

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: P1049866

Luminaire Tested: **GALN-SA3B-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049866
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11686.6 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

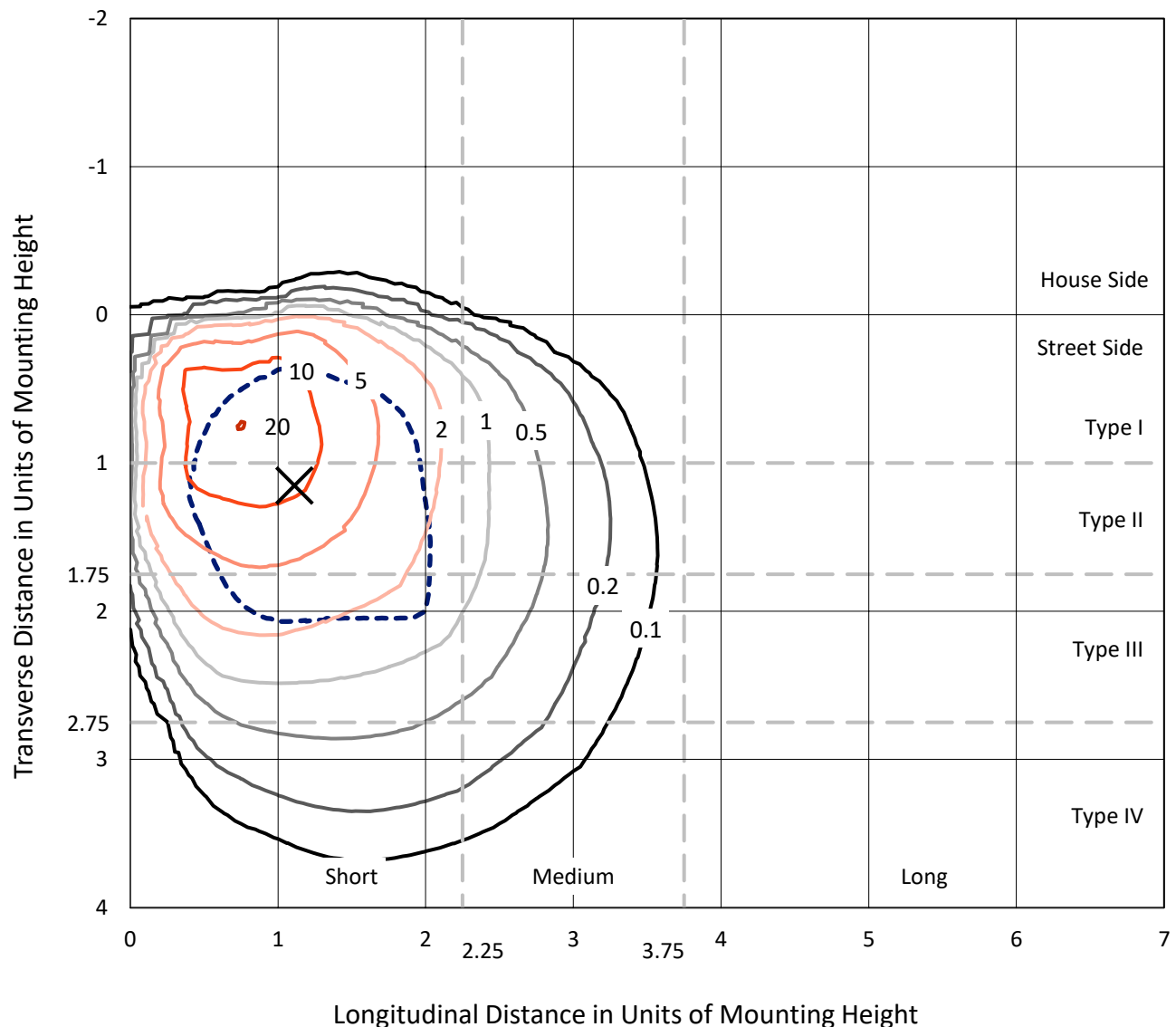
Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1049866

CATALOG NUMBER: GALN-SA3B-850-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

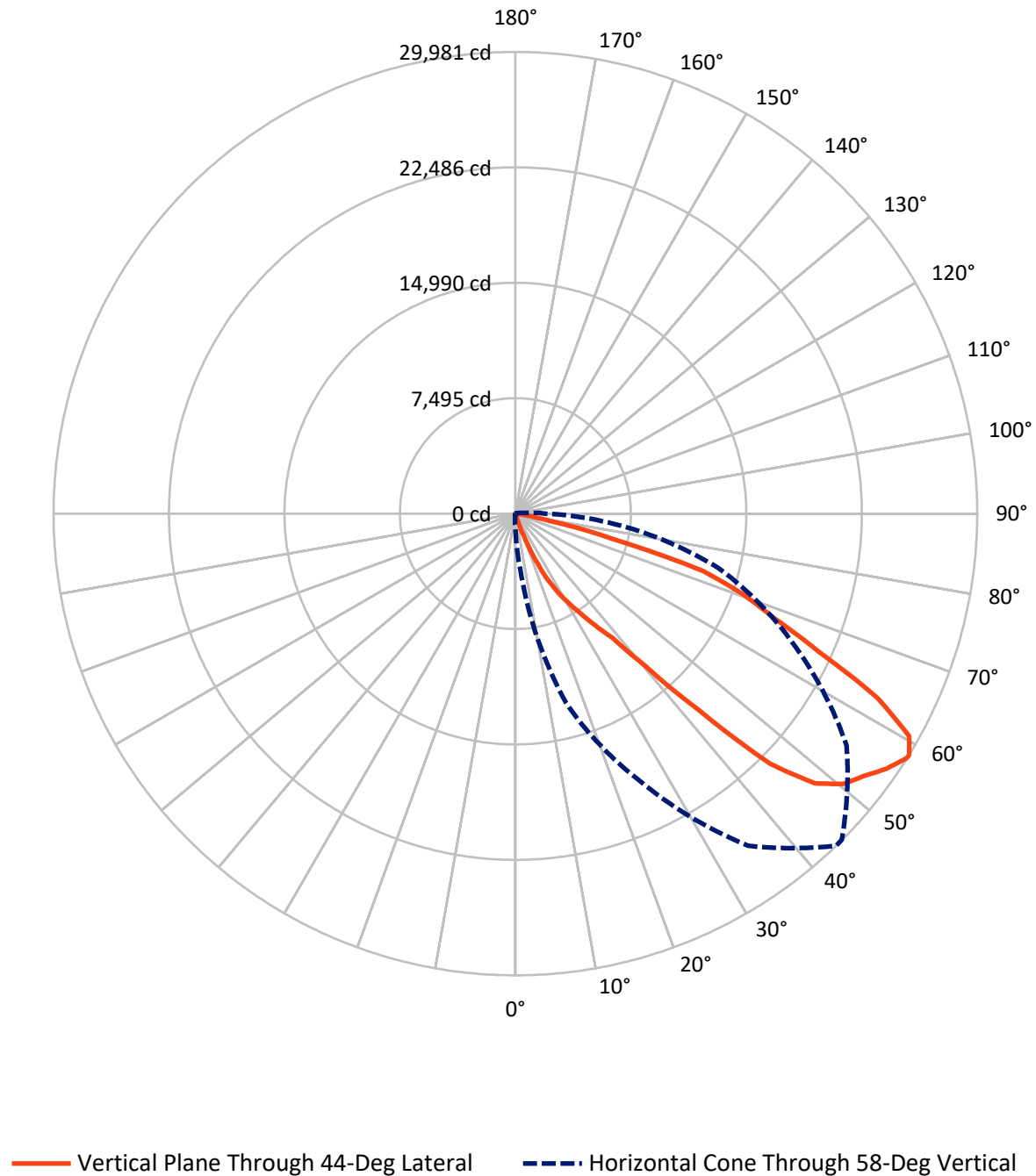
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1049866
CATALOG NUMBER: GALN-SA3B-850-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1049866

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	79.8	0.0	79.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11606.8	0.0	11606.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	11686.6	0.0	11686.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.0
10°-20°	25.6	0.2
20°-30°	276.9	2.4
30°-40°	818.8	7.0
40°-50°	2440.3	20.9
50°-60°	3872.2	33.1
60°-70°	3229.9	27.6
70°-80°	996.2	8.5
80°-90°	22.1	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°	11686.6	100.0
0°-180°	11686.6	100.0



REPORT NUMBER: P1049866

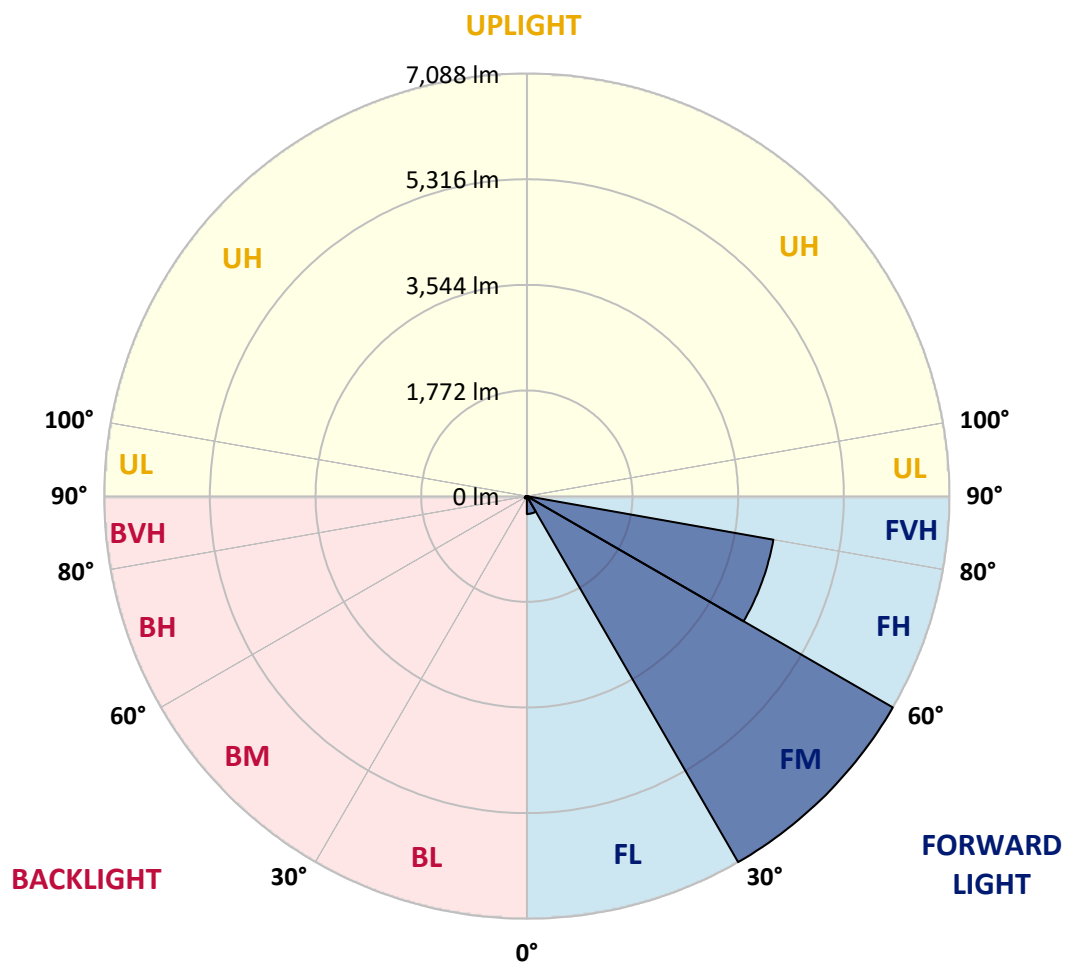
CATALOG NUMBER: GALN-SA3B-850-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.2	2.6			
FM	(30°-60°)	7087.7	60.6			
FH	(60°-80°)	4198.8	35.9			G2/5000
FVH	(80°-90°)	21.1	0.2			G1/100
BL	(0°-30°)	7.8	0.1	B0/110		
BM	(30°-60°)	43.7	0.4	B0/220		
BH	(60°-80°)	27.2	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G2

Type III Short





REPORT NUMBER: P1049866

CATALOG NUMBER: GALN-SA3B-850-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
2.5°	66.2	66.2	63.6	60.0	56.5	53.0	52.1	50.3	49.4	48.6
5°	68.9	68.9	68.0	65.3	61.8	59.1	59.1	56.5	54.7	53.0
7.5°	70.6	71.5	73.3	72.4	70.6	68.0	68.0	66.2	63.6	59.1
10°	73.3	75.9	79.5	81.2	82.1	82.1	81.2	80.3	75.9	69.7
12.5°	75.9	81.2	90.0	98.9	104.2	111.2	110.4	108.6	97.1	83.9
15°	81.2	89.2	107.7	133.3	173.0	197.8	207.5	198.6	160.7	113.0
17.5°	87.4	100.6	156.3	279.0	457.3	542.1	593.3	551.8	365.5	214.5
20°	93.6	122.7	290.4	723.0	1186.5	1463.7	1540.5	1420.5	912.0	408.7
22.5°	104.2	172.2	588.8	1494.6	2556.7	2972.5	3051.0	2667.0	1722.4	806.9
25°	126.2	249.8	1015.2	2435.7	3815.6	4517.4	4484.7	3981.5	2794.1	1288.9
27.5°	158.0	363.7	1535.2	3460.7	5021.5	5640.4	5714.5	5092.1	3724.6	1895.4
30°	203.9	504.1	2093.2	4281.7	5988.2	6657.4	6669.7	6026.2	4557.1	2427.8
32.5°	248.1	636.5	2581.4	5075.4	6940.8	7674.4	7729.1	6937.2	5178.6	2982.2
35°	281.6	723.0	3075.8	5772.8	7901.3	8912.1	8908.6	7968.4	5914.9	3477.4
37.5°	284.3	809.5	3523.3	6486.1	9117.8	10249.6	10361.7	9325.3	6804.8	4090.1
40°	278.1	906.7	4090.1	7598.5	11309.9	13046.4	13145.2	11838.7	8589.9	5138.9
42.5°	285.2	1075.3	5010.0	9652.8	14949.7	17443.7	17634.4	16260.7	11871.3	7278.9
45°	322.2	1392.2	6937.2	13089.6	20138.1	23178.5	23115.0	21136.6	15689.5	10536.5
47.5°	444.9	2168.2	9794.0	16434.6	23454.0	26161.6	26216.3	23798.3	17917.8	13041.1
50°	684.2	3317.7	12194.4	18202.9	24879.7	27596.2	27545.0	24750.8	18764.4	14274.4
52.5°	889.9	4149.3	13398.6	18823.6	25062.5	28305.1	28301.6	25001.6	18896.0	14380.3
55°	941.1	4212.0	13408.3	18857.1	25472.1	29232.9	29349.5	25618.7	19066.3	13917.7
57.5°	920.8	3729.0	12848.6	19051.3	26201.3	29950.7	29956.9	26216.3	19498.9	13634.3
58°	903.1	3653.1	12735.6	19161.7	26326.7	29980.7	29965.7	26243.7	19851.2	13623.7
60°	804.3	3172.0	12295.1	19443.3	26140.4	29364.5	29224.1	25646.0	19799.1	13515.1
62.5°	632.1	2474.6	11861.6	19117.5	24143.5	26381.4	26439.7	22705.3	18049.3	12882.2
65°	503.2	1844.2	10957.6	16769.2	19881.2	21664.5	21881.7	18463.4	15065.4	10908.2
67.5°	400.8	1333.1	9192.0	13350.9	15731.9	18081.1	18239.1	15501.5	11671.8	8357.7
70°	325.8	901.4	6344.9	9764.0	12975.7	15617.1	15626.9	12877.7	8711.7	5476.2
72.5°	288.7	624.2	3683.1	7120.9	10521.5	12725.9	12469.0	10450.0	6695.3	3243.5
75°	249.8	414.0	1806.3	4353.2	6379.3	6422.5	6520.5	4847.6	3346.8	1542.3
77.5°	205.7	294.0	711.6	1189.2	1913.1	2449.0	2539.9	1924.6	1113.2	379.6
80°	141.3	139.5	191.6	364.6	547.4	686.0	640.0	495.3	291.3	145.7
82.5°	60.9	66.2	86.5	104.2	84.8	82.1	78.6	50.3	38.8	30.0
85°	19.4	17.7	18.5	18.5	15.0	11.5	11.5	5.3	0.0	0.0
87.5°	9.7	7.9	7.9	7.1	4.4	1.8	0.9	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: P1049866

CATALOG NUMBER: GALN-SA3B-850-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
51.2	0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
47.7	2.5°	46.8	46.8	45.0	43.3	42.4	40.6	39.7	38.8	38.0	37.1
51.2	5°	49.4	48.6	45.9	43.3	40.6	38.0	36.2	34.4	32.7	31.8
56.5	7.5°	53.9	52.1	46.8	42.4	38.8	35.3	33.5	30.9	29.1	26.5
62.7	10°	59.1	55.6	48.6	43.3	38.0	33.5	30.9	28.3	25.6	22.1
71.5	12.5°	66.2	60.0	51.2	42.4	36.2	30.9	28.3	24.7	22.1	19.4
83.0	15°	72.4	64.4	52.1	42.4	34.4	28.3	24.7	21.2	18.5	15.0
104.2	17.5°	81.2	68.0	51.2	39.7	31.8	24.7	21.2	18.5	14.1	8.8
154.5	20°	96.2	70.6	49.4	37.1	27.4	20.3	15.9	12.4	6.2	1.8
232.2	22.5°	120.1	77.7	47.7	33.5	23.8	15.9	10.6	4.4	0.0	0.0
353.1	25°	166.0	90.0	47.7	31.8	21.2	11.5	3.5	0.0	0.0	0.0
501.4	27.5°	220.7	106.8	47.7	27.4	16.8	6.2	0.0	0.0	0.0	0.0
683.3	30°	276.3	125.4	47.7	23.8	13.2	0.9	0.0	0.0	0.0	0.0
841.3	32.5°	329.3	141.3	48.6	20.3	8.8	0.0	0.0	0.0	0.0	0.0
1060.3	35°	383.1	143.9	47.7	17.7	5.3	0.0	0.0	0.0	0.0	0.0
1328.6	37.5°	452.0	138.6	45.0	15.9	2.6	0.0	0.0	0.0	0.0	0.0
1748.0	40°	556.2	141.3	42.4	15.0	0.9	0.0	0.0	0.0	0.0	0.0
2495.7	42.5°	748.6	152.7	38.8	15.0	0.0	0.0	0.0	0.0	0.0	0.0
3975.4	45°	1294.2	204.8	35.3	15.9	0.0	0.0	0.0	0.0	0.0	0.0
5967.9	47.5°	2140.8	368.1	34.4	15.9	0.0	0.0	0.0	0.0	0.0	0.0
7188.8	50°	2732.3	463.5	36.2	16.8	0.0	0.0	0.0	0.0	0.0	0.0
7341.6	52.5°	2727.9	516.5	38.0	17.7	3.5	0.0	0.0	0.0	0.0	0.0
6766.8	55°	2425.1	526.2	40.6	19.4	11.5	0.0	0.0	0.0	0.0	0.0
5815.2	57.5°	2027.0	480.3	46.8	23.8	21.2	0.0	0.0	0.0	0.0	0.0
5666.0	58°	1956.3	459.1	48.6	24.7	23.0	0.0	0.0	0.0	0.0	0.0
4914.7	60°	1603.2	374.3	61.8	30.9	30.9	0.0	0.0	0.0	0.0	0.0
4029.2	62.5°	1107.1	326.6	70.6	39.7	31.8	0.0	0.0	0.0	0.0	0.0
2970.7	65°	783.1	294.9	76.8	42.4	25.6	0.0	0.0	0.0	0.0	0.0
2110.8	67.5°	585.3	271.9	84.8	43.3	13.2	0.0	0.0	0.0	0.0	0.0
1324.2	70°	448.5	255.1	104.2	45.9	3.5	0.0	0.0	0.0	0.0	0.0
789.2	72.5°	365.5	235.7	126.2	47.7	0.0	0.0	0.0	0.0	0.0	0.0
473.2	75°	302.8	212.8	121.8	52.1	0.0	0.0	0.0	0.0	0.0	0.0
252.5	77.5°	201.3	165.1	111.2	52.1	0.0	0.0	0.0	0.0	0.0	0.0
90.0	80°	70.6	65.3	86.5	45.9	0.0	0.0	0.0	0.0	0.0	0.0
18.5	82.5°	10.6	8.8	12.4	15.9	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: P1049866

CATALOG NUMBER: GALN-SA3B-850-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
51.2	0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
36.2	2.5°	36.2	36.2	35.3	36.2	36.2	38.0	42.4	48.6	55.6	58.3
30.9	5°	30.0	29.1	28.3	28.3	28.3	30.9	34.4	41.5	49.4	53.0
25.6	7.5°	24.7	23.8	23.0	22.1	22.1	23.8	28.3	36.2	44.1	47.7
21.2	10°	20.3	18.5	17.7	16.8	16.8	18.5	23.0	30.9	39.7	43.3
17.7	12.5°	16.8	14.1	12.4	11.5	10.6	13.2	17.7	24.7	34.4	38.8
13.2	15°	11.5	8.8	6.2	5.3	4.4	7.1	11.5	19.4	29.1	34.4
7.1	17.5°	6.2	2.6	0.9	0.0	0.0	1.8	5.3	14.1	23.8	28.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	17.7	22.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.6	15.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	7.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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	2.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.1
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: P1049866

CATALOG NUMBER: GALN-SA3B-850-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
51.2	0°	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
60.9	2.5°	62.7	61.8	60.0	58.3	58.3	58.3	60.9	63.6	66.2	66.2
54.7	5°	58.3	58.3	57.4	55.6	55.6	56.5	60.0	64.4	68.0	68.9
50.3	7.5°	53.9	55.6	53.9	53.0	53.9	54.7	58.3	63.6	68.9	70.6
46.8	10°	51.2	52.1	52.1	51.2	51.2	53.0	56.5	63.6	70.6	73.3
42.4	12.5°	47.7	49.4	48.6	48.6	48.6	50.3	54.7	62.7	72.4	75.9
38.0	15°	44.1	46.8	46.8	45.9	45.9	46.8	53.0	61.8	75.0	81.2
32.7	17.5°	40.6	43.3	44.1	42.4	42.4	44.1	50.3	61.8	76.8	87.4
26.5	20°	33.5	38.0	40.6	38.0	38.0	39.7	45.9	58.3	77.7	93.6
19.4	22.5°	26.5	30.9	34.4	33.5	33.5	34.4	42.4	55.6	78.6	104.2
11.5	25°	19.4	23.8	26.5	28.3	28.3	30.9	38.8	53.9	82.1	126.2
5.3	27.5°	11.5	16.8	20.3	22.1	23.0	26.5	36.2	52.1	88.3	158.0
0.0	30°	5.3	9.7	14.1	17.7	17.7	23.8	33.5	50.3	96.2	203.9
0.0	32.5°	0.0	4.4	7.1	12.4	13.2	19.4	30.9	48.6	107.7	248.1
0.0	35°	0.0	0.0	3.5	9.7	9.7	15.9	28.3	46.8	125.4	281.6
0.0	37.5°	0.0	0.0	0.0	7.1	7.9	14.1	27.4	45.9	128.9	284.3
0.0	40°	0.0	0.0	0.0	5.3	6.2	13.2	27.4	46.8	116.5	278.1
0.0	42.5°	0.0	0.0	0.0	3.5	4.4	13.2	27.4	48.6	105.1	285.2
0.0	45°	0.0	0.0	0.0	2.6	3.5	14.1	26.5	47.7	98.9	322.2
0.0	47.5°	0.0	0.0	0.0	3.5	5.3	14.1	25.6	46.8	99.8	444.9
0.0	50°	0.0	0.0	0.0	4.4	6.2	14.1	26.5	45.0	109.5	684.2
0.0	52.5°	0.0	0.0	0.0	3.5	5.3	15.9	29.1	44.1	119.2	889.9
0.0	55°	0.0	0.0	0.0	0.9	2.6	20.3	31.8	44.1	134.2	941.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	23.0	36.2	46.8	158.9	920.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	23.0	37.1	46.8	160.7	903.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	23.0	40.6	52.1	173.0	804.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	19.4	48.6	65.3	180.1	632.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.9	57.4	71.5	185.4	503.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	15.0	59.1	72.4	188.0	400.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.9	58.3	77.7	196.9	325.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	17.7	53.0	85.6	196.9	288.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	18.5	49.4	96.2	179.2	249.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	17.7	48.6	112.1	159.8	205.7
0.0	80°	1.8	2.6	2.6	1.8	1.8	15.0	47.7	113.9	136.0	141.3
0.9	82.5°	5.3	7.1	6.2	4.4	4.4	13.2	42.4	95.3	70.6	60.9
5.3	85°	9.7	11.5	11.5	9.7	9.7	12.4	26.5	34.4	23.8	19.4
9.7	87.5°	13.2	15.0	15.0	13.2	13.2	12.4	11.5	10.6	9.7	9.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

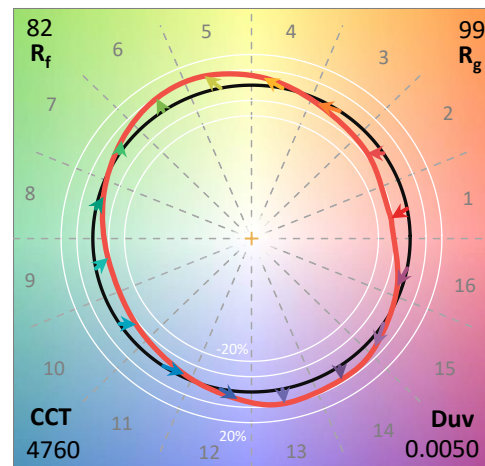
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

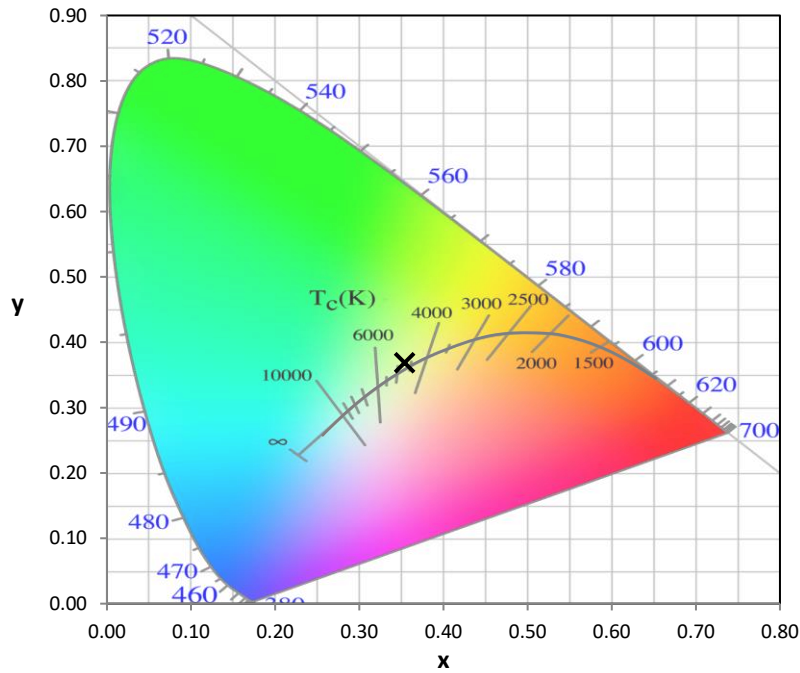
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

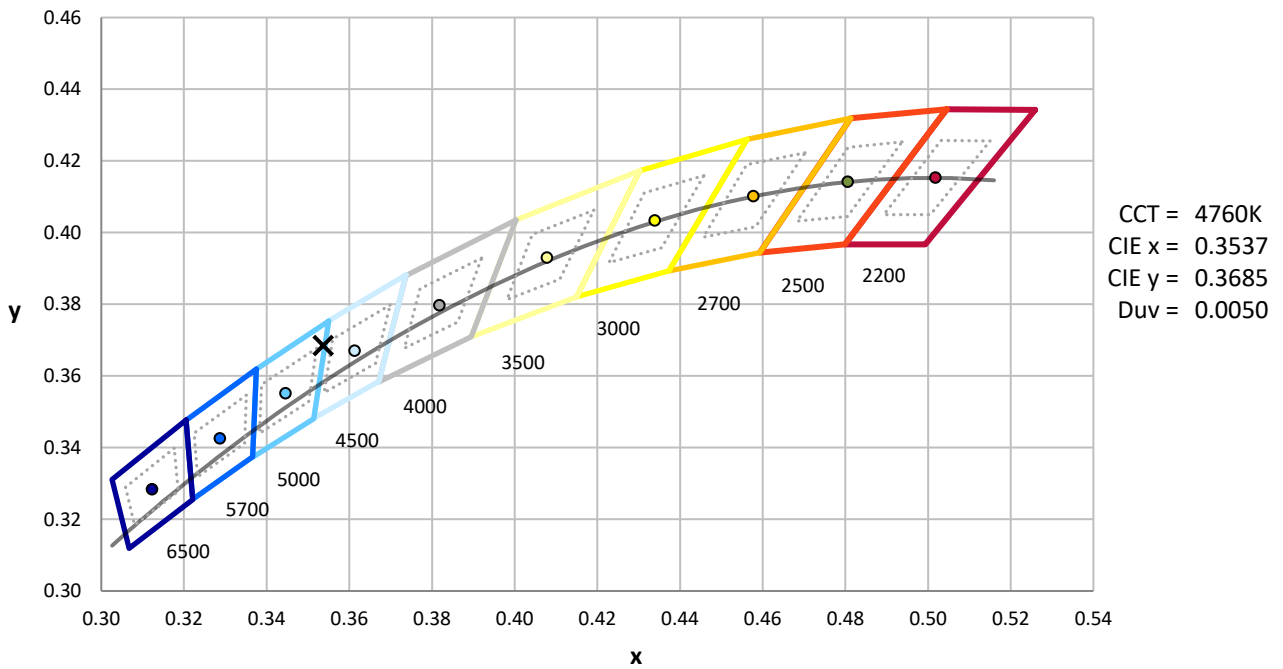
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



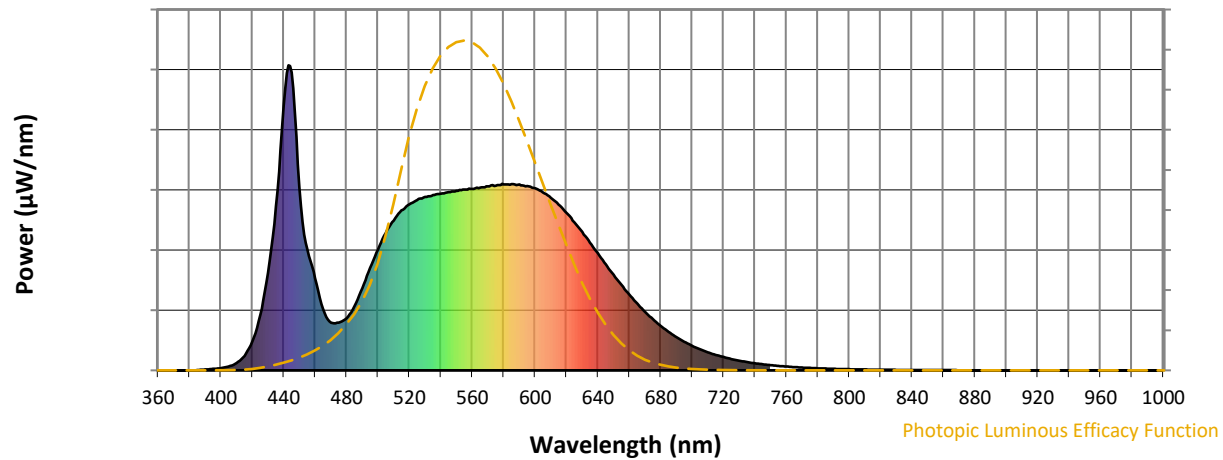
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

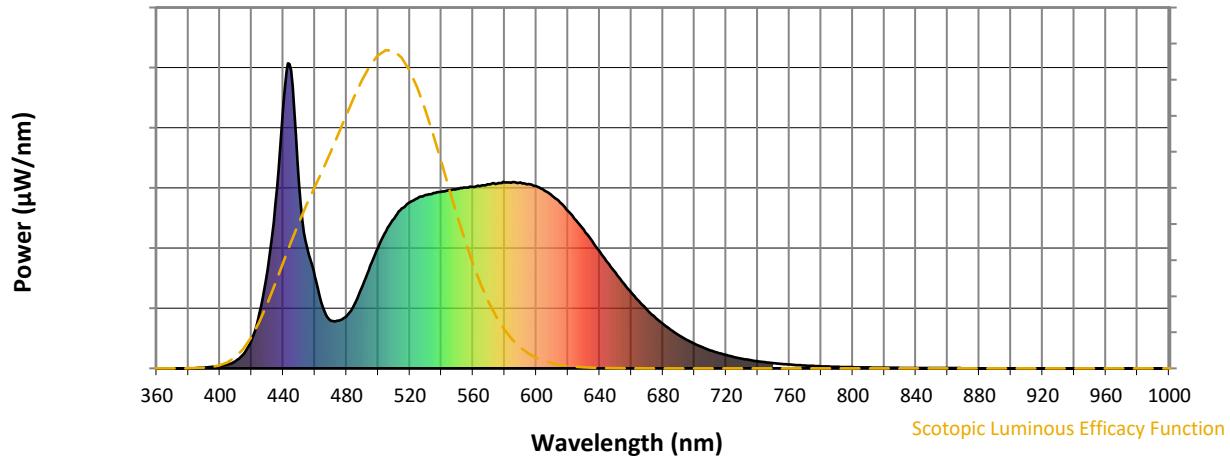


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



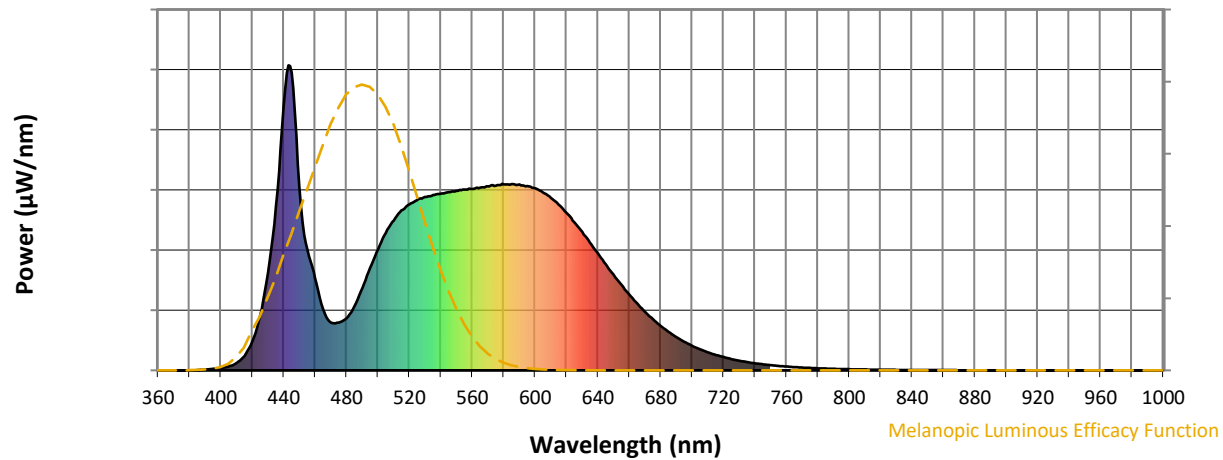
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

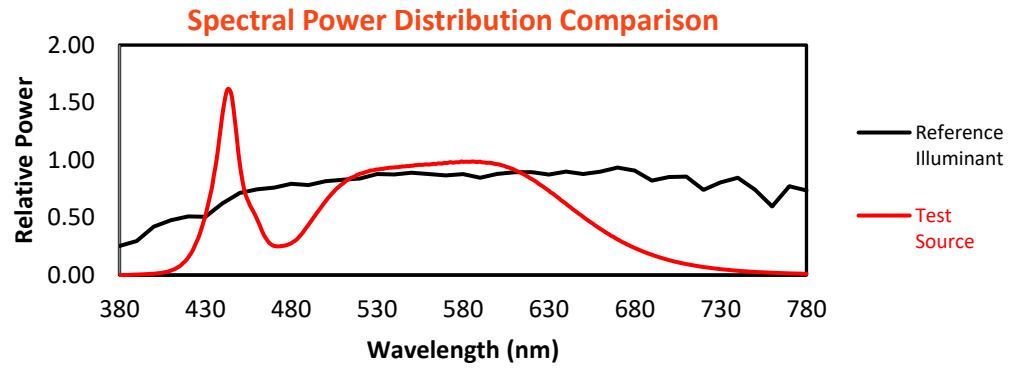
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

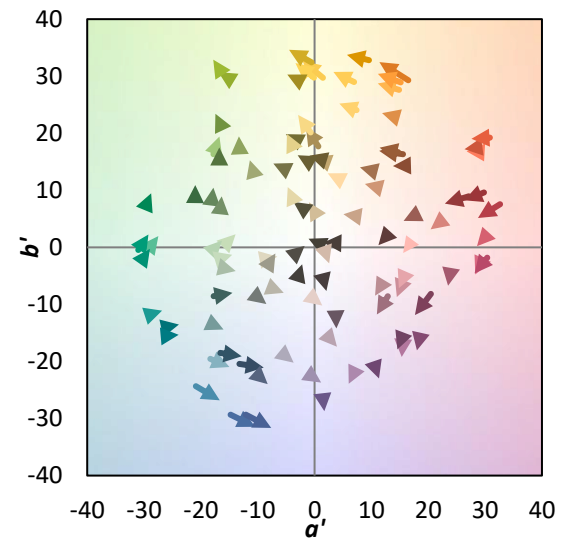
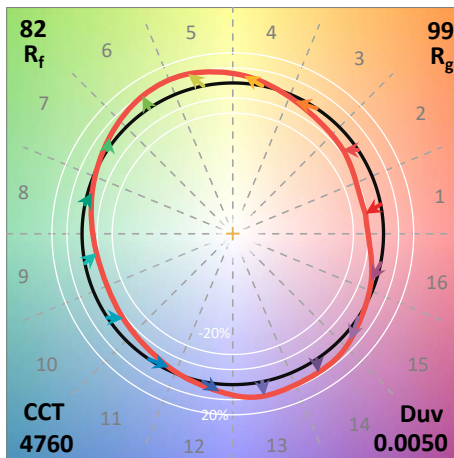
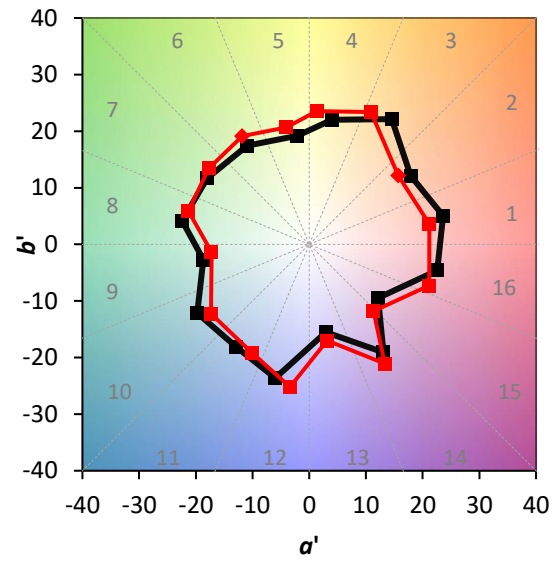
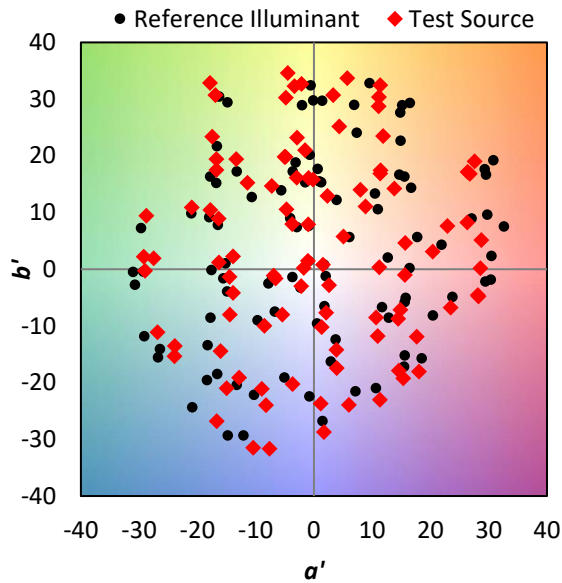
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

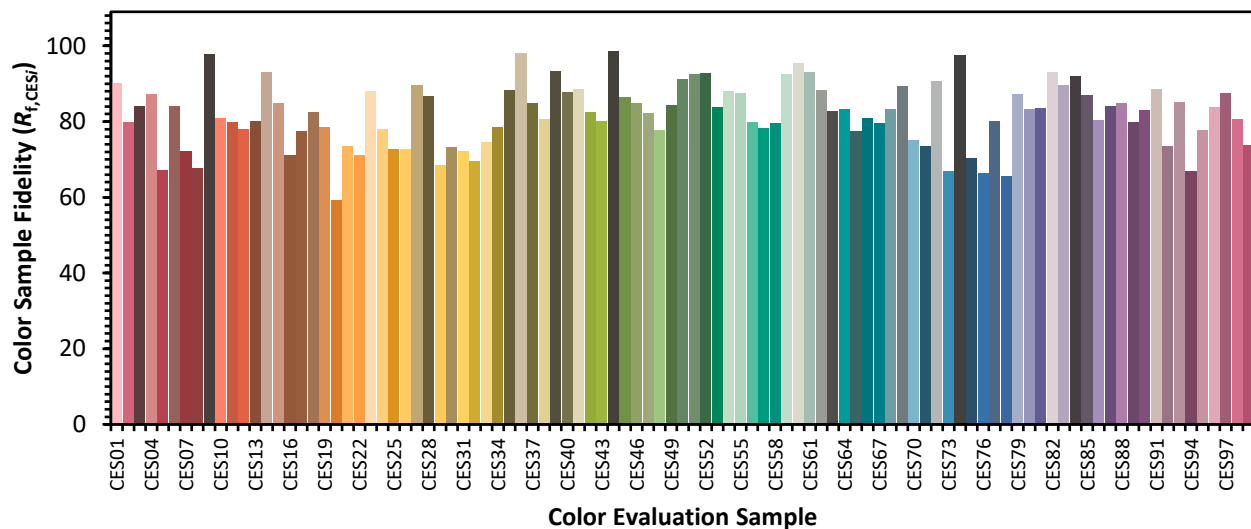


Color Vector Graphics

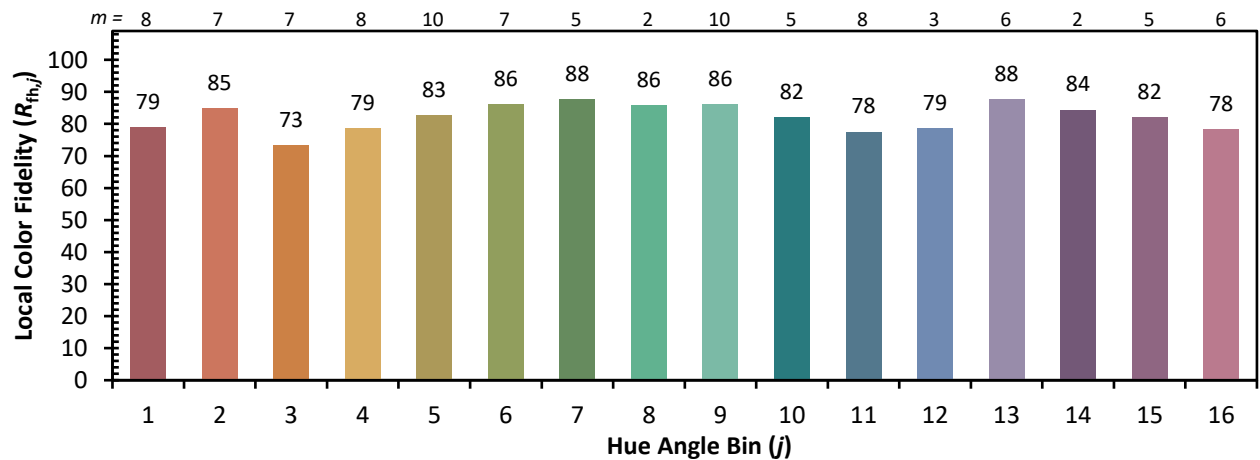
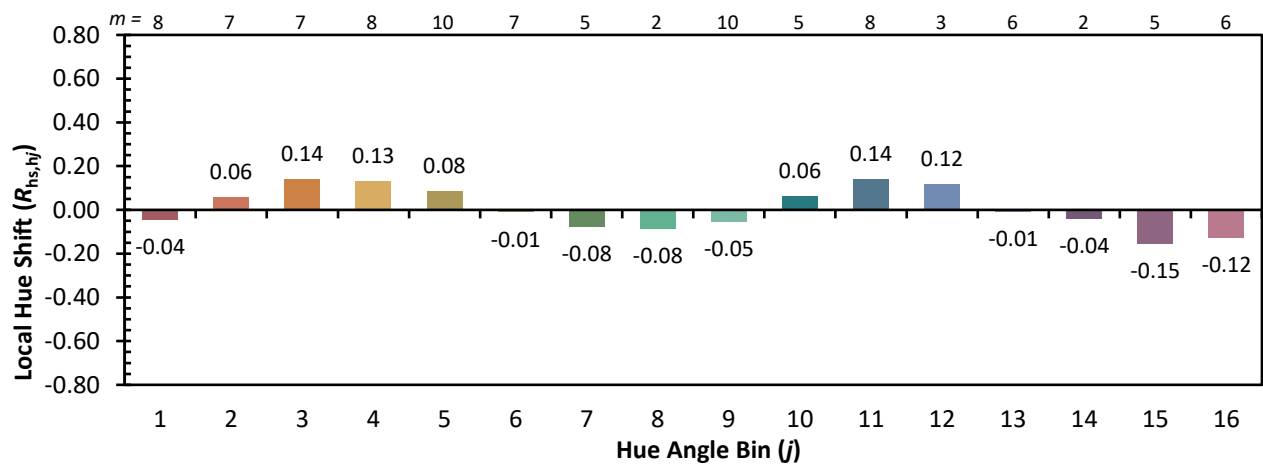
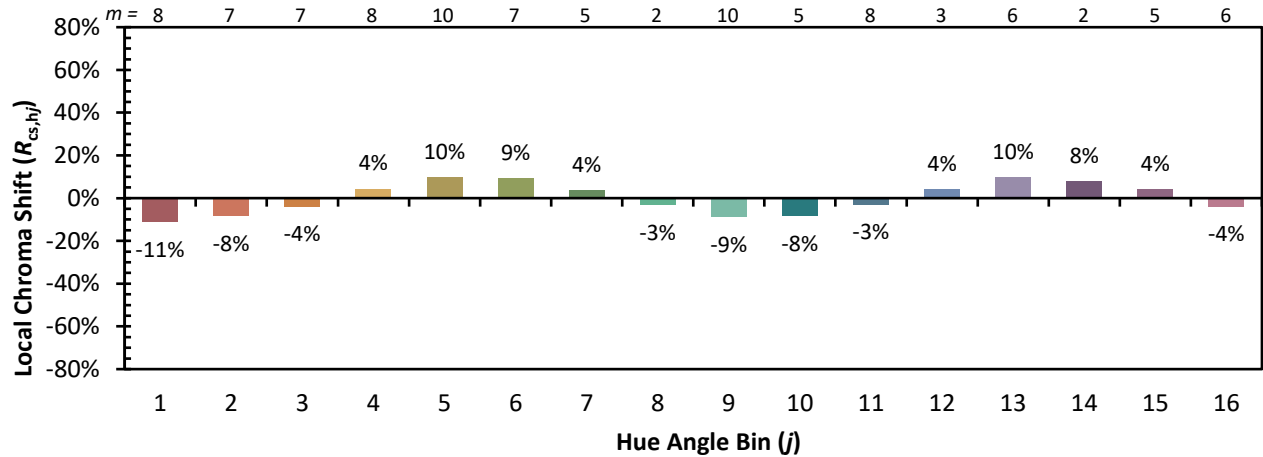


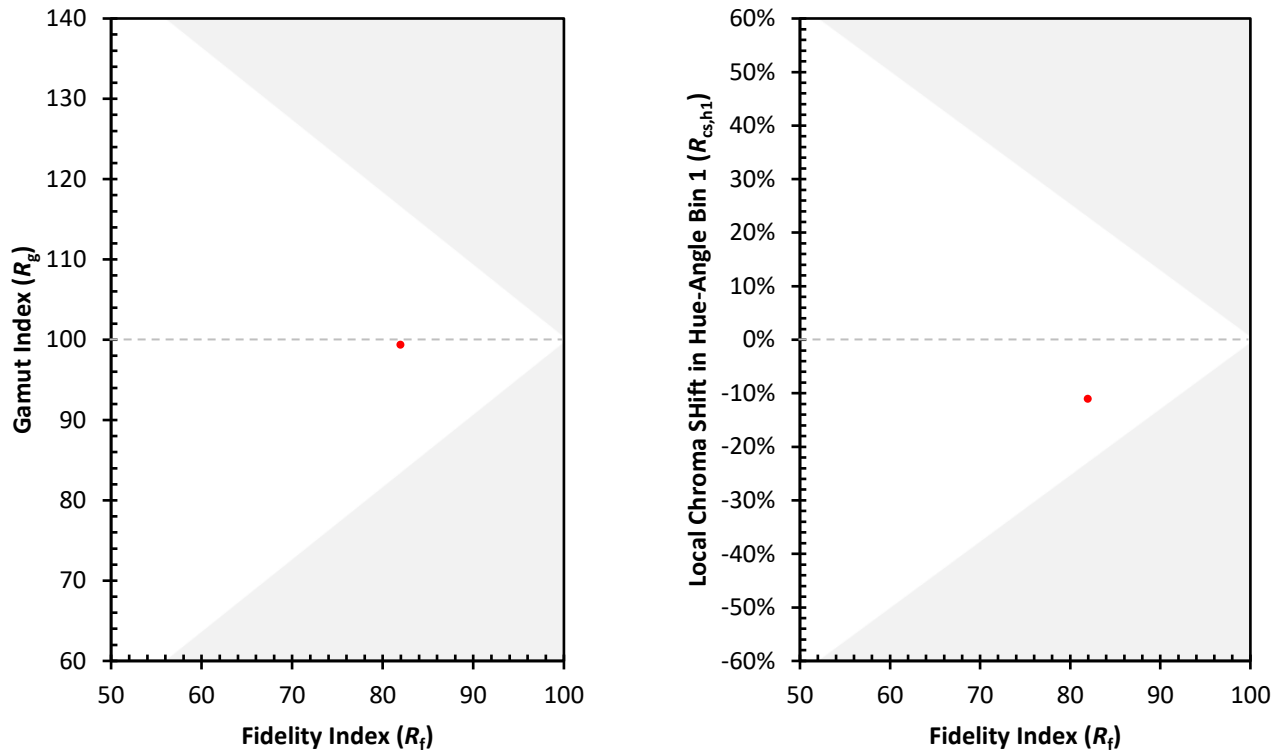
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons


(END OF REPORT)