

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: P1049777

Luminaire Tested: **GALN-SA8A-830-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049777
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23427 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

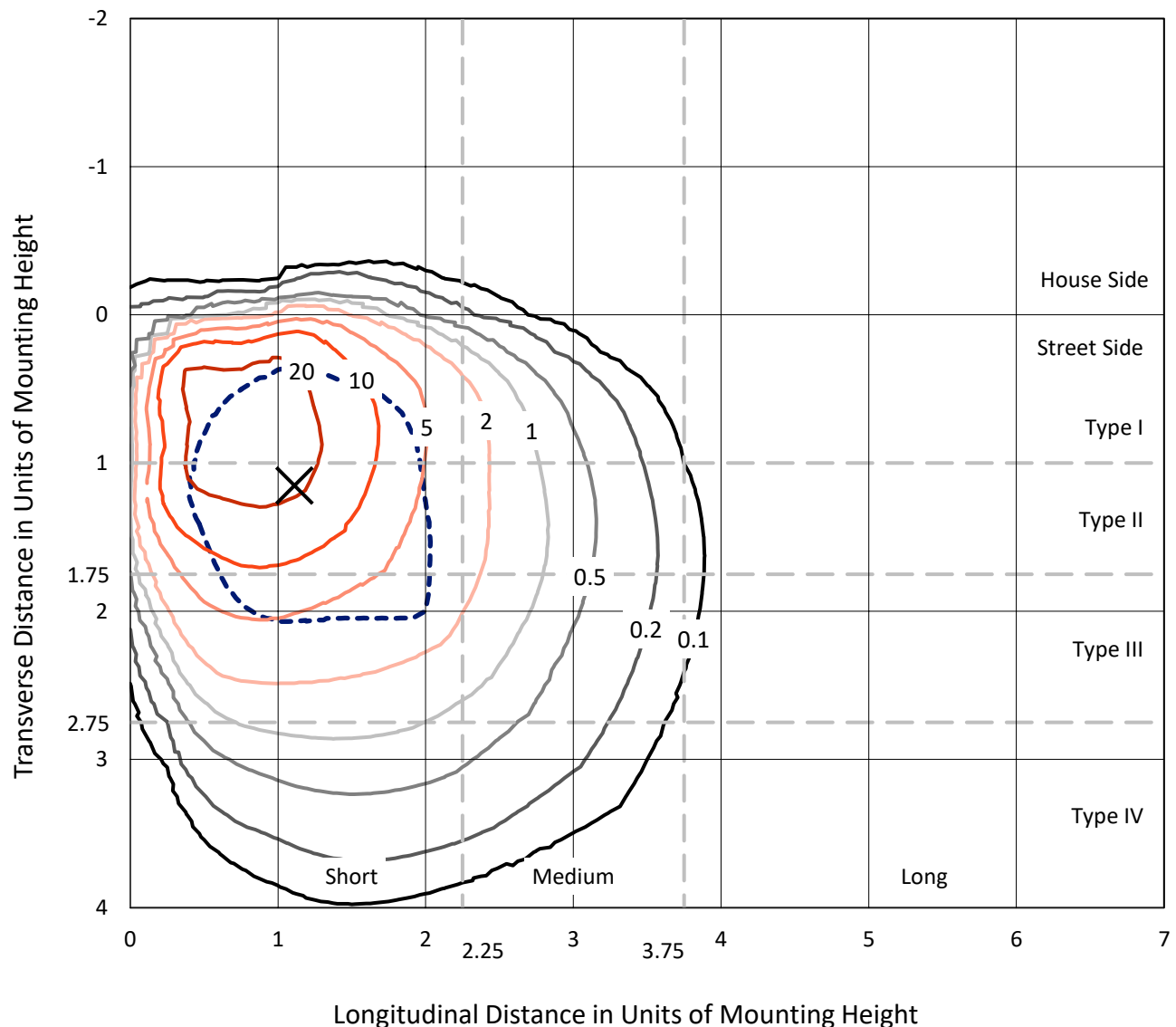
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

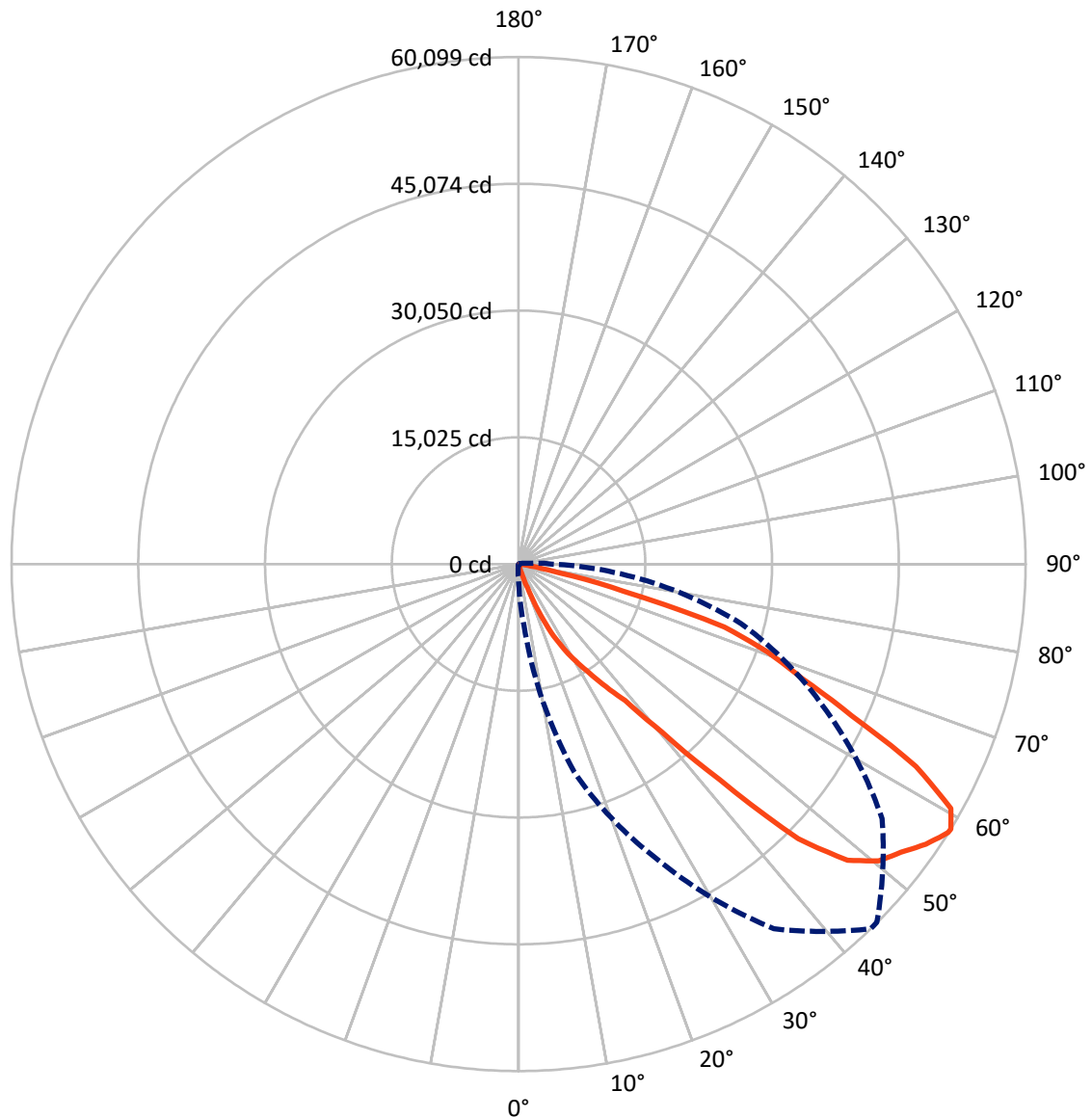


Based on 20 foot mounting height. Maximum calculated value = 40.8 fc
 Type III - Short - N/A

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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	160.0	0.0	160.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23267.0	0.0	23267.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	23427.0	0.0	23427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.0
10°-20°	51.4	0.2
20°-30°	555.0	2.4
30°-40°	1641.3	7.0
40°-50°	4891.9	20.9
50°-60°	7762.3	33.1
60°-70°	6474.7	27.6
70°-80°	1996.9	8.5
80°-90°	44.4	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°	23427.0	100.0
0°-180°	23427.0	100.0

Coefficient of Utilization



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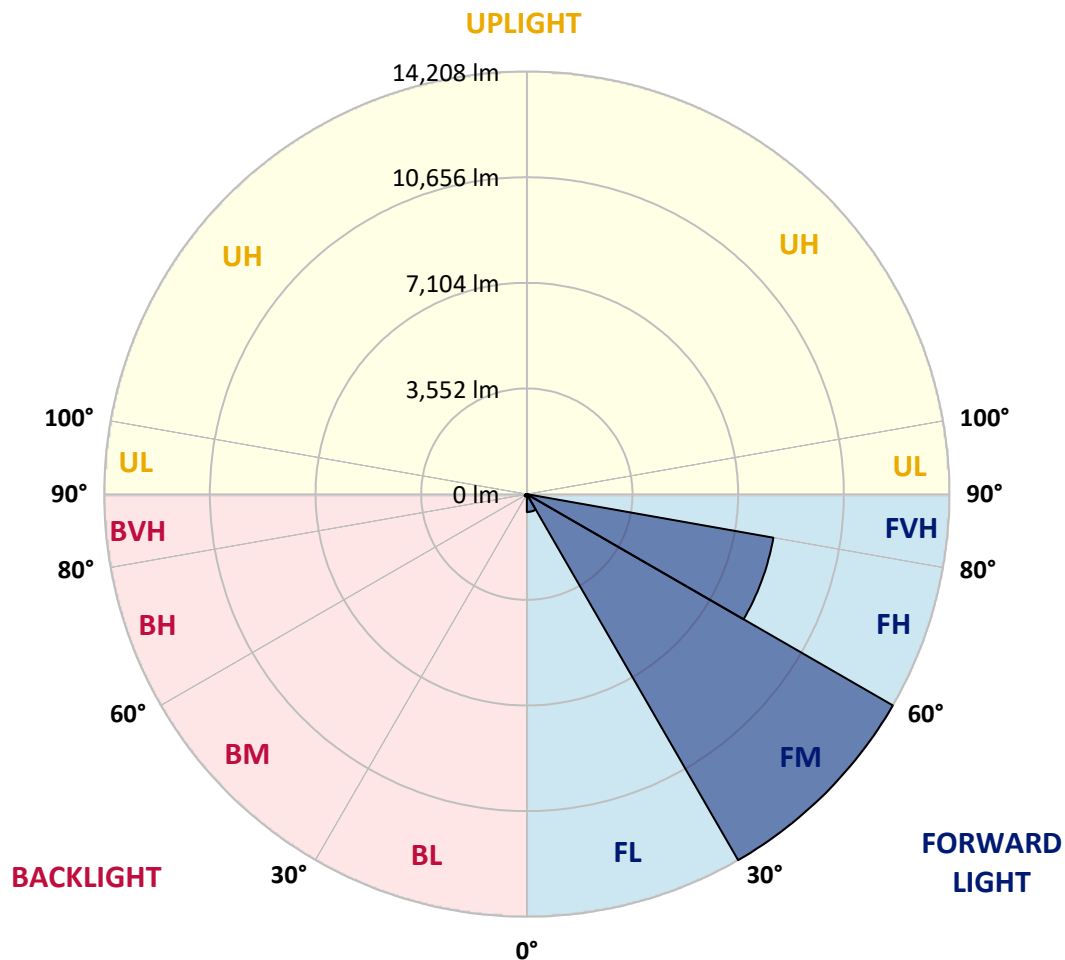
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.9	2.6			
FM	(30°-60°)	14208.0	60.6			
FH	(60°-80°)	8417.0	35.9			G4/12000
FVH	(80°-90°)	42.2	0.2			G1/100
BL	(0°-30°)	15.6	0.1	B0/110		
BM	(30°-60°)	87.6	0.4	B0/220		
BH	(60°-80°)	54.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
2.5°	132.7	132.7	127.4	120.3	113.3	106.2	104.4	100.9	99.1	97.3
5°	138.0	138.0	136.3	131.0	123.9	118.6	118.6	113.3	109.7	106.2
7.5°	141.6	143.3	146.9	145.1	141.6	136.3	136.3	132.7	127.4	118.6
10°	146.9	152.2	159.3	162.8	164.6	164.6	162.8	161.0	152.2	139.8
12.5°	152.2	162.8	180.5	198.2	208.8	223.0	221.2	217.7	194.7	168.1
15°	162.8	178.7	215.9	267.2	346.9	396.4	415.9	398.2	322.1	226.5
17.5°	175.2	201.7	313.2	559.2	916.7	1086.6	1189.2	1106.1	732.7	430.0
20°	187.6	246.0	582.2	1449.4	2378.5	2934.2	3088.1	2847.5	1828.1	819.4
22.5°	208.8	345.1	1180.4	2996.1	5125.1	5958.6	6116.1	5346.3	3452.7	1617.5
25°	253.1	500.8	2035.2	4882.6	7648.7	9055.6	8990.1	7981.4	5601.1	2583.8
27.5°	316.8	729.1	3077.5	6937.3	10066.1	11306.7	11455.3	10207.7	7466.4	3799.6
30°	408.8	1010.5	4196.0	8583.1	12003.9	13345.4	13370.1	12080.0	9135.2	4866.7
32.5°	497.3	1276.0	5174.6	10174.1	13913.4	15384.1	15493.8	13906.4	10381.1	5978.1
35°	564.5	1449.4	6165.7	11572.1	15838.9	17865.2	17858.1	15973.4	11857.0	6970.9
37.5°	569.8	1622.8	7062.9	13002.0	18277.5	20546.3	20771.1	18693.4	13640.9	8199.1
40°	557.5	1817.5	8199.1	15231.9	22671.7	26152.8	26351.0	23731.8	17219.3	10301.5
42.5°	571.6	2155.5	10043.1	19350.0	29968.2	34967.7	35349.9	32596.3	23797.3	14591.2
45°	645.9	2790.8	13906.4	26239.5	40368.8	46463.7	46336.3	42370.4	31451.3	21121.5
47.5°	891.9	4346.4	19633.1	32944.9	47015.8	52443.5	52553.3	47706.0	35918.0	26142.1
50°	1371.5	6650.6	24445.0	36489.6	49873.9	55319.3	55216.7	49615.5	37615.2	28614.4
52.5°	1783.9	8317.6	26858.9	37733.7	50240.3	56740.4	56733.3	50118.1	37878.8	28826.8
55°	1886.5	8443.3	26878.3	37801.0	51061.4	58600.4	58834.0	51355.2	38220.4	27899.5
57.5°	1845.8	7475.2	25756.3	38190.3	52523.2	60039.1	60051.5	52553.3	39087.6	27331.4
58°	1810.4	7323.1	25529.8	38411.5	52774.5	60099.3	60069.2	52608.1	39793.7	27310.1
60°	1612.2	6358.6	24646.7	38976.1	52401.1	58864.0	58582.7	51410.0	39689.3	27092.5
62.5°	1267.1	4960.5	23777.8	38323.0	48398.0	52884.2	53001.0	45515.1	36181.7	25823.6
65°	1008.7	3696.9	21965.6	33615.6	39853.8	43428.6	43864.0	37011.7	30200.1	21866.5
67.5°	803.4	2672.3	18426.2	26763.3	31536.2	36245.4	36562.2	31074.3	23397.3	16753.8
70°	653.0	1806.9	12718.9	19573.0	26011.2	31306.1	31325.6	25814.7	17463.5	10977.5
72.5°	578.7	1251.2	7383.2	14274.5	21091.4	25510.3	24995.4	20948.0	13421.5	6501.9
75°	500.8	830.0	3620.8	8726.4	12787.9	12874.6	13071.1	9717.5	6709.0	3091.7
77.5°	412.3	589.3	1426.4	2383.8	3835.0	4909.2	5091.5	3858.0	2231.6	761.0
80°	283.2	279.6	384.0	730.9	1097.2	1375.1	1283.0	992.8	584.0	292.0
82.5°	122.1	132.7	173.4	208.8	169.9	164.6	157.5	100.9	77.9	60.2
85°	38.9	35.4	37.2	37.2	30.1	23.0	23.0	10.6	0.0	0.0
87.5°	19.5	15.9	15.9	14.2	8.8	3.5	1.8	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°
102.6	0°	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
95.6	2.5°	93.8	93.8	90.3	86.7	84.9	81.4	79.6	77.9	76.1	74.3
102.6	5°	99.1	97.3	92.0	86.7	81.4	76.1	72.6	69.0	65.5	63.7
113.3	7.5°	108.0	104.4	93.8	84.9	77.9	70.8	67.2	61.9	58.4	53.1
125.6	10°	118.6	111.5	97.3	86.7	76.1	67.2	61.9	56.6	51.3	44.2
143.3	12.5°	132.7	120.3	102.6	84.9	72.6	61.9	56.6	49.6	44.2	38.9
166.4	15°	145.1	129.2	104.4	84.9	69.0	56.6	49.6	42.5	37.2	30.1
208.8	17.5°	162.8	136.3	102.6	79.6	63.7	49.6	42.5	37.2	28.3	17.7
309.7	20°	192.9	141.6	99.1	74.3	54.9	40.7	31.9	24.8	12.4	3.5
465.4	22.5°	240.7	155.7	95.6	67.2	47.8	31.9	21.2	8.8	0.0	0.0
707.9	25°	332.7	180.5	95.6	63.7	42.5	23.0	7.1	0.0	0.0	0.0
1005.2	27.5°	442.4	214.1	95.6	54.9	33.6	12.4	0.0	0.0	0.0	0.0
1369.8	30°	553.9	251.3	95.6	47.8	26.5	1.8	0.0	0.0	0.0	0.0
1686.5	32.5°	660.1	283.2	97.3	40.7	17.7	0.0	0.0	0.0	0.0	0.0
2125.4	35°	768.1	288.5	95.6	35.4	10.6	0.0	0.0	0.0	0.0	0.0
2663.4	37.5°	906.1	277.8	90.3	31.9	5.3	0.0	0.0	0.0	0.0	0.0
3504.0	40°	1114.9	283.2	84.9	30.1	1.8	0.0	0.0	0.0	0.0	0.0
5003.0	42.5°	1500.7	306.2	77.9	30.1	0.0	0.0	0.0	0.0	0.0	0.0
7969.0	45°	2594.4	410.6	70.8	31.9	0.0	0.0	0.0	0.0	0.0	0.0
11963.2	47.5°	4291.5	738.0	69.0	31.9	0.0	0.0	0.0	0.0	0.0	0.0
14410.7	50°	5477.2	929.1	72.6	33.6	0.0	0.0	0.0	0.0	0.0	0.0
14716.9	52.5°	5468.4	1035.3	76.1	35.4	7.1	0.0	0.0	0.0	0.0	0.0
13564.8	55°	4861.4	1054.7	81.4	38.9	23.0	0.0	0.0	0.0	0.0	0.0
11657.1	57.5°	4063.3	962.7	93.8	47.8	42.5	0.0	0.0	0.0	0.0	0.0
11358.0	58°	3921.7	920.2	97.3	49.6	46.0	0.0	0.0	0.0	0.0	0.0
9852.0	60°	3213.8	750.4	123.9	61.9	61.9	0.0	0.0	0.0	0.0	0.0
8076.9	62.5°	2219.2	654.8	141.6	79.6	63.7	0.0	0.0	0.0	0.0	0.0
5955.1	65°	1569.7	591.1	154.0	84.9	51.3	0.0	0.0	0.0	0.0	0.0
4231.4	67.5°	1173.3	545.1	169.9	86.7	26.5	0.0	0.0	0.0	0.0	0.0
2654.6	70°	899.0	511.4	208.8	92.0	7.1	0.0	0.0	0.0	0.0	0.0
1582.1	72.5°	732.7	472.5	253.1	95.6	0.0	0.0	0.0	0.0	0.0	0.0
948.6	75°	607.0	426.5	244.2	104.4	0.0	0.0	0.0	0.0	0.0	0.0
506.1	77.5°	403.5	330.9	223.0	104.4	0.0	0.0	0.0	0.0	0.0	0.0
180.5	80°	141.6	131.0	173.4	92.0	0.0	0.0	0.0	0.0	0.0	0.0
37.2	82.5°	21.2	17.7	24.8	31.9	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
102.6	0°	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
72.6	2.5°	72.6	72.6	70.8	72.6	72.6	76.1	84.9	97.3	111.5	116.8
61.9	5°	60.2	58.4	56.6	56.6	56.6	61.9	69.0	83.2	99.1	106.2
51.3	7.5°	49.6	47.8	46.0	44.2	44.2	47.8	56.6	72.6	88.5	95.6
42.5	10°	40.7	37.2	35.4	33.6	33.6	37.2	46.0	61.9	79.6	86.7
35.4	12.5°	33.6	28.3	24.8	23.0	21.2	26.5	35.4	49.6	69.0	77.9
26.5	15°	23.0	17.7	12.4	10.6	8.8	14.2	23.0	38.9	58.4	69.0
14.2	17.5°	12.4	5.3	1.8	0.0	0.0	3.5	10.6	28.3	47.8	56.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	35.4	44.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.2	30.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	15.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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	5.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	14.2
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°
102.6	0°	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6	102.6
122.1	2.5°	125.6	123.9	120.3	116.8	116.8	116.8	122.1	127.4	132.7	132.7
109.7	5°	116.8	116.8	115.0	111.5	111.5	113.3	120.3	129.2	136.3	138.0
100.9	7.5°	108.0	111.5	108.0	106.2	108.0	109.7	116.8	127.4	138.0	141.6
93.8	10°	102.6	104.4	104.4	102.6	102.6	106.2	113.3	127.4	141.6	146.9
84.9	12.5°	95.6	99.1	97.3	97.3	97.3	100.9	109.7	125.6	145.1	152.2
76.1	15°	88.5	93.8	93.8	92.0	92.0	93.8	106.2	123.9	150.4	162.8
65.5	17.5°	81.4	86.7	88.5	84.9	84.9	88.5	100.9	123.9	154.0	175.2
53.1	20°	67.2	76.1	81.4	76.1	76.1	79.6	92.0	116.8	155.7	187.6
38.9	22.5°	53.1	61.9	69.0	67.2	67.2	69.0	84.9	111.5	157.5	208.8
23.0	25°	38.9	47.8	53.1	56.6	56.6	61.9	77.9	108.0	164.6	253.1
10.6	27.5°	23.0	33.6	40.7	44.2	46.0	53.1	72.6	104.4	177.0	316.8
0.0	30°	10.6	19.5	28.3	35.4	35.4	47.8	67.2	100.9	192.9	408.8
0.0	32.5°	0.0	8.8	14.2	24.8	26.5	38.9	61.9	97.3	215.9	497.3
0.0	35°	0.0	0.0	7.1	19.5	19.5	31.9	56.6	93.8	251.3	564.5
0.0	37.5°	0.0	0.0	0.0	14.2	15.9	28.3	54.9	92.0	258.4	569.8
0.0	40°	0.0	0.0	0.0	10.6	12.4	26.5	54.9	93.8	233.6	557.5
0.0	42.5°	0.0	0.0	0.0	7.1	8.8	26.5	54.9	97.3	210.6	571.6
0.0	45°	0.0	0.0	0.0	5.3	7.1	28.3	53.1	95.6	198.2	645.9
0.0	47.5°	0.0	0.0	0.0	7.1	10.6	28.3	51.3	93.8	200.0	891.9
0.0	50°	0.0	0.0	0.0	8.8	12.4	28.3	53.1	90.3	219.4	1371.5
0.0	52.5°	0.0	0.0	0.0	7.1	10.6	31.9	58.4	88.5	238.9	1783.9
0.0	55°	0.0	0.0	0.0	1.8	5.3	40.7	63.7	88.5	269.0	1886.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	46.0	72.6	93.8	318.5	1845.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	46.0	74.3	93.8	322.1	1810.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	46.0	81.4	104.4	346.9	1612.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	38.9	97.3	131.0	361.0	1267.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	31.9	115.0	143.3	371.6	1008.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	30.1	118.6	145.1	376.9	803.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	31.9	116.8	155.7	394.6	653.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	35.4	106.2	171.7	394.6	578.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	37.2	99.1	192.9	359.3	500.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	35.4	97.3	224.8	320.3	412.3
0.0	80°	3.5	5.3	5.3	3.5	3.5	30.1	95.6	228.3	272.5	283.2
1.8	82.5°	10.6	14.2	12.4	8.8	8.8	26.5	84.9	191.1	141.6	122.1
10.6	85°	19.5	23.0	23.0	19.5	19.5	24.8	53.1	69.0	47.8	38.9
19.5	87.5°	26.5	30.1	30.1	26.5	26.5	24.8	23.0	21.2	19.5	19.5
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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

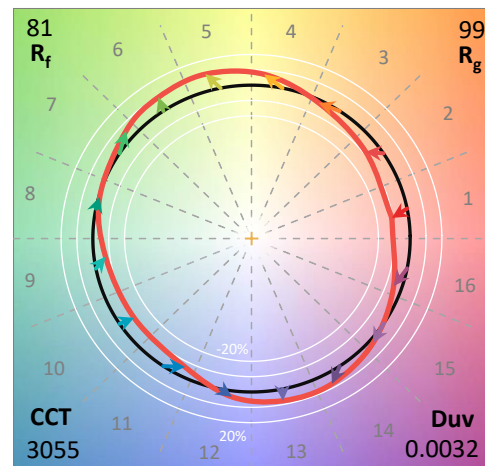
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

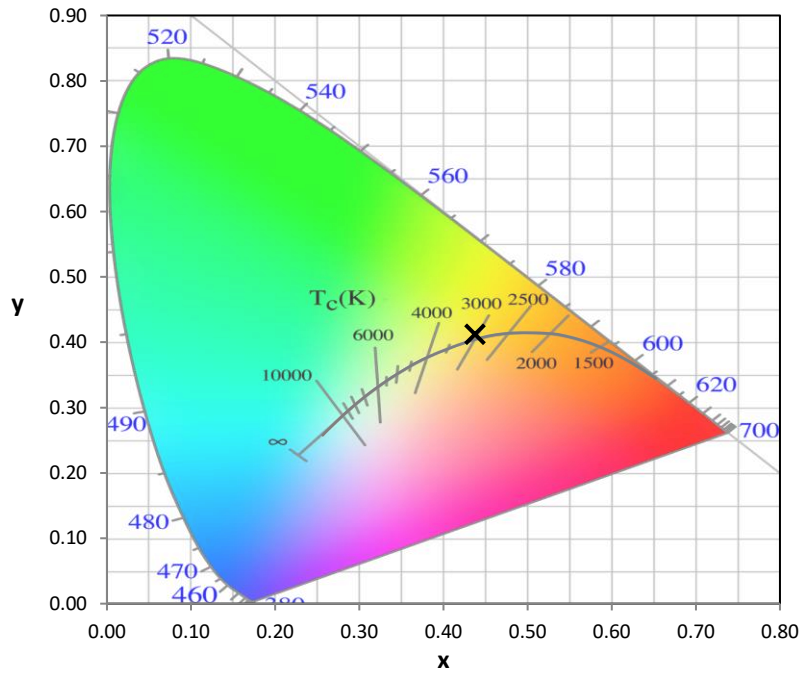
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

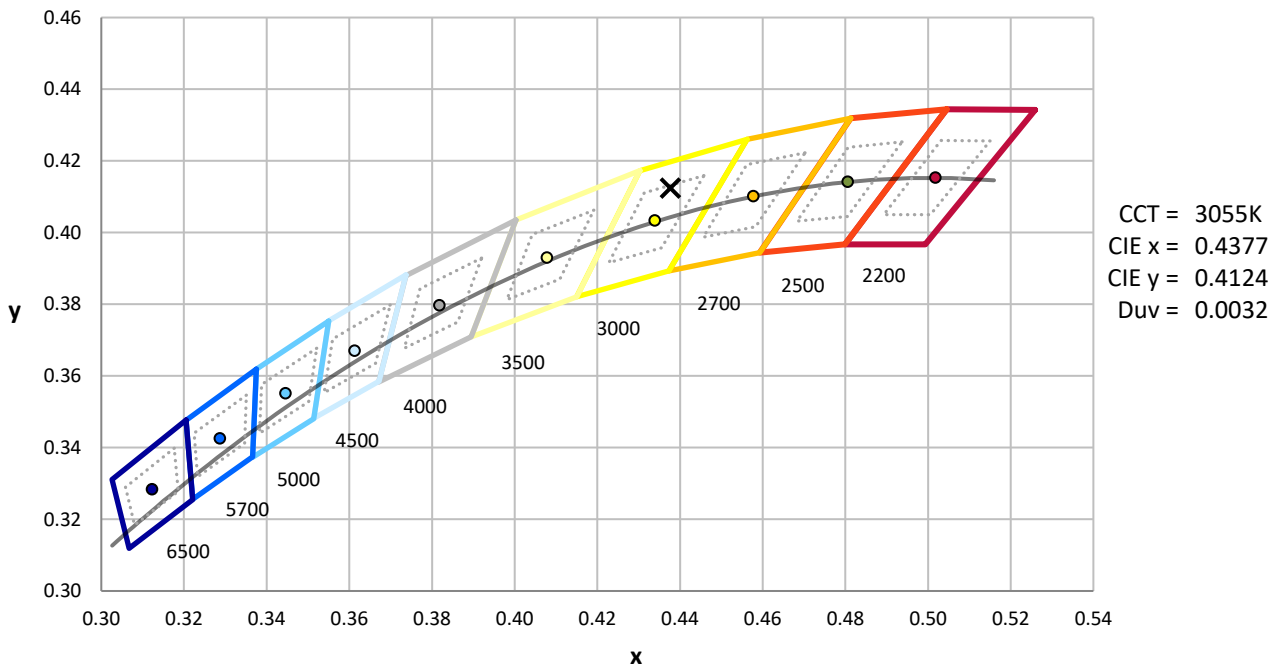
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-9

CIE 1931 Chromaticity Diagram



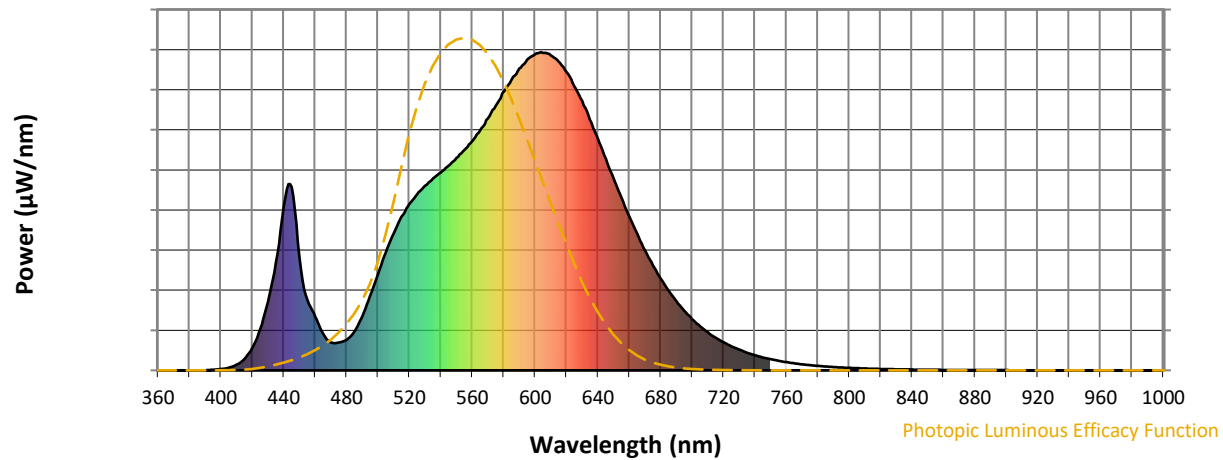
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

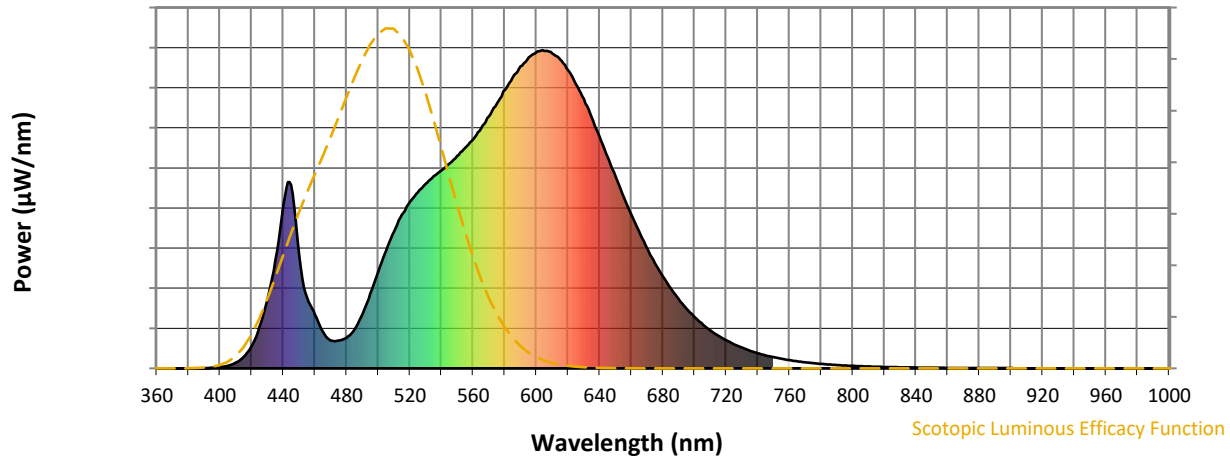


Photopic Lumens: NR

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



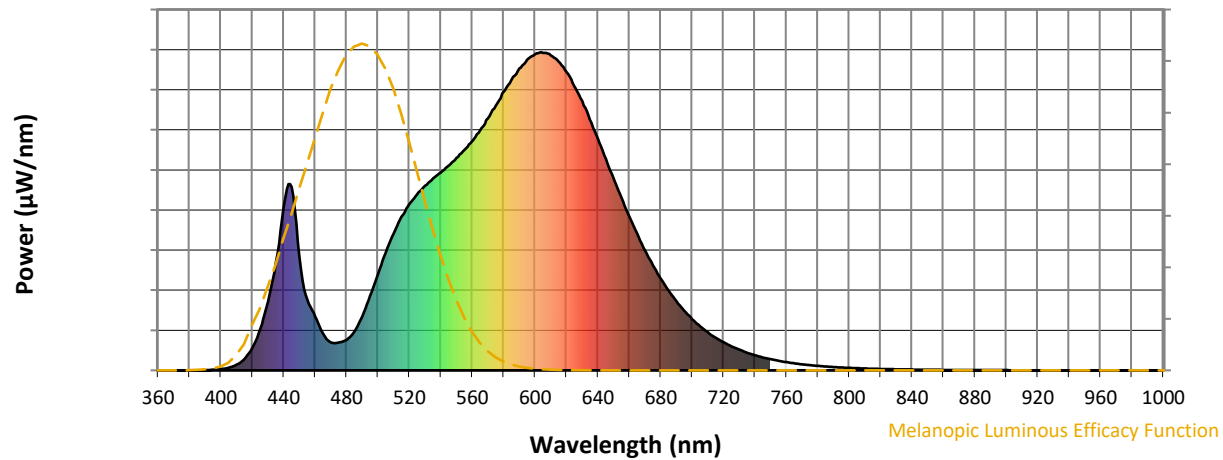
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.33

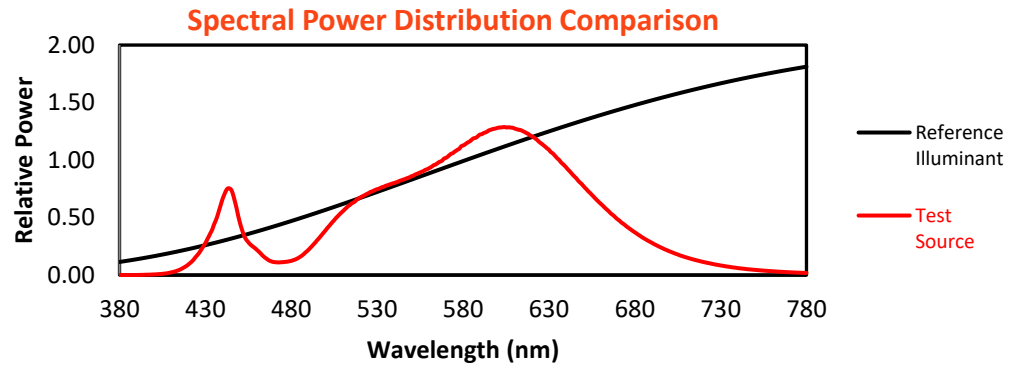
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

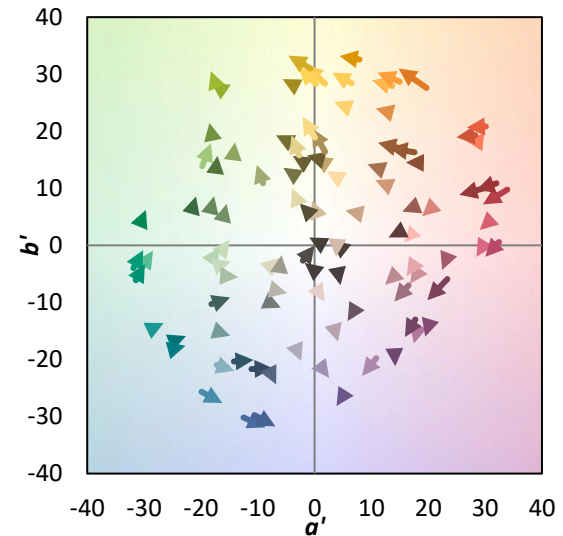
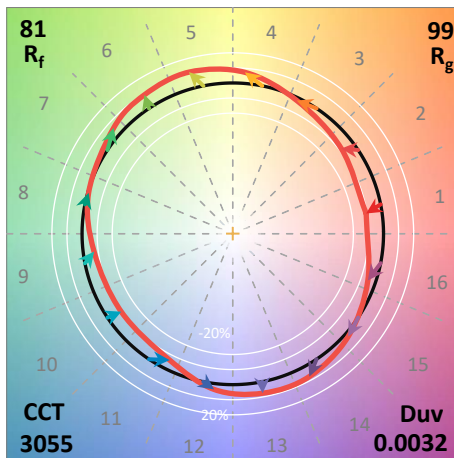
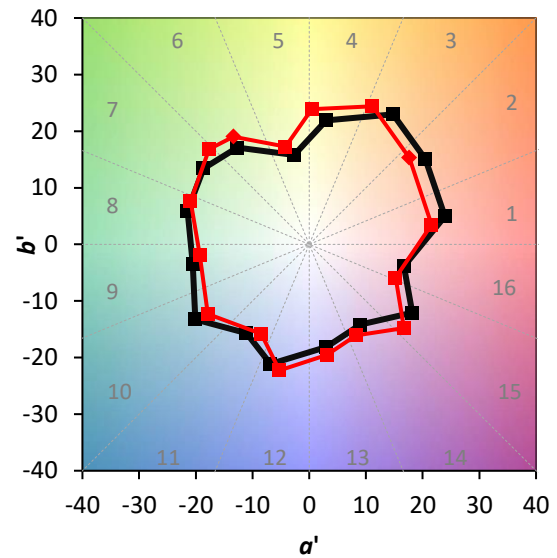
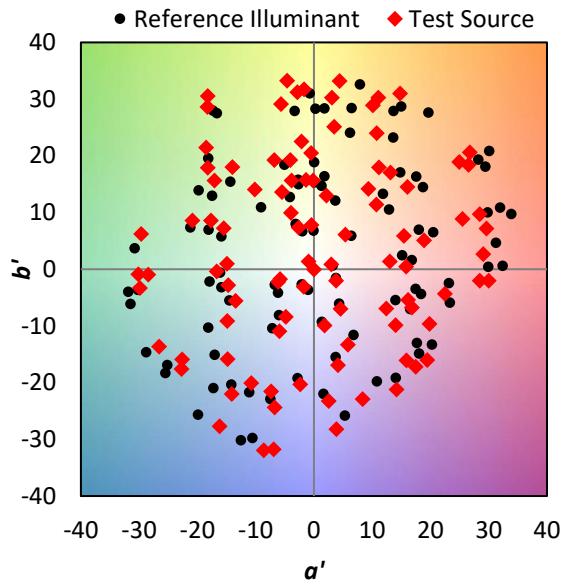
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_9 = 6.8$

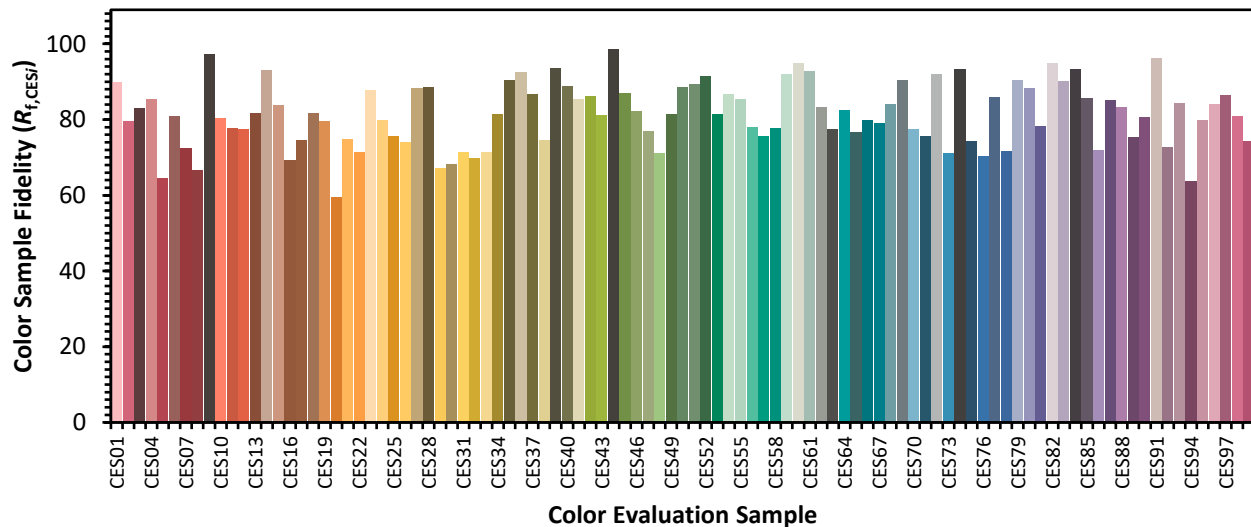


Color Vector Graphics

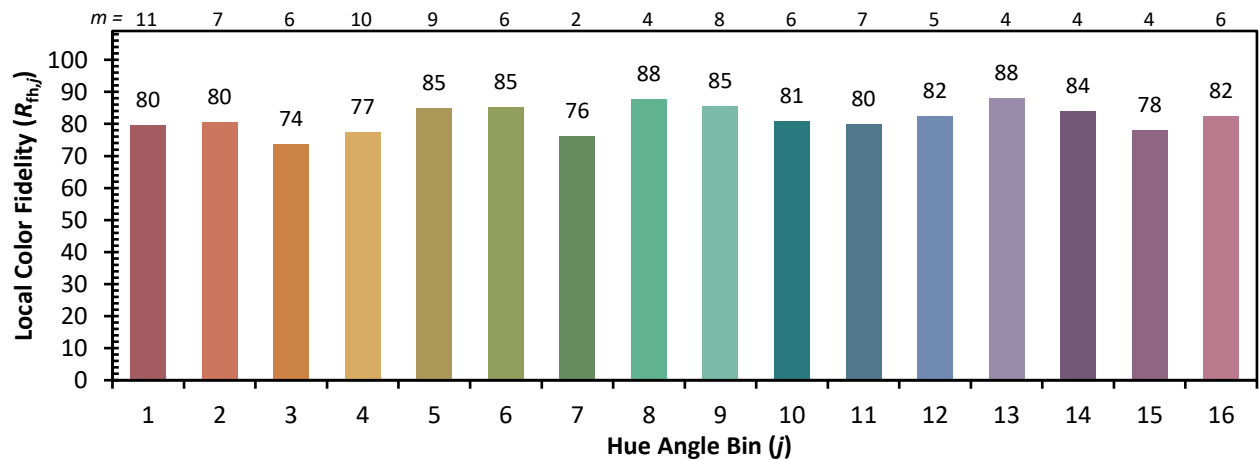
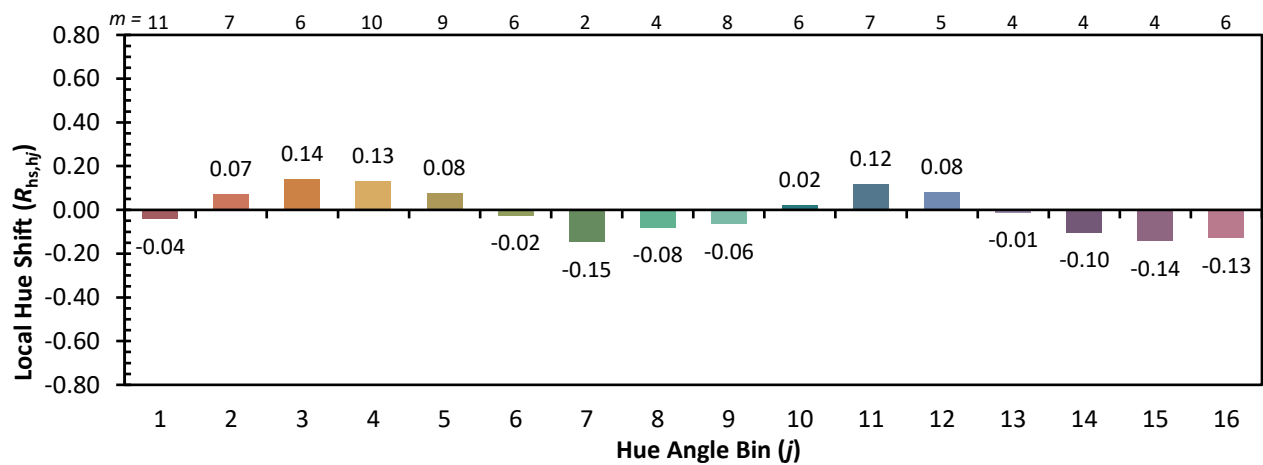
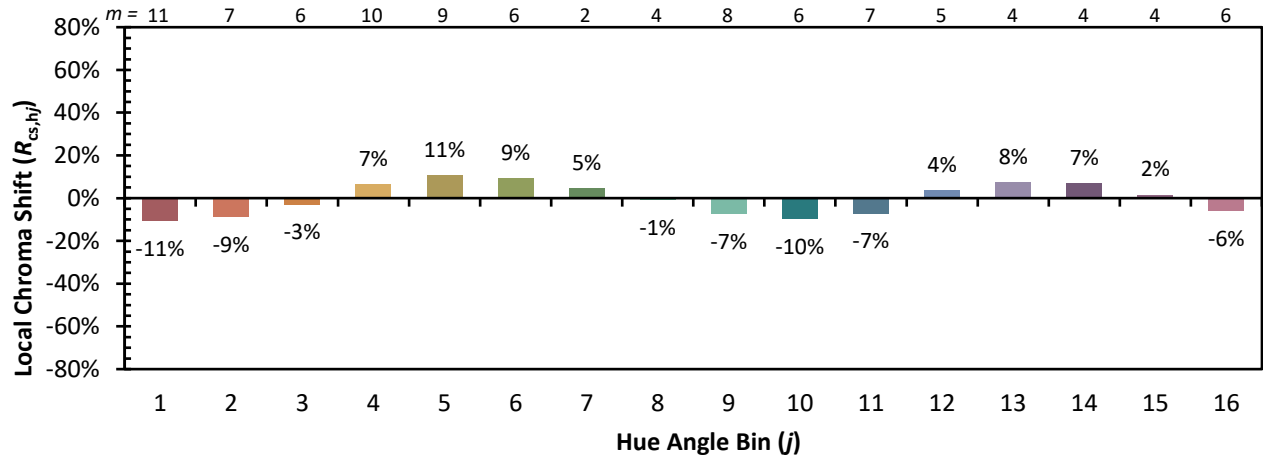


Individual Sample Fidelity Index ($R_{f,i}$)

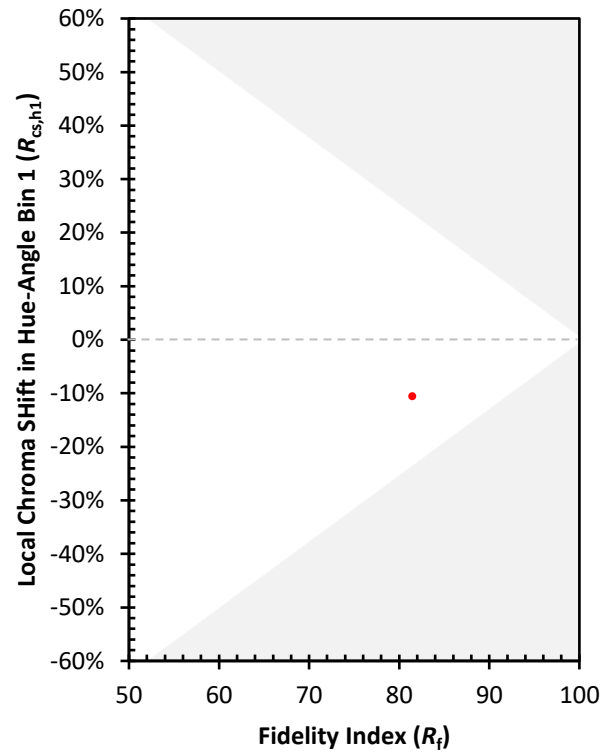
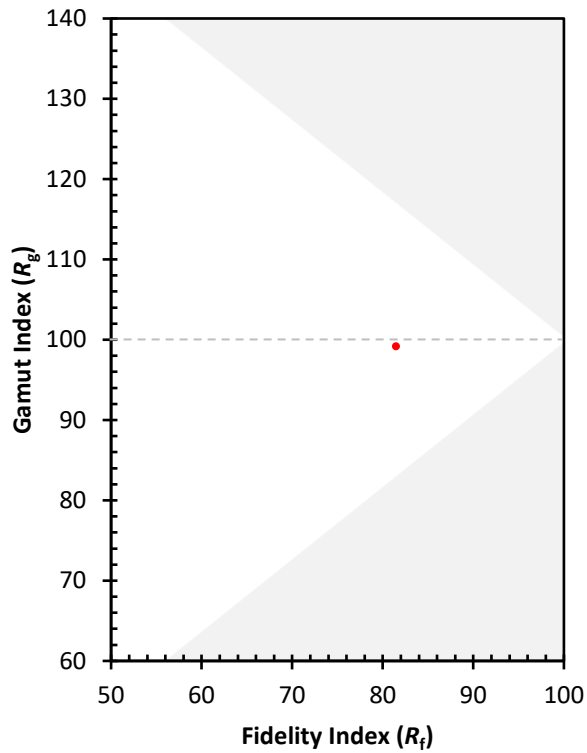
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)