

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: P1050002

Luminaire Tested: **GALN-SA1B-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050002
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 1xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3042 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 38.7
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

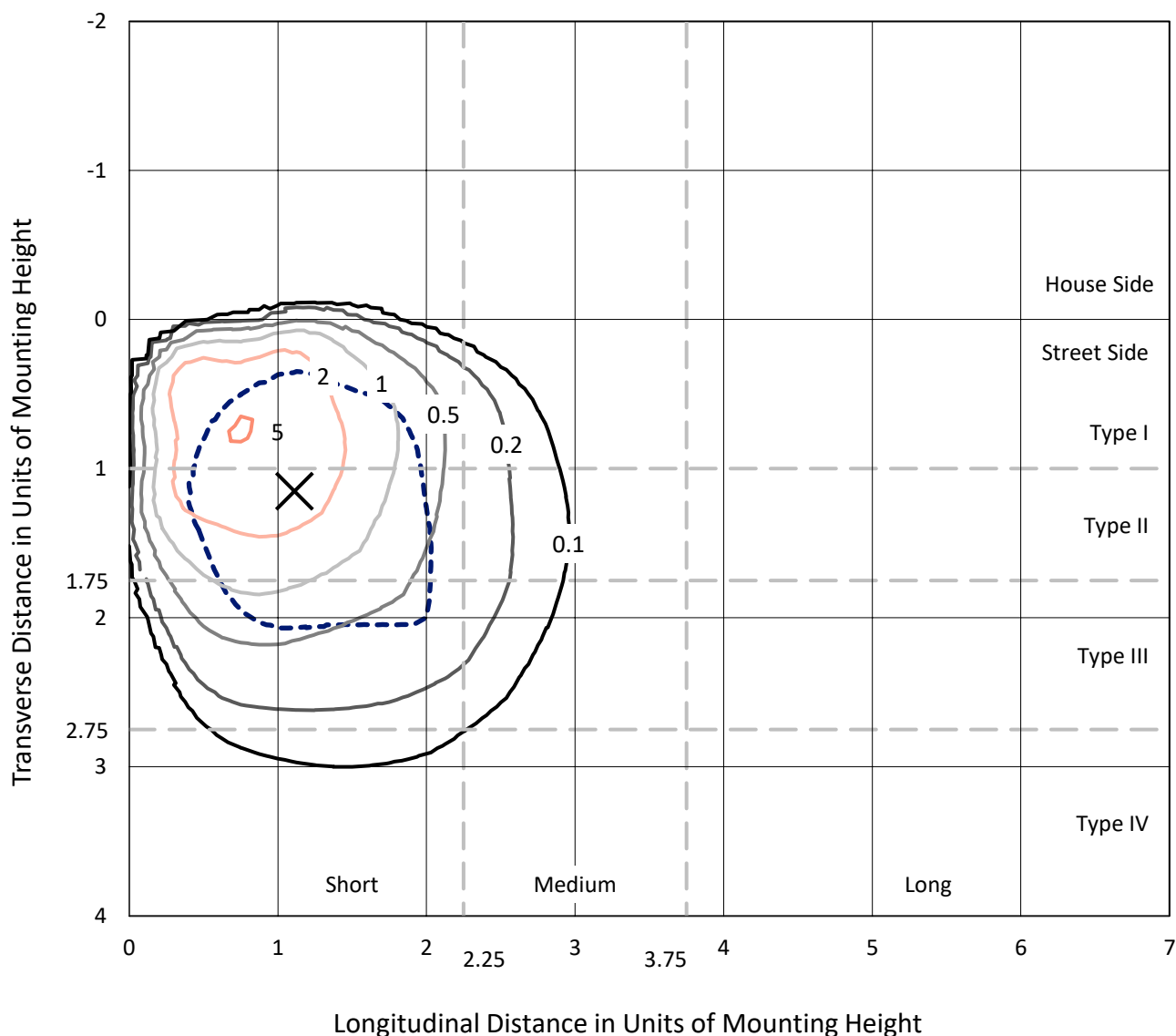
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

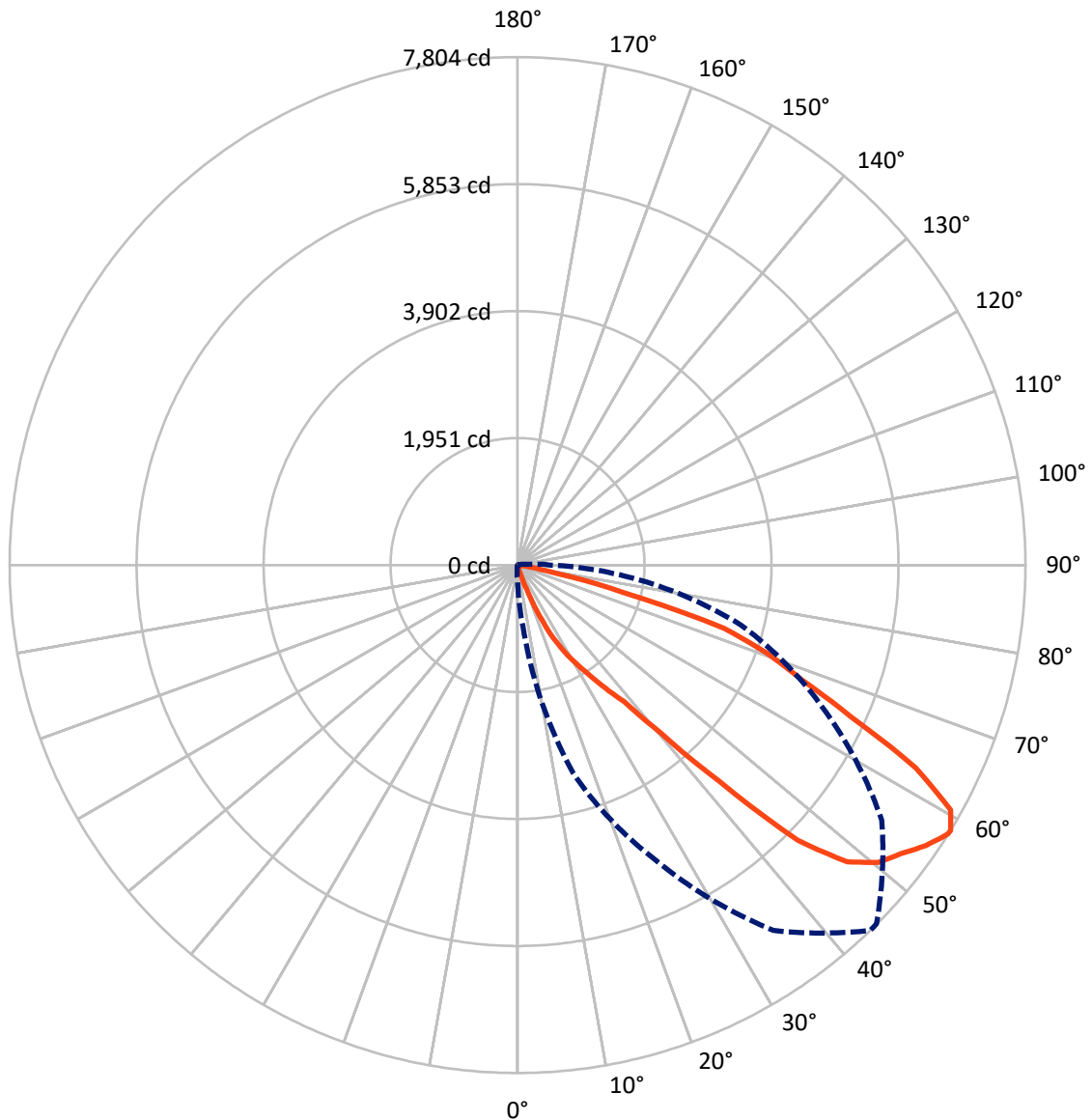


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc

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	20.8	0.0	20.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3021.2	0.0	3021.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	3042.0	0.0	3042.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.0
10°-20°	6.7	0.2
20°-30°	72.1	2.4
30°-40°	213.1	7.0
40°-50°	635.2	20.9
50°-60°	1007.9	33.1
60°-70°	840.7	27.6
70°-80°	259.3	8.5
80°-90°	5.8	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°	3042.0	100.0
0°-180°	3042.0	100.0



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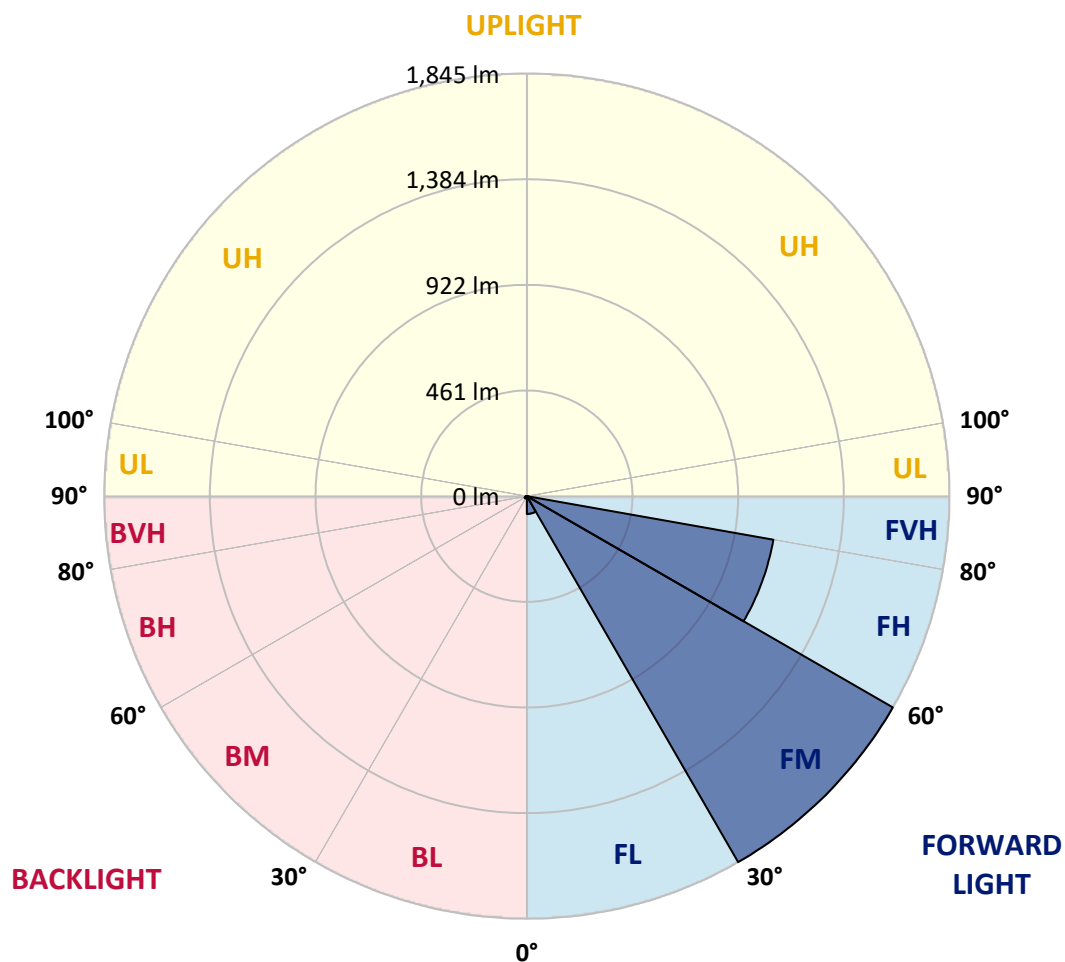
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.9	2.6			
FM	(30°-60°)	1844.9	60.6			
FH	(60°-80°)	1092.9	35.9			G1/1800
FVH	(80°-90°)	5.5	0.2			G0/10
BL	(0°-30°)	2.0	0.1	B0/110		
BM	(30°-60°)	11.4	0.4	B0/220		
BH	(60°-80°)	7.1	0.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
2.5°	17.2	17.2	16.5	15.6	14.7	13.8	13.6	13.1	12.9	12.6
5°	17.9	17.9	17.7	17.0	16.1	15.4	15.4	14.7	14.2	13.8
7.5°	18.4	18.6	19.1	18.8	18.4	17.7	17.7	17.2	16.5	15.4
10°	19.1	19.8	20.7	21.1	21.4	21.4	21.1	20.9	19.8	18.2
12.5°	19.8	21.1	23.4	25.7	27.1	29.0	28.7	28.3	25.3	21.8
15°	21.1	23.2	28.0	34.7	45.0	51.5	54.0	51.7	41.8	29.4
17.5°	22.7	26.2	40.7	72.6	119.0	141.1	154.4	143.6	95.1	55.8
20°	24.4	31.9	75.6	188.2	308.8	381.0	401.0	369.7	237.4	106.4
22.5°	27.1	44.8	153.3	389.0	665.5	773.7	794.2	694.2	448.3	210.0
25°	32.9	65.0	264.3	634.0	993.2	1175.9	1167.4	1036.4	727.3	335.5
27.5°	41.1	94.7	399.6	900.8	1307.1	1468.2	1487.5	1325.5	969.5	493.4
30°	53.1	131.2	544.8	1114.5	1558.7	1732.9	1736.1	1568.6	1186.2	631.9
32.5°	64.6	165.7	671.9	1321.1	1806.6	1997.6	2011.8	1805.7	1348.0	776.2
35°	73.3	188.2	800.6	1502.6	2056.7	2319.8	2318.9	2074.1	1539.6	905.2
37.5°	74.0	210.7	917.1	1688.3	2373.3	2667.9	2697.1	2427.3	1771.3	1064.6
40°	72.4	236.0	1064.6	1977.8	2943.9	3395.9	3421.6	3081.5	2235.9	1337.6
42.5°	74.2	279.9	1304.1	2512.6	3891.3	4540.5	4590.1	4232.6	3090.0	1894.7
45°	83.9	362.4	1805.7	3407.2	5241.8	6033.2	6016.7	5501.7	4083.9	2742.6
47.5°	115.8	564.4	2549.3	4277.8	6104.9	6809.7	6824.0	6194.6	4663.9	3394.5
50°	178.1	863.6	3174.1	4738.1	6476.1	7183.1	7169.8	6442.5	4884.3	3715.5
52.5°	231.6	1080.0	3487.6	4899.7	6523.6	7367.7	7366.7	6507.8	4918.5	3743.1
55°	245.0	1096.3	3490.1	4908.4	6630.3	7609.2	7639.5	6668.4	4962.9	3622.7
57.5°	239.7	970.7	3344.4	4959.0	6820.1	7796.0	7797.6	6824.0	5075.5	3548.9
58°	235.1	950.9	3315.0	4987.7	6852.7	7803.8	7799.9	6831.1	5167.2	3546.2
60°	209.3	825.7	3200.3	5061.0	6804.2	7643.4	7606.9	6675.5	5153.6	3517.9
62.5°	164.5	644.1	3087.5	4976.2	6284.4	6866.9	6882.1	5910.1	4698.1	3353.2
65°	131.0	480.0	2852.2	4364.9	5175.0	5639.2	5695.7	4805.9	3921.4	2839.3
67.5°	104.3	347.0	2392.6	3475.2	4094.9	4706.4	4747.5	4035.0	3038.1	2175.5
70°	84.8	234.6	1651.5	2541.5	3377.5	4065.1	4067.6	3352.0	2267.6	1425.4
72.5°	75.1	162.5	958.7	1853.5	2738.7	3312.5	3245.6	2720.1	1742.8	844.3
75°	65.0	107.8	470.2	1133.1	1660.5	1671.8	1697.3	1261.8	871.1	401.5
77.5°	53.5	76.5	185.2	309.5	498.0	637.4	661.1	501.0	289.8	98.8
80°	36.8	36.3	49.9	94.9	142.5	178.6	166.6	128.9	75.8	37.9
82.5°	15.9	17.2	22.5	27.1	22.1	21.4	20.5	13.1	10.1	7.8
85°	5.1	4.6	4.8	4.8	3.9	3.0	3.0	1.4	0.0	0.0
87.5°	2.5	2.1	2.1	1.8	1.1	0.5	0.2	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°
13.3	0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
12.4	2.5°	12.2	12.2	11.7	11.3	11.0	10.6	10.3	10.1	9.9	9.7
13.3	5°	12.9	12.6	11.9	11.3	10.6	9.9	9.4	9.0	8.5	8.3
14.7	7.5°	14.0	13.6	12.2	11.0	10.1	9.2	8.7	8.0	7.6	6.9
16.3	10°	15.4	14.5	12.6	11.3	9.9	8.7	8.0	7.4	6.7	5.7
18.6	12.5°	17.2	15.6	13.3	11.0	9.4	8.0	7.4	6.4	5.7	5.1
21.6	15°	18.8	16.8	13.6	11.0	9.0	7.4	6.4	5.5	4.8	3.9
27.1	17.5°	21.1	17.7	13.3	10.3	8.3	6.4	5.5	4.8	3.7	2.3
40.2	20°	25.0	18.4	12.9	9.7	7.1	5.3	4.1	3.2	1.6	0.5
60.4	22.5°	31.3	20.2	12.4	8.7	6.2	4.1	2.8	1.1	0.0	0.0
91.9	25°	43.2	23.4	12.4	8.3	5.5	3.0	0.9	0.0	0.0	0.0
130.5	27.5°	57.4	27.8	12.4	7.1	4.4	1.6	0.0	0.0	0.0	0.0
177.9	30°	71.9	32.6	12.4	6.2	3.4	0.2	0.0	0.0	0.0	0.0
219.0	32.5°	85.7	36.8	12.6	5.3	2.3	0.0	0.0	0.0	0.0	0.0
276.0	35°	99.7	37.5	12.4	4.6	1.4	0.0	0.0	0.0	0.0	0.0
345.8	37.5°	117.7	36.1	11.7	4.1	0.7	0.0	0.0	0.0	0.0	0.0
455.0	40°	144.8	36.8	11.0	3.9	0.2	0.0	0.0	0.0	0.0	0.0
649.6	42.5°	194.9	39.8	10.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0
1034.8	45°	336.9	53.3	9.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1553.4	47.5°	557.3	95.8	9.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
1871.2	50°	711.2	120.6	9.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
1911.0	52.5°	710.1	134.4	9.9	4.6	0.9	0.0	0.0	0.0	0.0	0.0
1761.4	55°	631.2	137.0	10.6	5.1	3.0	0.0	0.0	0.0	0.0	0.0
1513.7	57.5°	527.6	125.0	12.2	6.2	5.5	0.0	0.0	0.0	0.0	0.0
1474.8	58°	509.2	119.5	12.6	6.4	6.0	0.0	0.0	0.0	0.0	0.0
1279.3	60°	417.3	97.4	16.1	8.0	8.0	0.0	0.0	0.0	0.0	0.0
1048.8	62.5°	288.2	85.0	18.4	10.3	8.3	0.0	0.0	0.0	0.0	0.0
773.3	65°	203.8	76.8	20.0	11.0	6.7	0.0	0.0	0.0	0.0	0.0
549.4	67.5°	152.4	70.8	22.1	11.3	3.4	0.0	0.0	0.0	0.0	0.0
344.7	70°	116.7	66.4	27.1	11.9	0.9	0.0	0.0	0.0	0.0	0.0
205.4	72.5°	95.1	61.4	32.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0
123.2	75°	78.8	55.4	31.7	13.6	0.0	0.0	0.0	0.0	0.0	0.0
65.7	77.5°	52.4	43.0	29.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0
23.4	80°	18.4	17.0	22.5	11.9	0.0	0.0	0.0	0.0	0.0	0.0
4.8	82.5°	2.8	2.3	3.2	4.1	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°
13.3	0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
9.4	2.5°	9.4	9.4	9.2	9.4	9.4	9.9	11.0	12.6	14.5	15.2
8.0	5°	7.8	7.6	7.4	7.4	7.4	8.0	9.0	10.8	12.9	13.8
6.7	7.5°	6.4	6.2	6.0	5.7	5.7	6.2	7.4	9.4	11.5	12.4
5.5	10°	5.3	4.8	4.6	4.4	4.4	4.8	6.0	8.0	10.3	11.3
4.6	12.5°	4.4	3.7	3.2	3.0	2.8	3.4	4.6	6.4	9.0	10.1
3.4	15°	3.0	2.3	1.6	1.4	1.1	1.8	3.0	5.1	7.6	9.0
1.8	17.5°	1.6	0.7	0.2	0.0	0.0	0.5	1.4	3.7	6.2	7.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.6	5.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.8	3.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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	0.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8
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°
13.3	0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
15.9	2.5°	16.3	16.1	15.6	15.2	15.2	15.2	15.9	16.5	17.2	17.2
14.2	5°	15.2	15.2	14.9	14.5	14.5	14.7	15.6	16.8	17.7	17.9
13.1	7.5°	14.0	14.5	14.0	13.8	14.0	14.2	15.2	16.5	17.9	18.4
12.2	10°	13.3	13.6	13.6	13.3	13.3	13.8	14.7	16.5	18.4	19.1
11.0	12.5°	12.4	12.9	12.6	12.6	12.6	13.1	14.2	16.3	18.8	19.8
9.9	15°	11.5	12.2	12.2	11.9	11.9	12.2	13.8	16.1	19.5	21.1
8.5	17.5°	10.6	11.3	11.5	11.0	11.0	11.5	13.1	16.1	20.0	22.7
6.9	20°	8.7	9.9	10.6	9.9	9.9	10.3	11.9	15.2	20.2	24.4
5.1	22.5°	6.9	8.0	9.0	8.7	8.7	9.0	11.0	14.5	20.5	27.1
3.0	25°	5.1	6.2	6.9	7.4	7.4	8.0	10.1	14.0	21.4	32.9
1.4	27.5°	3.0	4.4	5.3	5.7	6.0	6.9	9.4	13.6	23.0	41.1
0.0	30°	1.4	2.5	3.7	4.6	4.6	6.2	8.7	13.1	25.0	53.1
0.0	32.5°	0.0	1.1	1.8	3.2	3.4	5.1	8.0	12.6	28.0	64.6
0.0	35°	0.0	0.0	0.9	2.5	2.5	4.1	7.4	12.2	32.6	73.3
0.0	37.5°	0.0	0.0	0.0	1.8	2.1	3.7	7.1	11.9	33.5	74.0
0.0	40°	0.0	0.0	0.0	1.4	1.6	3.4	7.1	12.2	30.3	72.4
0.0	42.5°	0.0	0.0	0.0	0.9	1.1	3.4	7.1	12.6	27.3	74.2
0.0	45°	0.0	0.0	0.0	0.7	0.9	3.7	6.9	12.4	25.7	83.9
0.0	47.5°	0.0	0.0	0.0	0.9	1.4	3.7	6.7	12.2	26.0	115.8
0.0	50°	0.0	0.0	0.0	1.1	1.6	3.7	6.9	11.7	28.5	178.1
0.0	52.5°	0.0	0.0	0.0	0.9	1.4	4.1	7.6	11.5	31.0	231.6
0.0	55°	0.0	0.0	0.0	0.2	0.7	5.3	8.3	11.5	34.9	245.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	6.0	9.4	12.2	41.4	239.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	6.0	9.7	12.2	41.8	235.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	6.0	10.6	13.6	45.0	209.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	5.1	12.6	17.0	46.9	164.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	4.1	14.9	18.6	48.3	131.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.9	15.4	18.8	48.9	104.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	4.1	15.2	20.2	51.2	84.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	4.6	13.8	22.3	51.2	75.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	4.8	12.9	25.0	46.6	65.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	4.6	12.6	29.2	41.6	53.5
0.0	80°	0.5	0.7	0.7	0.5	0.5	3.9	12.4	29.6	35.4	36.8
0.2	82.5°	1.4	1.8	1.6	1.1	1.1	3.4	11.0	24.8	18.4	15.9
1.4	85°	2.5	3.0	3.0	2.5	2.5	3.2	6.9	9.0	6.2	5.1
2.5	87.5°	3.4	3.9	3.9	3.4	3.4	3.2	3.0	2.8	2.5	2.5
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

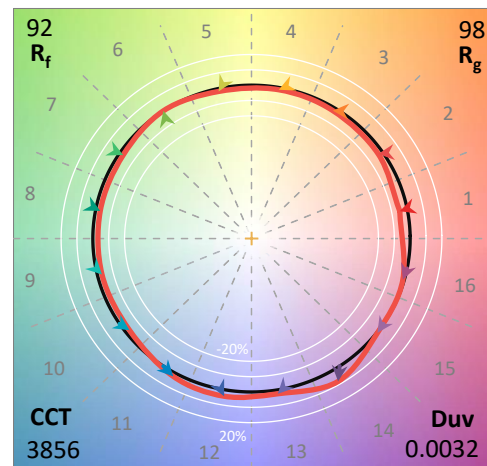
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

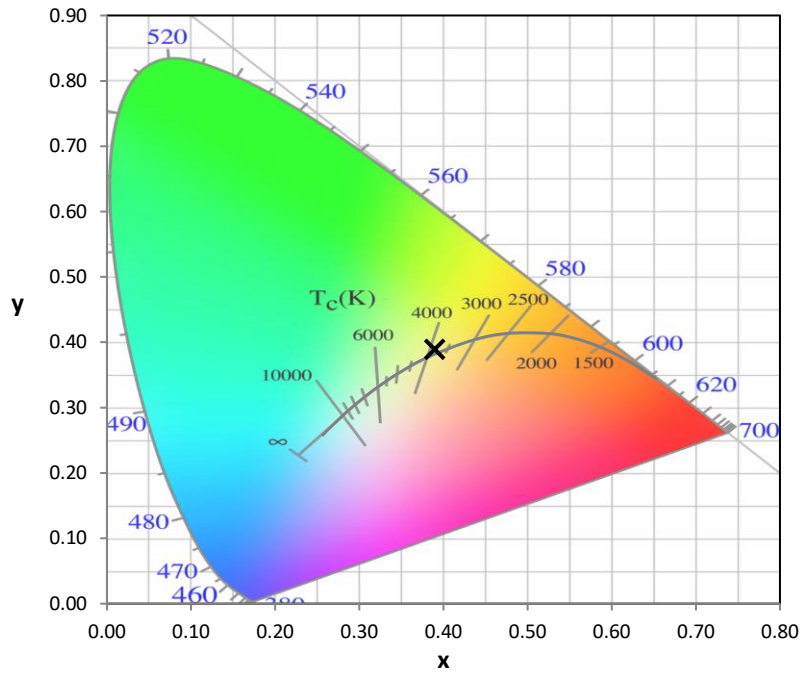
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

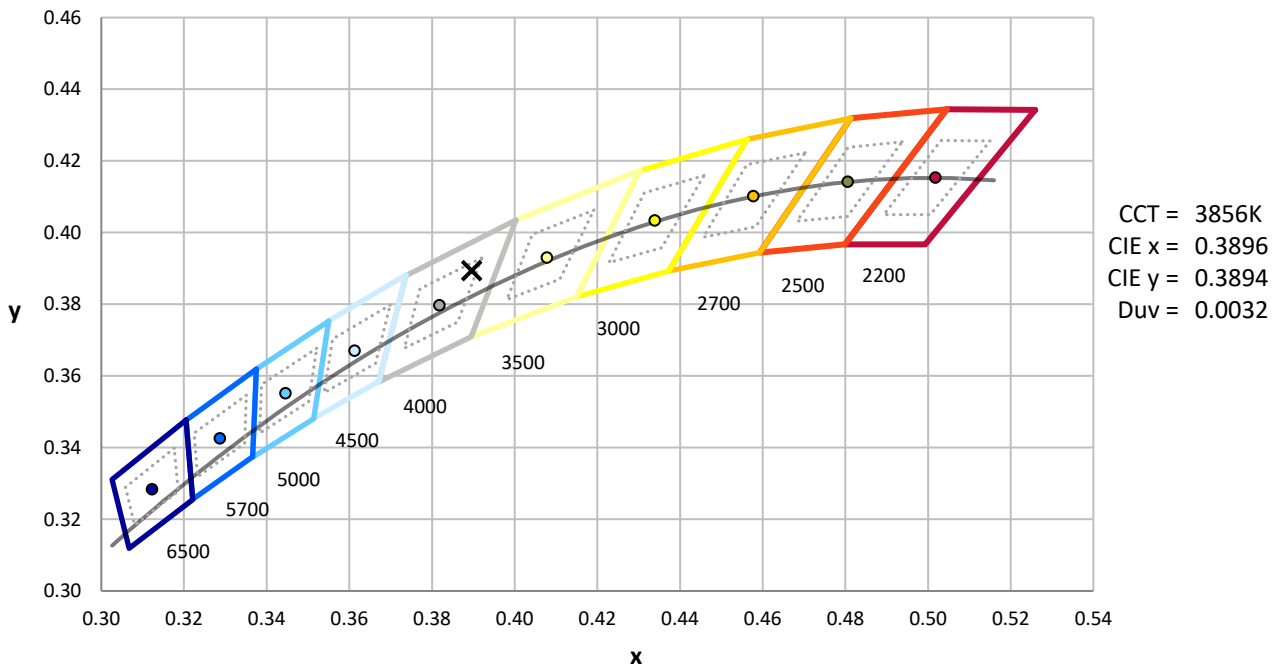
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



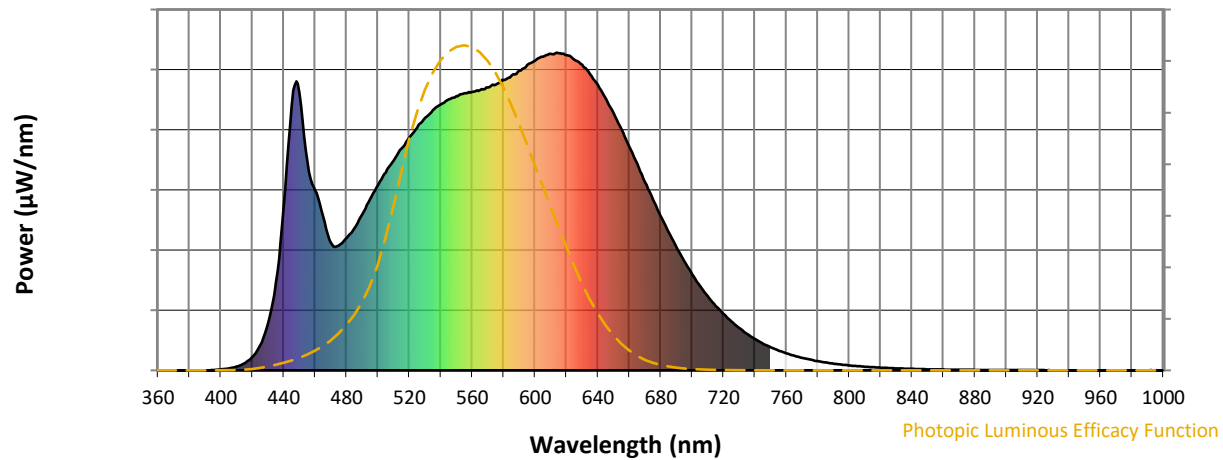
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

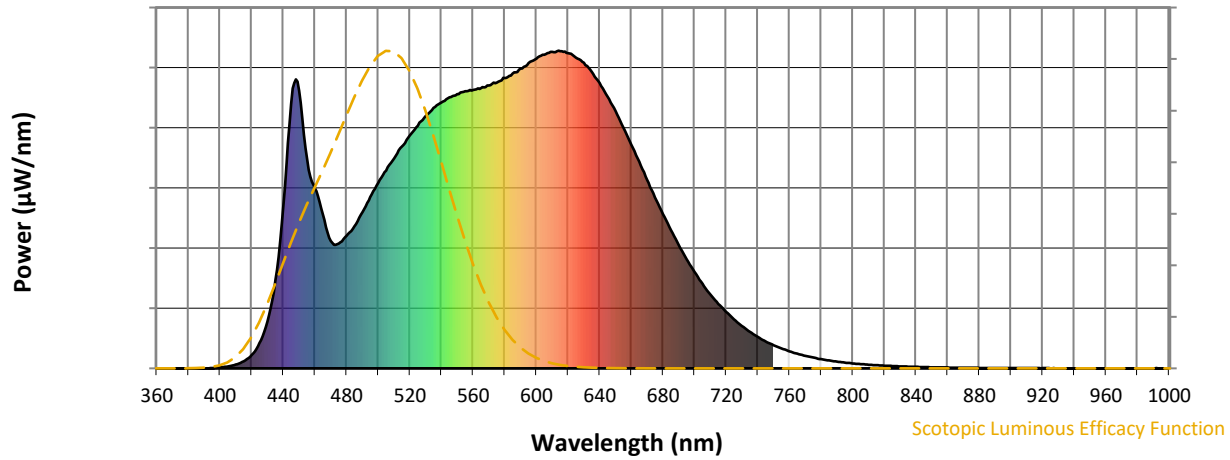


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



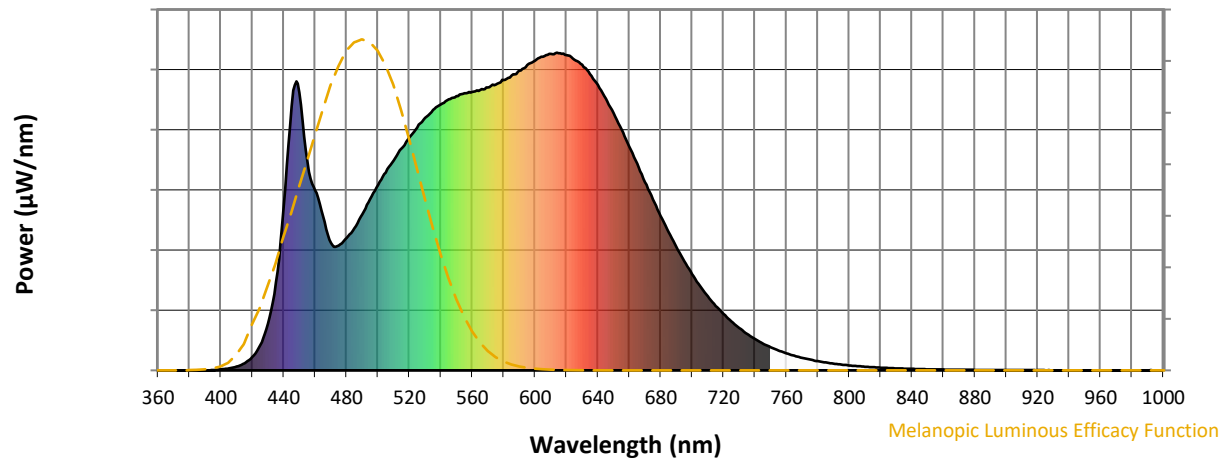
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

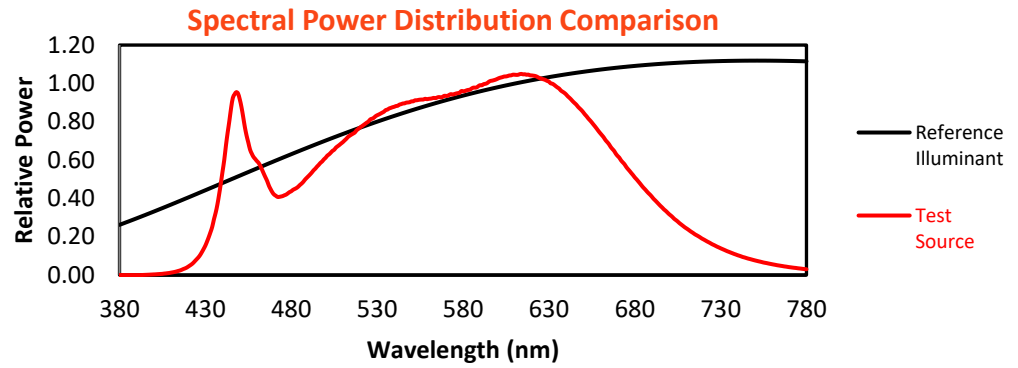
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

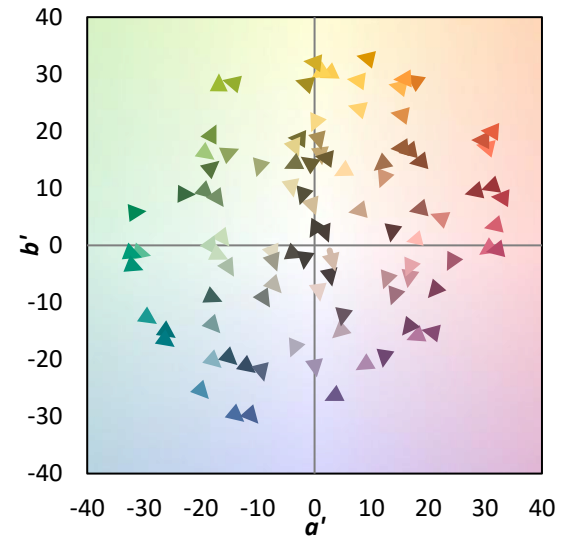
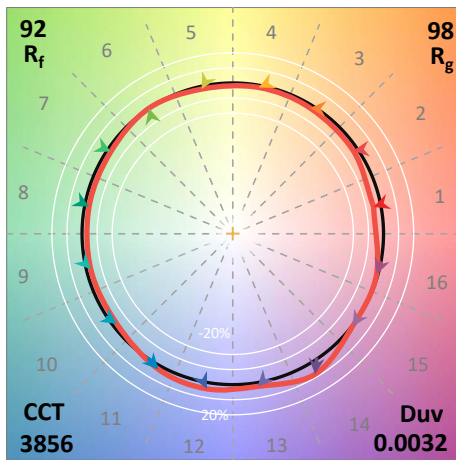
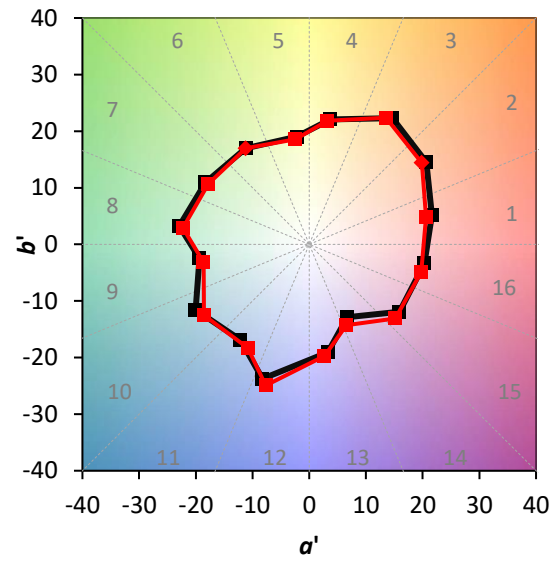
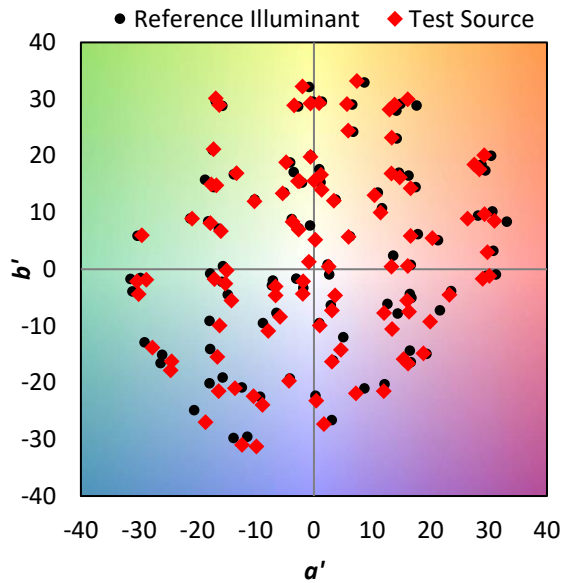
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

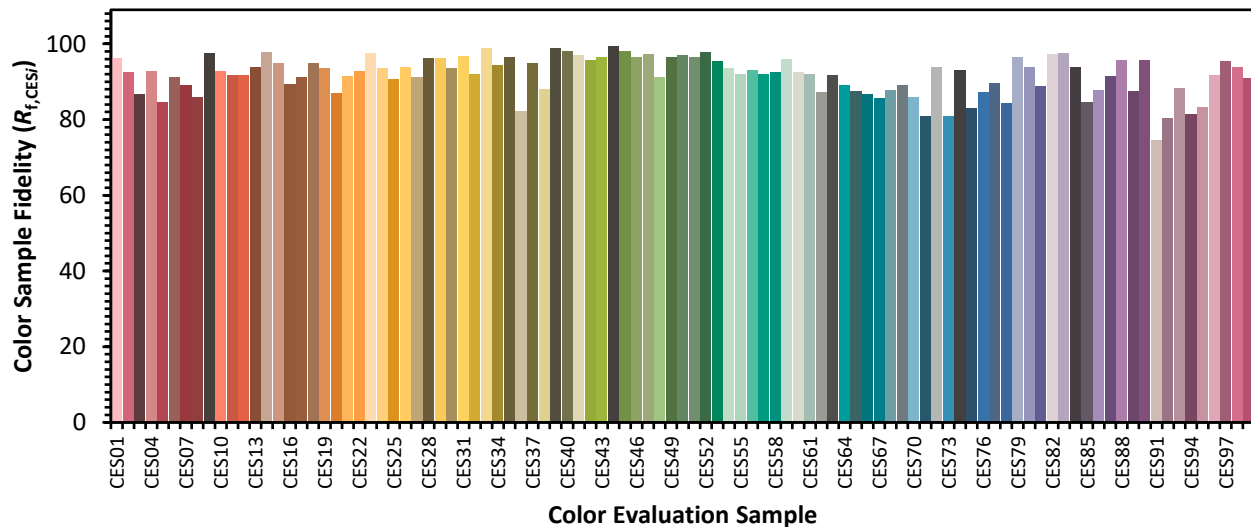


Color Vector Graphics

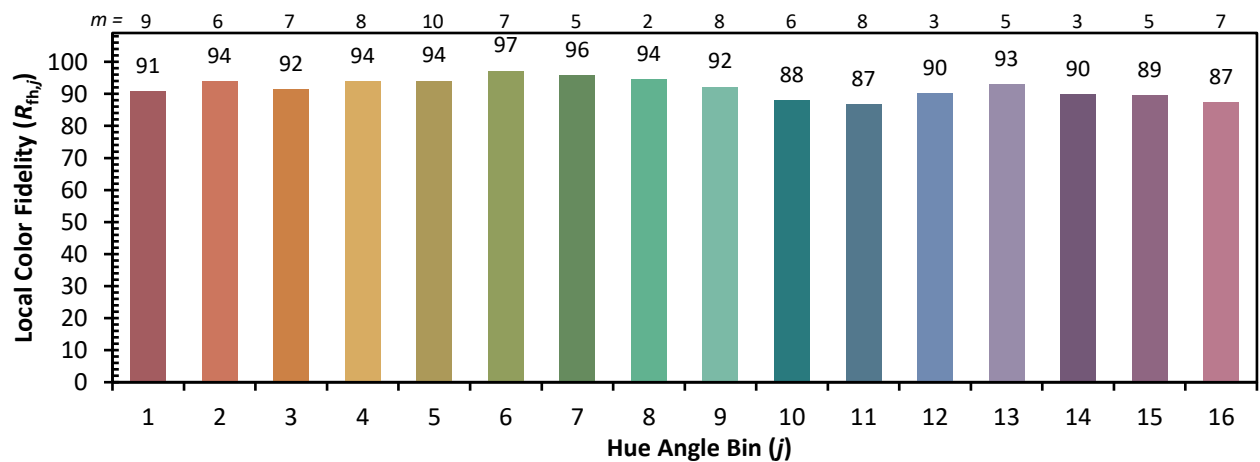
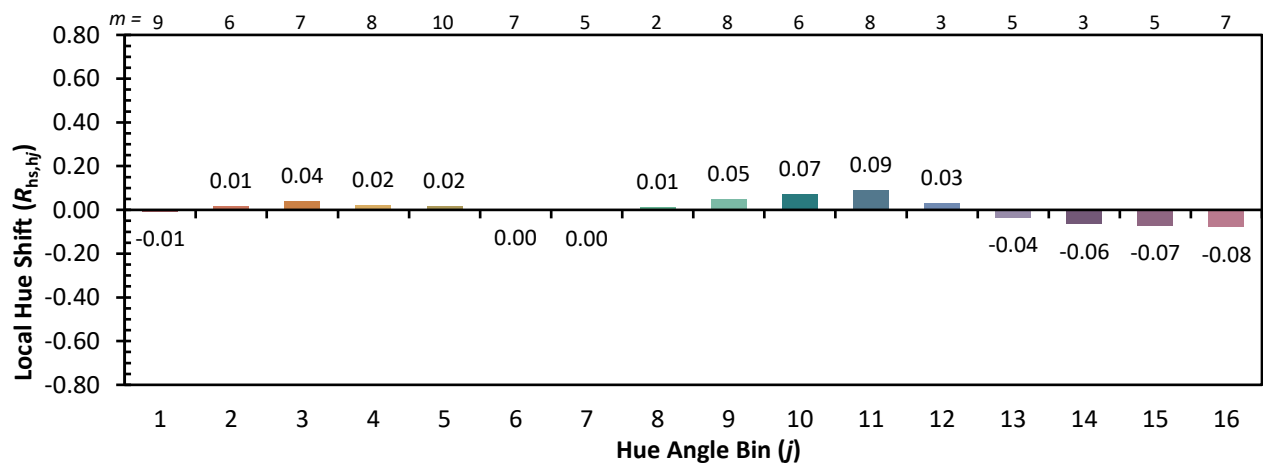
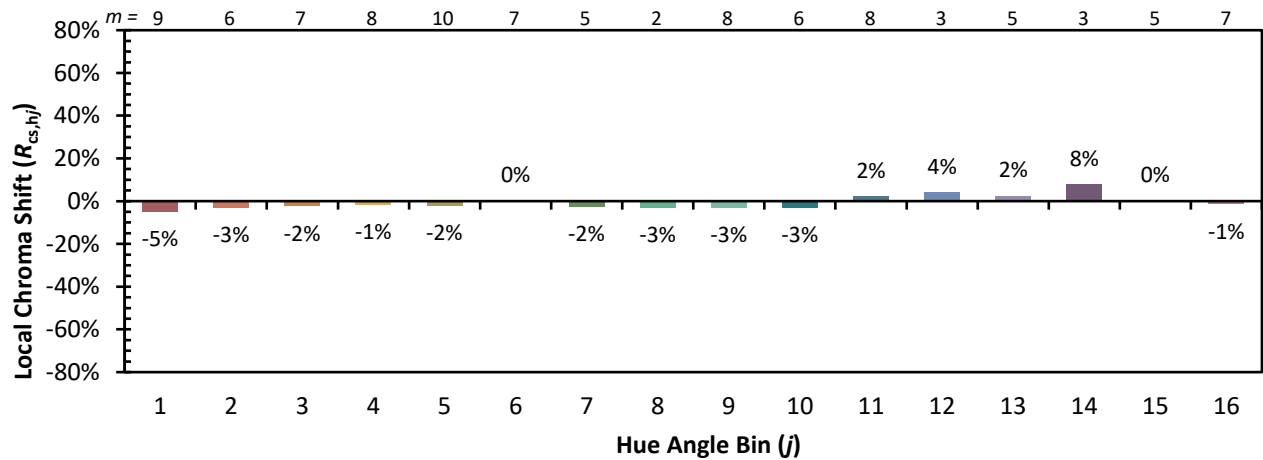


Individual Sample Fidelity Index ($R_{f,i}$)

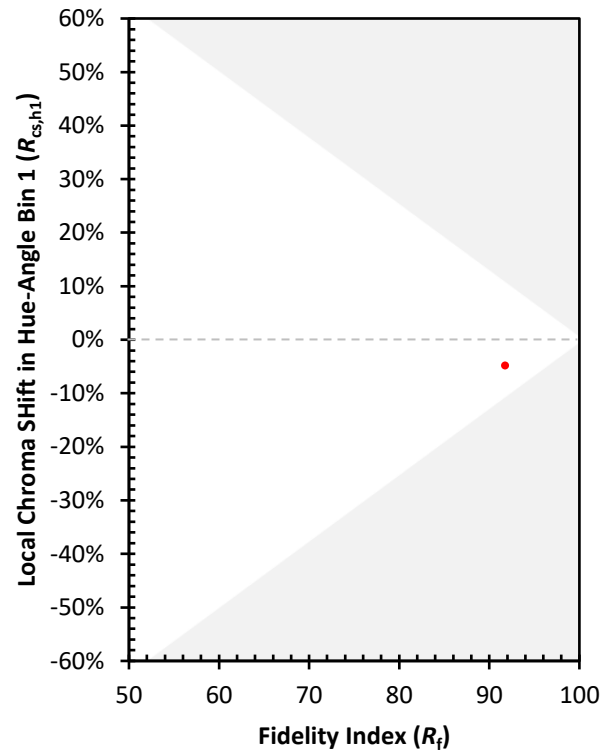
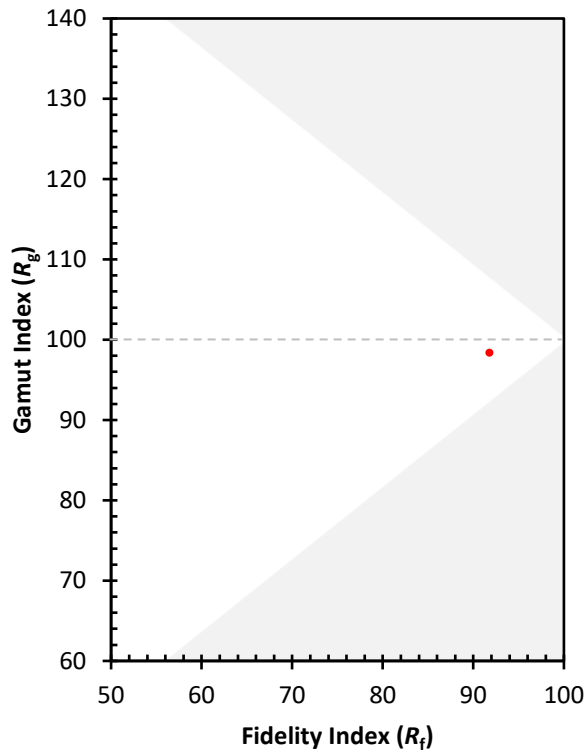
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)