

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: P1050061

Luminaire Tested: **GALN-SA7A-950-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1050061
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 7xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17960.7 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

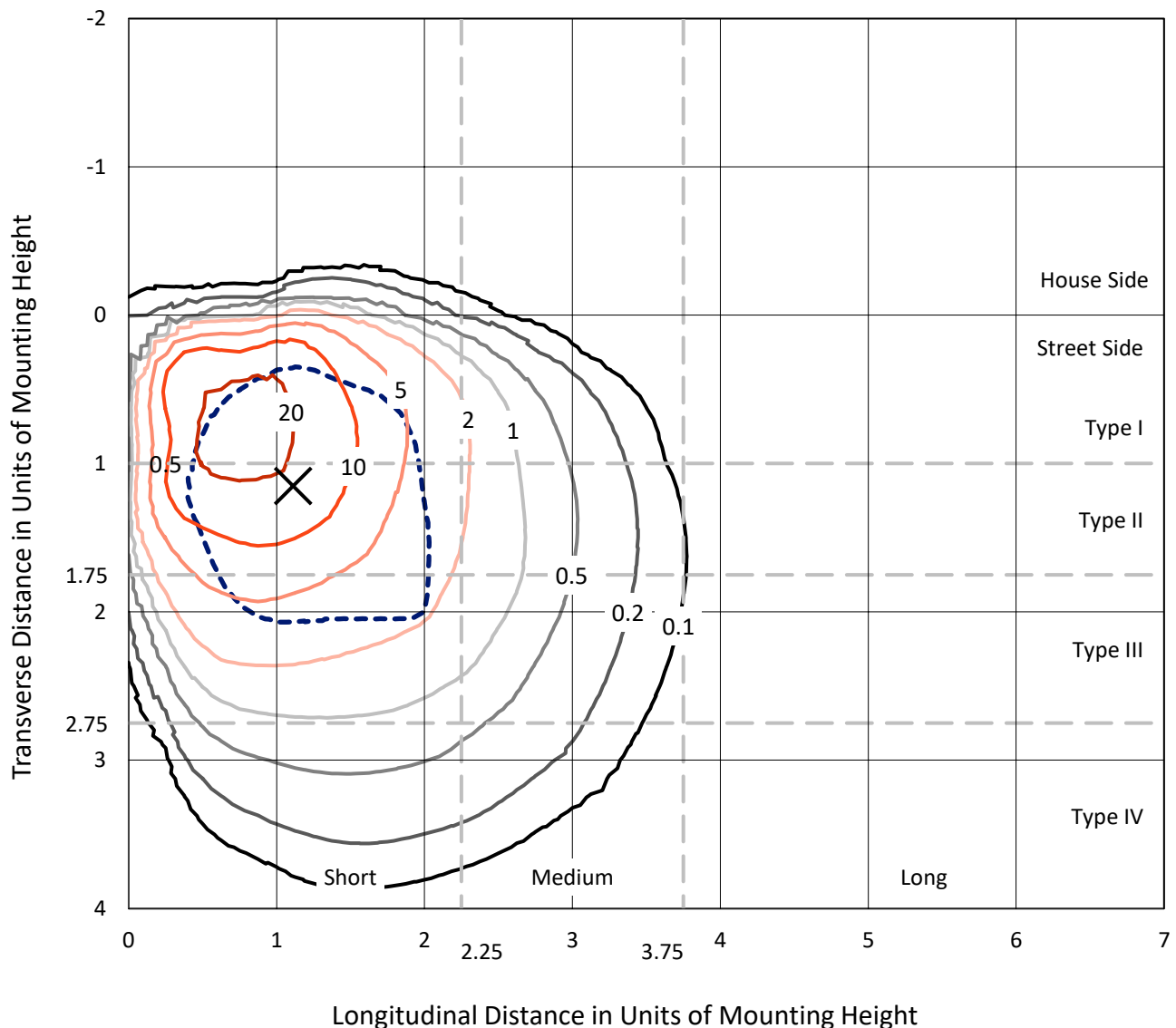
Input Watts (W): 193.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

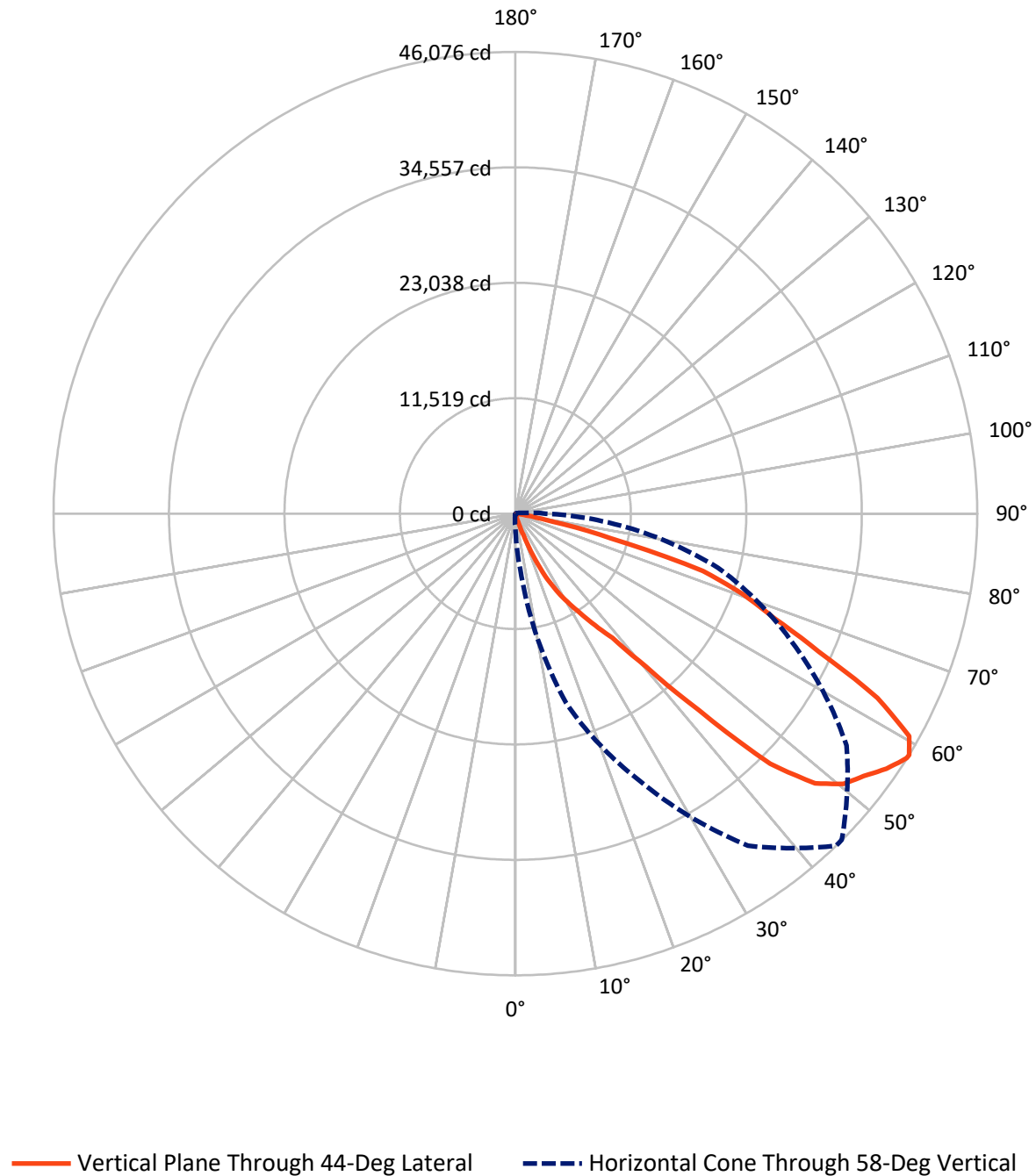
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.6	0.0	122.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	17838.1	0.0	17838.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	17960.7	0.0	17960.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.0
10°-20°	39.4	0.2
20°-30°	425.5	2.4
30°-40°	1258.3	7.0
40°-50°	3750.5	20.9
50°-60°	5951.1	33.1
60°-70°	4963.9	27.6
70°-80°	1531.0	8.5
80°-90°	34.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17960.7	100.0
0°-180°	17960.7	100.0



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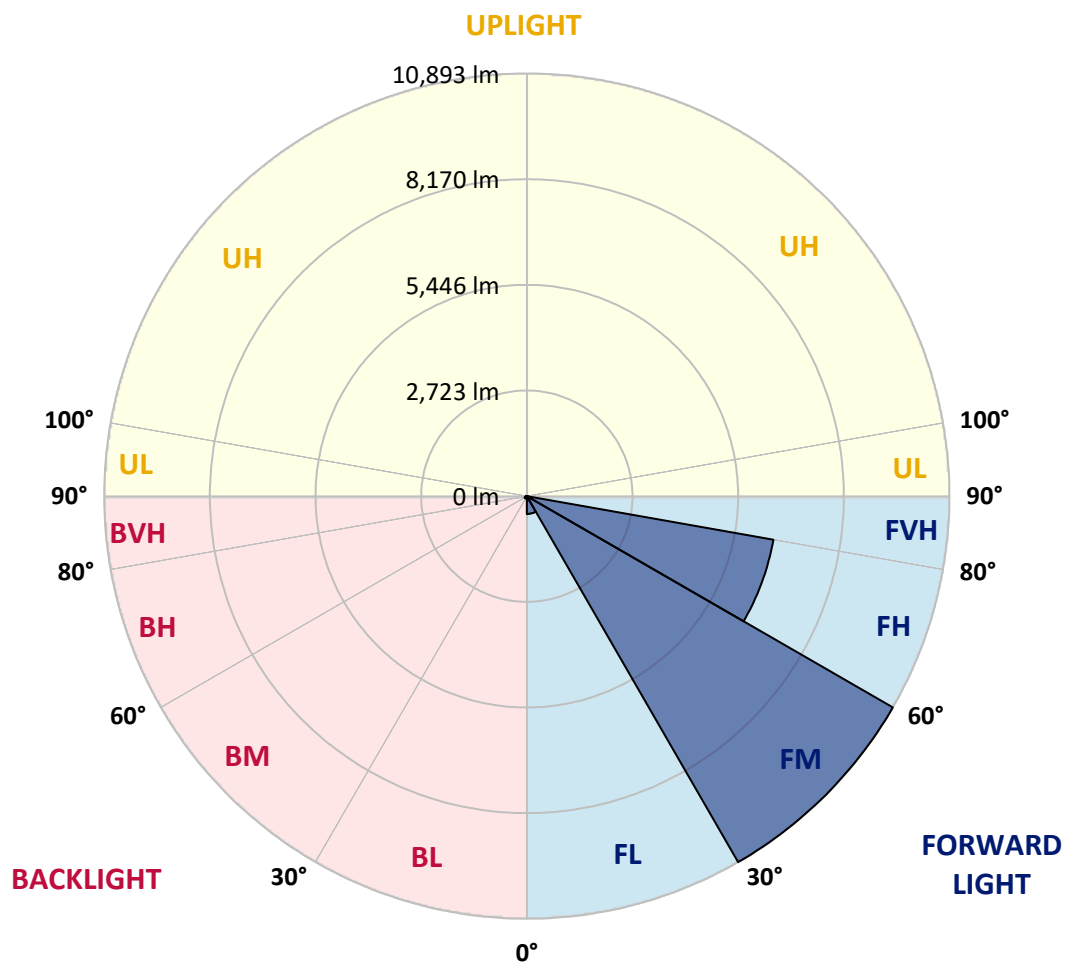
CATALOG NUMBER: GALN-SA7A-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.9	2.6			
FM	(30°-60°)	10892.8	60.6			
FH	(60°-80°)	6453.0	35.9			G3/7500
FVH	(80°-90°)	32.4	0.2			G1/100
BL	(0°-30°)	12.0	0.1	B0/110		
BM	(30°-60°)	67.1	0.4	B0/220		
BH	(60°-80°)	41.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
2.5°	101.8	101.8	97.7	92.3	86.8	81.4	80.0	77.3	76.0	74.6
5°	105.8	105.8	104.5	100.4	95.0	90.9	90.9	86.8	84.1	81.4
7.5°	108.5	109.9	112.6	111.3	108.5	104.5	104.5	101.8	97.7	90.9
10°	112.6	116.7	122.1	124.8	126.2	126.2	124.8	123.5	116.7	107.2
12.5°	116.7	124.8	138.4	152.0	160.1	171.0	169.6	166.9	149.2	128.9
15°	124.8	137.0	165.5	204.9	265.9	303.9	318.8	305.3	246.9	173.7
17.5°	134.3	154.7	240.1	428.7	702.8	833.1	911.8	848.0	561.7	329.7
20°	143.8	188.6	446.4	1111.2	1823.5	2249.5	2367.6	2183.1	1401.6	628.2
22.5°	160.1	264.6	905.0	2297.0	3929.2	4568.3	4689.0	4098.8	2647.1	1240.1
25°	194.0	384.0	1560.3	3743.4	5864.0	6942.6	6892.4	6119.1	4294.2	1980.9
27.5°	242.9	559.0	2359.4	5318.6	7717.4	8668.5	8782.4	7825.9	5724.2	2913.0
30°	313.4	774.7	3216.9	6580.4	9203.0	10231.5	10250.5	9261.4	7003.7	3731.1
32.5°	381.3	978.2	3967.2	7800.1	10667.0	11794.5	11878.6	10661.6	7958.9	4583.2
35°	432.8	1111.2	4727.0	8872.0	12143.2	13696.7	13691.2	12246.3	9090.4	5344.3
37.5°	436.9	1244.2	5414.9	9968.2	14012.8	15752.2	15924.5	14331.6	10458.0	6286.0
40°	427.4	1393.4	6286.0	11677.8	17381.7	20050.5	20202.4	18194.4	13201.5	7897.8
42.5°	438.2	1652.6	7699.7	14835.0	22975.7	26808.6	27101.6	24990.5	18244.6	11186.6
45°	495.2	2139.6	10661.6	20117.0	30949.5	35622.2	35524.5	32484.0	24112.7	16193.1
47.5°	683.8	3332.2	15052.1	25257.8	36045.5	40206.8	40290.9	36574.7	27537.2	20042.3
50°	1051.5	5098.8	18741.2	27975.4	38236.7	42411.5	42332.8	38038.6	28838.3	21937.7
52.5°	1367.6	6376.9	20591.8	28929.2	38517.6	43501.0	43495.6	38424.0	29040.5	22100.6
55°	1446.3	6473.2	20606.7	28980.8	39147.1	44927.0	45106.1	39372.3	29302.3	21389.6
57.5°	1415.1	5731.0	19746.6	29279.3	40267.8	46030.1	46039.6	40290.9	29967.2	20954.1
58°	1388.0	5614.3	19572.9	29448.9	40460.5	46076.2	46053.1	40332.9	30508.5	20937.8
60°	1236.0	4874.9	18895.9	29881.7	40174.2	45129.2	44913.4	39414.4	30428.5	20770.9
62.5°	971.5	3803.0	18229.7	29381.0	37105.2	40544.6	40634.2	34895.0	27739.3	19798.1
65°	773.4	2834.3	16840.3	25772.0	30554.6	33295.3	33629.1	28375.7	23153.4	16764.4
67.5°	616.0	2048.7	14126.8	20518.6	24177.8	27788.2	28031.0	23823.7	17938.0	12844.6
70°	500.7	1385.3	9751.2	15006.0	19941.9	24001.4	24016.3	19791.3	13388.7	8416.1
72.5°	443.7	959.2	5660.5	10943.8	16170.1	19558.0	19163.1	16060.2	10289.8	4984.8
75°	384.0	636.3	2776.0	6690.3	9804.1	9870.6	10021.2	7450.1	5143.5	2370.3
77.5°	316.1	451.8	1093.6	1827.6	2940.1	3763.7	3903.5	2957.8	1710.9	583.4
80°	217.1	214.4	294.4	560.3	841.2	1054.2	983.7	761.2	447.7	223.9
82.5°	93.6	101.8	133.0	160.1	130.3	126.2	120.8	77.3	59.7	46.1
85°	29.8	27.1	28.5	28.5	23.1	17.6	17.6	8.1	0.0	0.0
87.5°	14.9	12.2	12.2	10.9	6.8	2.7	1.4	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°
78.7	0°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
73.3	2.5°	71.9	71.9	69.2	66.5	65.1	62.4	61.1	59.7	58.3	57.0
78.7	5°	76.0	74.6	70.6	66.5	62.4	58.3	55.6	52.9	50.2	48.8
86.8	7.5°	82.8	80.0	71.9	65.1	59.7	54.3	51.6	47.5	44.8	40.7
96.3	10°	90.9	85.5	74.6	66.5	58.3	51.6	47.5	43.4	39.3	33.9
109.9	12.5°	101.8	92.3	78.7	65.1	55.6	47.5	43.4	38.0	33.9	29.8
127.5	15°	111.3	99.0	80.0	65.1	52.9	43.4	38.0	32.6	28.5	23.1
160.1	17.5°	124.8	104.5	78.7	61.1	48.8	38.0	32.6	28.5	21.7	13.6
237.4	20°	147.9	108.5	76.0	57.0	42.1	31.2	24.4	19.0	9.5	2.7
356.8	22.5°	184.5	119.4	73.3	51.6	36.6	24.4	16.3	6.8	0.0	0.0
542.7	25°	255.1	138.4	73.3	48.8	32.6	17.6	5.4	0.0	0.0	0.0
770.7	27.5°	339.2	164.2	73.3	42.1	25.8	9.5	0.0	0.0	0.0	0.0
1050.1	30°	424.7	192.7	73.3	36.6	20.4	1.4	0.0	0.0	0.0	0.0
1293.0	32.5°	506.1	217.1	74.6	31.2	13.6	0.0	0.0	0.0	0.0	0.0
1629.5	35°	588.8	221.2	73.3	27.1	8.1	0.0	0.0	0.0	0.0	0.0
2042.0	37.5°	694.7	213.0	69.2	24.4	4.1	0.0	0.0	0.0	0.0	0.0
2686.4	40°	854.8	217.1	65.1	23.1	1.4	0.0	0.0	0.0	0.0	0.0
3835.6	42.5°	1150.5	234.7	59.7	23.1	0.0	0.0	0.0	0.0	0.0	0.0
6109.6	45°	1989.0	314.8	54.3	24.4	0.0	0.0	0.0	0.0	0.0	0.0
9171.8	47.5°	3290.2	565.8	52.9	24.4	0.0	0.0	0.0	0.0	0.0	0.0
11048.2	50°	4199.2	712.3	55.6	25.8	0.0	0.0	0.0	0.0	0.0	0.0
11283.0	52.5°	4192.4	793.7	58.3	27.1	5.4	0.0	0.0	0.0	0.0	0.0
10399.7	55°	3727.1	808.6	62.4	29.8	17.6	0.0	0.0	0.0	0.0	0.0
8937.1	57.5°	3115.2	738.1	71.9	36.6	32.6	0.0	0.0	0.0	0.0	0.0
8707.8	58°	3006.6	705.5	74.6	38.0	35.3	0.0	0.0	0.0	0.0	0.0
7553.2	60°	2463.9	575.3	95.0	47.5	47.5	0.0	0.0	0.0	0.0	0.0
6192.3	62.5°	1701.4	502.0	108.5	61.1	48.8	0.0	0.0	0.0	0.0	0.0
4565.6	65°	1203.5	453.2	118.0	65.1	39.3	0.0	0.0	0.0	0.0	0.0
3244.1	67.5°	899.5	417.9	130.3	66.5	20.4	0.0	0.0	0.0	0.0	0.0
2035.2	70°	689.2	392.1	160.1	70.6	5.4	0.0	0.0	0.0	0.0	0.0
1213.0	72.5°	561.7	362.3	194.0	73.3	0.0	0.0	0.0	0.0	0.0	0.0
727.2	75°	465.4	327.0	187.2	80.0	0.0	0.0	0.0	0.0	0.0	0.0
388.0	77.5°	309.3	253.7	171.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0
138.4	80°	108.5	100.4	133.0	70.6	0.0	0.0	0.0	0.0	0.0	0.0
28.5	82.5°	16.3	13.6	19.0	24.4	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

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
78.7	0°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
55.6	2.5°	55.6	55.6	54.3	55.6	55.6	58.3	65.1	74.6	85.5	89.5
47.5	5°	46.1	44.8	43.4	43.4	43.4	47.5	52.9	63.8	76.0	81.4
39.3	7.5°	38.0	36.6	35.3	33.9	33.9	36.6	43.4	55.6	67.8	73.3
32.6	10°	31.2	28.5	27.1	25.8	25.8	28.5	35.3	47.5	61.1	66.5
27.1	12.5°	25.8	21.7	19.0	17.6	16.3	20.4	27.1	38.0	52.9	59.7
20.4	15°	17.6	13.6	9.5	8.1	6.8	10.9	17.6	29.8	44.8	52.9
10.9	17.5°	9.5	4.1	1.4	0.0	0.0	2.7	8.1	21.7	36.6	43.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	27.1	33.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	16.3	23.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	12.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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	4.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.9
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°
78.7	0°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
93.6	2.5°	96.3	95.0	92.3	89.5	89.5	89.5	93.6	97.7	101.8	101.8
84.1	5°	89.5	89.5	88.2	85.5	85.5	86.8	92.3	99.0	104.5	105.8
77.3	7.5°	82.8	85.5	82.8	81.4	82.8	84.1	89.5	97.7	105.8	108.5
71.9	10°	78.7	80.0	80.0	78.7	78.7	81.4	86.8	97.7	108.5	112.6
65.1	12.5°	73.3	76.0	74.6	74.6	74.6	77.3	84.1	96.3	111.3	116.7
58.3	15°	67.8	71.9	71.9	70.6	70.6	71.9	81.4	95.0	115.3	124.8
50.2	17.5°	62.4	66.5	67.8	65.1	65.1	67.8	77.3	95.0	118.0	134.3
40.7	20°	51.6	58.3	62.4	58.3	58.3	61.1	70.6	89.5	119.4	143.8
29.8	22.5°	40.7	47.5	52.9	51.6	51.6	52.9	65.1	85.5	120.8	160.1
17.6	25°	29.8	36.6	40.7	43.4	43.4	47.5	59.7	82.8	126.2	194.0
8.1	27.5°	17.6	25.8	31.2	33.9	35.3	40.7	55.6	80.0	135.7	242.9
0.0	30°	8.1	14.9	21.7	27.1	27.1	36.6	51.6	77.3	147.9	313.4
0.0	32.5°	0.0	6.8	10.9	19.0	20.4	29.8	47.5	74.6	165.5	381.3
0.0	35°	0.0	0.0	5.4	14.9	14.9	24.4	43.4	71.9	192.7	432.8
0.0	37.5°	0.0	0.0	0.0	10.9	12.2	21.7	42.1	70.6	198.1	436.9
0.0	40°	0.0	0.0	0.0	8.1	9.5	20.4	42.1	71.9	179.1	427.4
0.0	42.5°	0.0	0.0	0.0	5.4	6.8	20.4	42.1	74.6	161.5	438.2
0.0	45°	0.0	0.0	0.0	4.1	5.4	21.7	40.7	73.3	152.0	495.2
0.0	47.5°	0.0	0.0	0.0	5.4	8.1	21.7	39.3	71.9	153.3	683.8
0.0	50°	0.0	0.0	0.0	6.8	9.5	21.7	40.7	69.2	168.2	1051.5
0.0	52.5°	0.0	0.0	0.0	5.4	8.1	24.4	44.8	67.8	183.2	1367.6
0.0	55°	0.0	0.0	0.0	1.4	4.1	31.2	48.8	67.8	206.2	1446.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	35.3	55.6	71.9	244.2	1415.1
0.0	58°	0.0	0.0	0.0	0.0	0.0	35.3	57.0	71.9	246.9	1388.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	35.3	62.4	80.0	265.9	1236.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	29.8	74.6	100.4	276.8	971.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	24.4	88.2	109.9	284.9	773.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	23.1	90.9	111.3	289.0	616.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	24.4	89.5	119.4	302.6	500.7
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	27.1	81.4	131.6	302.6	443.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	28.5	76.0	147.9	275.4	384.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	27.1	74.6	172.3	245.6	316.1
0.0	80°	2.7	4.1	4.1	2.7	2.7	23.1	73.3	175.0	208.9	217.1
1.4	82.5°	8.1	10.9	9.5	6.8	6.8	20.4	65.1	146.5	108.5	93.6
8.1	85°	14.9	17.6	17.6	14.9	14.9	19.0	40.7	52.9	36.6	29.8
14.9	87.5°	20.4	23.1	23.1	20.4	20.4	19.0	17.6	16.3	14.9	14.9
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

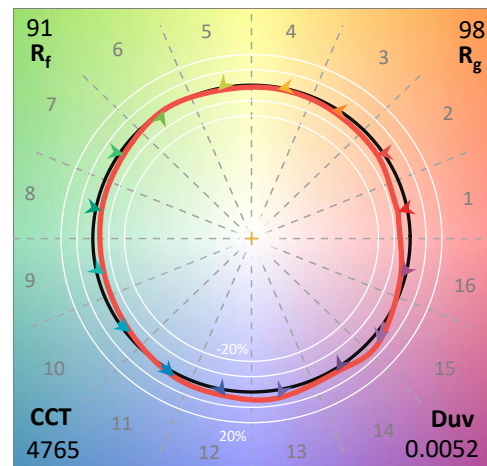
Test Information

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

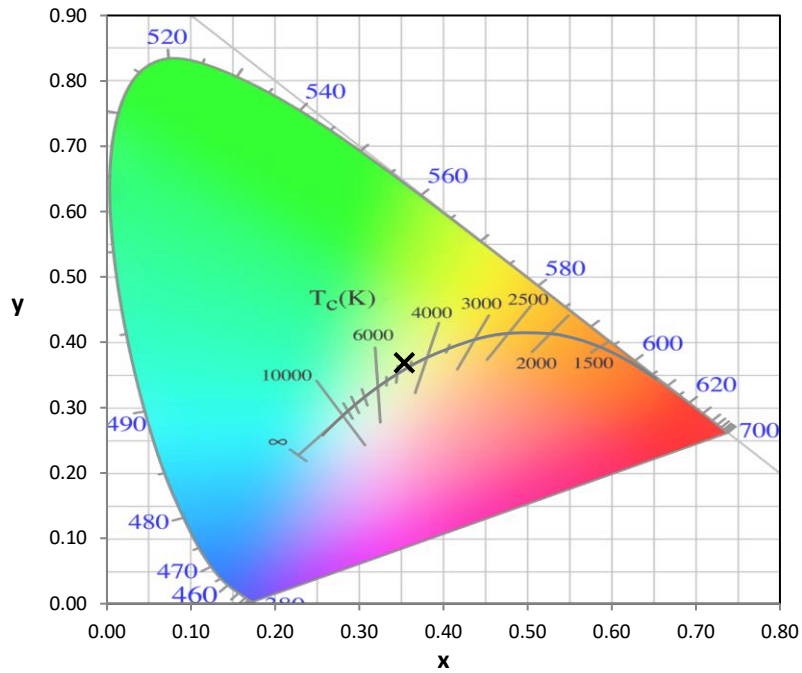
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

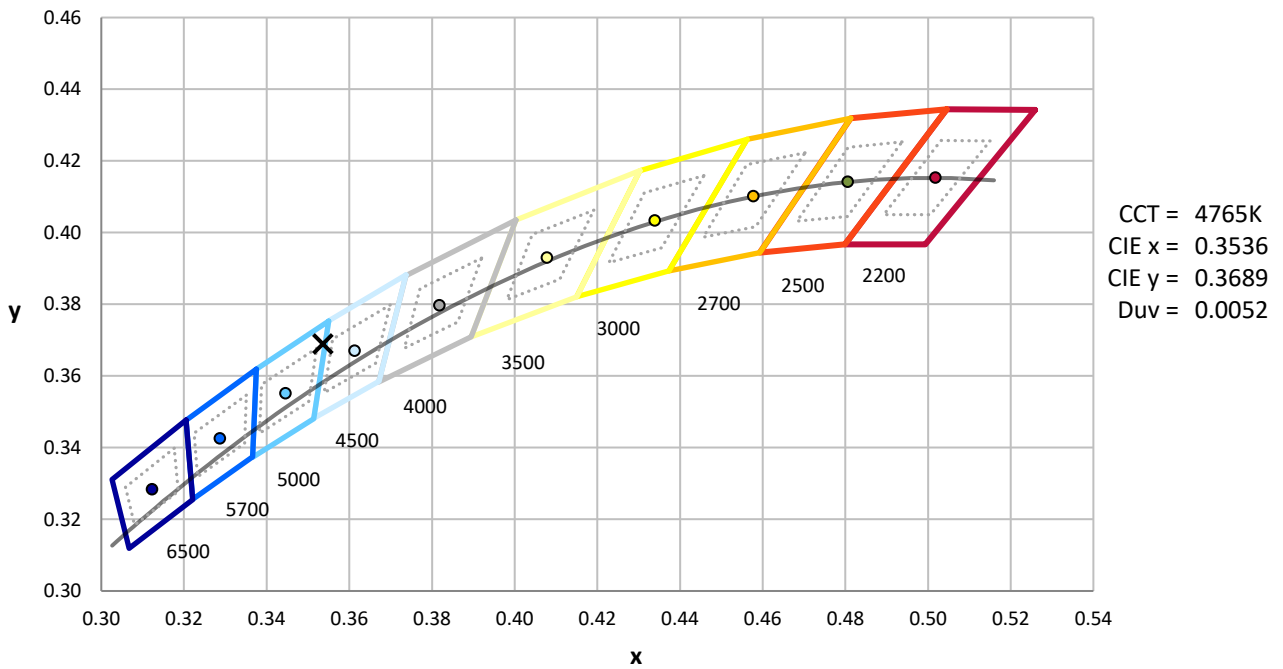
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



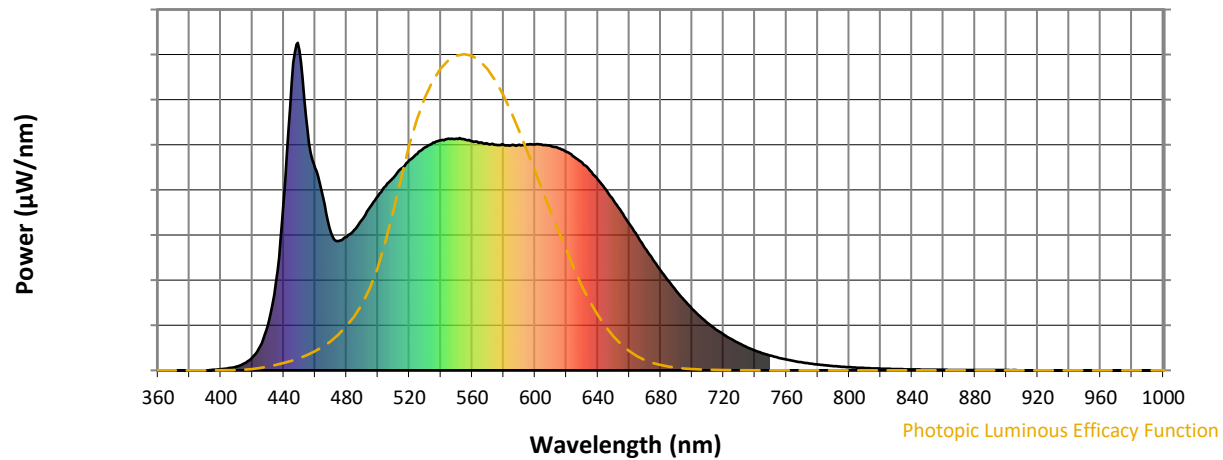
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

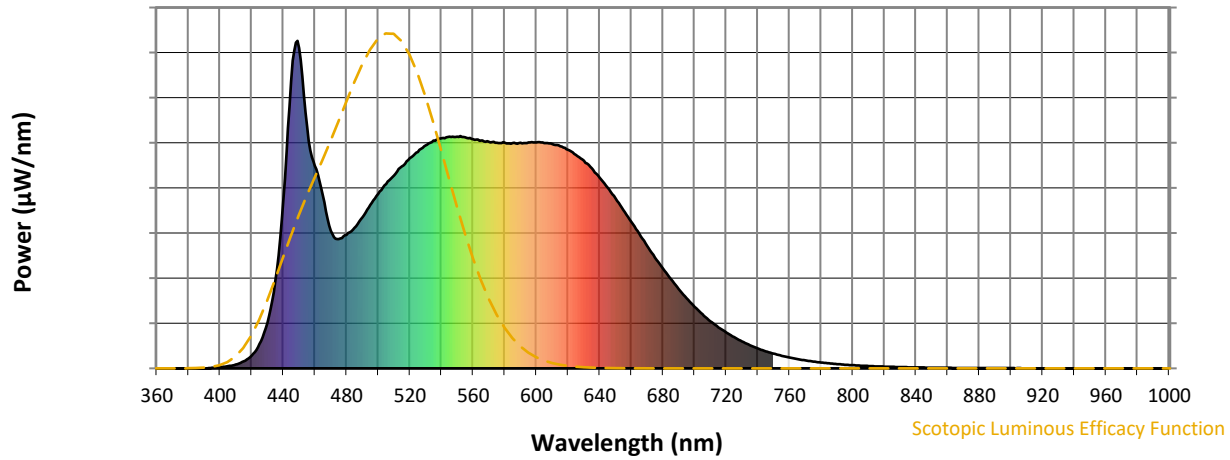


Photopic Lumens: NR

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



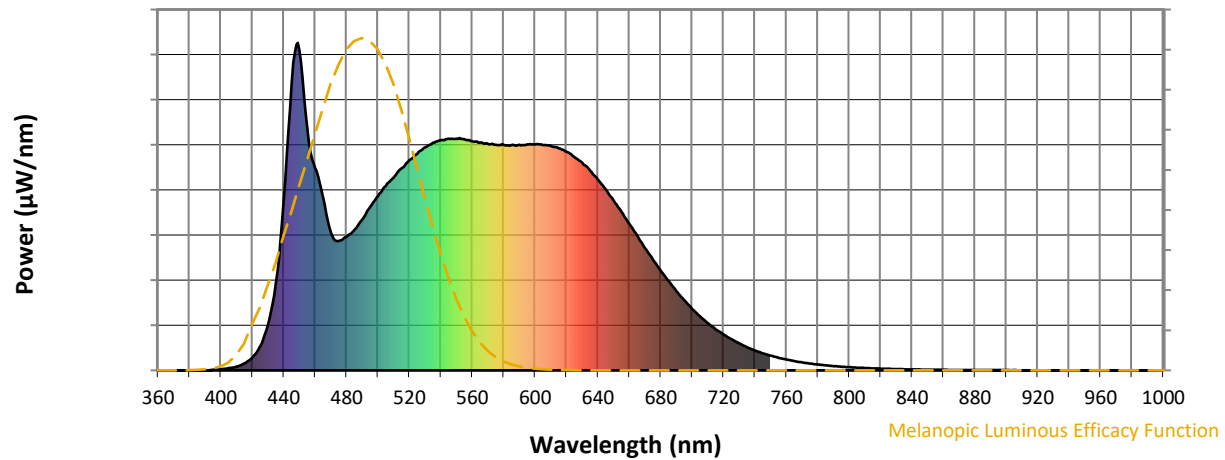
Scotopic Lumens: NR

S/P: 1.99

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 4.22

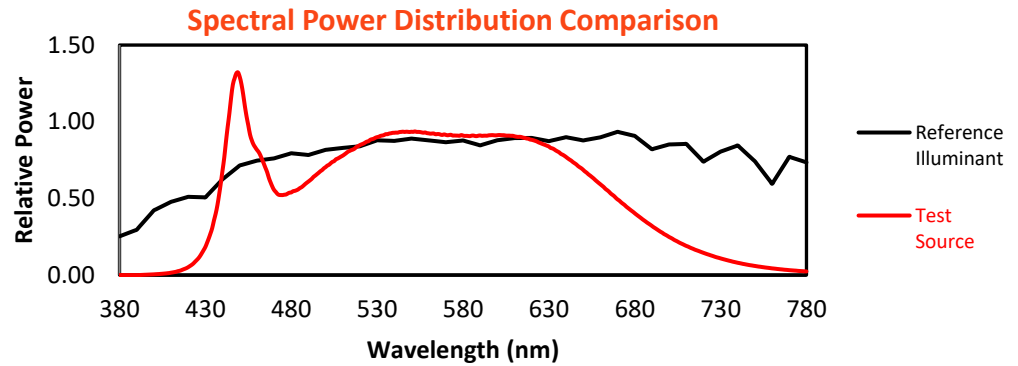
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462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

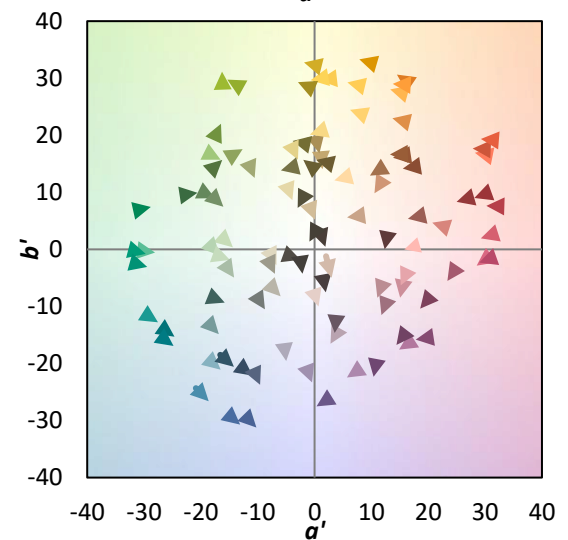
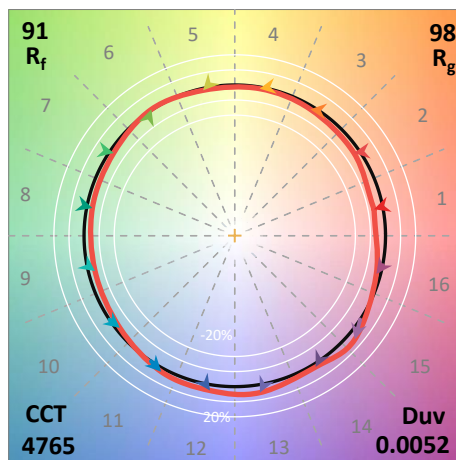
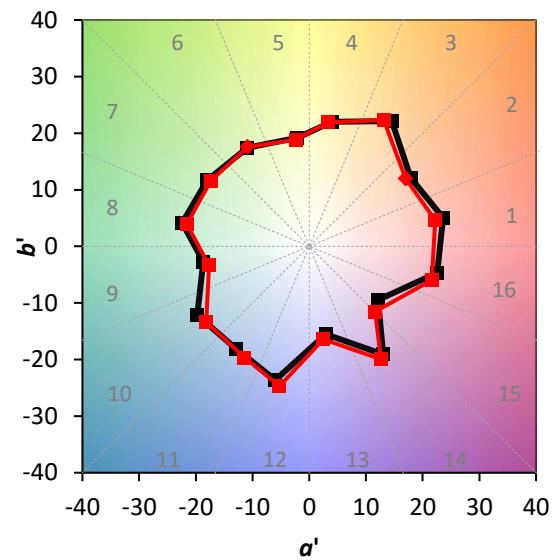
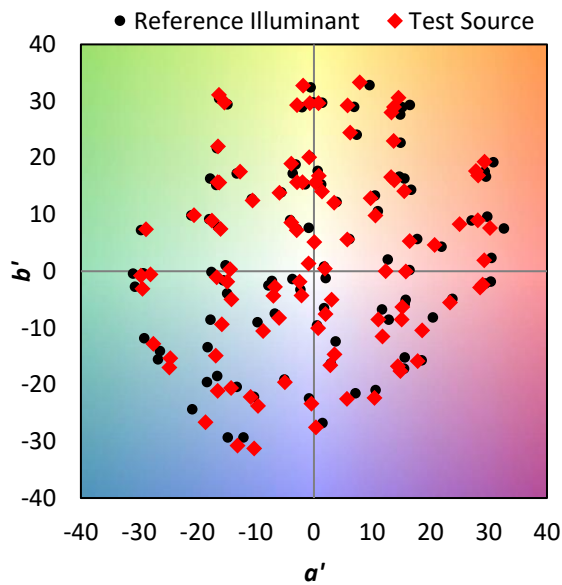
TM-30-18

Summary

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

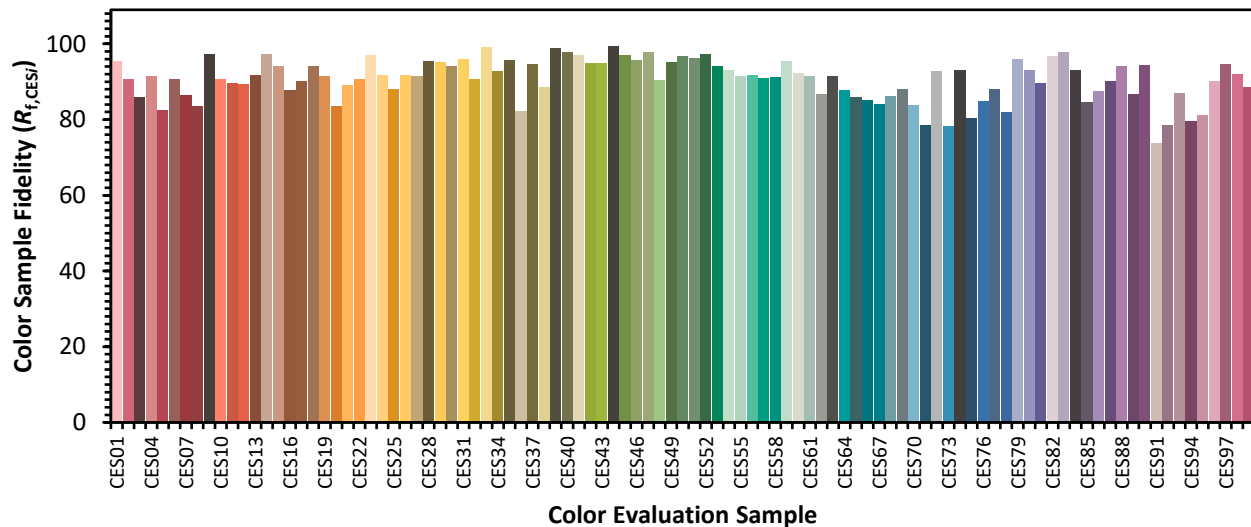


Color Vector Graphics

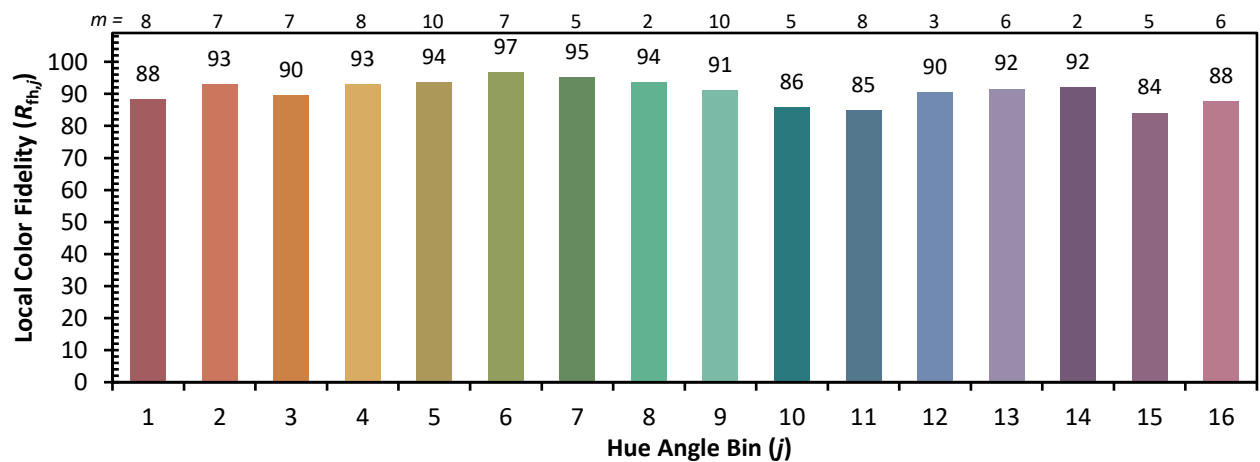
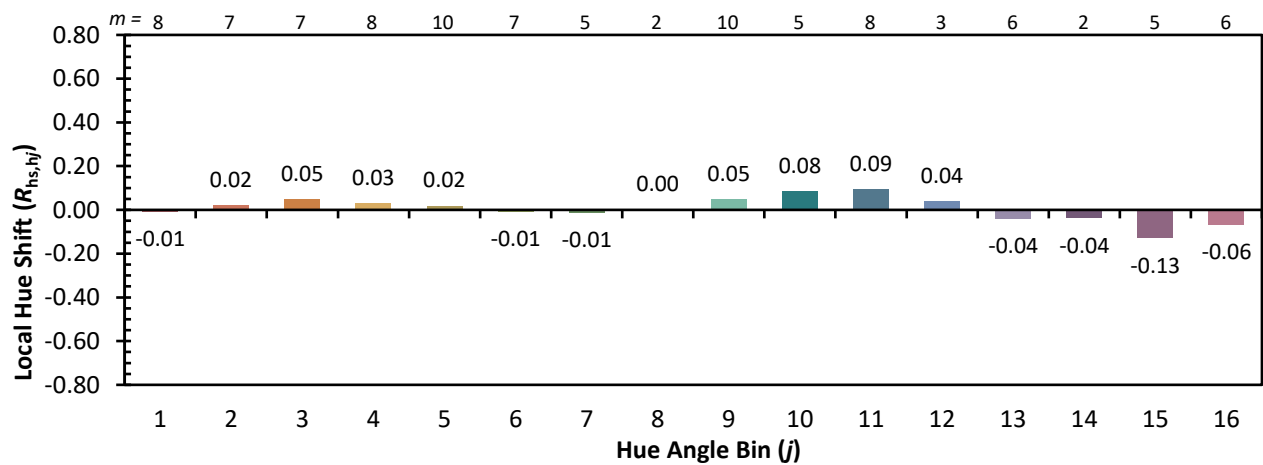
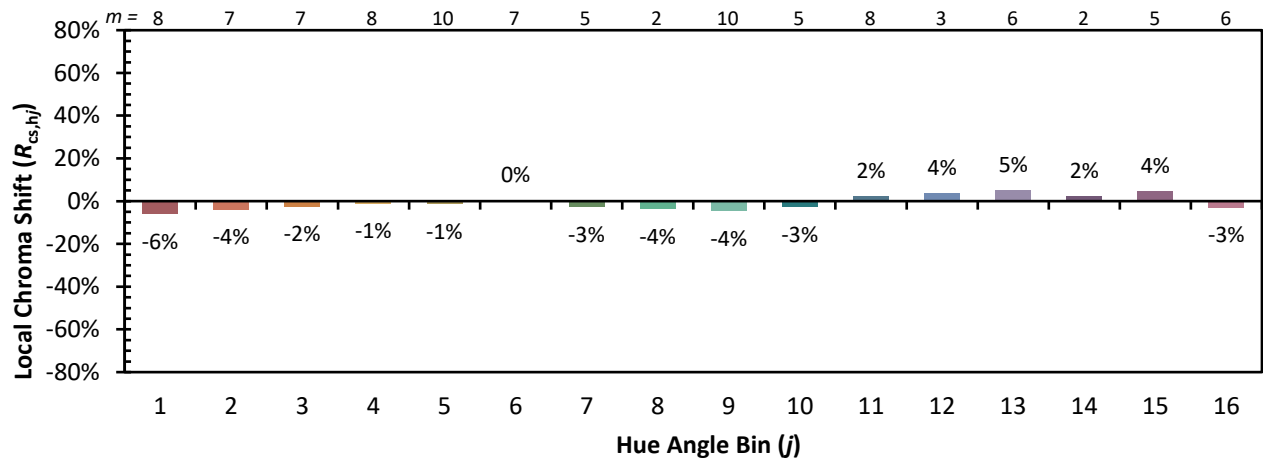


Individual Sample Fidelity Index ($R_{f,i}$)

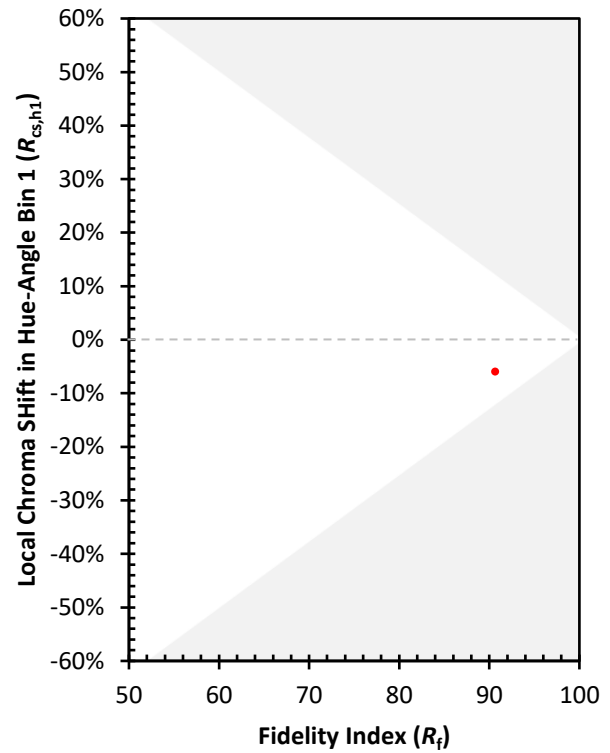
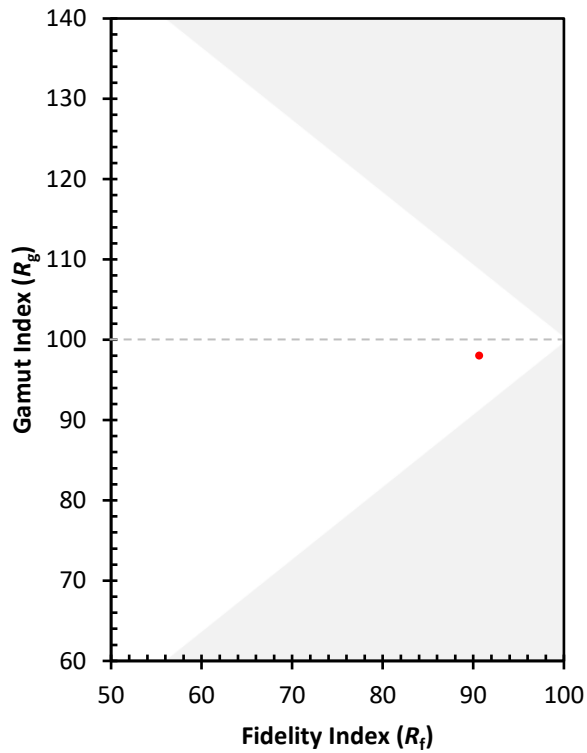
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82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