

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: STREETWORKS

Report Number: P1065647

Luminaire Tested: **GLAN-SA3C-940-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065647
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3C-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11315.1 lumens
Efficiency: N/A
Efficacy: 80.6 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): 140.4
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

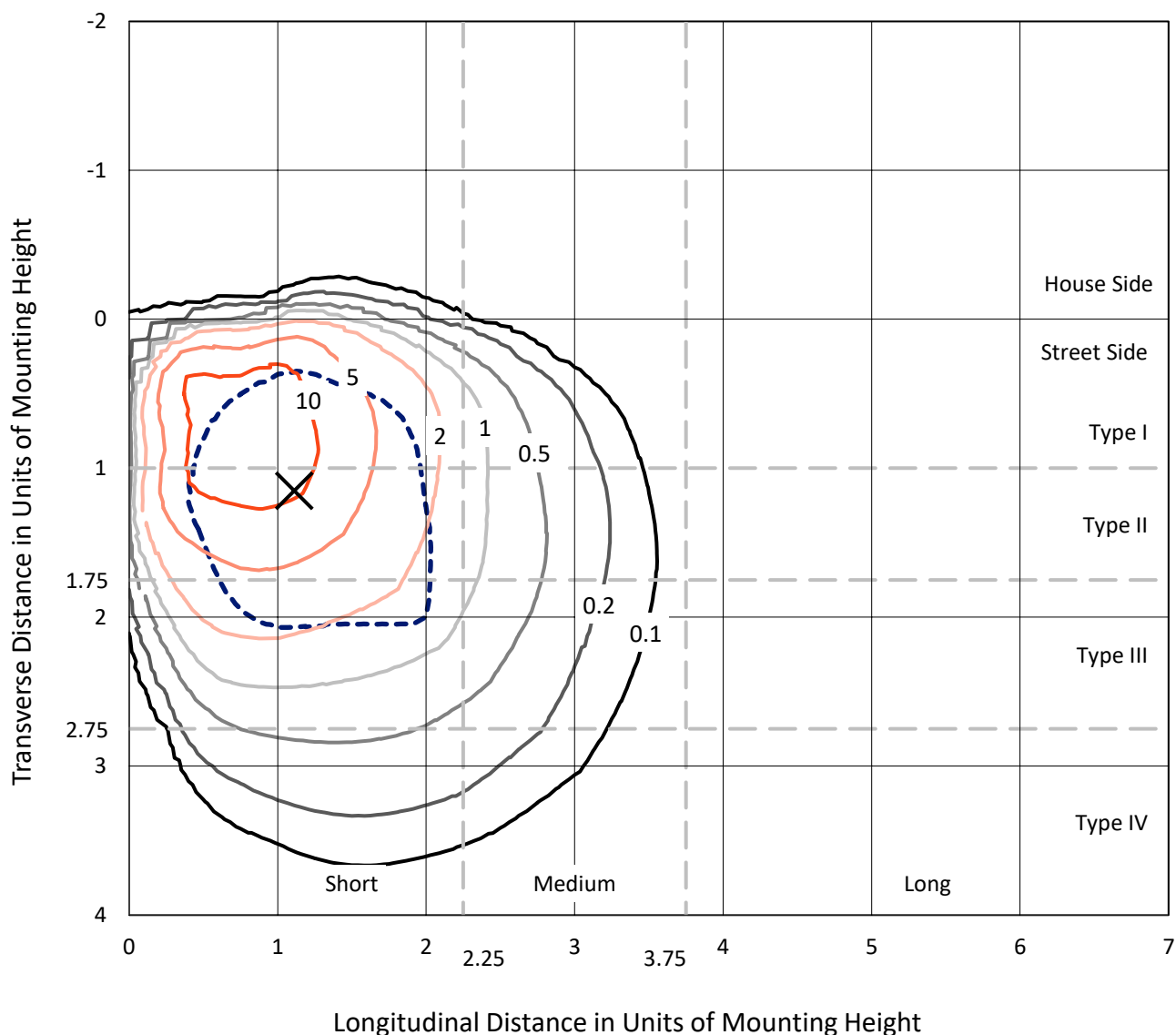
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

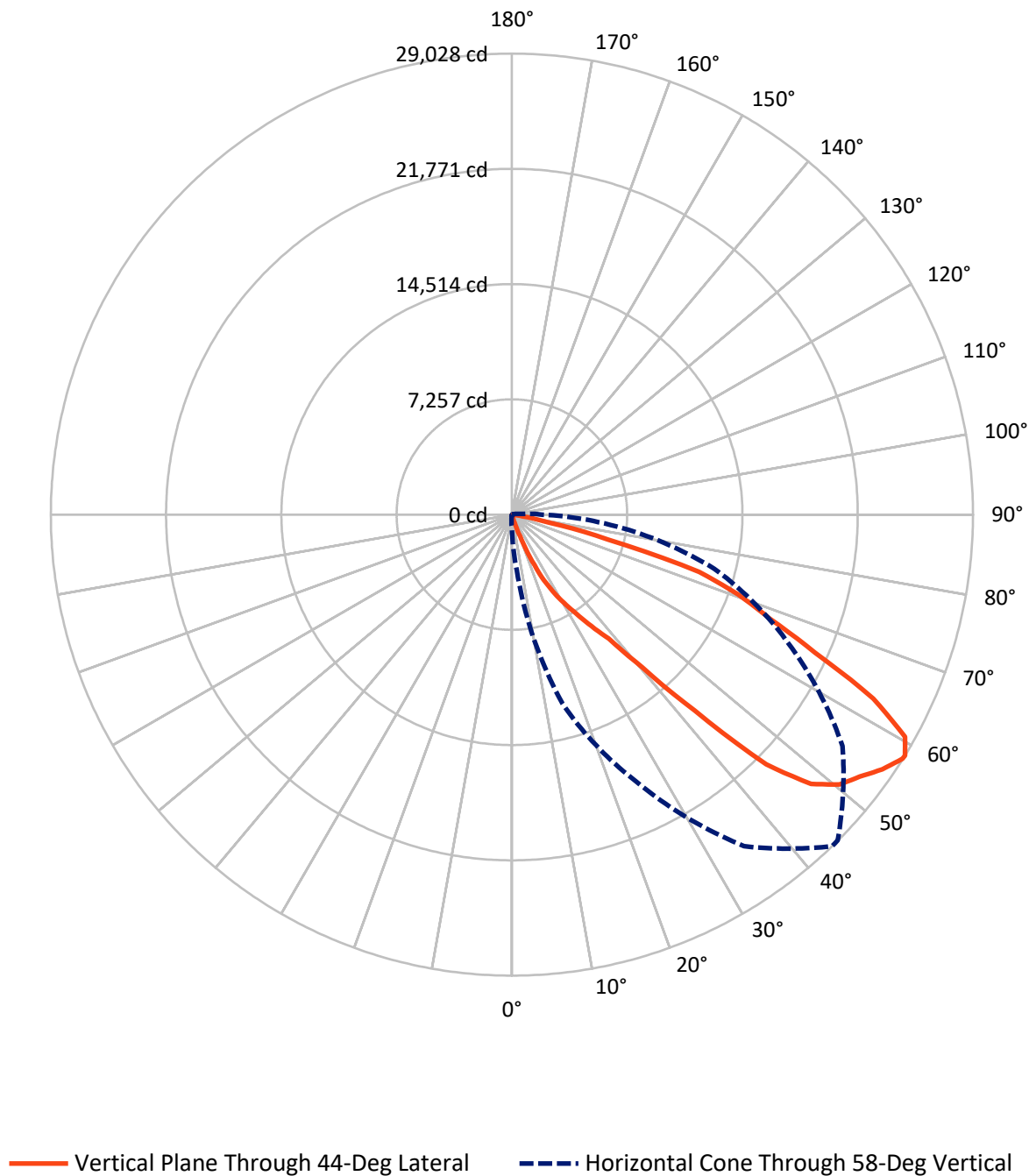


Based on 20 foot mounting height. Maximum calculated value = 19.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	77.3	0.0	77.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	11237.8	0.0	11237.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	11315.1	0.0	11315.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.0
10°-20°	24.8	0.2
20°-30°	268.1	2.4
30°-40°	792.7	7.0
40°-50°	2362.8	20.9
50°-60°	3749.1	33.1
60°-70°	3127.2	27.6
70°-80°	964.5	8.5
80°-90°	21.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11315.1	100.0
0°-180°	11315.1	100.0

Coefficient of Utilization



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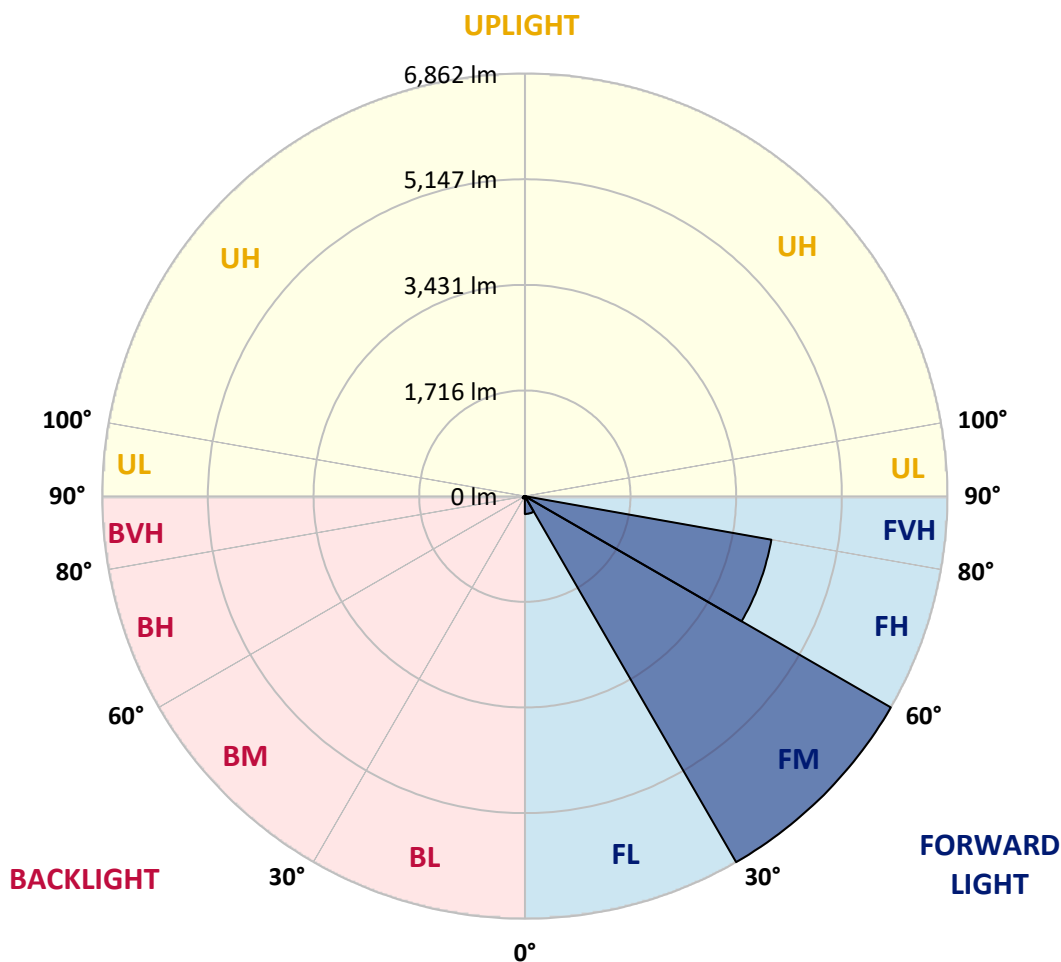
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.7	2.6			
FM	(30°-60°)	6862.4	60.6			
FH	(60°-80°)	4065.3	35.9			G2/5000
FVH	(80°-90°)	20.4	0.2			G1/100
BL	(0°-30°)	7.6	0.1	B0/110		
BM	(30°-60°)	42.3	0.4	B0/220		
BH	(60°-80°)	26.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	64.1	64.1	61.5	58.1	54.7	51.3	50.4	48.7	47.9	47.0
5°	66.7	66.7	65.8	63.3	59.8	57.3	57.3	54.7	53.0	51.3
7.5°	68.4	69.2	70.9	70.1	68.4	65.8	65.8	64.1	61.5	57.3
10°	70.9	73.5	76.9	78.6	79.5	79.5	78.6	77.8	73.5	67.5
12.5°	73.5	78.6	87.2	95.7	100.9	107.7	106.8	105.1	94.0	81.2
15°	78.6	86.3	104.3	129.1	167.5	191.5	200.9	192.3	155.6	109.4
17.5°	84.6	97.4	151.3	270.1	442.8	524.8	574.4	534.2	353.9	207.7
20°	90.6	118.8	281.2	700.0	1148.8	1417.2	1491.6	1375.3	883.0	395.8
22.5°	100.9	166.7	570.1	1447.1	2475.4	2878.0	2954.0	2582.2	1667.6	781.2
25°	122.2	241.9	983.0	2358.3	3694.3	4373.8	4342.2	3855.0	2705.3	1247.9
27.5°	153.0	352.2	1486.4	3350.6	4861.9	5461.0	5532.8	4930.2	3606.2	1835.2
30°	197.4	488.1	2026.6	4145.6	5797.8	6445.7	6457.7	5834.6	4412.3	2350.6
32.5°	240.2	616.3	2499.3	4914.0	6720.1	7430.4	7483.4	6716.7	5014.0	2887.4
35°	272.7	700.0	2978.0	5589.3	7650.1	8628.8	8625.4	7715.0	5726.9	3366.9
37.5°	275.2	783.8	3411.3	6279.9	8827.9	9923.7	10032.3	9028.8	6588.5	3960.1
40°	269.2	877.8	3960.1	7356.9	10950.3	12631.6	12727.3	11462.3	8316.8	4975.5
42.5°	276.1	1041.1	4850.7	9345.9	14474.5	16889.2	17073.8	15743.8	11493.9	7047.5
45°	312.0	1348.0	6716.7	12673.5	19497.9	22441.7	22380.1	20464.6	15190.8	10201.5
47.5°	430.8	2099.3	9482.7	15912.2	22708.3	25329.9	25382.9	23041.7	17348.2	12626.5
50°	662.4	3212.2	11806.8	17624.2	24088.8	26718.9	26669.3	23964.0	18167.9	13820.6
52.5°	861.6	4017.4	12972.7	18225.1	24265.7	27405.2	27401.8	24206.7	18295.2	13923.1
55°	911.2	4078.0	12982.1	18257.6	24662.3	28303.6	28416.4	24804.2	18460.2	13475.3
57.5°	891.5	3610.5	12440.1	18445.7	25368.4	28998.5	29004.5	25382.9	18879.0	13200.9
58°	874.4	3537.0	12330.7	18552.5	25489.7	29027.6	29013.0	25409.4	19220.1	13190.6
60°	778.7	3071.1	11904.2	18825.2	25309.4	28430.9	28295.0	24830.7	19169.6	13085.5
62.5°	612.0	2395.9	11484.5	18509.8	23375.9	25542.7	25599.1	21983.5	17475.5	12472.6
65°	487.2	1785.6	10609.3	16236.1	19249.1	20975.8	21186.0	17876.4	14586.4	10561.4
67.5°	388.1	1290.7	8899.7	12926.5	15231.8	17506.3	17659.3	15008.7	11300.8	8092.0
70°	315.4	872.7	6143.1	9453.6	12563.2	15120.7	15130.1	12468.3	8434.7	5302.1
72.5°	279.5	604.3	3566.0	6894.5	10187.0	12321.3	12072.6	10117.8	6482.5	3140.4
75°	241.9	400.9	1748.8	4214.8	6176.5	6218.4	6313.2	4693.5	3240.4	1493.3
77.5°	199.2	284.6	688.9	1151.4	1852.3	2371.1	2459.1	1863.4	1077.8	367.5
80°	136.8	135.1	185.5	353.0	529.9	664.1	619.7	479.5	282.1	141.0
82.5°	59.0	64.1	83.8	100.9	82.1	79.5	76.1	48.7	37.6	29.1
85°	18.8	17.1	17.9	17.9	14.5	11.1	11.1	5.1	0.0	0.0
87.5°	9.4	7.7	7.7	6.8	4.3	1.7	0.9	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°
49.6	0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
46.2	2.5°	45.3	45.3	43.6	41.9	41.0	39.3	38.5	37.6	36.8	35.9
49.6	5°	47.9	47.0	44.4	41.9	39.3	36.8	35.0	33.3	31.6	30.8
54.7	7.5°	52.1	50.4	45.3	41.0	37.6	34.2	32.5	29.9	28.2	25.6
60.7	10°	57.3	53.8	47.0	41.9	36.8	32.5	29.9	27.4	24.8	21.4
69.2	12.5°	64.1	58.1	49.6	41.0	35.0	29.9	27.4	23.9	21.4	18.8
80.3	15°	70.1	62.4	50.4	41.0	33.3	27.4	23.9	20.5	17.9	14.5
100.9	17.5°	78.6	65.8	49.6	38.5	30.8	23.9	20.5	17.9	13.7	8.5
149.6	20°	93.2	68.4	47.9	35.9	26.5	19.7	15.4	12.0	6.0	1.7
224.8	22.5°	116.2	75.2	46.2	32.5	23.1	15.4	10.3	4.3	0.0	0.0
341.9	25°	160.7	87.2	46.2	30.8	20.5	11.1	3.4	0.0	0.0	0.0
485.5	27.5°	213.7	103.4	46.2	26.5	16.2	6.0	0.0	0.0	0.0	0.0
661.6	30°	267.5	121.4	46.2	23.1	12.8	0.9	0.0	0.0	0.0	0.0
814.6	32.5°	318.8	136.8	47.0	19.7	8.5	0.0	0.0	0.0	0.0	0.0
1026.6	35°	371.0	139.3	46.2	17.1	5.1	0.0	0.0	0.0	0.0	0.0
1286.4	37.5°	437.6	134.2	43.6	15.4	2.6	0.0	0.0	0.0	0.0	0.0
1692.4	40°	538.5	136.8	41.0	14.5	0.9	0.0	0.0	0.0	0.0	0.0
2416.4	42.5°	724.8	147.9	37.6	14.5	0.0	0.0	0.0	0.0	0.0	0.0
3849.0	45°	1253.1	198.3	34.2	15.4	0.0	0.0	0.0	0.0	0.0	0.0
5778.2	47.5°	2072.8	356.4	33.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0
6960.3	50°	2645.5	448.7	35.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0
7108.2	52.5°	2641.2	500.0	36.8	17.1	3.4	0.0	0.0	0.0	0.0	0.0
6551.7	55°	2348.0	509.4	39.3	18.8	11.1	0.0	0.0	0.0	0.0	0.0
5630.3	57.5°	1962.5	465.0	45.3	23.1	20.5	0.0	0.0	0.0	0.0	0.0
5485.8	58°	1894.1	444.5	47.0	23.9	22.2	0.0	0.0	0.0	0.0	0.0
4758.4	60°	1552.2	362.4	59.8	29.9	29.9	0.0	0.0	0.0	0.0	0.0
3901.1	62.5°	1071.9	316.3	68.4	38.5	30.8	0.0	0.0	0.0	0.0	0.0
2876.3	65°	758.2	285.5	74.4	41.0	24.8	0.0	0.0	0.0	0.0	0.0
2043.7	67.5°	566.7	263.3	82.1	41.9	12.8	0.0	0.0	0.0	0.0	0.0
1282.1	70°	434.2	247.0	100.9	44.4	3.4	0.0	0.0	0.0	0.0	0.0
764.2	72.5°	353.9	228.2	122.2	46.2	0.0	0.0	0.0	0.0	0.0	0.0
458.2	75°	293.2	206.0	118.0	50.4	0.0	0.0	0.0	0.0	0.0	0.0
244.5	77.5°	194.9	159.8	107.7	50.4	0.0	0.0	0.0	0.0	0.0	0.0
87.2	80°	68.4	63.3	83.8	44.4	0.0	0.0	0.0	0.0	0.0	0.0
17.9	82.5°	10.3	8.5	12.0	15.4	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°
49.6	0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
35.0	2.5°	35.0	35.0	34.2	35.0	35.0	36.8	41.0	47.0	53.8	56.4
29.9	5°	29.1	28.2	27.4	27.4	27.4	29.9	33.3	40.2	47.9	51.3
24.8	7.5°	23.9	23.1	22.2	21.4	21.4	23.1	27.4	35.0	42.7	46.2
20.5	10°	19.7	17.9	17.1	16.2	16.2	17.9	22.2	29.9	38.5	41.9
17.1	12.5°	16.2	13.7	12.0	11.1	10.3	12.8	17.1	23.9	33.3	37.6
12.8	15°	11.1	8.5	6.0	5.1	4.3	6.8	11.1	18.8	28.2	33.3
6.8	17.5°	6.0	2.6	0.9	0.0	0.0	1.7	5.1	13.7	23.1	27.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	17.1	21.4
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	10.3	14.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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	2.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8
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°
49.6	0°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
59.0	2.5°	60.7	59.8	58.1	56.4	56.4	56.4	59.0	61.5	64.1	64.1
53.0	5°	56.4	56.4	55.6	53.8	53.8	54.7	58.1	62.4	65.8	66.7
48.7	7.5°	52.1	53.8	52.1	51.3	52.1	53.0	56.4	61.5	66.7	68.4
45.3	10°	49.6	50.4	50.4	49.6	49.6	51.3	54.7	61.5	68.4	70.9
41.0	12.5°	46.2	47.9	47.0	47.0	47.0	48.7	53.0	60.7	70.1	73.5
36.8	15°	42.7	45.3	45.3	44.4	44.4	45.3	51.3	59.8	72.7	78.6
31.6	17.5°	39.3	41.9	42.7	41.0	41.0	42.7	48.7	59.8	74.4	84.6
25.6	20°	32.5	36.8	39.3	36.8	36.8	38.5	44.4	56.4	75.2	90.6
18.8	22.5°	25.6	29.9	33.3	32.5	32.5	33.3	41.0	53.8	76.1	100.9
11.1	25°	18.8	23.1	25.6	27.4	27.4	29.9	37.6	52.1	79.5	122.2
5.1	27.5°	11.1	16.2	19.7	21.4	22.2	25.6	35.0	50.4	85.5	153.0
0.0	30°	5.1	9.4	13.7	17.1	17.1	23.1	32.5	48.7	93.2	197.4
0.0	32.5°	0.0	4.3	6.8	12.0	12.8	18.8	29.9	47.0	104.3	240.2
0.0	35°	0.0	0.0	3.4	9.4	9.4	15.4	27.4	45.3	121.4	272.7
0.0	37.5°	0.0	0.0	0.0	6.8	7.7	13.7	26.5	44.4	124.8	275.2
0.0	40°	0.0	0.0	0.0	5.1	6.0	12.8	26.5	45.3	112.8	269.2
0.0	42.5°	0.0	0.0	0.0	3.4	4.3	12.8	26.5	47.0	101.7	276.1
0.0	45°	0.0	0.0	0.0	2.6	3.4	13.7	25.6	46.2	95.7	312.0
0.0	47.5°	0.0	0.0	0.0	3.4	5.1	13.7	24.8	45.3	96.6	430.8
0.0	50°	0.0	0.0	0.0	4.3	6.0	13.7	25.6	43.6	106.0	662.4
0.0	52.5°	0.0	0.0	0.0	3.4	5.1	15.4	28.2	42.7	115.4	861.6
0.0	55°	0.0	0.0	0.0	0.9	2.6	19.7	30.8	42.7	129.9	911.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	22.2	35.0	45.3	153.9	891.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	22.2	35.9	45.3	155.6	874.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	22.2	39.3	50.4	167.5	778.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	18.8	47.0	63.3	174.4	612.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	15.4	55.6	69.2	179.5	487.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	14.5	57.3	70.1	182.1	388.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	15.4	56.4	75.2	190.6	315.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	17.1	51.3	82.9	190.6	279.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	17.9	47.9	93.2	173.5	241.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	17.1	47.0	108.6	154.7	199.2
0.0	80°	1.7	2.6	2.6	1.7	1.7	14.5	46.2	110.3	131.6	136.8
0.9	82.5°	5.1	6.8	6.0	4.3	4.3	12.8	41.0	92.3	68.4	59.0
5.1	85°	9.4	11.1	11.1	9.4	9.4	12.0	25.6	33.3	23.1	18.8
9.4	87.5°	12.8	14.5	14.5	12.8	12.8	12.0	11.1	10.3	9.4	9.4
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

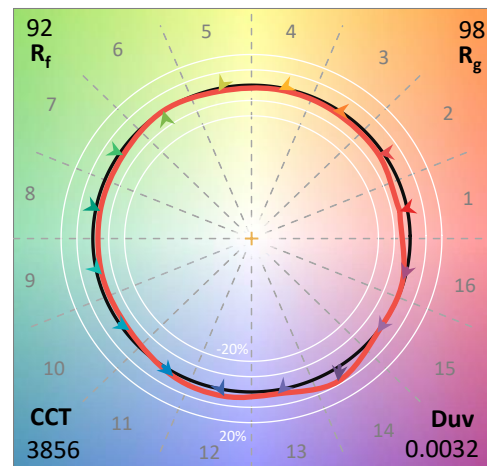
Test Information

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

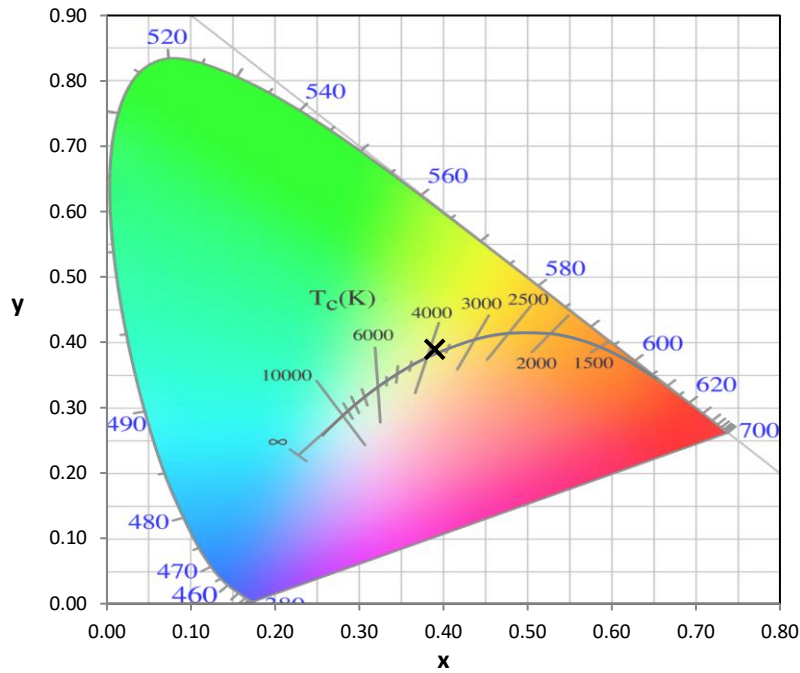
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

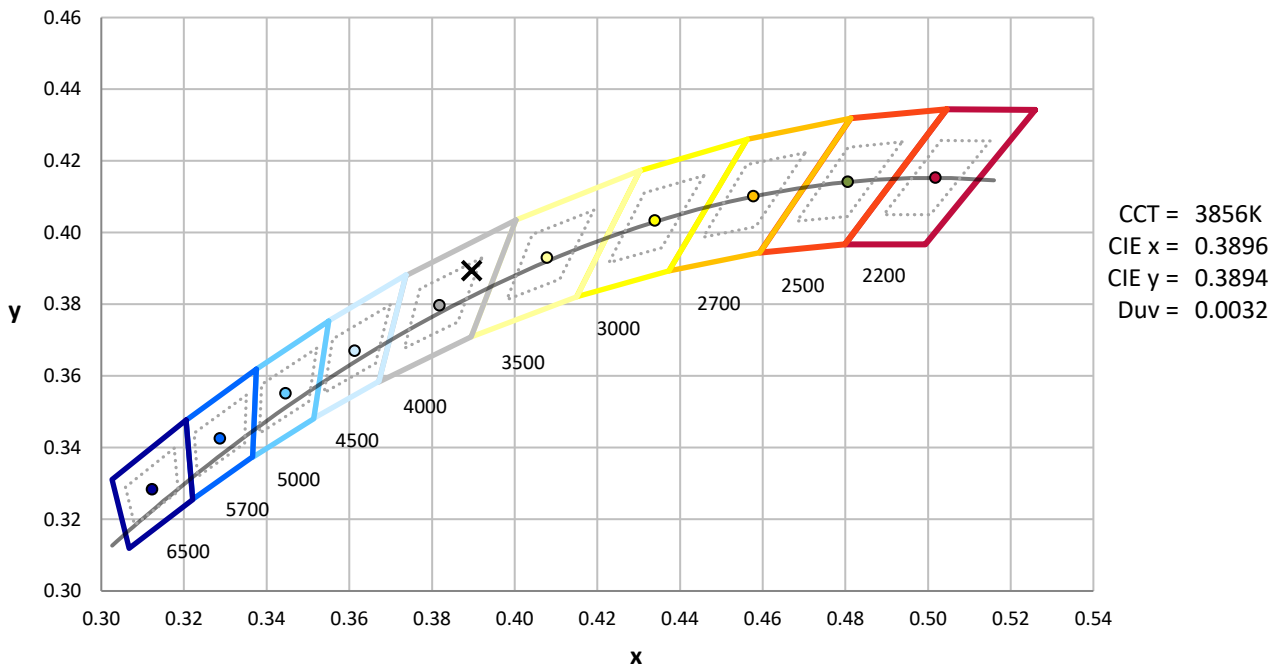
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



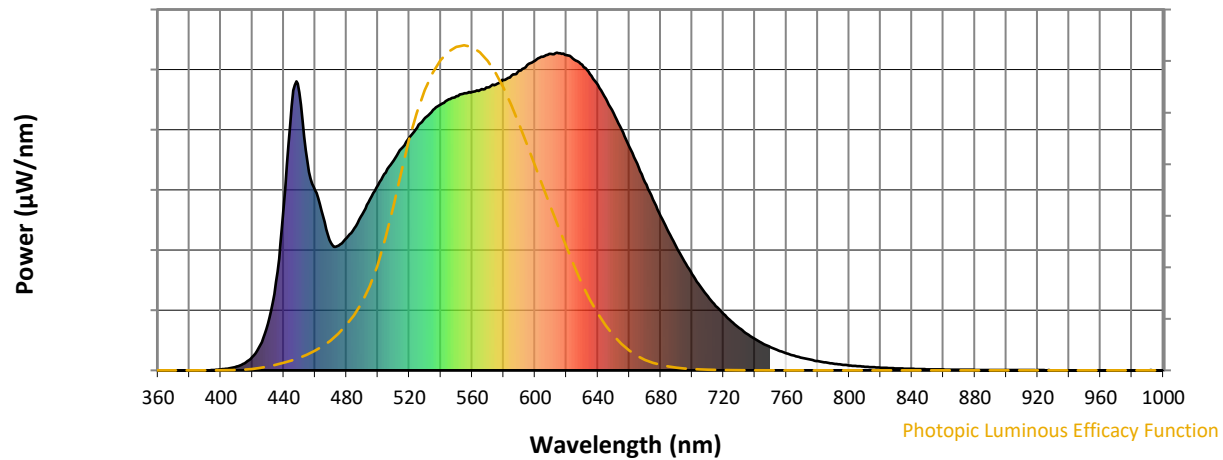
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

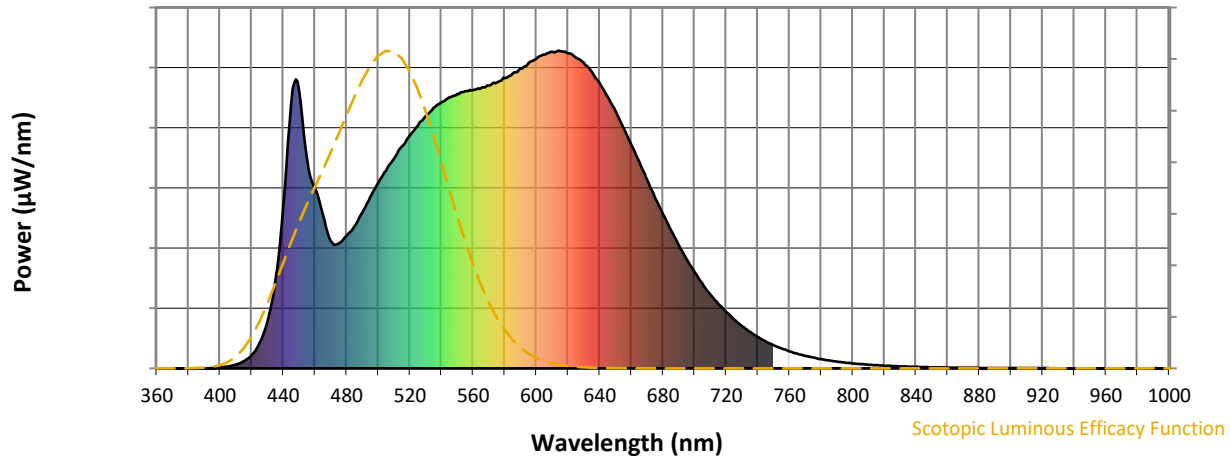


Photopic Lumens: NR

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



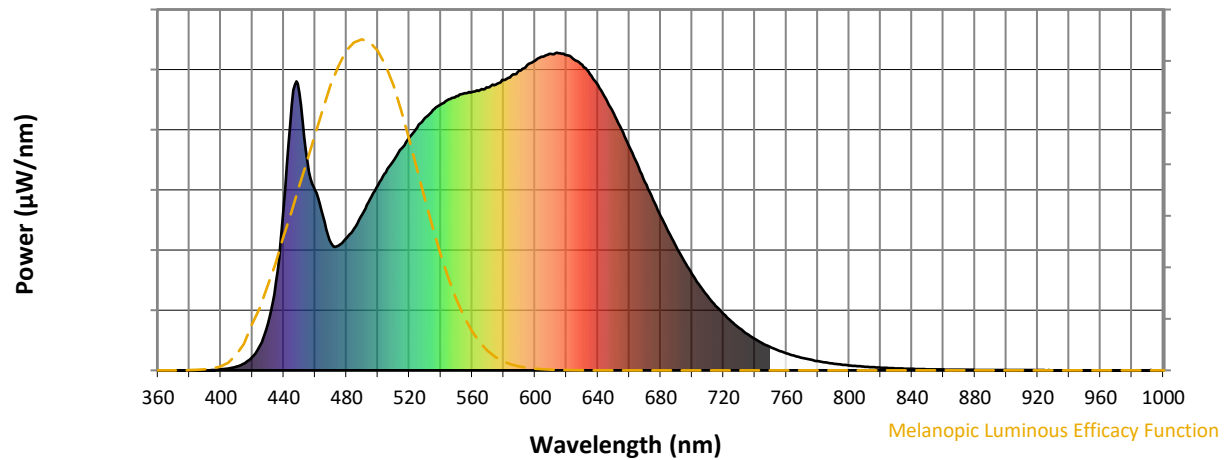
Scotopic Lumens: NR

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

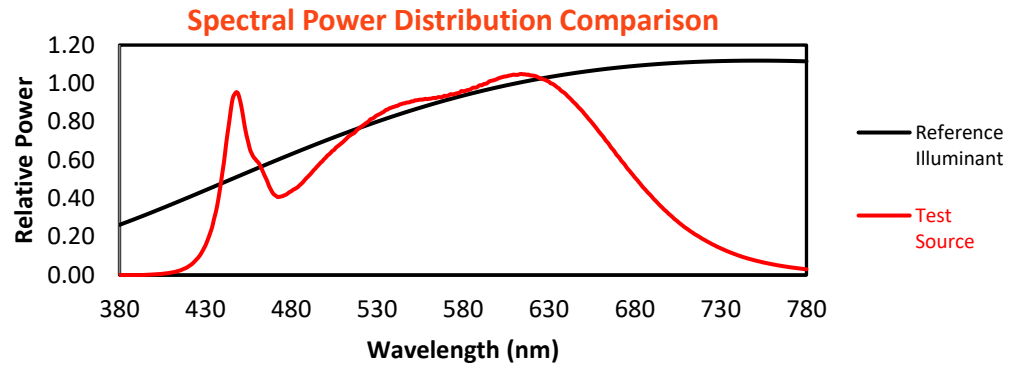
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993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

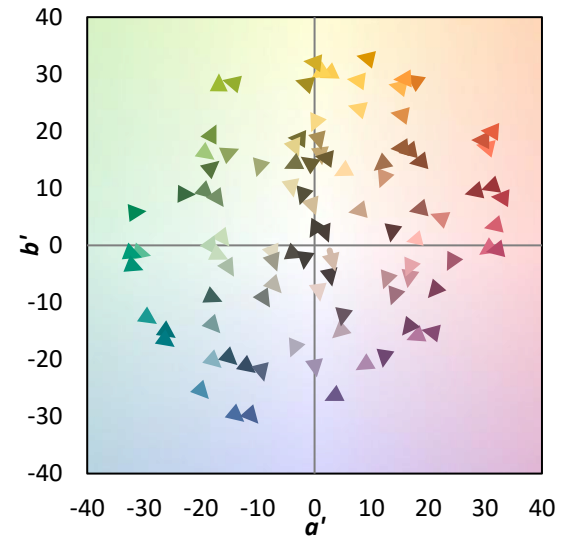
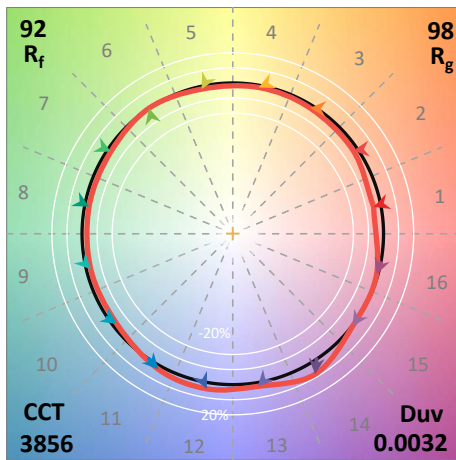
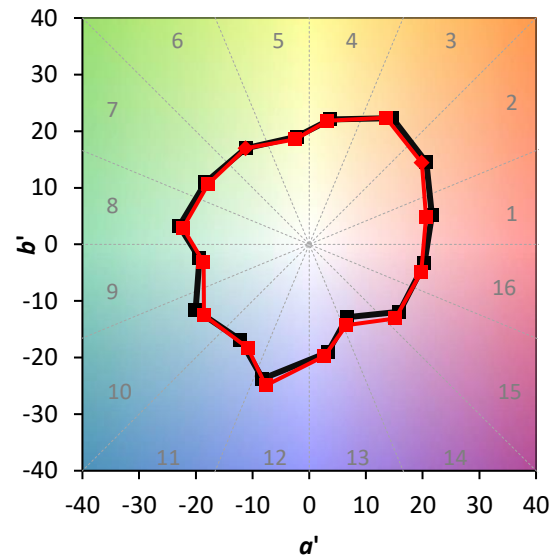
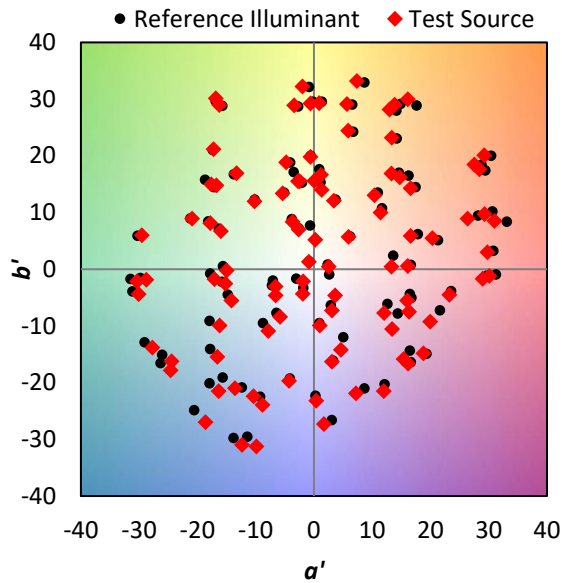
TM-30-18

Summary

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

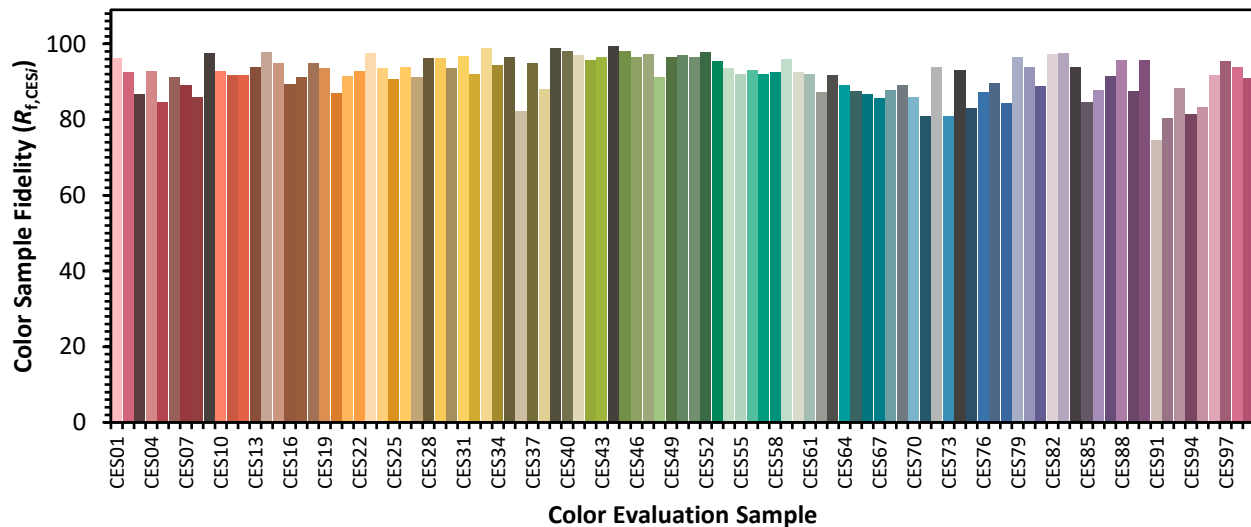


Color Vector Graphics

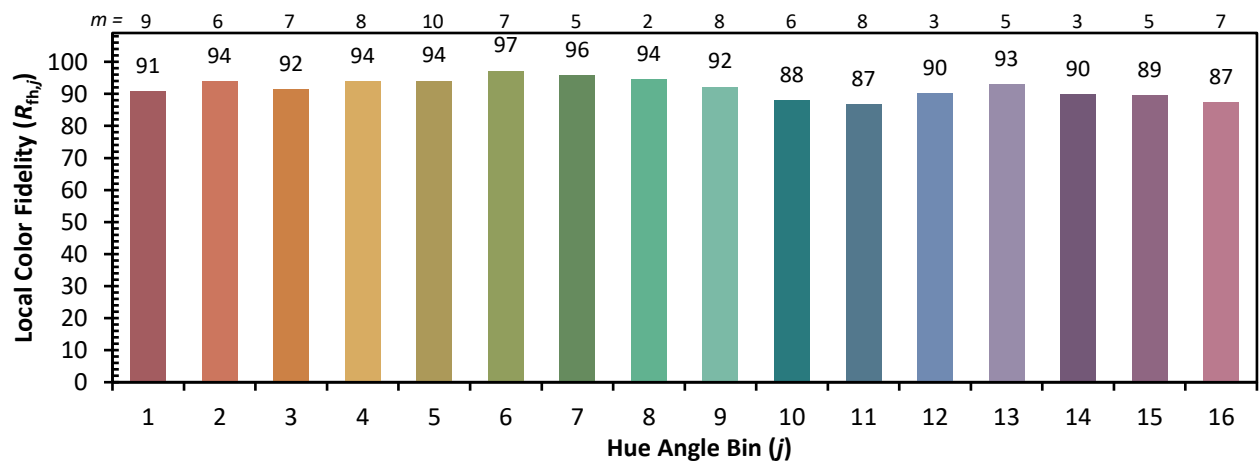
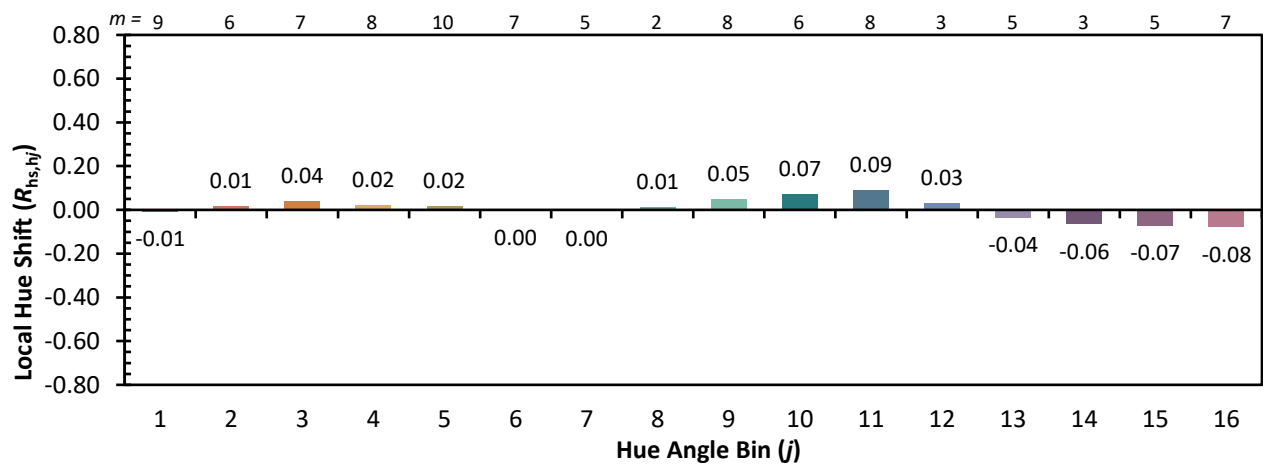
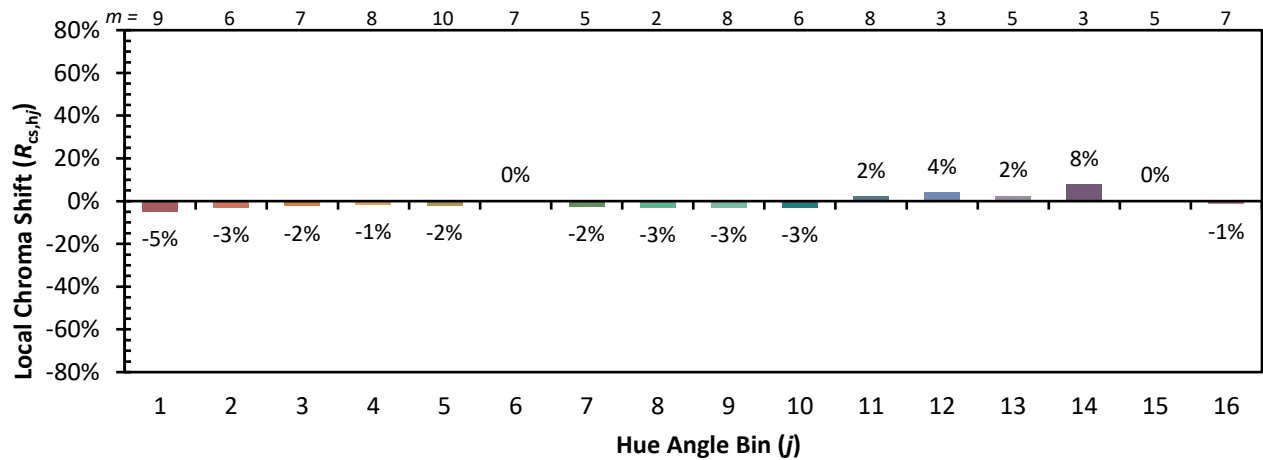


Individual Sample Fidelity Index ($R_{f,i}$)

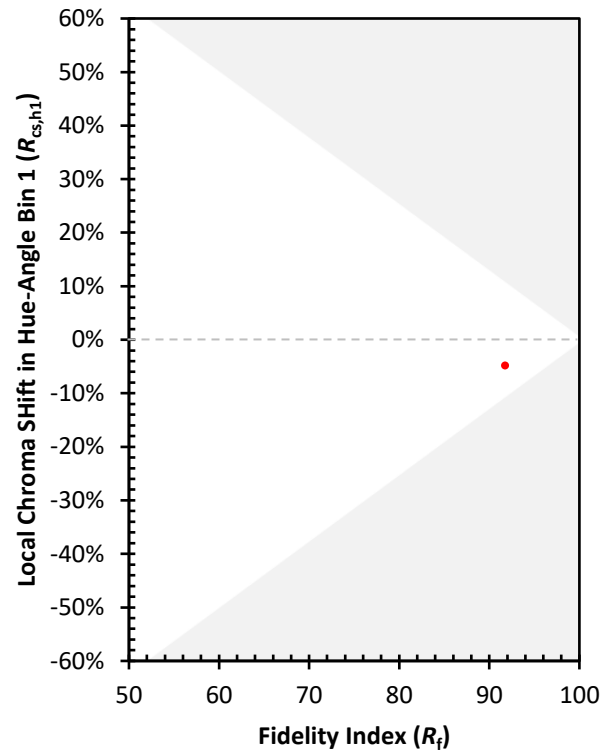
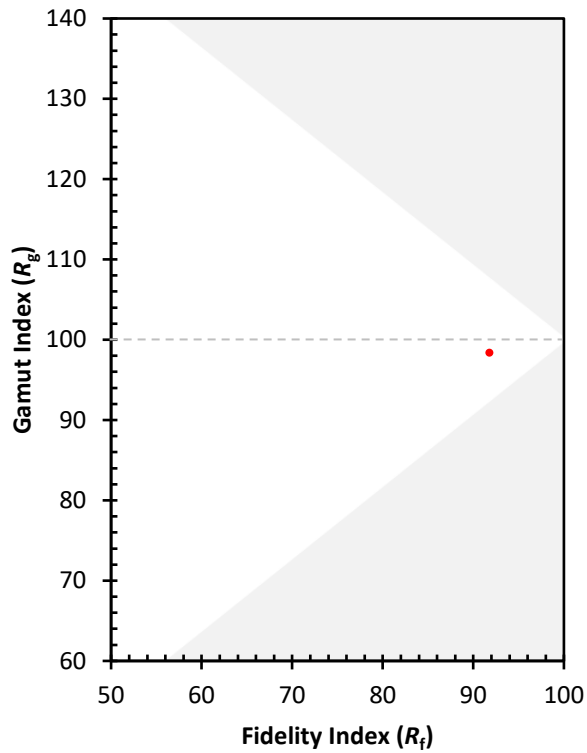
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82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