

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: P1049639

Luminaire Tested: **GALN-SA9C-735-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049639
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
70CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44256 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

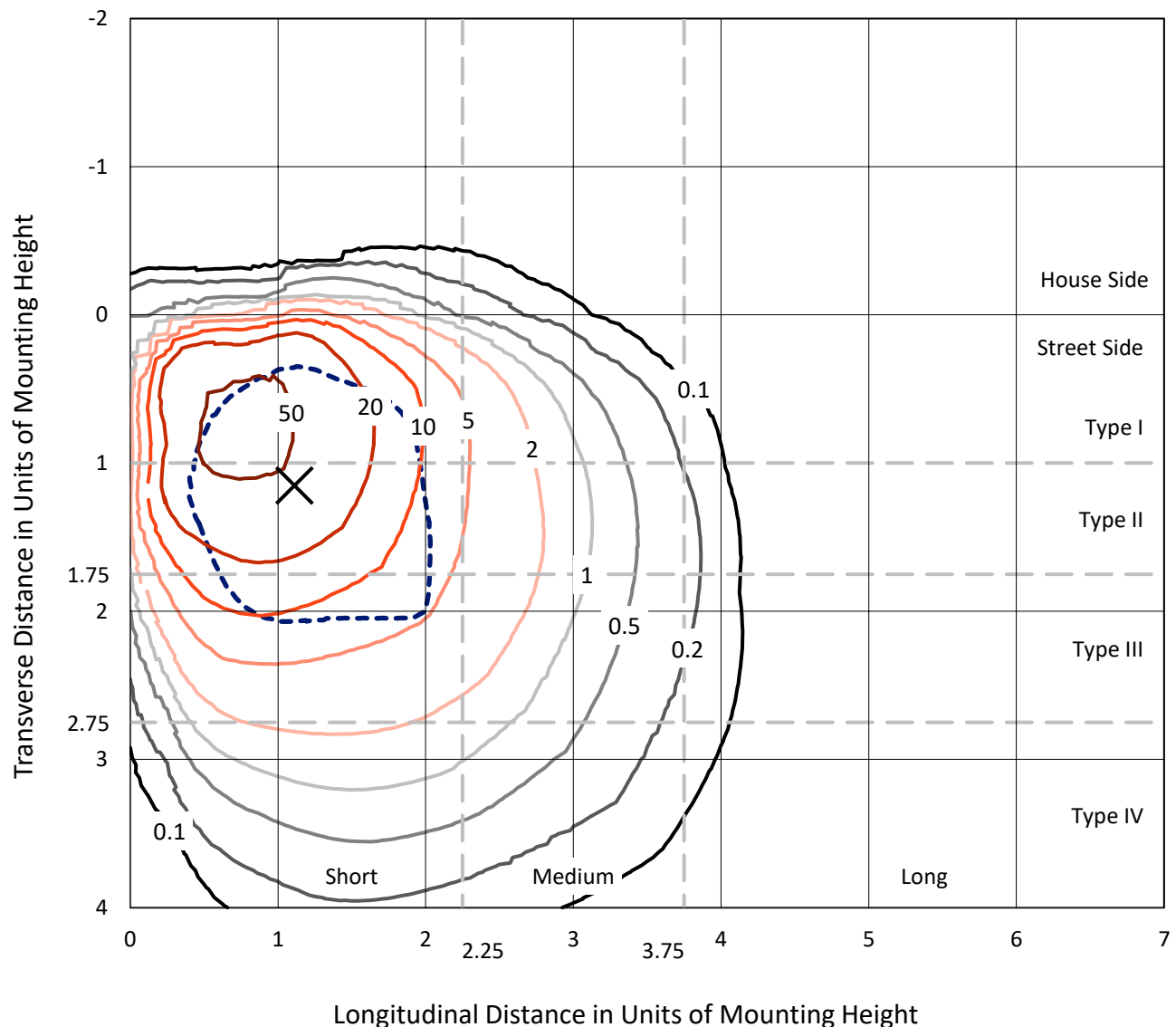
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049639

CATALOG NUMBER: GALN-SA9C-735-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

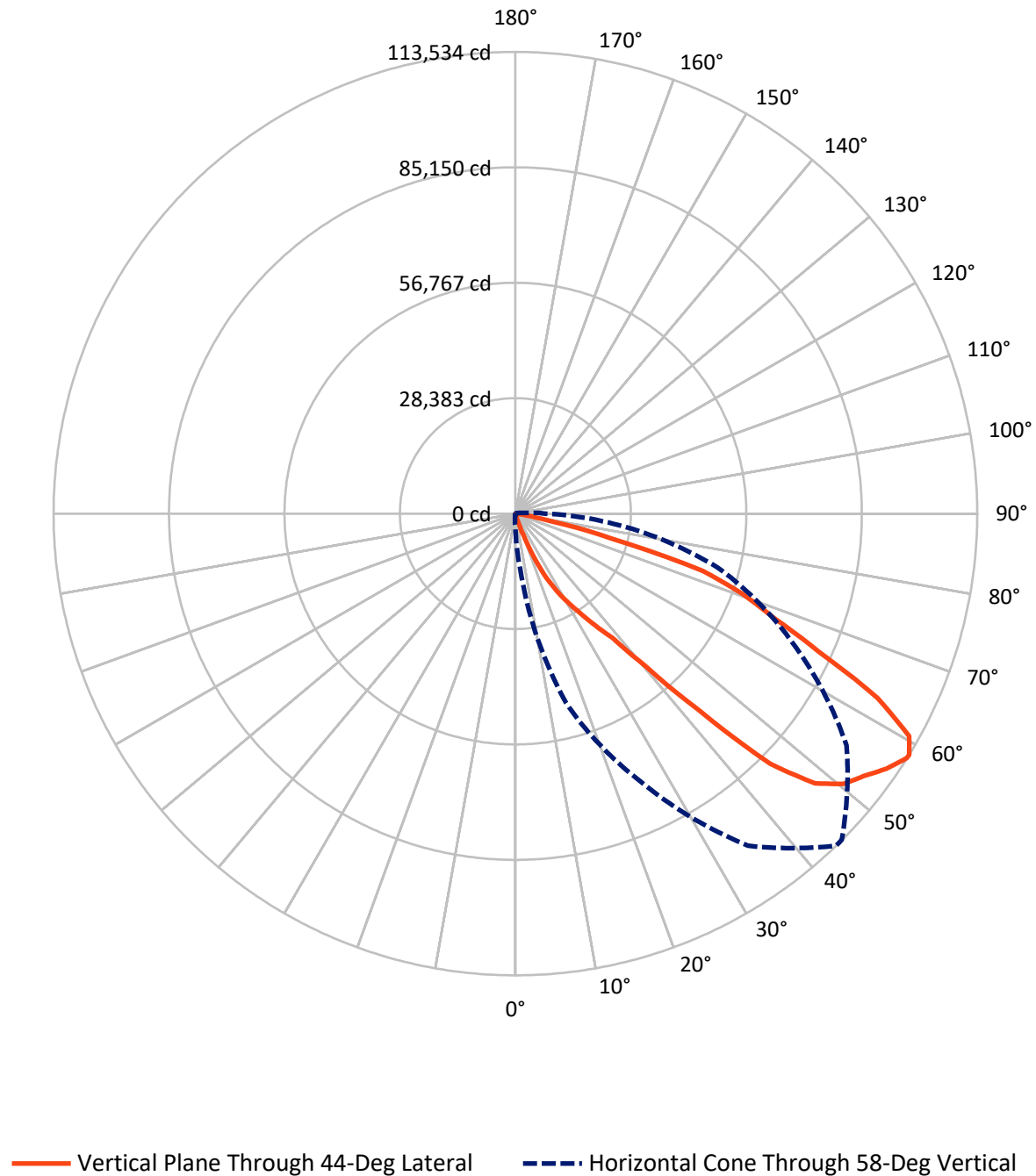
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77 fc
 Type III - Short - N/A

REPORT NUMBER: P1049639
CATALOG NUMBER: GALN-SA9C-735-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049639

CATALOG NUMBER: GALN-SA9C-735-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.2	0.0	302.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	43953.8	0.0	43953.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	44256.0	0.0	44256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	0.0
10°-20°	97.1	0.2
20°-30°	1048.4	2.4
30°-40°	3100.6	7.0
40°-50°	9241.4	20.9
50°-60°	14663.8	33.1
60°-70°	12231.3	27.6
70°-80°	3772.3	8.5
80°-90°	83.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44256.0	100.0
0°-180°	44256.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1049639

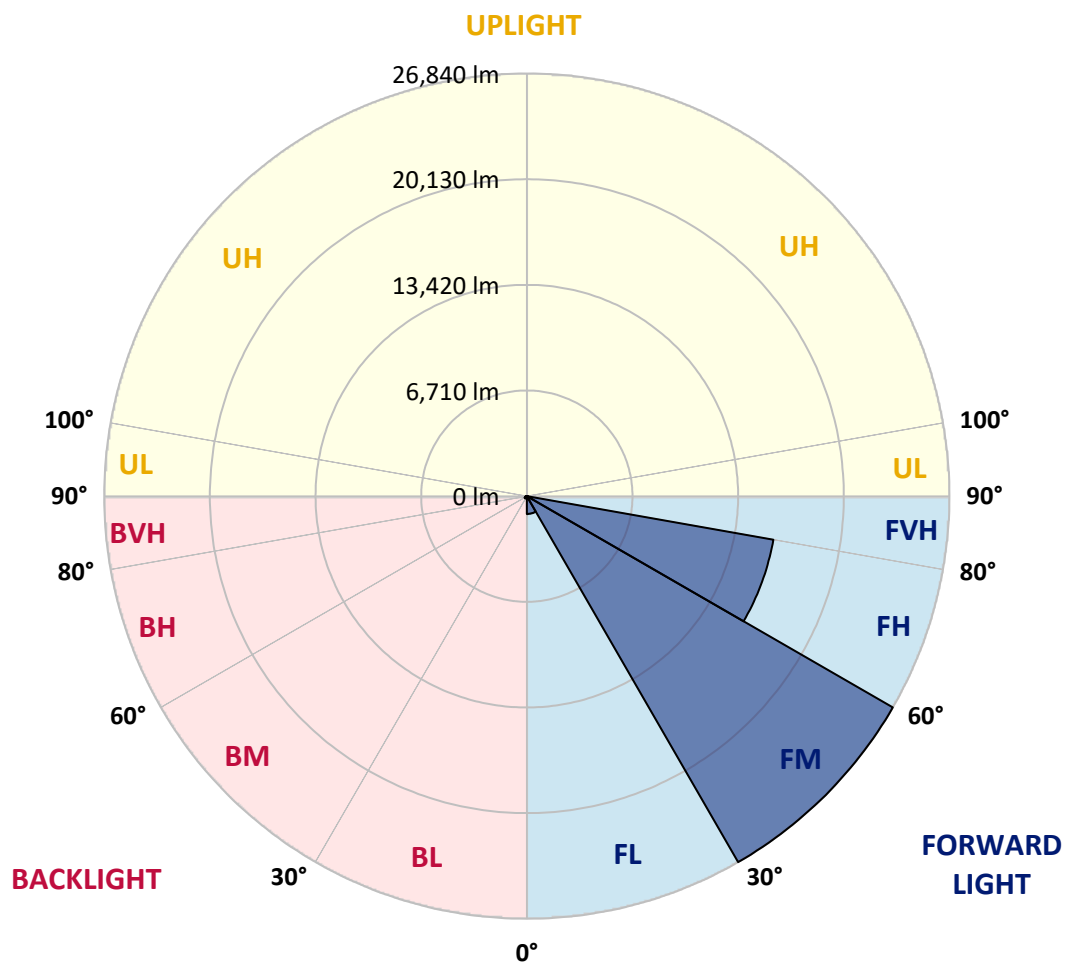
CATALOG NUMBER: GALN-SA9C-735-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1133.2	2.6			
FM	(30°-60°)	26840.3	60.6			
FH	(60°-80°)	15900.5	35.9			G5
FVH	(80°-90°)	79.7	0.2			G1/100
BL	(0°-30°)	29.6	0.1	B0/110		
BM	(30°-60°)	165.4	0.4	B0/220		
BH	(60°-80°)	103.2	0.2	B0/110		G0/110
BVH	(80°-90°)	4.1	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-G5

Type III Short



REPORT NUMBER: P1049639

CATALOG NUMBER: GALN-SA9C-735-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9
2.5°	250.7	250.7	240.7	227.3	214.0	200.6	197.2	190.6	187.2	183.9
5°	260.8	260.8	257.4	247.4	234.0	224.0	224.0	214.0	207.3	200.6
7.5°	267.5	270.8	277.5	274.1	267.5	257.4	257.4	250.7	240.7	224.0
10°	277.5	287.5	300.9	307.6	310.9	310.9	307.6	304.2	287.5	264.1
12.5°	287.5	307.6	341.0	374.4	394.5	421.2	417.9	411.2	367.7	317.6
15°	307.6	337.7	407.9	504.8	655.3	748.9	785.6	752.2	608.5	427.9
17.5°	331.0	381.1	591.7	1056.4	1731.8	2052.7	2246.6	2089.5	1384.1	812.4
20°	354.4	464.7	1099.9	2738.0	4493.2	5543.0	5833.8	5379.1	3453.5	1547.9
22.5°	394.5	651.9	2229.9	5660.0	9681.8	11256.4	11554.0	10099.7	6522.5	3055.6
25°	478.1	946.1	3844.6	9223.8	14449.1	17107.0	16983.3	15077.7	10581.1	4881.0
27.5°	598.4	1377.4	5813.8	13105.2	19015.9	21359.5	21640.3	19283.4	14104.8	7177.8
30°	772.3	1908.9	7926.6	16214.3	22676.7	25210.8	25257.6	22820.4	17257.4	9193.7
32.5°	939.4	2410.4	9775.4	19219.8	26283.9	29062.1	29269.4	26270.6	19611.0	11293.2
35°	1066.5	2738.0	11647.6	21860.9	29921.3	33749.2	33735.8	30175.4	22399.2	13168.7
37.5°	1076.5	3065.7	13342.6	24562.2	34528.2	38814.1	39238.7	35313.8	25769.1	15488.9
40°	1053.1	3433.4	15488.9	28774.6	42829.2	49405.2	49779.7	44831.8	32529.0	19460.5
42.5°	1079.8	4072.0	18972.4	36554.1	56613.1	66057.5	66779.6	61577.7	44955.5	27564.4
45°	1220.3	5272.2	26270.6	49569.1	76260.8	87774.7	87534.0	80042.0	59414.7	39900.6
47.5°	1685.0	8210.8	37089.0	62236.3	88817.8	99071.2	99278.5	90121.6	67852.8	49385.2
50°	2590.9	12563.6	46179.1	68932.6	94217.0	104503.9	104310.0	93728.9	71058.9	54055.6
52.5°	3369.9	15712.9	50739.2	71282.9	94909.0	107188.4	107175.1	94678.3	71557.0	54456.8
55°	3563.8	15950.2	50775.9	71409.9	96460.2	110702.1	111143.4	97015.2	72202.3	52704.9
57.5°	3486.9	14121.5	48656.4	72145.4	99221.7	113420.1	113443.5	99278.5	73840.4	51631.8
58°	3420.1	13834.0	48228.4	72563.3	99696.4	113533.8	113476.9	99382.2	75174.3	51591.7
60°	3045.6	12012.0	46560.2	73629.8	98991.0	111200.2	110668.7	97118.8	74977.1	51180.5
62.5°	2393.7	9370.9	44918.7	72396.2	91428.8	99903.7	100124.3	85982.8	68350.9	48783.4
65°	1905.6	6983.9	41495.3	63503.3	75288.0	82041.2	82863.6	69918.9	57051.0	41308.1
67.5°	1517.8	5048.2	34809.0	50558.6	59575.1	68471.3	69069.7	58702.6	44199.9	31649.7
70°	1233.6	3413.4	24027.3	36975.4	49137.8	59140.5	59177.3	48766.7	32990.3	20737.6
72.5°	1093.2	2363.6	13947.7	26965.9	39843.8	48191.7	47218.8	39573.0	25354.5	12282.8
75°	946.1	1567.9	6840.1	16485.1	24157.7	24321.5	24692.6	18357.3	12673.9	5840.5
77.5°	779.0	1113.3	2694.6	4503.2	7244.6	9273.9	9618.3	7288.1	4215.7	1437.6
80°	534.9	528.2	725.5	1380.7	2072.8	2597.6	2423.8	1875.5	1103.2	551.6
82.5°	230.7	250.7	327.6	394.5	320.9	310.9	297.5	190.6	147.1	113.7
85°	73.5	66.9	70.2	70.2	56.8	43.5	43.5	20.1	0.0	0.0
87.5°	36.8	30.1	30.1	26.7	16.7	6.7	3.3	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



REPORT NUMBER: P1049639

CATALOG NUMBER: GALN-SA9C-735-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
193.9	0°	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9
180.5	2.5°	177.2	177.2	170.5	163.8	160.5	153.8	150.4	147.1	143.8	140.4
193.9	5°	187.2	183.9	173.8	163.8	153.8	143.8	137.1	130.4	123.7	120.4
214.0	7.5°	203.9	197.2	177.2	160.5	147.1	133.7	127.0	117.0	110.3	100.3
237.4	10°	224.0	210.6	183.9	163.8	143.8	127.0	117.0	107.0	97.0	83.6
270.8	12.5°	250.7	227.3	193.9	160.5	137.1	117.0	107.0	93.6	83.6	73.5
314.3	15°	274.1	244.1	197.2	160.5	130.4	107.0	93.6	80.2	70.2	56.8
394.5	17.5°	307.6	257.4	193.9	150.4	120.4	93.6	80.2	70.2	53.5	33.4
585.1	20°	364.4	267.5	187.2	140.4	103.6	76.9	60.2	46.8	23.4	6.7
879.3	22.5°	454.7	294.2	180.5	127.0	90.3	60.2	40.1	16.7	0.0	0.0
1337.3	25°	628.5	341.0	180.5	120.4	80.2	43.5	13.4	0.0	0.0	0.0
1898.9	27.5°	835.8	404.5	180.5	103.6	63.5	23.4	0.0	0.0	0.0	0.0
2587.6	30°	1046.4	474.7	180.5	90.3	50.1	3.3	0.0	0.0	0.0	0.0
3186.0	32.5°	1247.0	534.9	183.9	76.9	33.4	0.0	0.0	0.0	0.0	0.0
4015.1	35°	1450.9	544.9	180.5	66.9	20.1	0.0	0.0	0.0	0.0	0.0
5031.5	37.5°	1711.7	524.9	170.5	60.2	10.0	0.0	0.0	0.0	0.0	0.0
6619.5	40°	2106.2	534.9	160.5	56.8	3.3	0.0	0.0	0.0	0.0	0.0
9451.1	42.5°	2835.0	578.4	147.1	56.8	0.0	0.0	0.0	0.0	0.0	0.0
15054.3	45°	4901.1	775.6	133.7	60.2	0.0	0.0	0.0	0.0	0.0	0.0
22599.8	47.5°	8107.2	1394.1	130.4	60.2	0.0	0.0	0.0	0.0	0.0	0.0
27223.4	50°	10347.1	1755.2	137.1	63.5	0.0	0.0	0.0	0.0	0.0	0.0
27801.7	52.5°	10330.4	1955.7	143.8	66.9	13.4	0.0	0.0	0.0	0.0	0.0
25625.3	55°	9183.7	1992.5	153.8	73.5	43.5	0.0	0.0	0.0	0.0	0.0
22021.4	57.5°	7675.9	1818.7	177.2	90.3	80.2	0.0	0.0	0.0	0.0	0.0
21456.4	58°	7408.4	1738.4	183.9	93.6	86.9	0.0	0.0	0.0	0.0	0.0
18611.4	60°	6071.2	1417.5	234.0	117.0	117.0	0.0	0.0	0.0	0.0	0.0
15258.2	62.5°	4192.3	1237.0	267.5	150.4	120.4	0.0	0.0	0.0	0.0	0.0
11249.7	65°	2965.4	1116.6	290.9	160.5	97.0	0.0	0.0	0.0	0.0	0.0
7993.5	67.5°	2216.5	1029.7	320.9	163.8	50.1	0.0	0.0	0.0	0.0	0.0
5014.7	70°	1698.3	966.2	394.5	173.8	13.4	0.0	0.0	0.0	0.0	0.0
2988.8	72.5°	1384.1	892.6	478.1	180.5	0.0	0.0	0.0	0.0	0.0	0.0
1791.9	75°	1146.7	805.7	461.4	197.2	0.0	0.0	0.0	0.0	0.0	0.0
956.1	77.5°	762.2	625.2	421.2	197.2	0.0	0.0	0.0	0.0	0.0	0.0
341.0	80°	267.5	247.4	327.6	173.8	0.0	0.0	0.0	0.0	0.0	0.0
70.2	82.5°	40.1	33.4	46.8	60.2	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

REPORT NUMBER: P1049639

CATALOG NUMBER: GALN-SA9C-735-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
193.9	0°	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9
137.1	2.5°	137.1	137.1	133.7	137.1	137.1	143.8	160.5	183.9	210.6	220.6
117.0	5°	113.7	110.3	107.0	107.0	107.0	117.0	130.4	157.1	187.2	200.6
97.0	7.5°	93.6	90.3	86.9	83.6	83.6	90.3	107.0	137.1	167.2	180.5
80.2	10°	76.9	70.2	66.9	63.5	63.5	70.2	86.9	117.0	150.4	163.8
66.9	12.5°	63.5	53.5	46.8	43.5	40.1	50.1	66.9	93.6	130.4	147.1
50.1	15°	43.5	33.4	23.4	20.1	16.7	26.7	43.5	73.5	110.3	130.4
26.7	17.5°	23.4	10.0	3.3	0.0	0.0	6.7	20.1	53.5	90.3	107.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.7	66.9	83.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	40.1	56.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	30.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	26.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1049639

CATALOG NUMBER: GALN-SA9C-735-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
193.9	0°	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9	193.9
230.7	2.5°	237.4	234.0	227.3	220.6	220.6	220.6	230.7	240.7	250.7	250.7
207.3	5°	220.6	220.6	217.3	210.6	210.6	214.0	227.3	244.1	257.4	260.8
190.6	7.5°	203.9	210.6	203.9	200.6	203.9	207.3	220.6	240.7	260.8	267.5
177.2	10°	193.9	197.2	197.2	193.9	193.9	200.6	214.0	240.7	267.5	277.5
160.5	12.5°	180.5	187.2	183.9	183.9	183.9	190.6	207.3	237.4	274.1	287.5
143.8	15°	167.2	177.2	177.2	173.8	173.8	177.2	200.6	234.0	284.2	307.6
123.7	17.5°	153.8	163.8	167.2	160.5	160.5	167.2	190.6	234.0	290.9	331.0
100.3	20°	127.0	143.8	153.8	143.8	143.8	150.4	173.8	220.6	294.2	354.4
73.5	22.5°	100.3	117.0	130.4	127.0	127.0	130.4	160.5	210.6	297.5	394.5
43.5	25°	73.5	90.3	100.3	107.0	107.0	117.0	147.1	203.9	310.9	478.1
20.1	27.5°	43.5	63.5	76.9	83.6	86.9	100.3	137.1	197.2	334.3	598.4
0.0	30°	20.1	36.8	53.5	66.9	66.9	90.3	127.0	190.6	364.4	772.3
0.0	32.5°	0.0	16.7	26.7	46.8	50.1	73.5	117.0	183.9	407.9	939.4
0.0	35°	0.0	0.0	13.4	36.8	36.8	60.2	107.0	177.2	474.7	1066.5
0.0	37.5°	0.0	0.0	0.0	26.7	30.1	53.5	103.6	173.8	488.1	1076.5
0.0	40°	0.0	0.0	0.0	20.1	23.4	50.1	103.6	177.2	441.3	1053.1
0.0	42.5°	0.0	0.0	0.0	13.4	16.7	50.1	103.6	183.9	397.8	1079.8
0.0	45°	0.0	0.0	0.0	10.0	13.4	53.5	100.3	180.5	374.4	1220.3
0.0	47.5°	0.0	0.0	0.0	13.4	20.1	53.5	97.0	177.2	377.8	1685.0
0.0	50°	0.0	0.0	0.0	16.7	23.4	53.5	100.3	170.5	414.6	2590.9
0.0	52.5°	0.0	0.0	0.0	13.4	20.1	60.2	110.3	167.2	451.3	3369.9
0.0	55°	0.0	0.0	0.0	3.3	10.0	76.9	120.4	167.2	508.2	3563.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	86.9	137.1	177.2	601.8	3486.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	86.9	140.4	177.2	608.5	3420.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	86.9	153.8	197.2	655.3	3045.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	73.5	183.9	247.4	682.0	2393.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	60.2	217.3	270.8	702.1	1905.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	56.8	224.0	274.1	712.1	1517.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	60.2	220.6	294.2	745.5	1233.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	66.9	200.6	324.3	745.5	1093.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	70.2	187.2	364.4	678.7	946.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	66.9	183.9	424.6	605.1	779.0
0.0	80°	6.7	10.0	10.0	6.7	6.7	56.8	180.5	431.3	514.8	534.9
3.3	82.5°	20.1	26.7	23.4	16.7	16.7	50.1	160.5	361.1	267.5	230.7
20.1	85°	36.8	43.5	43.5	36.8	36.8	46.8	100.3	130.4	90.3	73.5
36.8	87.5°	50.1	56.8	56.8	50.1	50.1	46.8	43.5	40.1	36.8	36.8
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: SP1-2407-184-5

Test Date: 10/10/2024

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

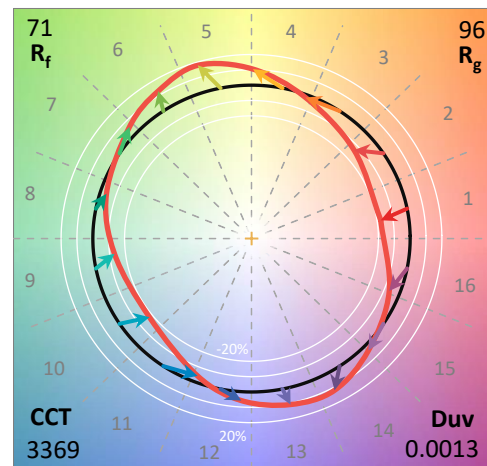
Data in this report applies to families of products including GSS-SB1A-735-U-5WQ

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	CRI (Ra):	70.1		
CIE u':	0.2386	R1:	66.6	R9:	-40.2
CIE v':	0.5156	R2:	77.6	R10:	49.1
Duv:	0.0013	R3:	88.5	R11:	66.3
CIE x:	0.4143	R4:	69.5	R12:	45.7
CIE y:	0.3980	R5:	66.4	R13:	68.0
CIE z:	0.1877	R6:	69.6	R14:	93.4
Peak Wavelength (nm):	590	R7:	77.5	R15:	57.6
Dominant Wavelength (nm):	580	R8:	44.9		
Purity:	43.80166				
Rf:	71.4				
Rg:	96				



Test Conditions

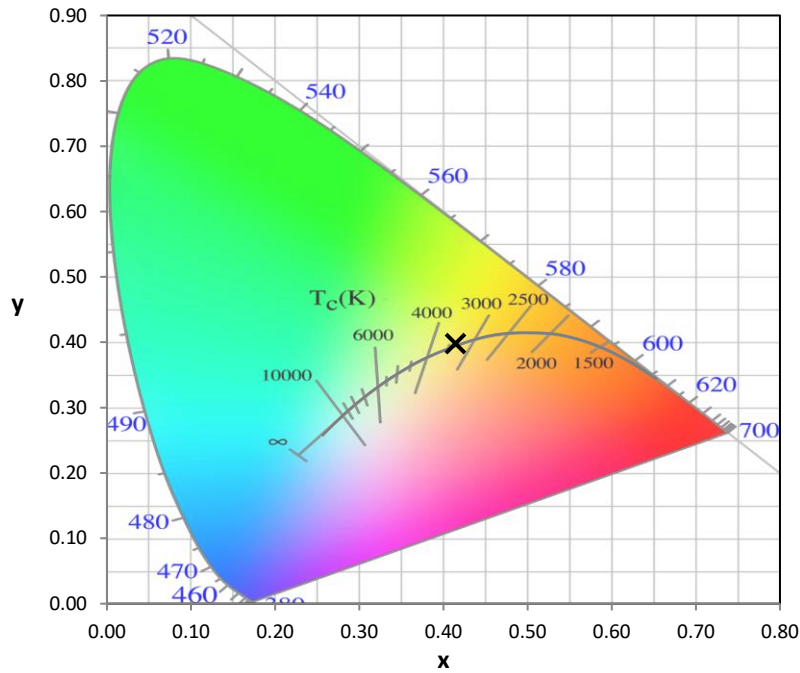
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-5

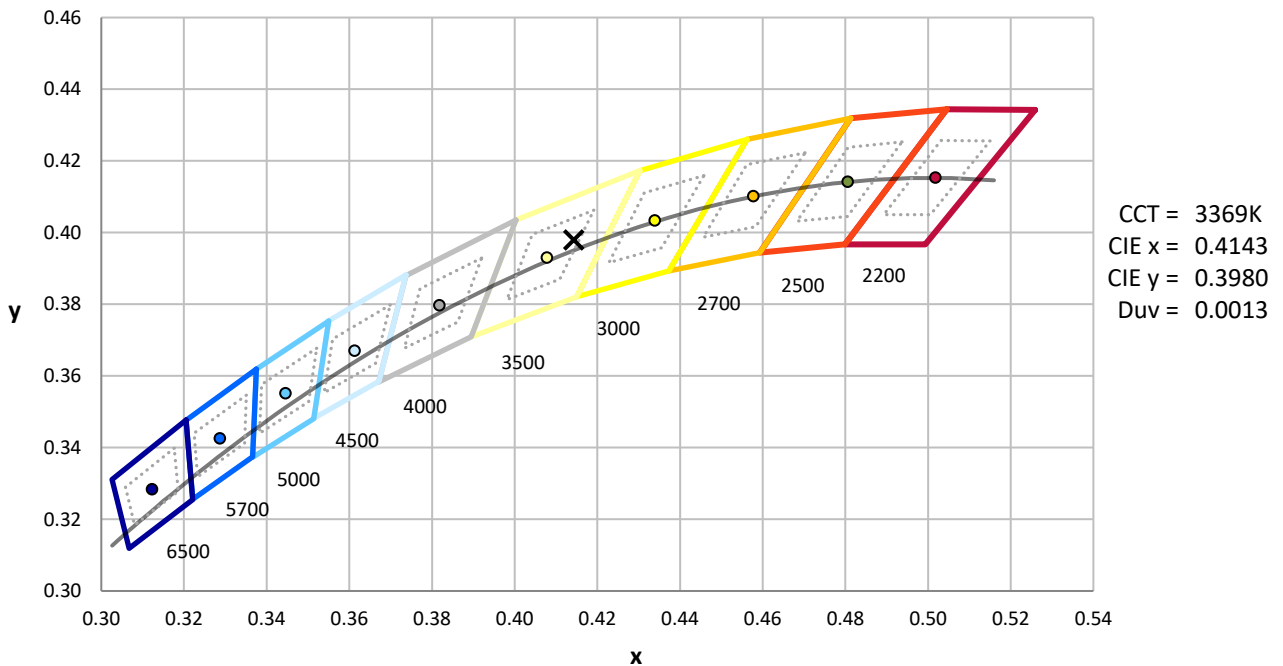
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



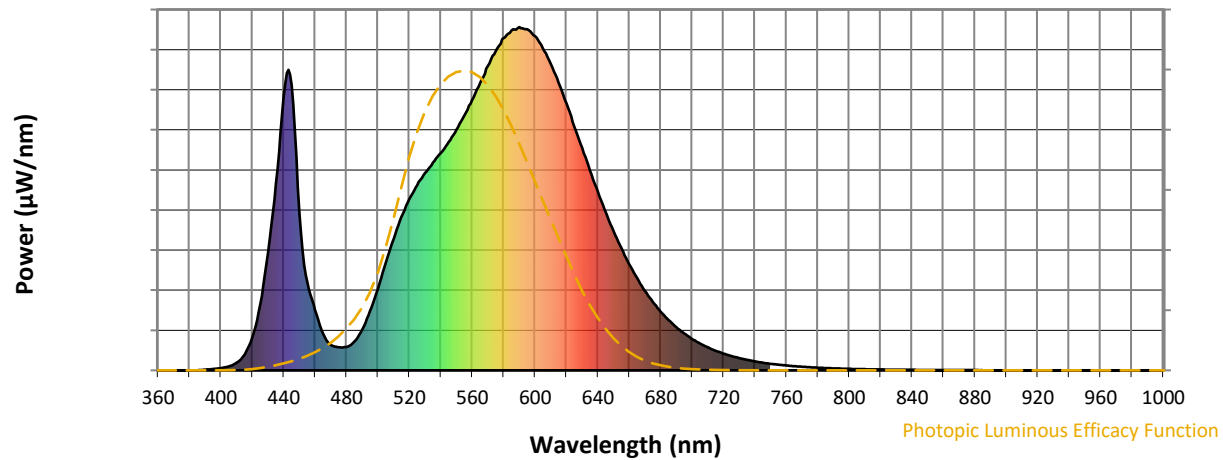
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-5

Photopic Flux vs. Wavelength

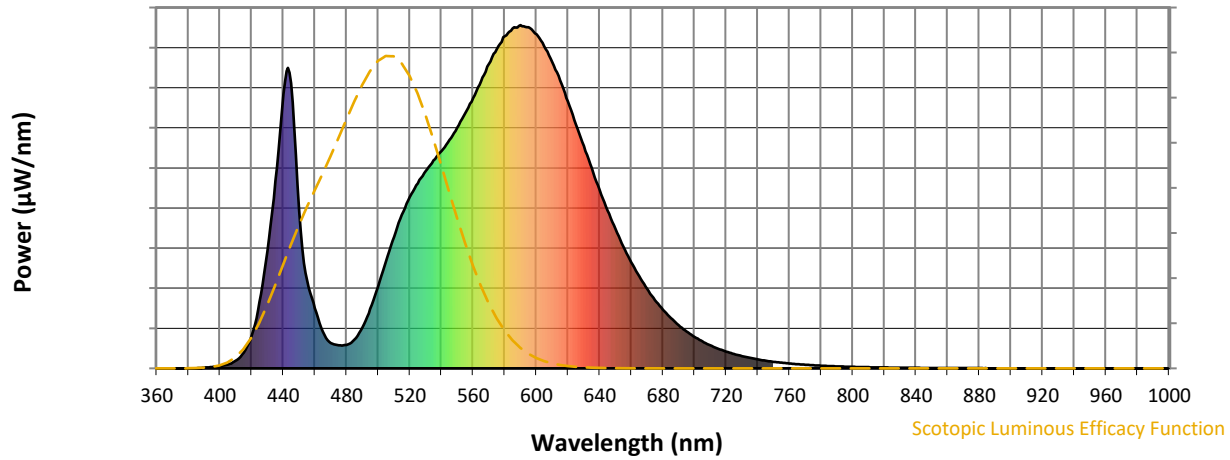


Photopic Lumens: NR

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

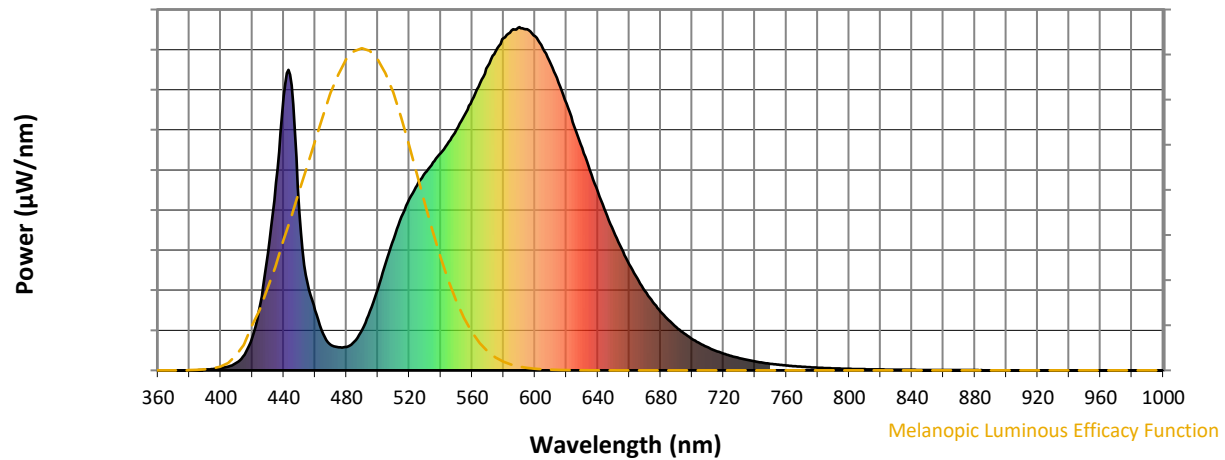
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.29

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.36

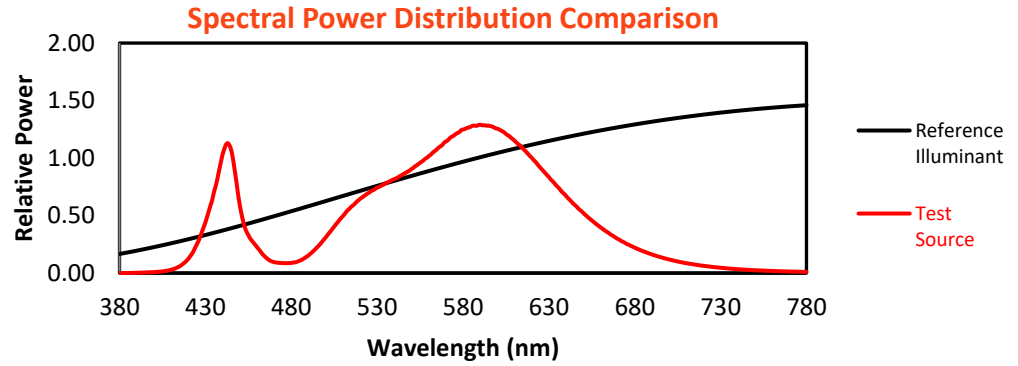
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	119	NR	620	778	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

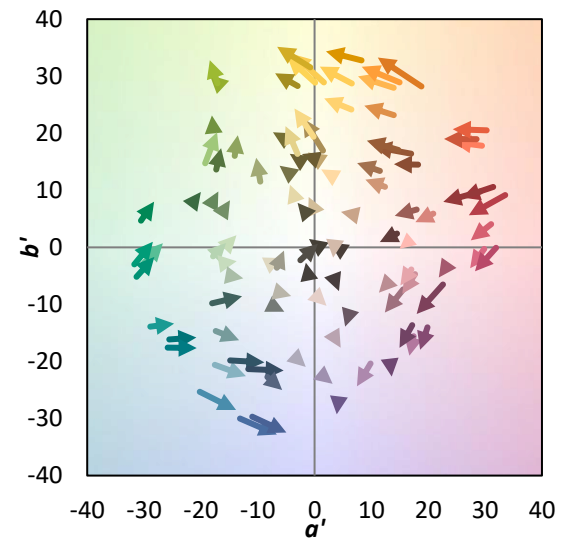
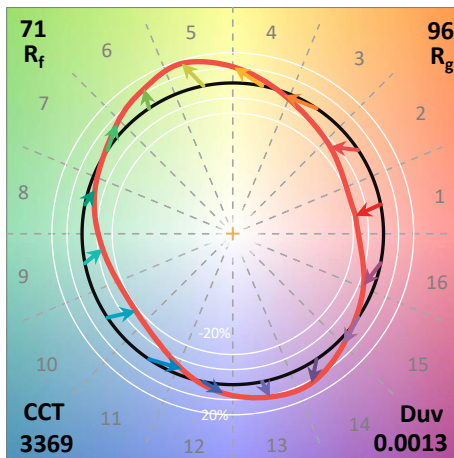
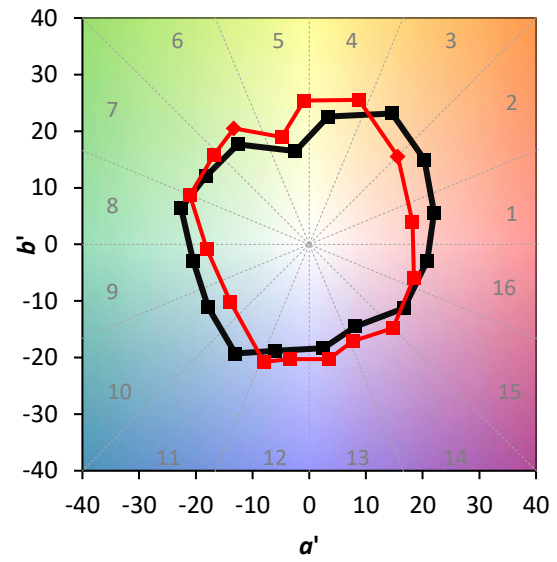
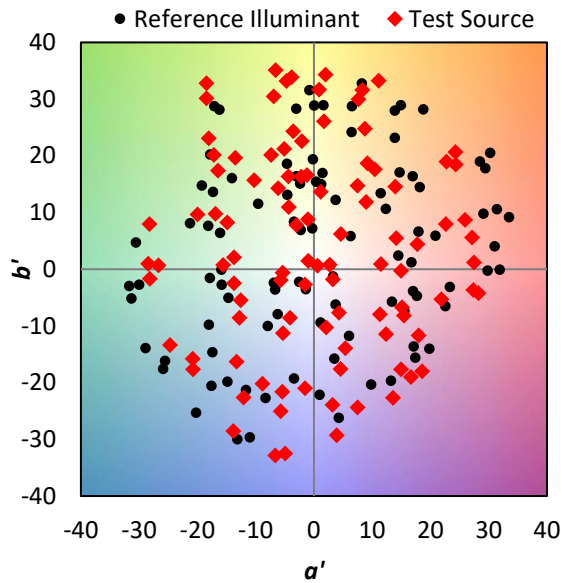
TM-30-18

Summary

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

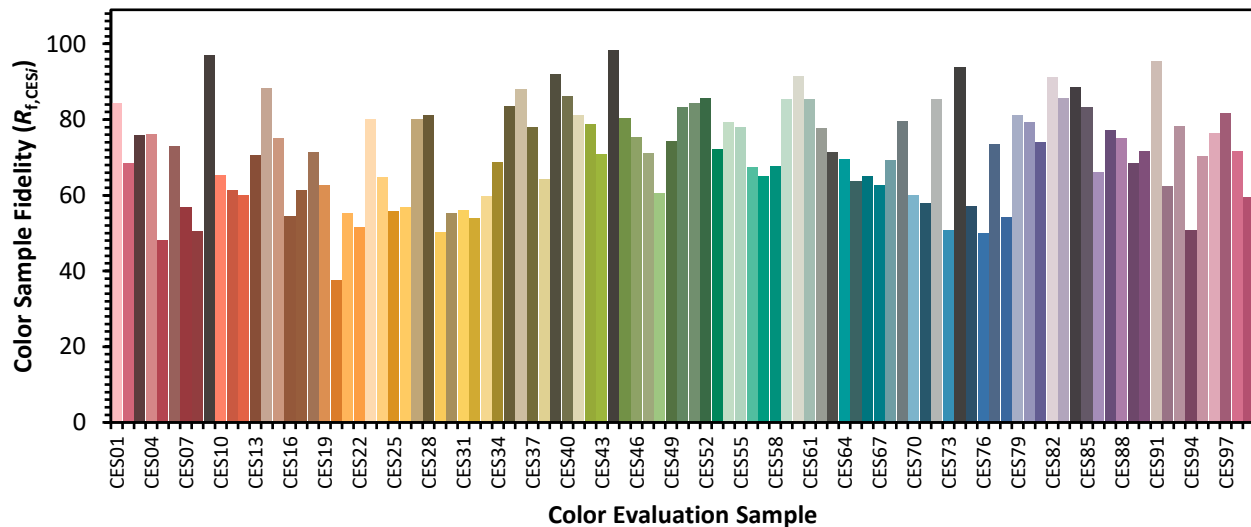


Color Vector Graphics

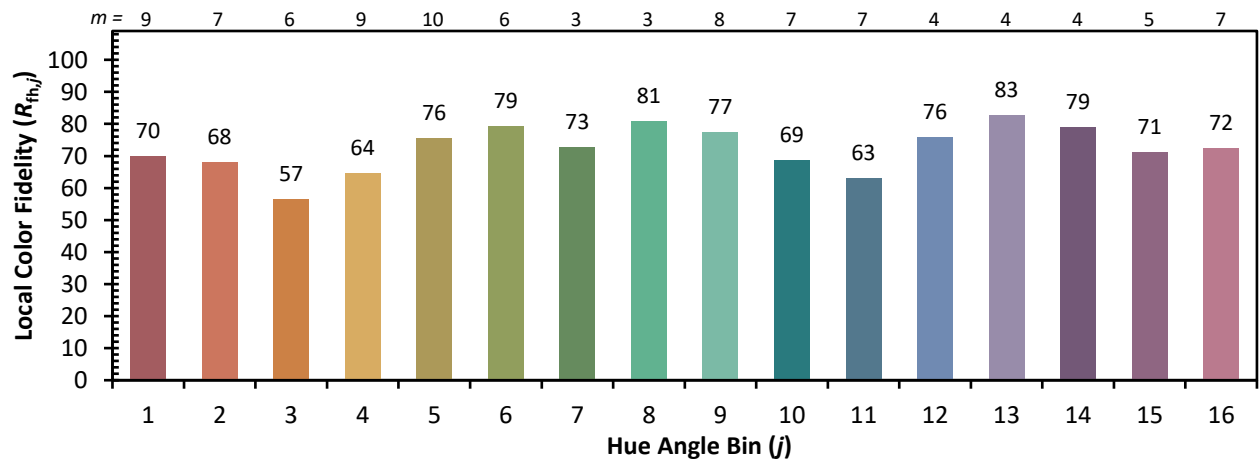
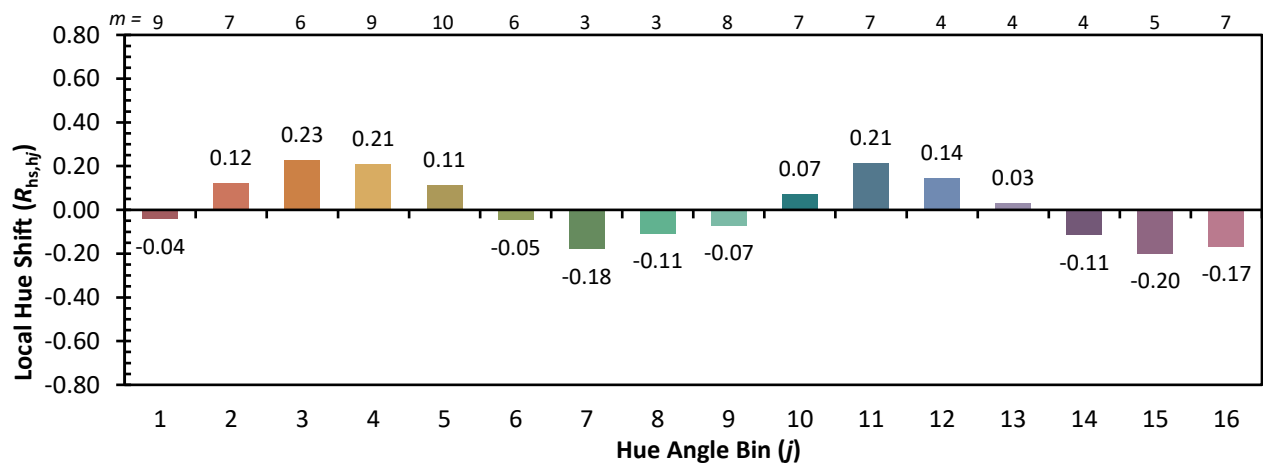
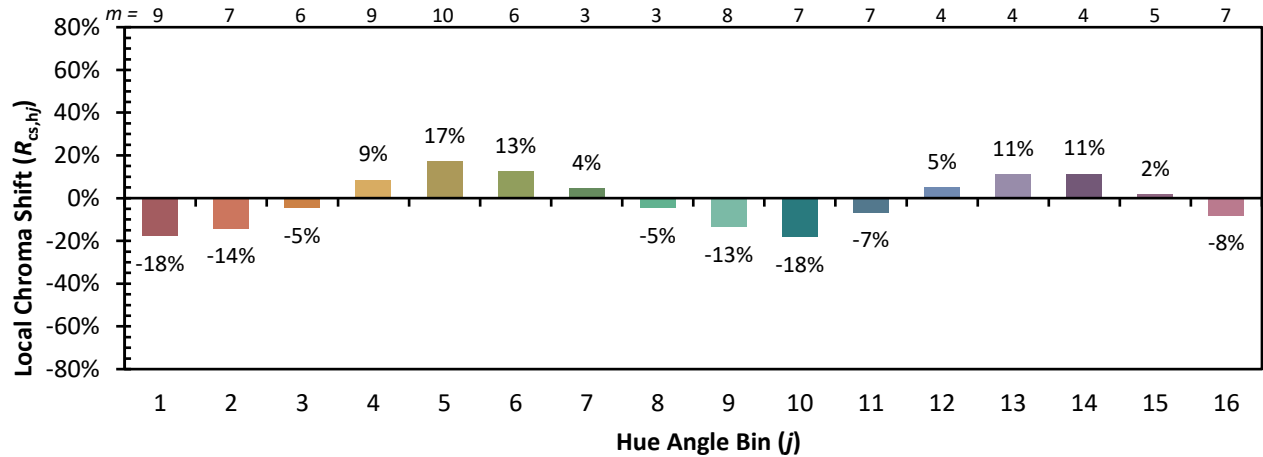


Individual Sample Fidelity Index ($R_{f,i}$)

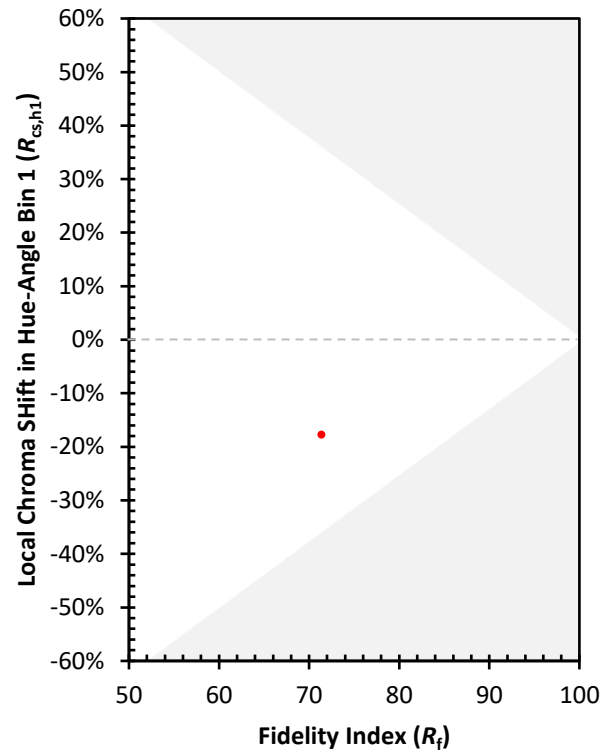
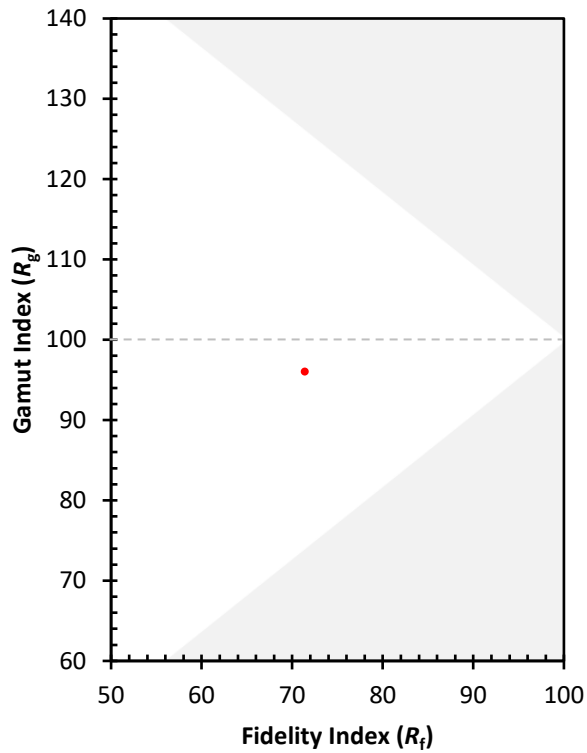
CES01 = 86	CES26 = 57	CES51 = 84	CES76 = 50
CES02 = 62	CES27 = 80	CES52 = 86	CES77 = 74
CES03 = 31	CES28 = 81	CES53 = 72	CES78 = 54
CES04 = 70	CES29 = 50	CES54 = 79	CES79 = 81
CES05 = 48	CES30 = 55	CES55 = 78	CES80 = 79
CES06 = 51	CES31 = 56	CES56 = 67	CES81 = 74
CES07 = 40	CES32 = 54	CES57 = 65	CES82 = 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)