

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: P1065603

Luminaire Tested: **GLAN-SA1C-935-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065603
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

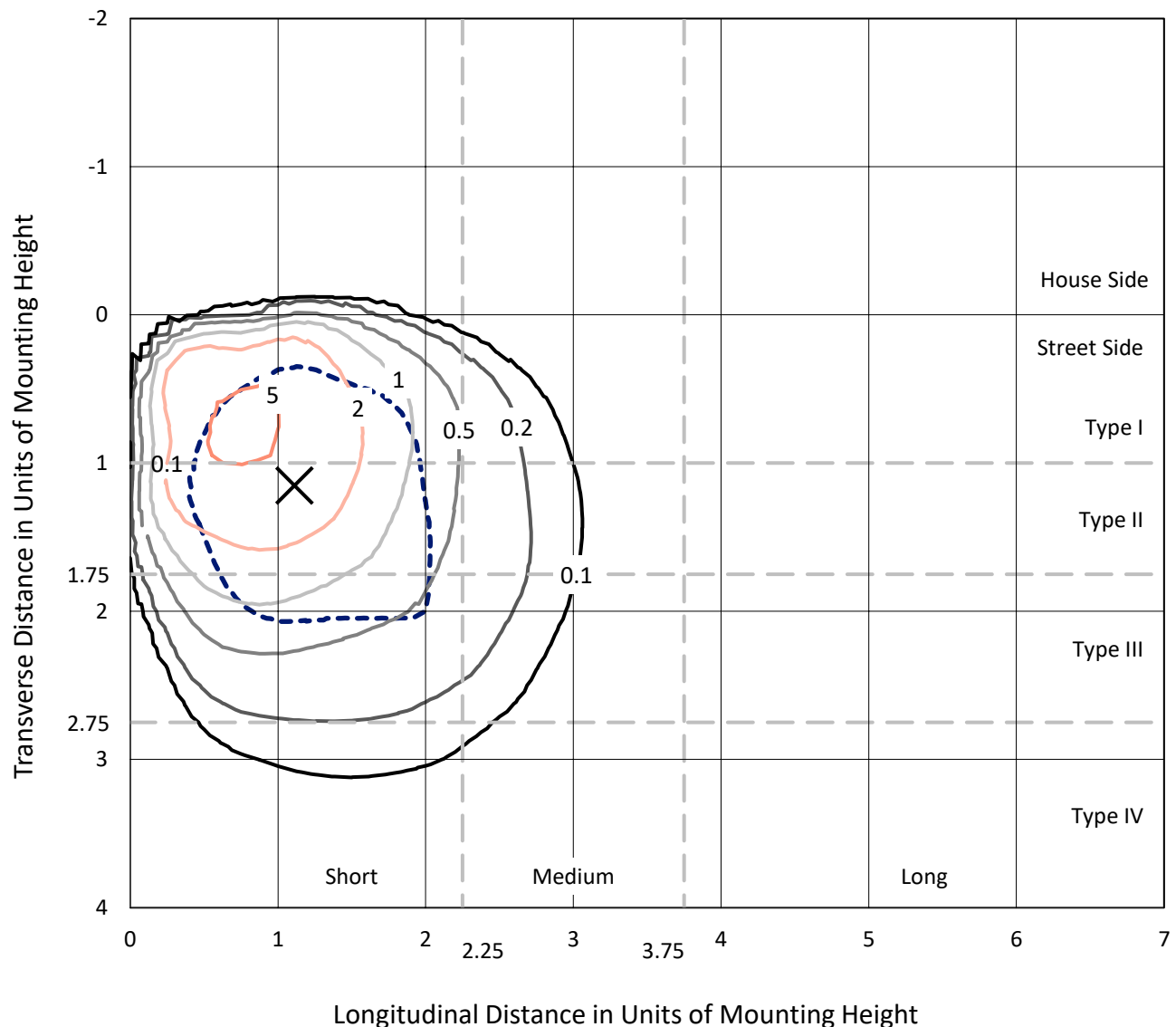
Lumens per Lamp: N/A
Luminaire Lumens: 3796.1 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

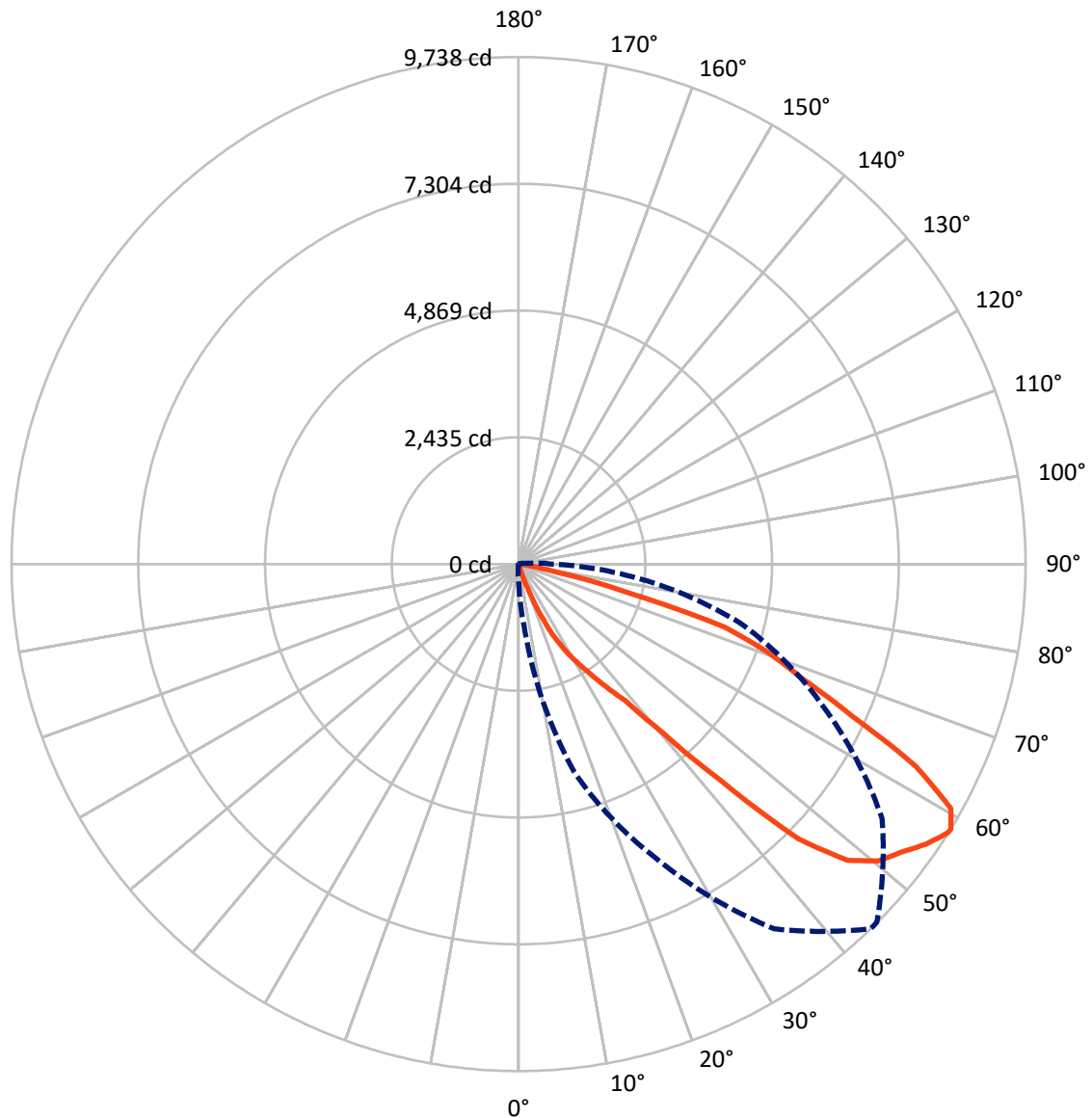
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	25.9	0.0	25.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	3770.2	0.0	3770.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	3796.1	0.0	3796.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.0
10°-20°	8.3	0.2
20°-30°	89.9	2.4
30°-40°	266.0	7.0
40°-50°	792.7	20.9
50°-60°	1257.8	33.1
60°-70°	1049.1	27.6
70°-80°	323.6	8.5
80°-90°	7.2	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3796.1	100.0
0°-180°	3796.1	100.0



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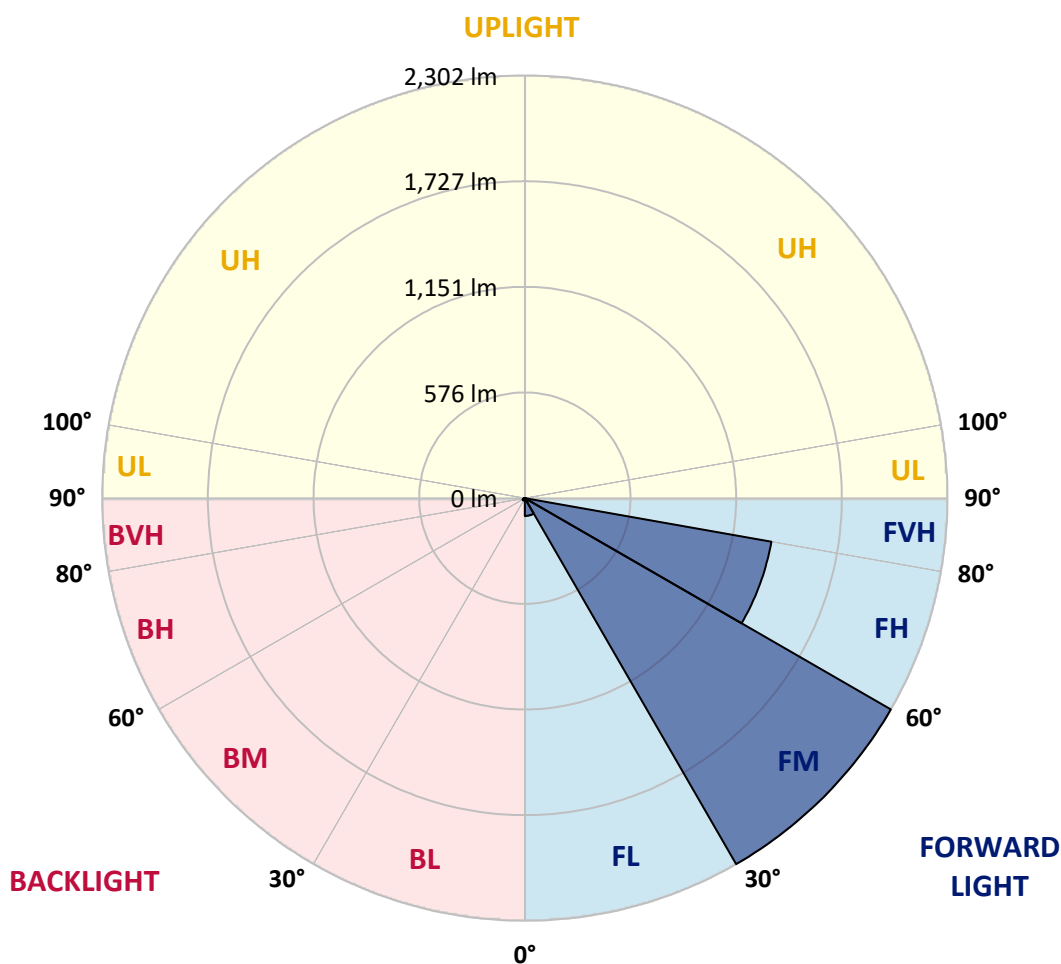
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.2	2.6			
FM	(30°-60°)	2302.2	60.6			
FH	(60°-80°)	1363.9	35.9			G1/1800
FVH	(80°-90°)	6.8	0.2			G0/10
BL	(0°-30°)	2.5	0.1	B0/110		
BM	(30°-60°)	14.2	0.4	B0/220		
BH	(60°-80°)	8.8	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°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
2.5°	21.5	21.5	20.6	19.5	18.4	17.2	16.9	16.3	16.1	15.8
5°	22.4	22.4	22.1	21.2	20.1	19.2	19.2	18.4	17.8	17.2
7.5°	22.9	23.2	23.8	23.5	22.9	22.1	22.1	21.5	20.6	19.2
10°	23.8	24.7	25.8	26.4	26.7	26.7	26.4	26.1	24.7	22.7
12.5°	24.7	26.4	29.2	32.1	33.8	36.1	35.8	35.3	31.5	27.2
15°	26.4	29.0	35.0	43.3	56.2	64.2	67.4	64.5	52.2	36.7
17.5°	28.4	32.7	50.8	90.6	148.5	176.1	192.7	179.2	118.7	69.7
20°	30.4	39.9	94.3	234.9	385.4	475.5	500.4	461.4	296.2	132.8
22.5°	33.8	55.9	191.3	485.5	830.5	965.5	991.0	866.3	559.5	262.1
25°	41.0	81.2	329.8	791.2	1239.4	1467.4	1456.8	1293.3	907.6	418.7
27.5°	51.3	118.1	498.7	1124.1	1631.1	1832.1	1856.2	1654.0	1209.8	615.7
30°	66.2	163.7	679.9	1390.8	1945.1	2162.5	2166.5	1957.4	1480.3	788.6
32.5°	80.6	206.8	838.5	1648.6	2254.5	2492.8	2510.6	2253.4	1682.1	968.7
35°	91.5	234.9	999.1	1875.1	2566.5	2894.9	2893.7	2588.3	1921.3	1129.6
37.5°	92.3	263.0	1144.5	2106.8	2961.7	3329.3	3365.7	3029.1	2210.4	1328.6
40°	90.3	294.5	1328.6	2468.2	3673.7	4237.8	4269.9	3845.5	2790.2	1669.2
42.5°	92.6	349.3	1627.4	3135.5	4856.0	5666.1	5728.1	5281.9	3856.1	2364.4
45°	104.7	452.2	2253.4	4251.8	6541.3	7528.9	7508.3	6865.7	5096.3	3422.5
47.5°	144.5	704.3	3181.3	5338.4	7618.4	8497.9	8515.7	7730.2	5820.1	4236.0
50°	222.2	1077.7	3961.0	5912.7	8081.5	8963.9	8947.3	8039.7	6095.1	4636.7
52.5°	289.1	1347.8	4352.2	6114.3	8140.9	9194.2	9193.0	8121.1	6137.9	4671.1
55°	305.7	1368.1	4355.3	6125.2	8273.9	9495.6	9533.4	8321.5	6193.2	4520.8
57.5°	299.1	1211.3	4173.5	6188.3	8510.8	9728.7	9730.7	8515.7	6333.7	4428.8
58°	293.4	1186.6	4136.8	6224.2	8551.5	9738.4	9733.6	8524.6	6448.1	4425.3
60°	261.2	1030.3	3993.7	6315.6	8491.0	9538.3	9492.7	8330.4	6431.2	4390.0
62.5°	205.3	803.8	3852.9	6209.8	7842.4	8569.3	8588.2	7375.2	5862.8	4184.4
65°	163.5	599.0	3559.3	5447.0	6457.9	7037.1	7107.7	5997.3	4893.6	3543.2
67.5°	130.2	433.0	2985.8	4336.7	5110.1	5873.2	5924.5	5035.3	3791.3	2714.8
70°	105.8	292.8	2061.0	3171.6	4214.8	5072.8	5076.0	4183.0	2829.8	1778.8
72.5°	93.8	202.7	1196.4	2313.0	3417.6	4133.7	4050.2	3394.4	2174.8	1053.6
75°	81.2	134.5	586.7	1414.0	2072.1	2086.2	2118.0	1574.6	1087.1	501.0
77.5°	66.8	95.5	231.1	386.3	621.4	795.5	825.0	625.1	361.6	123.3
80°	45.9	45.3	62.2	118.4	177.8	222.8	207.9	160.9	94.6	47.3
82.5°	19.8	21.5	28.1	33.8	27.5	26.7	25.5	16.3	12.6	9.7
85°	6.3	5.7	6.0	6.0	4.9	3.7	3.7	1.7	0.0	0.0
87.5°	3.2	2.6	2.6	2.3	1.4	0.6	0.3	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°
16.6	0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
15.5	2.5°	15.2	15.2	14.6	14.1	13.8	13.2	12.9	12.6	12.3	12.0
16.6	5°	16.1	15.8	14.9	14.1	13.2	12.3	11.8	11.2	10.6	10.3
18.4	7.5°	17.5	16.9	15.2	13.8	12.6	11.5	10.9	10.0	9.5	8.6
20.4	10°	19.2	18.1	15.8	14.1	12.3	10.9	10.0	9.2	8.3	7.2
23.2	12.5°	21.5	19.5	16.6	13.8	11.8	10.0	9.2	8.0	7.2	6.3
27.0	15°	23.5	20.9	16.9	13.8	11.2	9.2	8.0	6.9	6.0	4.9
33.8	17.5°	26.4	22.1	16.6	12.9	10.3	8.0	6.9	6.0	4.6	2.9
50.2	20°	31.3	22.9	16.1	12.0	8.9	6.6	5.2	4.0	2.0	0.6
75.4	22.5°	39.0	25.2	15.5	10.9	7.7	5.2	3.4	1.4	0.0	0.0
114.7	25°	53.9	29.2	15.5	10.3	6.9	3.7	1.1	0.0	0.0	0.0
162.9	27.5°	71.7	34.7	15.5	8.9	5.4	2.0	0.0	0.0	0.0	0.0
222.0	30°	89.8	40.7	15.5	7.7	4.3	0.3	0.0	0.0	0.0	0.0
273.3	32.5°	107.0	45.9	15.8	6.6	2.9	0.0	0.0	0.0	0.0	0.0
344.4	35°	124.5	46.7	15.5	5.7	1.7	0.0	0.0	0.0	0.0	0.0
431.6	37.5°	146.8	45.0	14.6	5.2	0.9	0.0	0.0	0.0	0.0	0.0
567.8	40°	180.7	45.9	13.8	4.9	0.3	0.0	0.0	0.0	0.0	0.0
810.7	42.5°	243.2	49.6	12.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
1291.3	45°	420.4	66.5	11.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
1938.5	47.5°	695.4	119.6	11.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
2335.1	50°	887.5	150.6	11.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0
2384.7	52.5°	886.1	167.8	12.3	5.7	1.1	0.0	0.0	0.0	0.0	0.0
2198.0	55°	787.7	170.9	13.2	6.3	3.7	0.0	0.0	0.0	0.0	0.0
1888.9	57.5°	658.4	156.0	15.2	7.7	6.9	0.0	0.0	0.0	0.0	0.0
1840.4	58°	635.5	149.1	15.8	8.0	7.5	0.0	0.0	0.0	0.0	0.0
1596.4	60°	520.8	121.6	20.1	10.0	10.0	0.0	0.0	0.0	0.0	0.0
1308.8	62.5°	359.6	106.1	22.9	12.9	10.3	0.0	0.0	0.0	0.0	0.0
965.0	65°	254.4	95.8	24.9	13.8	8.3	0.0	0.0	0.0	0.0	0.0
685.6	67.5°	190.1	88.3	27.5	14.1	4.3	0.0	0.0	0.0	0.0	0.0
430.1	70°	145.7	82.9	33.8	14.9	1.1	0.0	0.0	0.0	0.0	0.0
256.4	72.5°	118.7	76.6	41.0	15.5	0.0	0.0	0.0	0.0	0.0	0.0
153.7	75°	98.4	69.1	39.6	16.9	0.0	0.0	0.0	0.0	0.0	0.0
82.0	77.5°	65.4	53.6	36.1	16.9	0.0	0.0	0.0	0.0	0.0	0.0
29.2	80°	22.9	21.2	28.1	14.9	0.0	0.0	0.0	0.0	0.0	0.0
6.0	82.5°	3.4	2.9	4.0	5.2	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°
16.6	0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
11.8	2.5°	11.8	11.8	11.5	11.8	11.8	12.3	13.8	15.8	18.1	18.9
10.0	5°	9.7	9.5	9.2	9.2	9.2	10.0	11.2	13.5	16.1	17.2
8.3	7.5°	8.0	7.7	7.5	7.2	7.2	7.7	9.2	11.8	14.3	15.5
6.9	10°	6.6	6.0	5.7	5.4	5.4	6.0	7.5	10.0	12.9	14.1
5.7	12.5°	5.4	4.6	4.0	3.7	3.4	4.3	5.7	8.0	11.2	12.6
4.3	15°	3.7	2.9	2.0	1.7	1.4	2.3	3.7	6.3	9.5	11.2
2.3	17.5°	2.0	0.9	0.3	0.0	0.0	0.6	1.7	4.6	7.7	9.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	7.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.4	4.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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	0.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3
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°
16.6	0°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
19.8	2.5°	20.4	20.1	19.5	18.9	18.9	18.9	19.8	20.6	21.5	21.5
17.8	5°	18.9	18.9	18.6	18.1	18.1	18.4	19.5	20.9	22.1	22.4
16.3	7.5°	17.5	18.1	17.5	17.2	17.5	17.8	18.9	20.6	22.4	22.9
15.2	10°	16.6	16.9	16.9	16.6	16.6	17.2	18.4	20.6	22.9	23.8
13.8	12.5°	15.5	16.1	15.8	15.8	15.8	16.3	17.8	20.4	23.5	24.7
12.3	15°	14.3	15.2	15.2	14.9	14.9	15.2	17.2	20.1	24.4	26.4
10.6	17.5°	13.2	14.1	14.3	13.8	13.8	14.3	16.3	20.1	24.9	28.4
8.6	20°	10.9	12.3	13.2	12.3	12.3	12.9	14.9	18.9	25.2	30.4
6.3	22.5°	8.6	10.0	11.2	10.9	10.9	11.2	13.8	18.1	25.5	33.8
3.7	25°	6.3	7.7	8.6	9.2	9.2	10.0	12.6	17.5	26.7	41.0
1.7	27.5°	3.7	5.4	6.6	7.2	7.5	8.6	11.8	16.9	28.7	51.3
0.0	30°	1.7	3.2	4.6	5.7	5.7	7.7	10.9	16.3	31.3	66.2
0.0	32.5°	0.0	1.4	2.3	4.0	4.3	6.3	10.0	15.8	35.0	80.6
0.0	35°	0.0	0.0	1.1	3.2	3.2	5.2	9.2	15.2	40.7	91.5
0.0	37.5°	0.0	0.0	0.0	2.3	2.6	4.6	8.9	14.9	41.9	92.3
0.0	40°	0.0	0.0	0.0	1.7	2.0	4.3	8.9	15.2	37.9	90.3
0.0	42.5°	0.0	0.0	0.0	1.1	1.4	4.3	8.9	15.8	34.1	92.6
0.0	45°	0.0	0.0	0.0	0.9	1.1	4.6	8.6	15.5	32.1	104.7
0.0	47.5°	0.0	0.0	0.0	1.1	1.7	4.6	8.3	15.2	32.4	144.5
0.0	50°	0.0	0.0	0.0	1.4	2.0	4.6	8.6	14.6	35.6	222.2
0.0	52.5°	0.0	0.0	0.0	1.1	1.7	5.2	9.5	14.3	38.7	289.1
0.0	55°	0.0	0.0	0.0	0.3	0.9	6.6	10.3	14.3	43.6	305.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	7.5	11.8	15.2	51.6	299.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	7.5	12.0	15.2	52.2	293.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	7.5	13.2	16.9	56.2	261.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	6.3	15.8	21.2	58.5	205.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	5.2	18.6	23.2	60.2	163.5
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	4.9	19.2	23.5	61.1	130.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	5.2	18.9	25.2	63.9	105.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	5.7	17.2	27.8	63.9	93.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	6.0	16.1	31.3	58.2	81.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	5.7	15.8	36.4	51.9	66.8
0.0	80°	0.6	0.9	0.9	0.6	0.6	4.9	15.5	37.0	44.2	45.9
0.3	82.5°	1.7	2.3	2.0	1.4	1.4	4.3	13.8	31.0	22.9	19.8
1.7	85°	3.2	3.7	3.7	3.2	3.2	4.0	8.6	11.2	7.7	6.3
3.2	87.5°	4.3	4.9	4.9	4.3	4.3	4.0	3.7	3.4	3.2	3.2
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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

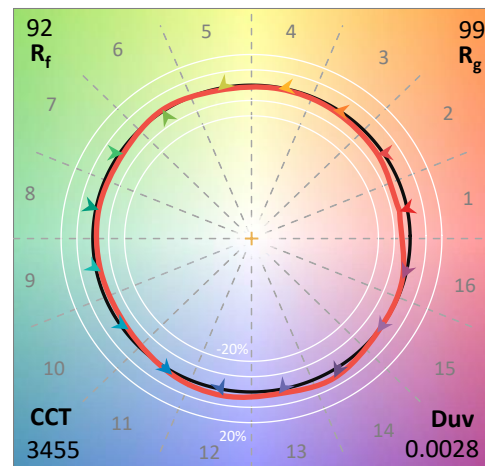
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

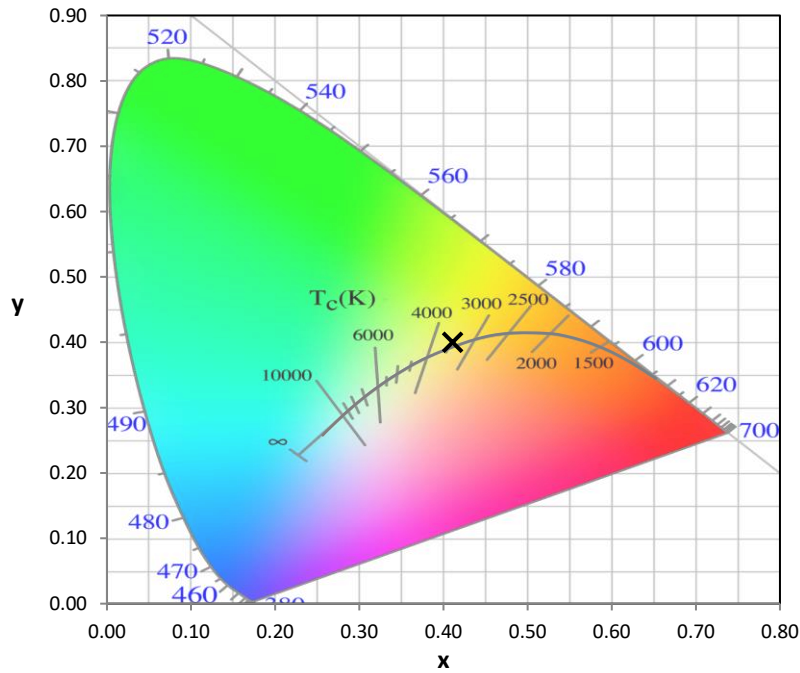
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

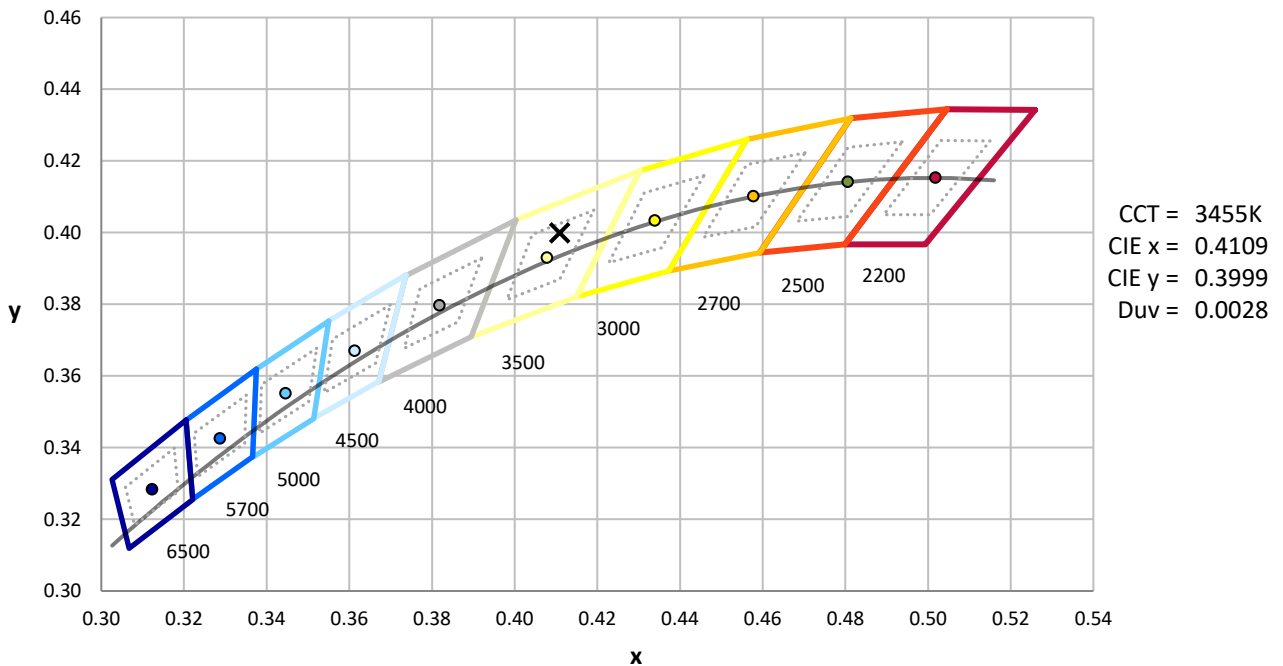
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-15

CIE 1931 Chromaticity Diagram



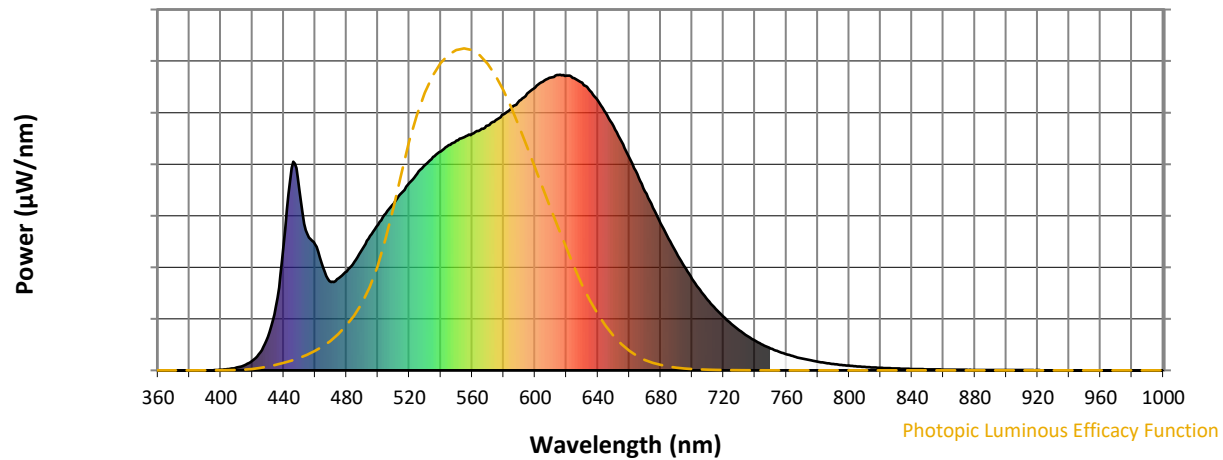
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

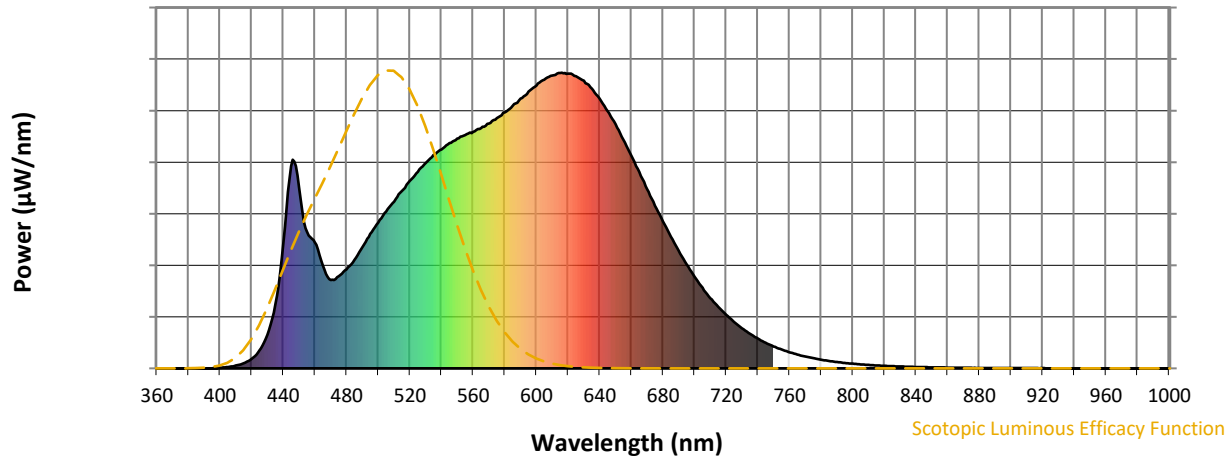


Photopic Lumens: NR

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

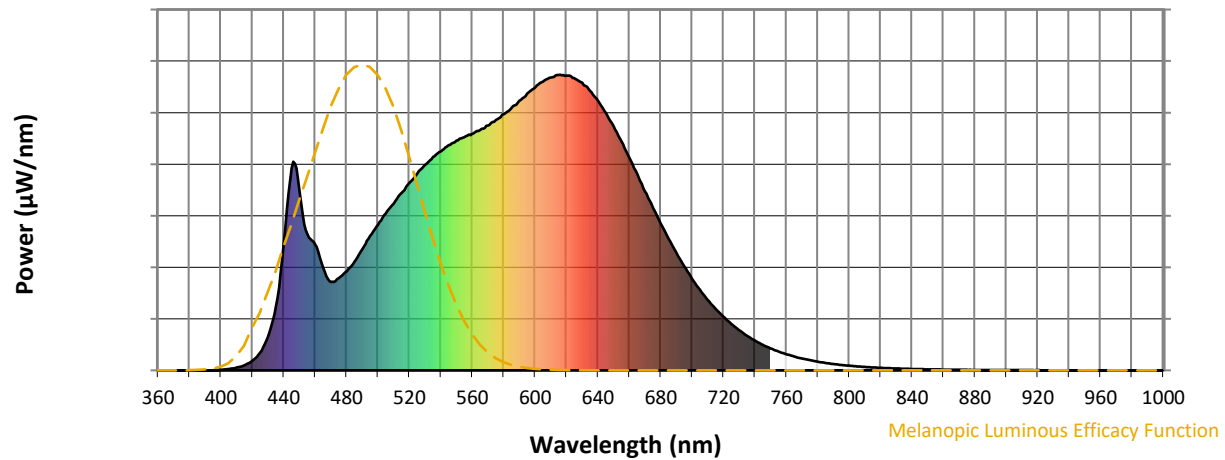
Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.14

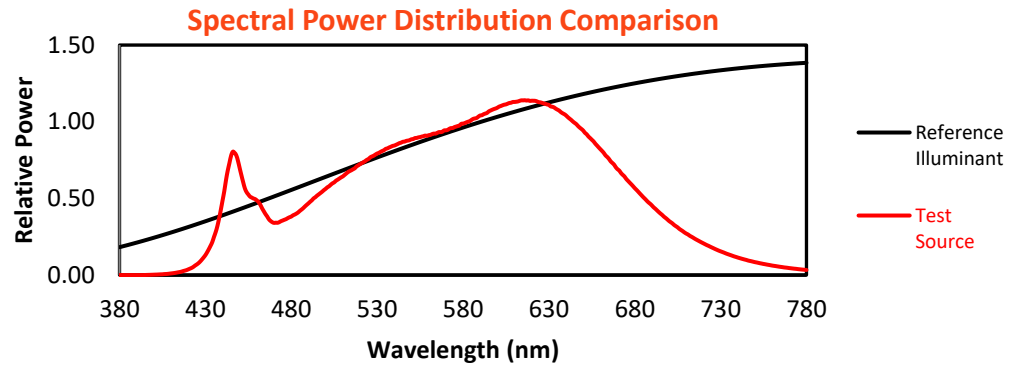
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

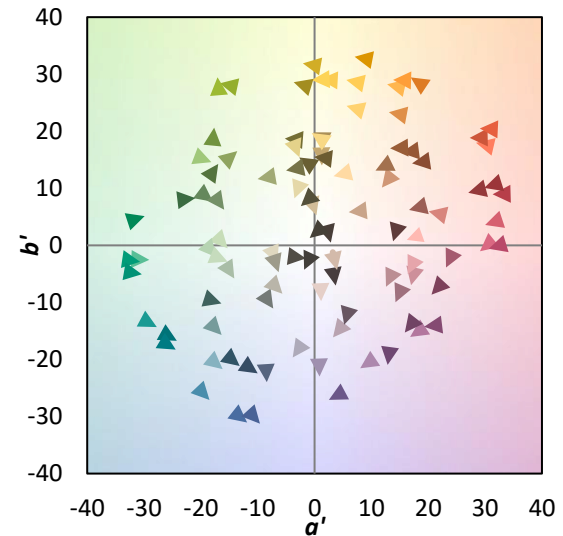
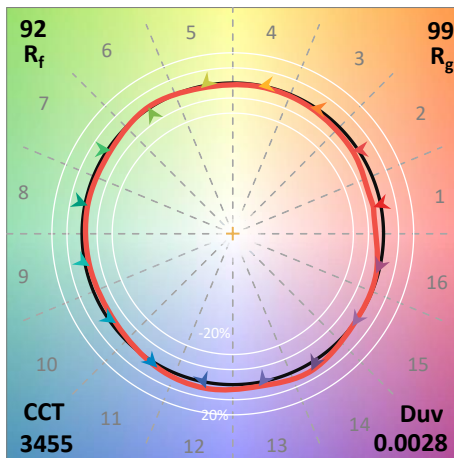
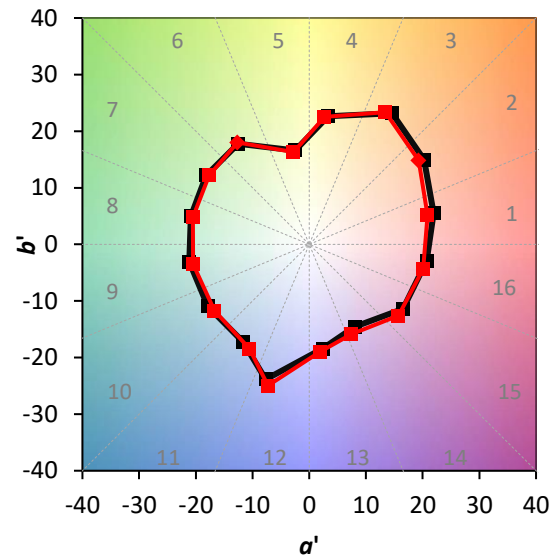
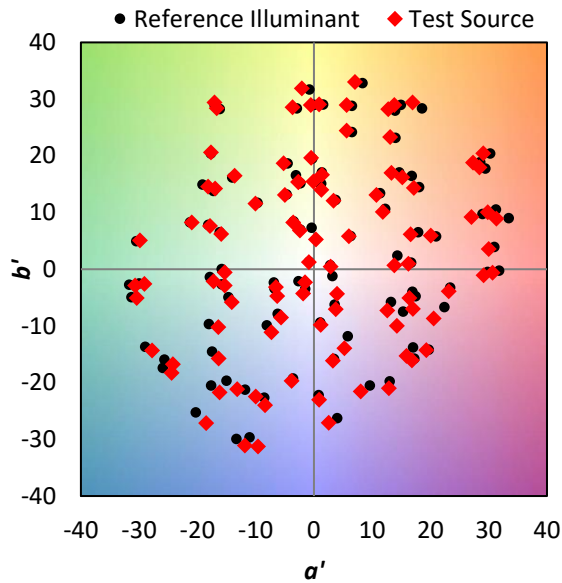
TM-30-18

Summary

$R_f = 92.3$
 $R_g = 98.5$
 $CIE\ R_a = 92.2$
 $R_9 = 59.8$

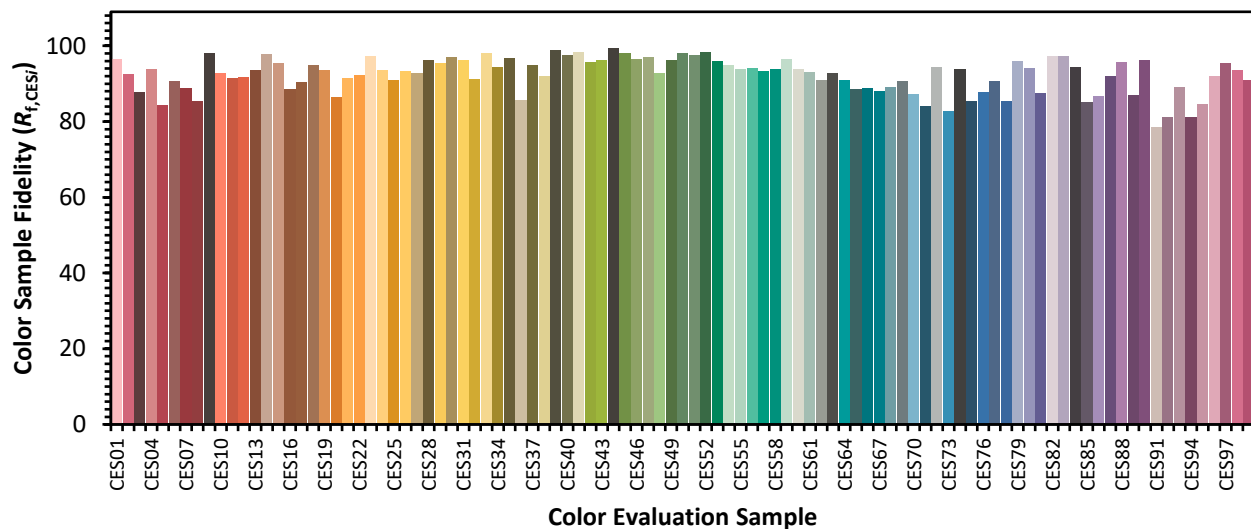


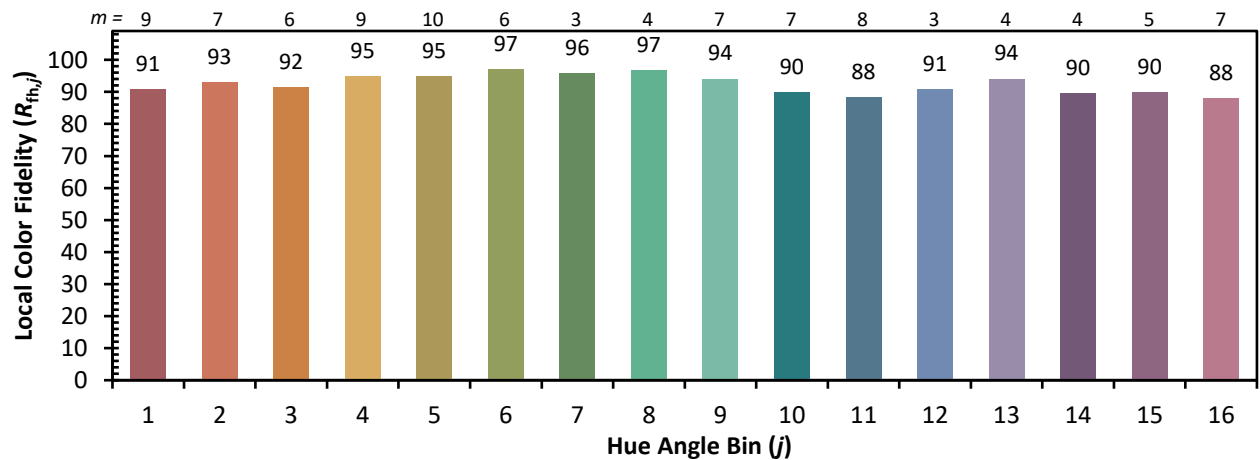
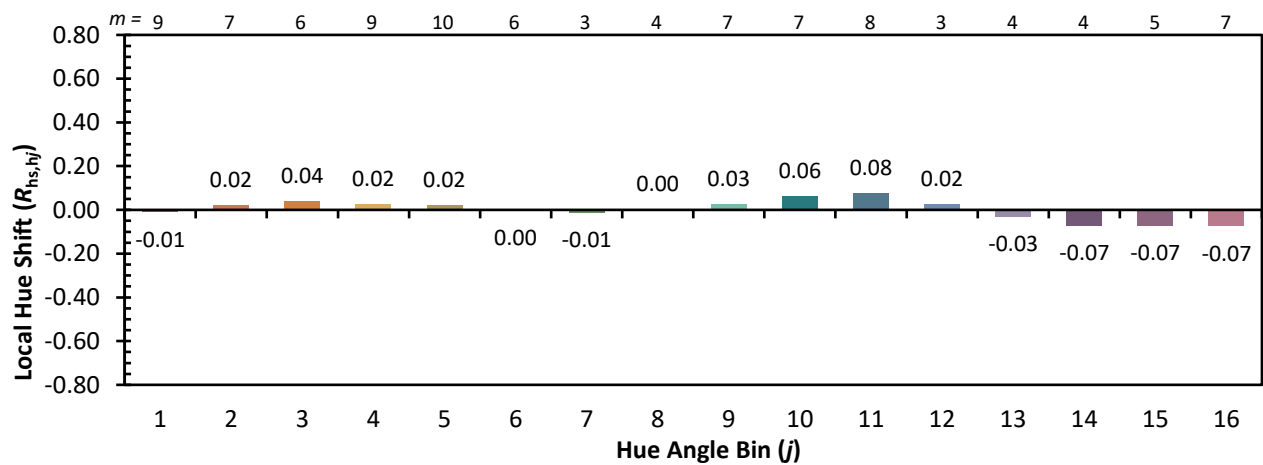
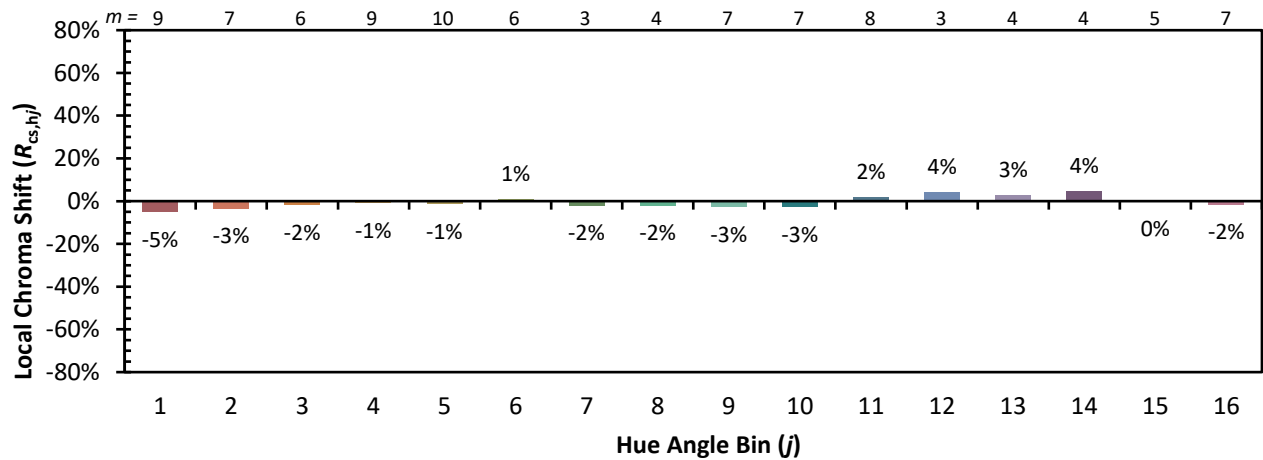
Color Vector Graphics



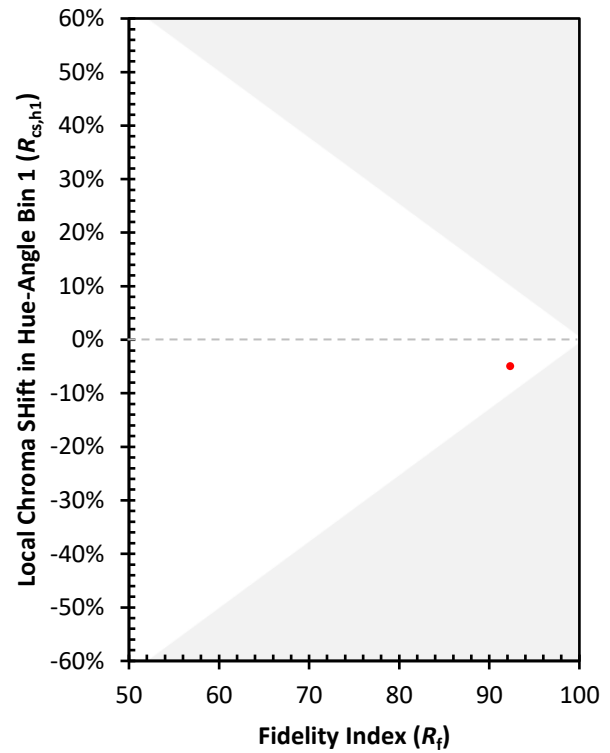
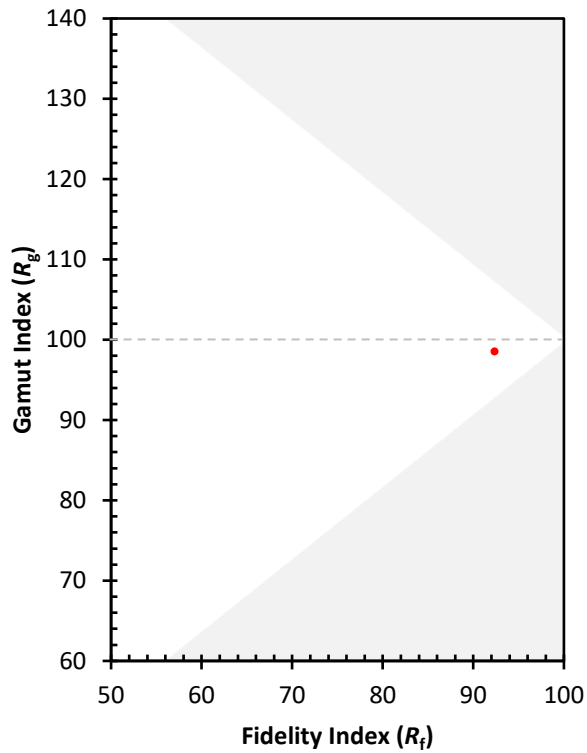
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)