

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: P1050054

Luminaire Tested: **GALN-SA5B-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050054
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 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: 16062.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 178.8
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

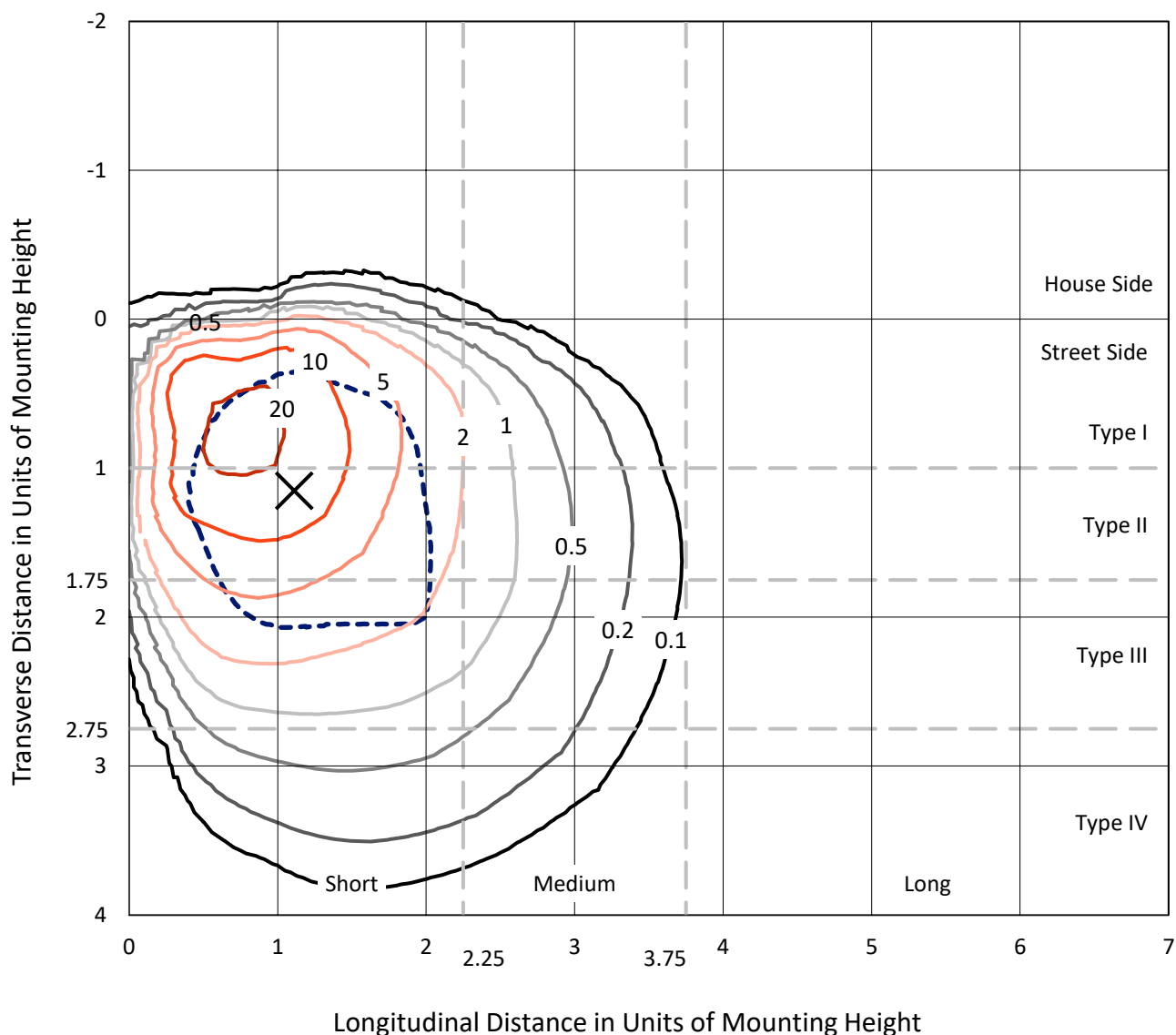
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

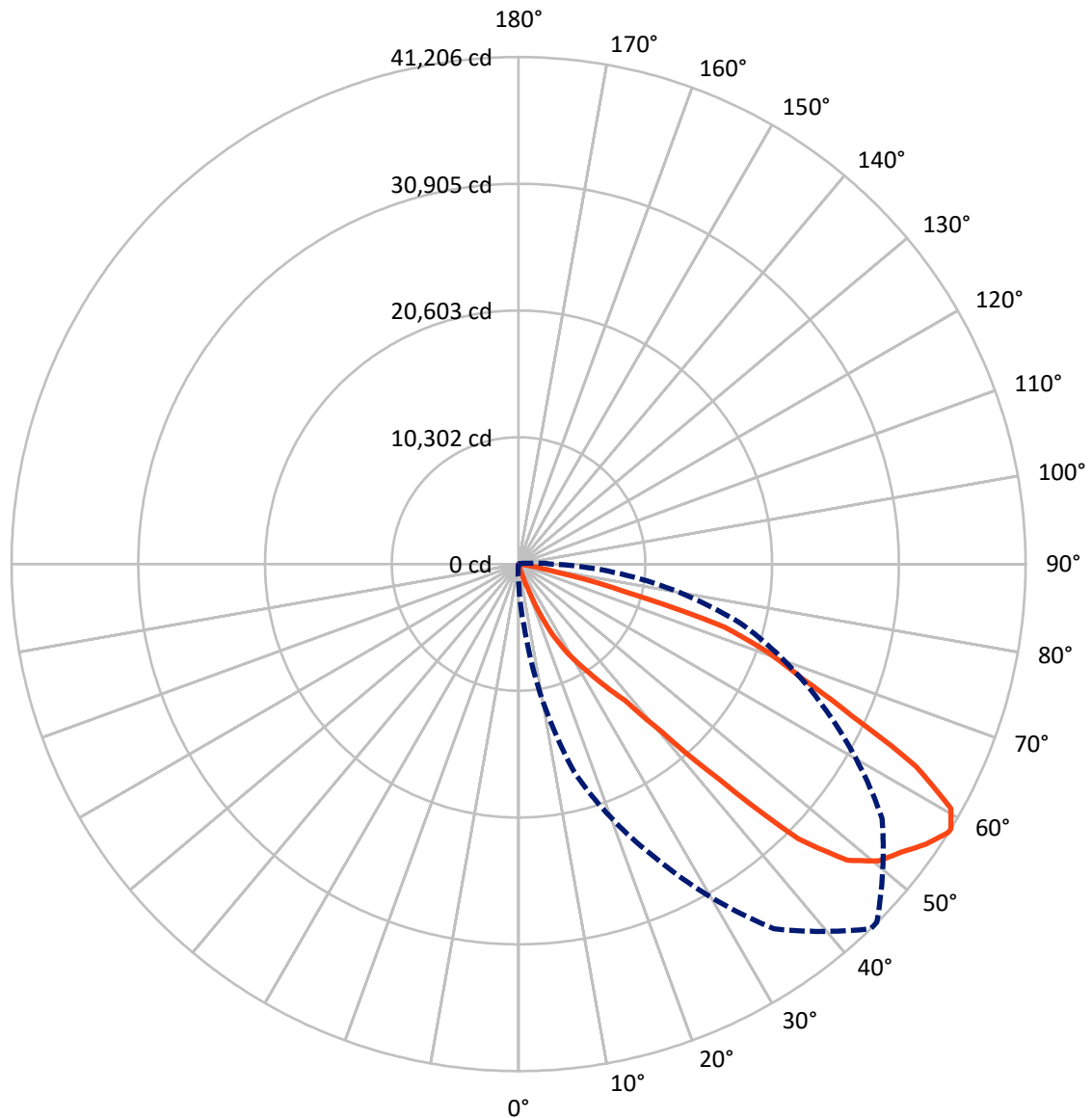


Based on 20 foot mounting height. Maximum calculated value = 28 fc

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	109.7	0.0	109.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	15952.6	0.0	15952.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	16062.3	0.0	16062.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	0.0
10°-20°	35.2	0.2
20°-30°	380.5	2.4
30°-40°	1125.3	7.0
40°-50°	3354.1	20.9
50°-60°	5322.1	33.1
60°-70°	4439.3	27.6
70°-80°	1369.1	8.5
80°-90°	30.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16062.3	100.0
0°-180°	16062.3	100.0



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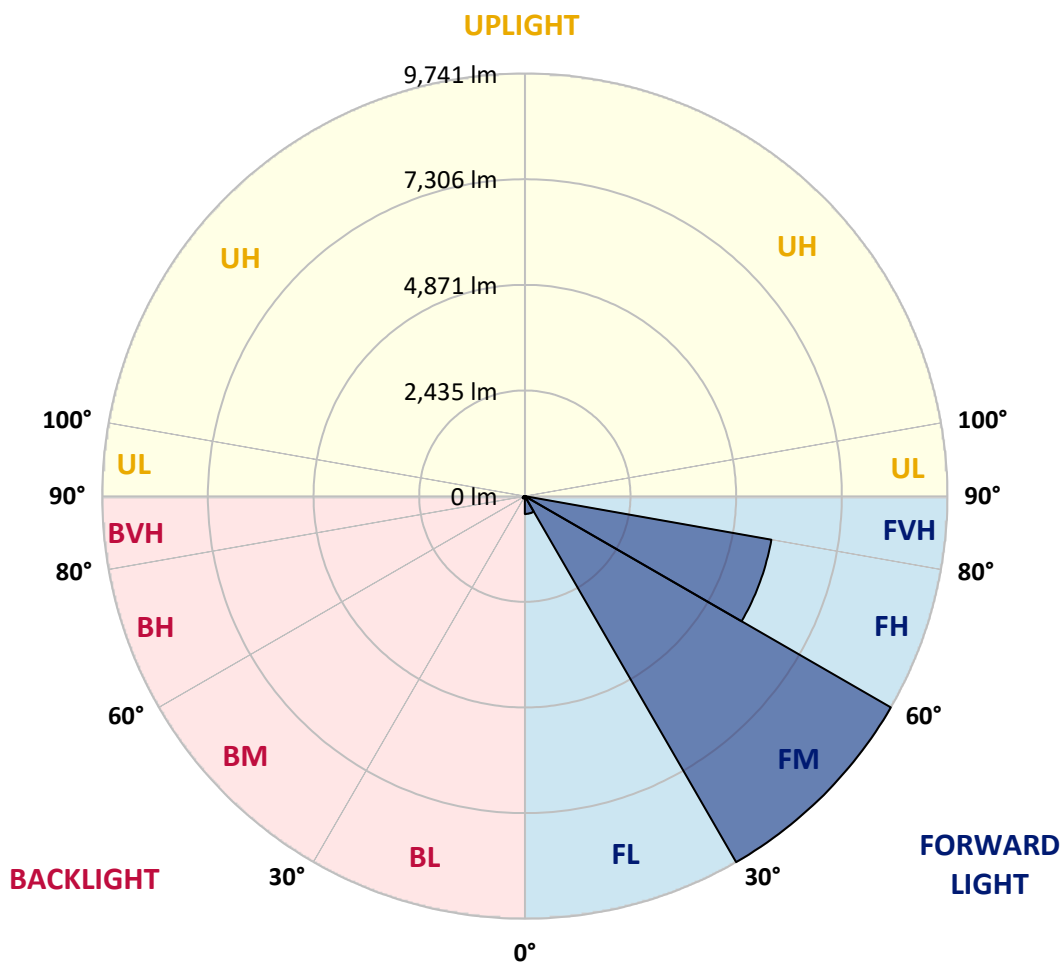
CATALOG NUMBER: GALN-SA5B-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.3	2.6			
FM	(30°-60°)	9741.5	60.6			
FH	(60°-80°)	5771.0	35.9			G3/7500
FVH	(80°-90°)	28.9	0.2			G1/100
BL	(0°-30°)	10.7	0.1	B0/110		
BM	(30°-60°)	60.0	0.4	B0/220		
BH	(60°-80°)	37.4	0.2	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
2.5°	91.0	91.0	87.4	82.5	77.7	72.8	71.6	69.2	67.9	66.7
5°	94.6	94.6	93.4	89.8	84.9	81.3	81.3	77.7	75.2	72.8
7.5°	97.1	98.3	100.7	99.5	97.1	93.4	93.4	91.0	87.4	81.3
10°	100.7	104.3	109.2	111.6	112.8	112.8	111.6	110.4	104.3	95.9
12.5°	104.3	111.6	123.8	135.9	143.2	152.9	151.7	149.2	133.5	115.3
15°	111.6	122.6	148.0	183.2	237.8	271.8	285.1	273.0	220.8	155.3
17.5°	120.1	138.3	214.8	383.4	628.5	745.0	815.4	758.4	502.3	294.8
20°	128.6	168.7	399.2	993.8	1630.8	2011.8	2117.3	1952.3	1253.4	561.8
22.5°	143.2	236.6	809.3	2054.2	3513.9	4085.4	4193.4	3665.6	2367.3	1109.0
25°	173.5	343.4	1395.4	3347.7	5244.2	6208.8	6163.9	5472.3	3840.3	1771.5
27.5°	217.2	499.9	2110.1	4756.4	6901.7	7752.2	7854.2	6998.7	5119.2	2605.1
30°	280.3	692.8	2876.9	5884.9	8230.3	9150.0	9167.0	8282.5	6263.4	3336.8
32.5°	341.0	874.8	3547.9	6975.7	9539.5	10547.8	10623.1	9534.7	7117.6	4098.8
35°	387.1	993.8	4227.4	7934.2	10859.7	12249.0	12244.1	10951.9	8129.6	4779.5
37.5°	390.7	1112.7	4842.6	8914.6	12531.7	14087.2	14241.3	12816.8	9352.7	5621.5
40°	382.2	1246.1	5621.5	10443.5	15544.5	17931.2	18067.1	16271.3	11806.1	7063.0
42.5°	391.9	1477.9	6885.9	13267.0	20547.2	23975.0	24237.1	22349.1	16316.2	10004.2
45°	442.9	1913.5	9534.7	17990.7	27678.2	31857.1	31769.7	29050.5	21564.0	14481.6
47.5°	611.5	2980.0	13461.1	22588.1	32235.6	35957.0	36032.3	32708.9	24626.6	17923.9
50°	940.4	4559.8	16760.3	25018.5	34195.2	37928.8	37858.4	34018.1	25790.2	19619.0
52.5°	1223.1	5702.8	18415.3	25871.5	34446.4	38903.1	38898.3	34362.7	25971.0	19764.6
55°	1293.5	5789.0	18428.7	25917.6	35009.4	40178.4	40338.5	35210.8	26205.2	19128.8
57.5°	1265.5	5125.3	17659.4	26184.6	36011.6	41164.8	41173.3	36032.3	26799.7	18739.3
58°	1241.3	5020.9	17504.1	26336.2	36183.9	41206.1	41185.5	36069.9	27283.9	18724.7
60°	1105.4	4359.6	16898.6	26723.3	35927.9	40359.2	40166.2	35248.4	27212.3	18575.5
62.5°	868.8	3401.1	16302.9	26275.6	33183.3	36259.2	36339.3	31206.7	24807.4	17705.5
65°	691.6	2534.7	15060.4	23048.0	27325.1	29776.1	30074.6	25376.4	20706.2	14992.4
67.5°	550.9	1832.2	12633.6	18349.8	21622.3	24851.1	25068.3	21305.6	16042.0	11487.0
70°	447.7	1238.9	8720.5	13419.9	17834.1	21464.5	21477.9	17699.4	11973.5	7526.5
72.5°	396.8	857.9	5062.2	9787.1	14461.0	17490.7	17137.7	14362.7	9202.2	4457.9
75°	343.4	569.1	2482.6	5983.1	8767.8	8827.3	8962.0	6662.6	4599.9	2119.8
77.5°	282.7	404.1	978.0	1634.4	2629.4	3365.9	3490.9	2645.1	1530.1	521.7
80°	194.1	191.7	263.3	501.1	752.3	942.8	879.7	680.7	400.4	200.2
82.5°	83.7	91.0	118.9	143.2	116.5	112.8	108.0	69.2	53.4	41.3
85°	26.7	24.3	25.5	25.5	20.6	15.8	15.8	7.3	0.0	0.0
87.5°	13.3	10.9	10.9	9.7	6.1	2.4	1.2	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°
70.4	0°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
65.5	2.5°	64.3	64.3	61.9	59.5	58.2	55.8	54.6	53.4	52.2	51.0
70.4	5°	67.9	66.7	63.1	59.5	55.8	52.2	49.7	47.3	44.9	43.7
77.7	7.5°	74.0	71.6	64.3	58.2	53.4	48.5	46.1	42.5	40.0	36.4
86.1	10°	81.3	76.4	66.7	59.5	52.2	46.1	42.5	38.8	35.2	30.3
98.3	12.5°	91.0	82.5	70.4	58.2	49.7	42.5	38.8	34.0	30.3	26.7
114.1	15°	99.5	88.6	71.6	58.2	47.3	38.8	34.0	29.1	25.5	20.6
143.2	17.5°	111.6	93.4	70.4	54.6	43.7	34.0	29.1	25.5	19.4	12.1
212.3	20°	132.3	97.1	67.9	51.0	37.6	27.9	21.8	17.0	8.5	2.4
319.1	22.5°	165.0	106.8	65.5	46.1	32.8	21.8	14.6	6.1	0.0	0.0
485.3	25°	228.1	123.8	65.5	43.7	29.1	15.8	4.9	0.0	0.0	0.0
689.2	27.5°	303.3	146.8	65.5	37.6	23.1	8.5	0.0	0.0	0.0	0.0
939.1	30°	379.8	172.3	65.5	32.8	18.2	1.2	0.0	0.0	0.0	0.0
1156.3	32.5°	452.6	194.1	66.7	27.9	12.1	0.0	0.0	0.0	0.0	0.0
1457.3	35°	526.6	197.8	65.5	24.3	7.3	0.0	0.0	0.0	0.0	0.0
1826.1	37.5°	621.2	190.5	61.9	21.8	3.6	0.0	0.0	0.0	0.0	0.0
2402.5	40°	764.4	194.1	58.2	20.6	1.2	0.0	0.0	0.0	0.0	0.0
3430.2	42.5°	1028.9	209.9	53.4	20.6	0.0	0.0	0.0	0.0	0.0	0.0
5463.8	45°	1778.8	281.5	48.5	21.8	0.0	0.0	0.0	0.0	0.0	0.0
8202.4	47.5°	2942.4	506.0	47.3	21.8	0.0	0.0	0.0	0.0	0.0	0.0
9880.5	50°	3755.4	637.0	49.7	23.1	0.0	0.0	0.0	0.0	0.0	0.0
10090.4	52.5°	3749.3	709.8	52.2	24.3	4.9	0.0	0.0	0.0	0.0	0.0
9300.5	55°	3333.1	723.2	55.8	26.7	15.8	0.0	0.0	0.0	0.0	0.0
7992.5	57.5°	2785.9	660.1	64.3	32.8	29.1	0.0	0.0	0.0	0.0	0.0
7787.4	58°	2688.8	631.0	66.7	34.0	31.5	0.0	0.0	0.0	0.0	0.0
6754.8	60°	2203.5	514.5	84.9	42.5	42.5	0.0	0.0	0.0	0.0	0.0
5537.8	62.5°	1521.6	448.9	97.1	54.6	43.7	0.0	0.0	0.0	0.0	0.0
4083.0	65°	1076.3	405.3	105.6	58.2	35.2	0.0	0.0	0.0	0.0	0.0
2901.2	67.5°	804.5	373.7	116.5	59.5	18.2	0.0	0.0	0.0	0.0	0.0
1820.1	70°	616.4	350.7	143.2	63.1	4.9	0.0	0.0	0.0	0.0	0.0
1084.8	72.5°	502.3	324.0	173.5	65.5	0.0	0.0	0.0	0.0	0.0	0.0
650.4	75°	416.2	292.4	167.4	71.6	0.0	0.0	0.0	0.0	0.0	0.0
347.0	77.5°	276.6	226.9	152.9	71.6	0.0	0.0	0.0	0.0	0.0	0.0
123.8	80°	97.1	89.8	118.9	63.1	0.0	0.0	0.0	0.0	0.0	0.0
25.5	82.5°	14.6	12.1	17.0	21.8	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°
70.4	0°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
49.7	2.5°	49.7	49.7	48.5	49.7	49.7	52.2	58.2	66.7	76.4	80.1
42.5	5°	41.3	40.0	38.8	38.8	38.8	42.5	47.3	57.0	67.9	72.8
35.2	7.5°	34.0	32.8	31.5	30.3	30.3	32.8	38.8	49.7	60.7	65.5
29.1	10°	27.9	25.5	24.3	23.1	23.1	25.5	31.5	42.5	54.6	59.5
24.3	12.5°	23.1	19.4	17.0	15.8	14.6	18.2	24.3	34.0	47.3	53.4
18.2	15°	15.8	12.1	8.5	7.3	6.1	9.7	15.8	26.7	40.0	47.3
9.7	17.5°	8.5	3.6	1.2	0.0	0.0	2.4	7.3	19.4	32.8	38.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	24.3	30.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	14.6	20.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	10.9
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
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	3.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.7
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°
70.4	0°	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
83.7	2.5°	86.1	84.9	82.5	80.1	80.1	80.1	83.7	87.4	91.0	91.0
75.2	5°	80.1	80.1	78.9	76.4	76.4	77.7	82.5	88.6	93.4	94.6
69.2	7.5°	74.0	76.4	74.0	72.8	74.0	75.2	80.1	87.4	94.6	97.1
64.3	10°	70.4	71.6	71.6	70.4	70.4	72.8	77.7	87.4	97.1	100.7
58.2	12.5°	65.5	67.9	66.7	66.7	66.7	69.2	75.2	86.1	99.5	104.3
52.2	15°	60.7	64.3	64.3	63.1	63.1	64.3	72.8	84.9	103.1	111.6
44.9	17.5°	55.8	59.5	60.7	58.2	58.2	60.7	69.2	84.9	105.6	120.1
36.4	20°	46.1	52.2	55.8	52.2	52.2	54.6	63.1	80.1	106.8	128.6
26.7	22.5°	36.4	42.5	47.3	46.1	46.1	47.3	58.2	76.4	108.0	143.2
15.8	25°	26.7	32.8	36.4	38.8	38.8	42.5	53.4	74.0	112.8	173.5
7.3	27.5°	15.8	23.1	27.9	30.3	31.5	36.4	49.7	71.6	121.3	217.2
0.0	30°	7.3	13.3	19.4	24.3	24.3	32.8	46.1	69.2	132.3	280.3
0.0	32.5°	0.0	6.1	9.7	17.0	18.2	26.7	42.5	66.7	148.0	341.0
0.0	35°	0.0	0.0	4.9	13.3	13.3	21.8	38.8	64.3	172.3	387.1
0.0	37.5°	0.0	0.0	0.0	9.7	10.9	19.4	37.6	63.1	177.2	390.7
0.0	40°	0.0	0.0	0.0	7.3	8.5	18.2	37.6	64.3	160.2	382.2
0.0	42.5°	0.0	0.0	0.0	4.9	6.1	18.2	37.6	66.7	144.4	391.9
0.0	45°	0.0	0.0	0.0	3.6	4.9	19.4	36.4	65.5	135.9	442.9
0.0	47.5°	0.0	0.0	0.0	4.9	7.3	19.4	35.2	64.3	137.1	611.5
0.0	50°	0.0	0.0	0.0	6.1	8.5	19.4	36.4	61.9	150.5	940.4
0.0	52.5°	0.0	0.0	0.0	4.9	7.3	21.8	40.0	60.7	163.8	1223.1
0.0	55°	0.0	0.0	0.0	1.2	3.6	27.9	43.7	60.7	184.4	1293.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	31.5	49.7	64.3	218.4	1265.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	31.5	51.0	64.3	220.8	1241.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	31.5	55.8	71.6	237.8	1105.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	26.7	66.7	89.8	247.5	868.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	21.8	78.9	98.3	254.8	691.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	20.6	81.3	99.5	258.4	550.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	21.8	80.1	106.8	270.6	447.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	24.3	72.8	117.7	270.6	396.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	25.5	67.9	132.3	246.3	343.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	24.3	66.7	154.1	219.6	282.7
0.0	80°	2.4	3.6	3.6	2.4	2.4	20.6	65.5	156.5	186.9	194.1
1.2	82.5°	7.3	9.7	8.5	6.1	6.1	18.2	58.2	131.0	97.1	83.7
7.3	85°	13.3	15.8	15.8	13.3	13.3	17.0	36.4	47.3	32.8	26.7
13.3	87.5°	18.2	20.6	20.6	18.2	18.2	17.0	15.8	14.6	13.3	13.3
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

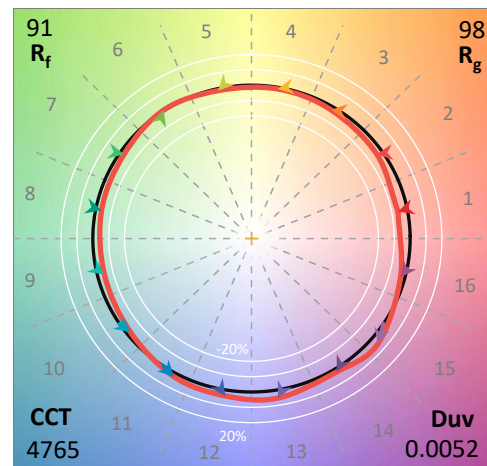
Test Information

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

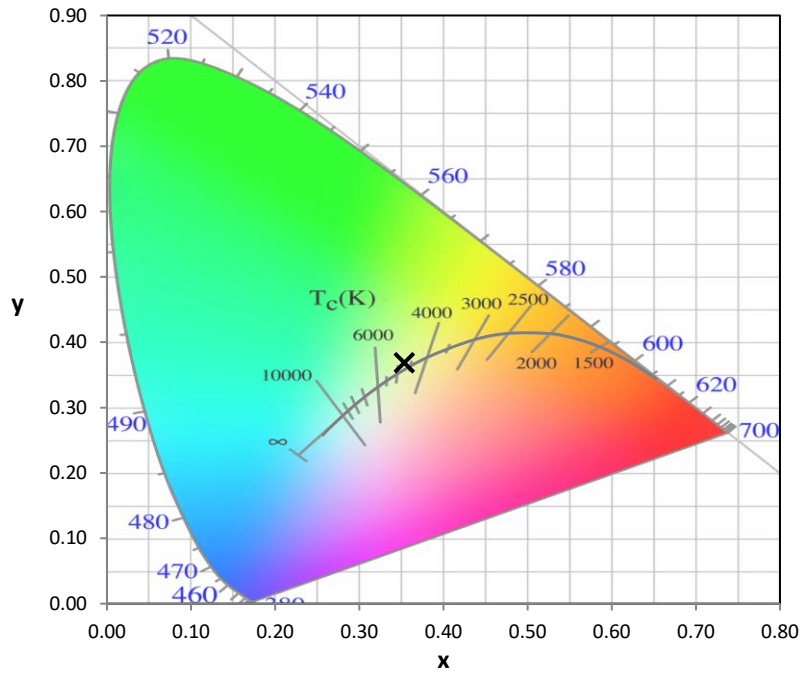
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

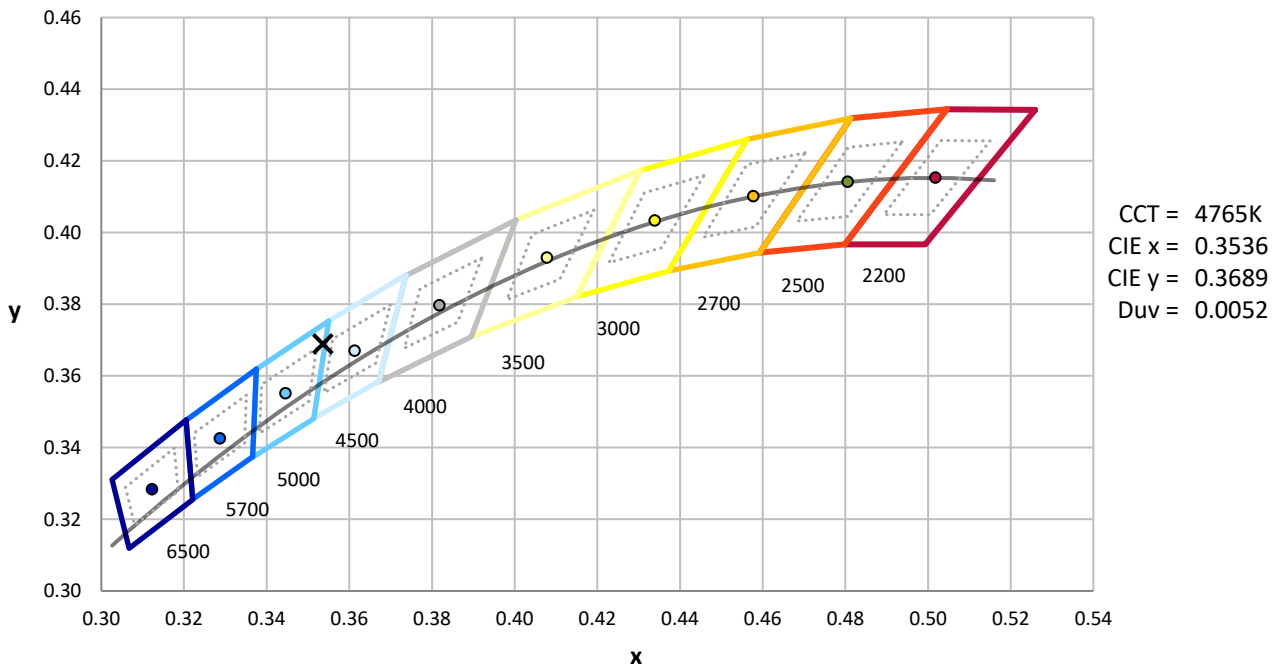
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



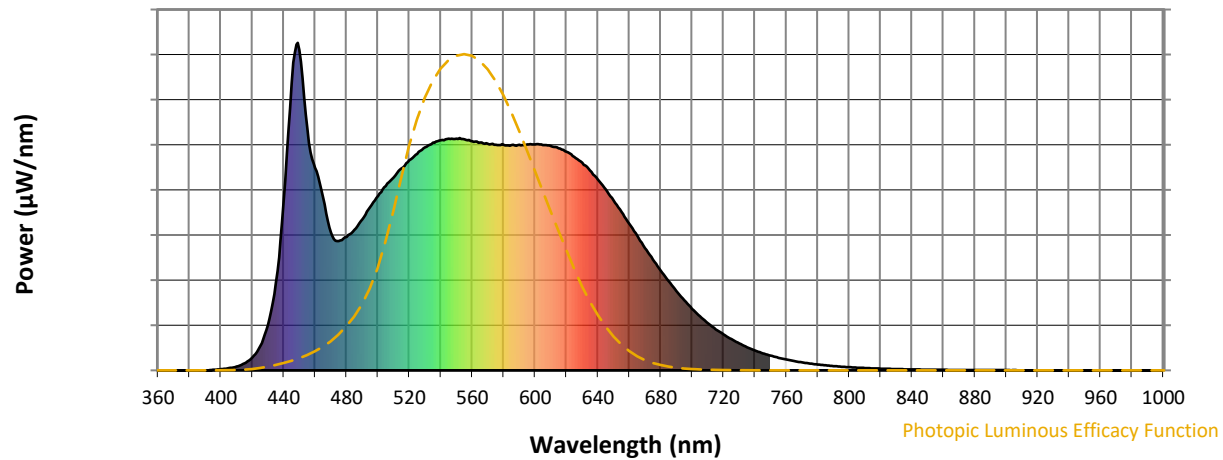
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

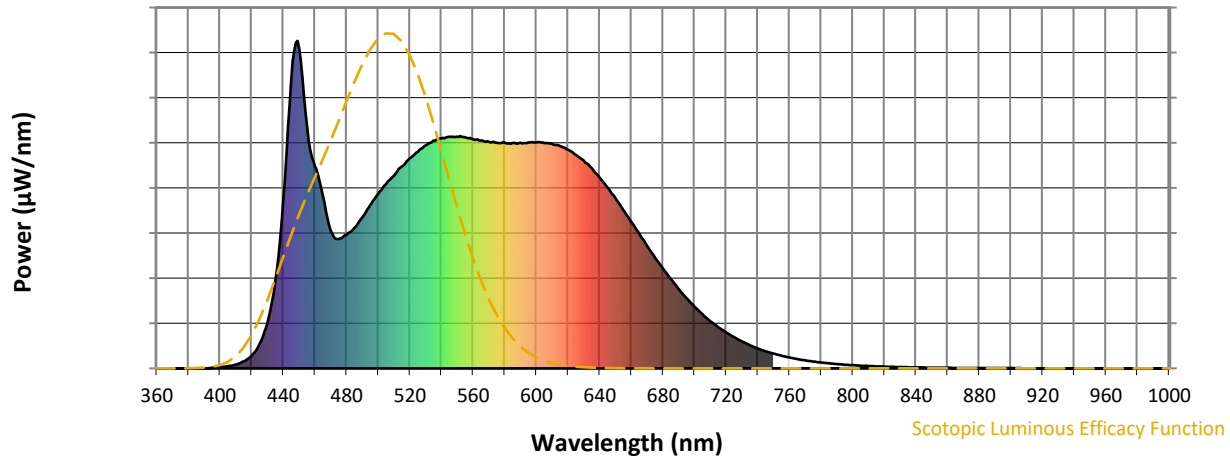


Photopic Lumens: NR

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



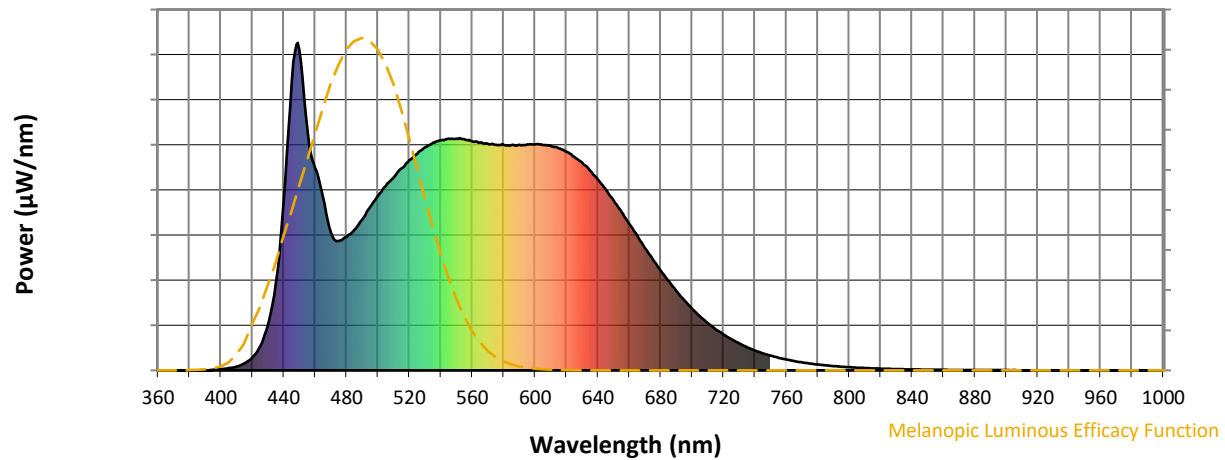
Scotopic Lumens: NR

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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

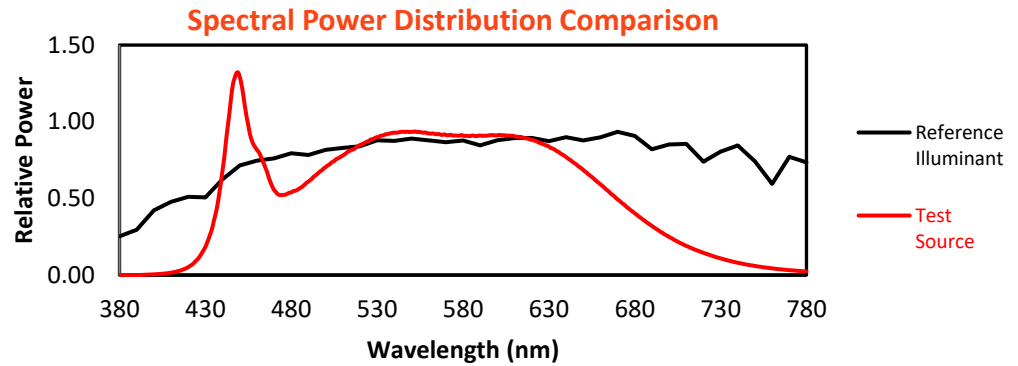
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668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

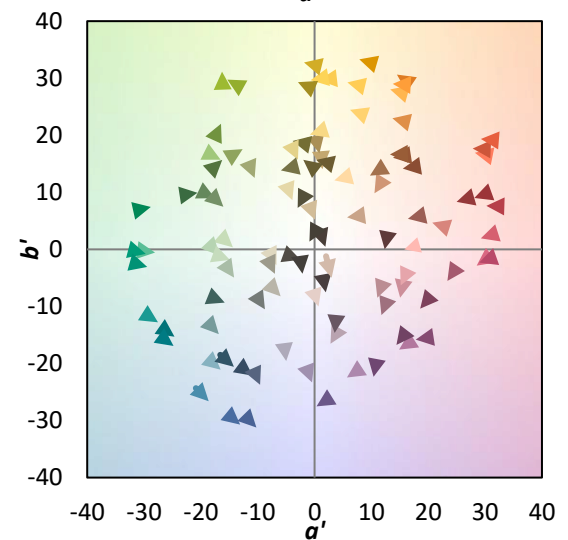
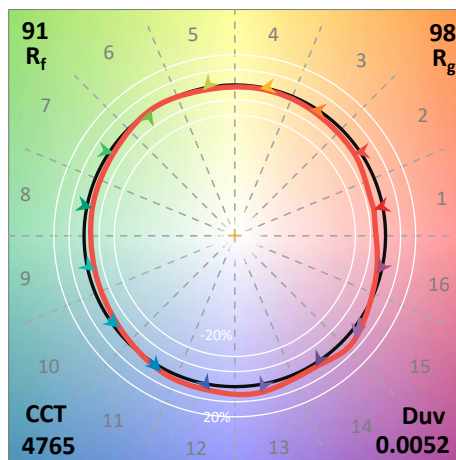
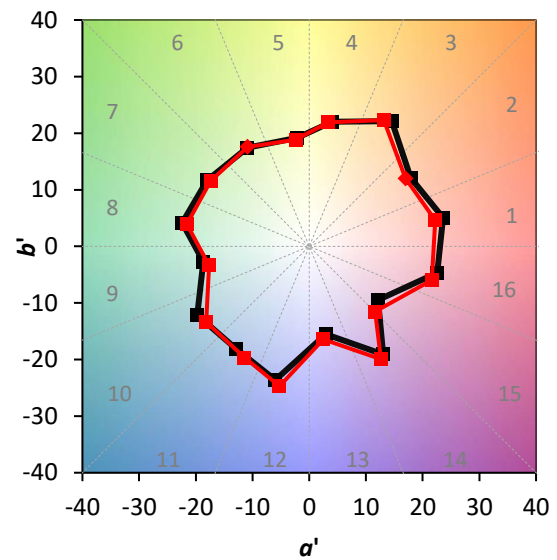
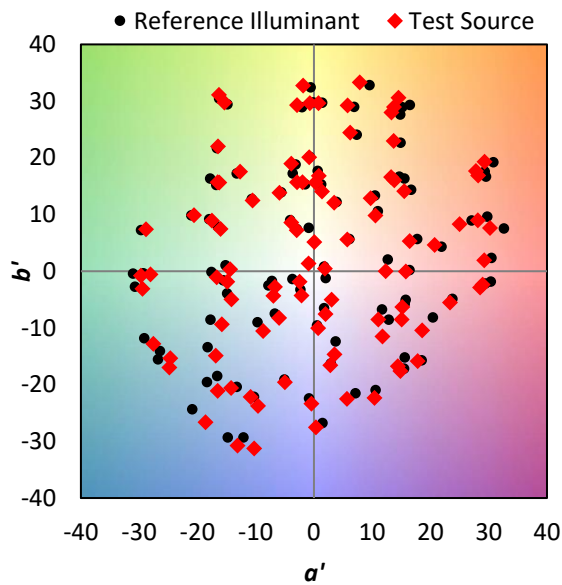
TM-30-18

Summary

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

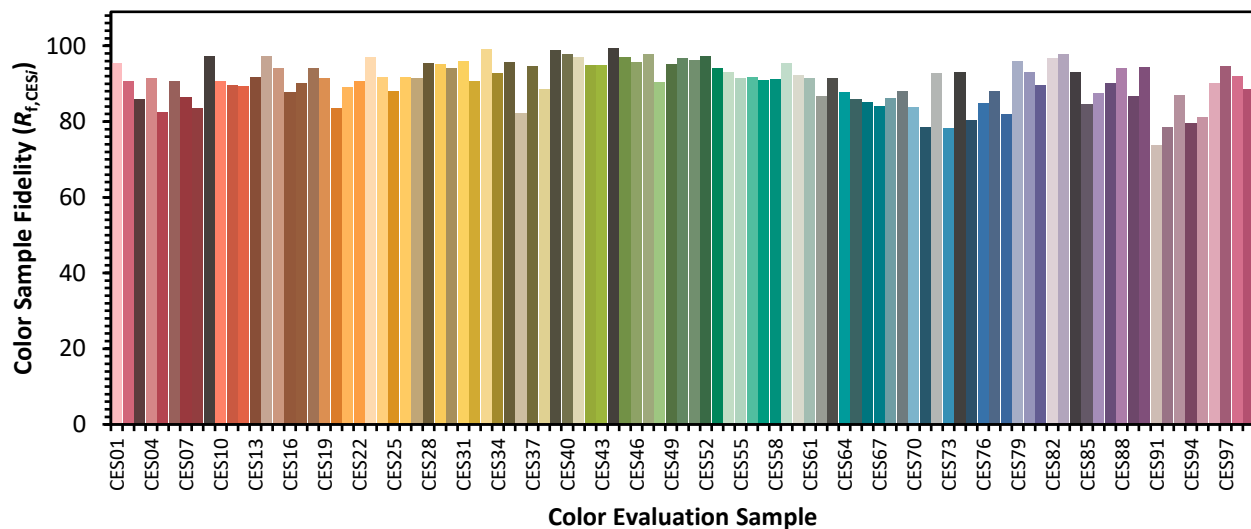


Color Vector Graphics

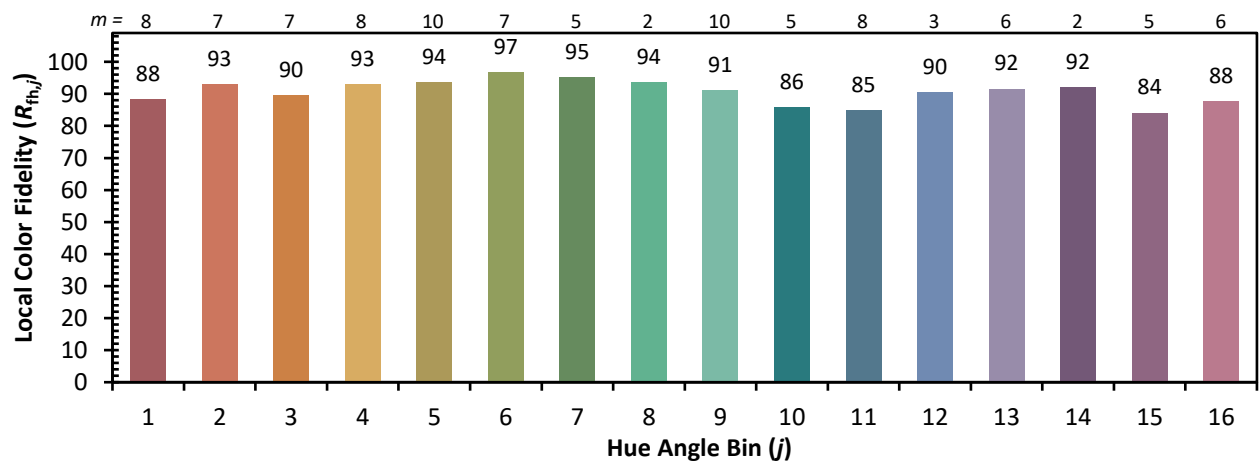
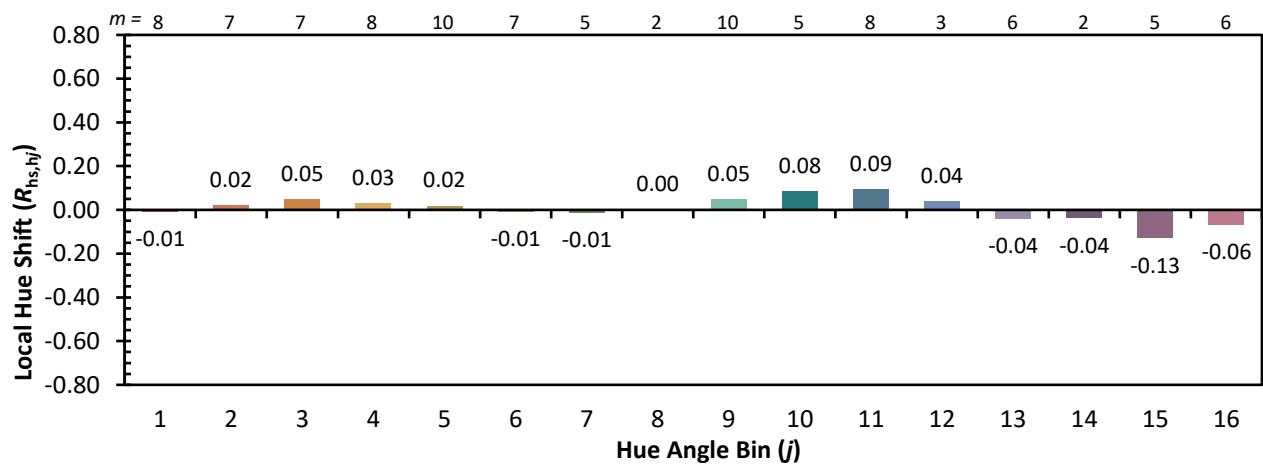
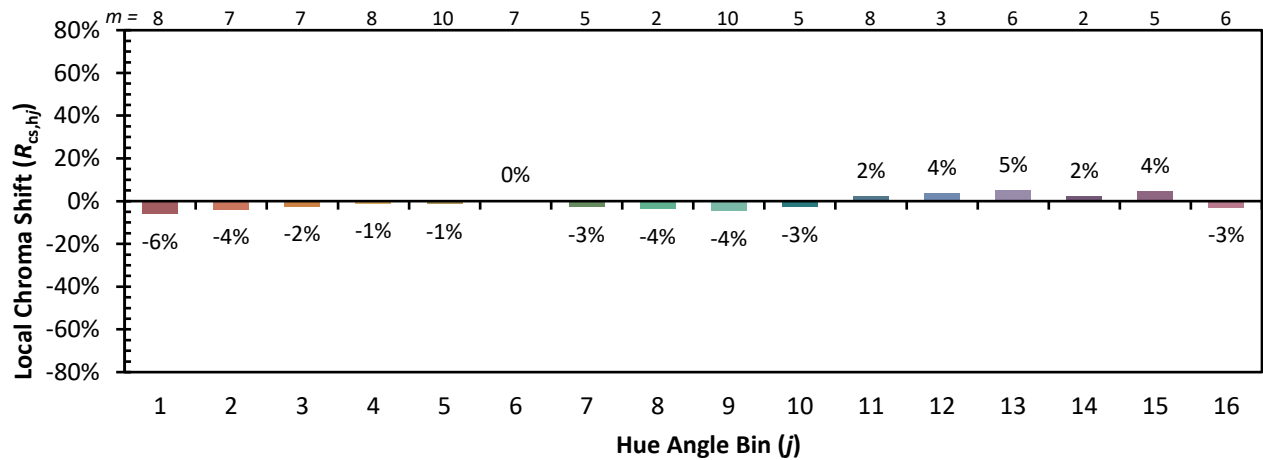


Individual Sample Fidelity Index ($R_{f,i}$)

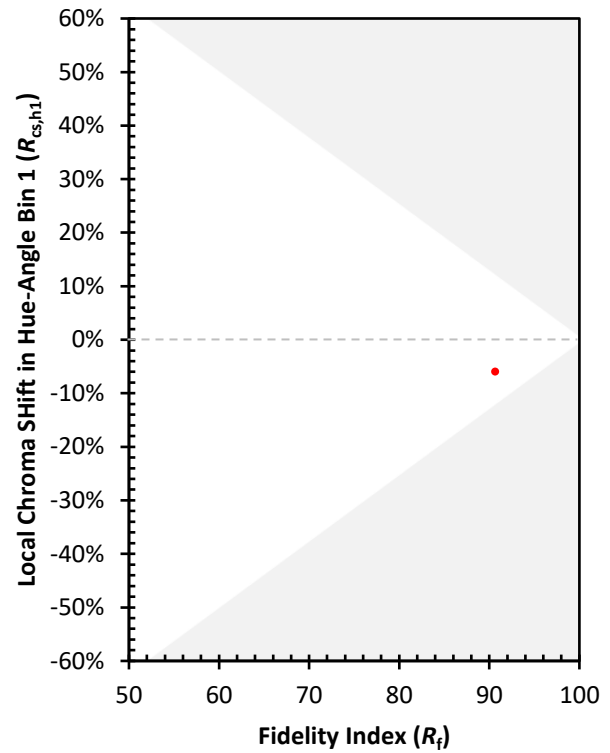
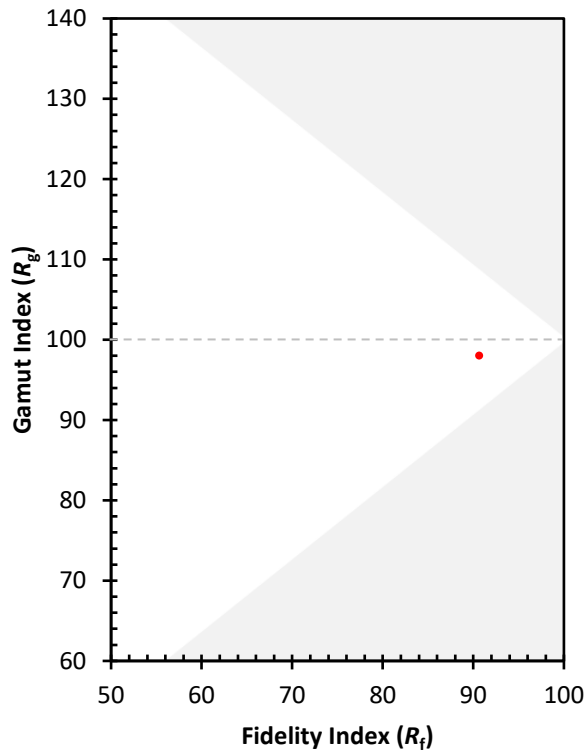
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82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