

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: P1065689

Luminaire Tested: **GLAN-SA5A-950-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065689
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 5xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12829.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

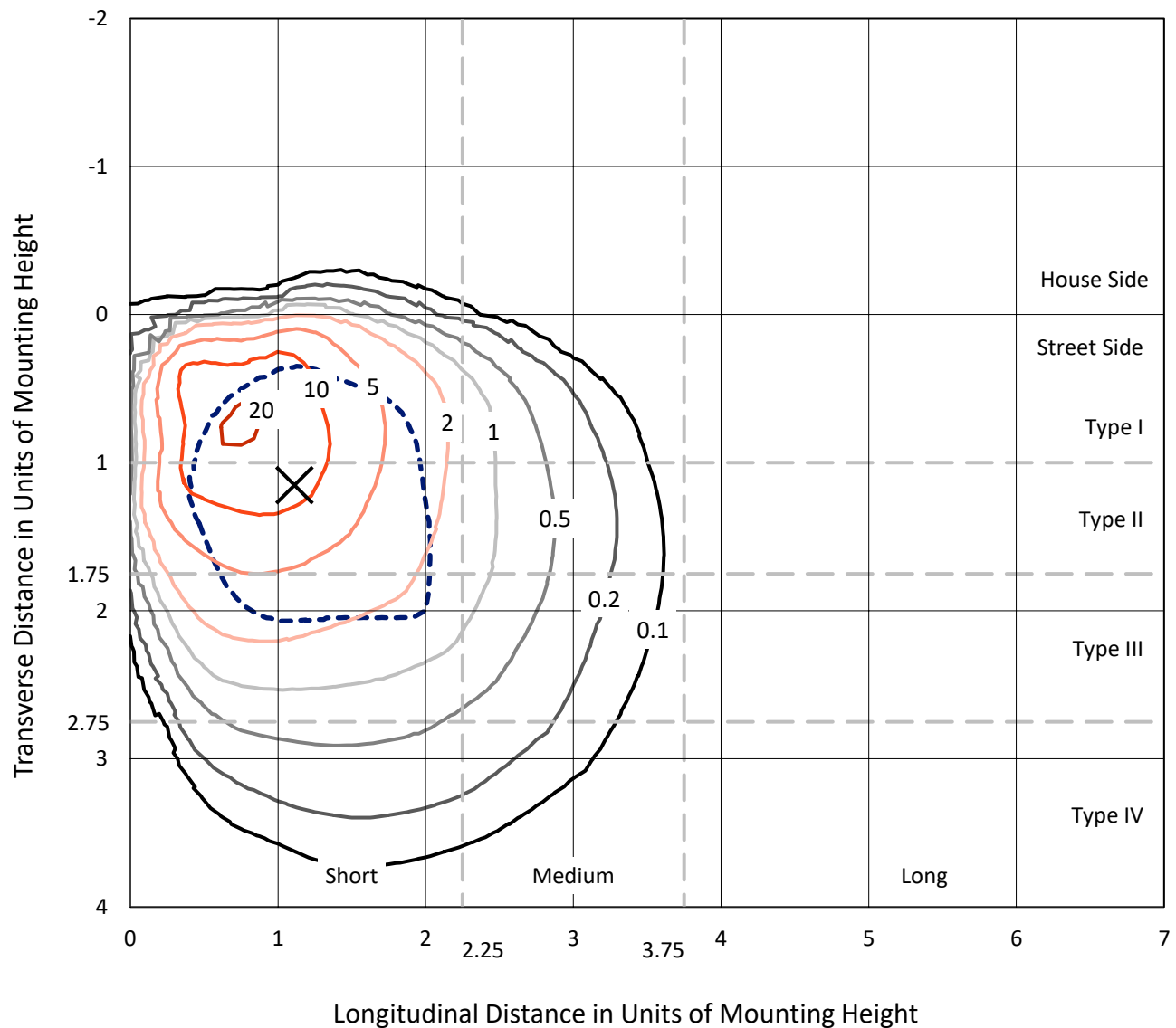
Input Watts (W): 136.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1065689

CATALOG NUMBER: GLAN-SA5A-950-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

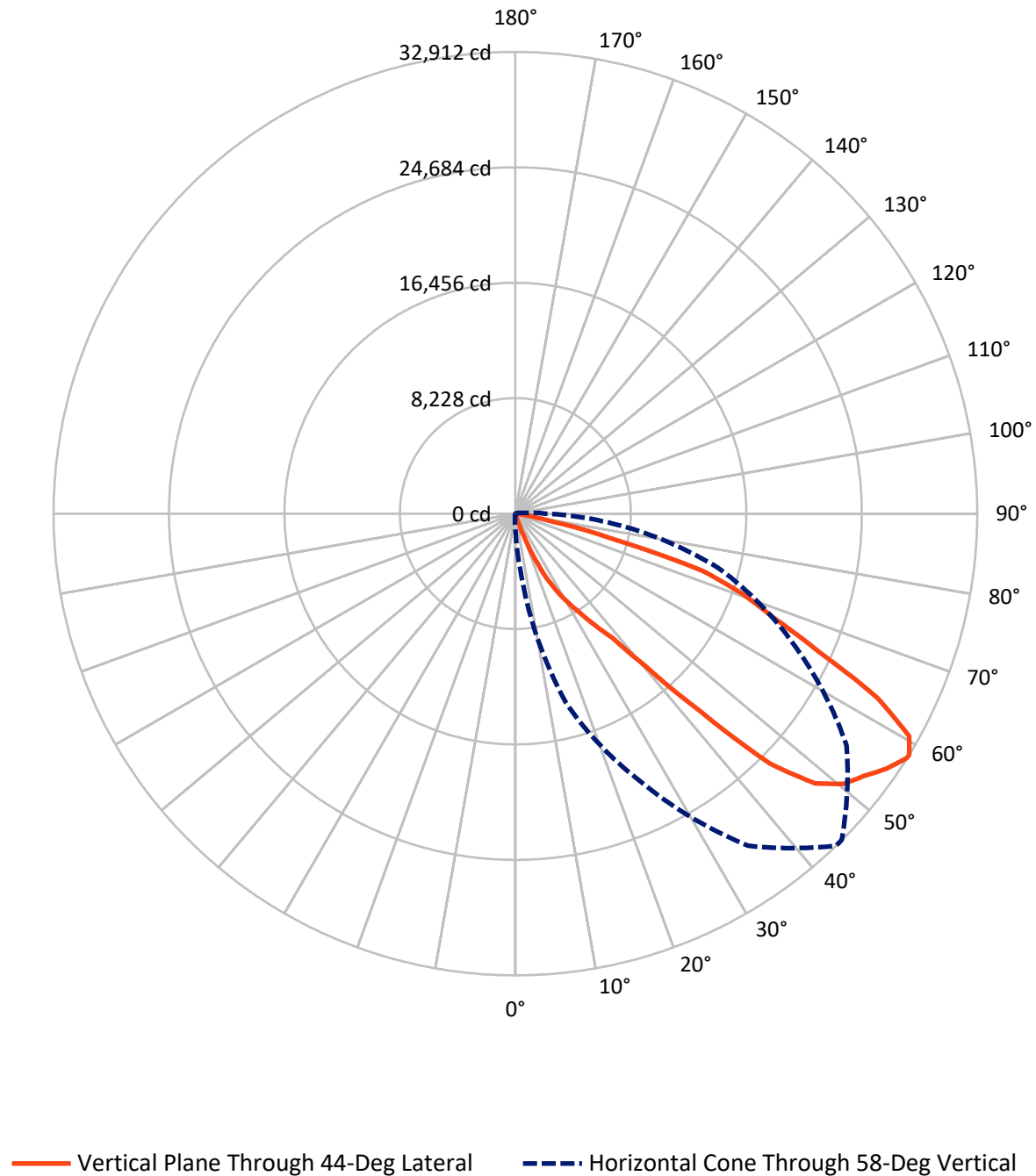
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1065689
CATALOG NUMBER: GLAN-SA5A-950-U-LBC

Luminous Intensity Polar Plot



REPORT NUMBER: P1065689

CATALOG NUMBER: GLAN-SA5A-950-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	87.6	0.0	87.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12741.5	0.0	12741.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	12829.1	0.0	12829.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.0
10°-20°	28.1	0.2
20°-30°	303.9	2.4
30°-40°	898.8	7.0
40°-50°	2678.9	20.9
50°-60°	4250.8	33.1
60°-70°	3545.7	27.6
70°-80°	1093.5	8.5
80°-90°	24.3	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°	12829.1	100.0
0°-180°	12829.1	100.0



REPORT NUMBER: P1065689

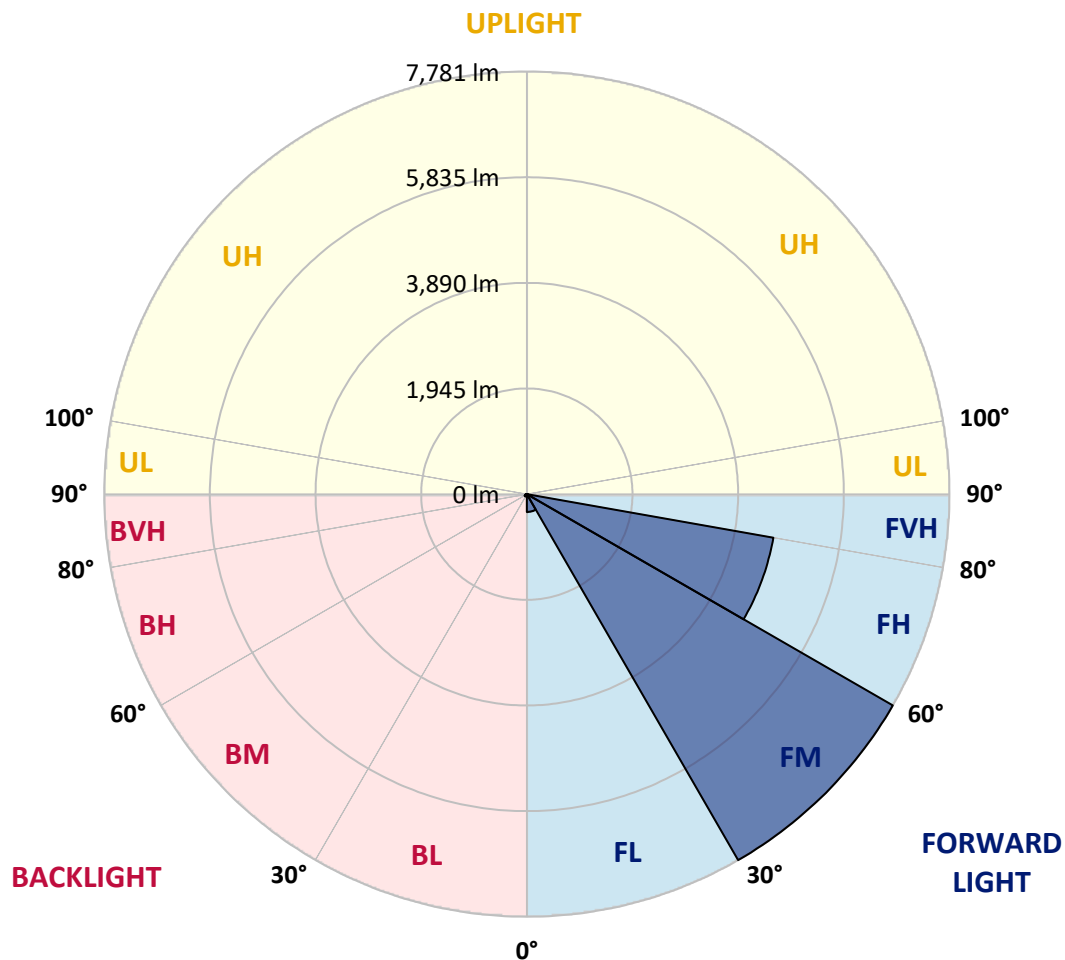
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	328.5	2.6			
FM	(30°-60°)	7780.6	60.6			
FH	(60°-80°)	4609.3	35.9			G2/5000
FVH	(80°-90°)	23.1	0.2			G1/100
BL	(0°-30°)	8.6	0.1	B0/110		
BM	(30°-60°)	47.9	0.4	B0/220		
BH	(60°-80°)	29.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G2

Type III Short



REPORT NUMBER: P1065689

CATALOG NUMBER: GLAN-SA5A-950-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.5°	72.7	72.7	69.8	65.9	62.0	58.1	57.2	55.2	54.3	53.3
5°	75.6	75.6	74.6	71.7	67.8	64.9	64.9	62.0	60.1	58.1
7.5°	77.5	78.5	80.4	79.5	77.5	74.6	74.6	72.7	69.8	64.9
10°	80.4	83.3	87.2	89.2	90.1	90.1	89.2	88.2	83.3	76.6
12.5°	83.3	89.2	98.9	108.5	114.4	122.1	121.1	119.2	106.6	92.1
15°	89.2	97.9	118.2	146.3	189.9	217.1	227.7	218.1	176.4	124.0
17.5°	95.9	110.5	171.5	306.2	502.0	595.0	651.3	605.7	401.2	235.5
20°	102.7	134.7	318.8	793.7	1302.5	1606.8	1691.1	1559.3	1001.1	448.7
22.5°	114.4	189.0	646.4	1640.7	2806.6	3263.1	3349.3	2927.7	1890.8	885.8
25°	138.6	274.3	1114.5	2673.8	4188.6	4959.0	4923.2	4370.8	3067.3	1414.9
27.5°	173.5	399.3	1685.3	3799.0	5512.4	6191.8	6273.2	5589.9	4088.7	2080.7
30°	223.9	553.4	2297.8	4700.3	6573.6	7308.2	7321.8	6615.3	5002.6	2665.1
32.5°	272.3	698.7	2833.7	5571.5	7619.3	8424.6	8484.7	7615.4	5684.9	3273.7
35°	309.2	793.7	3376.4	6337.1	8673.7	9783.3	9779.5	8747.3	6493.2	3817.4
37.5°	312.1	888.7	3867.8	7120.2	10009.1	11251.6	11374.6	10236.9	7470.0	4490.0
40°	305.3	995.3	4490.0	8341.3	12415.5	14321.8	14430.3	12996.0	9429.6	5641.3
42.5°	313.0	1180.4	5499.8	10596.4	16411.2	19149.0	19358.3	17850.4	13031.9	7990.5
45°	353.7	1528.3	7615.4	14369.3	22106.8	25444.4	25374.7	23202.8	17223.3	11566.5
47.5°	488.4	2380.2	10751.5	18041.3	25746.8	28719.1	28779.2	26124.8	19669.4	14315.9
50°	751.1	3642.0	13386.6	19982.4	27311.9	30294.0	30237.7	27170.5	20598.8	15669.8
52.5°	976.9	4554.9	14708.4	20663.7	27512.6	31072.2	31068.3	27445.7	20743.2	15786.1
55°	1033.1	4623.7	14719.1	20700.6	27962.2	32090.7	32218.6	28123.1	20930.2	15278.3
57.5°	1010.8	4093.6	14104.7	20913.8	28762.7	32878.6	32885.4	28779.2	21405.1	14967.2
58°	991.4	4010.2	13980.6	21034.9	28900.3	32911.6	32895.1	28809.2	21791.8	14955.6
60°	882.9	3482.1	13497.0	21344.1	28695.9	32235.1	32081.0	28153.1	21734.6	14836.4
62.5°	693.9	2716.5	13021.2	20986.5	26503.7	28960.4	29024.4	24925.0	19813.8	14141.5
65°	552.4	2024.5	12028.8	18408.6	21824.7	23782.4	24020.8	20268.3	16538.2	11974.5
67.5°	440.0	1463.4	10090.6	14656.1	17269.8	19848.7	20022.2	17016.9	12812.8	9174.7
70°	357.6	989.5	6965.1	10718.5	14244.2	17143.9	17154.5	14136.7	9563.3	6011.5
72.5°	316.9	685.2	4043.2	7817.0	11550.1	13970.0	13688.0	11471.6	7349.9	3560.6
75°	274.3	454.5	1982.8	4778.8	7002.9	7050.4	7158.0	5321.5	3674.0	1693.1
77.5°	225.8	322.7	781.1	1305.4	2100.1	2688.4	2788.2	2112.7	1222.1	416.7
80°	155.1	153.1	210.3	400.2	600.9	753.0	702.6	543.7	319.8	159.9
82.5°	66.9	72.7	95.0	114.4	93.0	90.1	86.3	55.2	42.6	33.0
85°	21.3	19.4	20.4	20.4	16.5	12.6	12.6	5.8	0.0	0.0
87.5°	10.7	8.7	8.7	7.8	4.8	1.9	1.0	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



REPORT NUMBER: P1065689

CATALOG NUMBER: GLAN-SA5A-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
52.3	2.5°	51.4	51.4	49.4	47.5	46.5	44.6	43.6	42.6	41.7	40.7
56.2	5°	54.3	53.3	50.4	47.5	44.6	41.7	39.7	37.8	35.9	34.9
62.0	7.5°	59.1	57.2	51.4	46.5	42.6	38.8	36.8	33.9	32.0	29.1
68.8	10°	64.9	61.1	53.3	47.5	41.7	36.8	33.9	31.0	28.1	24.2
78.5	12.5°	72.7	65.9	56.2	46.5	39.7	33.9	31.0	27.1	24.2	21.3
91.1	15°	79.5	70.7	57.2	46.5	37.8	31.0	27.1	23.3	20.4	16.5
114.4	17.5°	89.2	74.6	56.2	43.6	34.9	27.1	23.3	20.4	15.5	9.7
169.6	20°	105.6	77.5	54.3	40.7	30.0	22.3	17.4	13.6	6.8	1.9
254.9	22.5°	131.8	85.3	52.3	36.8	26.2	17.4	11.6	4.8	0.0	0.0
387.7	25°	182.2	98.9	52.3	34.9	23.3	12.6	3.9	0.0	0.0	0.0
550.5	27.5°	242.3	117.3	52.3	30.0	18.4	6.8	0.0	0.0	0.0	0.0
750.1	30°	303.3	137.6	52.3	26.2	14.5	1.0	0.0	0.0	0.0	0.0
923.6	32.5°	361.5	155.1	53.3	22.3	9.7	0.0	0.0	0.0	0.0	0.0
1163.9	35°	420.6	158.0	52.3	19.4	5.8	0.0	0.0	0.0	0.0	0.0
1458.5	37.5°	496.2	152.2	49.4	17.4	2.9	0.0	0.0	0.0	0.0	0.0
1918.9	40°	610.6	155.1	46.5	16.5	1.0	0.0	0.0	0.0	0.0	0.0
2739.7	42.5°	821.8	167.7	42.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
4364.0	45°	1420.7	224.8	38.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0
6551.3	47.5°	2350.1	404.1	37.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0
7891.6	50°	2999.4	508.8	39.7	18.4	0.0	0.0	0.0	0.0	0.0	0.0
8059.3	52.5°	2994.6	566.9	41.7	19.4	3.9	0.0	0.0	0.0	0.0	0.0
7428.4	55°	2662.2	577.6	44.6	21.3	12.6	0.0	0.0	0.0	0.0	0.0
6383.6	57.5°	2225.1	527.2	51.4	26.2	23.3	0.0	0.0	0.0	0.0	0.0
6219.9	58°	2147.6	503.9	53.3	27.1	25.2	0.0	0.0	0.0	0.0	0.0
5395.1	60°	1759.9	410.9	67.8	33.9	33.9	0.0	0.0	0.0	0.0	0.0
4423.1	62.5°	1215.3	358.6	77.5	43.6	34.9	0.0	0.0	0.0	0.0	0.0
3261.1	65°	859.6	323.7	84.3	46.5	28.1	0.0	0.0	0.0	0.0	0.0
2317.2	67.5°	642.5	298.5	93.0	47.5	14.5	0.0	0.0	0.0	0.0	0.0
1453.7	70°	492.3	280.1	114.4	50.4	3.9	0.0	0.0	0.0	0.0	0.0
866.4	72.5°	401.2	258.8	138.6	52.3	0.0	0.0	0.0	0.0	0.0	0.0
519.5	75°	332.4	233.6	133.7	57.2	0.0	0.0	0.0	0.0	0.0	0.0
277.2	77.5°	221.0	181.2	122.1	57.2	0.0	0.0	0.0	0.0	0.0	0.0
98.9	80°	77.5	71.7	95.0	50.4	0.0	0.0	0.0	0.0	0.0	0.0
20.4	82.5°	11.6	9.7	13.6	17.4	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

REPORT NUMBER: P1065689

CATALOG NUMBER: GLAN-SA5A-950-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
39.7	2.5°	39.7	39.7	38.8	39.7	39.7	41.7	46.5	53.3	61.1	64.0
33.9	5°	33.0	32.0	31.0	31.0	31.0	33.9	37.8	45.5	54.3	58.1
28.1	7.5°	27.1	26.2	25.2	24.2	24.2	26.2	31.0	39.7	48.5	52.3
23.3	10°	22.3	20.4	19.4	18.4	18.4	20.4	25.2	33.9	43.6	47.5
19.4	12.5°	18.4	15.5	13.6	12.6	11.6	14.5	19.4	27.1	37.8	42.6
14.5	15°	12.6	9.7	6.8	5.8	4.8	7.8	12.6	21.3	32.0	37.8
7.8	17.5°	6.8	2.9	1.0	0.0	0.0	1.9	5.8	15.5	26.2	31.0
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	19.4	24.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	11.6	16.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	8.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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	2.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P1065689

CATALOG NUMBER: GLAN-SA5A-950-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
56.2	0°	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
66.9	2.5°	68.8	67.8	65.9	64.0	64.0	64.0	66.9	69.8	72.7	72.7
60.1	5°	64.0	64.0	63.0	61.1	61.1	62.0	65.9	70.7	74.6	75.6
55.2	7.5°	59.1	61.1	59.1	58.1	59.1	60.1	64.0	69.8	75.6	77.5
51.4	10°	56.2	57.2	57.2	56.2	56.2	58.1	62.0	69.8	77.5	80.4
46.5	12.5°	52.3	54.3	53.3	53.3	53.3	55.2	60.1	68.8	79.5	83.3
41.7	15°	48.5	51.4	51.4	50.4	50.4	51.4	58.1	67.8	82.4	89.2
35.9	17.5°	44.6	47.5	48.5	46.5	46.5	48.5	55.2	67.8	84.3	95.9
29.1	20°	36.8	41.7	44.6	41.7	41.7	43.6	50.4	64.0	85.3	102.7
21.3	22.5°	29.1	33.9	37.8	36.8	36.8	37.8	46.5	61.1	86.3	114.4
12.6	25°	21.3	26.2	29.1	31.0	31.0	33.9	42.6	59.1	90.1	138.6
5.8	27.5°	12.6	18.4	22.3	24.2	25.2	29.1	39.7	57.2	96.9	173.5
0.0	30°	5.8	10.7	15.5	19.4	19.4	26.2	36.8	55.2	105.6	223.9
0.0	32.5°	0.0	4.8	7.8	13.6	14.5	21.3	33.9	53.3	118.2	272.3
0.0	35°	0.0	0.0	3.9	10.7	10.7	17.4	31.0	51.4	137.6	309.2
0.0	37.5°	0.0	0.0	0.0	7.8	8.7	15.5	30.0	50.4	141.5	312.1
0.0	40°	0.0	0.0	0.0	5.8	6.8	14.5	30.0	51.4	127.9	305.3
0.0	42.5°	0.0	0.0	0.0	3.9	4.8	14.5	30.0	53.3	115.3	313.0
0.0	45°	0.0	0.0	0.0	2.9	3.9	15.5	29.1	52.3	108.5	353.7
0.0	47.5°	0.0	0.0	0.0	3.9	5.8	15.5	28.1	51.4	109.5	488.4
0.0	50°	0.0	0.0	0.0	4.8	6.8	15.5	29.1	49.4	120.2	751.1
0.0	52.5°	0.0	0.0	0.0	3.9	5.8	17.4	32.0	48.5	130.8	976.9
0.0	55°	0.0	0.0	0.0	1.0	2.9	22.3	34.9	48.5	147.3	1033.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	25.2	39.7	51.4	174.4	1010.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	25.2	40.7	51.4	176.4	991.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	25.2	44.6	57.2	189.9	882.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	21.3	53.3	71.7	197.7	693.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	17.4	63.0	78.5	203.5	552.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	16.5	64.9	79.5	206.4	440.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	17.4	64.0	85.3	216.1	357.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	19.4	58.1	94.0	216.1	316.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	20.4	54.3	105.6	196.7	274.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	19.4	53.3	123.1	175.4	225.8
0.0	80°	1.9	2.9	2.9	1.9	1.9	16.5	52.3	125.0	149.2	155.1
1.0	82.5°	5.8	7.8	6.8	4.8	4.8	14.5	46.5	104.7	77.5	66.9
5.8	85°	10.7	12.6	12.6	10.7	10.7	13.6	29.1	37.8	26.2	21.3
10.7	87.5°	14.5	16.5	16.5	14.5	14.5	13.6	12.6	11.6	10.7	10.7
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: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

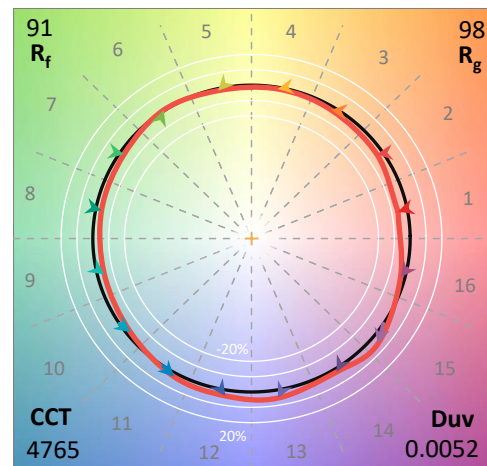
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 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-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

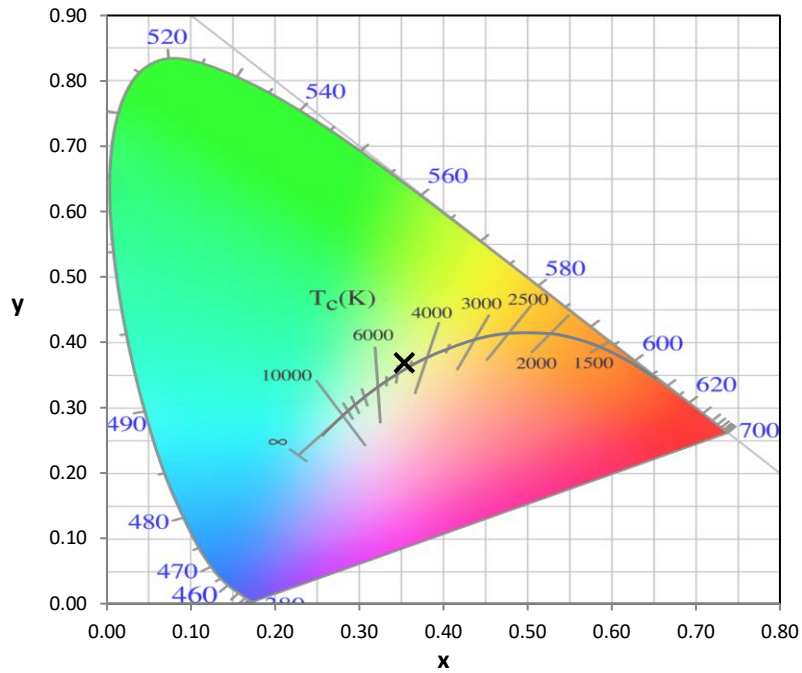
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

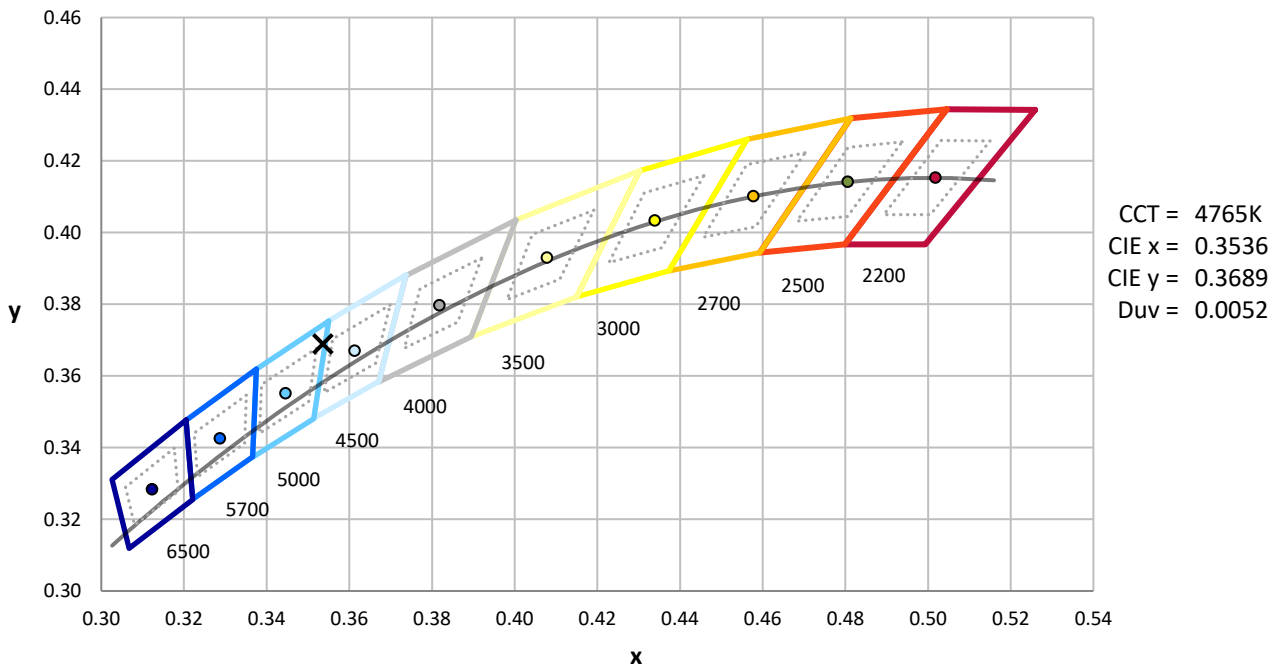
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



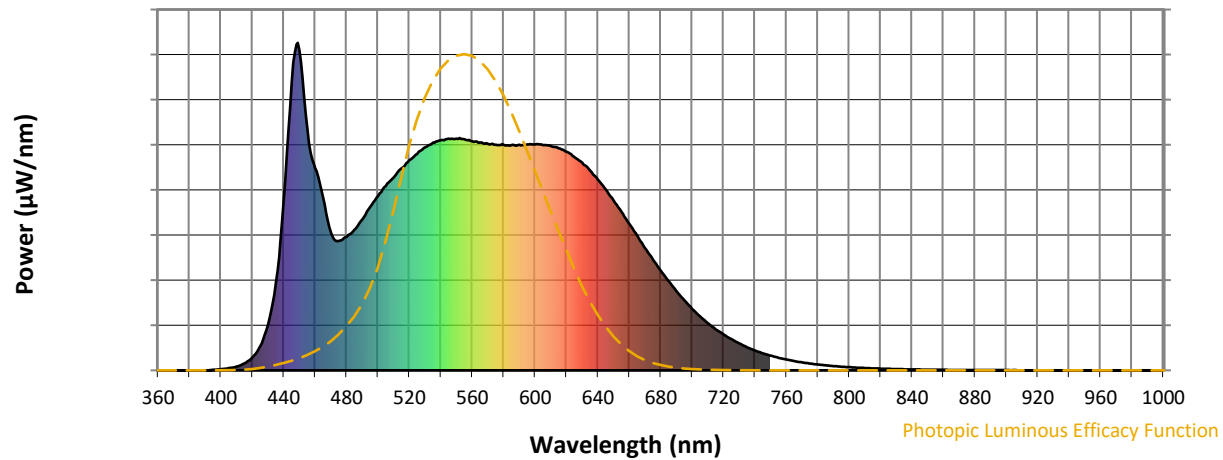
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

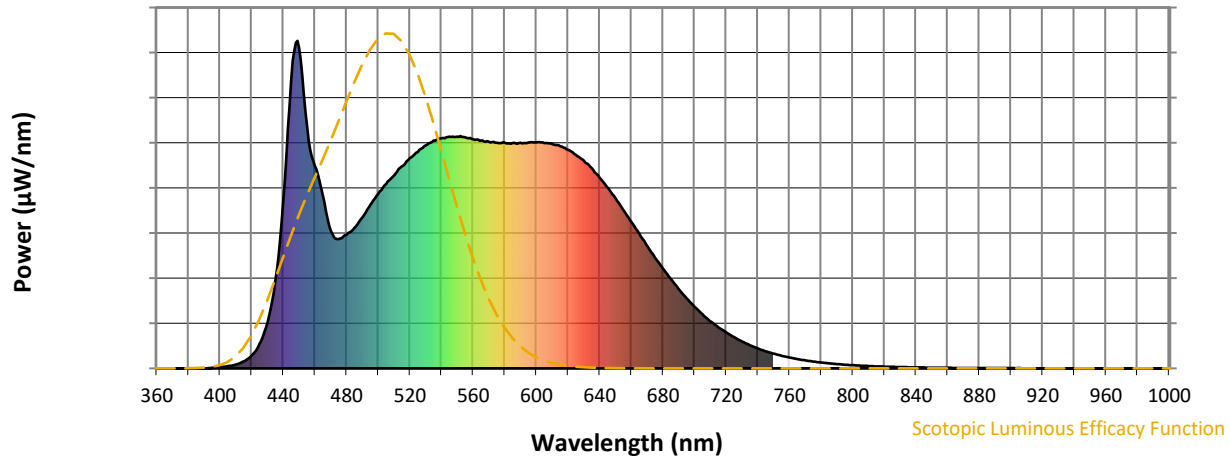


Photopic Lumens: NR

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



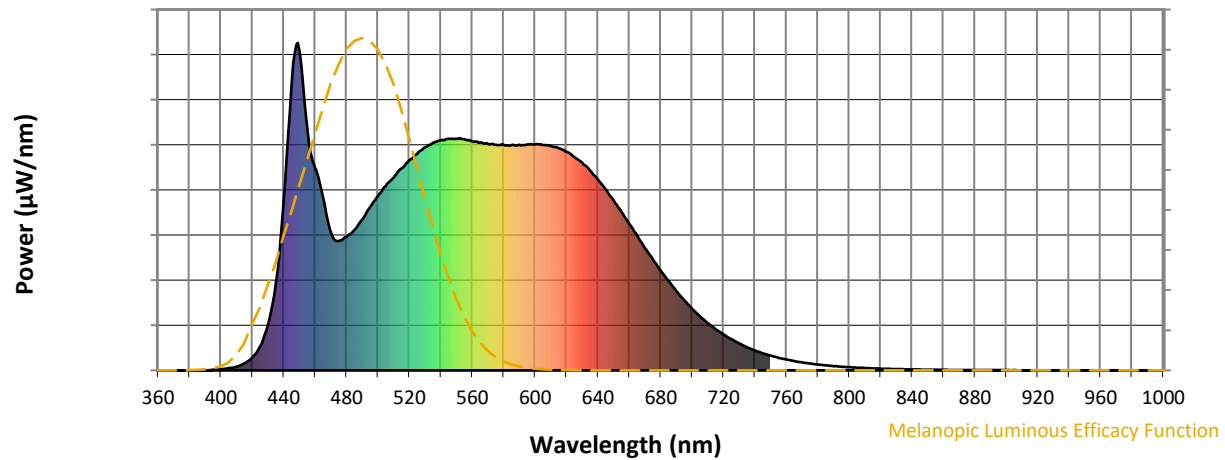
Scotopic Lumens: NR

S/P: 1.99

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	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

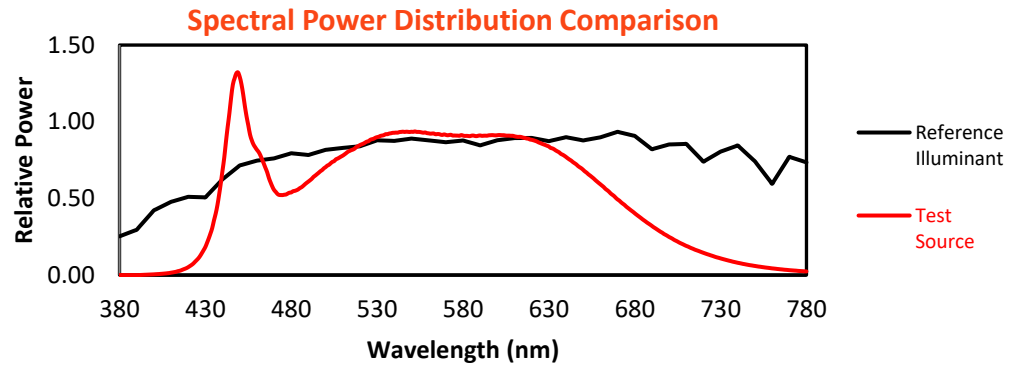
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

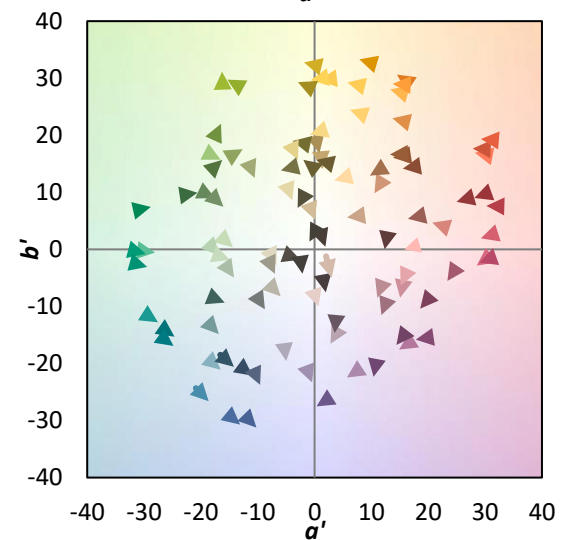
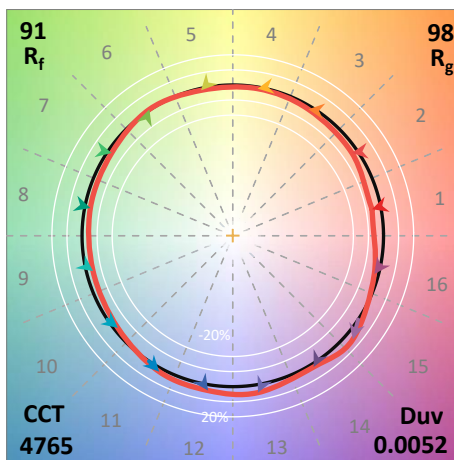
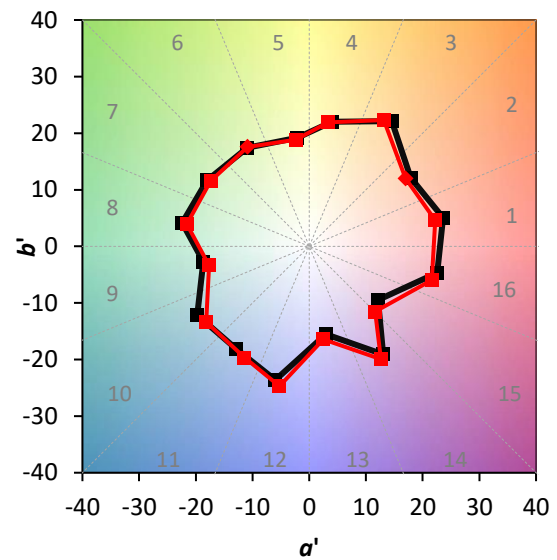
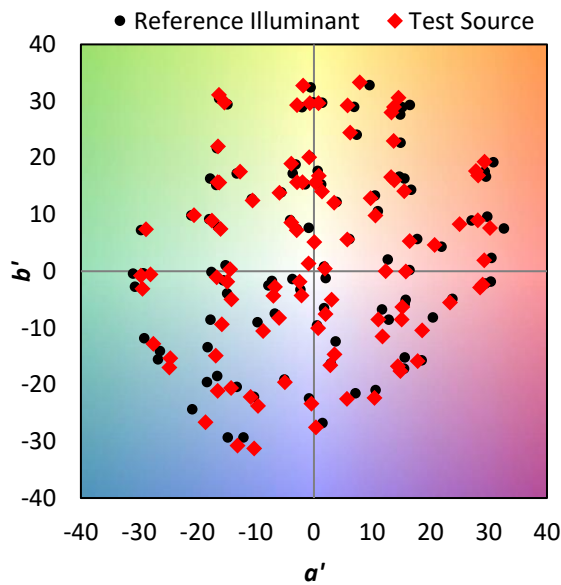
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

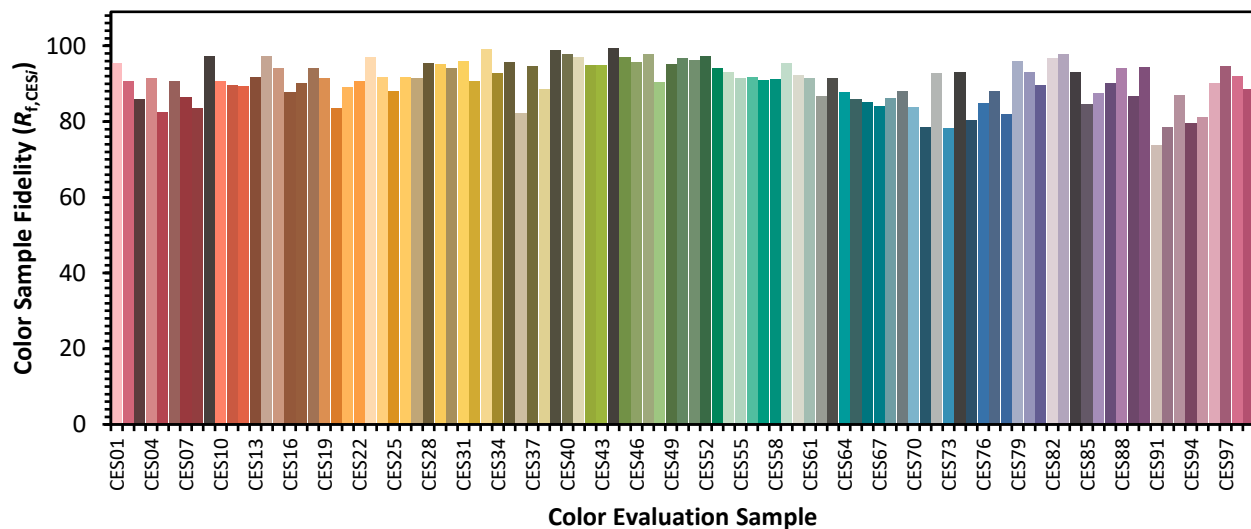


Color Vector Graphics

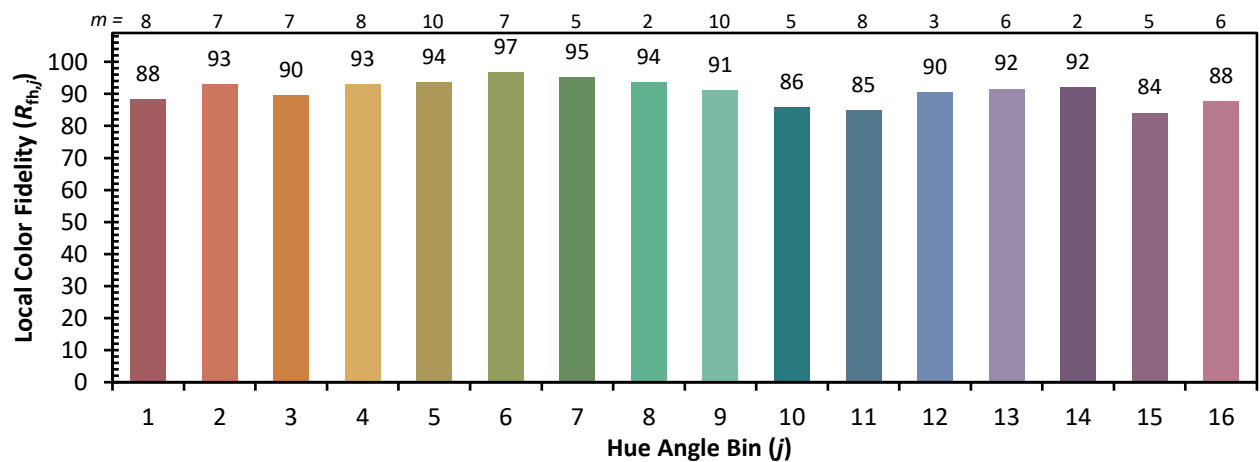
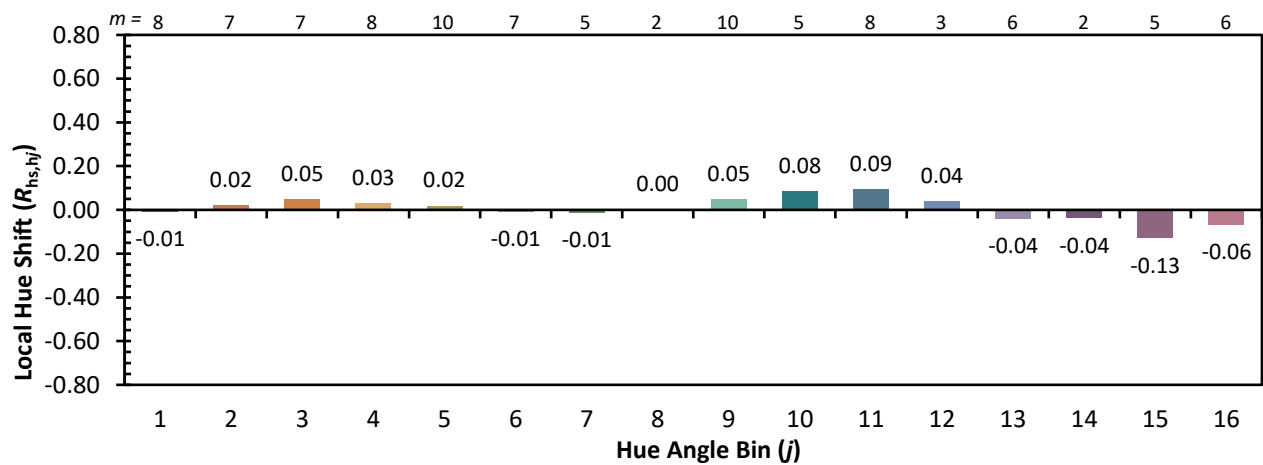
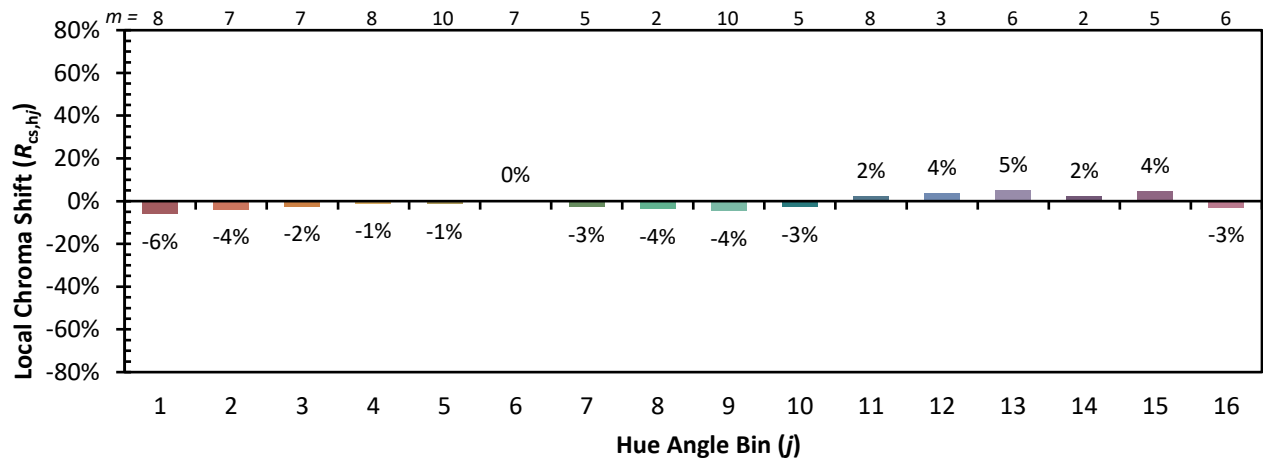


Individual Sample Fidelity Index ($R_{f,i}$)

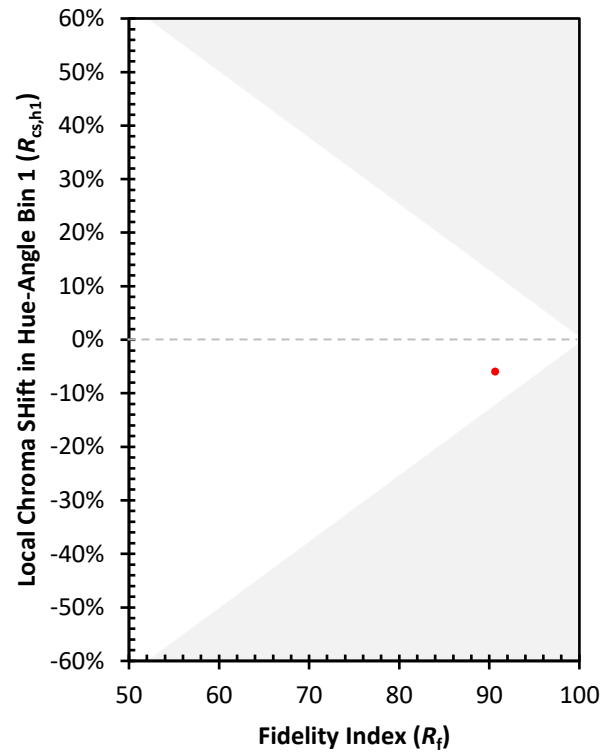
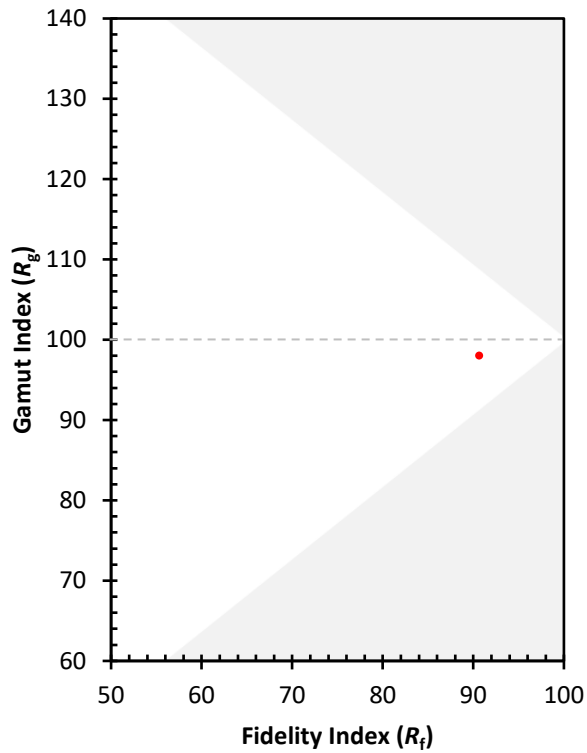
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)