

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: P1049914

Luminaire Tested: **GALN-SA6B-927-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049914
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 6xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15213.5 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 213.8
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

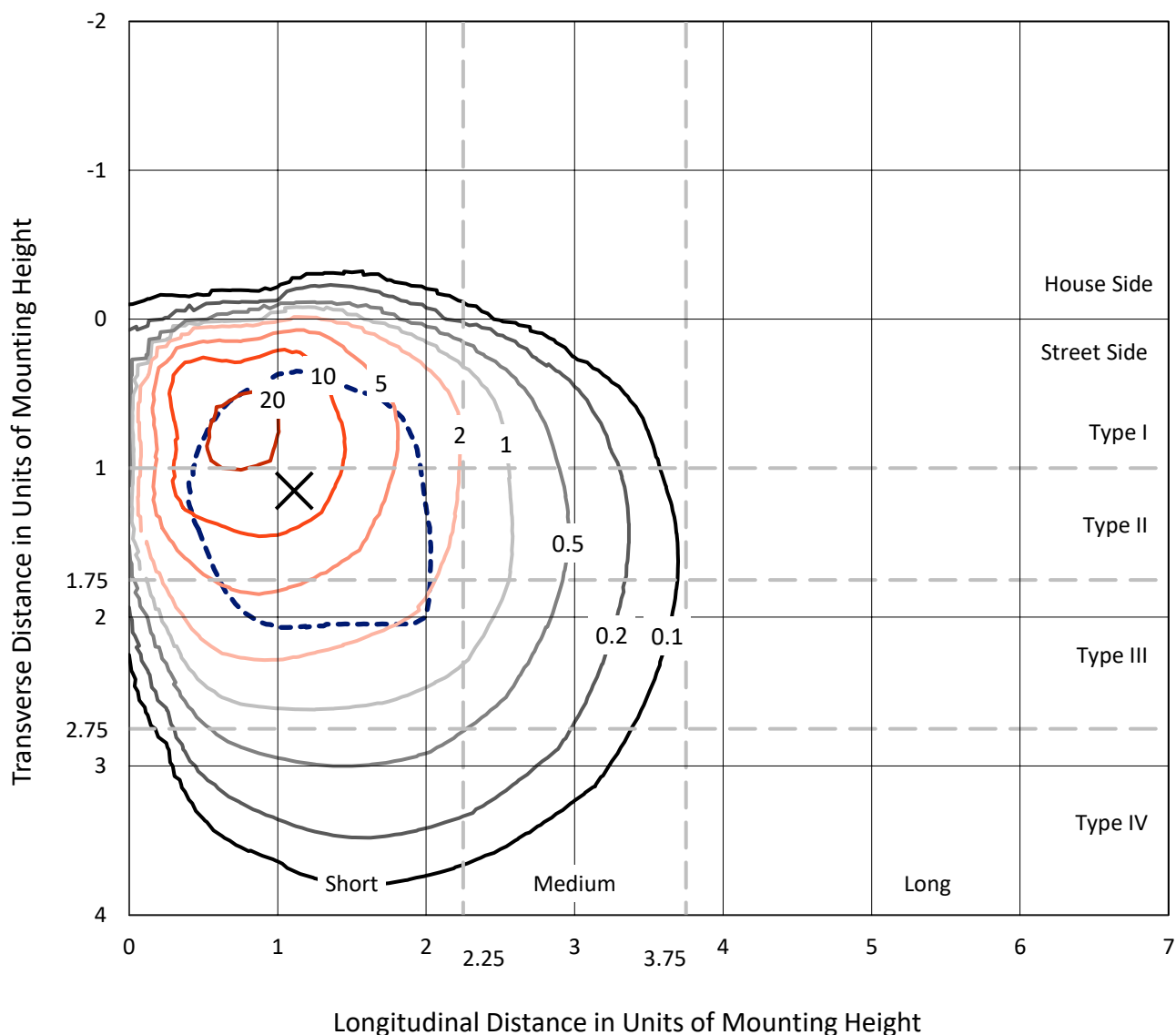
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

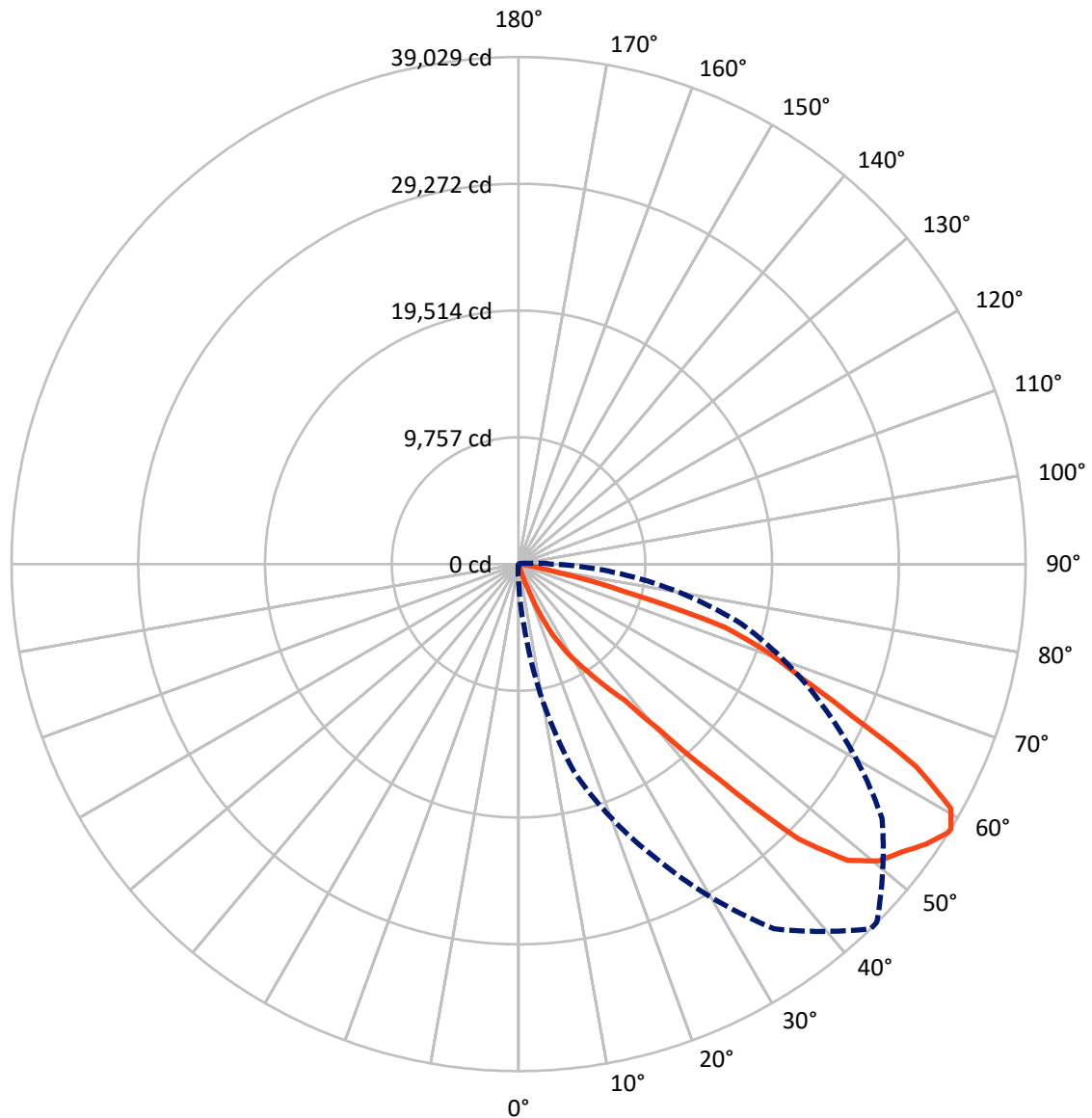


Based on 20 foot mounting height. Maximum calculated value = 26.5 fc

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	103.9	0.0	103.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15109.7	0.0	15109.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	15213.5	0.0	15213.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.0
10°-20°	33.4	0.2
20°-30°	360.4	2.4
30°-40°	1065.9	7.0
40°-50°	3176.8	20.9
50°-60°	5040.9	33.1
60°-70°	4204.7	27.6
70°-80°	1296.8	8.5
80°-90°	28.8	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°	15213.5	100.0
0°-180°	15213.5	100.0



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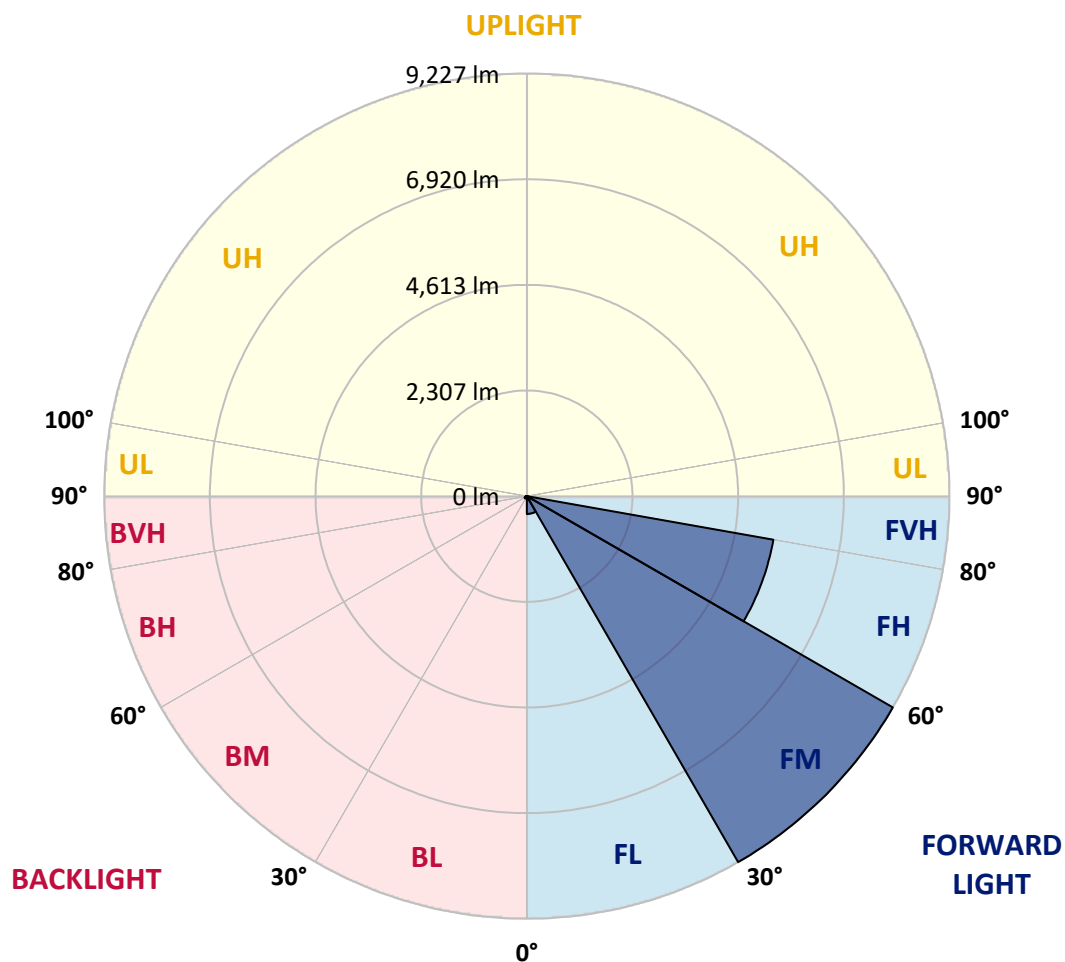
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	389.6	2.6			
FM	(30°-60°)	9226.7	60.6			
FH	(60°-80°)	5466.0	35.9			G3/7500
FVH	(80°-90°)	27.4	0.2			G1/100
BL	(0°-30°)	10.2	0.1	B0/110		
BM	(30°-60°)	56.9	0.4	B0/220		
BH	(60°-80°)	35.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
2.5°	86.2	86.2	82.7	78.1	73.6	69.0	67.8	65.5	64.4	63.2
5°	89.6	89.6	88.5	85.0	80.4	77.0	77.0	73.6	71.3	69.0
7.5°	91.9	93.1	95.4	94.2	91.9	88.5	88.5	86.2	82.7	77.0
10°	95.4	98.8	103.4	105.7	106.9	106.9	105.7	104.6	98.8	90.8
12.5°	98.8	105.7	117.2	128.7	135.6	144.8	143.7	141.4	126.4	109.2
15°	105.7	116.1	140.2	173.5	225.3	257.4	270.1	258.6	209.2	147.1
17.5°	113.8	131.0	203.4	363.2	595.3	705.6	772.3	718.3	475.8	279.3
20°	121.8	159.7	378.1	941.2	1544.6	1905.5	2005.5	1849.2	1187.2	532.1
22.5°	135.6	224.1	766.6	1945.7	3328.2	3869.5	3971.8	3471.9	2242.2	1050.4
25°	164.3	325.2	1321.6	3170.8	4967.1	5880.7	5838.2	5183.1	3637.4	1677.9
27.5°	205.7	473.5	1998.6	4505.1	6537.0	7342.6	7439.1	6628.9	4848.7	2467.5
30°	265.5	656.2	2724.9	5573.9	7795.4	8666.5	8682.6	7844.8	5932.5	3160.5
32.5°	322.9	828.6	3360.4	6607.1	9035.4	9990.5	10061.7	9030.8	6741.5	3882.2
35°	366.6	941.2	4004.0	7515.0	10285.8	11601.7	11597.1	10373.2	7700.0	4526.9
37.5°	370.1	1053.9	4586.7	8443.6	11869.5	13342.9	13488.8	12139.6	8858.5	5324.5
40°	362.0	1180.3	5324.5	9891.6	14723.1	16983.7	17112.4	15411.5	11182.3	6689.8
42.5°	371.2	1399.8	6522.0	12566.0	19461.5	22708.1	22956.4	21168.1	15454.0	9475.6
45°	419.5	1812.4	9030.8	17040.0	26215.7	30173.7	30090.9	27515.5	20424.6	13716.4
47.5°	579.2	2822.6	12749.8	21394.5	30532.3	34057.0	34128.3	30980.5	23325.3	16976.8
50°	890.7	4318.9	15874.7	23696.5	32388.3	35924.6	35857.9	32220.5	24427.4	18582.3
52.5°	1158.4	5401.5	17442.2	24504.4	32626.2	36847.4	36842.8	32546.9	24598.7	18720.2
55°	1225.1	5483.1	17454.9	24548.1	33159.5	38055.3	38207.0	33350.2	24820.5	18118.0
57.5°	1198.7	4854.5	16726.3	24800.9	34108.7	38989.6	38997.7	34128.3	25383.6	17749.1
58°	1175.7	4755.6	16579.2	24944.6	34271.9	39028.7	39009.2	34163.9	25842.2	17735.3
60°	1047.0	4129.3	16005.7	25311.2	34029.4	38226.5	38043.8	33385.9	25774.3	17593.9
62.5°	822.9	3221.4	15441.4	24887.1	31429.8	34343.2	34419.0	29557.7	23496.5	16769.9
65°	655.1	2400.8	14264.6	21830.1	25881.2	28202.7	28485.4	24035.5	19612.0	14200.2
67.5°	521.8	1735.4	11966.0	17380.2	20479.7	23537.9	23743.6	20179.8	15194.3	10880.0
70°	424.1	1173.4	8259.7	12710.8	16891.8	20330.3	20343.0	16764.2	11340.9	7128.8
72.5°	375.8	812.5	4794.7	9269.9	13696.8	16566.5	16232.1	13603.7	8716.0	4222.4
75°	325.2	539.0	2351.4	5667.0	8304.5	8360.8	8488.4	6310.6	4356.8	2007.7
77.5°	267.8	382.7	926.3	1548.0	2490.4	3188.0	3306.4	2505.4	1449.2	494.2
80°	183.9	181.6	249.4	474.6	712.5	893.0	833.2	644.7	379.3	189.6
82.5°	79.3	86.2	112.6	135.6	110.3	106.9	102.3	65.5	50.6	39.1
85°	25.3	23.0	24.1	24.1	19.5	14.9	14.9	6.9	0.0	0.0
87.5°	12.6	10.3	10.3	9.2	5.7	2.3	1.1	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°
66.7	0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
62.1	2.5°	60.9	60.9	58.6	56.3	55.2	52.9	51.7	50.6	49.4	48.3
66.7	5°	64.4	63.2	59.8	56.3	52.9	49.4	47.1	44.8	42.5	41.4
73.6	7.5°	70.1	67.8	60.9	55.2	50.6	46.0	43.7	40.2	37.9	34.5
81.6	10°	77.0	72.4	63.2	56.3	49.4	43.7	40.2	36.8	33.3	28.7
93.1	12.5°	86.2	78.1	66.7	55.2	47.1	40.2	36.8	32.2	28.7	25.3
108.0	15°	94.2	83.9	67.8	55.2	44.8	36.8	32.2	27.6	24.1	19.5
135.6	17.5°	105.7	88.5	66.7	51.7	41.4	32.2	27.6	24.1	18.4	11.5
201.1	20°	125.3	91.9	64.4	48.3	35.6	26.4	20.7	16.1	8.0	2.3
302.3	22.5°	156.3	101.1	62.1	43.7	31.0	20.7	13.8	5.7	0.0	0.0
459.7	25°	216.1	117.2	62.1	41.4	27.6	14.9	4.6	0.0	0.0	0.0
652.8	27.5°	287.3	139.1	62.1	35.6	21.8	8.0	0.0	0.0	0.0	0.0
889.5	30°	359.7	163.2	62.1	31.0	17.2	1.1	0.0	0.0	0.0	0.0
1095.2	32.5°	428.7	183.9	63.2	26.4	11.5	0.0	0.0	0.0	0.0	0.0
1380.3	35°	498.8	187.3	62.1	23.0	6.9	0.0	0.0	0.0	0.0	0.0
1729.6	37.5°	588.4	180.4	58.6	20.7	3.4	0.0	0.0	0.0	0.0	0.0
2275.5	40°	724.0	183.9	55.2	19.5	1.1	0.0	0.0	0.0	0.0	0.0
3248.9	42.5°	974.6	198.8	50.6	19.5	0.0	0.0	0.0	0.0	0.0	0.0
5175.1	45°	1684.8	266.6	46.0	20.7	0.0	0.0	0.0	0.0	0.0	0.0
7769.0	47.5°	2786.9	479.2	44.8	20.7	0.0	0.0	0.0	0.0	0.0	0.0
9358.4	50°	3556.9	603.4	47.1	21.8	0.0	0.0	0.0	0.0	0.0	0.0
9557.2	52.5°	3551.2	672.3	49.4	23.0	4.6	0.0	0.0	0.0	0.0	0.0
8809.0	55°	3157.0	685.0	52.9	25.3	14.9	0.0	0.0	0.0	0.0	0.0
7570.1	57.5°	2638.7	625.2	60.9	31.0	27.6	0.0	0.0	0.0	0.0	0.0
7375.9	58°	2546.7	597.6	63.2	32.2	29.9	0.0	0.0	0.0	0.0	0.0
6397.9	60°	2087.0	487.3	80.4	40.2	40.2	0.0	0.0	0.0	0.0	0.0
5245.2	62.5°	1441.2	425.2	91.9	51.7	41.4	0.0	0.0	0.0	0.0	0.0
3867.2	65°	1019.4	383.9	100.0	55.2	33.3	0.0	0.0	0.0	0.0	0.0
2747.9	67.5°	762.0	354.0	110.3	56.3	17.2	0.0	0.0	0.0	0.0	0.0
1723.9	70°	583.8	332.1	135.6	59.8	4.6	0.0	0.0	0.0	0.0	0.0
1027.4	72.5°	475.8	306.9	164.3	62.1	0.0	0.0	0.0	0.0	0.0	0.0
616.0	75°	394.2	277.0	158.6	67.8	0.0	0.0	0.0	0.0	0.0	0.0
328.7	77.5°	262.0	214.9	144.8	67.8	0.0	0.0	0.0	0.0	0.0	0.0
117.2	80°	91.9	85.0	112.6	59.8	0.0	0.0	0.0	0.0	0.0	0.0
24.1	82.5°	13.8	11.5	16.1	20.7	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°
66.7	0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
47.1	2.5°	47.1	47.1	46.0	47.1	47.1	49.4	55.2	63.2	72.4	75.9
40.2	5°	39.1	37.9	36.8	36.8	36.8	40.2	44.8	54.0	64.4	69.0
33.3	7.5°	32.2	31.0	29.9	28.7	28.7	31.0	36.8	47.1	57.5	62.1
27.6	10°	26.4	24.1	23.0	21.8	21.8	24.1	29.9	40.2	51.7	56.3
23.0	12.5°	21.8	18.4	16.1	14.9	13.8	17.2	23.0	32.2	44.8	50.6
17.2	15°	14.9	11.5	8.0	6.9	5.7	9.2	14.9	25.3	37.9	44.8
9.2	17.5°	8.0	3.4	1.1	0.0	0.0	2.3	6.9	18.4	31.0	36.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	23.0	28.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	13.8	19.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	10.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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	3.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.2
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°
66.7	0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
79.3	2.5°	81.6	80.4	78.1	75.9	75.9	75.9	79.3	82.7	86.2	86.2
71.3	5°	75.9	75.9	74.7	72.4	72.4	73.6	78.1	83.9	88.5	89.6
65.5	7.5°	70.1	72.4	70.1	69.0	70.1	71.3	75.9	82.7	89.6	91.9
60.9	10°	66.7	67.8	67.8	66.7	66.7	69.0	73.6	82.7	91.9	95.4
55.2	12.5°	62.1	64.4	63.2	63.2	63.2	65.5	71.3	81.6	94.2	98.8
49.4	15°	57.5	60.9	60.9	59.8	59.8	60.9	69.0	80.4	97.7	105.7
42.5	17.5°	52.9	56.3	57.5	55.2	55.2	57.5	65.5	80.4	100.0	113.8
34.5	20°	43.7	49.4	52.9	49.4	49.4	51.7	59.8	75.9	101.1	121.8
25.3	22.5°	34.5	40.2	44.8	43.7	43.7	44.8	55.2	72.4	102.3	135.6
14.9	25°	25.3	31.0	34.5	36.8	36.8	40.2	50.6	70.1	106.9	164.3
6.9	27.5°	14.9	21.8	26.4	28.7	29.9	34.5	47.1	67.8	114.9	205.7
0.0	30°	6.9	12.6	18.4	23.0	23.0	31.0	43.7	65.5	125.3	265.5
0.0	32.5°	0.0	5.7	9.2	16.1	17.2	25.3	40.2	63.2	140.2	322.9
0.0	35°	0.0	0.0	4.6	12.6	12.6	20.7	36.8	60.9	163.2	366.6
0.0	37.5°	0.0	0.0	0.0	9.2	10.3	18.4	35.6	59.8	167.8	370.1
0.0	40°	0.0	0.0	0.0	6.9	8.0	17.2	35.6	60.9	151.7	362.0
0.0	42.5°	0.0	0.0	0.0	4.6	5.7	17.2	35.6	63.2	136.8	371.2
0.0	45°	0.0	0.0	0.0	3.4	4.6	18.4	34.5	62.1	128.7	419.5
0.0	47.5°	0.0	0.0	0.0	4.6	6.9	18.4	33.3	60.9	129.9	579.2
0.0	50°	0.0	0.0	0.0	5.7	8.0	18.4	34.5	58.6	142.5	890.7
0.0	52.5°	0.0	0.0	0.0	4.6	6.9	20.7	37.9	57.5	155.1	1158.4
0.0	55°	0.0	0.0	0.0	1.1	3.4	26.4	41.4	57.5	174.7	1225.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	29.9	47.1	60.9	206.9	1198.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	29.9	48.3	60.9	209.2	1175.7
0.0	60°	0.0	0.0	0.0	0.0	0.0	29.9	52.9	67.8	225.3	1047.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	25.3	63.2	85.0	234.4	822.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	20.7	74.7	93.1	241.3	655.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	19.5	77.0	94.2	244.8	521.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	20.7	75.9	101.1	256.3	424.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	23.0	69.0	111.5	256.3	375.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	24.1	64.4	125.3	233.3	325.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	23.0	63.2	146.0	208.0	267.8
0.0	80°	2.3	3.4	3.4	2.3	2.3	19.5	62.1	148.3	177.0	183.9
1.1	82.5°	6.9	9.2	8.0	5.7	5.7	17.2	55.2	124.1	91.9	79.3
6.9	85°	12.6	14.9	14.9	12.6	12.6	16.1	34.5	44.8	31.0	25.3
12.6	87.5°	17.2	19.5	19.5	17.2	17.2	16.1	14.9	13.8	12.6	12.6
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: SP1-2407-184-13

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-927-U-5WQ

Data in this report applies to families of products including GSS-SB1A-927-U-5WQ

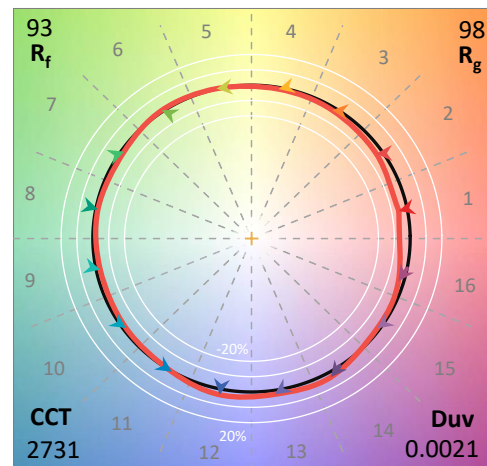
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-13
 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-927-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 2700K CCT 26 LEDS

Spectral Parameters

CCT (K): 2731
 CIE u' : 0.2605
 CIE v' : 0.5298
 Duv: 0.0021
 CIE x: 0.4610
 CIE y: 0.4166
 CIE z: 0.1224
 Peak Wavelength (nm): 622
 Dominant Wavelength (nm): 583
 Purity: 63.43685
 R_f: 92.6
 R_g: 98

CRI (Ra): 91.8
 R1: 91.4
 R2: 95.1
 R3: 97.6
 R4: 92.3
 R5: 91.1
 R6: 94.7
 R7: 92.3
 R8: 80.0
 R9: 54.7
 R10: 87.7
 R11: 92.9
 R12: 84.0
 R13: 92.2
 R14: 97.8
 R15: 86.8



Test Conditions

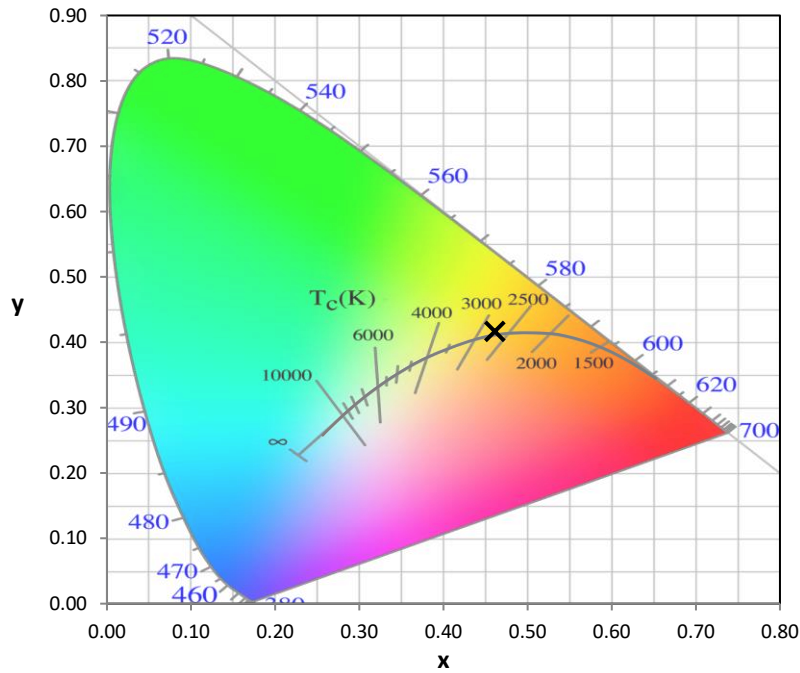
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

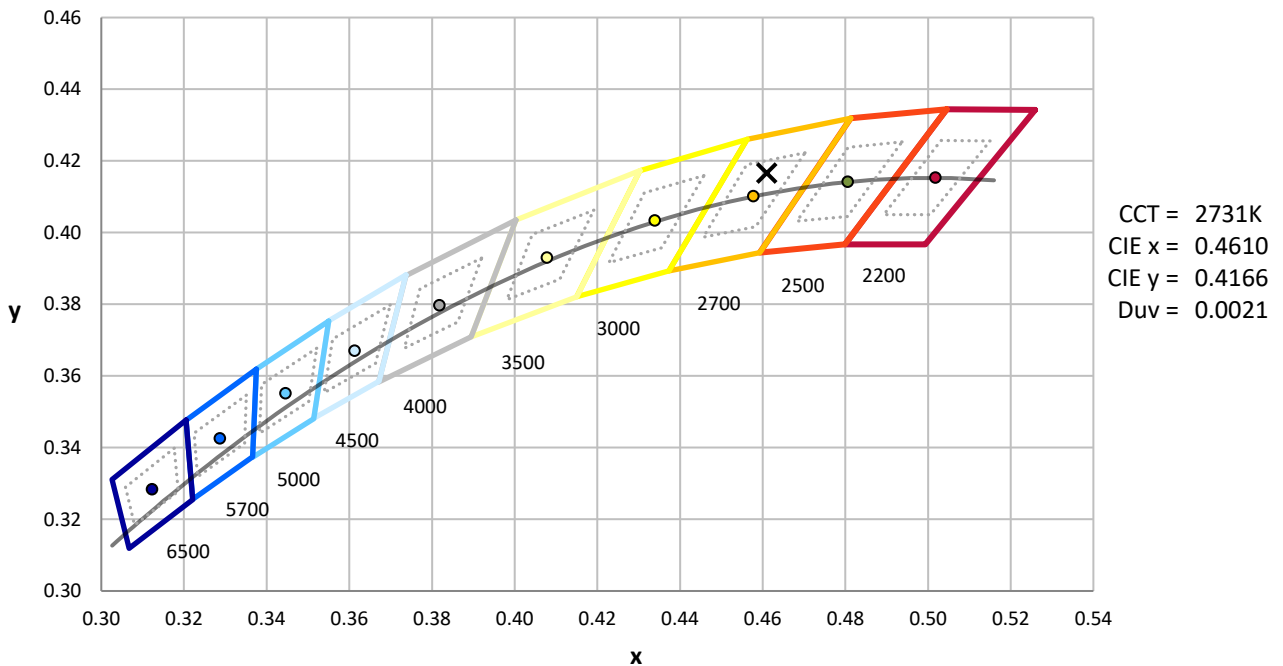
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-13

CIE 1931 Chromaticity Diagram



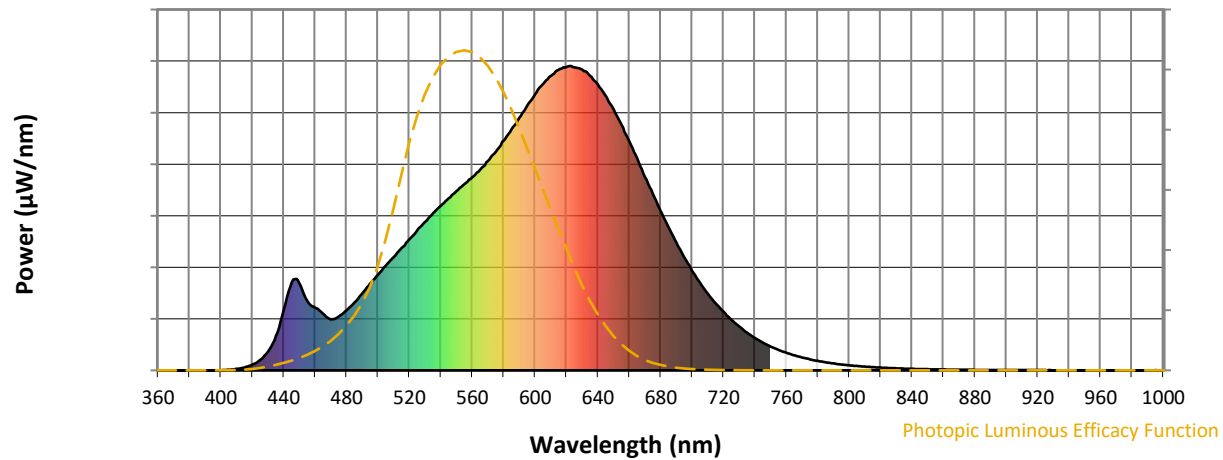
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

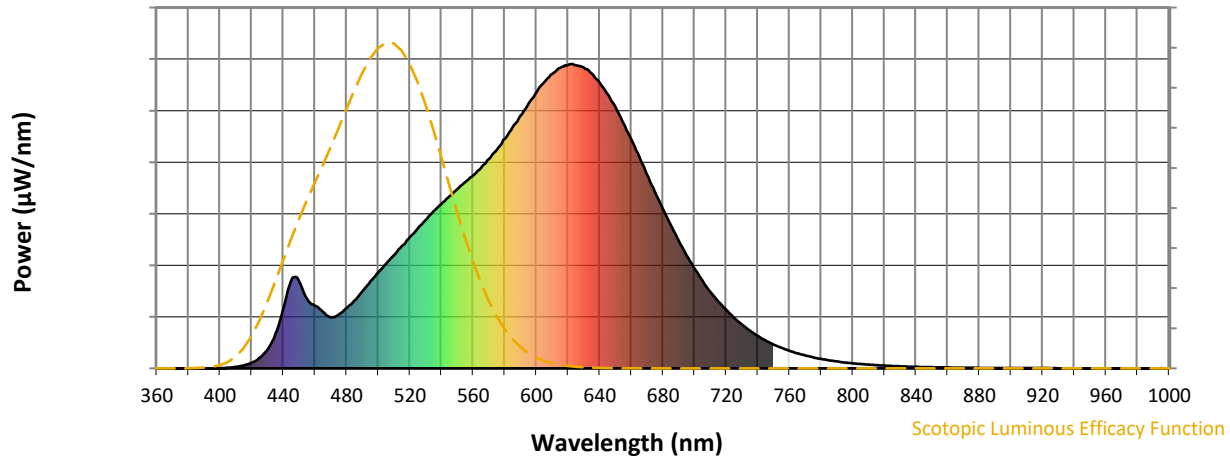


Photopic Lumens: NR

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Scotopic Flux vs. Wavelength



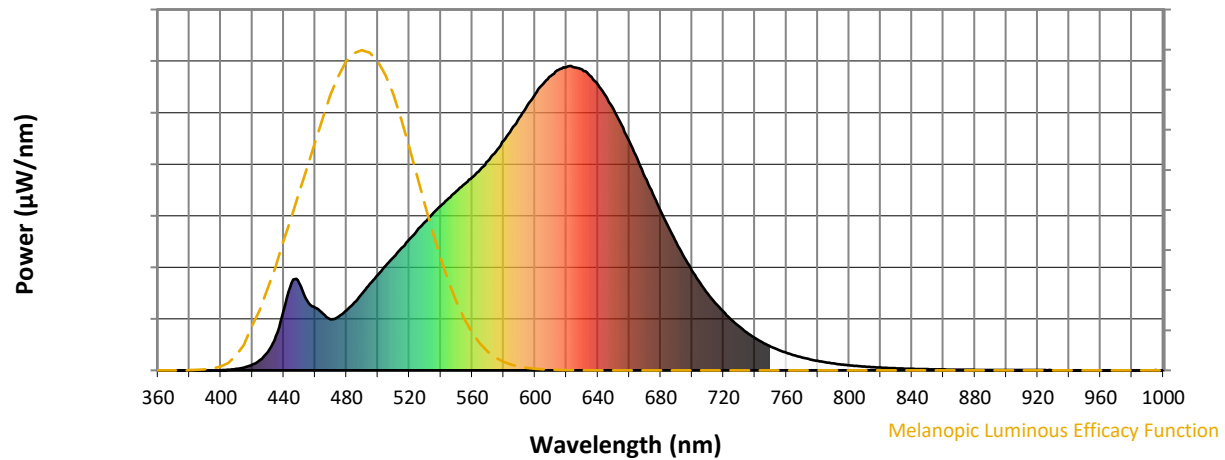
Scotopic Lumens: NR

S/P: 1.27

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	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.38

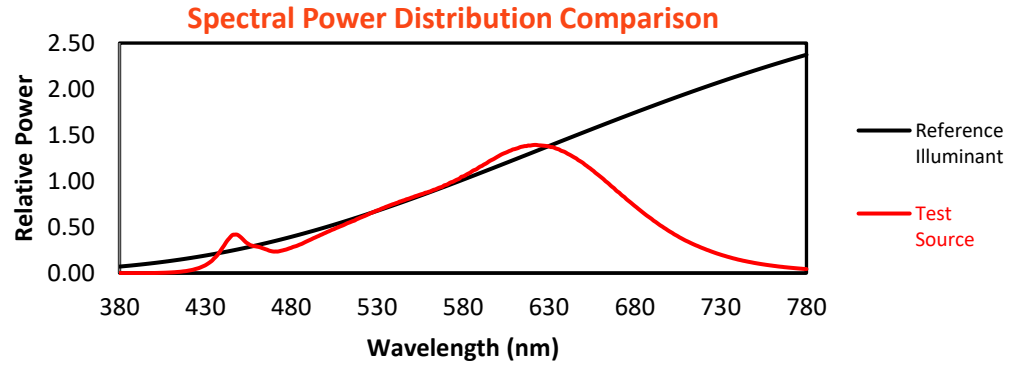
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	253	NR	620	997	NR	750	78	NR	880	2	NR
365	0	NR	495	285	NR	625	996	NR	755	67	NR	885	1	NR
370	0	NR	500	314	NR	630	989	NR	760	58	NR	890	1	NR
375	0	NR	505	343	NR	635	969	NR	765	50	NR	895	1	NR
380	0	NR	510	372	NR	640	939	NR	770	42	NR	900	1	NR
385	0	NR	515	401	NR	645	901	NR	775	36	NR	905	1	NR
390	0	NR	520	431	NR	650	858	NR	780	31	NR	910	1	NR
395	0	NR	525	459	NR	655	806	NR	785	26	NR	915	1	NR
400	0	NR	530	488	NR	660	752	NR	790	23	NR	920	1	NR
405	2	NR	535	516	NR	665	696	NR	795	19	NR	925	1	NR
410	5	NR	540	540	NR	670	636	NR	800	17	NR	930	0	NR
415	10	NR	545	566	NR	675	579	NR	805	14	NR	935	0	NR
420	19	NR	550	589	NR	680	524	NR	810	12	NR	940	0	NR
425	34	NR	555	612	NR	685	470	NR	815	11	NR	945	0	NR
430	61	NR	560	634	NR	690	421	NR	820	9	NR	950	0	NR
435	113	NR	565	660	NR	695	371	NR	825	8	NR	955	0	NR
440	198	NR	570	688	NR	700	327	NR	830	7	NR	960	0	NR
445	288	NR	575	719	NR	705	288	NR	835	6	NR	965	0	NR
450	286	NR	580	754	NR	710	251	NR	840	5	NR	970	0	NR
455	228	NR	585	791	NR	715	220	NR	845	4	NR	975	0	NR
460	207	NR	590	831	NR	720	192	NR	850	4	NR	980	0	NR
465	186	NR	595	870	NR	725	166	NR	855	3	NR	985	0	NR
470	168	NR	600	907	NR	730	144	NR	860	3	NR	990	1	NR
475	177	NR	605	940	NR	735	124	NR	865	2	NR	995	1	NR
480	198	NR	610	967	NR	740	106	NR	870	2	NR	1000	0	NR
485	223	NR	615	988	NR	745	91	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-13

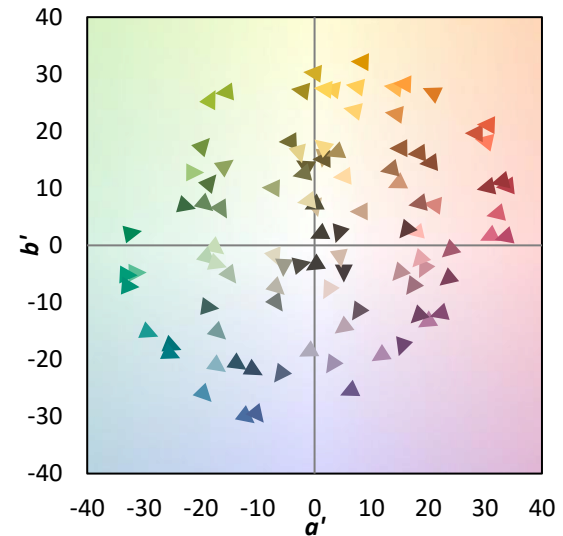
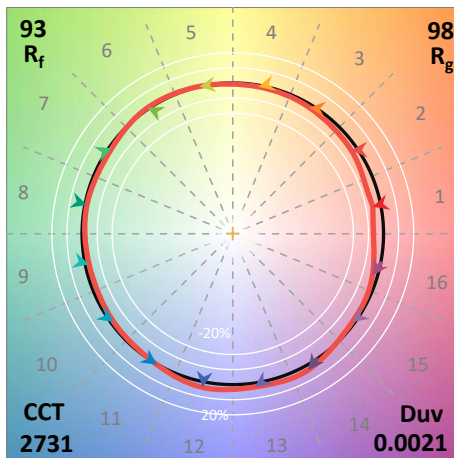
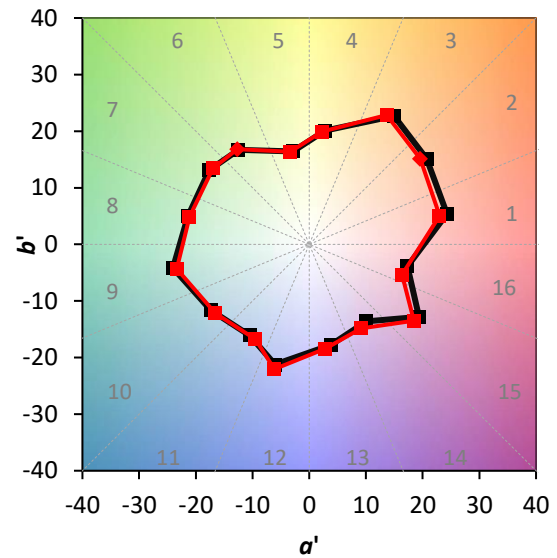
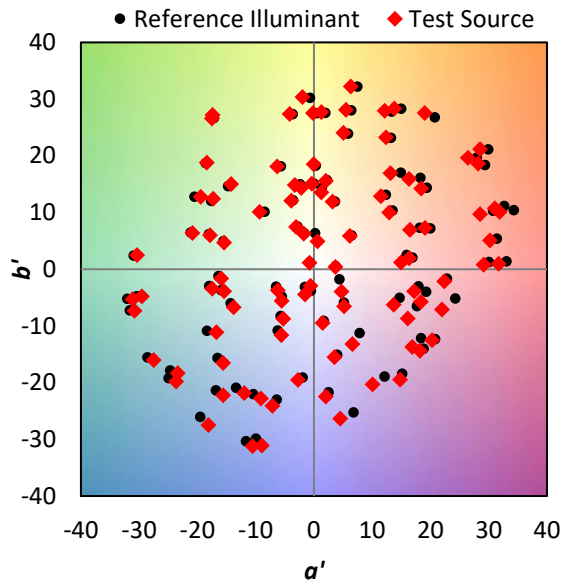
TM-30-18

Summary

$R_f = 92.6$
 $R_g = 98$
 $CIE R_a = 91.8$
 $R_9 = 54.7$

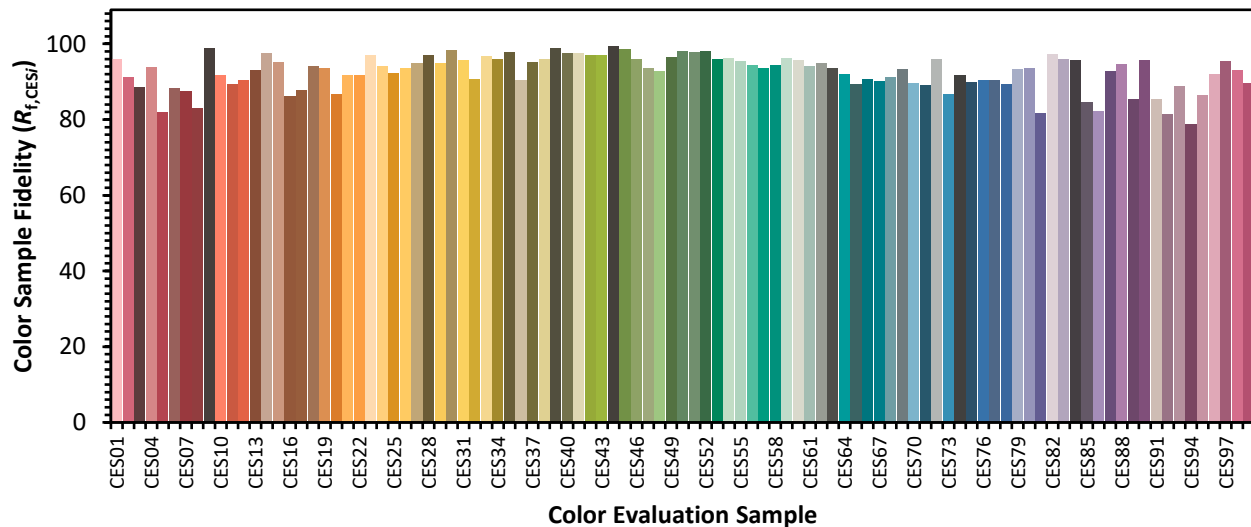


Color Vector Graphics

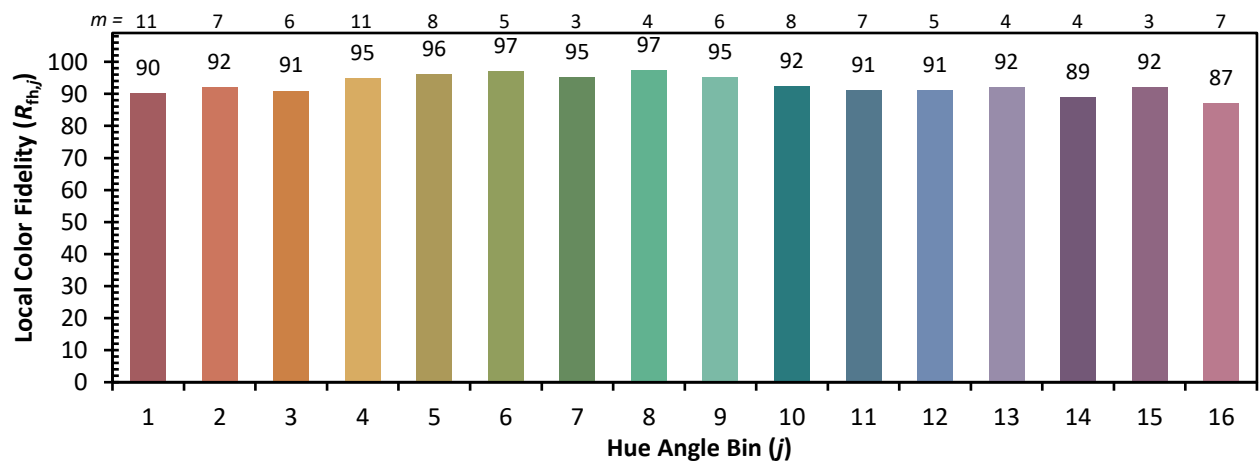
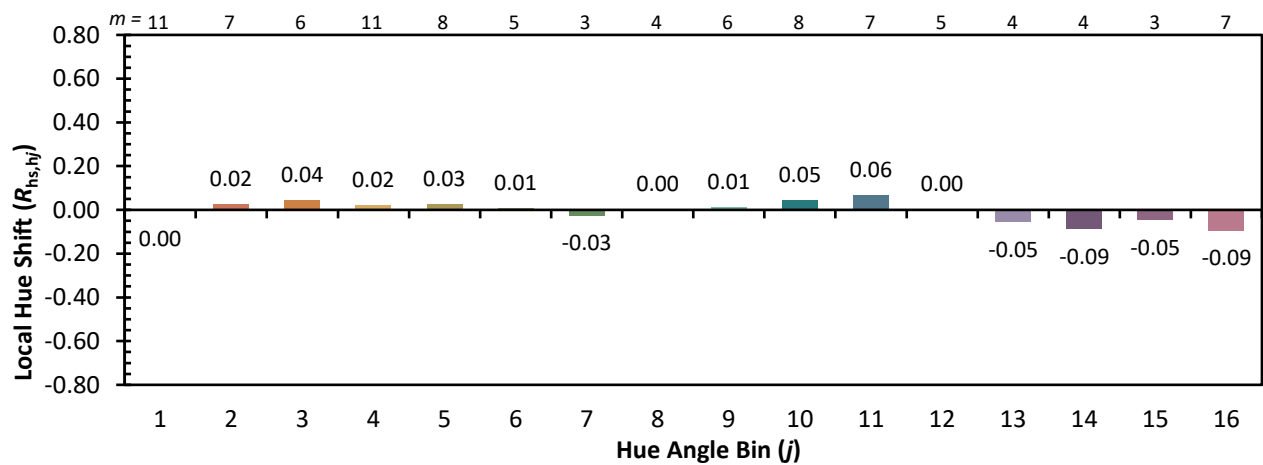
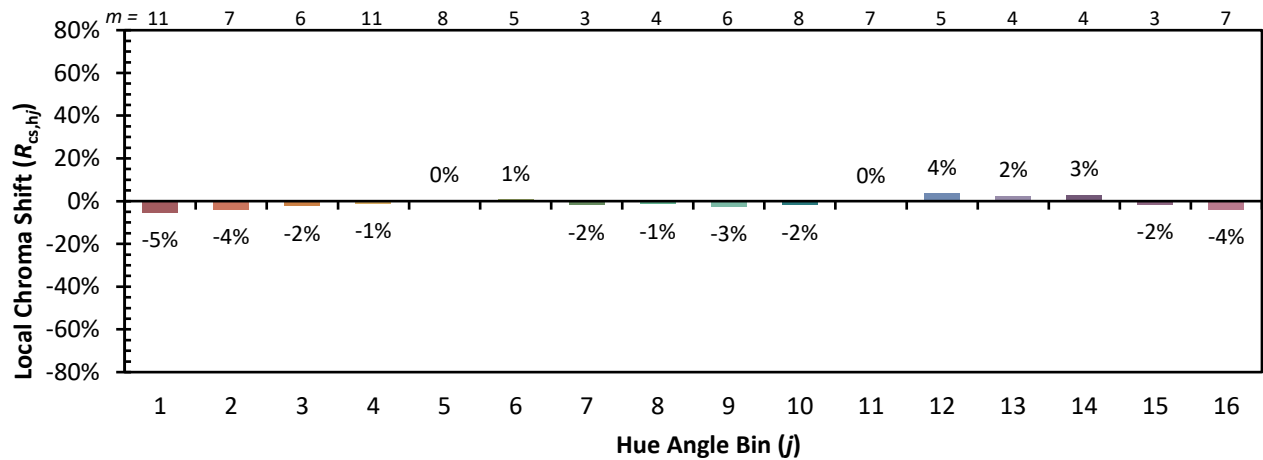


Individual Sample Fidelity Index ($R_{f,i}$)

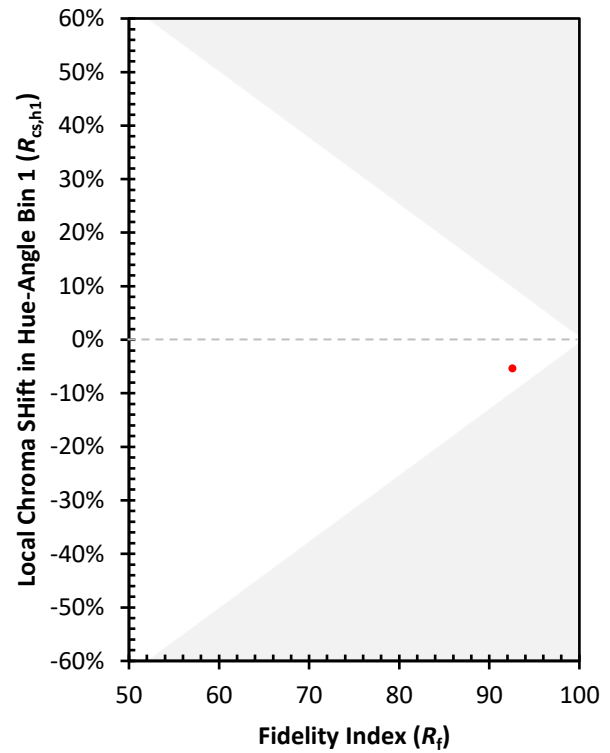
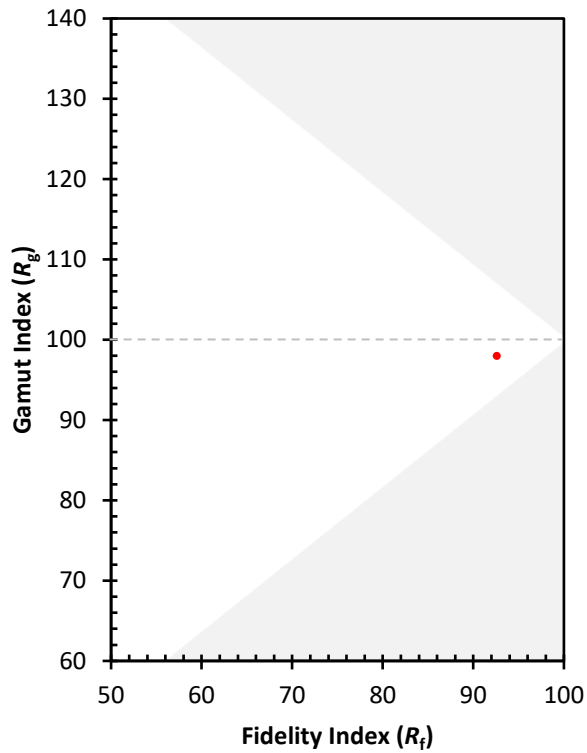
CES01 = 86	CES26 = 94	CES51 = 98	CES76 = 90
CES02 = 64	CES27 = 95	CES52 = 98	CES77 = 90
CES03 = 32	CES28 = 97	CES53 = 96	CES78 = 89
CES04 = 71	CES29 = 95	CES54 = 96	CES79 = 93
CES05 = 51	CES30 = 98	CES55 = 95	CES80 = 94
CES06 = 52	CES31 = 96	CES56 = 94	CES81 = 82
CES07 = 44	CES32 = 91	CES57 = 94	CES82 = 97
CES08 = 43	CES33 = 97	CES58 = 94	CES83 = 96
CES09 = 29	CES34 = 96	CES59 = 96	CES84 = 96
CES10 = 77	CES35 = 98	CES60 = 96	CES85 = 85
CES11 = 59	CES36 = 90	CES61 = 94	CES86 = 82
CES12 = 66	CES37 = 95	CES62 = 95	CES87 = 93
CES13 = 44	CES38 = 96	CES63 = 94	CES88 = 95
CES14 = 74	CES39 = 99	CES64 = 92	CES89 = 85
CES15 = 72	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 48	CES41 = 98	CES66 = 91	CES91 = 85
CES17 = 50	CES42 = 97	CES67 = 90	CES92 = 82
CES18 = 57	CES43 = 97	CES68 = 91	CES93 = 89
CES19 = 72	CES44 = 99	CES69 = 93	CES94 = 79
CES20 = 68	CES45 = 99	CES70 = 90	CES95 = 87
CES21 = 87	CES46 = 96	CES71 = 89	CES96 = 92
CES22 = 79	CES47 = 94	CES72 = 96	CES97 = 96
CES23 = 92	CES48 = 93	CES73 = 87	CES98 = 93
CES24 = 91	CES49 = 96	CES74 = 92	CES99 = 90
CES25 = 72	CES50 = 98	CES75 = 90	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)