

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: P1049902

Luminaire Tested: **GALN-SA3B-927-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049902
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-927-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
90CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8015.5 lumens
Efficiency: N/A
Efficacy: 75.5 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): 106.2
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

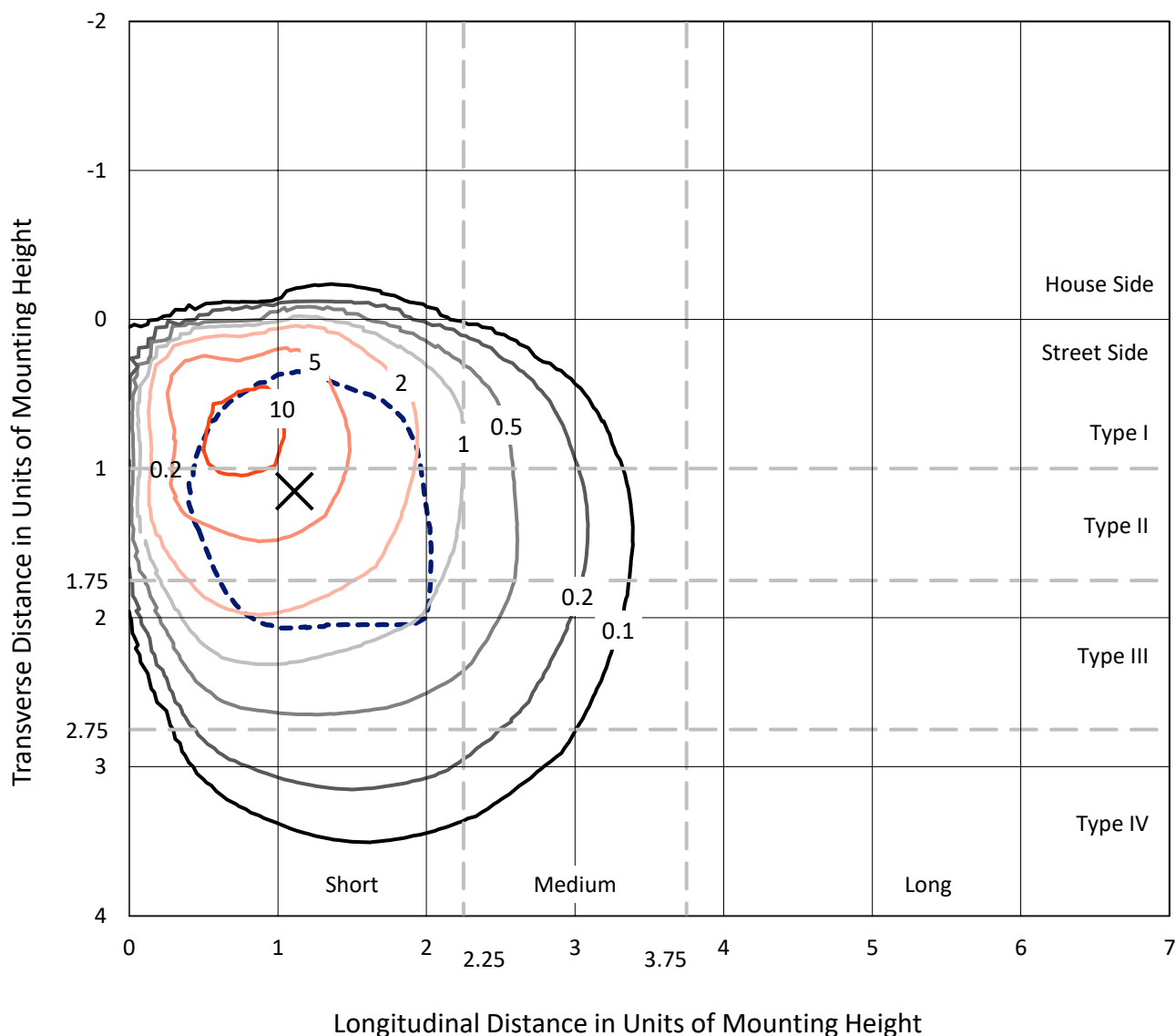
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

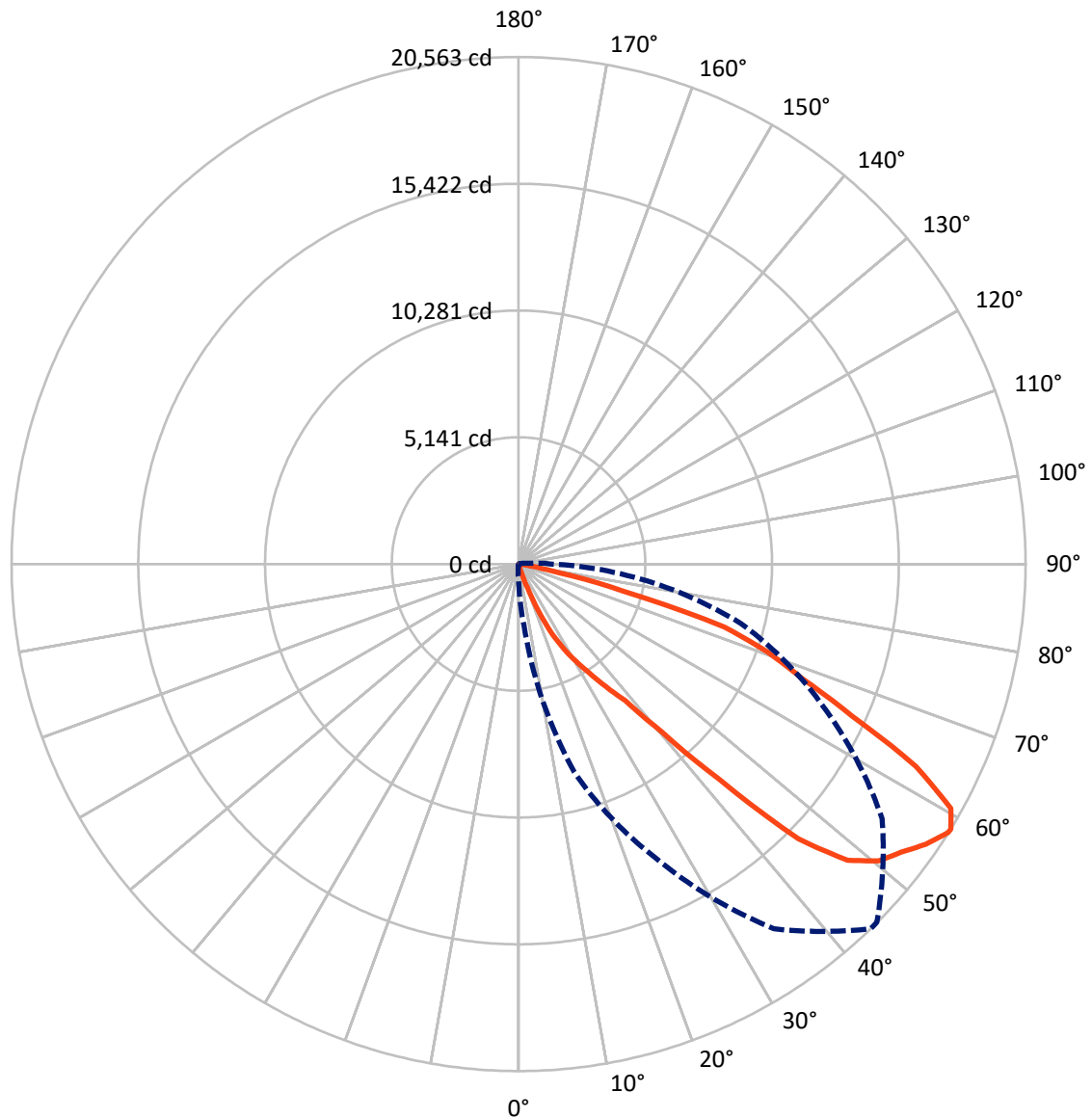


Based on 20 foot mounting height. Maximum calculated value = 14 fc

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	54.7	0.0	54.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7960.7	0.0	7960.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	8015.5	0.0	8015.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.0
10°-20°	17.6	0.2
20°-30°	189.9	2.4
30°-40°	561.6	7.0
40°-50°	1673.8	20.9
50°-60°	2655.8	33.1
60°-70°	2215.3	27.6
70°-80°	683.2	8.5
80°-90°	15.2	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°	8015.5	100.0
0°-180°	8015.5	100.0



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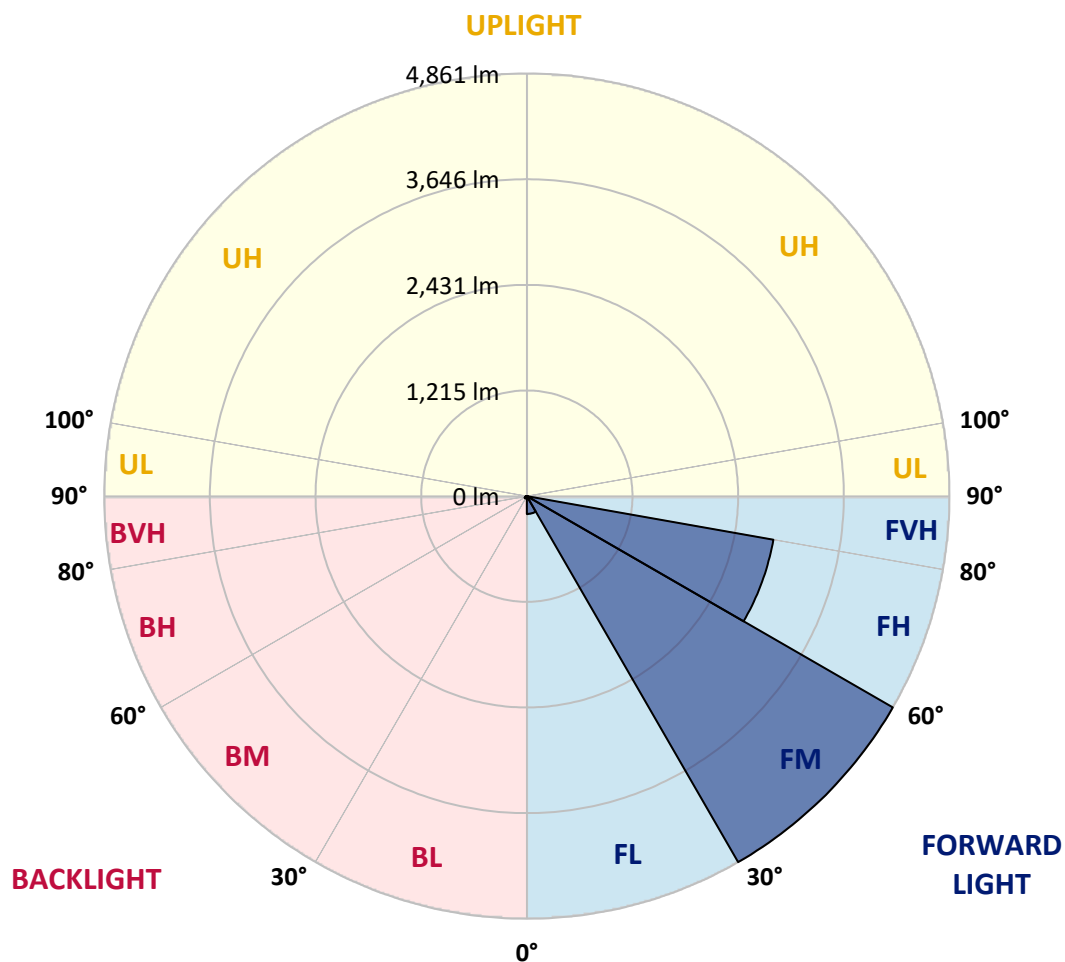
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.2	2.6			
FM	(30°-60°)	4861.2	60.6			
FH	(60°-80°)	2879.8	35.9			G2/5000
FVH	(80°-90°)	14.4	0.2			G1/100
BL	(0°-30°)	5.4	0.1	B0/110		
BM	(30°-60°)	30.0	0.4	B0/220		
BH	(60°-80°)	18.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
2.5°	45.4	45.4	43.6	41.2	38.8	36.3	35.7	34.5	33.9	33.3
5°	47.2	47.2	46.6	44.8	42.4	40.6	40.6	38.8	37.5	36.3
7.5°	48.4	49.0	50.3	49.7	48.4	46.6	46.6	45.4	43.6	40.6
10°	50.3	52.1	54.5	55.7	56.3	56.3	55.7	55.1	52.1	47.8
12.5°	52.1	55.7	61.8	67.8	71.4	76.3	75.7	74.5	66.6	57.5
15°	55.7	61.2	73.9	91.4	118.7	135.6	142.3	136.2	110.2	77.5
17.5°	59.9	69.0	107.2	191.3	313.6	371.8	406.9	378.4	250.7	147.1
20°	64.2	84.2	199.2	495.9	813.8	1003.9	1056.6	974.3	625.5	280.3
22.5°	71.4	118.1	403.9	1025.1	1753.5	2038.7	2092.6	1829.2	1181.3	553.4
25°	86.6	171.4	696.3	1670.6	2617.0	3098.3	3075.9	2730.8	1916.4	884.0
27.5°	108.4	249.5	1053.0	2373.6	3444.1	3868.5	3919.4	3492.5	2554.6	1300.0
30°	139.9	345.7	1435.6	2936.7	4107.1	4566.1	4574.6	4133.1	3125.6	1665.1
32.5°	170.1	436.6	1770.5	3481.0	4760.4	5263.6	5301.2	4758.0	3551.9	2045.4
35°	193.2	495.9	2109.6	3959.4	5419.2	6112.5	6110.1	5465.2	4056.9	2385.1
37.5°	195.0	555.2	2416.6	4448.6	6253.6	7029.9	7106.8	6395.9	4667.2	2805.3
40°	190.7	621.8	2805.3	5211.5	7757.1	8948.1	9015.9	8119.8	5891.5	3524.6
42.5°	195.6	737.5	3436.2	6620.5	10253.5	11964.1	12094.9	11152.7	8142.2	4992.4
45°	221.0	954.9	4758.0	8977.8	13812.1	15897.4	15853.8	14496.9	10761.0	7226.6
47.5°	305.2	1487.1	6717.4	11272.0	16086.3	17943.4	17980.9	16322.5	12289.2	8944.5
50°	469.3	2275.5	8363.8	12484.8	17064.2	18927.3	18892.2	16975.8	12869.9	9790.3
52.5°	610.3	2845.9	9189.7	12910.5	17189.5	19413.6	19411.1	17147.8	12960.1	9863.0
55°	645.5	2888.8	9196.3	12933.5	17470.5	20049.9	20129.9	17571.0	13077.0	9545.7
57.5°	631.5	2557.6	8812.5	13066.7	17970.6	20542.2	20546.4	17980.9	13373.7	9351.3
58°	619.4	2505.6	8734.9	13142.4	18056.6	20562.8	20552.5	17999.7	13615.3	9344.1
60°	551.6	2175.6	8432.8	13335.5	17928.9	20140.2	20043.9	17589.8	13579.6	9269.6
62.5°	433.5	1697.2	8135.5	13112.1	16559.2	18094.2	18134.1	15572.9	12379.5	8835.5
65°	345.1	1264.9	7515.5	11501.5	13635.9	14859.0	15007.9	12663.4	10332.9	7481.6
67.5°	274.9	914.3	6304.5	9157.0	10790.0	12401.3	12509.6	10632.0	8005.3	5732.3
70°	223.4	618.2	4351.7	6696.8	8899.6	10711.3	10718.0	8832.4	5975.1	3755.9
72.5°	198.0	428.1	2526.1	4884.0	7216.4	8728.3	8552.1	7167.3	4592.1	2224.6
75°	171.4	284.0	1238.9	2985.7	4375.3	4405.0	4472.2	3324.8	2295.5	1057.8
77.5°	141.1	201.6	488.0	815.6	1312.1	1679.7	1742.0	1320.0	763.5	260.4
80°	96.9	95.7	131.4	250.1	375.4	470.5	439.0	339.7	199.8	99.9
82.5°	41.8	45.4	59.3	71.4	58.1	56.3	53.9	34.5	26.6	20.6
85°	13.3	12.1	12.7	12.7	10.3	7.9	7.9	3.6	0.0	0.0
87.5°	6.7	5.4	5.4	4.8	3.0	1.2	0.6	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°
35.1	0°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
32.7	2.5°	32.1	32.1	30.9	29.7	29.1	27.9	27.2	26.6	26.0	25.4
35.1	5°	33.9	33.3	31.5	29.7	27.9	26.0	24.8	23.6	22.4	21.8
38.8	7.5°	36.9	35.7	32.1	29.1	26.6	24.2	23.0	21.2	20.0	18.2
43.0	10°	40.6	38.1	33.3	29.7	26.0	23.0	21.2	19.4	17.6	15.1
49.0	12.5°	45.4	41.2	35.1	29.1	24.8	21.2	19.4	17.0	15.1	13.3
56.9	15°	49.7	44.2	35.7	29.1	23.6	19.4	17.0	14.5	12.7	10.3
71.4	17.5°	55.7	46.6	35.1	27.2	21.8	17.0	14.5	12.7	9.7	6.1
106.0	20°	66.0	48.4	33.9	25.4	18.8	13.9	10.9	8.5	4.2	1.2
159.2	22.5°	82.3	53.3	32.7	23.0	16.3	10.9	7.3	3.0	0.0	0.0
242.2	25°	113.8	61.8	32.7	21.8	14.5	7.9	2.4	0.0	0.0	0.0
343.9	27.5°	151.4	73.3	32.7	18.8	11.5	4.2	0.0	0.0	0.0	0.0
468.7	30°	189.5	86.0	32.7	16.3	9.1	0.6	0.0	0.0	0.0	0.0
577.0	32.5°	225.9	96.9	33.3	13.9	6.1	0.0	0.0	0.0	0.0	0.0
727.2	35°	262.8	98.7	32.7	12.1	3.6	0.0	0.0	0.0	0.0	0.0
911.3	37.5°	310.0	95.1	30.9	10.9	1.8	0.0	0.0	0.0	0.0	0.0
1198.9	40°	381.5	96.9	29.1	10.3	0.6	0.0	0.0	0.0	0.0	0.0
1711.7	42.5°	513.5	104.8	26.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0
2726.6	45°	887.7	140.5	24.2	10.9	0.0	0.0	0.0	0.0	0.0	0.0
4093.2	47.5°	1468.3	252.5	23.6	10.9	0.0	0.0	0.0	0.0	0.0	0.0
4930.6	50°	1874.0	317.9	24.8	11.5	0.0	0.0	0.0	0.0	0.0	0.0
5035.3	52.5°	1871.0	354.2	26.0	12.1	2.4	0.0	0.0	0.0	0.0	0.0
4641.2	55°	1663.3	360.9	27.9	13.3	7.9	0.0	0.0	0.0	0.0	0.0
3988.4	57.5°	1390.2	329.4	32.1	16.3	14.5	0.0	0.0	0.0	0.0	0.0
3886.1	58°	1341.8	314.9	33.3	17.0	15.7	0.0	0.0	0.0	0.0	0.0
3370.8	60°	1099.6	256.7	42.4	21.2	21.2	0.0	0.0	0.0	0.0	0.0
2763.5	62.5°	759.3	224.0	48.4	27.2	21.8	0.0	0.0	0.0	0.0	0.0
2037.5	65°	537.1	202.2	52.7	29.1	17.6	0.0	0.0	0.0	0.0	0.0
1447.8	67.5°	401.4	186.5	58.1	29.7	9.1	0.0	0.0	0.0	0.0	0.0
908.3	70°	307.6	175.0	71.4	31.5	2.4	0.0	0.0	0.0	0.0	0.0
541.3	72.5°	250.7	161.7	86.6	32.7	0.0	0.0	0.0	0.0	0.0	0.0
324.5	75°	207.7	145.9	83.6	35.7	0.0	0.0	0.0	0.0	0.0	0.0
173.2	77.5°	138.1	113.2	76.3	35.7	0.0	0.0	0.0	0.0	0.0	0.0
61.8	80°	48.4	44.8	59.3	31.5	0.0	0.0	0.0	0.0	0.0	0.0
12.7	82.5°	7.3	6.1	8.5	10.9	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°
35.1	0°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
24.8	2.5°	24.8	24.8	24.2	24.8	24.8	26.0	29.1	33.3	38.1	40.0
21.2	5°	20.6	20.0	19.4	19.4	19.4	21.2	23.6	28.5	33.9	36.3
17.6	7.5°	17.0	16.3	15.7	15.1	15.1	16.3	19.4	24.8	30.3	32.7
14.5	10°	13.9	12.7	12.1	11.5	11.5	12.7	15.7	21.2	27.2	29.7
12.1	12.5°	11.5	9.7	8.5	7.9	7.3	9.1	12.1	17.0	23.6	26.6
9.1	15°	7.9	6.1	4.2	3.6	3.0	4.8	7.9	13.3	20.0	23.6
4.8	17.5°	4.2	1.8	0.6	0.0	0.0	1.2	3.6	9.7	16.3	19.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	12.1	15.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.3	10.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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	1.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8
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°
35.1	0°	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
41.8	2.5°	43.0	42.4	41.2	40.0	40.0	40.0	41.8	43.6	45.4	45.4
37.5	5°	40.0	40.0	39.4	38.1	38.1	38.8	41.2	44.2	46.6	47.2
34.5	7.5°	36.9	38.1	36.9	36.3	36.9	37.5	40.0	43.6	47.2	48.4
32.1	10°	35.1	35.7	35.7	35.1	35.1	36.3	38.8	43.6	48.4	50.3
29.1	12.5°	32.7	33.9	33.3	33.3	33.3	34.5	37.5	43.0	49.7	52.1
26.0	15°	30.3	32.1	32.1	31.5	31.5	32.1	36.3	42.4	51.5	55.7
22.4	17.5°	27.9	29.7	30.3	29.1	29.1	30.3	34.5	42.4	52.7	59.9
18.2	20°	23.0	26.0	27.9	26.0	26.0	27.2	31.5	40.0	53.3	64.2
13.3	22.5°	18.2	21.2	23.6	23.0	23.0	23.6	29.1	38.1	53.9	71.4
7.9	25°	13.3	16.3	18.2	19.4	19.4	21.2	26.6	36.9	56.3	86.6
3.6	27.5°	7.9	11.5	13.9	15.1	15.7	18.2	24.8	35.7	60.6	108.4
0.0	30°	3.6	6.7	9.7	12.1	12.1	16.3	23.0	34.5	66.0	139.9
0.0	32.5°	0.0	3.0	4.8	8.5	9.1	13.3	21.2	33.3	73.9	170.1
0.0	35°	0.0	0.0	2.4	6.7	6.7	10.9	19.4	32.1	86.0	193.2
0.0	37.5°	0.0	0.0	0.0	4.8	5.4	9.7	18.8	31.5	88.4	195.0
0.0	40°	0.0	0.0	0.0	3.6	4.2	9.1	18.8	32.1	79.9	190.7
0.0	42.5°	0.0	0.0	0.0	2.4	3.0	9.1	18.8	33.3	72.1	195.6
0.0	45°	0.0	0.0	0.0	1.8	2.4	9.7	18.2	32.7	67.8	221.0
0.0	47.5°	0.0	0.0	0.0	2.4	3.6	9.7	17.6	32.1	68.4	305.2
0.0	50°	0.0	0.0	0.0	3.0	4.2	9.7	18.2	30.9	75.1	469.3
0.0	52.5°	0.0	0.0	0.0	2.4	3.6	10.9	20.0	30.3	81.7	610.3
0.0	55°	0.0	0.0	0.0	0.6	1.8	13.9	21.8	30.3	92.0	645.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	15.7	24.8	32.1	109.0	631.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	15.7	25.4	32.1	110.2	619.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	15.7	27.9	35.7	118.7	551.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	13.3	33.3	44.8	123.5	433.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	10.9	39.4	49.0	127.2	345.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	10.3	40.6	49.7	129.0	274.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	10.9	40.0	53.3	135.0	223.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	12.1	36.3	58.7	135.0	198.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	12.7	33.9	66.0	122.9	171.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	12.1	33.3	76.9	109.6	141.1
0.0	80°	1.2	1.8	1.8	1.2	1.2	10.3	32.7	78.1	93.2	96.9
0.6	82.5°	3.6	4.8	4.2	3.0	3.0	9.1	29.1	65.4	48.4	41.8
3.6	85°	6.7	7.9	7.9	6.7	6.7	8.5	18.2	23.6	16.3	13.3
6.7	87.5°	9.1	10.3	10.3	9.1	9.1	8.5	7.9	7.3	6.7	6.7
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: SP1-2407-184-13

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

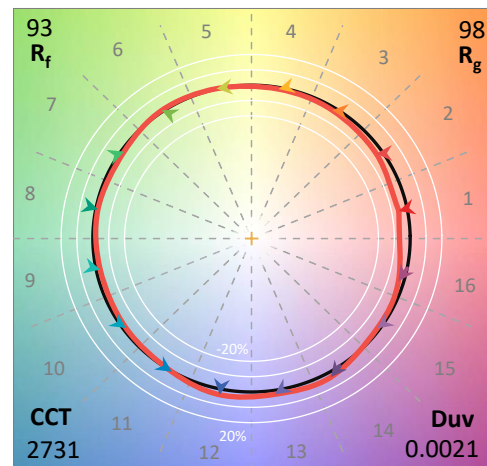
Test Information

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

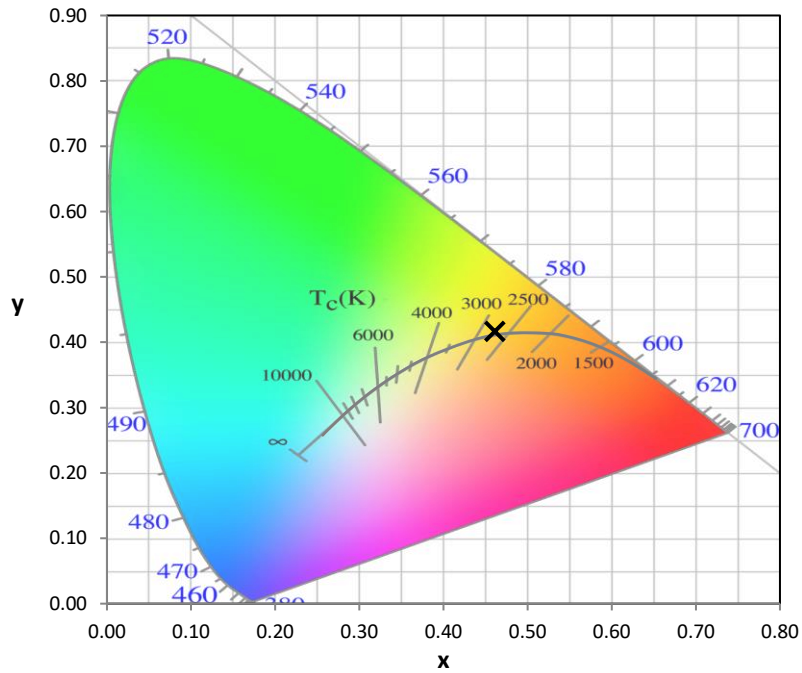
Stabilization Time: M
 Operation Time: 1H 0M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-13

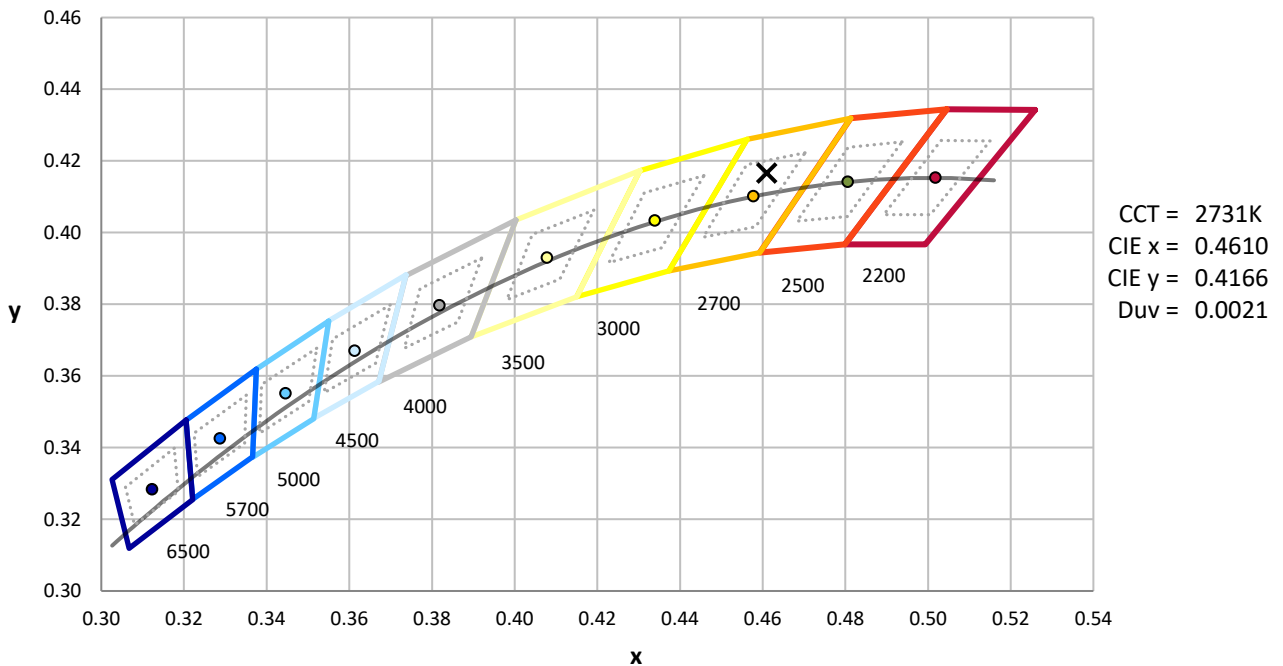
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



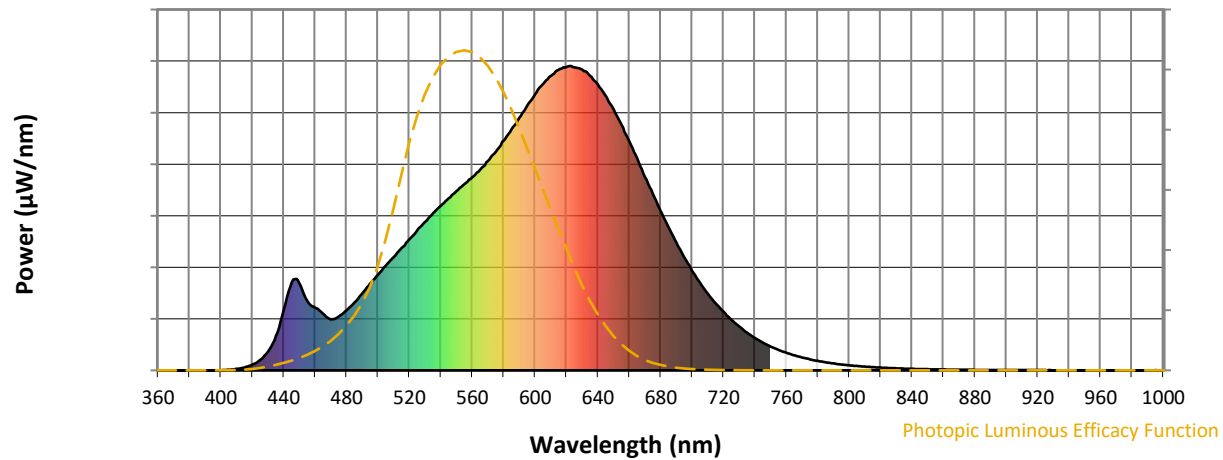
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-13

Photopic Flux vs. Wavelength

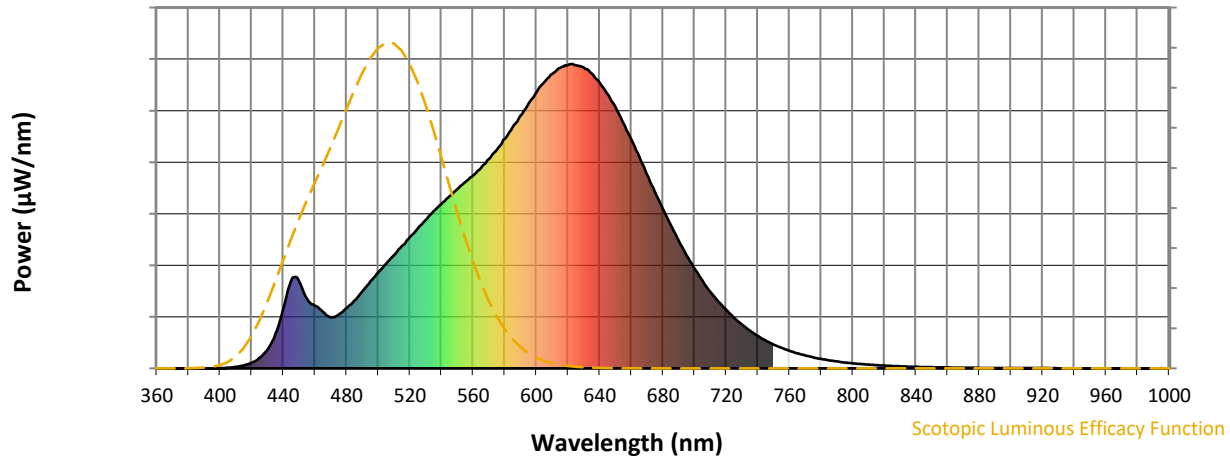


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-13

Scotopic Flux vs. Wavelength



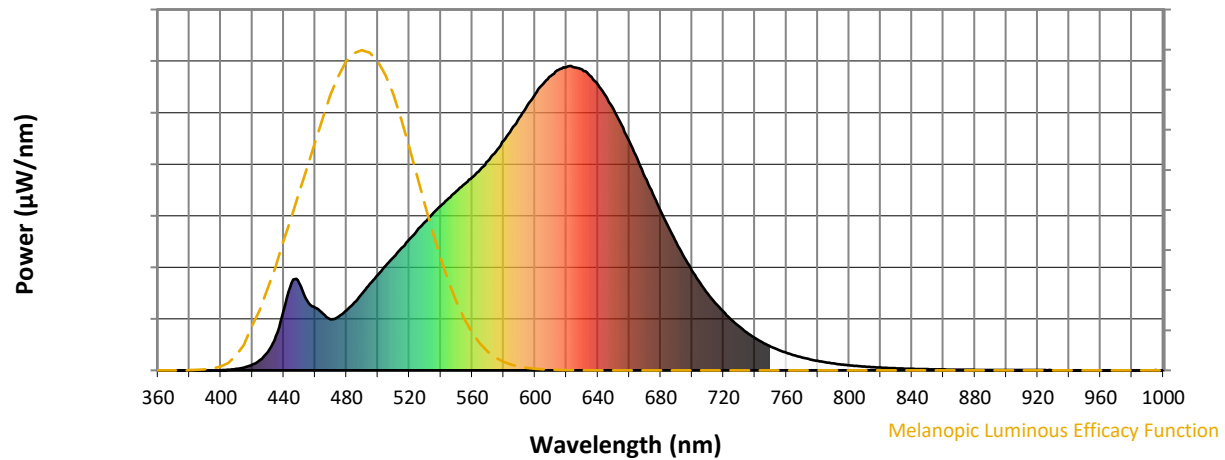
Scotopic Lumens: NR

S/P: 1.27

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			

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Melanopic Flux vs. Wavelength

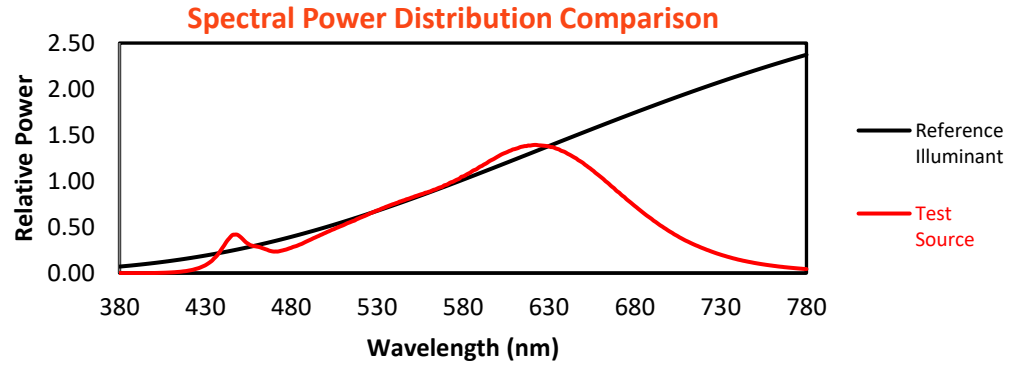
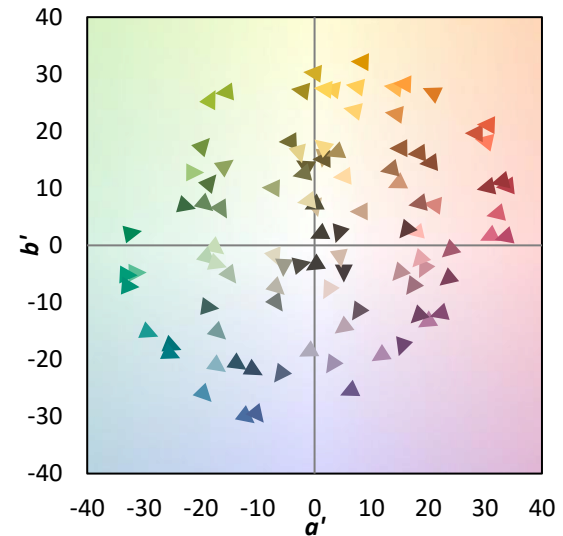
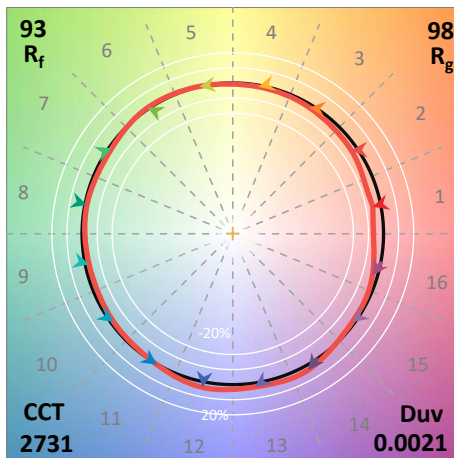
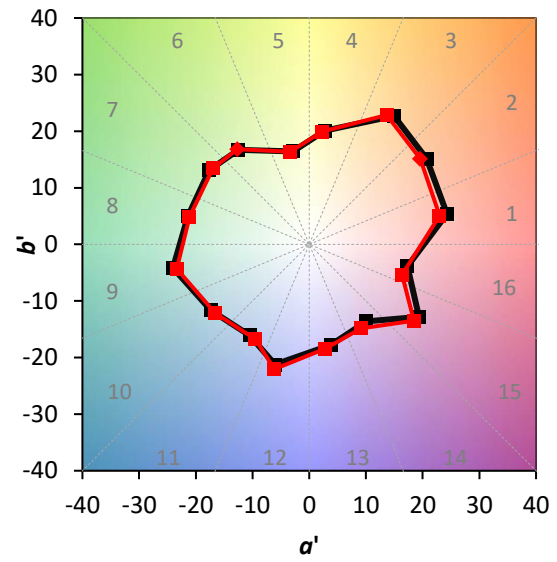
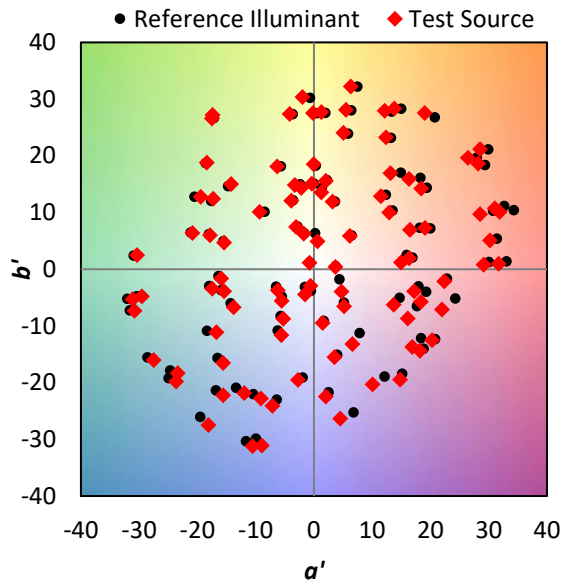


Melanopic Lumens: NR

M/P: 2.38

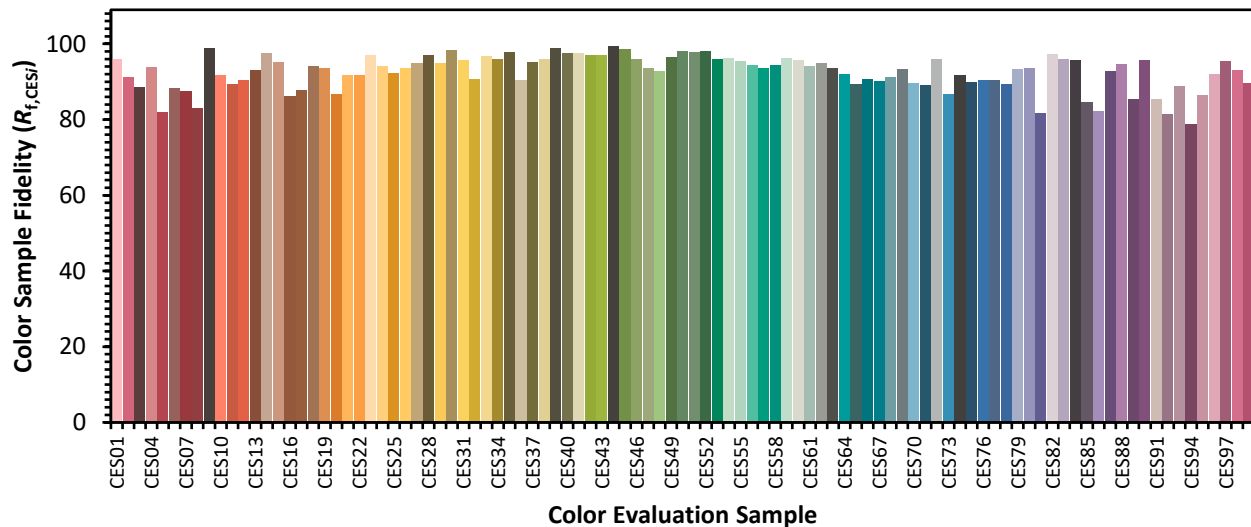
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	253	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			

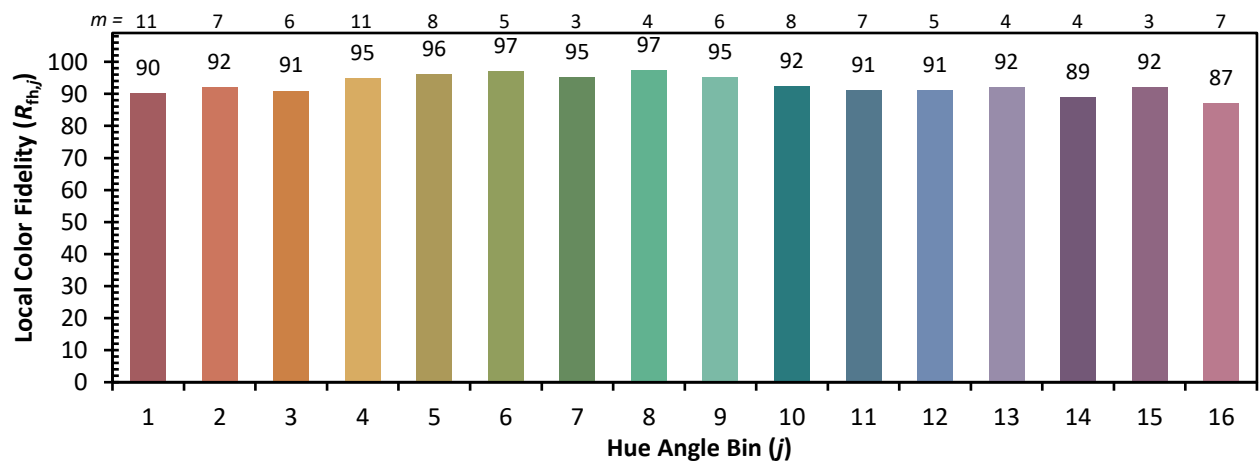
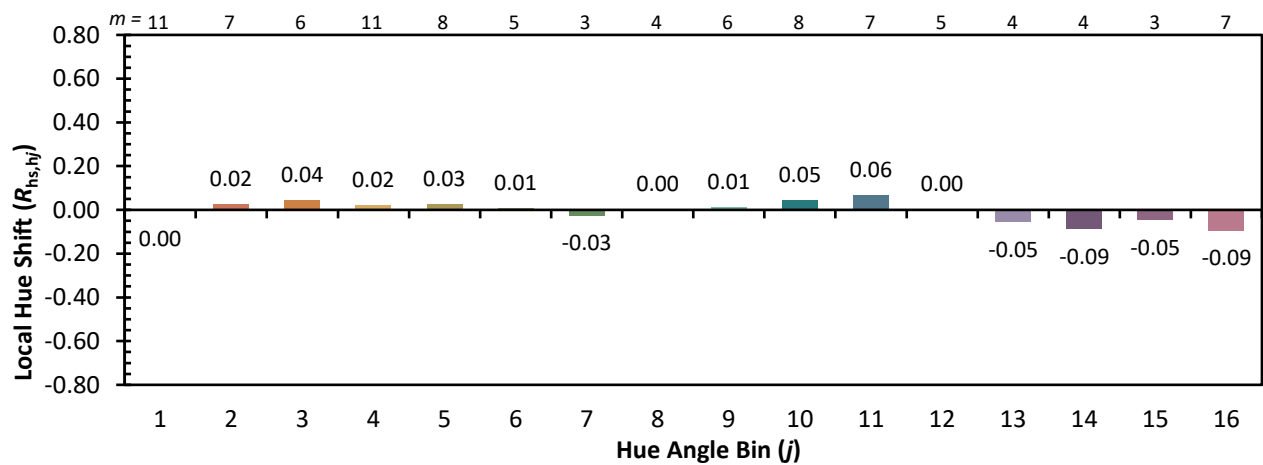
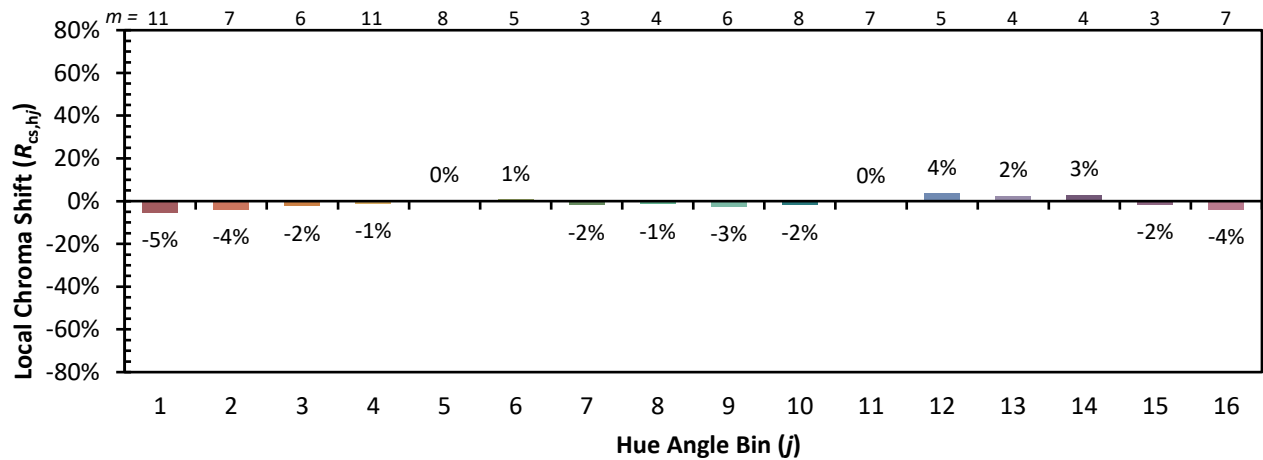
REPORT NUMBER: SP1-2407-184-13

TM-30-18
Summary
 $R_f = 92.6$
 $R_g = 98$
 $CIE\ R_a = 91.8$
 $R_9 = 54.7$

Color Vector Graphics


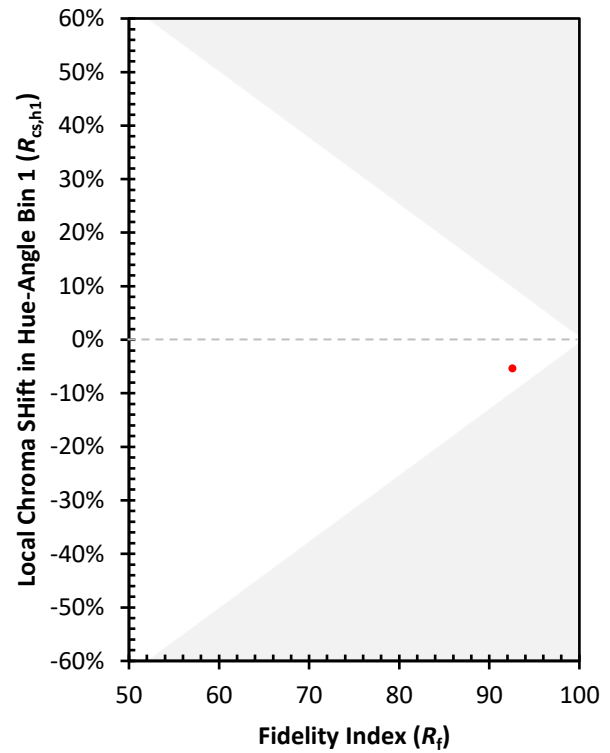
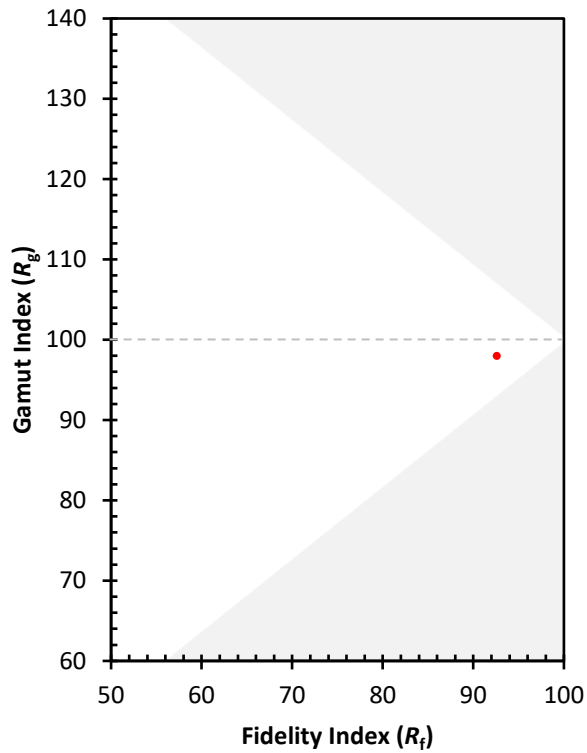
Individual Sample Fidelity Index ($R_{f,i}$)

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)