3	43.9	35.7	29.0	23.8	20.8	17.9	15.6	12.6
87.8	17.5°	68.4	57.3	43.1	33.5	26.8	20.8	17.9	15.6	11.9	7.4
130.2	20°	81.1	59.5	41.7	31.2	23.1	17.1	13.4	10.4	5.2	1.5
195.7	22.5°	101.2	65.5	40.2	28.3	20.1	13.4	8.9	3.7	0.0	0.0
297.6	25°	139.9	75.9	40.2	26.8	17.9	9.7	3.0	0.0	0.0	0.0
422.6	27.5°	186.0	90.0	40.2	23.1	14.1	5.2	0.0	0.0	0.0	0.0
575.8	30°	232.9	105.6	40.2	20.1	11.2	0.7	0.0	0.0	0.0	0.0
709.0	32.5°	277.5	119.0	40.9	17.1	7.4	0.0	0.0	0.0	0.0	0.0
893.5	35°	322.9	121.3	40.2	14.9	4.5	0.0	0.0	0.0	0.0	0.0
1119.6	37.5°	380.9	116.8	37.9	13.4	2.2	0.0	0.0	0.0	0.0	0.0
1473.0	40°	468.7	119.0	35.7	12.6	0.7	0.0	0.0	0.0	0.0	0.0
2103.1	42.5°	630.9	128.7	32.7	12.6	0.0	0.0	0.0	0.0	0.0	0.0
3350.0	45°	1090.6	172.6	29.8	13.4	0.0	0.0	0.0	0.0	0.0	0.0
5029.1	47.5°	1804.1	310.2	29.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0
6057.9	50°	2302.5	390.6	30.5	14.1	0.0	0.0	0.0	0.0	0.0	0.0
6186.6	52.5°	2298.8	435.2	32.0	14.9	3.0	0.0	0.0	0.0	0.0	0.0
5702.3	55°	2043.6	443.4	34.2	16.4	9.7	0.0	0.0	0.0	0.0	0.0
4900.4	57.5°	1708.1	404.7	39.4	20.1	17.9	0.0	0.0	0.0	0.0	0.0
4774.6	58°	1648.6	386.9	40.9	20.8	19.3	0.0	0.0	0.0	0.0	0.0
4141.5	60°	1351.0	315.4	52.1	26.0	26.0	0.0	0.0	0.0	0.0	0.0
3395.4	62.5°	932.9	275.3	59.5	33.5	26.8	0.0	0.0	0.0	0.0	0.0
2503.4	65°	659.9	248.5	64.7	35.7	21.6	0.0	0.0	0.0	0.0	0.0
1778.8	67.5°	493.2	229.1	71.4	36.5	11.2	0.0	0.0	0.0	0.0	0.0
1115.9	70°	377.9	215.0	87.8	38.7	3.0	0.0	0.0	0.0	0.0	0.0
665.1	72.5°	308.0	198.6	106.4	40.2	0.0	0.0	0.0	0.0	0.0	0.0
398.8	75°	255.2	179.3	102.7	43.9	0.0	0.0	0.0	0.0	0.0	0.0
212.8	77.5°	169.6	139.1	93.7	43.9	0.0	0.0	0.0	0.0	0.0	0.0
75.9	80°	59.5	55.1	72.9	38.7	0.0	0.0	0.0	0.0	0.0	0.0
15.6	82.5°	8.9	7.4	10.4	13.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
43.1	0°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
30.5	2.5°	30.5	30.5	29.8	30.5	30.5	32.0	35.7	40.9	46.9	49.1
26.0	5°	25.3	24.6	23.8	23.8	23.8	26.0	29.0	35.0	41.7	44.6
21.6	7.5°	20.8	20.1	19.3	18.6	18.6	20.1	23.8	30.5	37.2	40.2
17.9	10°	17.1	15.6	14.9	14.1	14.1	15.6	19.3	26.0	33.5	36.5
14.9	12.5°	14.1	11.9	10.4	9.7	8.9	11.2	14.9	20.8	29.0	32.7
11.2	15°	9.7	7.4	5.2	4.5	3.7	6.0	9.7	16.4	24.6	29.0
6.0	17.5°	5.2	2.2	0.7	0.0	0.0	1.5	4.5	11.9	20.1	23.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	14.9	18.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.9	12.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	6.7
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	2.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0
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°
43.1	0°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
51.3	2.5°	52.8	52.1	50.6	49.1	49.1	49.1	51.3	53.6	55.8	55.8
46.1	5°	49.1	49.1	48.4	46.9	46.9	47.6	50.6	54.3	57.3	58.0
42.4	7.5°	45.4	46.9	45.4	44.6	45.4	46.1	49.1	53.6	58.0	59.5
39.4	10°	43.1	43.9	43.9	43.1	43.1	44.6	47.6	53.6	59.5	61.7
35.7	12.5°	40.2	41.7	40.9	40.9	40.9	42.4	46.1	52.8	61.0	64.0
32.0	15°	37.2	39.4	39.4	38.7	38.7	39.4	44.6	52.1	63.2	68.4
27.5	17.5°	34.2	36.5	37.2	35.7	35.7	37.2	42.4	52.1	64.7	73.7
22.3	20°	28.3	32.0	34.2	32.0	32.0	33.5	38.7	49.1	65.5	78.9
16.4	22.5°	22.3	26.0	29.0	28.3	28.3	29.0	35.7	46.9	66.2	87.8
9.7	25°	16.4	20.1	22.3	23.8	23.8	26.0	32.7	45.4	69.2	106.4
4.5	27.5°	9.7	14.1	17.1	18.6	19.3	22.3	30.5	43.9	74.4	133.2
0.0	30°	4.5	8.2	11.9	14.9	14.9	20.1	28.3	42.4	81.1	171.9
0.0	32.5°	0.0	3.7	6.0	10.4	11.2	16.4	26.0	40.9	90.8	209.0
0.0	35°	0.0	0.0	3.0	8.2	8.2	13.4	23.8	39.4	105.6	237.3
0.0	37.5°	0.0	0.0	0.0	6.0	6.7	11.9	23.1	38.7	108.6	239.6
0.0	40°	0.0	0.0	0.0	4.5	5.2	11.2	23.1	39.4	98.2	234.3
0.0	42.5°	0.0	0.0	0.0	3.0	3.7	11.2	23.1	40.9	88.5	240.3
0.0	45°	0.0	0.0	0.0	2.2	3.0	11.9	22.3	40.2	83.3	271.5
0.0	47.5°	0.0	0.0	0.0	3.0	4.5	11.9	21.6	39.4	84.1	374.9
0.0	50°	0.0	0.0	0.0	3.7	5.2	11.9	22.3	37.9	92.2	576.6
0.0	52.5°	0.0	0.0	0.0	3.0	4.5	13.4	24.6	37.2	100.4	749.9
0.0	55°	0.0	0.0	0.0	0.7	2.2	17.1	26.8	37.2	113.1	793.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.3	30.5	39.4	133.9	775.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.3	31.2	39.4	135.4	761.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.3	34.2	43.9	145.8	677.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.4	40.9	55.1	151.8	532.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.4	48.4	60.3	156.2	424.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.6	49.8	61.0	158.5	337.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.4	49.1	65.5	165.9	274.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	14.9	44.6	72.2	165.9	243.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	15.6	41.7	81.1	151.0	210.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	14.9	40.9	94.5	134.7	173.3
0.0	80°	1.5	2.2	2.2	1.5	1.5	12.6	40.2	96.0	114.6	119.0
0.7	82.5°	4.5	6.0	5.2	3.7	3.7	11.2	35.7	80.3	59.5	51.3
4.5	85°	8.2	9.7	9.7	8.2	8.2	10.4	22.3	29.0	20.1	16.4
8.2	87.5°	11.2	12.6	12.6	11.2	11.2	10.4	9.7	8.9	8.2	8.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-5

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-735-U-5WQ

Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

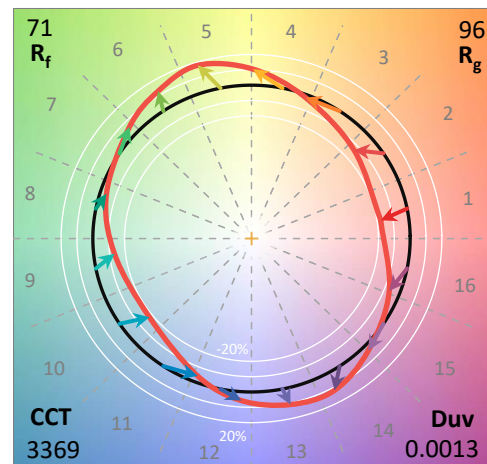
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-5
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-735-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3369
 CIE u' : 0.2386
 CIE v' : 0.5156
 Duv: 0.0013
 CIE x: 0.4143
 CIE y: 0.3980
 CIE z: 0.1877
 Peak Wavelength (nm): 590
 Dominant Wavelength (nm): 580
 Purity: 43.80166
 R_f: 71.4
 R_g: 96

CRI (Ra): 70.1
 R1: 66.6
 R2: 77.6
 R3: 88.5
 R4: 69.5
 R5: 66.4
 R6: 69.6
 R7: 77.5
 R8: 44.9
 R9: -40.2
 R10: 49.1
 R11: 66.3
 R12: 45.7
 R13: 68.0
 R14: 93.4
 R15: 57.6



Test Conditions

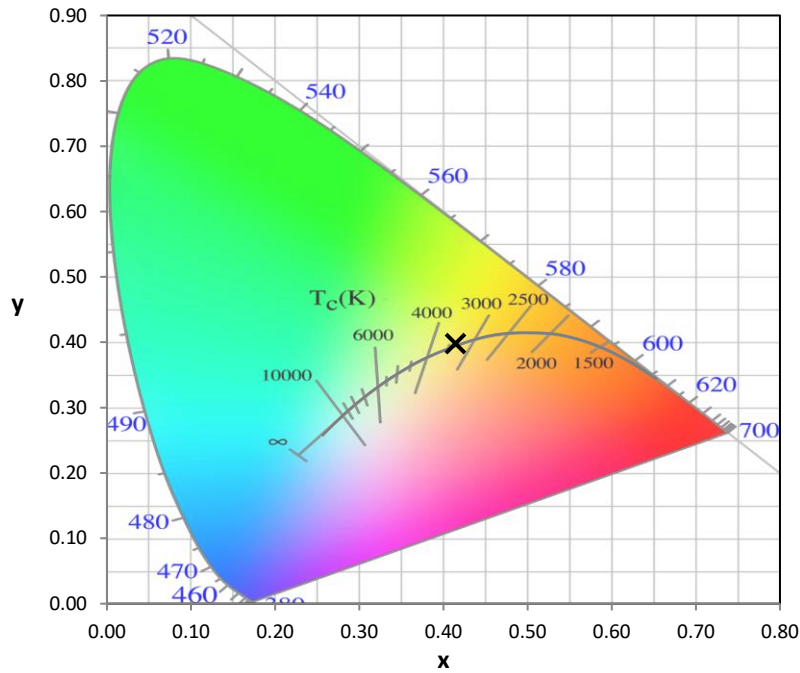
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

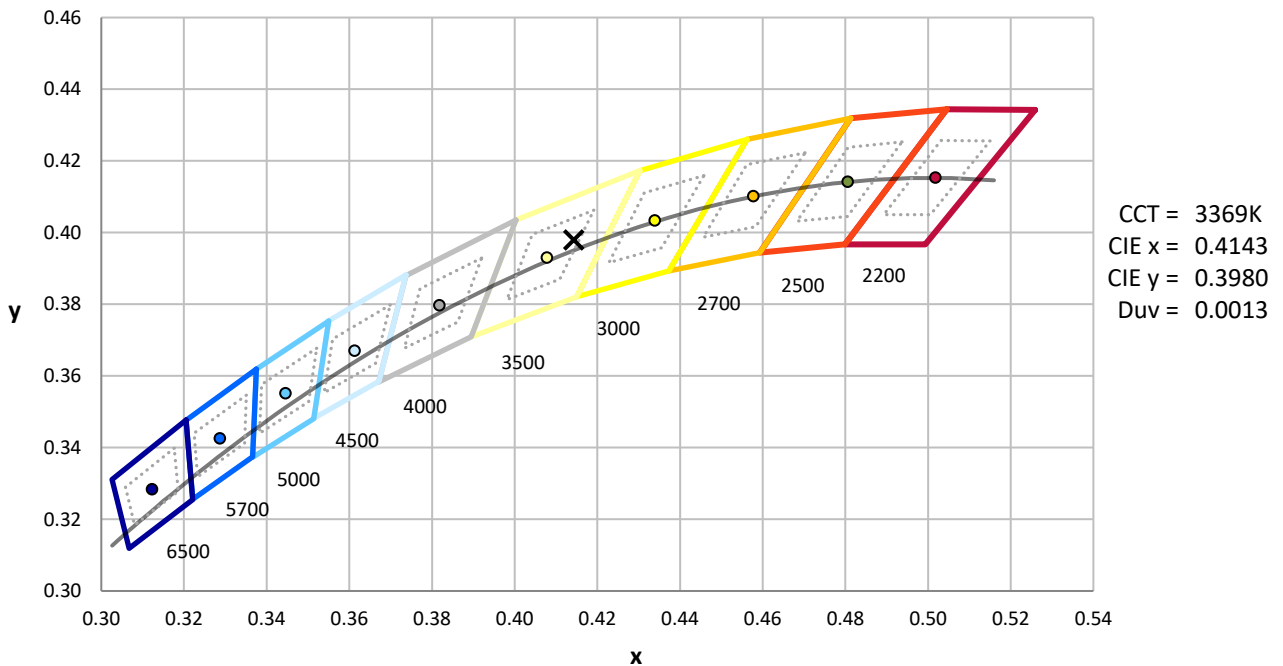
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-5

CIE 1931 Chromaticity Diagram



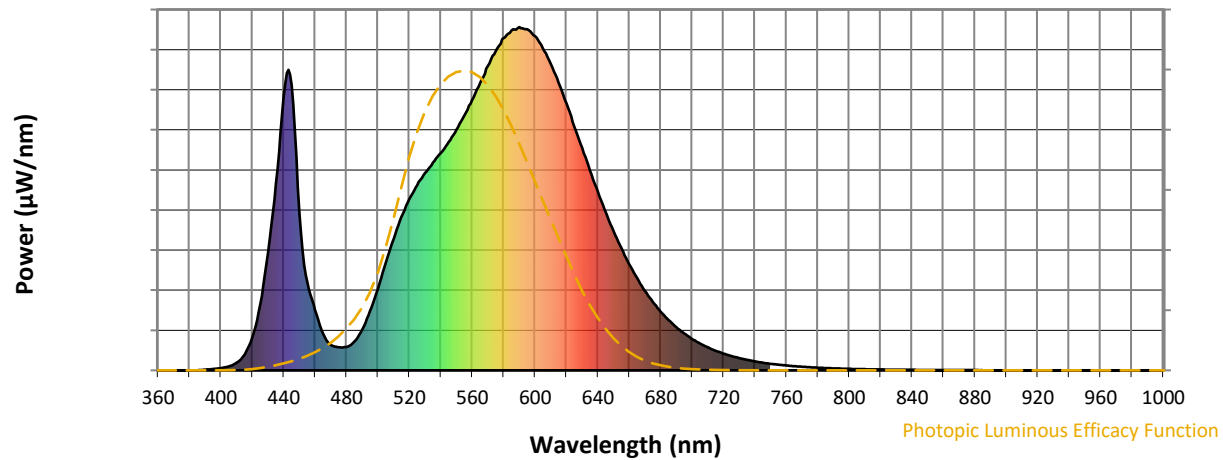
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

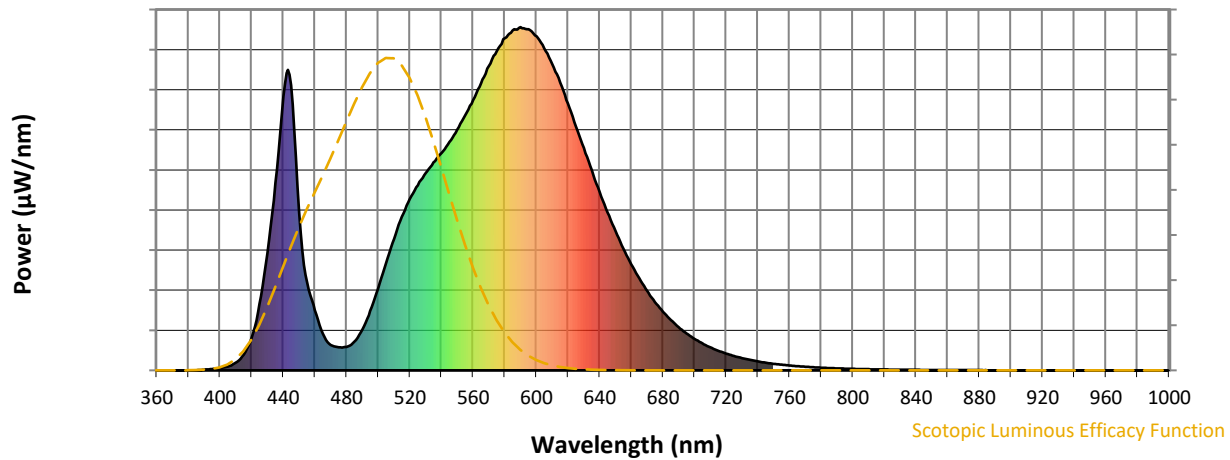


Photopic Lumens: NR

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	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

Scotopic Flux vs. Wavelength



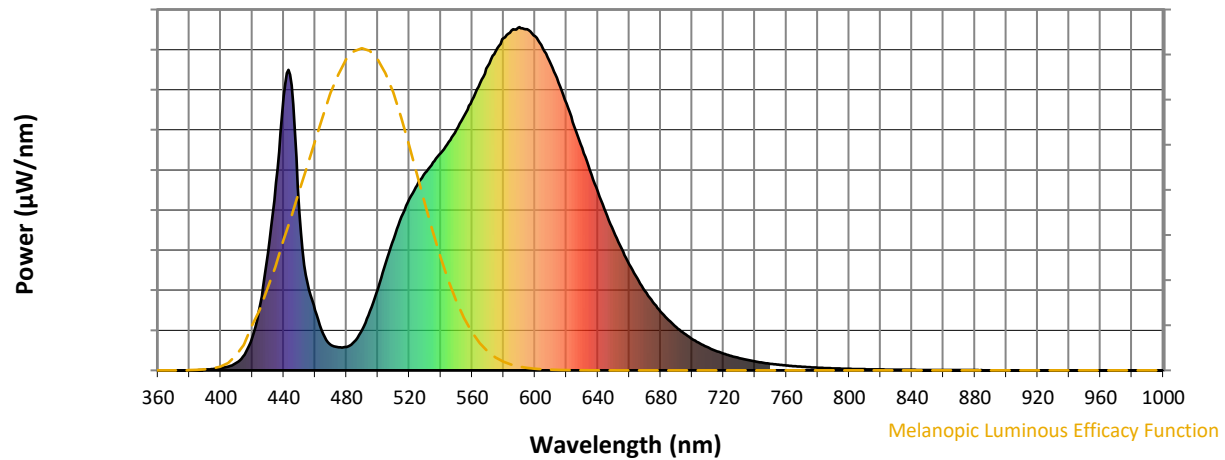
Scotopic Lumens: NR

S/P: 1.29

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

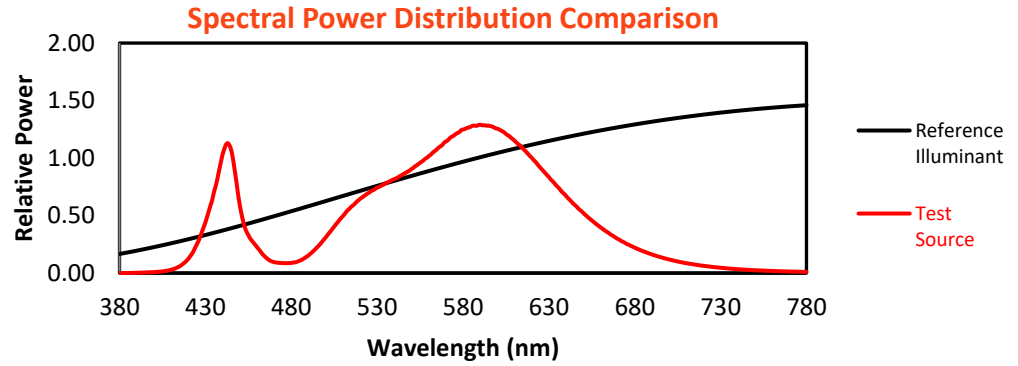
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	NR	750	19	NR	880	1	NR
365	0	NR	495	173	NR	625	711	NR	755	16	NR	885	0	NR
370	0	NR	500	239	NR	630	648	NR	760	14	NR	890	0	NR
375	0	NR	505	313	NR	635	582	NR	765	12	NR	895	0	NR
380	0	NR	510	383	NR	640	520	NR	770	11	NR	900	0	NR
385	0	NR	515	448	NR	645	460	NR	775	9	NR	905	0	NR
390	2	NR	520	500	NR	650	406	NR	780	8	NR	910	0	NR
395	4	NR	525	539	NR	655	355	NR	785	7	NR	915	0	NR
400	6	NR	530	575	NR	660	309	NR	790	6	NR	920	0	NR
405	11	NR	535	606	NR	665	269	NR	795	5	NR	925	0	NR
410	22	NR	540	633	NR	670	231	NR	800	4	NR	930	0	NR
415	45	NR	545	666	NR	675	199	NR	805	4	NR	935	0	NR
420	96	NR	550	701	NR	680	171	NR	810	3	NR	940	0	NR
425	193	NR	555	743	NR	685	147	NR	815	3	NR	945	0	NR
430	341	NR	560	788	NR	690	126	NR	820	3	NR	950	0	NR
435	547	NR	565	837	NR	695	107	NR	825	2	NR	955	0	NR
440	799	NR	570	887	NR	700	92	NR	830	2	NR	960	0	NR
445	831	NR	575	931	NR	705	78	NR	835	2	NR	965	0	NR
450	461	NR	580	967	NR	710	67	NR	840	2	NR	970	0	NR
455	256	NR	585	990	NR	715	57	NR	845	1	NR	975	0	NR
460	176	NR	590	1000	NR	720	49	NR	850	1	NR	980	0	NR
465	107	NR	595	994	NR	725	42	NR	855	1	NR	985	0	NR
470	74	NR	600	973	NR	730	36	NR	860	1	NR	990	0	NR
475	67	NR	605	938	NR	735	31	NR	865	1	NR	995	0	NR
480	68	NR	610	892	NR	740	26	NR	870	1	NR	1000	0	NR
485	84	NR	615	838	NR	745	22	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-5

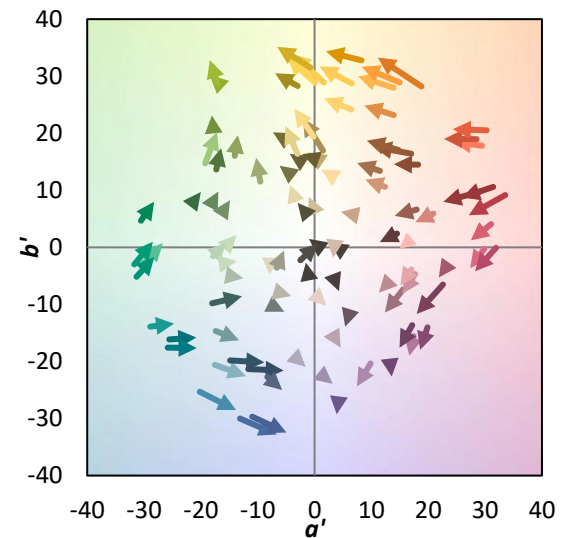
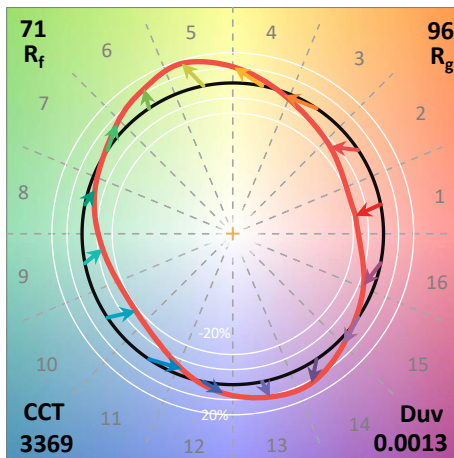
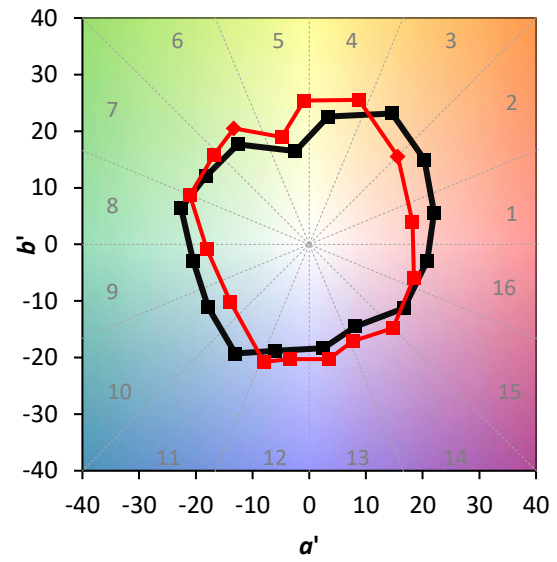
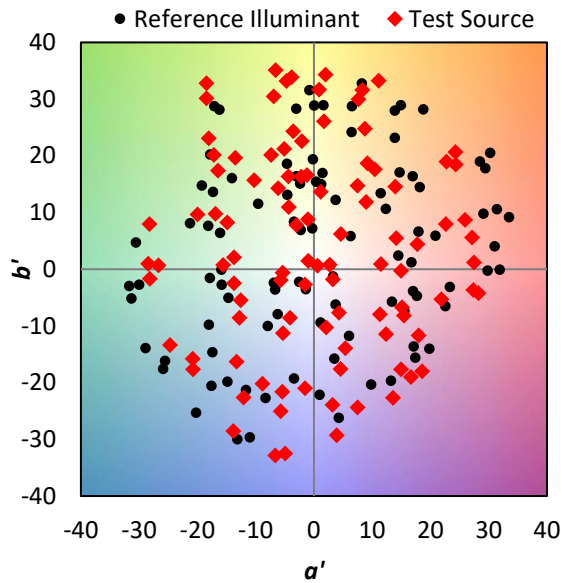
TM-30-18

Summary

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

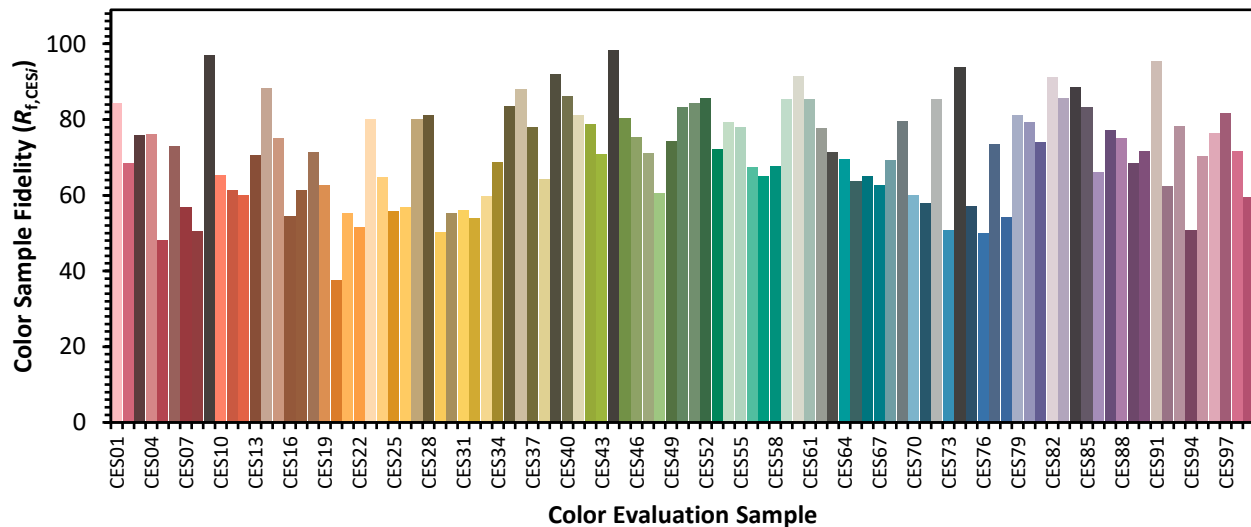


Color Vector Graphics

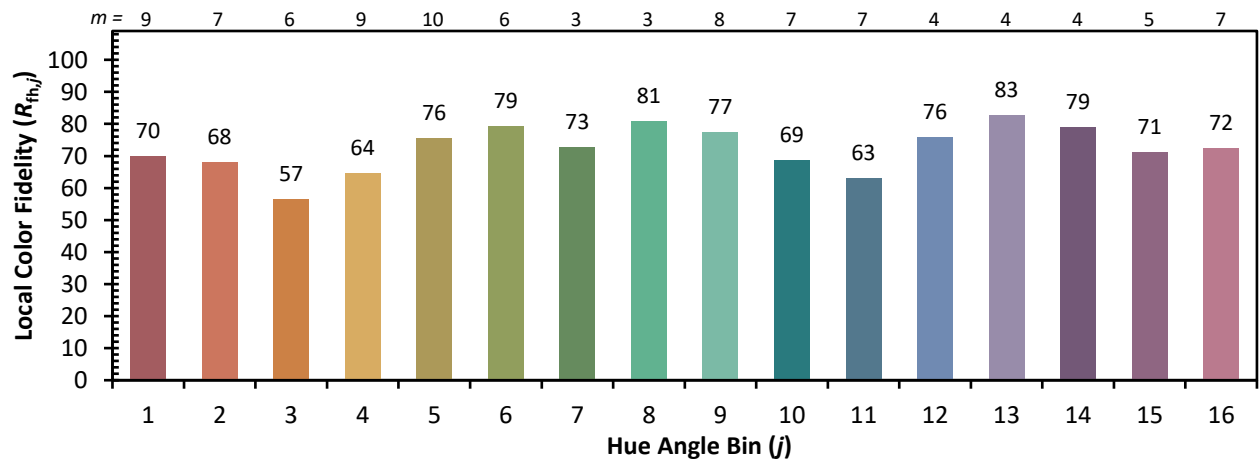
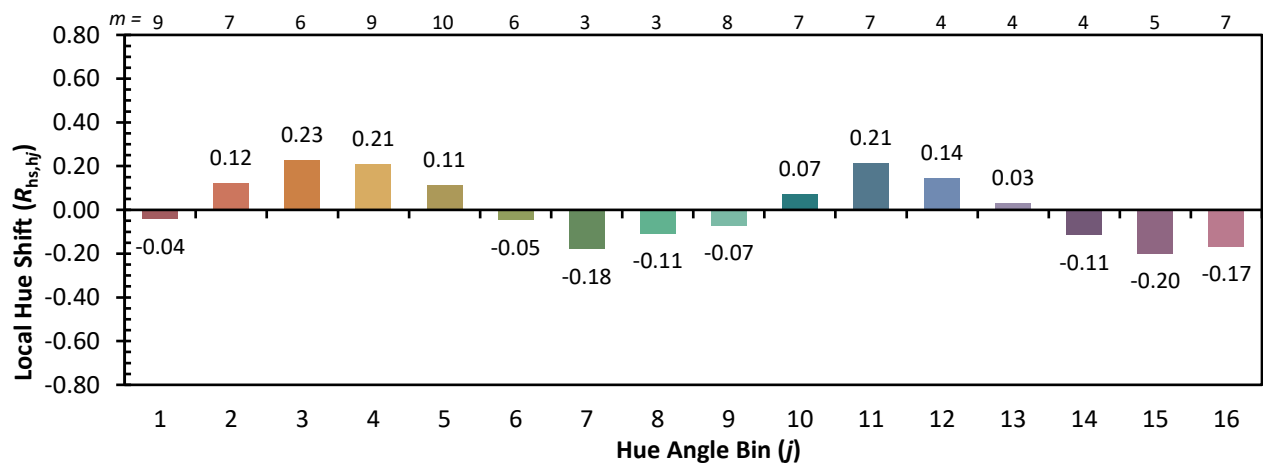
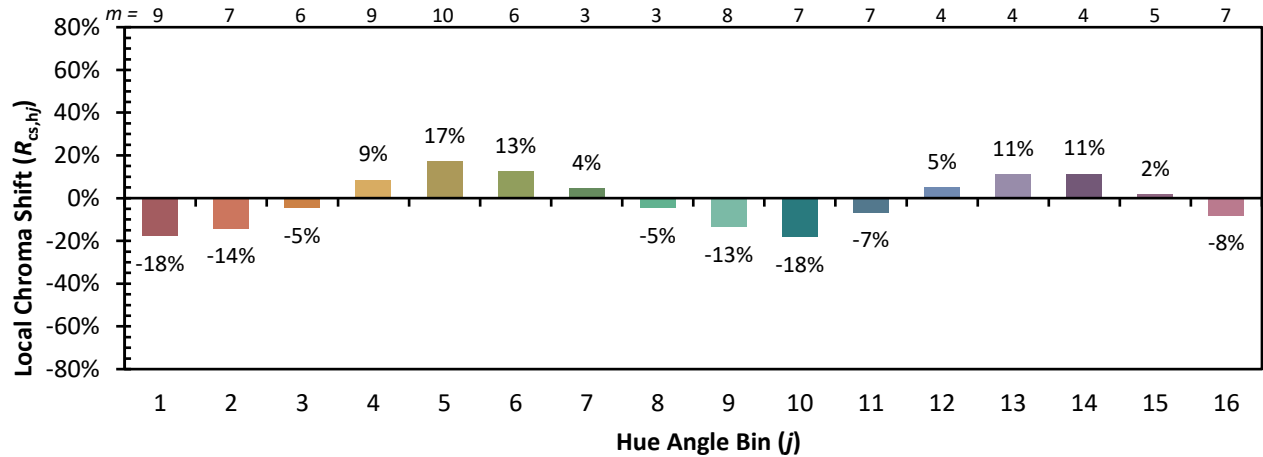


Individual Sample Fidelity Index ($R_{f,i}$)

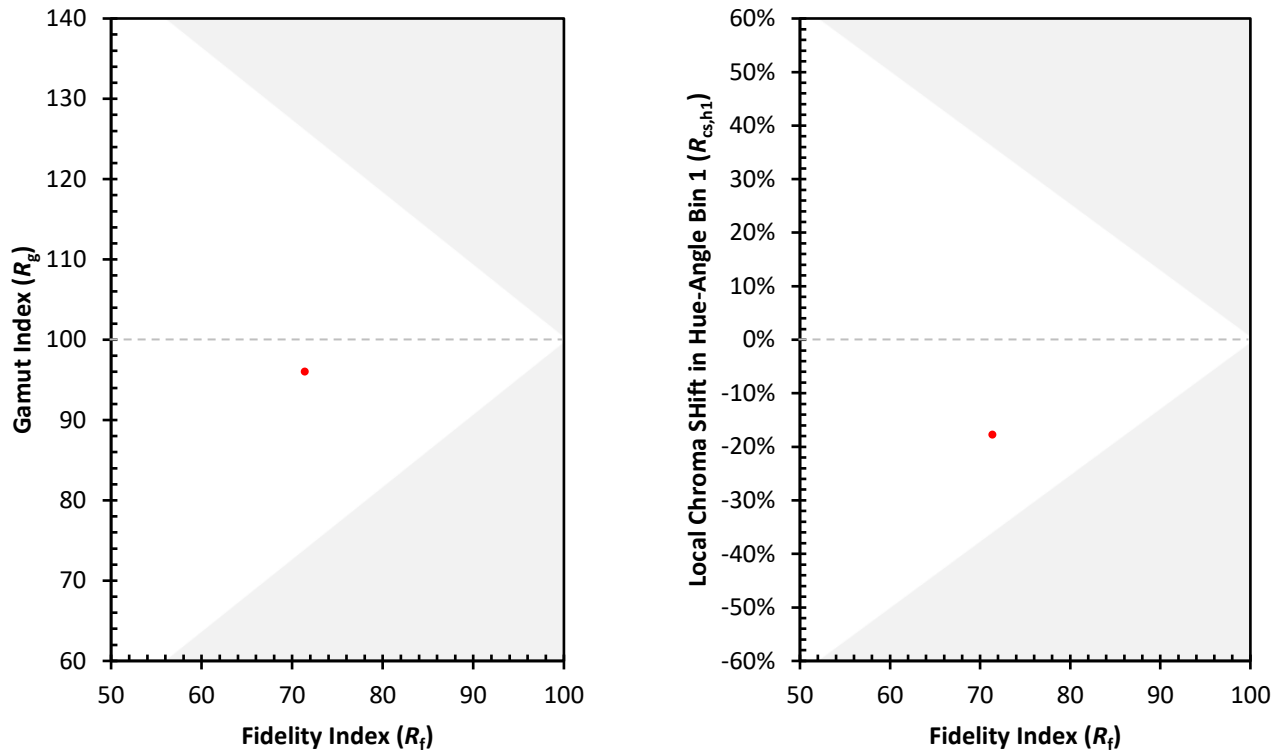
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 91
CES08 = 39	CES33 = 60	CES58 = 68	CES83 = 86
CES09 = 29	CES34 = 69	CES59 = 85	CES84 = 89
CES10 = 75	CES35 = 83	CES60 = 91	CES85 = 83
CES11 = 58	CES36 = 88	CES61 = 85	CES86 = 66
CES12 = 64	CES37 = 78	CES62 = 78	CES87 = 77
CES13 = 43	CES38 = 64	CES63 = 71	CES88 = 75
CES14 = 74	CES39 = 92	CES64 = 70	CES89 = 68
CES15 = 71	CES40 = 86	CES65 = 64	CES90 = 72
CES16 = 47	CES41 = 81	CES66 = 65	CES91 = 95
CES17 = 50	CES42 = 79	CES67 = 63	CES92 = 62
CES18 = 56	CES43 = 71	CES68 = 69	CES93 = 78
CES19 = 72	CES44 = 98	CES69 = 80	CES94 = 51
CES20 = 65	CES45 = 80	CES70 = 60	CES95 = 70
CES21 = 87	CES46 = 75	CES71 = 58	CES96 = 76
CES22 = 79	CES47 = 71	CES72 = 85	CES97 = 82
CES23 = 92	CES48 = 61	CES73 = 51	CES98 = 72
CES24 = 91	CES49 = 74	CES74 = 94	CES99 = 60
CES25 = 72	CES50 = 83	CES75 = 57	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)