

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: P1049793

Luminaire Tested: **GALN-SA3A-835-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049793
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
80CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8995.5 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

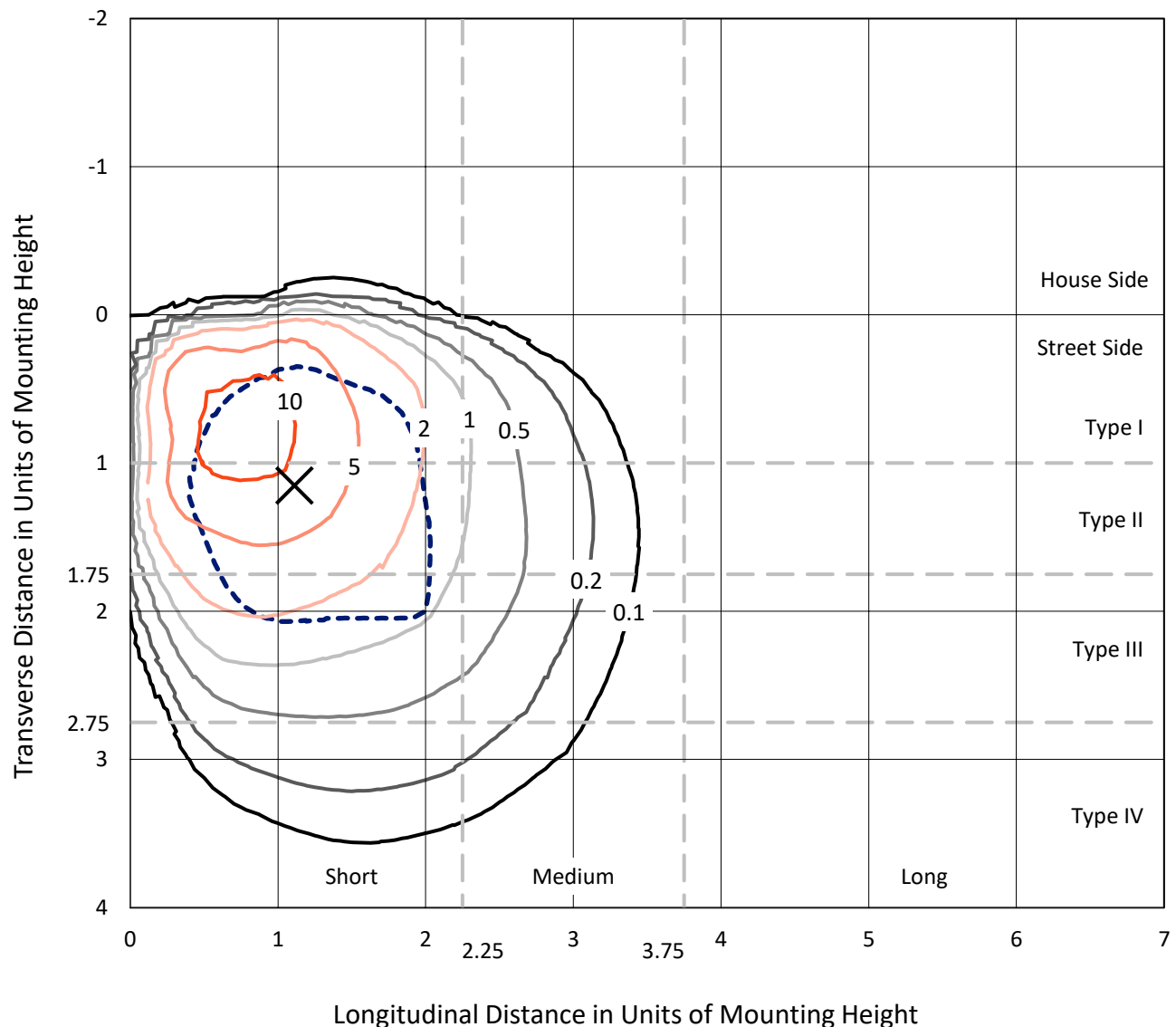
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

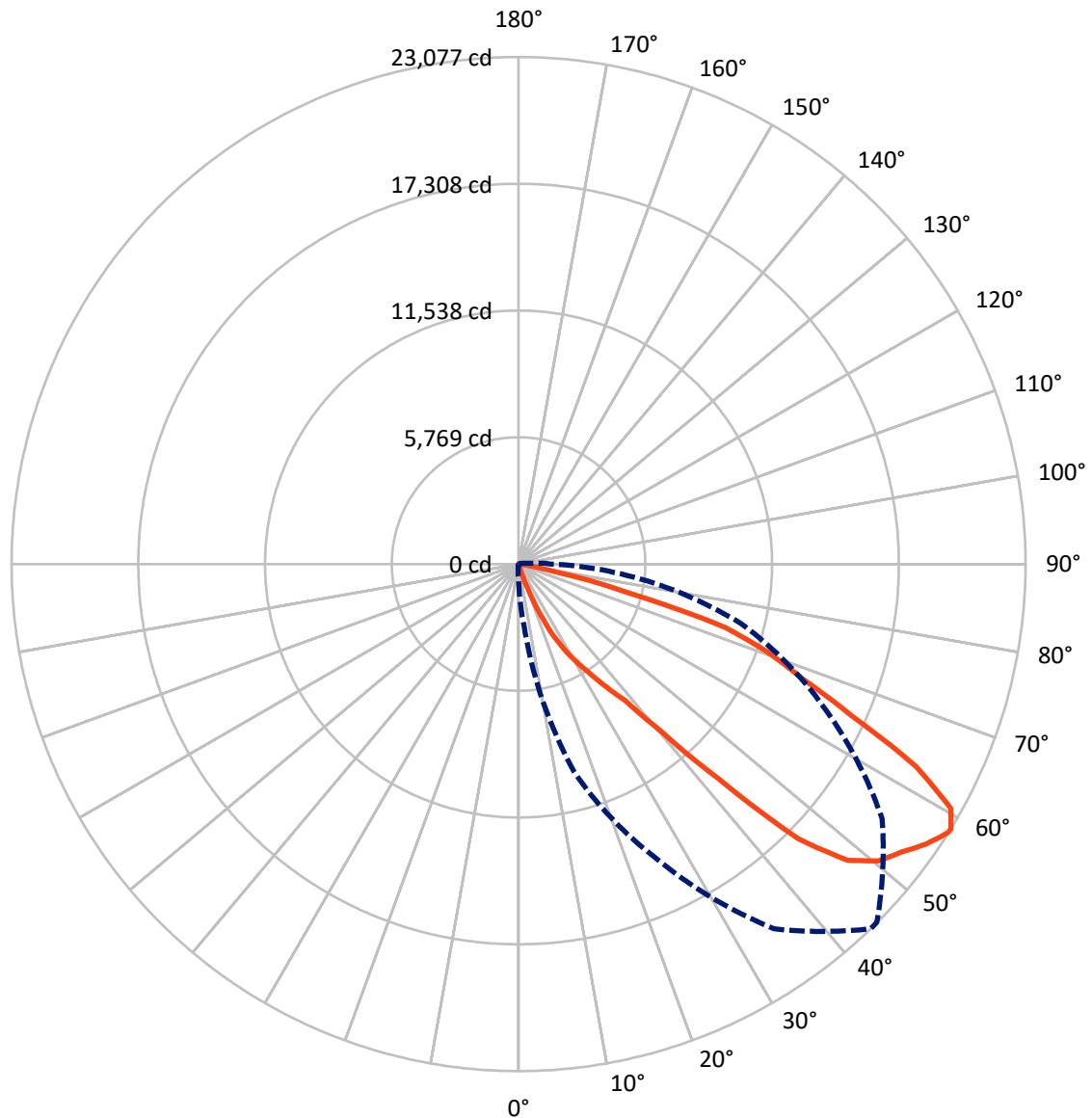
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	61.4	0.0	61.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8934.0	0.0	8934.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	8995.5	0.0	8995.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.0
10°-20°	19.7	0.2
20°-30°	213.1	2.4
30°-40°	630.2	7.0
40°-50°	1878.4	20.9
50°-60°	2980.6	33.1
60°-70°	2486.1	27.6
70°-80°	766.8	8.5
80°-90°	17.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	8995.5	100.0
0°-180°	8995.5	100.0

Coefficient of Utilization



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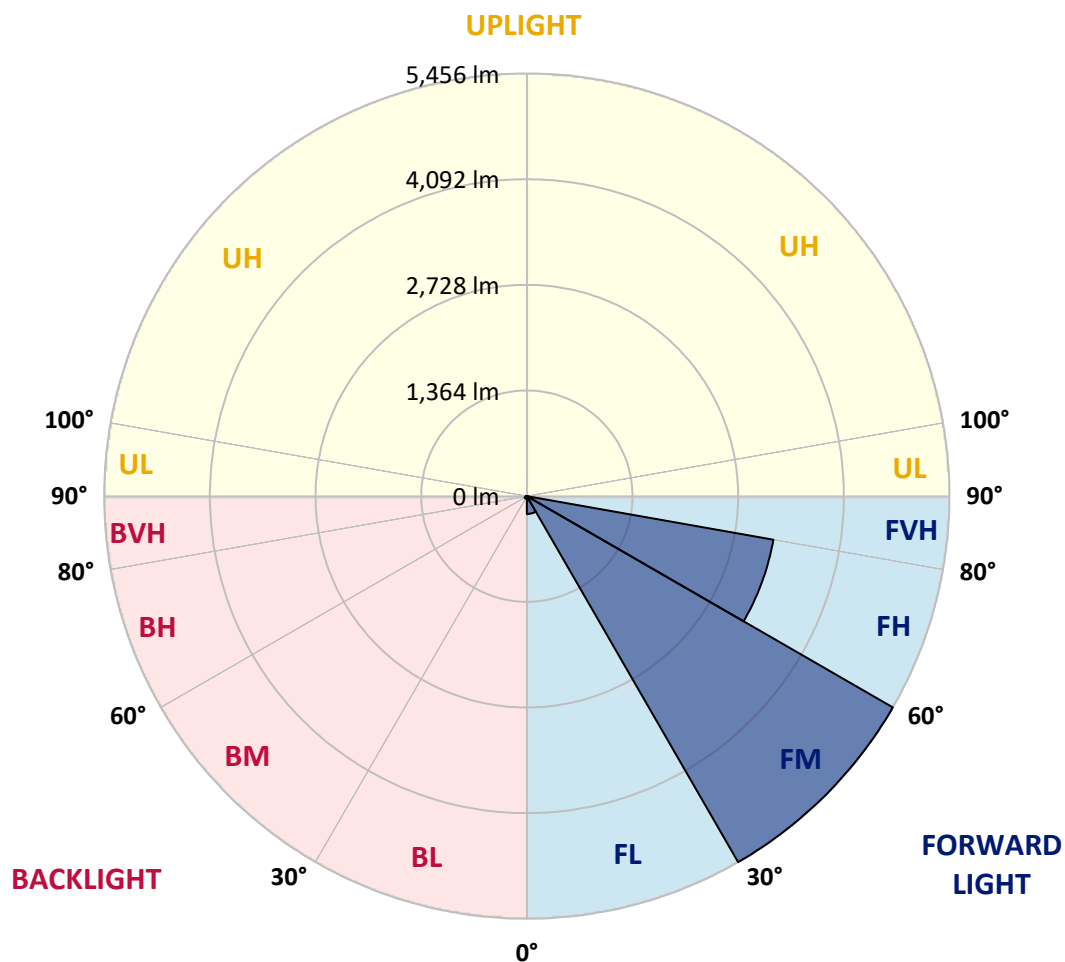
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.3	2.6			
FM	(30°-60°)	5455.6	60.6			
FH	(60°-80°)	3231.9	35.9			G2/5000
FVH	(80°-90°)	16.2	0.2			G1/100
BL	(0°-30°)	6.0	0.1	B0/110		
BM	(30°-60°)	33.6	0.4	B0/220		
BH	(60°-80°)	21.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.8	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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
2.5°	51.0	51.0	48.9	46.2	43.5	40.8	40.1	38.7	38.1	37.4
5°	53.0	53.0	52.3	50.3	47.6	45.5	45.5	43.5	42.1	40.8
7.5°	54.4	55.0	56.4	55.7	54.4	52.3	52.3	51.0	48.9	45.5
10°	56.4	58.4	61.2	62.5	63.2	63.2	62.5	61.8	58.4	53.7
12.5°	58.4	62.5	69.3	76.1	80.2	85.6	84.9	83.6	74.7	64.6
15°	62.5	68.6	82.9	102.6	133.2	152.2	159.7	152.9	123.7	87.0
17.5°	67.3	77.5	120.3	214.7	352.0	417.2	456.6	424.7	281.3	165.1
20°	72.0	94.5	223.6	556.5	913.3	1126.7	1185.8	1093.4	702.0	314.6
22.5°	80.2	132.5	453.2	1150.4	1967.9	2288.0	2348.5	2052.9	1325.8	621.1
25°	97.2	192.3	781.5	1874.8	2936.9	3477.2	3452.0	3064.7	2150.7	992.1
27.5°	121.6	280.0	1181.7	2663.8	3865.2	4341.5	4398.6	3919.5	2866.9	1459.0
30°	157.0	388.0	1611.2	3295.7	4609.3	5124.3	5133.9	4638.5	3507.7	1868.7
32.5°	190.9	489.9	1986.9	3906.6	5342.5	5907.2	5949.3	5339.7	3986.1	2295.5
35°	216.8	556.5	2367.5	4443.4	6081.8	6859.9	6857.1	6133.4	4552.9	2676.7
37.5°	218.8	623.1	2712.0	4992.5	7018.2	7889.3	7975.6	7177.9	5237.8	3148.3
40°	214.1	697.9	3148.3	5848.7	8705.5	10042.1	10118.2	9112.5	6611.8	3955.5
42.5°	219.5	827.7	3856.3	7430.0	11507.2	13426.8	13573.6	12516.3	9137.6	5602.7
45°	248.0	1071.6	5339.7	10075.4	15500.8	17841.1	17792.1	16269.3	12076.6	8110.2
47.5°	342.5	1668.9	7538.7	12650.1	18053.1	20137.2	20179.3	18318.1	13791.7	10038.0
50°	526.6	2553.7	9386.4	14011.2	19150.5	21241.4	21202.0	19051.3	14443.4	10987.3
52.5°	685.0	3193.8	10313.2	14488.9	19291.2	21787.1	21784.4	19244.3	14544.7	11068.9
55°	724.4	3242.0	10320.7	14514.8	19606.5	22501.3	22591.0	19719.3	14675.8	10712.8
57.5°	708.8	2870.3	9889.9	14664.3	20167.8	23053.7	23058.5	20179.3	15008.8	10494.7
58°	695.2	2811.9	9802.9	14749.2	20264.3	23076.8	23065.3	20200.4	15279.9	10486.5
60°	619.1	2441.6	9463.8	14966.0	20120.9	22602.5	22494.5	19740.4	15239.8	10402.9
62.5°	486.5	1904.7	9130.2	14715.2	18583.8	20306.4	20351.3	17476.8	13893.0	9915.7
65°	387.3	1419.5	8434.3	12907.7	15303.0	16675.7	16842.8	14211.7	11596.2	8396.3
67.5°	308.5	1026.1	7075.3	10276.5	12109.2	13917.5	14039.1	11931.9	8984.1	6433.1
70°	250.7	693.8	4883.8	7515.6	9987.7	12020.9	12028.4	9912.3	6705.6	4215.1
72.5°	222.2	480.4	2835.0	5481.1	8098.6	9795.4	9597.7	8043.6	5153.6	2496.6
75°	192.3	318.7	1390.3	3350.8	4910.3	4943.6	5019.0	3731.3	2576.1	1187.1
77.5°	158.3	226.3	547.7	915.3	1472.5	1885.0	1955.0	1481.4	856.9	292.2
80°	108.7	107.4	147.5	280.6	421.3	528.0	492.7	381.2	224.2	112.1
82.5°	46.9	51.0	66.6	80.2	65.2	63.2	60.5	38.7	29.9	23.1
85°	14.9	13.6	14.3	14.3	11.6	8.8	8.8	4.1	0.0	0.0
87.5°	7.5	6.1	6.1	5.4	3.4	1.4	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°
39.4	0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
36.7	2.5°	36.0	36.0	34.7	33.3	32.6	31.3	30.6	29.9	29.2	28.5
39.4	5°	38.1	37.4	35.3	33.3	31.3	29.2	27.9	26.5	25.1	24.5
43.5	7.5°	41.5	40.1	36.0	32.6	29.9	27.2	25.8	23.8	22.4	20.4
48.2	10°	45.5	42.8	37.4	33.3	29.2	25.8	23.8	21.7	19.7	17.0
55.0	12.5°	51.0	46.2	39.4	32.6	27.9	23.8	21.7	19.0	17.0	14.9
63.9	15°	55.7	49.6	40.1	32.6	26.5	21.7	19.0	16.3	14.3	11.6
80.2	17.5°	62.5	52.3	39.4	30.6	24.5	19.0	16.3	14.3	10.9	6.8
118.9	20°	74.1	54.4	38.1	28.5	21.1	15.6	12.2	9.5	4.8	1.4
178.7	22.5°	92.4	59.8	36.7	25.8	18.3	12.2	8.2	3.4	0.0	0.0
271.8	25°	127.8	69.3	36.7	24.5	16.3	8.8	2.7	0.0	0.0	0.0
386.0	27.5°	169.9	82.2	36.7	21.1	12.9	4.8	0.0	0.0	0.0	0.0
526.0	30°	212.7	96.5	36.7	18.3	10.2	0.7	0.0	0.0	0.0	0.0
647.6	32.5°	253.5	108.7	37.4	15.6	6.8	0.0	0.0	0.0	0.0	0.0
816.1	35°	294.9	110.8	36.7	13.6	4.1	0.0	0.0	0.0	0.0	0.0
1022.7	37.5°	347.9	106.7	34.7	12.2	2.0	0.0	0.0	0.0	0.0	0.0
1345.5	40°	428.1	108.7	32.6	11.6	0.7	0.0	0.0	0.0	0.0	0.0
1921.0	42.5°	576.2	117.6	29.9	11.6	0.0	0.0	0.0	0.0	0.0	0.0
3059.9	45°	996.2	157.7	27.2	12.2	0.0	0.0	0.0	0.0	0.0	0.0
4593.6	47.5°	1647.9	283.4	26.5	12.2	0.0	0.0	0.0	0.0	0.0	0.0
5533.4	50°	2103.1	356.8	27.9	12.9	0.0	0.0	0.0	0.0	0.0	0.0
5651.0	52.5°	2099.7	397.5	29.2	13.6	2.7	0.0	0.0	0.0	0.0	0.0
5208.6	55°	1866.7	405.0	31.3	14.9	8.8	0.0	0.0	0.0	0.0	0.0
4476.1	57.5°	1560.2	369.7	36.0	18.3	16.3	0.0	0.0	0.0	0.0	0.0
4361.2	58°	1505.8	353.4	37.4	19.0	17.7	0.0	0.0	0.0	0.0	0.0
3782.9	60°	1234.0	288.1	47.6	23.8	23.8	0.0	0.0	0.0	0.0	0.0
3101.4	62.5°	852.1	251.4	54.4	30.6	24.5	0.0	0.0	0.0	0.0	0.0
2286.6	65°	602.7	227.0	59.1	32.6	19.7	0.0	0.0	0.0	0.0	0.0
1624.8	67.5°	450.5	209.3	65.2	33.3	10.2	0.0	0.0	0.0	0.0	0.0
1019.3	70°	345.2	196.4	80.2	35.3	2.7	0.0	0.0	0.0	0.0	0.0
607.5	72.5°	281.3	181.4	97.2	36.7	0.0	0.0	0.0	0.0	0.0	0.0
364.2	75°	233.1	163.8	93.8	40.1	0.0	0.0	0.0	0.0	0.0	0.0
194.3	77.5°	154.9	127.1	85.6	40.1	0.0	0.0	0.0	0.0	0.0	0.0
69.3	80°	54.4	50.3	66.6	35.3	0.0	0.0	0.0	0.0	0.0	0.0
14.3	82.5°	8.2	6.8	9.5	12.2	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
39.4	0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
27.9	2.5°	27.9	27.9	27.2	27.9	27.9	29.2	32.6	37.4	42.8	44.8
23.8	5°	23.1	22.4	21.7	21.7	21.7	23.8	26.5	31.9	38.1	40.8
19.7	7.5°	19.0	18.3	17.7	17.0	17.0	18.3	21.7	27.9	34.0	36.7
16.3	10°	15.6	14.3	13.6	12.9	12.9	14.3	17.7	23.8	30.6	33.3
13.6	12.5°	12.9	10.9	9.5	8.8	8.2	10.2	13.6	19.0	26.5	29.9
10.2	15°	8.8	6.8	4.8	4.1	3.4	5.4	8.8	14.9	22.4	26.5
5.4	17.5°	4.8	2.0	0.7	0.0	0.0	1.4	4.1	10.9	18.3	21.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.6	17.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.2	11.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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	2.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4
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°
39.4	0°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
46.9	2.5°	48.2	47.6	46.2	44.8	44.8	44.8	46.9	48.9	51.0	51.0
42.1	5°	44.8	44.8	44.2	42.8	42.8	43.5	46.2	49.6	52.3	53.0
38.7	7.5°	41.5	42.8	41.5	40.8	41.5	42.1	44.8	48.9	53.0	54.4
36.0	10°	39.4	40.1	40.1	39.4	39.4	40.8	43.5	48.9	54.4	56.4
32.6	12.5°	36.7	38.1	37.4	37.4	37.4	38.7	42.1	48.2	55.7	58.4
29.2	15°	34.0	36.0	36.0	35.3	35.3	36.0	40.8	47.6	57.8	62.5
25.1	17.5°	31.3	33.3	34.0	32.6	32.6	34.0	38.7	47.6	59.1	67.3
20.4	20°	25.8	29.2	31.3	29.2	29.2	30.6	35.3	44.8	59.8	72.0
14.9	22.5°	20.4	23.8	26.5	25.8	25.8	26.5	32.6	42.8	60.5	80.2
8.8	25°	14.9	18.3	20.4	21.7	21.7	23.8	29.9	41.5	63.2	97.2
4.1	27.5°	8.8	12.9	15.6	17.0	17.7	20.4	27.9	40.1	68.0	121.6
0.0	30°	4.1	7.5	10.9	13.6	13.6	18.3	25.8	38.7	74.1	157.0
0.0	32.5°	0.0	3.4	5.4	9.5	10.2	14.9	23.8	37.4	82.9	190.9
0.0	35°	0.0	0.0	2.7	7.5	7.5	12.2	21.7	36.0	96.5	216.8
0.0	37.5°	0.0	0.0	0.0	5.4	6.1	10.9	21.1	35.3	99.2	218.8
0.0	40°	0.0	0.0	0.0	4.1	4.8	10.2	21.1	36.0	89.7	214.1
0.0	42.5°	0.0	0.0	0.0	2.7	3.4	10.2	21.1	37.4	80.9	219.5
0.0	45°	0.0	0.0	0.0	2.0	2.7	10.9	20.4	36.7	76.1	248.0
0.0	47.5°	0.0	0.0	0.0	2.7	4.1	10.9	19.7	36.0	76.8	342.5
0.0	50°	0.0	0.0	0.0	3.4	4.8	10.9	20.4	34.7	84.3	526.6
0.0	52.5°	0.0	0.0	0.0	2.7	4.1	12.2	22.4	34.0	91.7	685.0
0.0	55°	0.0	0.0	0.0	0.7	2.0	15.6	24.5	34.0	103.3	724.4
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	17.7	27.9	36.0	122.3	708.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	17.7	28.5	36.0	123.7	695.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	17.7	31.3	40.1	133.2	619.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	14.9	37.4	50.3	138.6	486.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	12.2	44.2	55.0	142.7	387.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	11.6	45.5	55.7	144.7	308.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	12.2	44.8	59.8	151.5	250.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	13.6	40.8	65.9	151.5	222.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	14.3	38.1	74.1	137.9	192.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	13.6	37.4	86.3	123.0	158.3
0.0	80°	1.4	2.0	2.0	1.4	1.4	11.6	36.7	87.7	104.6	108.7
0.7	82.5°	4.1	5.4	4.8	3.4	3.4	10.2	32.6	73.4	54.4	46.9
4.1	85°	7.5	8.8	8.8	7.5	7.5	9.5	20.4	26.5	18.3	14.9
7.5	87.5°	10.2	11.6	11.6	10.2	10.2	9.5	8.8	8.2	7.5	7.5
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: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

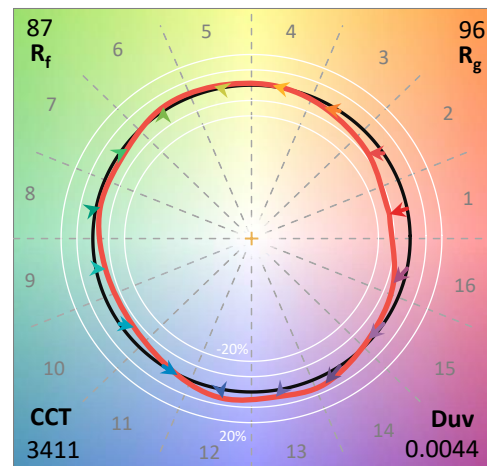
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-10
 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-835-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3411
 CIE u' : 0.2360
 CIE v' : 0.5189
 Duv: 0.0044
 CIE x: 0.4154
 CIE y: 0.4059
 CIE z: 0.1787
 Peak Wavelength (nm): 601
 Dominant Wavelength (nm): 579
 Purity: 46.51914
 R_f: 86.6
 R_g: 95.9

CRI (Ra): 83.5
 R1: 81.1
 R2: 88.9
 R3: 97.2
 R4: 83.8
 R5: 81.7
 R6: 86.9
 R7: 86.1
 R8: 62.2
 R9: 6.3
 R10: 75.4
 R11: 84.1
 R12: 69.7
 R13: 82.8
 R14: 98.5
 R15: 72.6



Test Conditions

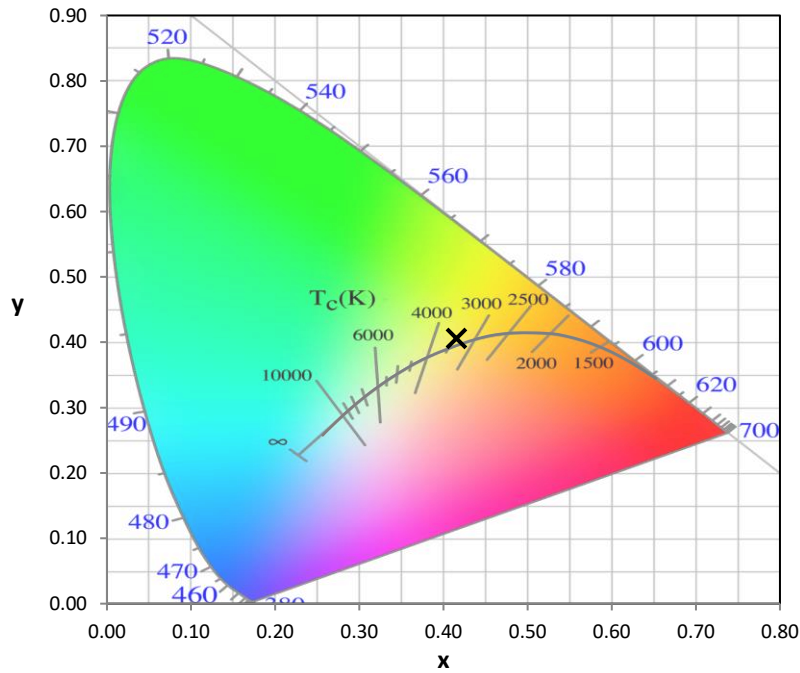
Stabilization Time: 35M
 Operation Time: 1H 35M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-10

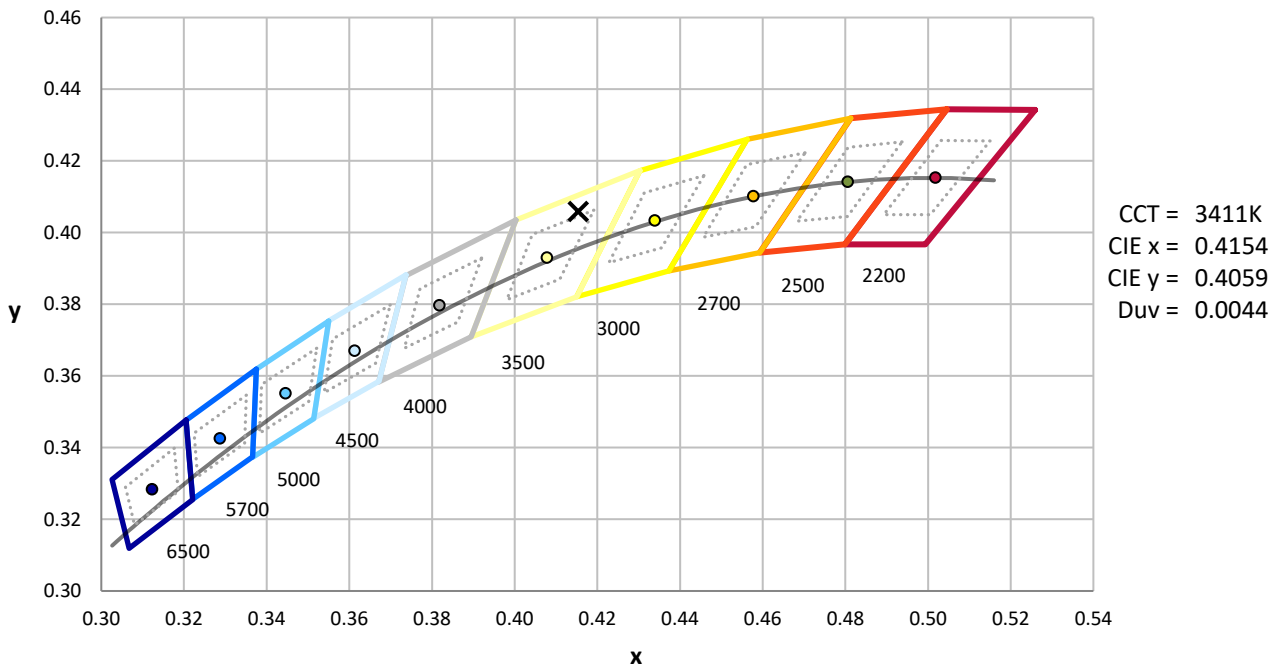
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



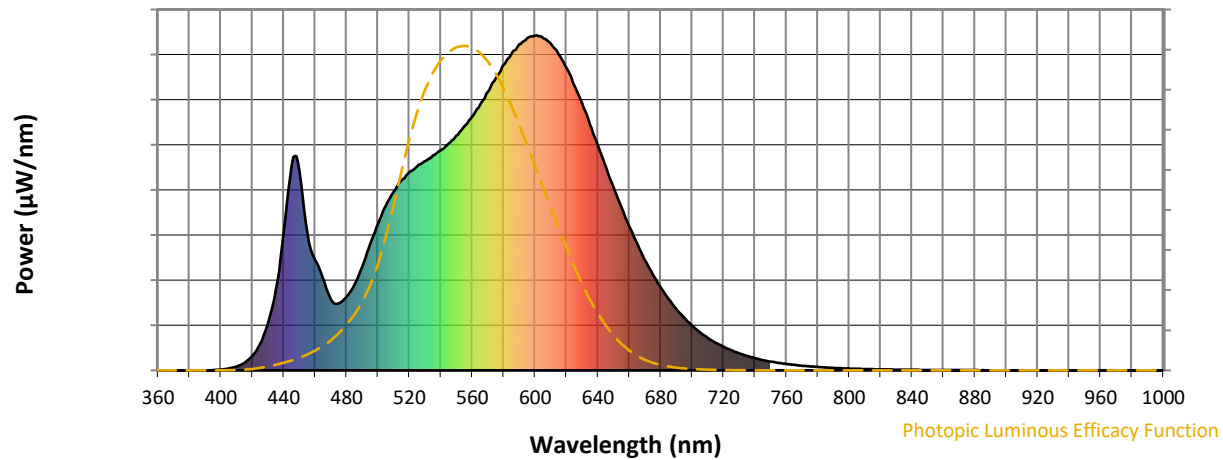
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

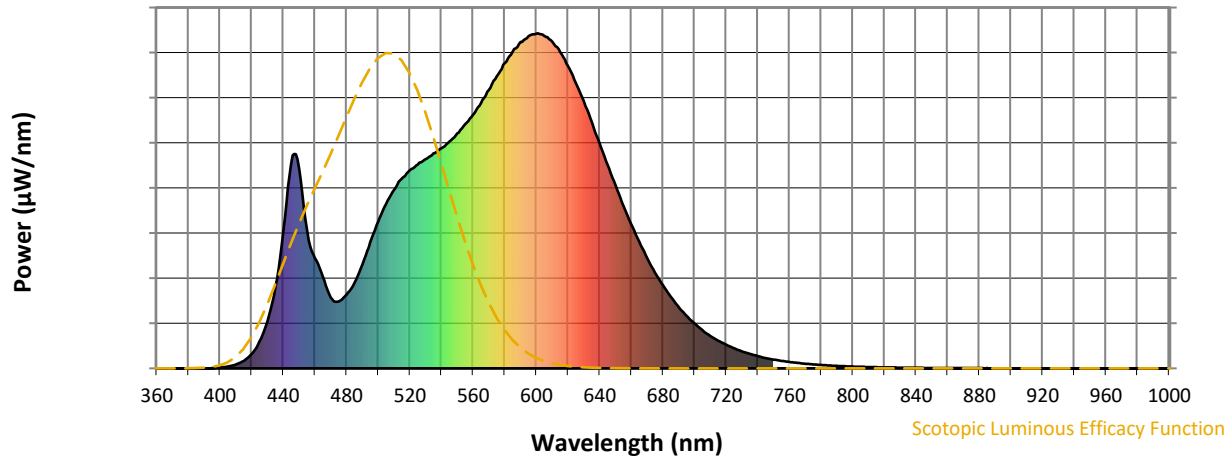


Photopic Lumens: NR

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength



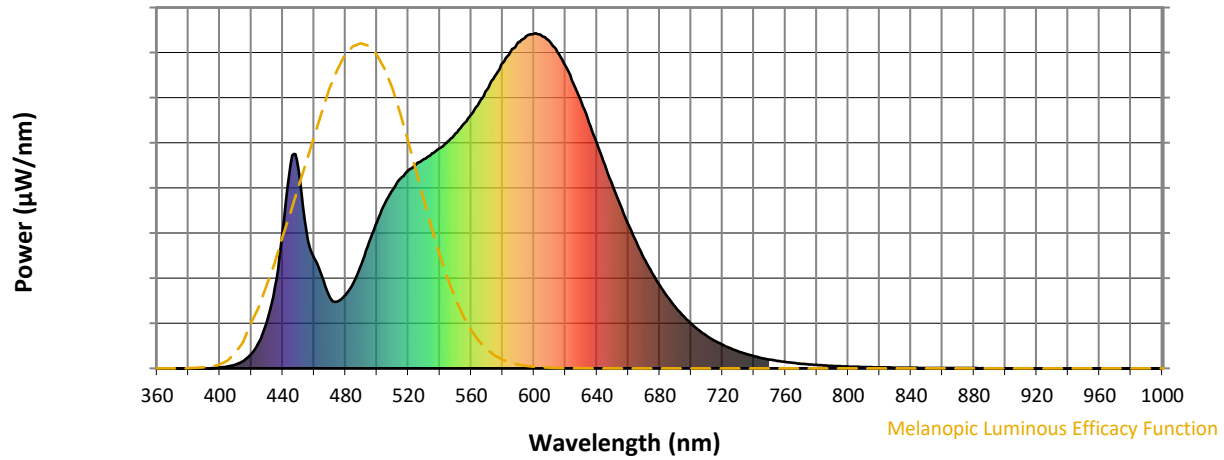
Scotopic Lumens: NR

S/P: 1.48

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	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.88

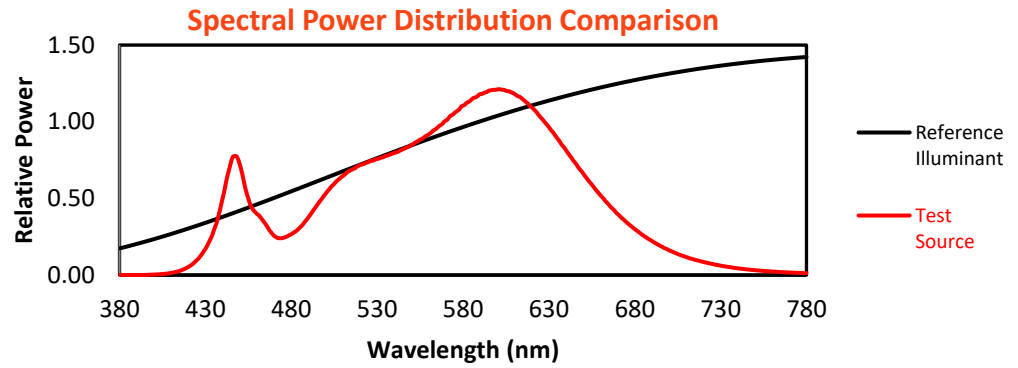
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

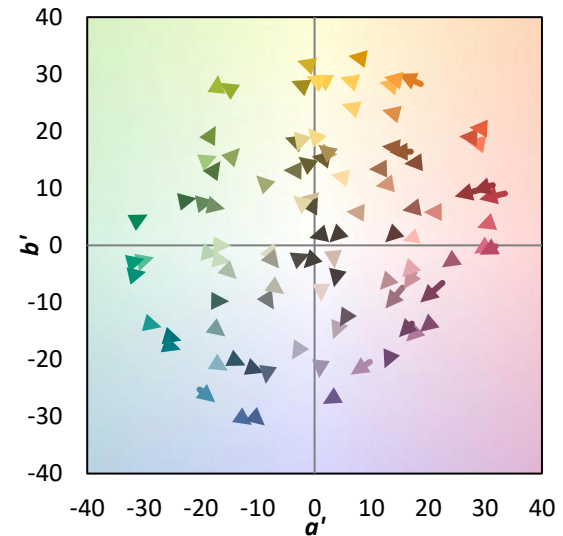
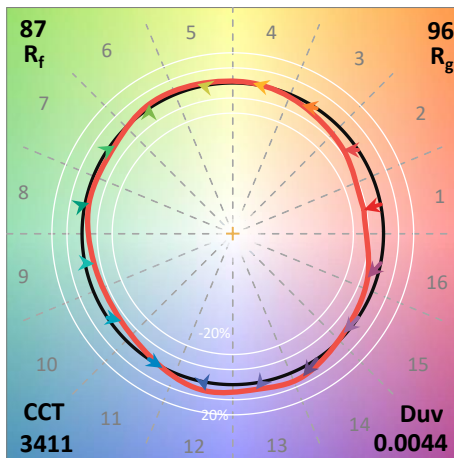
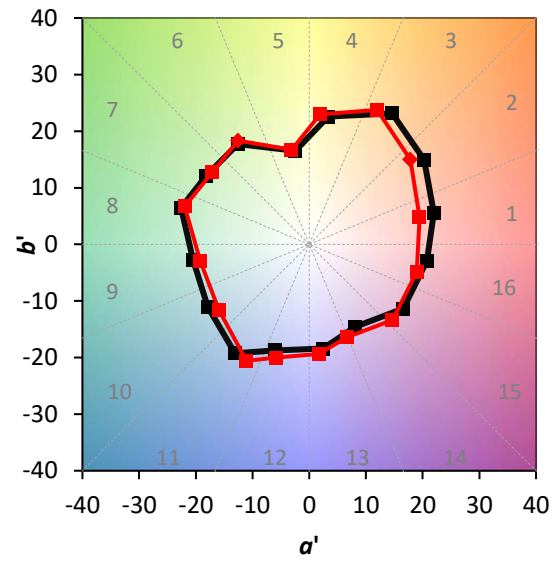
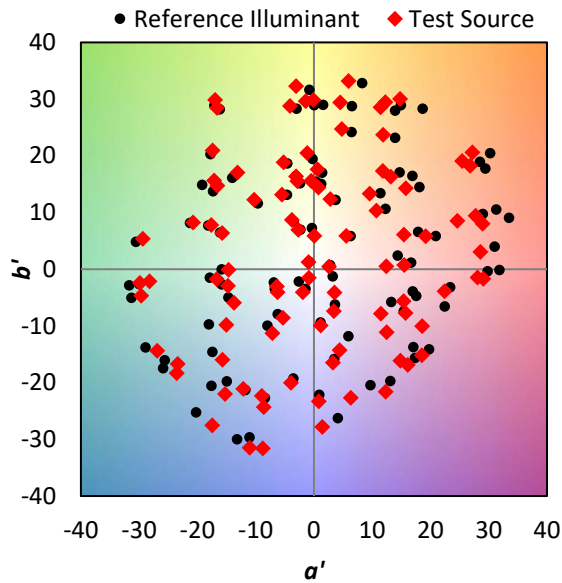
TM-30-18

Summary

$R_f = 86.6$
 $R_g = 95.9$
 $CIE R_a = 83.5$
 $R_9 = 6.3$

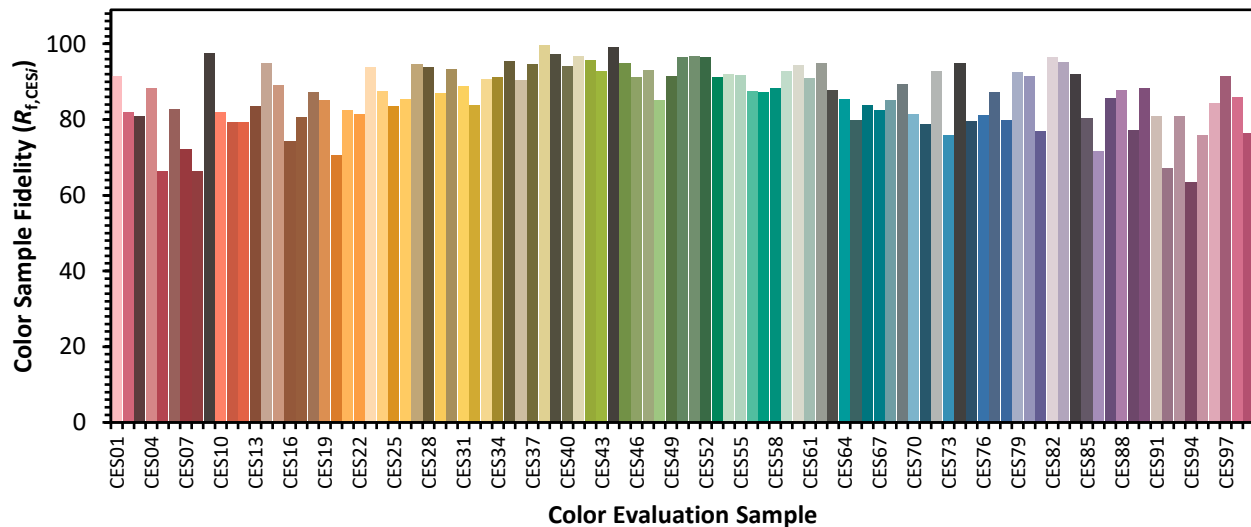


Color Vector Graphics

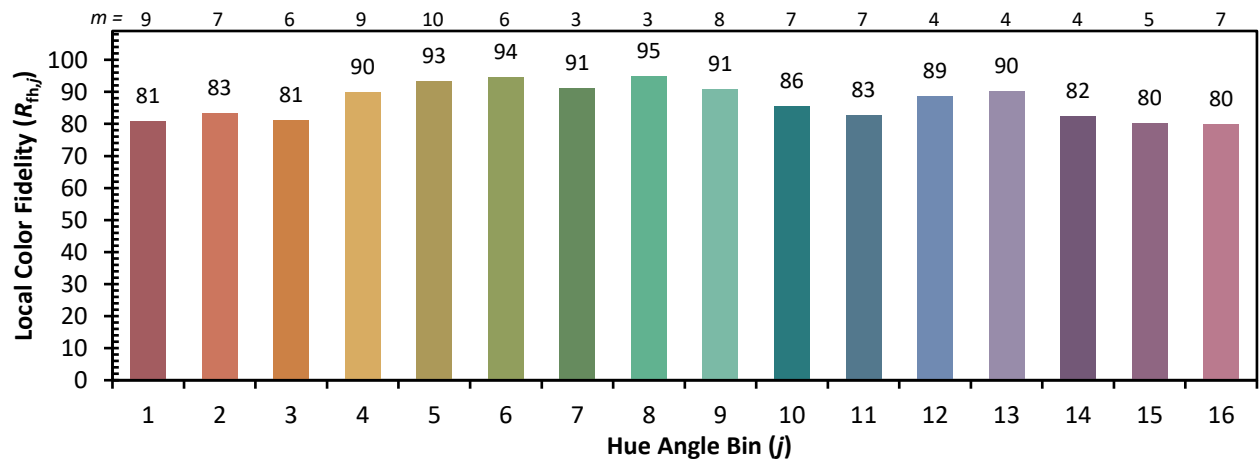
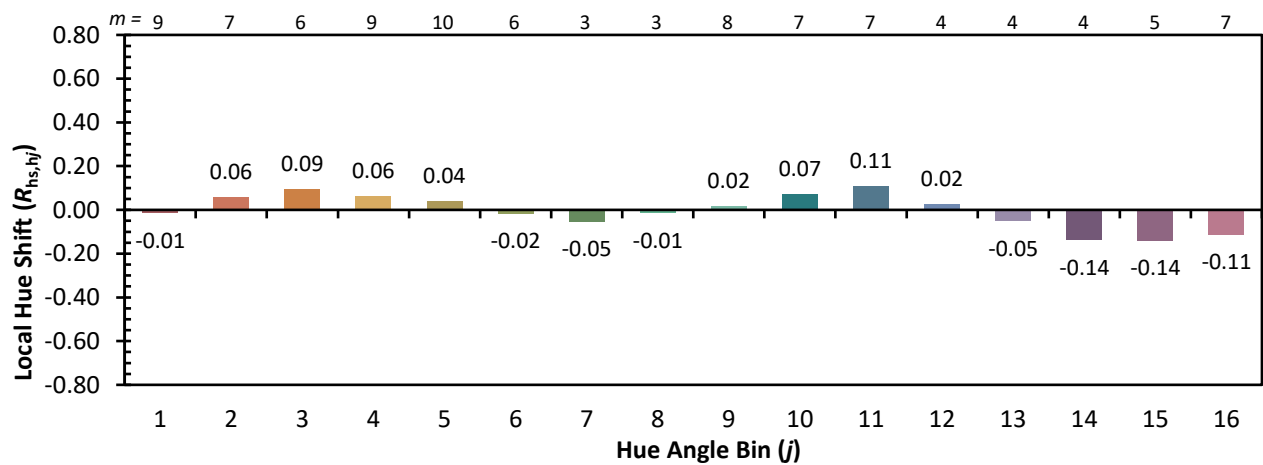
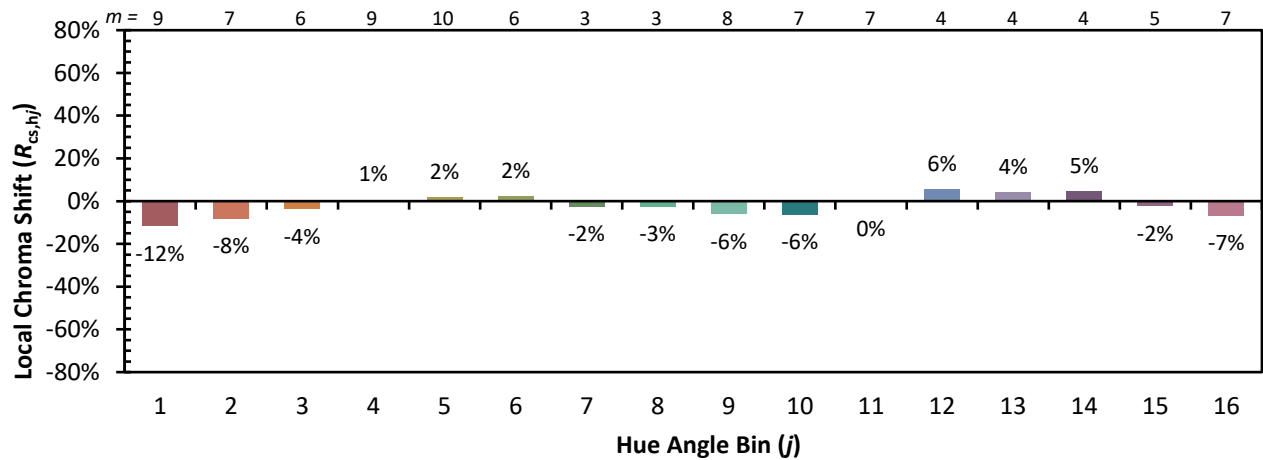


Individual Sample Fidelity Index ($R_{f,i}$)

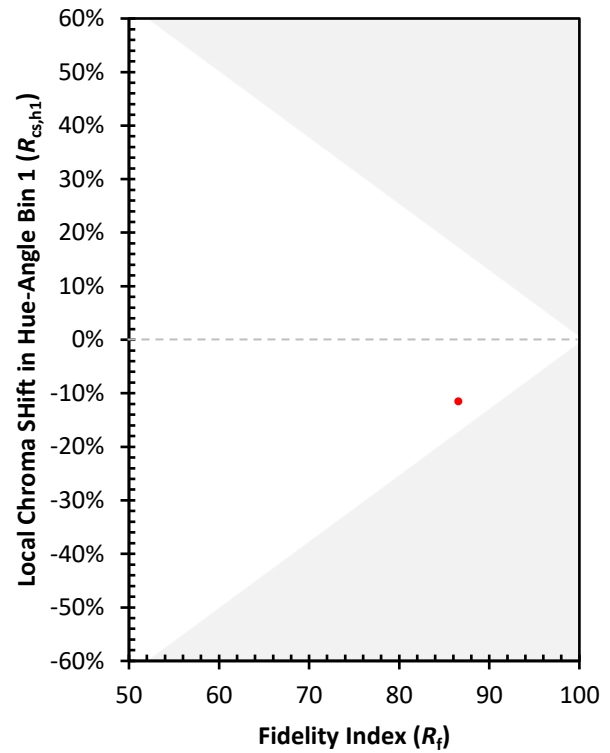
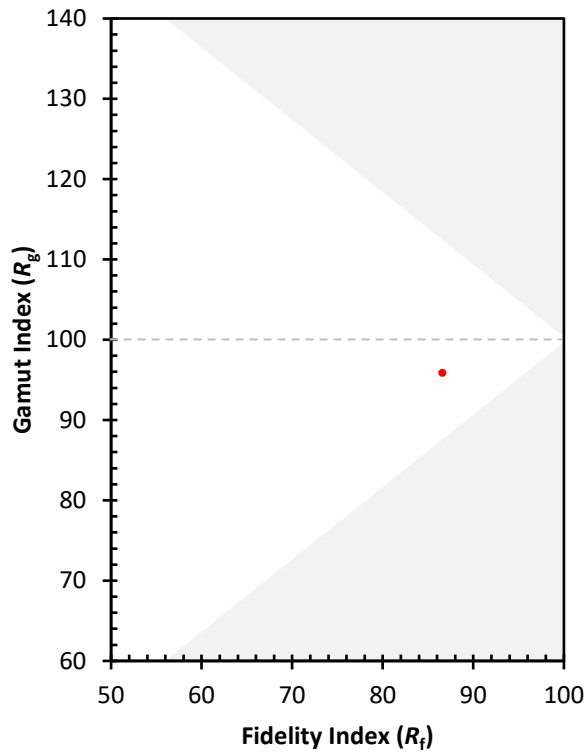
CES01 = 86	CES26 = 85	CES51 = 97	CES76 = 81
CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
CES23 = 91	CES48 = 85	CES73 = 76	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 95	CES99 = 77
CES25 = 72	CES50 = 96	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)