

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: P1065211

Luminaire Tested: **GLAN-SA2C-730-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065211
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 2xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

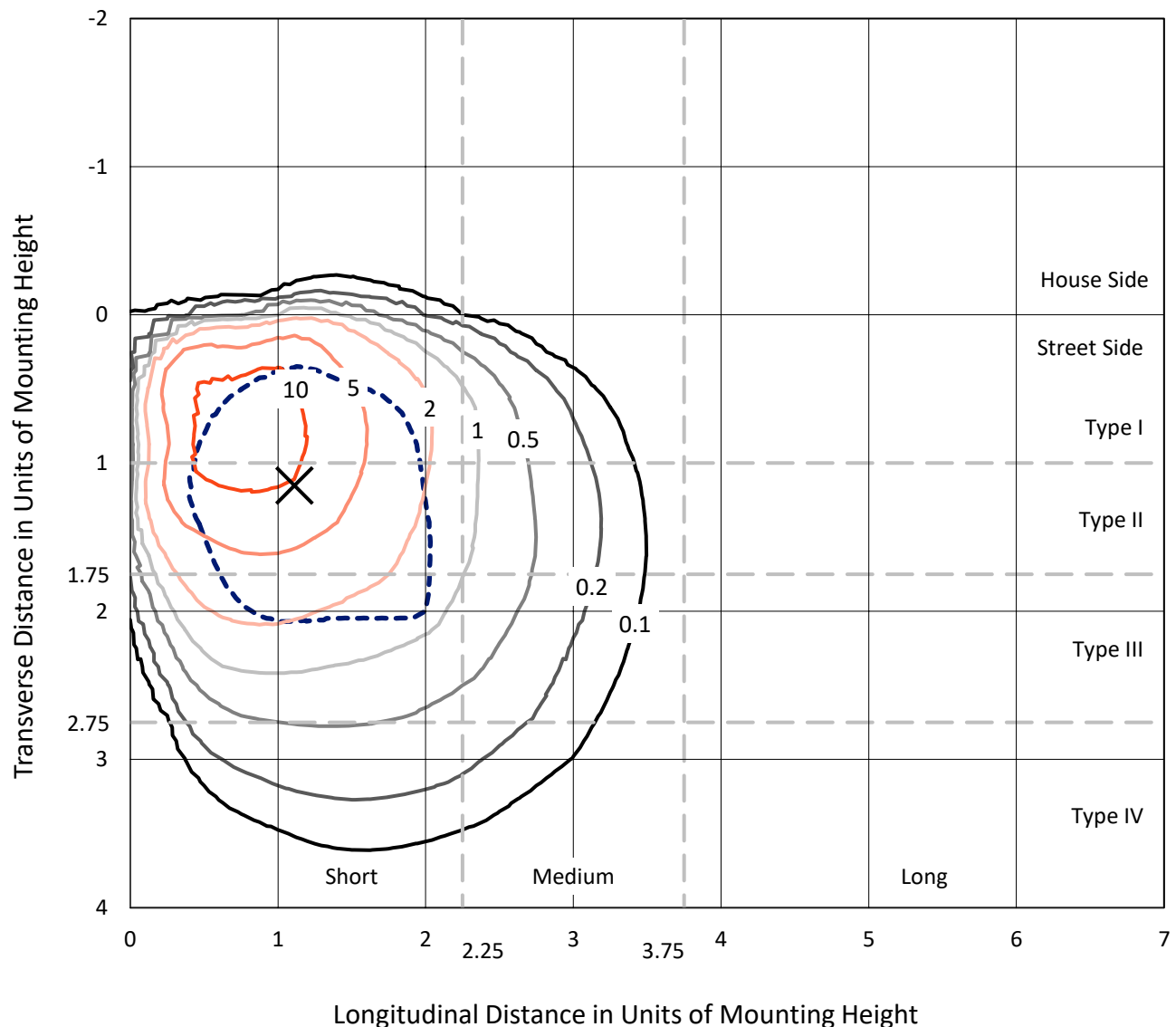
Lumens per Lamp: N/A
Luminaire Lumens: 10058.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 96.2
Input Voltage (V): 120
Input Current (A_{in}): 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

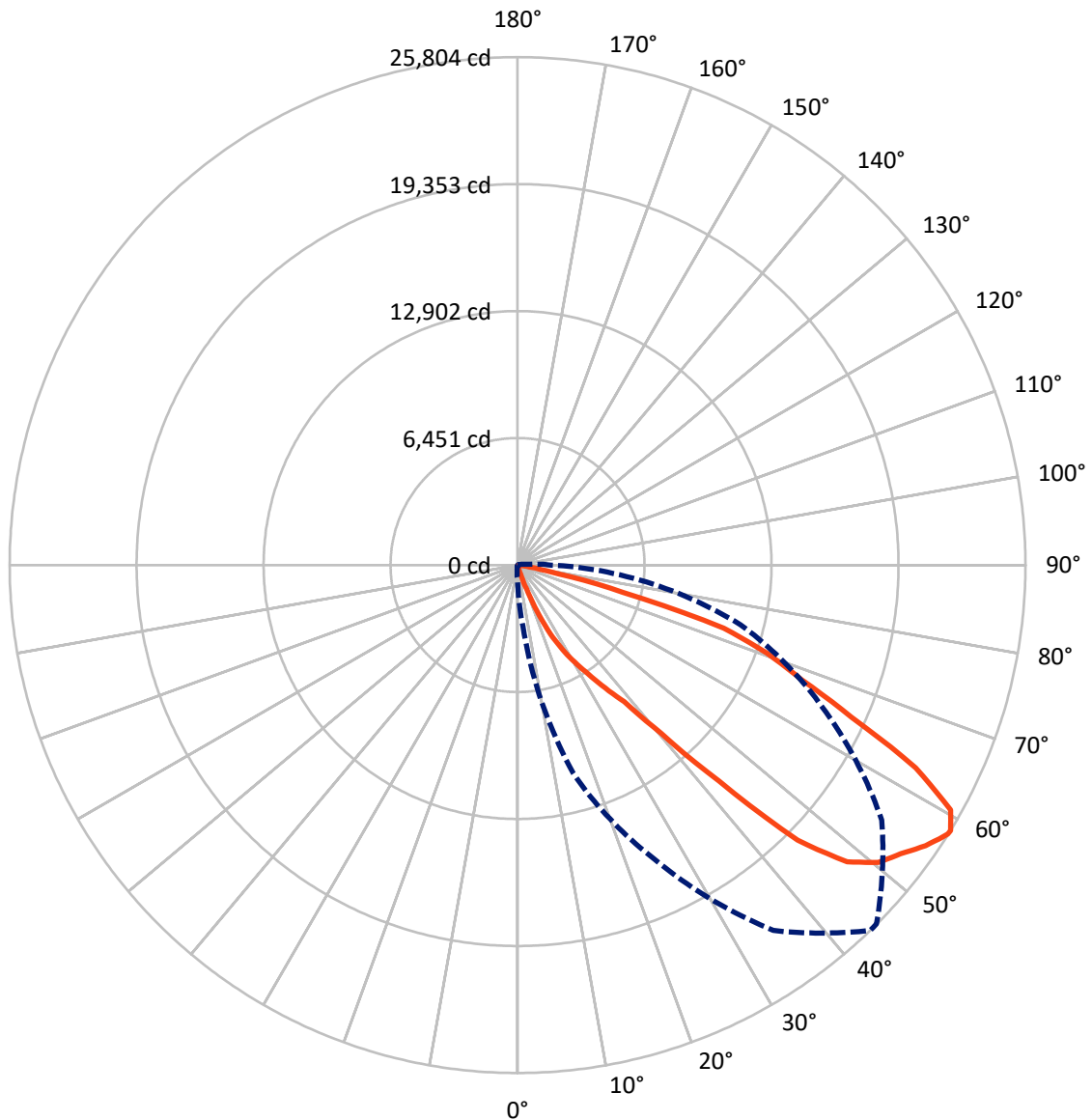
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.7	0.0	68.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9989.7	0.0	9989.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	10058.4	0.0	10058.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.0
10°-20°	22.1	0.2
20°-30°	238.3	2.4
30°-40°	704.7	7.0
40°-50°	2100.4	20.9
50°-60°	3332.8	33.1
60°-70°	2779.9	27.6
70°-80°	857.4	8.5
80°-90°	19.0	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°	10058.4	100.0
0°-180°	10058.4	100.0



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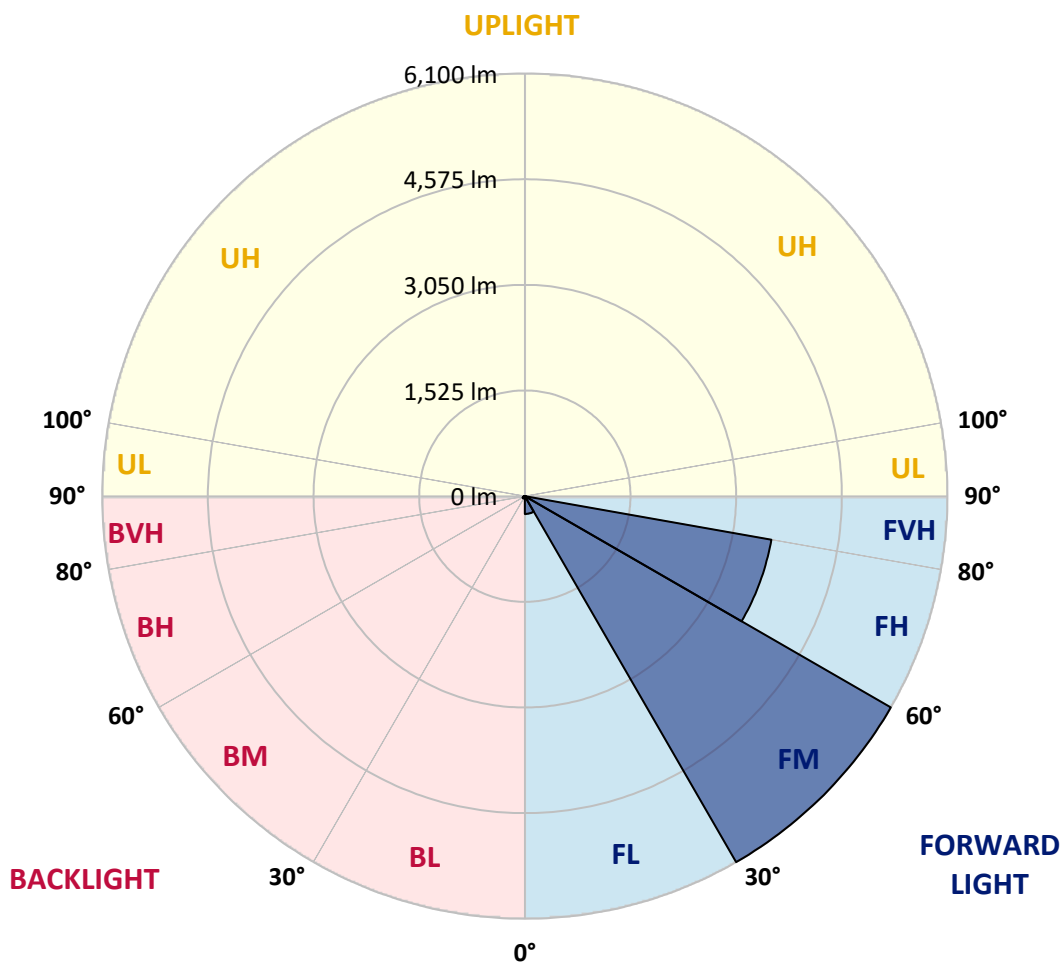
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.6	2.6			
FM	(30°-60°)	6100.2	60.6			
FH	(60°-80°)	3613.8	35.9			G2/5000
FVH	(80°-90°)	18.1	0.2			G1/100
BL	(0°-30°)	6.7	0.1	B0/110		
BM	(30°-60°)	37.6	0.4	B0/220		
BH	(60°-80°)	23.4	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
2.5°	57.0	57.0	54.7	51.7	48.6	45.6	44.8	43.3	42.6	41.8
5°	59.3	59.3	58.5	56.2	53.2	50.9	50.9	48.6	47.1	45.6
7.5°	60.8	61.5	63.1	62.3	60.8	58.5	58.5	57.0	54.7	50.9
10°	63.1	65.3	68.4	69.9	70.7	70.7	69.9	69.1	65.3	60.0
12.5°	65.3	69.9	77.5	85.1	89.7	95.7	95.0	93.5	83.6	72.2
15°	69.9	76.7	92.7	114.7	148.9	170.2	178.6	171.0	138.3	97.3
17.5°	75.2	86.6	134.5	240.1	393.6	466.5	510.6	474.9	314.6	184.6
20°	80.5	105.6	250.0	622.3	1021.2	1259.8	1325.9	1222.6	784.9	351.8
22.5°	89.7	148.2	506.8	1286.4	2200.5	2558.3	2626.0	2295.4	1482.4	694.5
25°	108.7	215.0	873.8	2096.4	3284.0	3888.0	3859.9	3426.8	2404.9	1109.3
27.5°	136.0	313.0	1321.3	2978.5	4321.9	4854.5	4918.4	4382.7	3205.7	1631.3
30°	175.5	433.9	1801.6	3685.2	5153.9	5729.9	5740.5	5186.6	3922.2	2089.5
32.5°	213.5	547.8	2221.7	4368.2	5973.8	6605.2	6652.3	5970.7	4457.1	2566.7
35°	242.4	622.3	2647.2	4968.5	6800.5	7670.5	7667.4	6858.2	5090.8	2993.0
37.5°	244.7	696.8	3032.5	5582.5	7847.5	8821.6	8918.1	8026.1	5856.7	3520.3
40°	239.3	780.3	3520.3	6539.8	9734.1	11228.7	11313.8	10189.3	7393.1	4423.0
42.5°	245.4	925.5	4312.0	8308.0	12866.9	15013.4	15177.6	13995.3	10217.4	6264.8
45°	277.3	1198.2	5970.7	11266.0	17332.4	19949.3	19894.6	18191.8	13503.7	9068.5
47.5°	383.0	1866.1	8429.5	14144.9	20186.3	22516.7	22563.8	20482.7	15421.5	11224.2
50°	588.9	2855.4	10495.5	15666.9	21413.5	23751.4	23707.4	21302.5	16150.1	12285.6
52.5°	765.9	3571.2	11531.9	16201.0	21570.7	24361.6	24358.5	21518.3	16263.3	12376.8
55°	810.0	3625.1	11540.3	16229.9	21923.3	25160.2	25260.5	22049.4	16410.0	11978.7
57.5°	792.5	3209.5	11058.5	16397.1	22550.9	25777.9	25783.2	22563.8	16782.3	11734.8
58°	777.3	3144.2	10961.3	16492.1	22658.8	25803.7	25790.8	22587.4	17085.5	11725.7
60°	692.2	2730.1	10582.1	16734.4	22498.5	25273.4	25152.6	22073.0	17040.6	11632.2
62.5°	544.0	2129.8	10209.0	16454.1	20779.8	22705.9	22756.1	19542.0	15534.7	11087.4
65°	433.1	1587.3	9431.0	14432.9	17111.3	18646.2	18833.1	15891.0	12966.5	9388.4
67.5°	345.0	1147.3	7911.3	11490.9	13540.1	15562.0	15698.0	13341.8	10045.7	7193.3
70°	280.4	775.8	5460.9	8403.7	11167.9	13441.3	13449.7	11083.6	7498.0	4713.2
72.5°	248.5	537.2	3170.0	6128.8	9055.6	10952.9	10731.8	8994.1	5762.5	2791.6
75°	215.0	356.4	1554.6	3746.7	5490.5	5527.7	5612.1	4172.2	2880.5	1327.4
77.5°	177.0	253.0	612.4	1023.5	1646.5	2107.8	2186.0	1656.4	958.1	326.7
80°	121.6	120.1	164.9	313.8	471.1	590.4	550.9	426.3	250.7	125.4
82.5°	52.4	57.0	74.5	89.7	72.9	70.7	67.6	43.3	33.4	25.8
85°	16.7	15.2	16.0	16.0	12.9	9.9	9.9	4.6	0.0	0.0
87.5°	8.4	6.8	6.8	6.1	3.8	1.5	0.8	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°
44.1	0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
41.0	2.5°	40.3	40.3	38.8	37.2	36.5	35.0	34.2	33.4	32.7	31.9
44.1	5°	42.6	41.8	39.5	37.2	35.0	32.7	31.2	29.6	28.1	27.4
48.6	7.5°	46.3	44.8	40.3	36.5	33.4	30.4	28.9	26.6	25.1	22.8
53.9	10°	50.9	47.9	41.8	37.2	32.7	28.9	26.6	24.3	22.0	19.0
61.5	12.5°	57.0	51.7	44.1	36.5	31.2	26.6	24.3	21.3	19.0	16.7
71.4	15°	62.3	55.5	44.8	36.5	29.6	24.3	21.3	18.2	16.0	12.9
89.7	17.5°	69.9	58.5	44.1	34.2	27.4	21.3	18.2	16.0	12.2	7.6
133.0	20°	82.8	60.8	42.6	31.9	23.6	17.5	13.7	10.6	5.3	1.5
199.8	22.5°	103.3	66.9	41.0	28.9	20.5	13.7	9.1	3.8	0.0	0.0
303.9	25°	142.8	77.5	41.0	27.4	18.2	9.9	3.0	0.0	0.0	0.0
431.6	27.5°	190.0	91.9	41.0	23.6	14.4	5.3	0.0	0.0	0.0	0.0
588.1	30°	237.8	107.9	41.0	20.5	11.4	0.8	0.0	0.0	0.0	0.0
724.1	32.5°	283.4	121.6	41.8	17.5	7.6	0.0	0.0	0.0	0.0	0.0
912.6	35°	329.8	123.9	41.0	15.2	4.6	0.0	0.0	0.0	0.0	0.0
1143.5	37.5°	389.0	119.3	38.8	13.7	2.3	0.0	0.0	0.0	0.0	0.0
1504.5	40°	478.7	121.6	36.5	12.9	0.8	0.0	0.0	0.0	0.0	0.0
2148.0	42.5°	644.3	131.5	33.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0
3421.5	45°	1113.9	176.3	30.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0
5136.4	47.5°	1842.6	316.8	29.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0
6187.3	50°	2351.7	398.9	31.2	14.4	0.0	0.0	0.0	0.0	0.0	0.0
6318.7	52.5°	2347.9	444.5	32.7	15.2	3.0	0.0	0.0	0.0	0.0	0.0
5824.1	55°	2087.2	452.9	35.0	16.7	9.9	0.0	0.0	0.0	0.0	0.0
5005.0	57.5°	1744.6	413.3	40.3	20.5	18.2	0.0	0.0	0.0	0.0	0.0
4876.6	58°	1683.8	395.1	41.8	21.3	19.8	0.0	0.0	0.0	0.0	0.0
4230.0	60°	1379.8	322.2	53.2	26.6	26.6	0.0	0.0	0.0	0.0	0.0
3467.9	62.5°	952.8	281.1	60.8	34.2	27.4	0.0	0.0	0.0	0.0	0.0
2556.8	65°	674.0	253.8	66.1	36.5	22.0	0.0	0.0	0.0	0.0	0.0
1816.7	67.5°	503.8	234.0	72.9	37.2	11.4	0.0	0.0	0.0	0.0	0.0
1139.7	70°	386.0	219.6	89.7	39.5	3.0	0.0	0.0	0.0	0.0	0.0
679.3	72.5°	314.6	202.9	108.7	41.0	0.0	0.0	0.0	0.0	0.0	0.0
407.3	75°	260.6	183.1	104.9	44.8	0.0	0.0	0.0	0.0	0.0	0.0
217.3	77.5°	173.2	142.1	95.7	44.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5	80°	60.8	56.2	74.5	39.5	0.0	0.0	0.0	0.0	0.0	0.0
16.0	82.5°	9.1	7.6	10.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
44.1	0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
31.2	2.5°	31.2	31.2	30.4	31.2	31.2	32.7	36.5	41.8	47.9	50.1
26.6	5°	25.8	25.1	24.3	24.3	24.3	26.6	29.6	35.7	42.6	45.6
22.0	7.5°	21.3	20.5	19.8	19.0	19.0	20.5	24.3	31.2	38.0	41.0
18.2	10°	17.5	16.0	15.2	14.4	14.4	16.0	19.8	26.6	34.2	37.2
15.2	12.5°	14.4	12.2	10.6	9.9	9.1	11.4	15.2	21.3	29.6	33.4
11.4	15°	9.9	7.6	5.3	4.6	3.8	6.1	9.9	16.7	25.1	29.6
6.1	17.5°	5.3	2.3	0.8	0.0	0.0	1.5	4.6	12.2	20.5	24.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	15.2	19.0
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.1	12.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1
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°
44.1	0°	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
52.4	2.5°	53.9	53.2	51.7	50.1	50.1	50.1	52.4	54.7	57.0	57.0
47.1	5°	50.1	50.1	49.4	47.9	47.9	48.6	51.7	55.5	58.5	59.3
43.3	7.5°	46.3	47.9	46.3	45.6	46.3	47.1	50.1	54.7	59.3	60.8
40.3	10°	44.1	44.8	44.8	44.1	44.1	45.6	48.6	54.7	60.8	63.1
36.5	12.5°	41.0	42.6	41.8	41.8	41.8	43.3	47.1	53.9	62.3	65.3
32.7	15°	38.0	40.3	40.3	39.5	39.5	40.3	45.6	53.2	64.6	69.9
28.1	17.5°	35.0	37.2	38.0	36.5	36.5	38.0	43.3	53.2	66.1	75.2
22.8	20°	28.9	32.7	35.0	32.7	32.7	34.2	39.5	50.1	66.9	80.5
16.7	22.5°	22.8	26.6	29.6	28.9	28.9	29.6	36.5	47.9	67.6	89.7
9.9	25°	16.7	20.5	22.8	24.3	24.3	26.6	33.4	46.3	70.7	108.7
4.6	27.5°	9.9	14.4	17.5	19.0	19.8	22.8	31.2	44.8	76.0	136.0
0.0	30°	4.6	8.4	12.2	15.2	15.2	20.5	28.9	43.3	82.8	175.5
0.0	32.5°	0.0	3.8	6.1	10.6	11.4	16.7	26.6	41.8	92.7	213.5
0.0	35°	0.0	0.0	3.0	8.4	8.4	13.7	24.3	40.3	107.9	242.4
0.0	37.5°	0.0	0.0	0.0	6.1	6.8	12.2	23.6	39.5	110.9	244.7
0.0	40°	0.0	0.0	0.0	4.6	5.3	11.4	23.6	40.3	100.3	239.3
0.0	42.5°	0.0	0.0	0.0	3.0	3.8	11.4	23.6	41.8	90.4	245.4
0.0	45°	0.0	0.0	0.0	2.3	3.0	12.2	22.8	41.0	85.1	277.3
0.0	47.5°	0.0	0.0	0.0	3.0	4.6	12.2	22.0	40.3	85.9	383.0
0.0	50°	0.0	0.0	0.0	3.8	5.3	12.2	22.8	38.8	94.2	588.9
0.0	52.5°	0.0	0.0	0.0	3.0	4.6	13.7	25.1	38.0	102.6	765.9
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.5	27.4	38.0	115.5	810.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.8	31.2	40.3	136.8	792.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.8	31.9	40.3	138.3	777.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.8	35.0	44.8	148.9	692.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.7	41.8	56.2	155.0	544.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.7	49.4	61.5	159.6	433.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.9	50.9	62.3	161.8	345.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.7	50.1	66.9	169.4	280.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.2	45.6	73.7	169.4	248.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	16.0	42.6	82.8	154.2	215.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.2	41.8	96.5	137.5	177.0
0.0	80°	1.5	2.3	2.3	1.5	1.5	12.9	41.0	98.0	117.0	121.6
0.8	82.5°	4.6	6.1	5.3	3.8	3.8	11.4	36.5	82.1	60.8	52.4
4.6	85°	8.4	9.9	9.9	8.4	8.4	10.6	22.8	29.6	20.5	16.7
8.4	87.5°	11.4	12.9	12.9	11.4	11.4	10.6	9.9	9.1	8.4	8.4
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

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

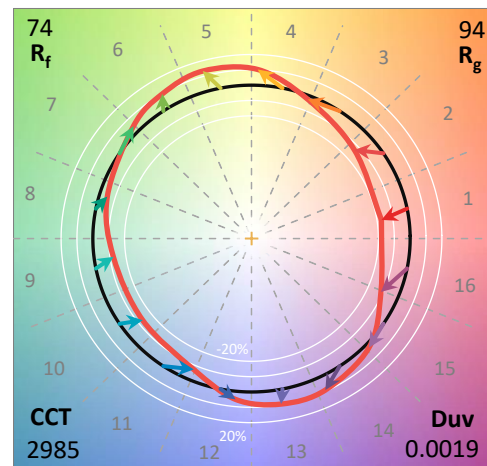
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

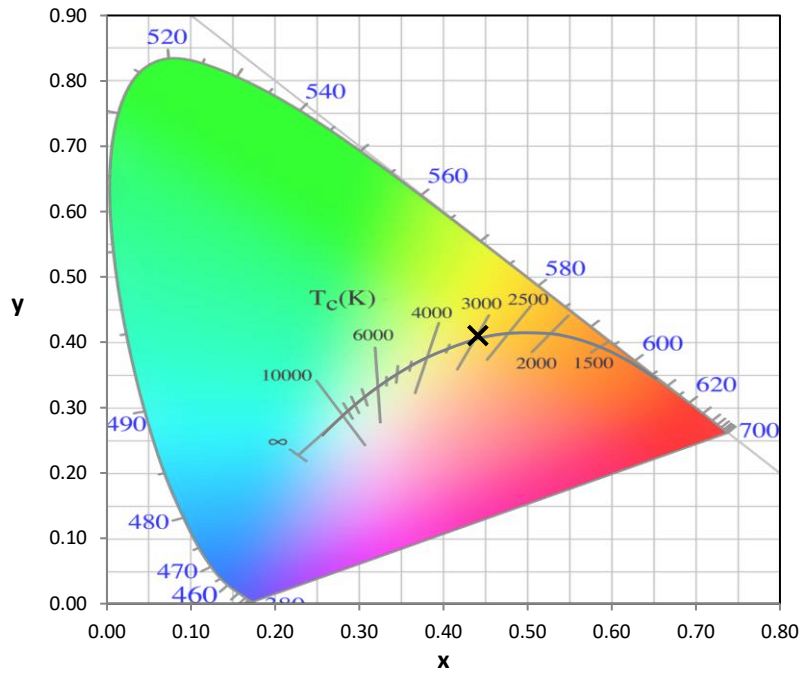
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

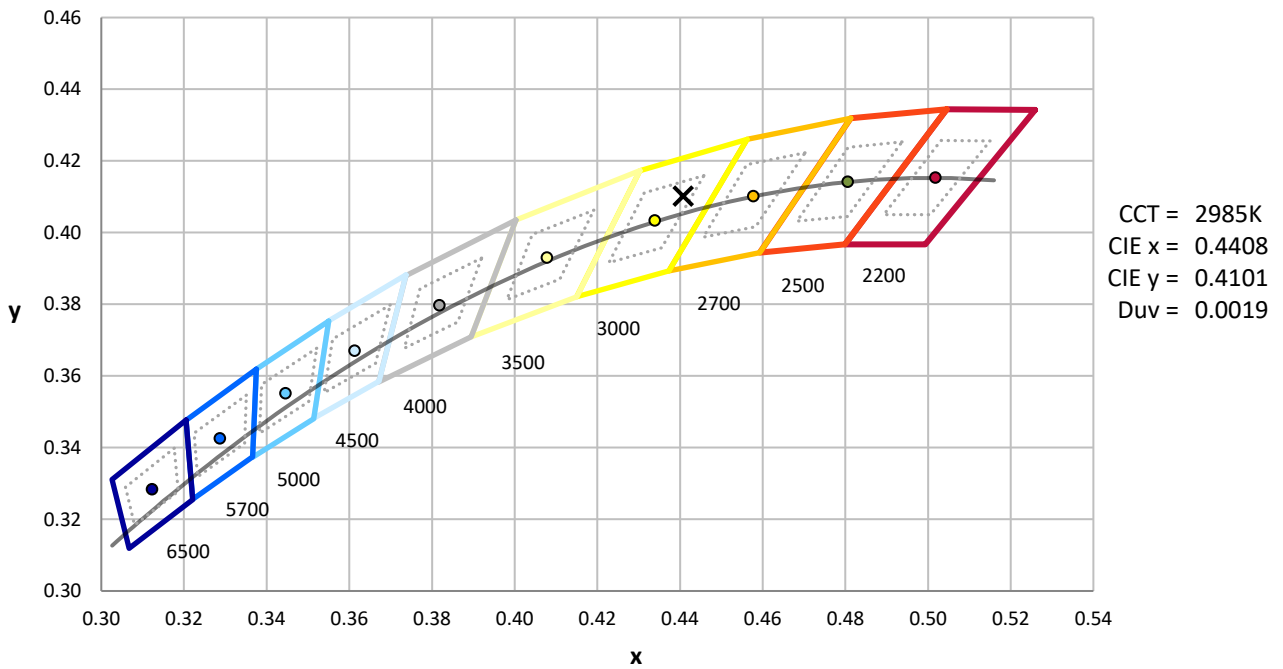
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



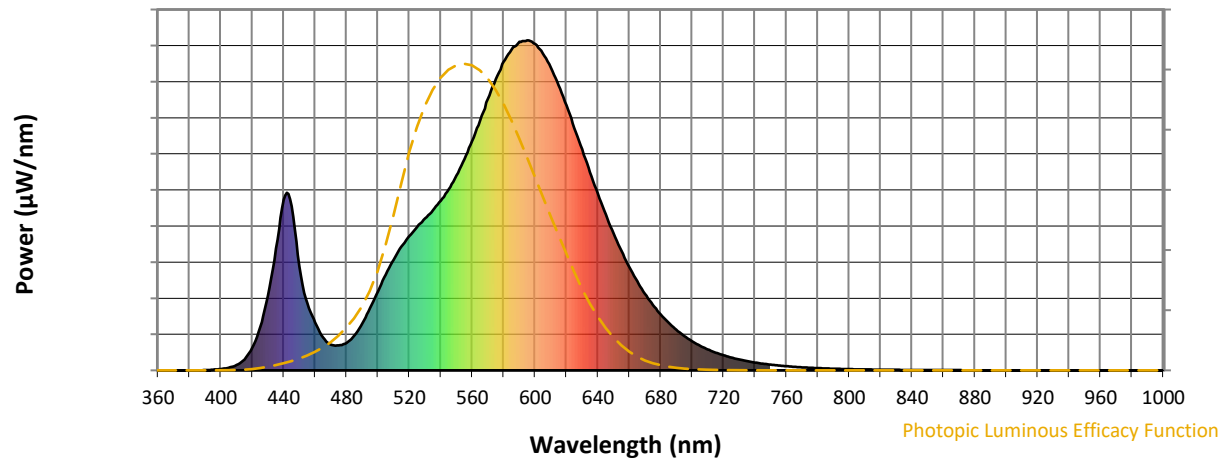
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

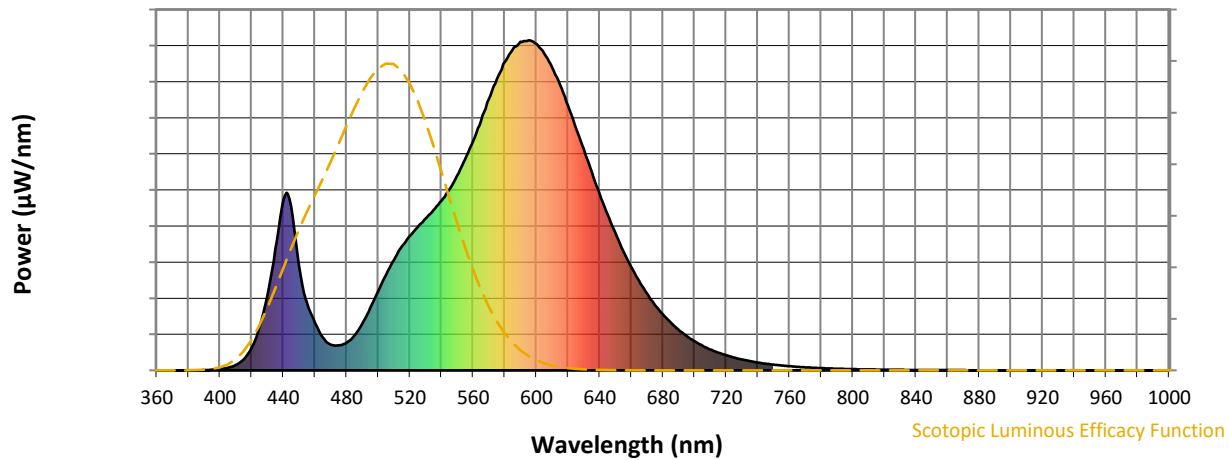


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



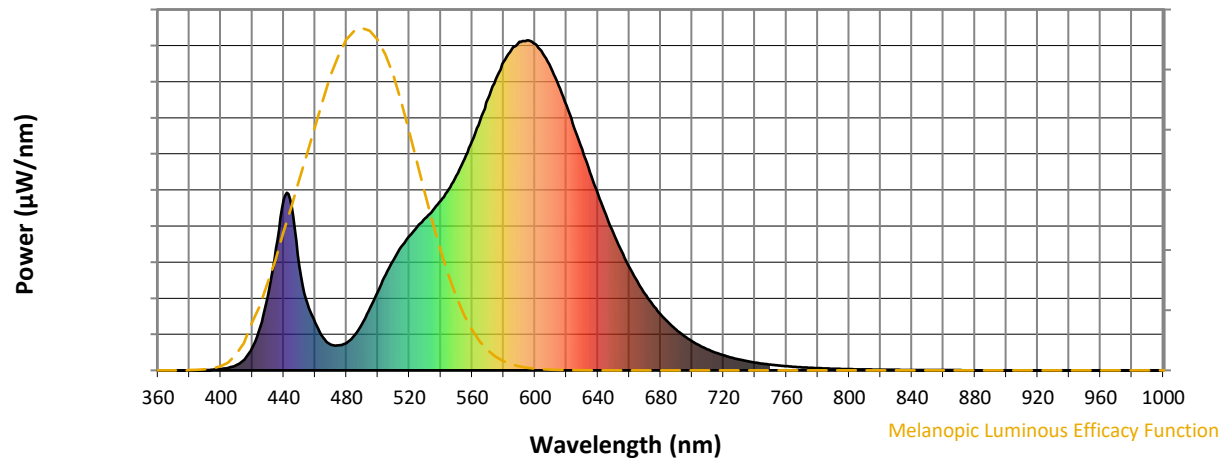
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

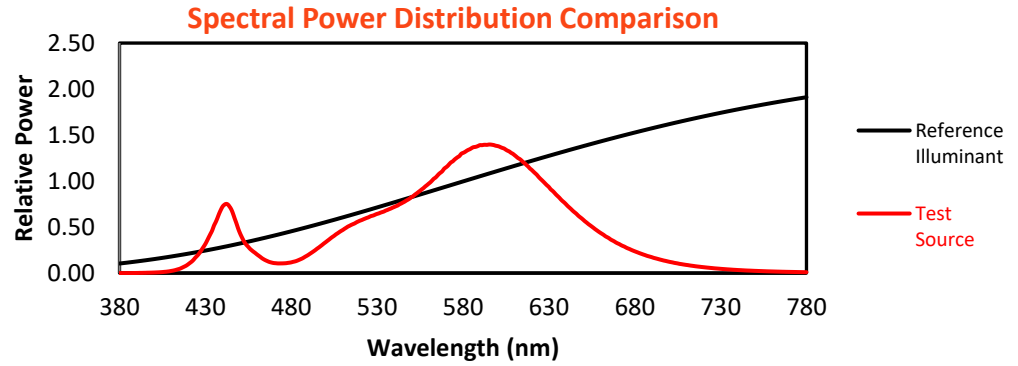
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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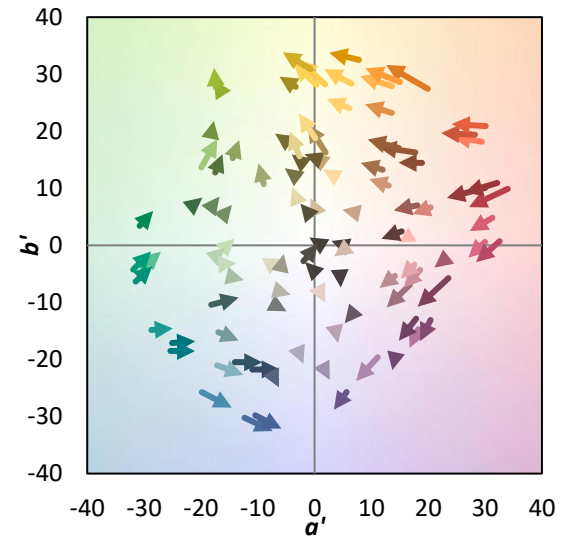
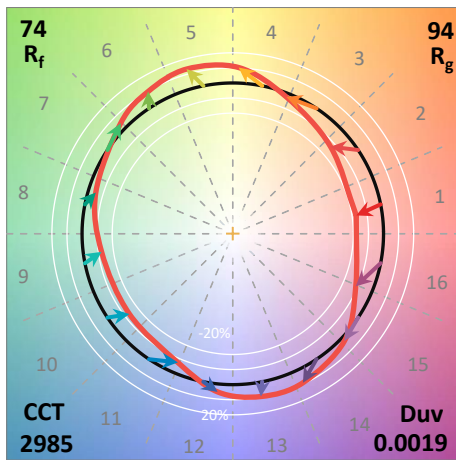
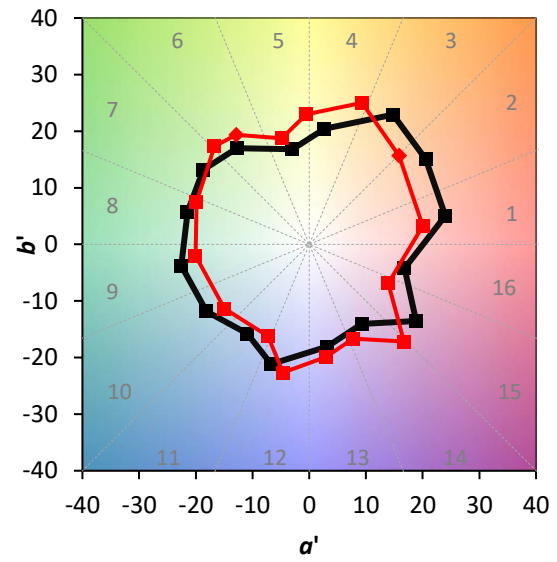
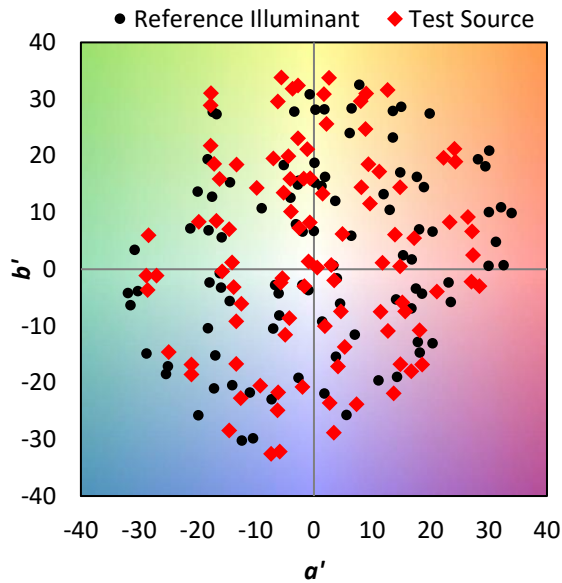
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

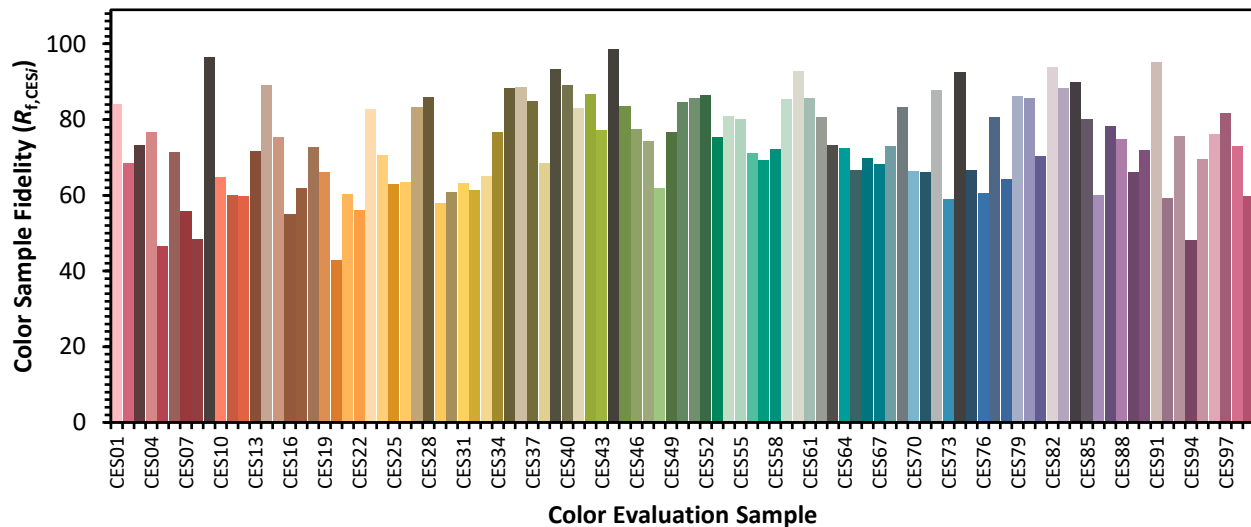


Color Vector Graphics

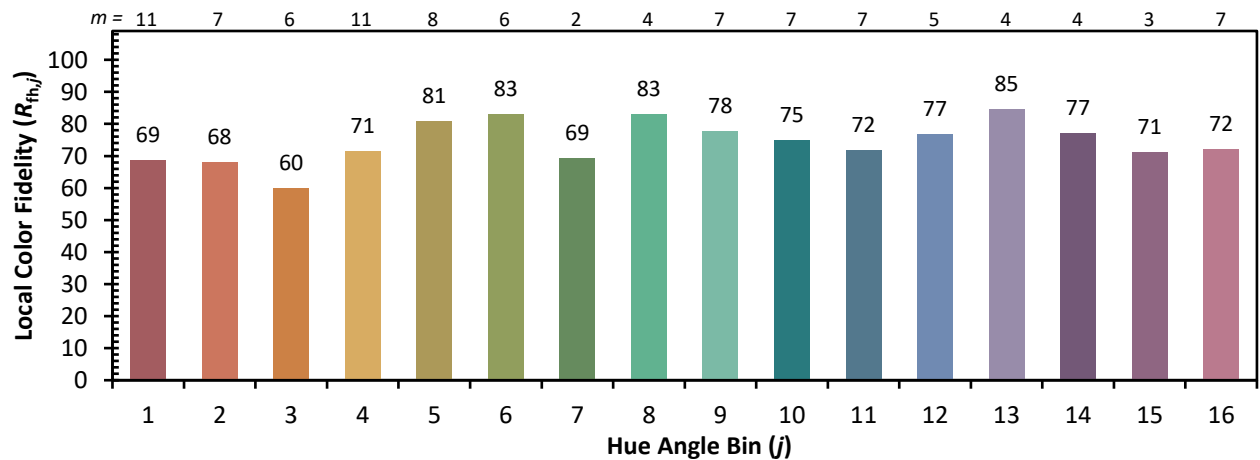
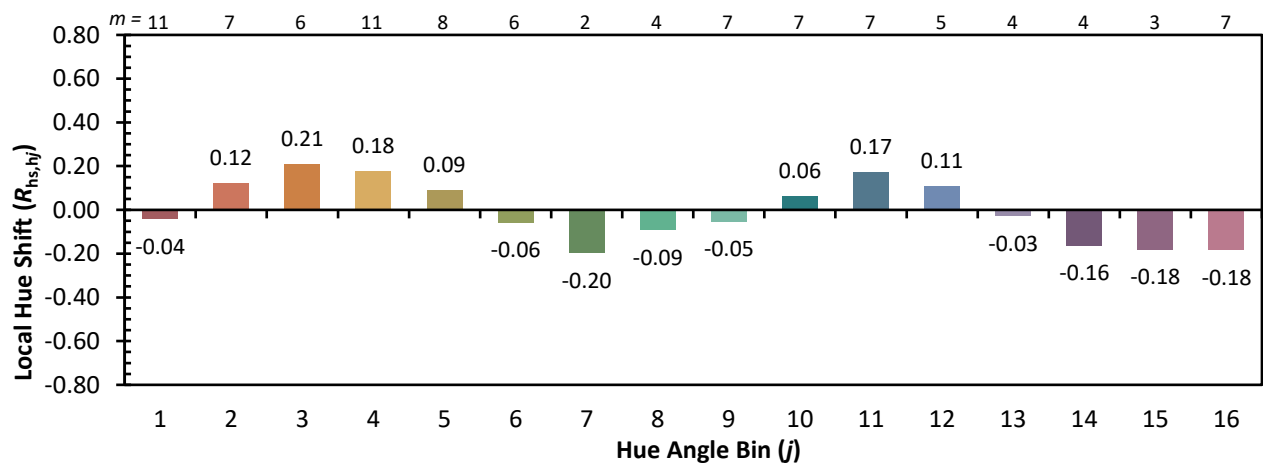
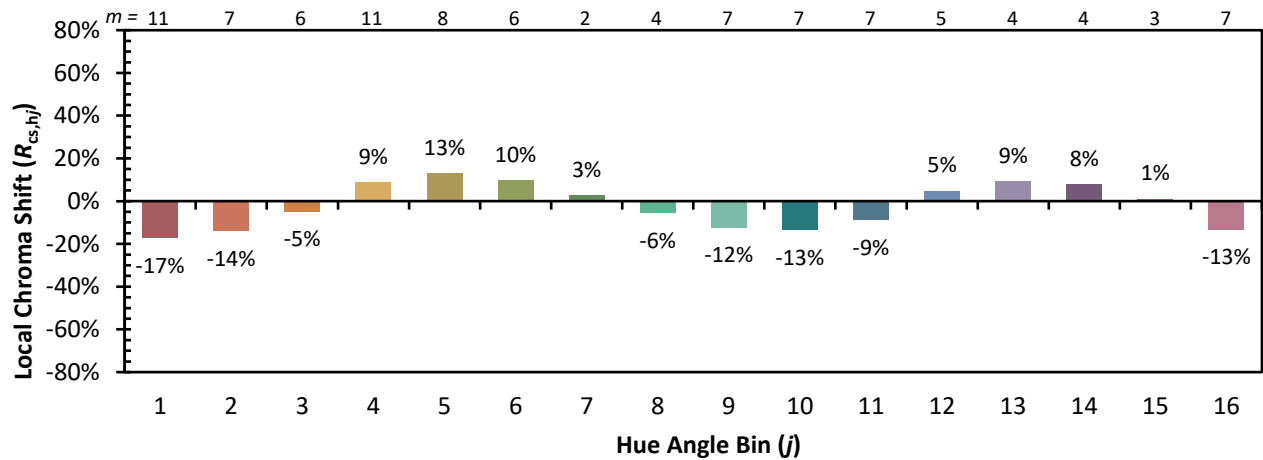


Individual Sample Fidelity Index ($R_{f,i}$)

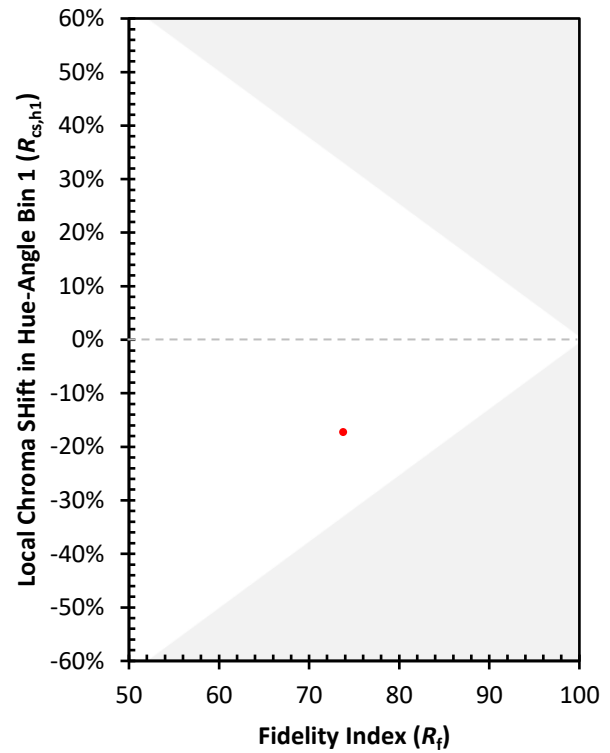
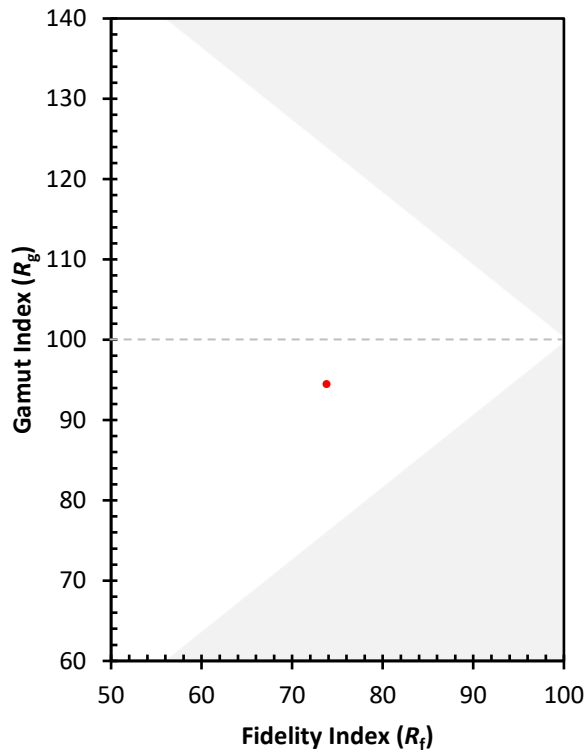
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)