

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1050047

Luminaire Tested: **GALN-SA3C-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050047
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12233.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

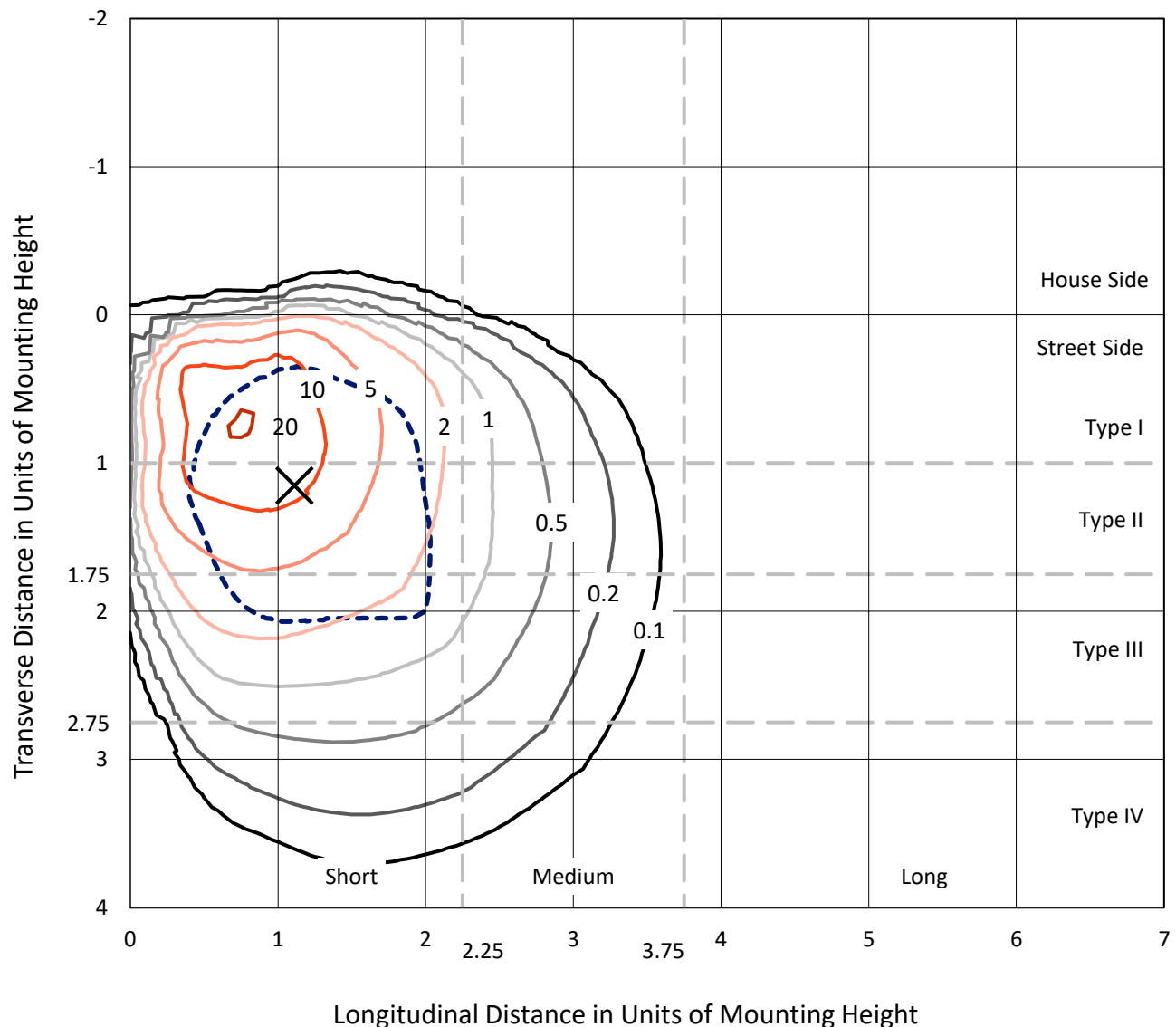
Input Watts (W): 140.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P1050047

CATALOG NUMBER: GALN-SA3C-950-U-LBC

Iso-Footcandle Lines of Horizontal Illumination

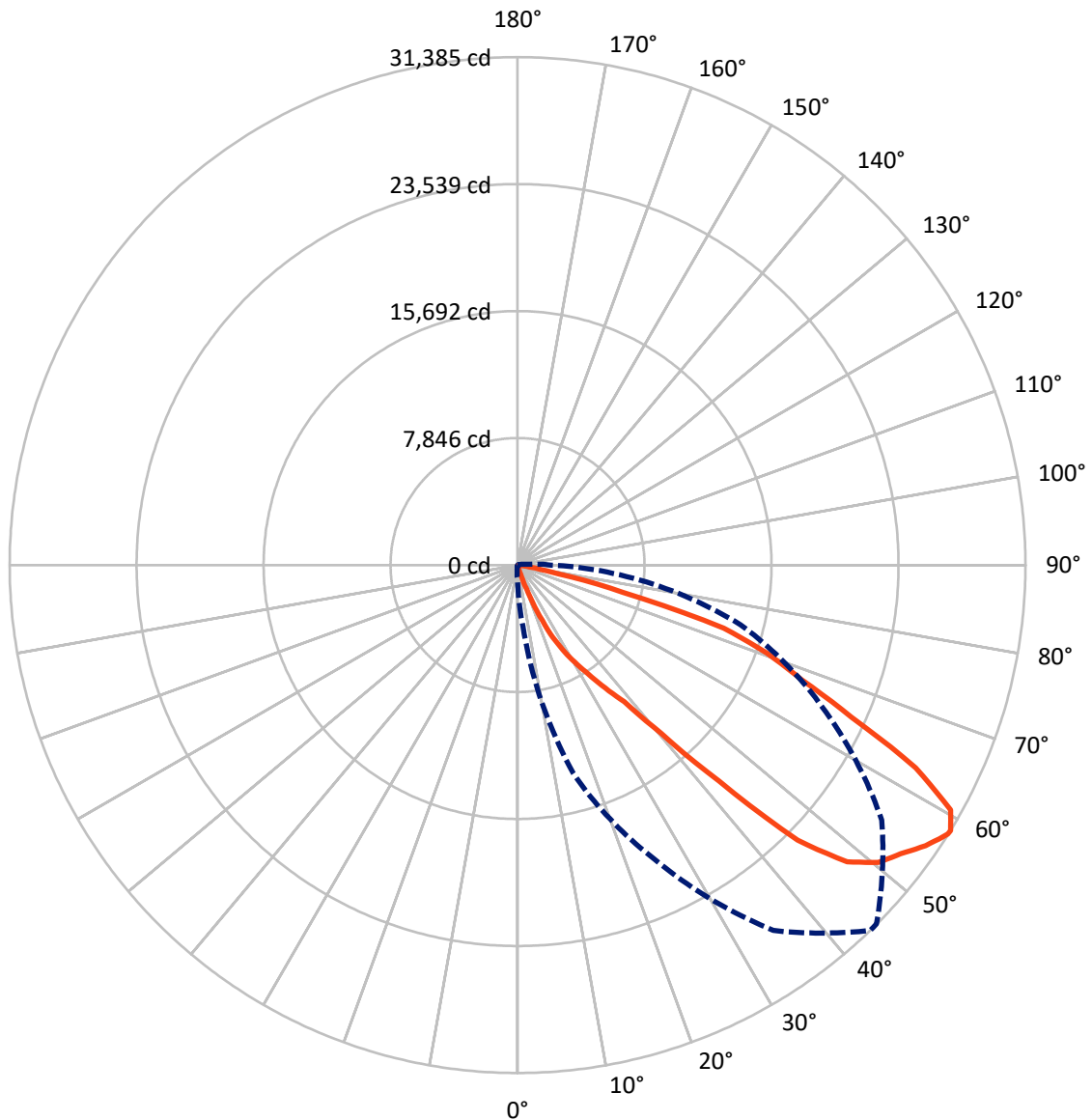
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.3 fc
 Type III - Short - N/A

REPORT NUMBER: P1050047
CATALOG NUMBER: GALN-SA3C-950-U-LBC

Luminous Intensity Polar Plot



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

REPORT NUMBER: P1050047

CATALOG NUMBER: GALN-SA3C-950-U-LBC

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	83.5	0.0	83.5
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	12150.4	0.0	12150.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	12233.9	0.0	12233.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.8	0.0
10°-20°	26.8	0.2
20°-30°	289.8	2.4
30°-40°	857.1	7.0
40°-50°	2554.6	20.9
50°-60°	4053.6	33.1
60°-70°	3381.2	27.6
70°-80°	1042.8	8.5
80°-90°	23.2	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°	12233.9	100.0
0°-180°	12233.9	100.0

Coefficient of Utilization



REPORT NUMBER: P1050047

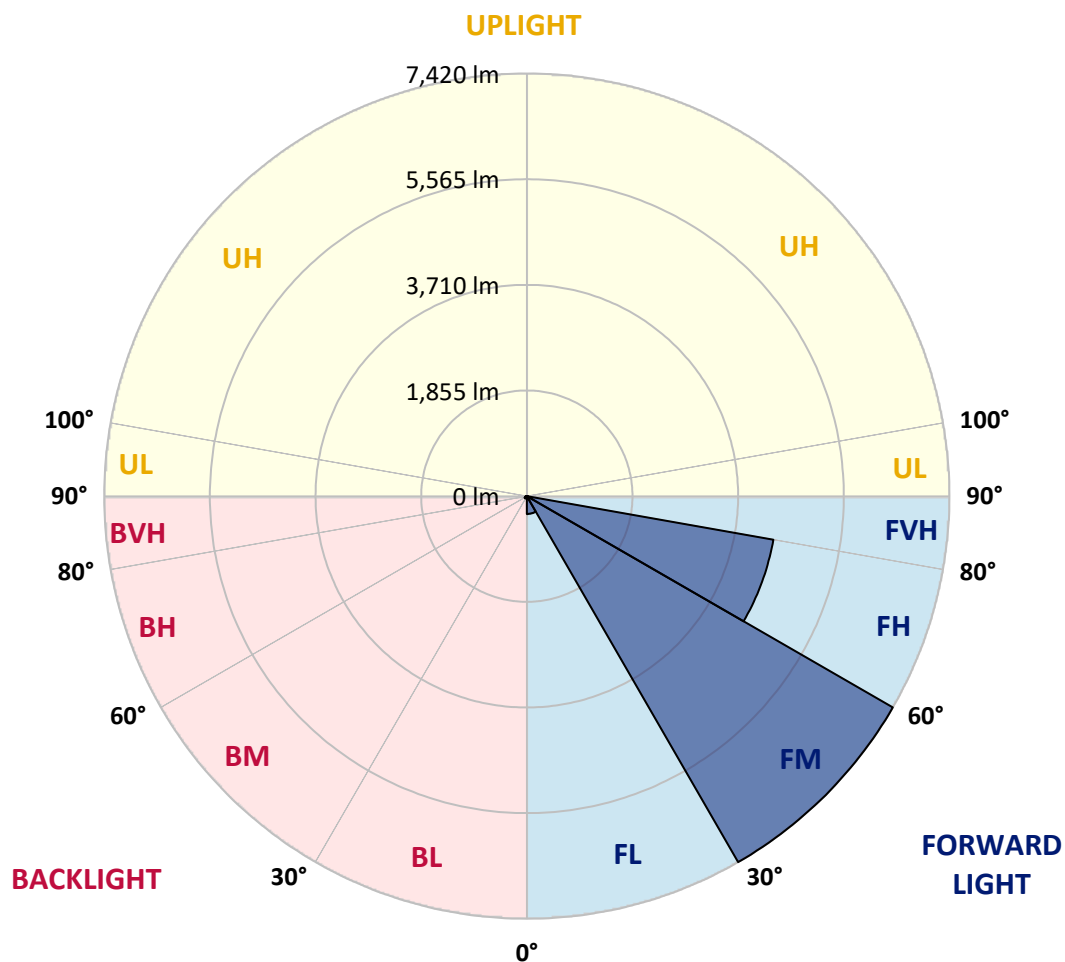
CATALOG NUMBER: GALN-SA3C-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.3	2.6			
FM	(30°-60°)	7419.6	60.6			
FH	(60°-80°)	4395.5	35.9			G2/5000
FVH	(80°-90°)	22.0	0.2			G1/100
BL	(0°-30°)	8.2	0.1	B0/110		
BM	(30°-60°)	45.7	0.4	B0/220		
BH	(60°-80°)	28.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.1	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: P1050047

CATALOG NUMBER: GALN-SA3C-950-U-LBC

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.5°	69.3	69.3	66.5	62.8	59.1	55.4	54.5	52.7	51.8	50.8
5°	72.1	72.1	71.2	68.4	64.7	61.9	61.9	59.1	57.3	55.4
7.5°	73.9	74.9	76.7	75.8	73.9	71.2	71.2	69.3	66.5	61.9
10°	76.7	79.5	83.2	85.0	85.9	85.9	85.0	84.1	79.5	73.0
12.5°	79.5	85.0	94.3	103.5	109.1	116.4	115.5	113.7	101.7	87.8
15°	85.0	93.3	112.7	139.5	181.1	207.0	217.2	207.9	168.2	118.3
17.5°	91.5	105.4	163.6	292.0	478.7	567.4	621.0	577.6	382.6	224.6
20°	98.0	128.5	304.1	756.9	1242.1	1532.3	1612.7	1487.0	954.7	427.9
22.5°	109.1	180.2	616.4	1564.6	2676.4	3111.7	3193.9	2791.9	1803.0	844.7
25°	132.2	261.5	1062.8	2549.8	3994.2	4729.0	4694.8	4168.0	2925.0	1349.3
27.5°	165.4	380.8	1607.1	3622.7	5256.7	5904.5	5982.1	5330.6	3899.1	1984.2
30°	213.5	527.7	2191.2	4482.2	6268.6	6969.1	6982.1	6308.4	4770.5	2541.5
32.5°	259.7	666.3	2702.3	5313.0	7265.8	8033.8	8091.1	7262.1	5421.2	3121.8
35°	294.8	756.9	3219.8	6043.1	8271.3	9329.5	9325.8	8341.5	6191.9	3640.3
37.5°	297.6	847.5	3688.3	6789.9	9544.8	10729.6	10846.9	9762.0	7123.5	4281.7
40°	291.1	949.1	4281.7	7954.3	11839.5	13657.3	13760.8	12393.1	8992.1	5379.6
42.5°	298.5	1125.6	5244.6	10104.8	15649.8	18260.6	18460.2	17022.2	12427.3	7619.8
45°	337.3	1457.4	7262.1	13702.6	21081.2	24264.0	24197.5	22126.4	16424.3	11029.9
47.5°	465.8	2269.8	10252.7	17204.3	24552.3	27386.7	27444.0	24912.8	18756.9	13651.8
50°	716.2	3473.0	12765.5	19055.4	26044.9	28888.5	28834.9	25909.9	19643.2	14942.8
52.5°	931.6	4343.6	14026.1	19705.1	26236.2	29630.6	29626.9	26172.4	19780.9	15053.7
55°	985.2	4409.2	14036.2	19740.2	26665.0	30601.9	30723.9	26818.4	19959.2	14569.5
57.5°	963.9	3903.7	13450.3	19943.5	27428.3	31353.3	31359.7	27444.0	20412.1	14272.8
58°	945.4	3824.2	13332.0	20059.0	27559.6	31384.7	31369.0	27472.7	20780.8	14261.7
60°	841.9	3320.5	12870.9	20353.8	27364.6	30739.6	30592.7	26847.0	20726.3	14148.1
62.5°	661.7	2590.4	12417.1	20012.8	25274.1	27616.9	27677.9	23768.6	18894.6	13485.4
65°	526.8	1930.6	11470.8	17554.5	20812.2	22679.0	22906.4	19328.0	15770.9	11419.0
67.5°	419.6	1395.5	9622.4	13976.2	16468.6	18927.9	19093.3	16227.4	12218.4	8749.1
70°	341.0	943.6	6642.0	10221.3	13583.4	16348.5	16358.7	13480.8	9119.7	5732.6
72.5°	302.2	653.4	3855.6	7454.3	11014.2	13321.9	13052.9	10939.4	7008.9	3395.4
75°	261.5	433.4	1890.8	4557.1	6678.0	6723.3	6825.9	5074.6	3503.5	1614.5
77.5°	215.3	307.7	744.9	1244.9	2002.7	2563.6	2658.8	2014.7	1165.4	397.4
80°	147.9	146.0	200.5	381.7	573.0	718.1	670.0	518.5	305.0	152.5
82.5°	63.8	69.3	90.6	109.1	88.7	85.9	82.3	52.7	40.7	31.4
85°	20.3	18.5	19.4	19.4	15.7	12.0	12.0	5.5	0.0	0.0
87.5°	10.2	8.3	8.3	7.4	4.6	1.8	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



REPORT NUMBER: P1050047

CATALOG NUMBER: GALN-SA3C-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
53.6	0°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
49.9	2.5°	49.0	49.0	47.1	45.3	44.4	42.5	41.6	40.7	39.7	38.8
53.6	5°	51.8	50.8	48.1	45.3	42.5	39.7	37.9	36.0	34.2	33.3
59.1	7.5°	56.4	54.5	49.0	44.4	40.7	37.0	35.1	32.3	30.5	27.7
65.6	10°	61.9	58.2	50.8	45.3	39.7	35.1	32.3	29.6	26.8	23.1
74.9	12.5°	69.3	62.8	53.6	44.4	37.9	32.3	29.6	25.9	23.1	20.3
86.9	15°	75.8	67.5	54.5	44.4	36.0	29.6	25.9	22.2	19.4	15.7
109.1	17.5°	85.0	71.2	53.6	41.6	33.3	25.9	22.2	19.4	14.8	9.2
161.7	20°	100.7	73.9	51.8	38.8	28.6	21.3	16.6	12.9	6.5	1.8
243.1	22.5°	125.7	81.3	49.9	35.1	25.0	16.6	11.1	4.6	0.0	0.0
369.7	25°	173.7	94.3	49.9	33.3	22.2	12.0	3.7	0.0	0.0	0.0
524.9	27.5°	231.0	111.8	49.9	28.6	17.6	6.5	0.0	0.0	0.0	0.0
715.3	30°	289.3	131.2	49.9	25.0	13.9	0.9	0.0	0.0	0.0	0.0
880.7	32.5°	344.7	147.9	50.8	21.3	9.2	0.0	0.0	0.0	0.0	0.0
1109.9	35°	401.1	150.6	49.9	18.5	5.5	0.0	0.0	0.0	0.0	0.0
1390.9	37.5°	473.2	145.1	47.1	16.6	2.8	0.0	0.0	0.0	0.0	0.0
1829.8	40°	582.2	147.9	44.4	15.7	0.9	0.0	0.0	0.0	0.0	0.0
2612.6	42.5°	783.7	159.9	40.7	15.7	0.0	0.0	0.0	0.0	0.0	0.0
4161.5	45°	1354.8	214.4	37.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0
6247.4	47.5°	2241.1	385.4	36.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0
7525.5	50°	2860.3	485.2	37.9	17.6	0.0	0.0	0.0	0.0	0.0	0.0
7685.4	52.5°	2855.7	540.6	39.7	18.5	3.7	0.0	0.0	0.0	0.0	0.0
7083.7	55°	2538.7	550.8	42.5	20.3	12.0	0.0	0.0	0.0	0.0	0.0
6087.5	57.5°	2121.9	502.7	49.0	25.0	22.2	0.0	0.0	0.0	0.0	0.0
5931.3	58°	2048.0	480.6	50.8	25.9	24.0	0.0	0.0	0.0	0.0	0.0
5144.8	60°	1678.3	391.8	64.7	32.3	32.3	0.0	0.0	0.0	0.0	0.0
4217.9	62.5°	1158.9	341.9	73.9	41.6	33.3	0.0	0.0	0.0	0.0	0.0
3109.8	65°	819.7	308.7	80.4	44.4	26.8	0.0	0.0	0.0	0.0	0.0
2209.7	67.5°	612.7	284.6	88.7	45.3	13.9	0.0	0.0	0.0	0.0	0.0
1386.2	70°	469.5	267.1	109.1	48.1	3.7	0.0	0.0	0.0	0.0	0.0
826.2	72.5°	382.6	246.8	132.2	49.9	0.0	0.0	0.0	0.0	0.0	0.0
495.4	75°	317.0	222.7	127.5	54.5	0.0	0.0	0.0	0.0	0.0	0.0
264.3	77.5°	210.7	172.8	116.4	54.5	0.0	0.0	0.0	0.0	0.0	0.0
94.3	80°	73.9	68.4	90.6	48.1	0.0	0.0	0.0	0.0	0.0	0.0
19.4	82.5°	11.1	9.2	12.9	16.6	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: P1050047

CATALOG NUMBER: GALN-SA3C-950-U-LBC

CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
53.6	0°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
37.9	2.5°	37.9	37.9	37.0	37.9	37.9	39.7	44.4	50.8	58.2	61.0
32.3	5°	31.4	30.5	29.6	29.6	29.6	32.3	36.0	43.4	51.8	55.4
26.8	7.5°	25.9	25.0	24.0	23.1	23.1	25.0	29.6	37.9	46.2	49.9
22.2	10°	21.3	19.4	18.5	17.6	17.6	19.4	24.0	32.3	41.6	45.3
18.5	12.5°	17.6	14.8	12.9	12.0	11.1	13.9	18.5	25.9	36.0	40.7
13.9	15°	12.0	9.2	6.5	5.5	4.6	7.4	12.0	20.3	30.5	36.0
7.4	17.5°	6.5	2.8	0.9	0.0	0.0	1.8	5.5	14.8	25.0	29.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	18.5	23.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.1	15.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	8.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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	2.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	7.4
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: P1050047

CATALOG NUMBER: GALN-SA3C-950-U-LBC

CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
53.6	0°	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
63.8	2.5°	65.6	64.7	62.8	61.0	61.0	61.0	63.8	66.5	69.3	69.3
57.3	5°	61.0	61.0	60.1	58.2	58.2	59.1	62.8	67.5	71.2	72.1
52.7	7.5°	56.4	58.2	56.4	55.4	56.4	57.3	61.0	66.5	72.1	73.9
49.0	10°	53.6	54.5	54.5	53.6	53.6	55.4	59.1	66.5	73.9	76.7
44.4	12.5°	49.9	51.8	50.8	50.8	50.8	52.7	57.3	65.6	75.8	79.5
39.7	15°	46.2	49.0	49.0	48.1	48.1	49.0	55.4	64.7	78.6	85.0
34.2	17.5°	42.5	45.3	46.2	44.4	44.4	46.2	52.7	64.7	80.4	91.5
27.7	20°	35.1	39.7	42.5	39.7	39.7	41.6	48.1	61.0	81.3	98.0
20.3	22.5°	27.7	32.3	36.0	35.1	35.1	36.0	44.4	58.2	82.3	109.1
12.0	25°	20.3	25.0	27.7	29.6	29.6	32.3	40.7	56.4	85.9	132.2
5.5	27.5°	12.0	17.6	21.3	23.1	24.0	27.7	37.9	54.5	92.4	165.4
0.0	30°	5.5	10.2	14.8	18.5	18.5	25.0	35.1	52.7	100.7	213.5
0.0	32.5°	0.0	4.6	7.4	12.9	13.9	20.3	32.3	50.8	112.7	259.7
0.0	35°	0.0	0.0	3.7	10.2	10.2	16.6	29.6	49.0	131.2	294.8
0.0	37.5°	0.0	0.0	0.0	7.4	8.3	14.8	28.6	48.1	134.9	297.6
0.0	40°	0.0	0.0	0.0	5.5	6.5	13.9	28.6	49.0	122.0	291.1
0.0	42.5°	0.0	0.0	0.0	3.7	4.6	13.9	28.6	50.8	110.0	298.5
0.0	45°	0.0	0.0	0.0	2.8	3.7	14.8	27.7	49.9	103.5	337.3
0.0	47.5°	0.0	0.0	0.0	3.7	5.5	14.8	26.8	49.0	104.4	465.8
0.0	50°	0.0	0.0	0.0	4.6	6.5	14.8	27.7	47.1	114.6	716.2
0.0	52.5°	0.0	0.0	0.0	3.7	5.5	16.6	30.5	46.2	124.8	931.6
0.0	55°	0.0	0.0	0.0	0.9	2.8	21.3	33.3	46.2	140.5	985.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	24.0	37.9	49.0	166.3	963.9
0.0	58°	0.0	0.0	0.0	0.0	0.0	24.0	38.8	49.0	168.2	945.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	24.0	42.5	54.5	181.1	841.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	20.3	50.8	68.4	188.5	661.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	16.6	60.1	74.9	194.1	526.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	15.7	61.9	75.8	196.8	419.6
0.0	70°	0.0	0.0	0.0	0.0	0.0	16.6	61.0	81.3	206.1	341.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	18.5	55.4	89.6	206.1	302.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	19.4	51.8	100.7	187.6	261.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	18.5	50.8	117.4	167.3	215.3
0.0	80°	1.8	2.8	2.8	1.8	1.8	15.7	49.9	119.2	142.3	147.9
0.9	82.5°	5.5	7.4	6.5	4.6	4.6	13.9	44.4	99.8	73.9	63.8
5.5	85°	10.2	12.0	12.0	10.2	10.2	12.9	27.7	36.0	25.0	20.3
10.2	87.5°	13.9	15.7	15.7	13.9	13.9	12.9	12.0	11.1	10.2	10.2
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: SP1-2407-184-17

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

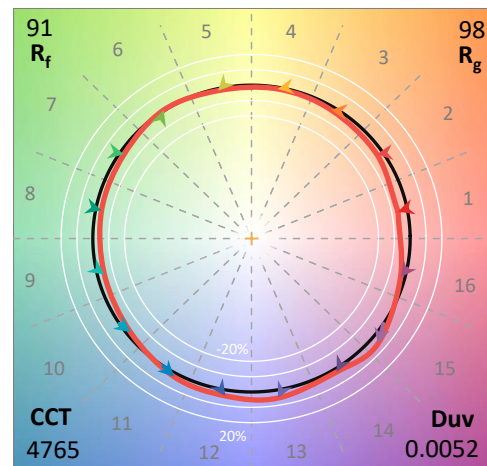
Test Information

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

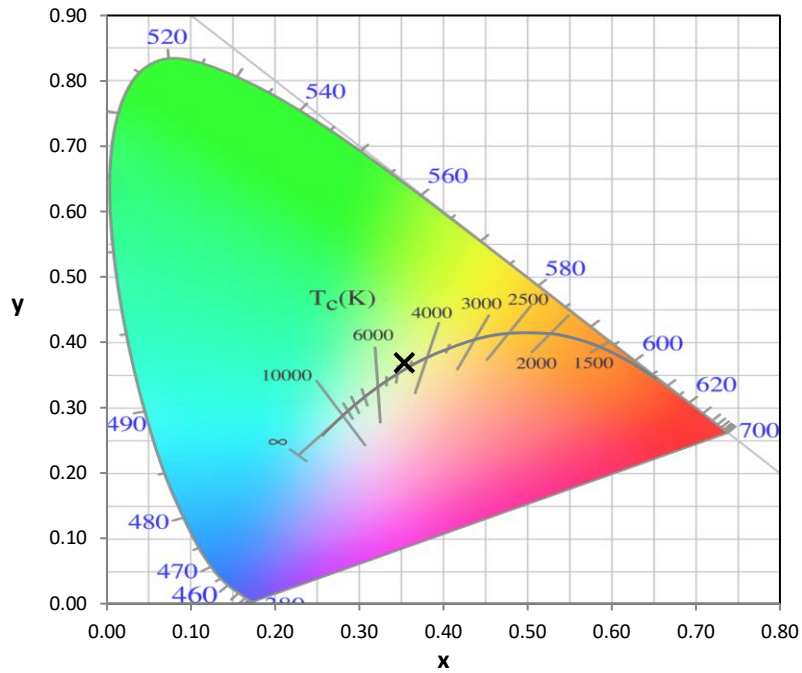
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

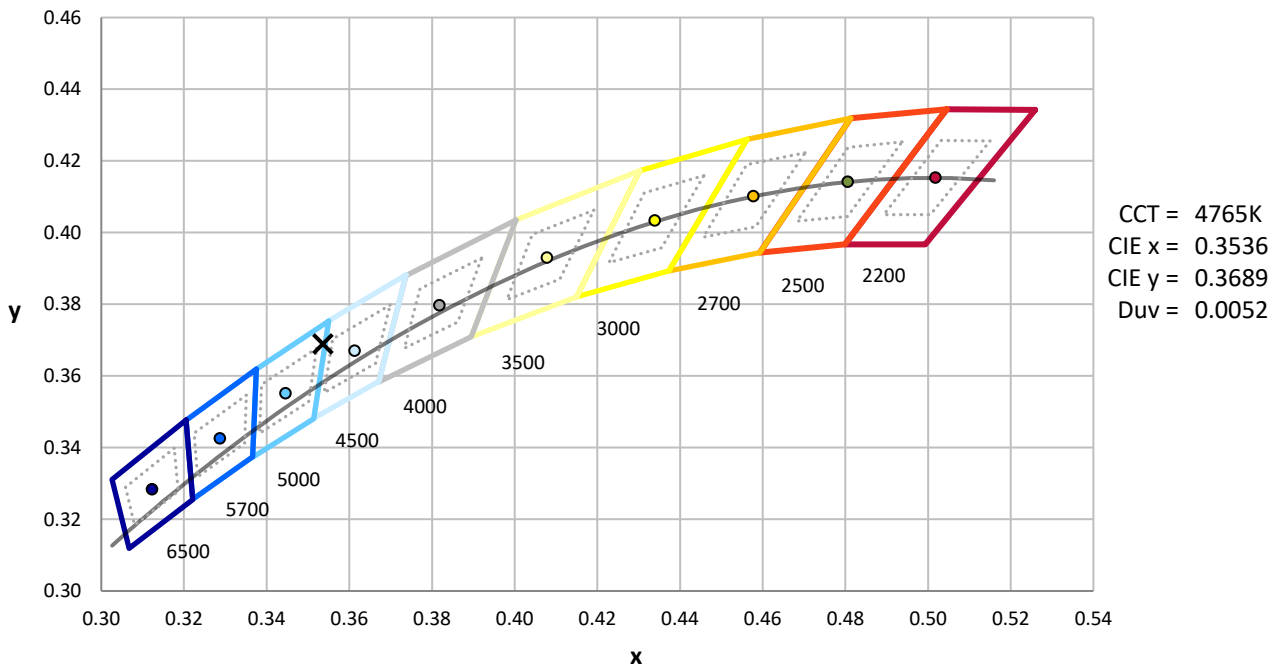
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



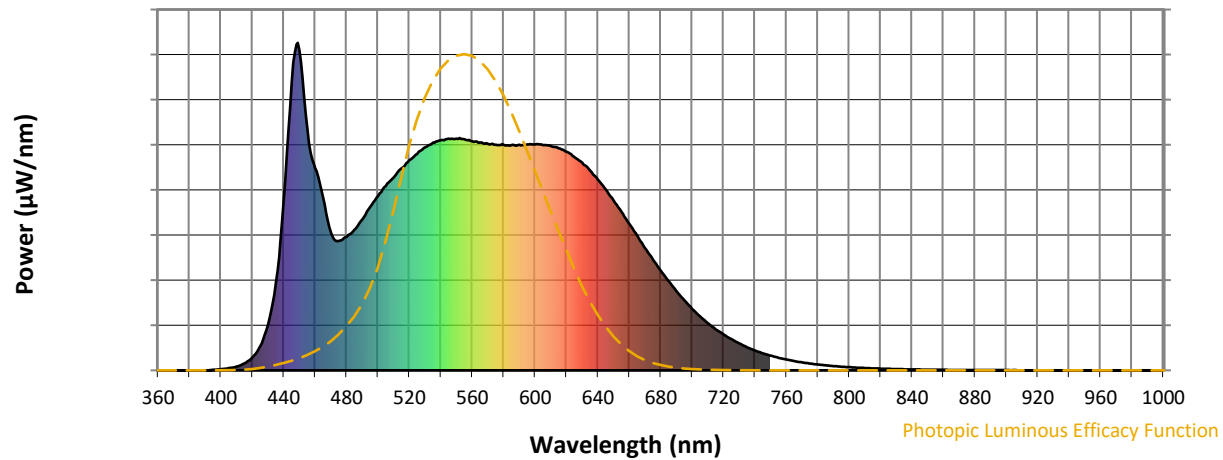
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

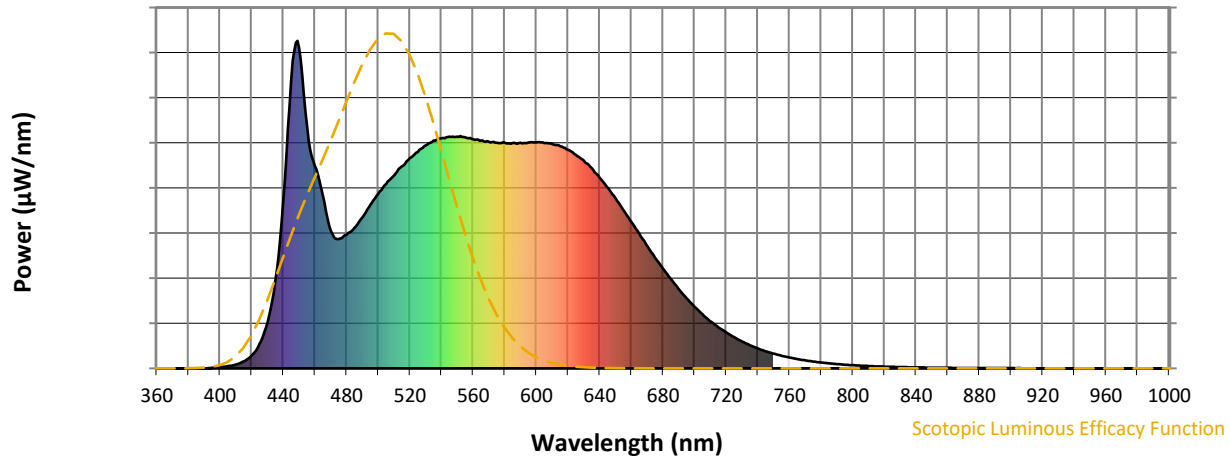


Photopic Lumens: NR

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



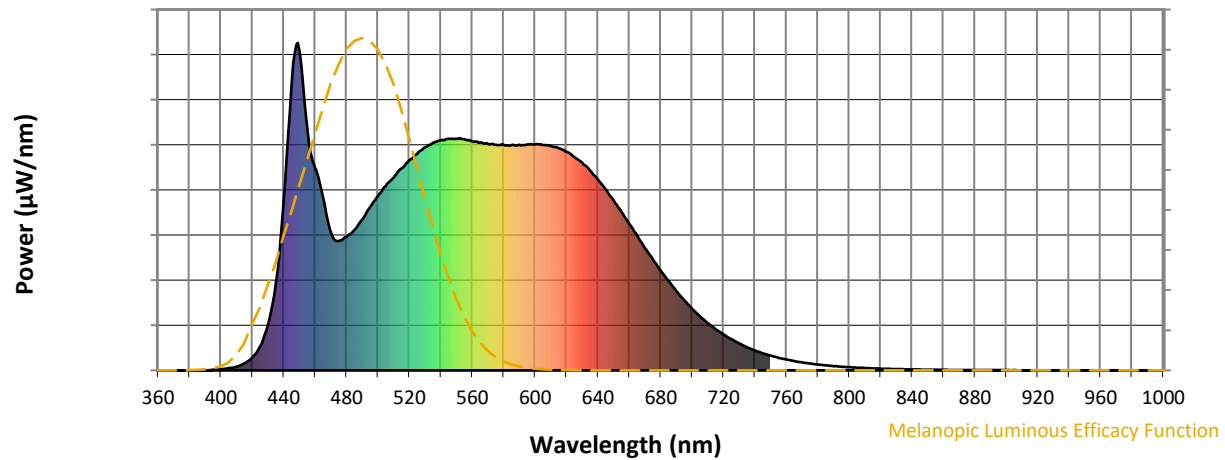
Scotopic Lumens: NR

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

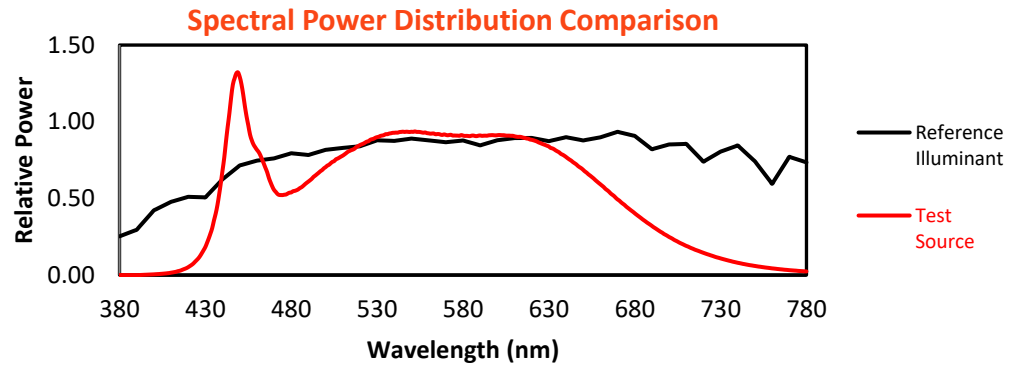
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	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

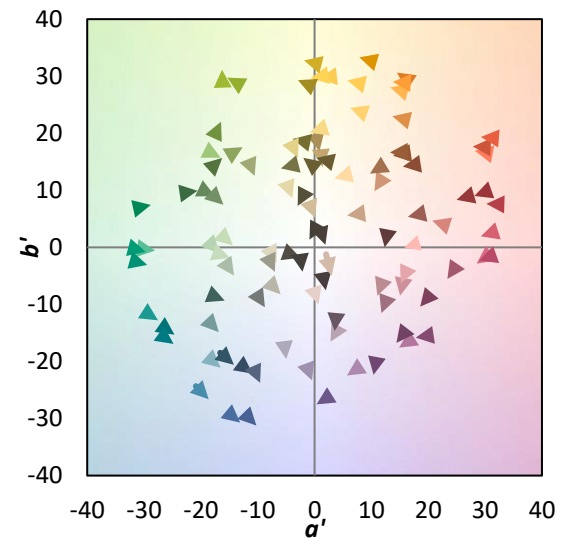
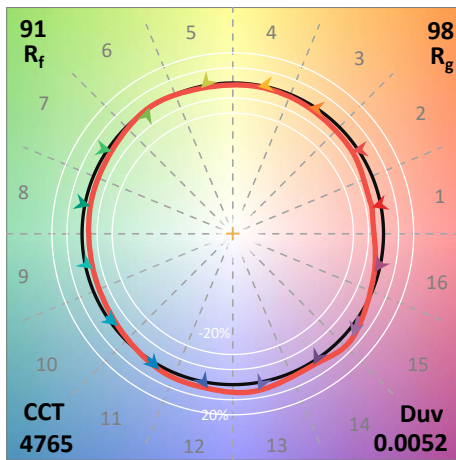
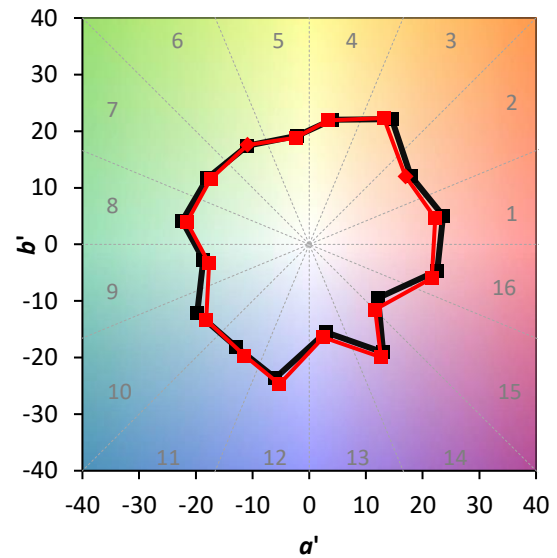
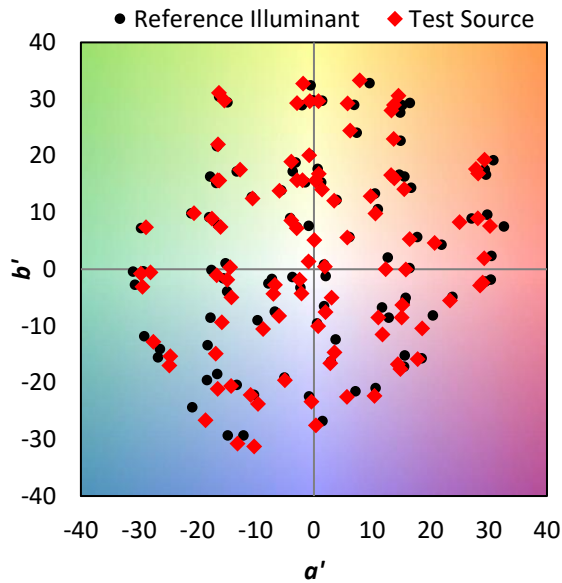
TM-30-18

Summary

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

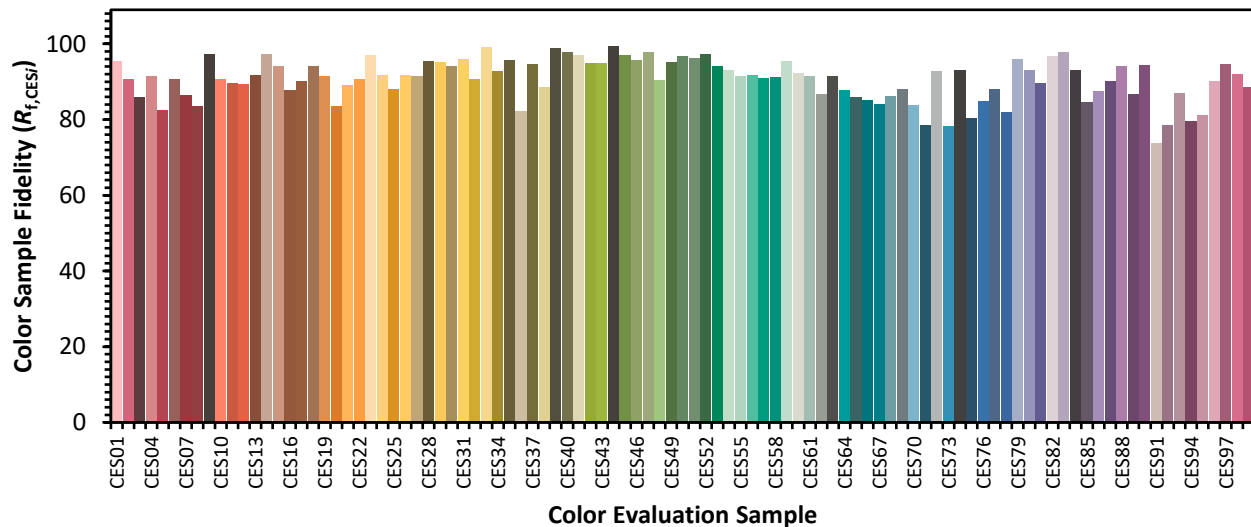


Color Vector Graphics

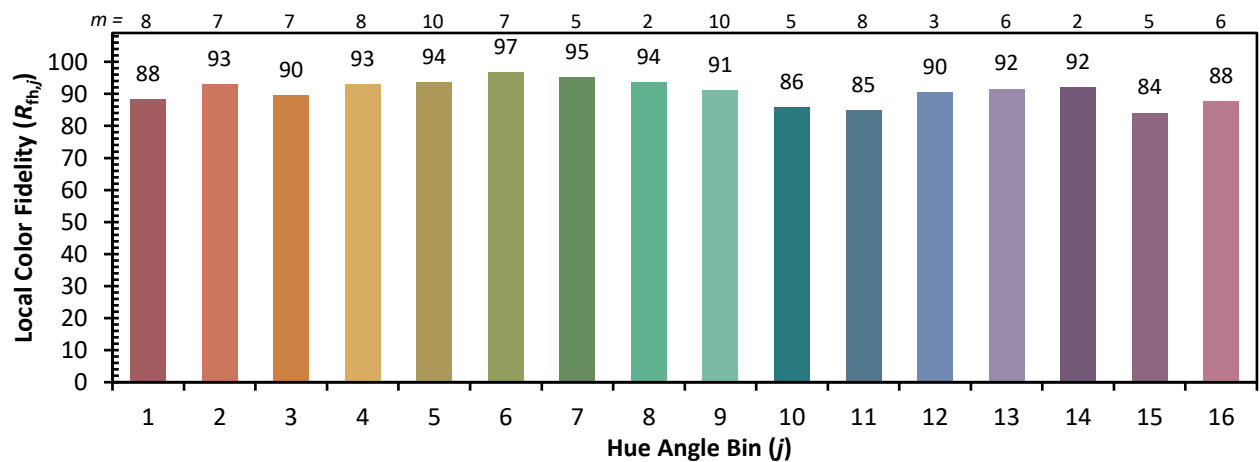
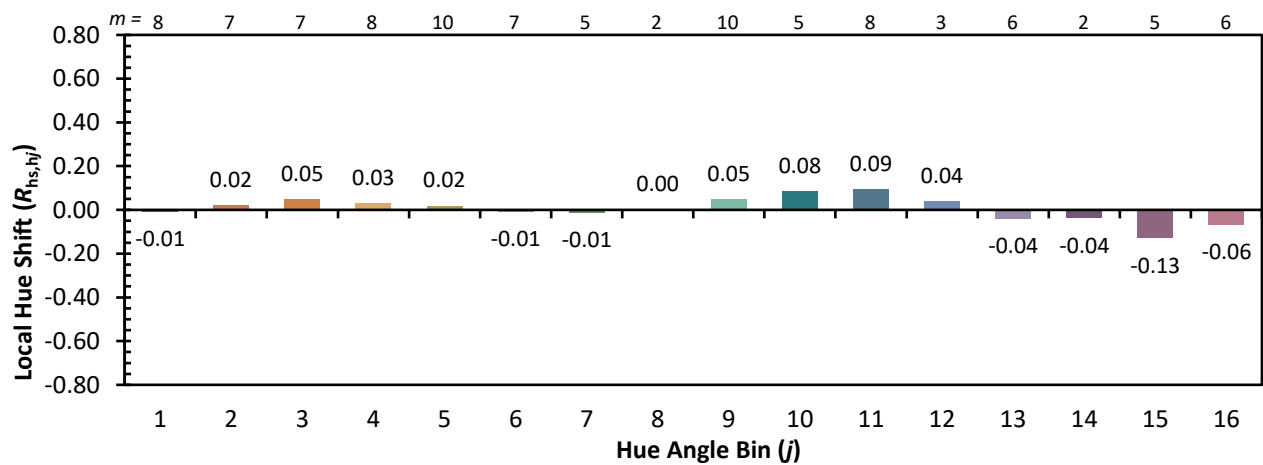
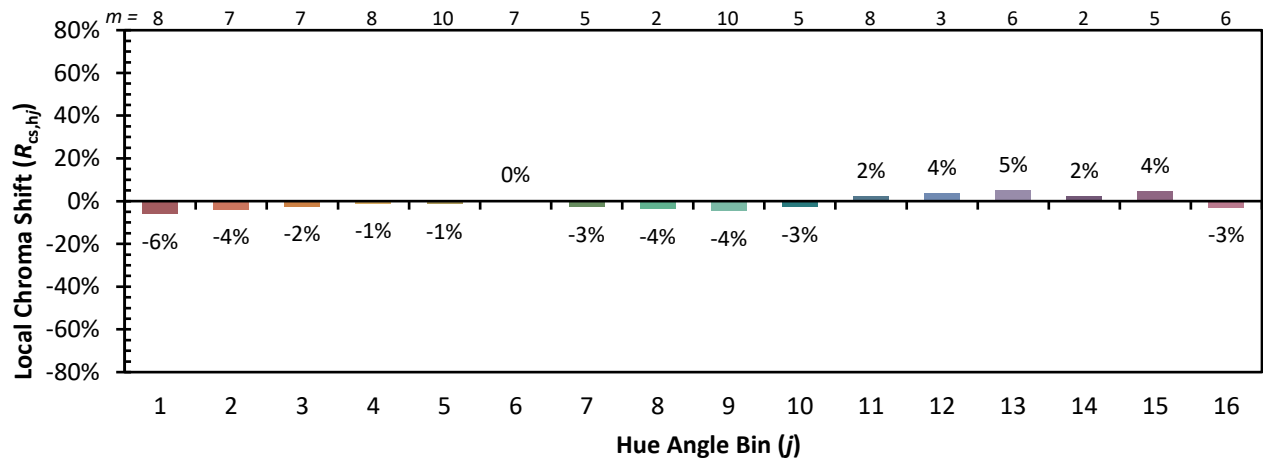


Individual Sample Fidelity Index ($R_{f,i}$)

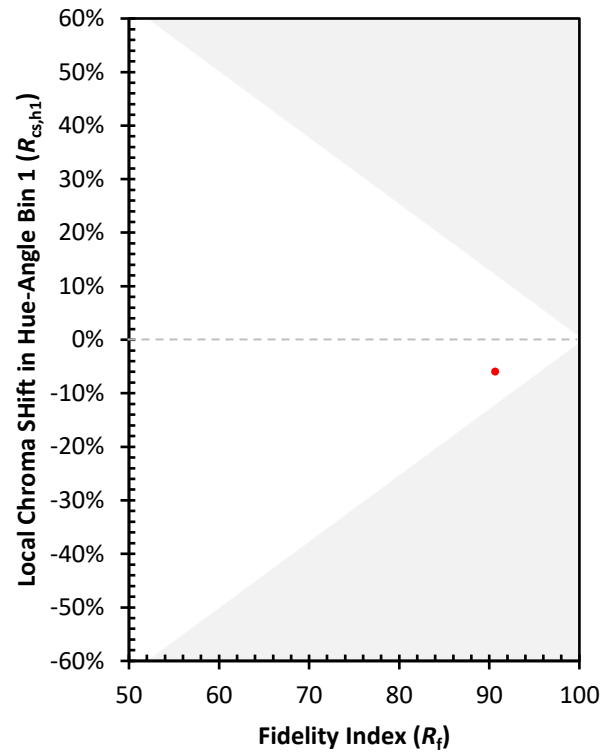
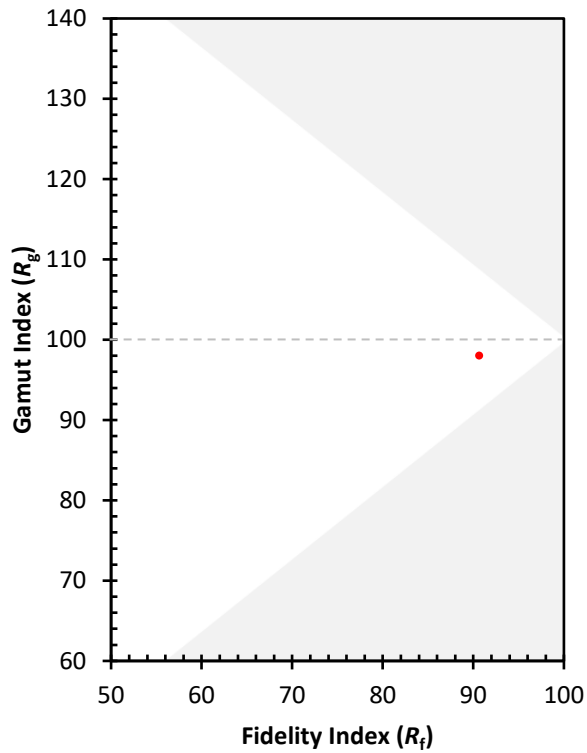
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 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)