

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: P1050001

Luminaire Tested: **GALN-SA1A-940-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050001
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 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: 2433.6 lumens
Efficiency: N/A
Efficacy: 83.9 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

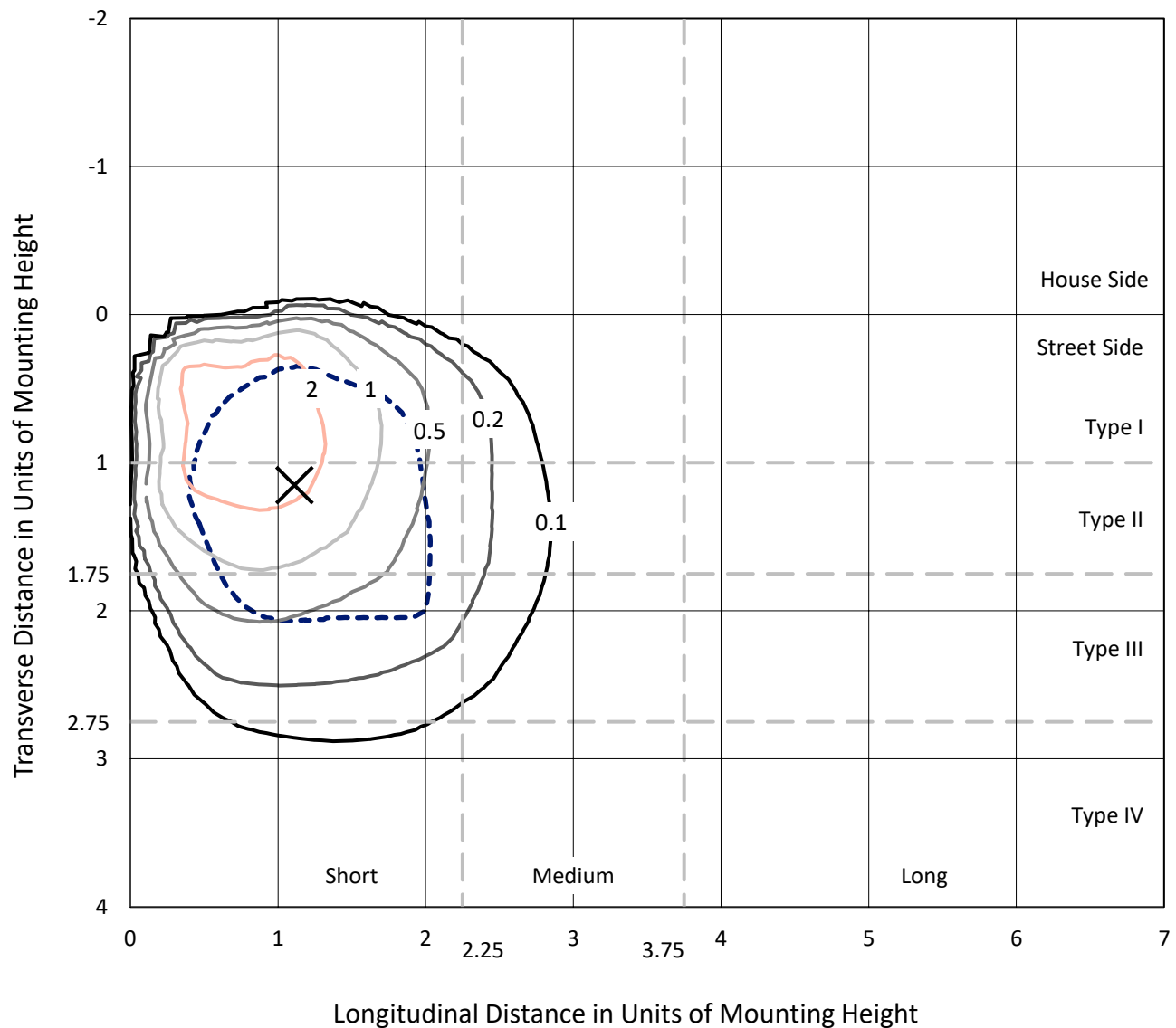
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

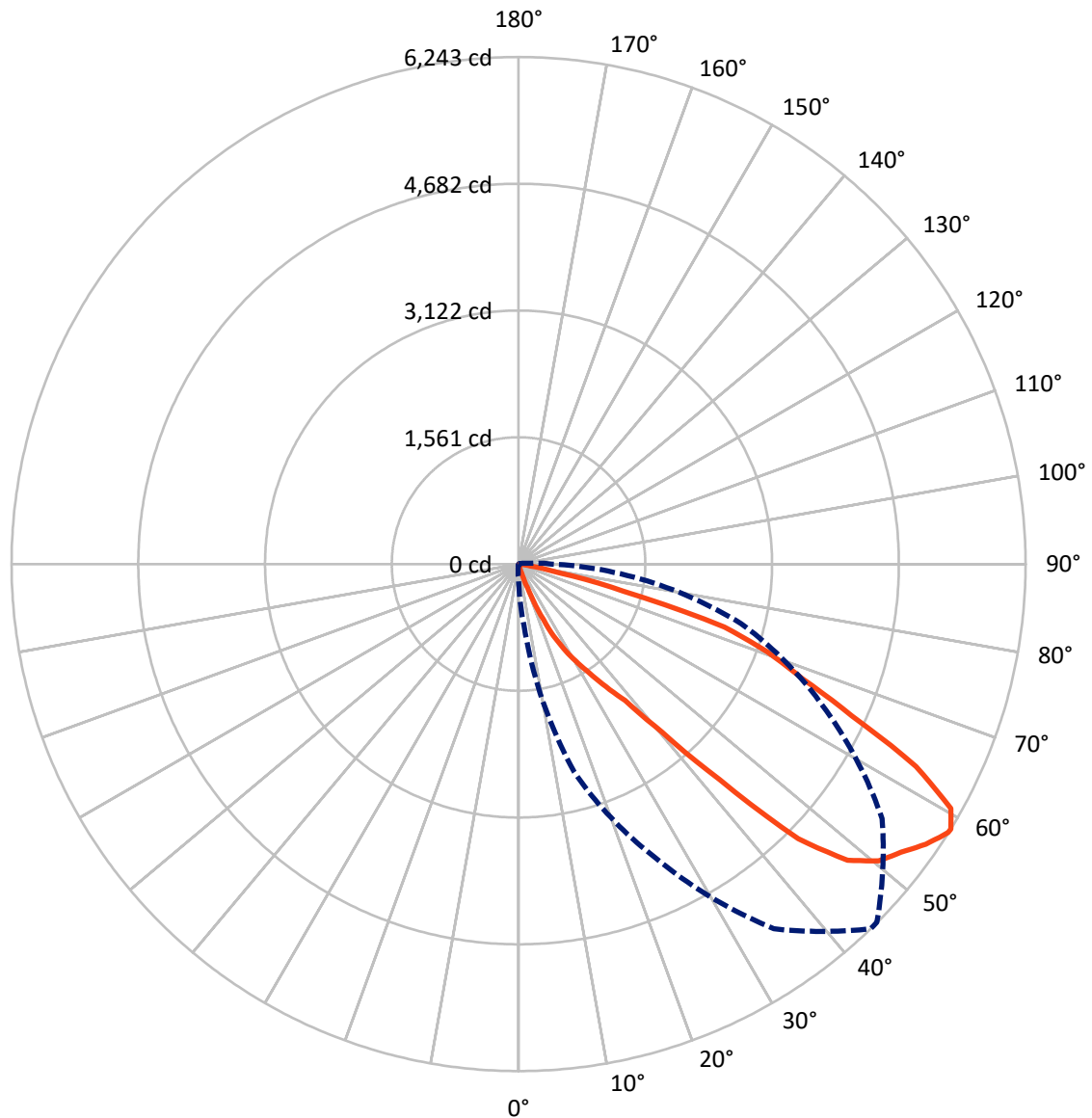
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	16.6	0.0	16.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	2417.0	0.0	2417.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	2433.6	0.0	2433.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.0
10°-20°	5.3	0.2
20°-30°	57.7	2.4
30°-40°	170.5	7.0
40°-50°	508.2	20.9
50°-60°	806.3	33.1
60°-70°	672.6	27.6
70°-80°	207.4	8.5
80°-90°	4.6	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°	2433.6	100.0
0°-180°	2433.6	100.0



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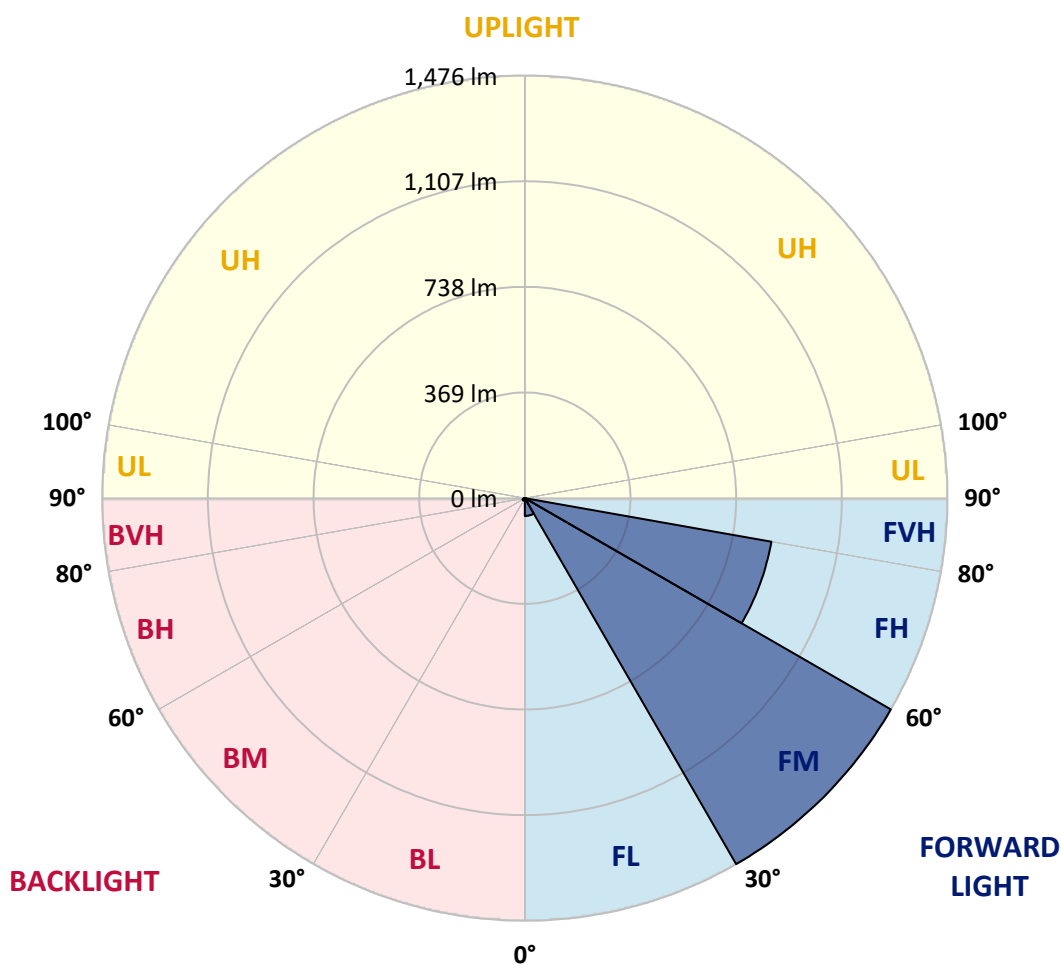
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	62.3	2.6			
FM	(30°-60°)	1475.9	60.6			
FH	(60°-80°)	874.3	35.9			G1/1800
FVH	(80°-90°)	4.4	0.2			G0/10
BL	(0°-30°)	1.6	0.1	B0/110		
BM	(30°-60°)	9.1	0.4	B0/220		
BH	(60°-80°)	5.7	0.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	13.8	13.8	13.2	12.5	11.8	11.0	10.8	10.5	10.3	10.1
5°	14.3	14.3	14.2	13.6	12.9	12.3	12.3	11.8	11.4	11.0
7.5°	14.7	14.9	15.3	15.1	14.7	14.2	14.2	13.8	13.2	12.3
10°	15.3	15.8	16.5	16.9	17.1	17.1	16.9	16.7	15.8	14.5
12.5°	15.8	16.9	18.8	20.6	21.7	23.2	23.0	22.6	20.2	17.5
15°	16.9	18.6	22.4	27.8	36.0	41.2	43.2	41.4	33.5	23.5
17.5°	18.2	21.0	32.5	58.1	95.2	112.9	123.5	114.9	76.1	44.7
20°	19.5	25.6	60.5	150.6	247.1	304.8	320.8	295.8	189.9	85.1
22.5°	21.7	35.8	122.6	311.2	532.4	619.0	635.3	555.4	358.7	168.0
25°	26.3	52.0	211.4	507.2	794.5	940.7	933.9	829.1	581.8	268.4
27.5°	32.9	75.7	319.7	720.6	1045.7	1174.5	1190.0	1060.4	775.6	394.7
30°	42.5	105.0	435.9	891.6	1247.0	1386.3	1388.9	1254.9	949.0	505.5
32.5°	51.7	132.5	537.5	1056.9	1445.3	1598.1	1609.5	1444.6	1078.4	621.0
35°	58.6	150.6	640.5	1202.1	1645.3	1855.8	1855.1	1659.3	1231.7	724.1
37.5°	59.2	168.6	733.7	1350.6	1898.7	2134.3	2157.7	1941.9	1417.0	851.7
40°	57.9	188.8	851.7	1582.3	2355.1	2716.7	2737.3	2465.2	1788.7	1070.1
42.5°	59.4	223.9	1043.3	2010.1	3113.1	3632.4	3672.1	3386.1	2472.0	1515.7
45°	67.1	289.9	1444.6	2725.7	4193.5	4826.6	4813.4	4401.4	3267.1	2194.1
47.5°	92.7	451.5	2039.5	3422.3	4884.0	5447.8	5459.2	4955.7	3731.1	2715.6
50°	142.5	690.9	2539.3	3790.5	5180.8	5746.5	5735.8	5154.0	3907.4	2972.4
52.5°	185.3	864.0	2790.1	3919.7	5218.9	5894.1	5893.4	5206.2	3934.8	2994.5
55°	196.0	877.1	2792.1	3926.7	5304.2	6087.3	6111.6	5334.7	3970.3	2898.2
57.5°	191.7	776.5	2675.5	3967.2	5456.1	6236.8	6238.1	5459.2	4060.4	2839.2
58°	188.1	760.7	2652.0	3990.1	5482.2	6243.0	6239.9	5464.9	4133.7	2836.9
60°	167.5	660.5	2560.3	4048.8	5443.4	6114.7	6085.5	5340.4	4122.9	2814.3
62.5°	131.6	515.3	2470.0	3981.0	5027.5	5493.6	5505.7	4728.1	3758.5	2682.5
65°	104.8	384.0	2281.8	3492.0	4140.0	4511.3	4556.5	3844.7	3137.2	2271.5
67.5°	83.5	277.6	1914.1	2780.1	3275.9	3765.1	3798.0	3228.0	2430.5	1740.4
70°	67.8	187.7	1321.2	2033.2	2702.0	3252.0	3254.1	2681.6	1814.1	1140.3
72.5°	60.1	130.0	767.0	1482.8	2191.0	2650.0	2596.5	2176.1	1394.2	675.4
75°	52.0	86.2	376.1	906.5	1328.4	1337.4	1357.8	1009.4	696.9	321.2
77.5°	42.8	61.2	148.2	247.6	398.4	510.0	528.9	400.8	231.8	79.0
80°	29.4	29.0	39.9	75.9	114.0	142.8	133.3	103.1	60.7	30.3
82.5°	12.7	13.8	18.0	21.7	17.6	17.1	16.4	10.5	8.1	6.3
85°	4.0	3.7	3.9	3.9	3.1	2.4	2.4	1.1	0.0	0.0
87.5°	2.0	1.7	1.7	1.5	0.9	0.4	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°
10.7	0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
9.9	2.5°	9.7	9.7	9.4	9.0	8.8	8.5	8.3	8.1	7.9	7.7
10.7	5°	10.3	10.1	9.6	9.0	8.5	7.9	7.5	7.2	6.8	6.6
11.8	7.5°	11.2	10.8	9.7	8.8	8.1	7.4	7.0	6.4	6.1	5.5
13.1	10°	12.3	11.6	10.1	9.0	7.9	7.0	6.4	5.9	5.3	4.6
14.9	12.5°	13.8	12.5	10.7	8.8	7.5	6.4	5.9	5.1	4.6	4.0
17.3	15°	15.1	13.4	10.8	8.8	7.2	5.9	5.1	4.4	3.9	3.1
21.7	17.5°	16.9	14.2	10.7	8.3	6.6	5.1	4.4	3.9	2.9	1.8
32.2	20°	20.0	14.7	10.3	7.7	5.7	4.2	3.3	2.6	1.3	0.4
48.3	22.5°	25.0	16.2	9.9	7.0	5.0	3.3	2.2	0.9	0.0	0.0
73.5	25°	34.6	18.8	9.9	6.6	4.4	2.4	0.7	0.0	0.0	0.0
104.4	27.5°	46.0	22.2	9.9	5.7	3.5	1.3	0.0	0.0	0.0	0.0
142.3	30°	57.5	26.1	9.9	5.0	2.8	0.2	0.0	0.0	0.0	0.0
175.2	32.5°	68.6	29.4	10.1	4.2	1.8	0.0	0.0	0.0	0.0	0.0
220.8	35°	79.8	30.0	9.9	3.7	1.1	0.0	0.0	0.0	0.0	0.0
276.7	37.5°	94.1	28.9	9.4	3.3	0.6	0.0	0.0	0.0	0.0	0.0
364.0	40°	115.8	29.4	8.8	3.1	0.2	0.0	0.0	0.0	0.0	0.0
519.7	42.5°	155.9	31.8	8.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
827.8	45°	269.5	42.6	7.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0
1242.7	47.5°	445.8	76.7	7.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
1497.0	50°	569.0	96.5	7.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
1528.8	52.5°	568.1	107.5	7.9	3.7	0.7	0.0	0.0	0.0	0.0	0.0
1409.1	55°	505.0	109.6	8.5	4.0	2.4	0.0	0.0	0.0	0.0	0.0
1210.9	57.5°	422.1	100.0	9.7	5.0	4.4	0.0	0.0	0.0	0.0	0.0
1179.9	58°	407.4	95.6	10.1	5.1	4.8	0.0	0.0	0.0	0.0	0.0
1023.4	60°	333.8	77.9	12.9	6.4	6.4	0.0	0.0	0.0	0.0	0.0
839.0	62.5°	230.5	68.0	14.7	8.3	6.6	0.0	0.0	0.0	0.0	0.0
618.6	65°	163.1	61.4	16.0	8.8	5.3	0.0	0.0	0.0	0.0	0.0
439.6	67.5°	121.9	56.6	17.6	9.0	2.8	0.0	0.0	0.0	0.0	0.0
275.8	70°	93.4	53.1	21.7	9.6	0.7	0.0	0.0	0.0	0.0	0.0
164.3	72.5°	76.1	49.1	26.3	9.9	0.0	0.0	0.0	0.0	0.0	0.0
98.5	75°	63.1	44.3	25.4	10.8	0.0	0.0	0.0	0.0	0.0	0.0
52.6	77.5°	41.9	34.4	23.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0
18.8	80°	14.7	13.6	18.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0
3.9	82.5°	2.2	1.8	2.6	3.3	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°
10.7	0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
7.5	2.5°	7.5	7.5	7.4	7.5	7.5	7.9	8.8	10.1	11.6	12.1
6.4	5°	6.3	6.1	5.9	5.9	5.9	6.4	7.2	8.6	10.3	11.0
5.3	7.5°	5.1	5.0	4.8	4.6	4.6	5.0	5.9	7.5	9.2	9.9
4.4	10°	4.2	3.9	3.7	3.5	3.5	3.9	4.8	6.4	8.3	9.0
3.7	12.5°	3.5	2.9	2.6	2.4	2.2	2.8	3.7	5.1	7.2	8.1
2.8	15°	2.4	1.8	1.3	1.1	0.9	1.5	2.4	4.0	6.1	7.2
1.5	17.5°	1.3	0.6	0.2	0.0	0.0	0.4	1.1	2.9	5.0	5.9
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.7	4.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.2	3.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.5
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°
10.7	0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
12.7	2.5°	13.1	12.9	12.5	12.1	12.1	12.1	12.7	13.2	13.8	13.8
11.4	5°	12.1	12.1	11.9	11.6	11.6	11.8	12.5	13.4	14.2	14.3
10.5	7.5°	11.2	11.6	11.2	11.0	11.2	11.4	12.1	13.2	14.3	14.7
9.7	10°	10.7	10.8	10.8	10.7	10.7	11.0	11.8	13.2	14.7	15.3
8.8	12.5°	9.9	10.3	10.1	10.1	10.1	10.5	11.4	13.1	15.1	15.8
7.9	15°	9.2	9.7	9.7	9.6	9.6	9.7	11.0	12.9	15.6	16.9
6.8	17.5°	8.5	9.0	9.2	8.8	8.8	9.2	10.5	12.9	16.0	18.2
5.5	20°	7.0	7.9	8.5	7.9	7.9	8.3	9.6	12.1	16.2	19.5
4.0	22.5°	5.5	6.4	7.2	7.0	7.0	7.2	8.8	11.6	16.4	21.7
2.4	25°	4.0	5.0	5.5	5.9	5.9	6.4	8.1	11.2	17.1	26.3
1.1	27.5°	2.4	3.5	4.2	4.6	4.8	5.5	7.5	10.8	18.4	32.9
0.0	30°	1.1	2.0	2.9	3.7	3.7	5.0	7.0	10.5	20.0	42.5
0.0	32.5°	0.0	0.9	1.5	2.6	2.8	4.0	6.4	10.1	22.4	51.7
0.0	35°	0.0	0.0	0.7	2.0	2.0	3.3	5.9	9.7	26.1	58.6
0.0	37.5°	0.0	0.0	0.0	1.5	1.7	2.9	5.7	9.6	26.8	59.2
0.0	40°	0.0	0.0	0.0	1.1	1.3	2.8	5.7	9.7	24.3	57.9
0.0	42.5°	0.0	0.0	0.0	0.7	0.9	2.8	5.7	10.1	21.9	59.4
0.0	45°	0.0	0.0	0.0	0.6	0.7	2.9	5.5	9.9	20.6	67.1
0.0	47.5°	0.0	0.0	0.0	0.7	1.1	2.9	5.3	9.7	20.8	92.7
0.0	50°	0.0	0.0	0.0	0.9	1.3	2.9	5.5	9.4	22.8	142.5
0.0	52.5°	0.0	0.0	0.0	0.7	1.1	3.3	6.1	9.2	24.8	185.3
0.0	55°	0.0	0.0	0.0	0.2	0.6	4.2	6.6	9.2	27.9	196.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	4.8	7.5	9.7	33.1	191.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	4.8	7.7	9.7	33.5	188.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	4.8	8.5	10.8	36.0	167.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	4.0	10.1	13.6	37.5	131.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	3.3	11.9	14.9	38.6	104.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	3.1	12.3	15.1	39.2	83.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	3.3	12.1	16.2	41.0	67.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	3.7	11.0	17.8	41.0	60.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	3.9	10.3	20.0	37.3	52.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	3.7	10.1	23.3	33.3	42.8
0.0	80°	0.4	0.6	0.6	0.4	0.4	3.1	9.9	23.7	28.3	29.4
0.2	82.5°	1.1	1.5	1.3	0.9	0.9	2.8	8.8	19.9	14.7	12.7
1.1	85°	2.0	2.4	2.4	2.0	2.0	2.6	5.5	7.2	5.0	4.0
2.0	87.5°	2.8	3.1	3.1	2.8	2.8	2.6	2.4	2.2	2.0	2.0
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: SP1-2407-184-16

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

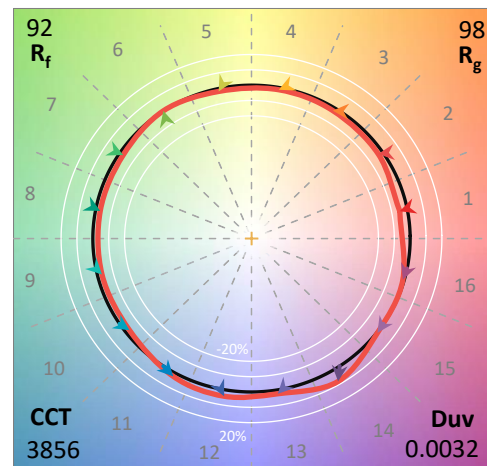
Test Information

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

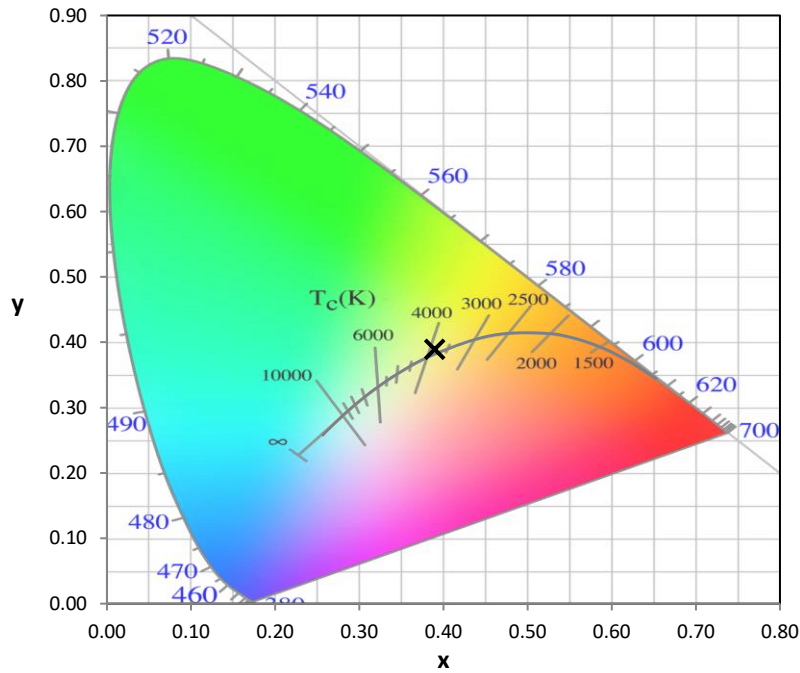
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

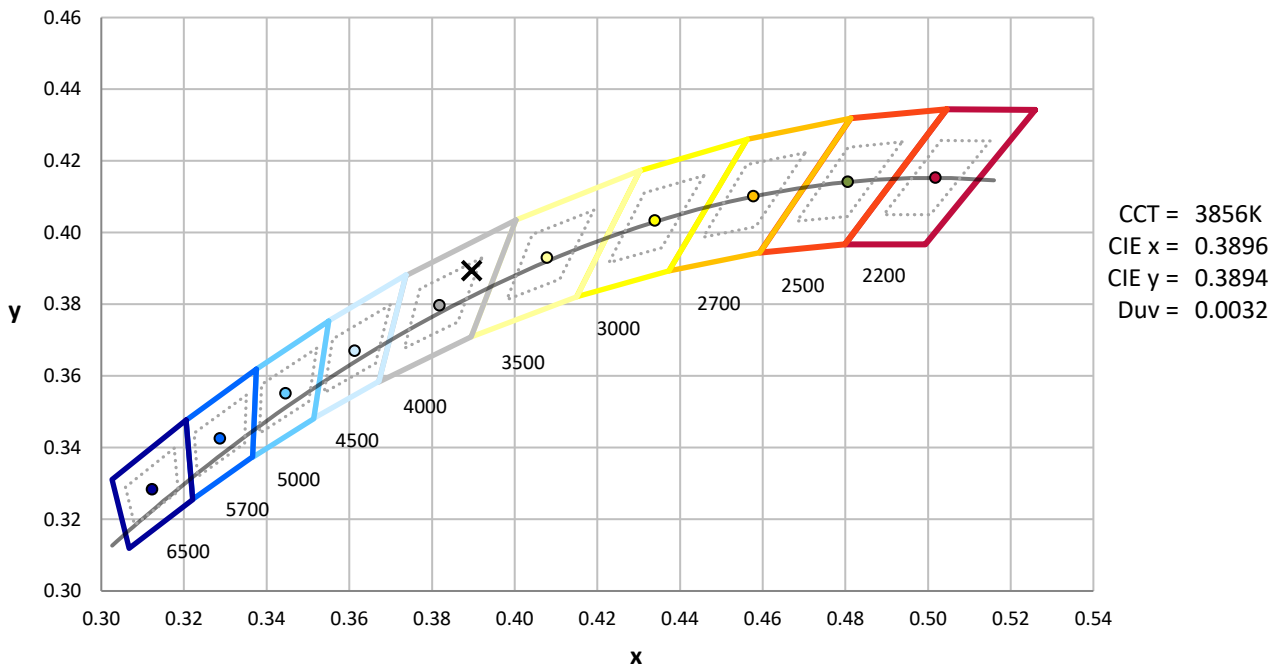
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



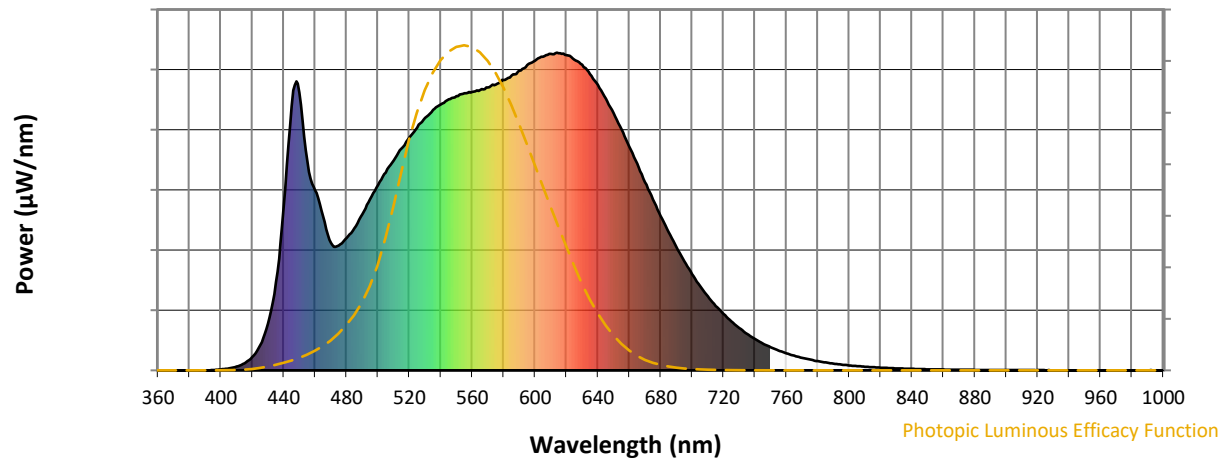
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

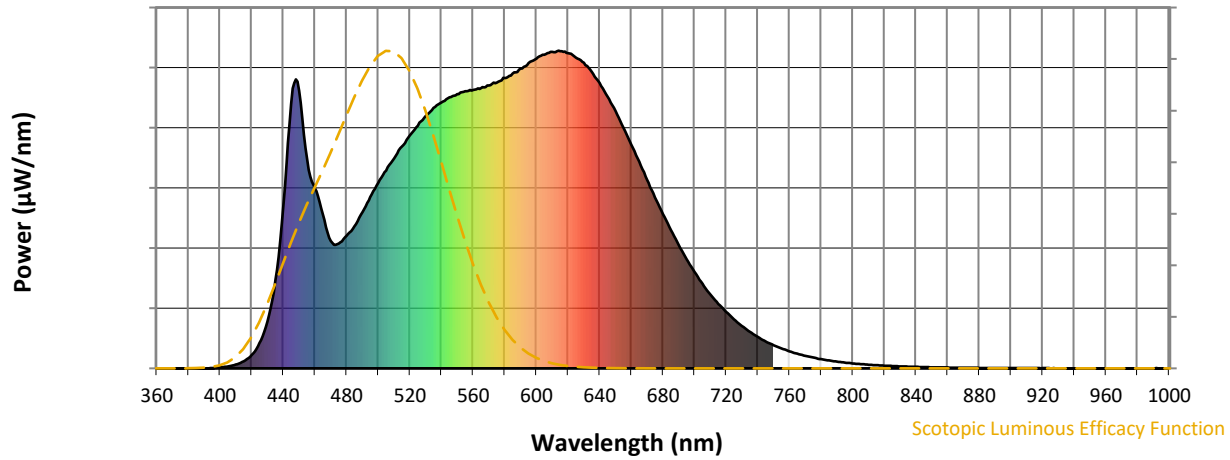


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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



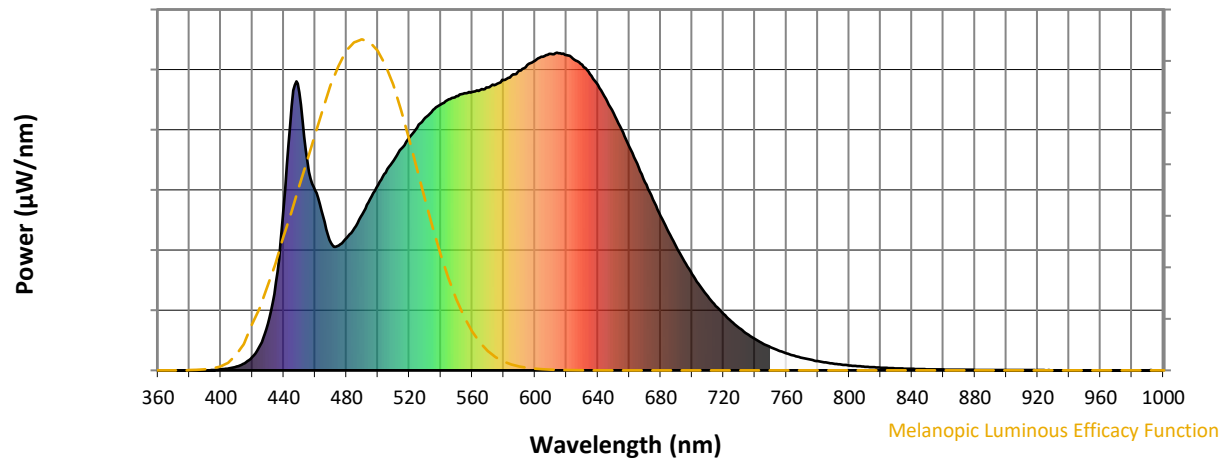
Scotopic Lumens: NR

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

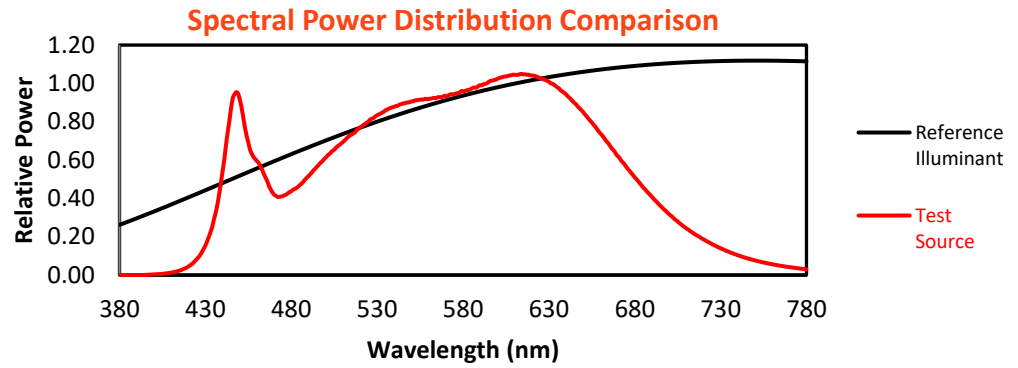
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	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

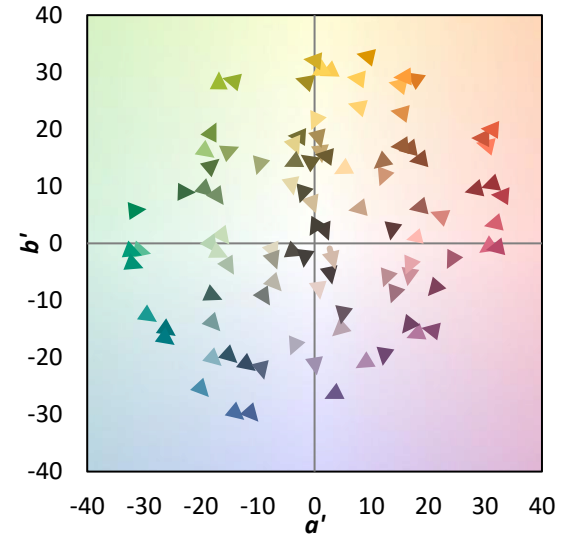
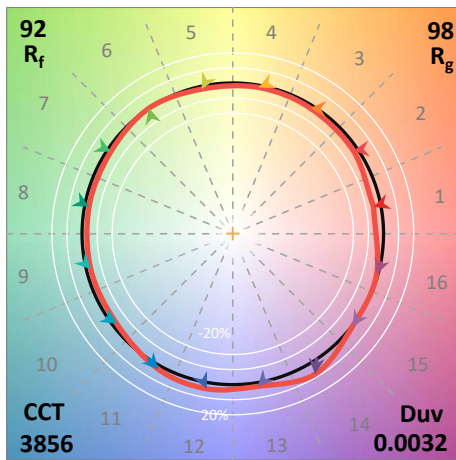
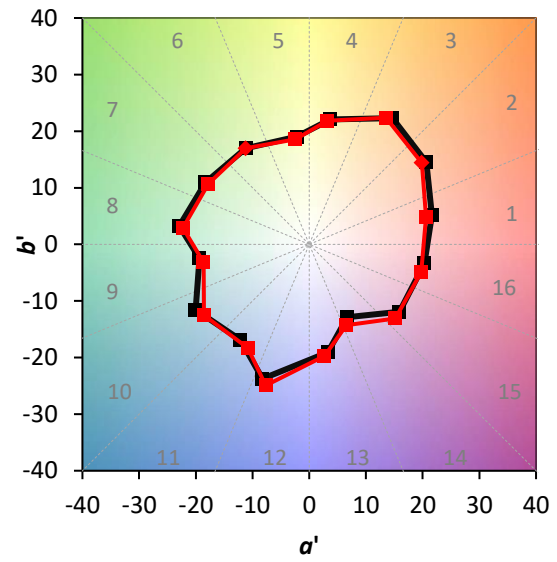
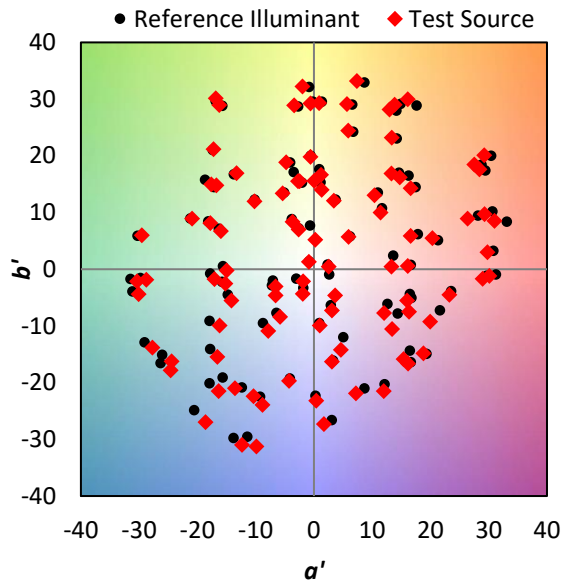
TM-30-18

Summary

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

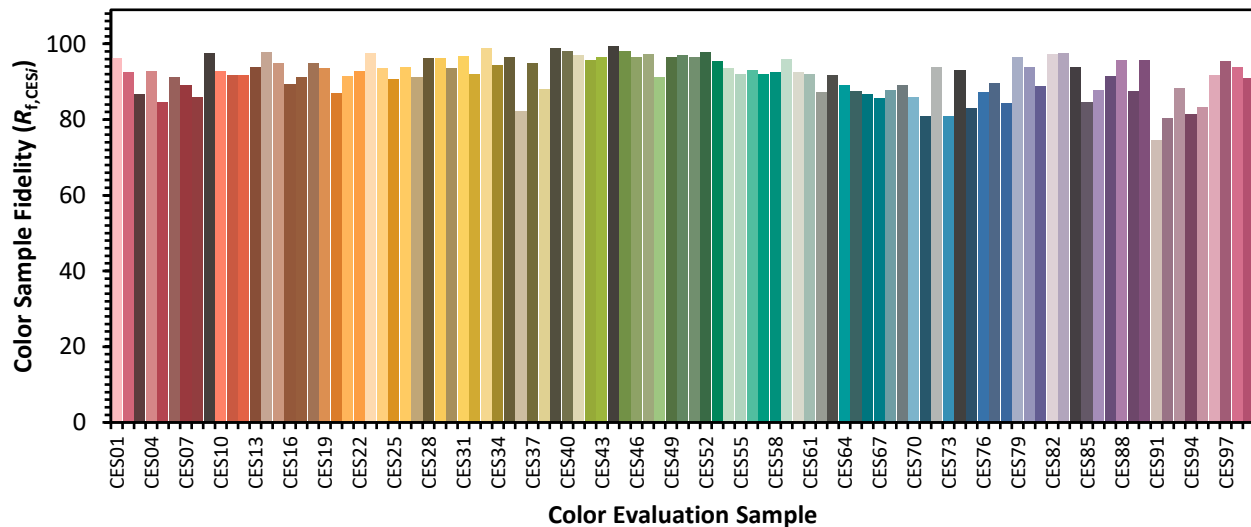


Color Vector Graphics

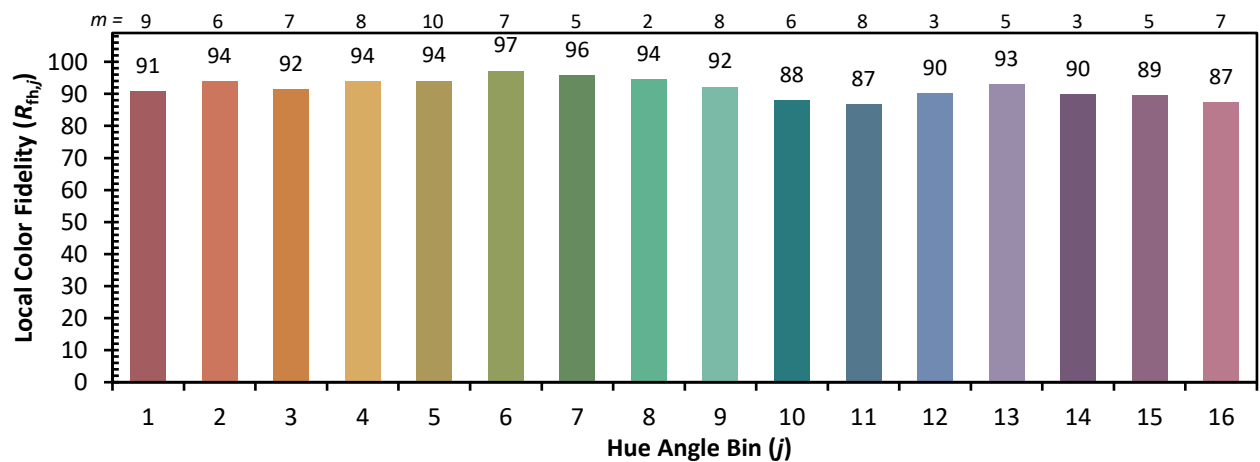
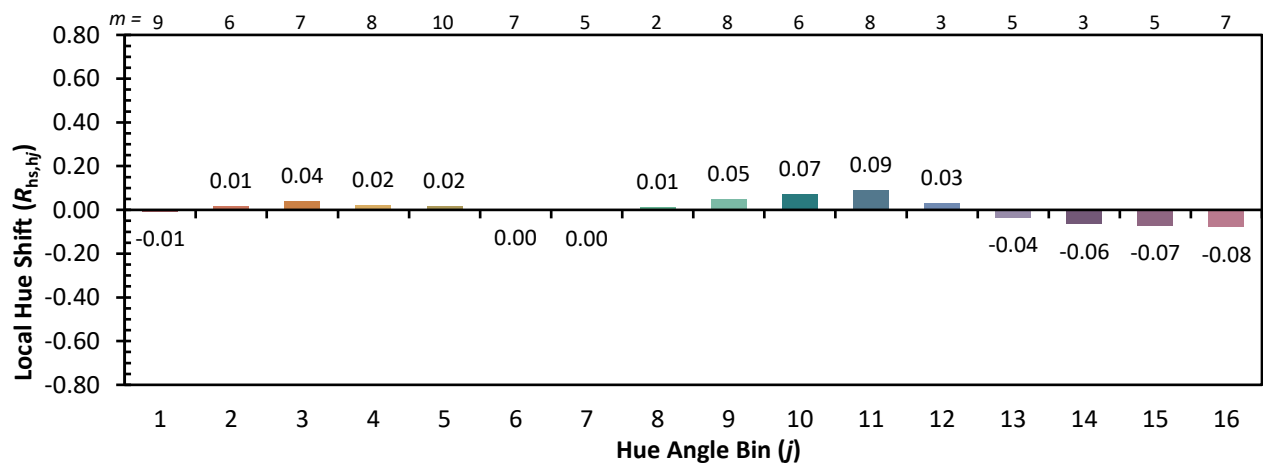
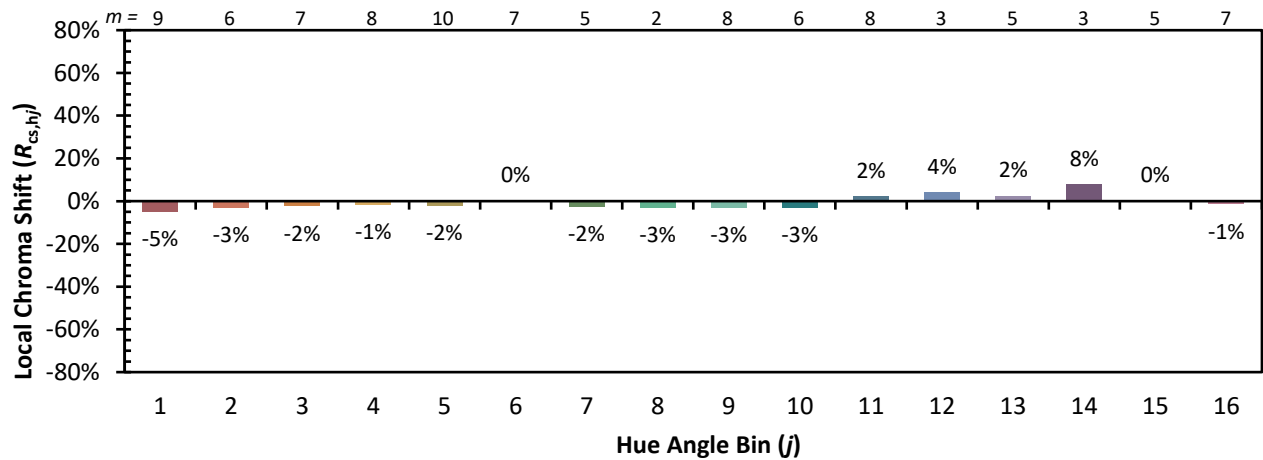


Individual Sample Fidelity Index ($R_{f,i}$)

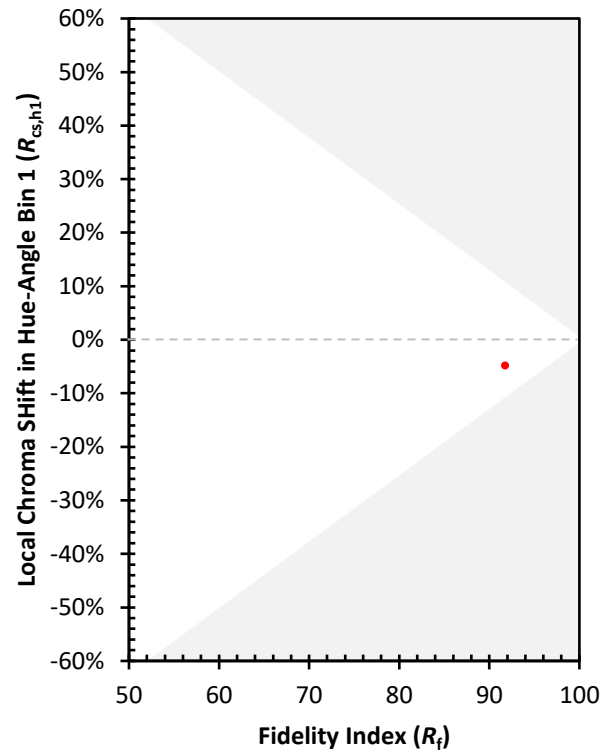
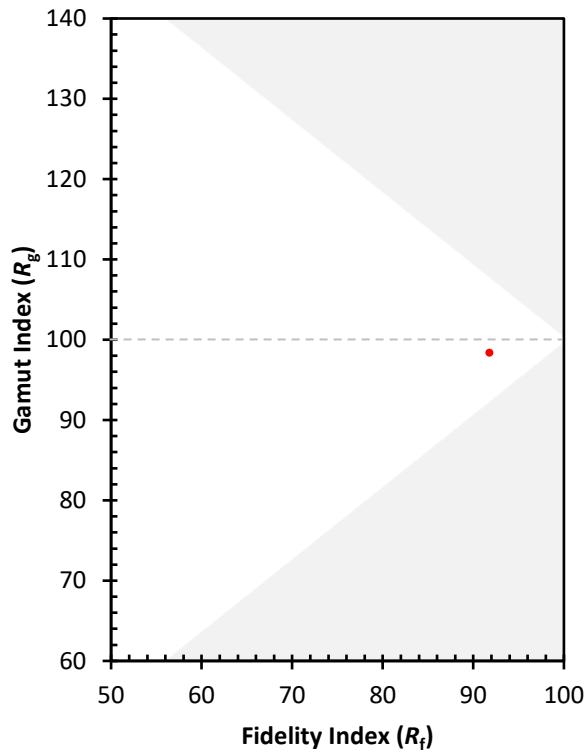
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 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)