

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: P1050059

Luminaire Tested: **GALN-SA6C-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050059
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23929 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

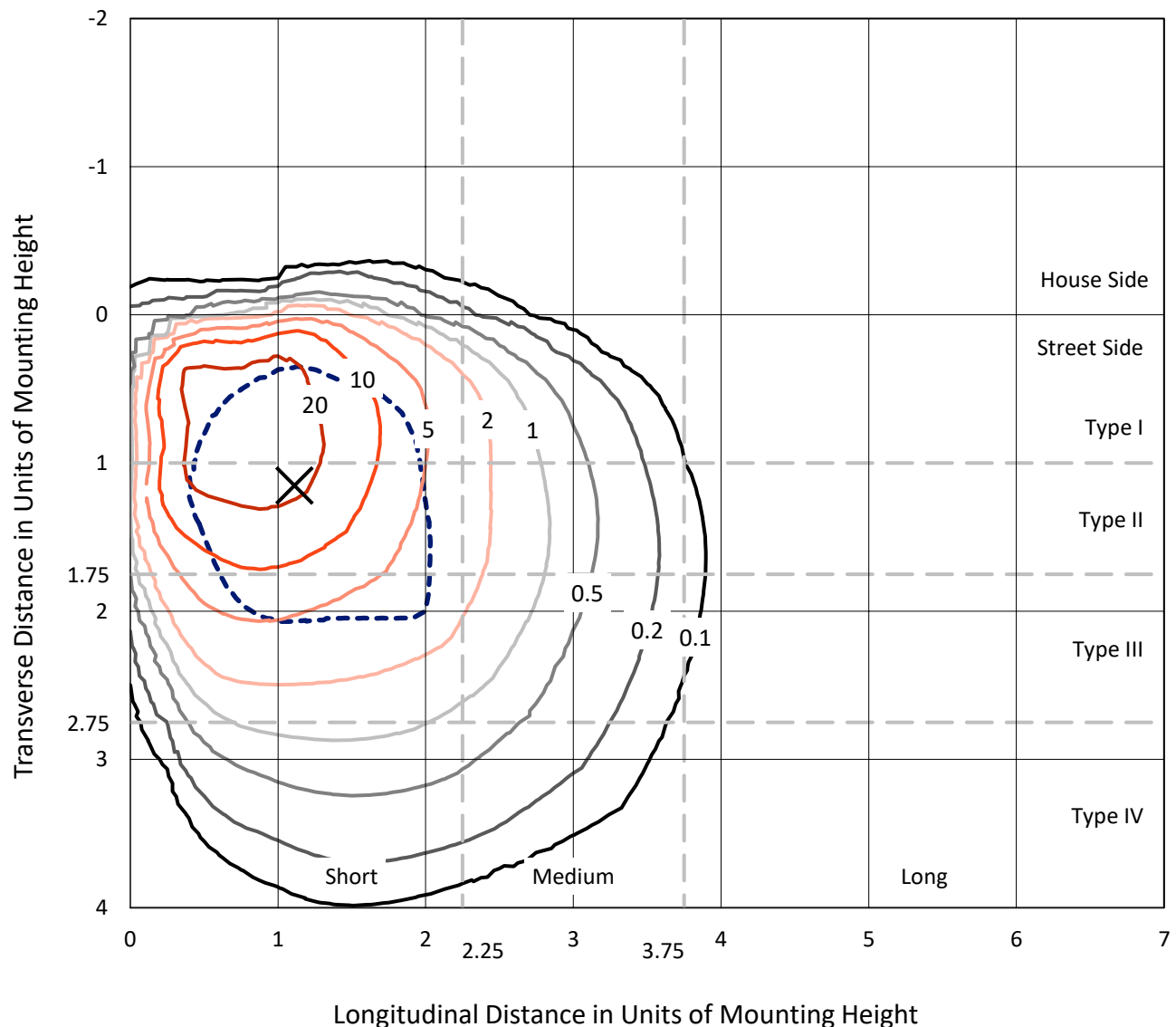
Input Watts (W): 282.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

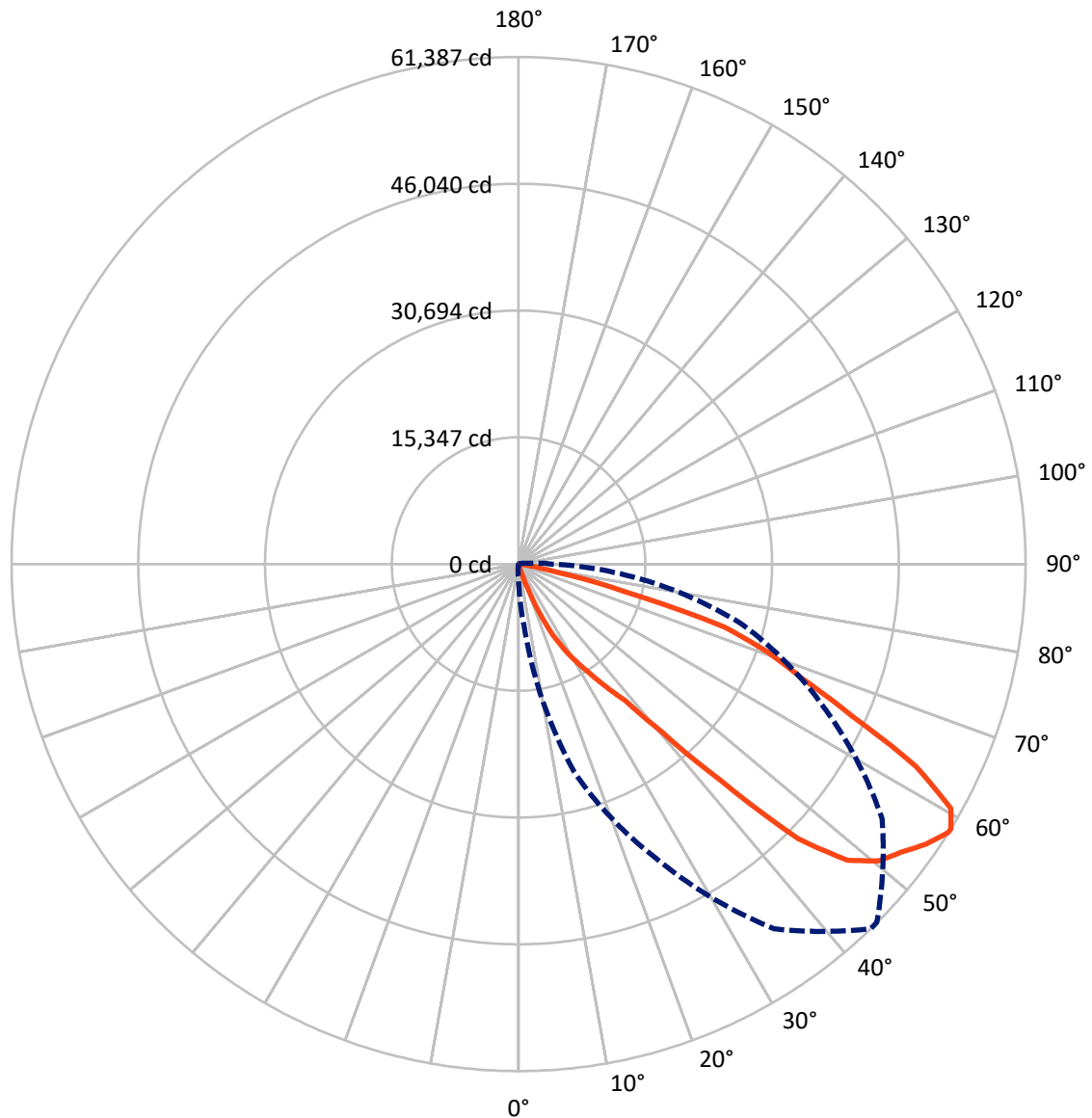
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.7 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	163.4	0.0	163.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23765.6	0.0	23765.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	23929.0	0.0	23929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.0
10°-20°	52.5	0.2
20°-30°	566.9	2.4
30°-40°	1676.5	7.0
40°-50°	4996.8	20.9
50°-60°	7928.7	33.1
60°-70°	6613.4	27.6
70°-80°	2039.7	8.5
80°-90°	45.3	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°	23929.0	100.0
0°-180°	23929.0	100.0



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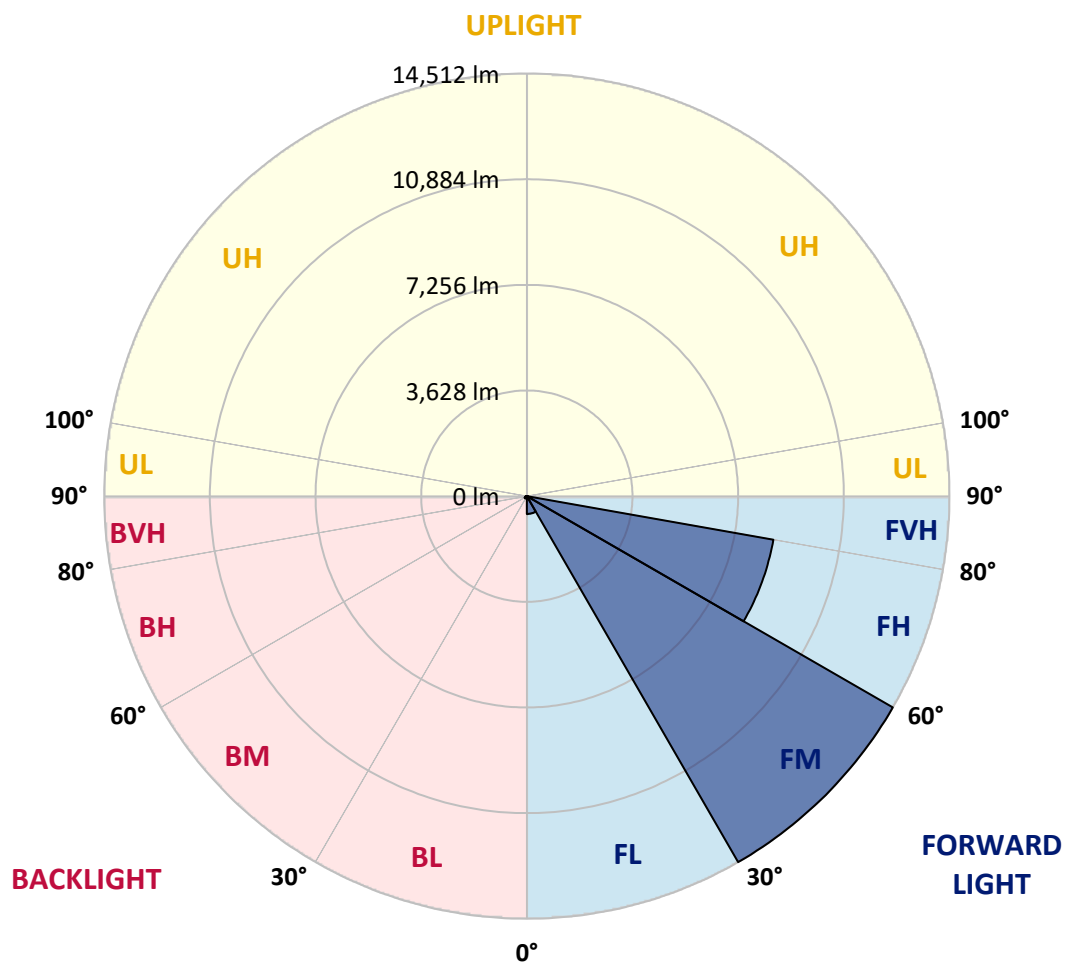
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	612.7	2.6			
FM	(30°-60°)	14512.4	60.6			
FH	(60°-80°)	8597.3	35.9			G4/12000
FVH	(80°-90°)	43.1	0.2			G1/100
BL	(0°-30°)	16.0	0.1	B0/110		
BM	(30°-60°)	89.4	0.4	B0/220		
BH	(60°-80°)	55.8	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8
2.5°	135.6	135.6	130.1	122.9	115.7	108.5	106.7	103.0	101.2	99.4
5°	141.0	141.0	139.2	133.8	126.5	121.1	121.1	115.7	112.1	108.5
7.5°	144.6	146.4	150.0	148.2	144.6	139.2	139.2	135.6	130.1	121.1
10°	150.0	155.5	162.7	166.3	168.1	168.1	166.3	164.5	155.5	142.8
12.5°	155.5	166.3	184.4	202.5	213.3	227.8	226.0	222.3	198.8	171.7
15°	166.3	182.6	220.5	273.0	354.3	404.9	424.8	406.7	329.0	231.4
17.5°	179.0	206.1	320.0	571.2	936.4	1109.9	1214.7	1129.8	748.4	439.3
20°	191.6	251.3	594.7	1480.5	2429.5	2997.1	3154.3	2908.5	1867.3	836.9
22.5°	213.3	352.5	1205.7	3060.3	5234.9	6086.3	6247.2	5460.9	3526.7	1652.2
25°	258.5	511.6	2078.8	4987.3	7812.6	9249.7	9182.8	8152.4	5721.2	2639.1
27.5°	323.6	744.7	3143.5	7085.9	10281.8	11549.0	11700.8	10426.4	7626.4	3881.0
30°	417.6	1032.2	4285.9	8767.0	12261.2	13631.4	13656.7	12338.9	9331.0	4971.0
32.5°	507.9	1303.3	5285.5	10392.1	14211.6	15713.8	15825.8	14204.4	10603.6	6106.2
35°	576.6	1480.5	6297.8	11820.1	16178.3	18248.1	18240.8	16315.7	12111.1	7120.3
37.5°	582.1	1657.6	7214.3	13280.7	18669.2	20986.6	21216.2	19094.0	13933.2	8374.8
40°	569.4	1856.4	8374.8	15558.3	23157.6	26713.2	26915.7	24240.4	17588.3	10522.2
42.5°	583.9	2201.7	10258.3	19764.7	30610.5	35717.0	36107.5	33294.8	24307.3	14903.9
45°	659.8	2850.6	14204.4	26801.8	41233.9	47459.4	47329.3	43278.4	32125.3	21574.1
47.5°	911.0	4439.5	20053.9	33650.9	48023.4	53567.4	53679.5	48728.4	36687.7	26702.4
50°	1400.9	6793.1	24968.9	37271.6	50942.7	56504.8	56400.0	50678.8	38421.3	29227.6
52.5°	1822.1	8495.9	27434.5	38542.4	51316.9	57956.4	57949.1	51192.2	38690.6	29444.6
55°	1926.9	8624.2	27454.3	38611.1	52155.7	59856.2	60094.8	52455.7	39039.5	28497.4
57.5°	1885.4	7635.4	26308.3	39008.7	53648.8	61325.8	61338.5	53679.5	39925.2	27917.1
58°	1849.2	7480.0	26076.9	39234.7	53905.5	61387.3	61356.5	53735.5	40646.5	27895.4
60°	1646.8	6494.8	25174.9	39811.3	53524.1	60125.5	59838.1	52511.8	40539.8	27673.1
62.5°	1294.3	5066.8	24287.4	39144.3	49435.2	54017.5	54136.8	46490.5	36957.1	26377.0
65°	1030.4	3776.1	22436.4	34336.0	40707.9	44359.3	44804.0	37804.9	30847.3	22335.1
67.5°	820.7	2729.5	18821.1	27336.9	32212.0	37022.2	37345.7	31740.3	23898.7	17112.9
70°	667.0	1845.6	12991.5	19992.4	26568.6	31977.1	31996.9	26368.0	17837.7	11212.8
72.5°	591.1	1278.0	7541.5	14580.4	21543.4	26057.0	25531.0	21397.0	13709.1	6641.2
75°	511.6	847.8	3698.4	8913.4	13062.0	13150.5	13351.2	9925.7	6852.7	3157.9
77.5°	421.2	601.9	1457.0	2434.9	3917.1	5014.4	5200.6	3940.6	2279.4	777.3
80°	289.2	285.6	392.3	746.6	1120.7	1404.5	1310.5	1014.1	596.5	298.3
82.5°	124.7	135.6	177.1	213.3	173.5	168.1	160.9	103.0	79.5	61.5
85°	39.8	36.2	38.0	38.0	30.7	23.5	23.5	10.8	0.0	0.0
87.5°	19.9	16.3	16.3	14.5	9.0	3.6	1.8	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°
104.8	0°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8
97.6	2.5°	95.8	95.8	92.2	88.6	86.8	83.2	81.3	79.5	77.7	75.9
104.8	5°	101.2	99.4	94.0	88.6	83.2	77.7	74.1	70.5	66.9	65.1
115.7	7.5°	110.3	106.7	95.8	86.8	79.5	72.3	68.7	63.3	59.7	54.2
128.3	10°	121.1	113.9	99.4	88.6	77.7	68.7	63.3	57.8	52.4	45.2
146.4	12.5°	135.6	122.9	104.8	86.8	74.1	63.3	57.8	50.6	45.2	39.8
169.9	15°	148.2	132.0	106.7	86.8	70.5	57.8	50.6	43.4	38.0	30.7
213.3	17.5°	166.3	139.2	104.8	81.3	65.1	50.6	43.4	38.0	28.9	18.1
316.3	20°	197.0	144.6	101.2	75.9	56.0	41.6	32.5	25.3	12.7	3.6
475.4	22.5°	245.8	159.1	97.6	68.7	48.8	32.5	21.7	9.0	0.0	0.0
723.1	25°	339.8	184.4	97.6	65.1	43.4	23.5	7.2	0.0	0.0	0.0
1026.7	27.5°	451.9	218.7	97.6	56.0	34.3	12.7	0.0	0.0	0.0	0.0
1399.1	30°	565.8	256.7	97.6	48.8	27.1	1.8	0.0	0.0	0.0	0.0
1722.7	32.5°	674.2	289.2	99.4	41.6	18.1	0.0	0.0	0.0	0.0	0.0
2171.0	35°	784.5	294.6	97.6	36.2	10.8	0.0	0.0	0.0	0.0	0.0
2720.5	37.5°	925.5	283.8	92.2	32.5	5.4	0.0	0.0	0.0	0.0	0.0
3579.1	40°	1138.8	289.2	86.8	30.7	1.8	0.0	0.0	0.0	0.0	0.0
5110.2	42.5°	1532.9	312.7	79.5	30.7	0.0	0.0	0.0	0.0	0.0	0.0
8139.8	45°	2650.0	419.4	72.3	32.5	0.0	0.0	0.0	0.0	0.0	0.0
12219.6	47.5°	4383.5	753.8	70.5	32.5	0.0	0.0	0.0	0.0	0.0	0.0
14719.6	50°	5594.6	949.0	74.1	34.3	0.0	0.0	0.0	0.0	0.0	0.0
15032.3	52.5°	5585.6	1057.5	77.7	36.2	7.2	0.0	0.0	0.0	0.0	0.0
13855.5	55°	4965.6	1077.4	83.2	39.8	23.5	0.0	0.0	0.0	0.0	0.0
11906.9	57.5°	4150.3	983.4	95.8	48.8	43.4	0.0	0.0	0.0	0.0	0.0
11601.4	58°	4005.7	940.0	99.4	50.6	47.0	0.0	0.0	0.0	0.0	0.0
10063.1	60°	3282.7	766.4	126.5	63.3	63.3	0.0	0.0	0.0	0.0	0.0
8250.0	62.5°	2266.8	668.8	144.6	81.3	65.1	0.0	0.0	0.0	0.0	0.0
6082.7	65°	1603.4	603.7	157.3	86.8	52.4	0.0	0.0	0.0	0.0	0.0
4322.1	67.5°	1198.5	556.8	173.5	88.6	27.1	0.0	0.0	0.0	0.0	0.0
2711.5	70°	918.3	522.4	213.3	94.0	7.2	0.0	0.0	0.0	0.0	0.0
1616.0	72.5°	748.4	482.6	258.5	97.6	0.0	0.0	0.0	0.0	0.0	0.0
968.9	75°	620.0	435.6	249.5	106.7	0.0	0.0	0.0	0.0	0.0	0.0
517.0	77.5°	412.1	338.0	227.8	106.7	0.0	0.0	0.0	0.0	0.0	0.0
184.4	80°	144.6	133.8	177.1	94.0	0.0	0.0	0.0	0.0	0.0	0.0
38.0	82.5°	21.7	18.1	25.3	32.5	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°
104.8	0°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8
74.1	2.5°	74.1	74.1	72.3	74.1	74.1	77.7	86.8	99.4	113.9	119.3
63.3	5°	61.5	59.7	57.8	57.8	57.8	63.3	70.5	85.0	101.2	108.5
52.4	7.5°	50.6	48.8	47.0	45.2	45.2	48.8	57.8	74.1	90.4	97.6
43.4	10°	41.6	38.0	36.2	34.3	34.3	38.0	47.0	63.3	81.3	88.6
36.2	12.5°	34.3	28.9	25.3	23.5	21.7	27.1	36.2	50.6	70.5	79.5
27.1	15°	23.5	18.1	12.7	10.8	9.0	14.5	23.5	39.8	59.7	70.5
14.5	17.5°	12.7	5.4	1.8	0.0	0.0	3.6	10.8	28.9	48.8	57.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	36.2	45.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.7	30.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.5
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°
104.8	0°	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8	104.8
124.7	2.5°	128.3	126.5	122.9	119.3	119.3	119.3	124.7	130.1	135.6	135.6
112.1	5°	119.3	119.3	117.5	113.9	113.9	115.7	122.9	132.0	139.2	141.0
103.0	7.5°	110.3	113.9	110.3	108.5	110.3	112.1	119.3	130.1	141.0	144.6
95.8	10°	104.8	106.7	106.7	104.8	104.8	108.5	115.7	130.1	144.6	150.0
86.8	12.5°	97.6	101.2	99.4	99.4	99.4	103.0	112.1	128.3	148.2	155.5
77.7	15°	90.4	95.8	95.8	94.0	94.0	95.8	108.5	126.5	153.6	166.3
66.9	17.5°	83.2	88.6	90.4	86.8	86.8	90.4	103.0	126.5	157.3	179.0
54.2	20°	68.7	77.7	83.2	77.7	77.7	81.3	94.0	119.3	159.1	191.6
39.8	22.5°	54.2	63.3	70.5	68.7	68.7	70.5	86.8	113.9	160.9	213.3
23.5	25°	39.8	48.8	54.2	57.8	57.8	63.3	79.5	110.3	168.1	258.5
10.8	27.5°	23.5	34.3	41.6	45.2	47.0	54.2	74.1	106.7	180.8	323.6
0.0	30°	10.8	19.9	28.9	36.2	36.2	48.8	68.7	103.0	197.0	417.6
0.0	32.5°	0.0	9.0	14.5	25.3	27.1	39.8	63.3	99.4	220.5	507.9
0.0	35°	0.0	0.0	7.2	19.9	19.9	32.5	57.8	95.8	256.7	576.6
0.0	37.5°	0.0	0.0	0.0	14.5	16.3	28.9	56.0	94.0	263.9	582.1
0.0	40°	0.0	0.0	0.0	10.8	12.7	27.1	56.0	95.8	238.6	569.4
0.0	42.5°	0.0	0.0	0.0	7.2	9.0	27.1	56.0	99.4	215.1	583.9
0.0	45°	0.0	0.0	0.0	5.4	7.2	28.9	54.2	97.6	202.5	659.8
0.0	47.5°	0.0	0.0	0.0	7.2	10.8	28.9	52.4	95.8	204.3	911.0
0.0	50°	0.0	0.0	0.0	9.0	12.7	28.9	54.2	92.2	224.1	1400.9
0.0	52.5°	0.0	0.0	0.0	7.2	10.8	32.5	59.7	90.4	244.0	1822.1
0.0	55°	0.0	0.0	0.0	1.8	5.4	41.6	65.1	90.4	274.8	1926.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	47.0	74.1	95.8	325.4	1885.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	47.0	75.9	95.8	329.0	1849.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	47.0	83.2	106.7	354.3	1646.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	39.8	99.4	133.8	368.8	1294.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	32.5	117.5	146.4	379.6	1030.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	30.7	121.1	148.2	385.0	820.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	32.5	119.3	159.1	403.1	667.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	36.2	108.5	175.3	403.1	591.1
0.0	75°	0.0	0.0	0.0	0.0	0.0	38.0	101.2	197.0	366.9	511.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	36.2	99.4	229.6	327.2	421.2
0.0	80°	3.6	5.4	5.4	3.6	3.6	30.7	97.6	233.2	278.4	289.2
1.8	82.5°	10.8	14.5	12.7	9.0	9.0	27.1	86.8	195.2	144.6	124.7
10.8	85°	19.9	23.5	23.5	19.9	19.9	25.3	54.2	70.5	48.8	39.8
19.9	87.5°	27.1	30.7	30.7	27.1	27.1	25.3	23.5	21.7	19.9	19.9
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

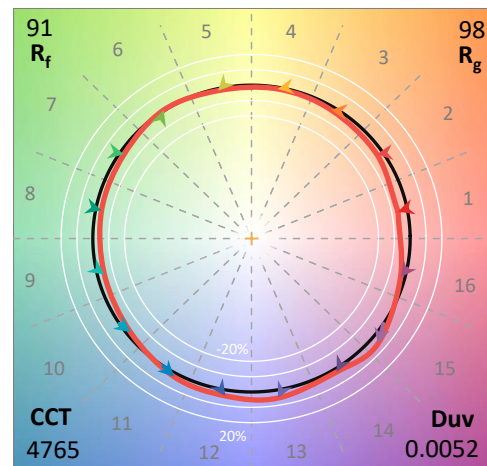
Test Information

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

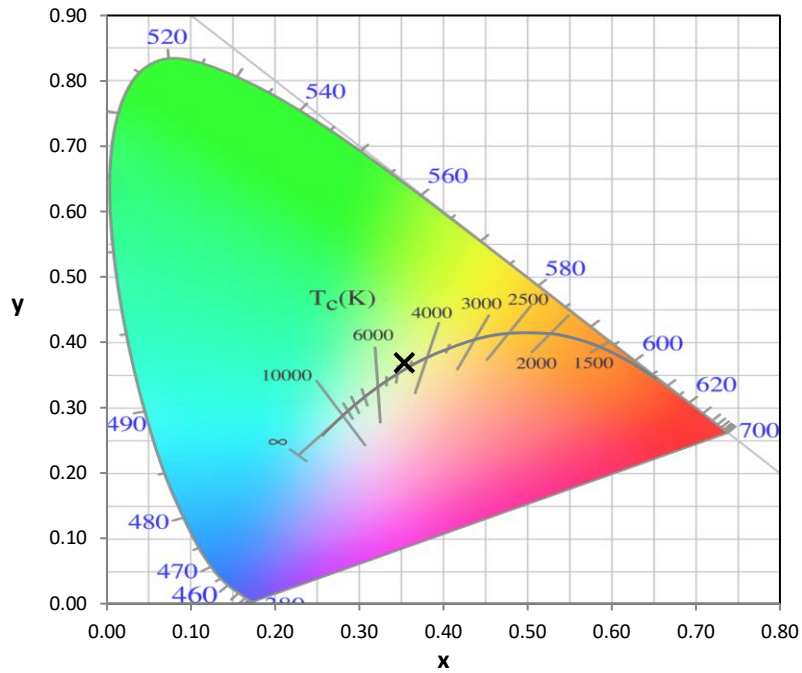
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

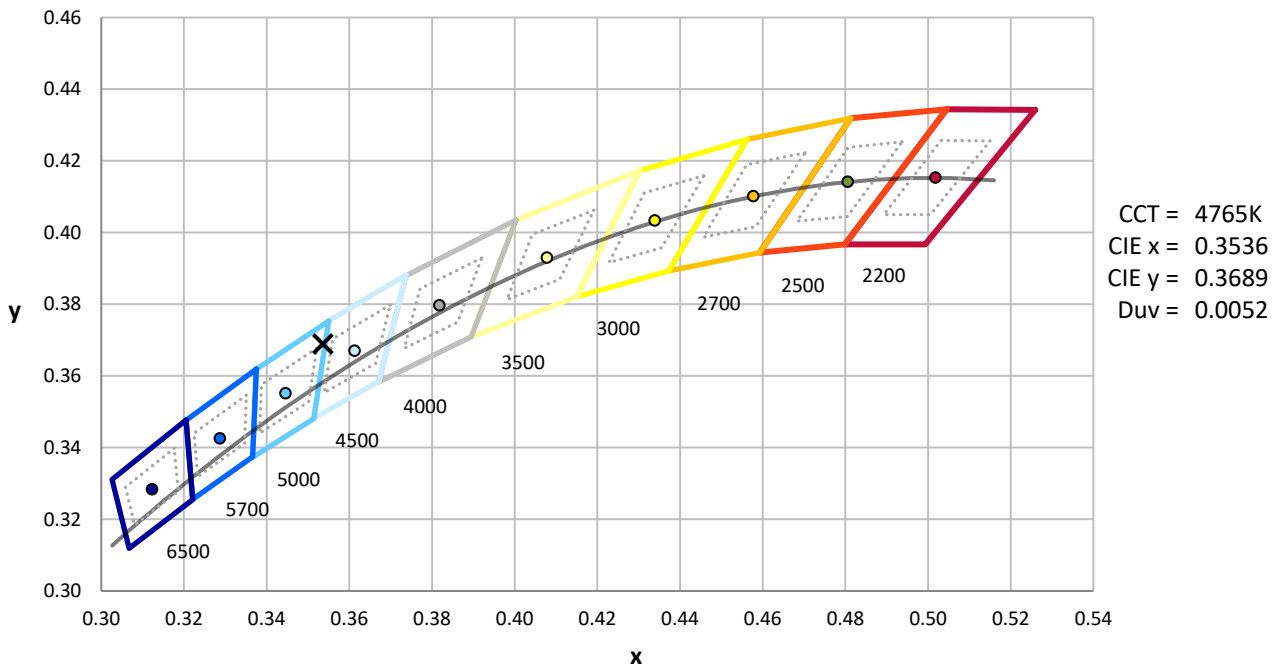
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



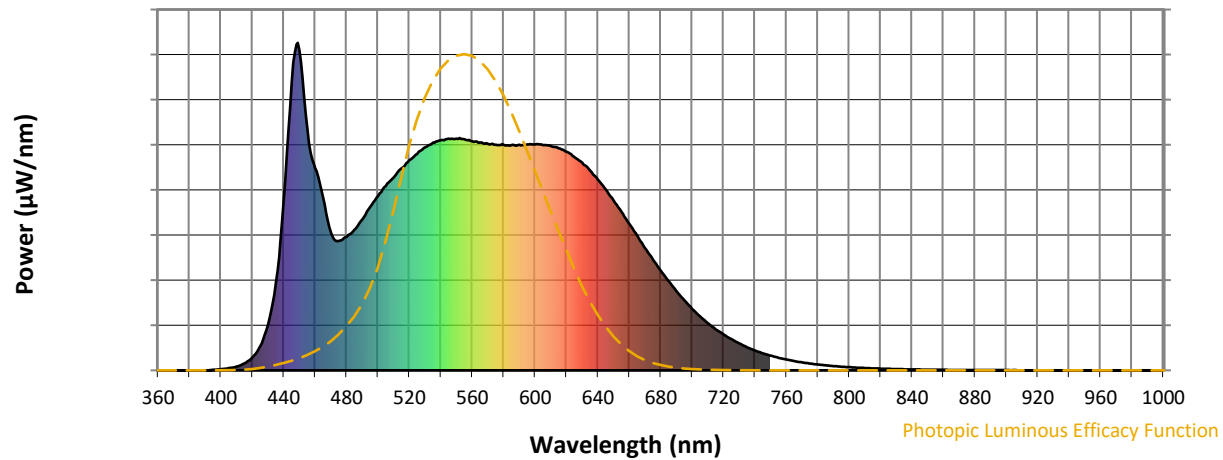
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

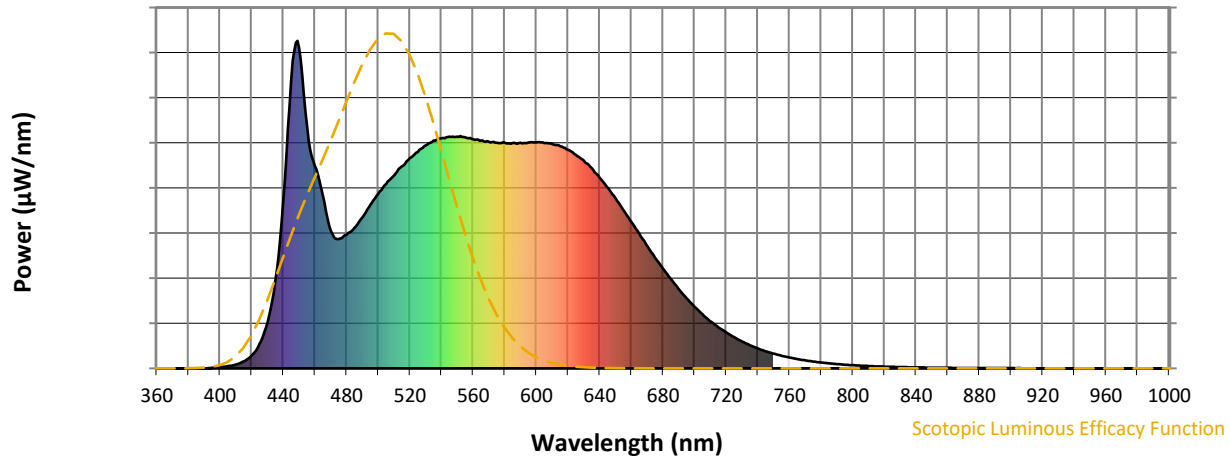


Photopic Lumens: NR

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



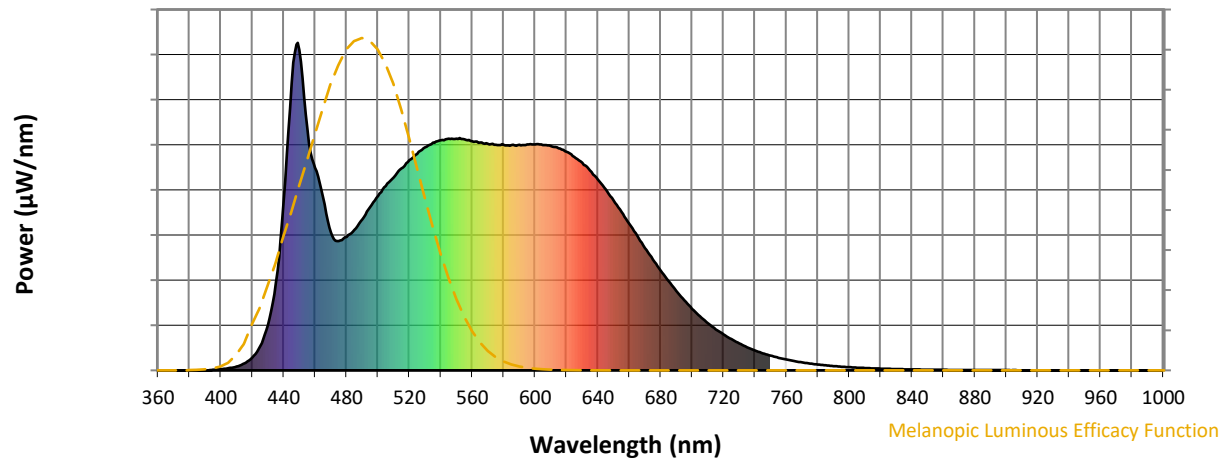
Scotopic Lumens: NR

S/P: 1.99

λ (nm)	Power 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

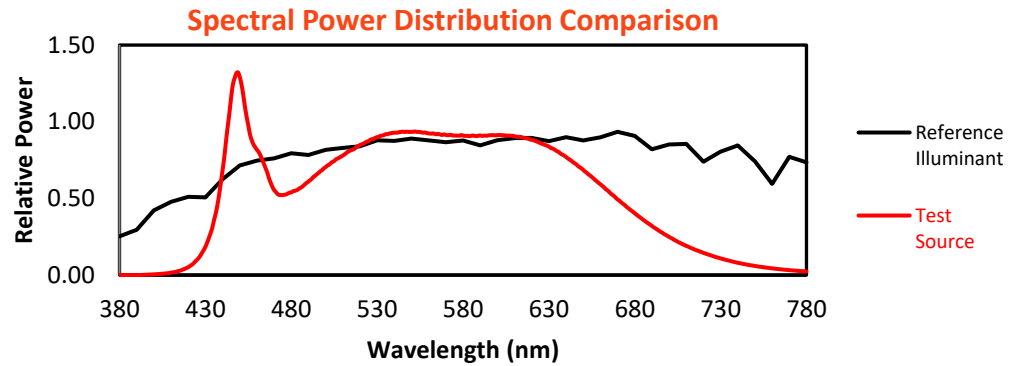
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	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

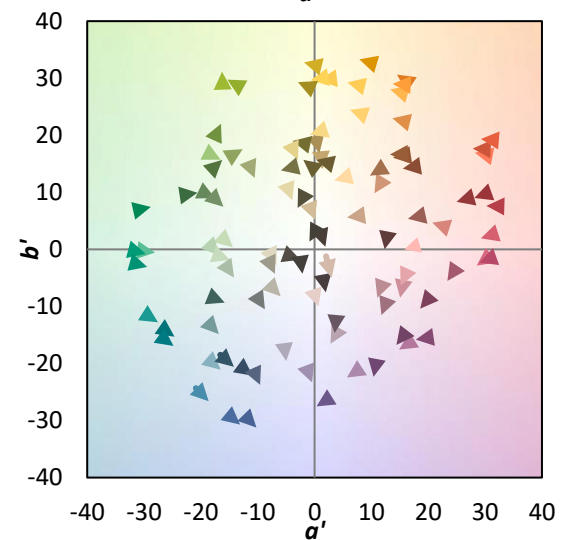
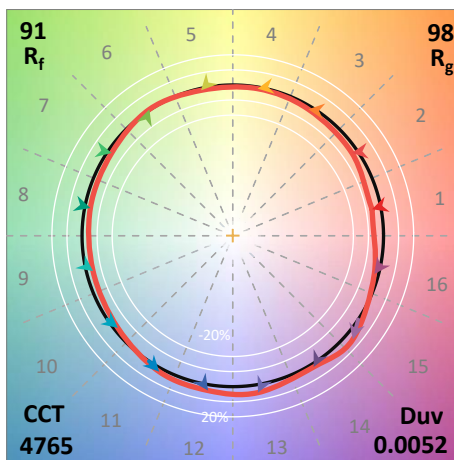
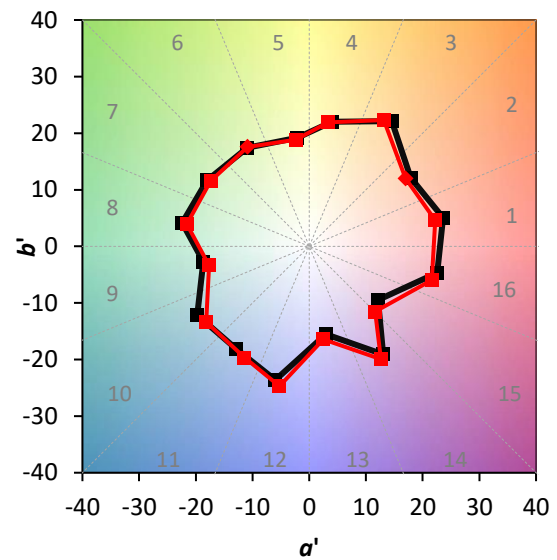
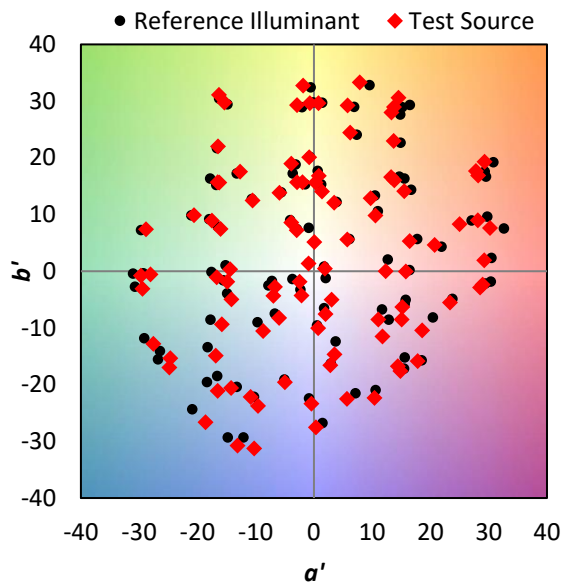
TM-30-18

Summary

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

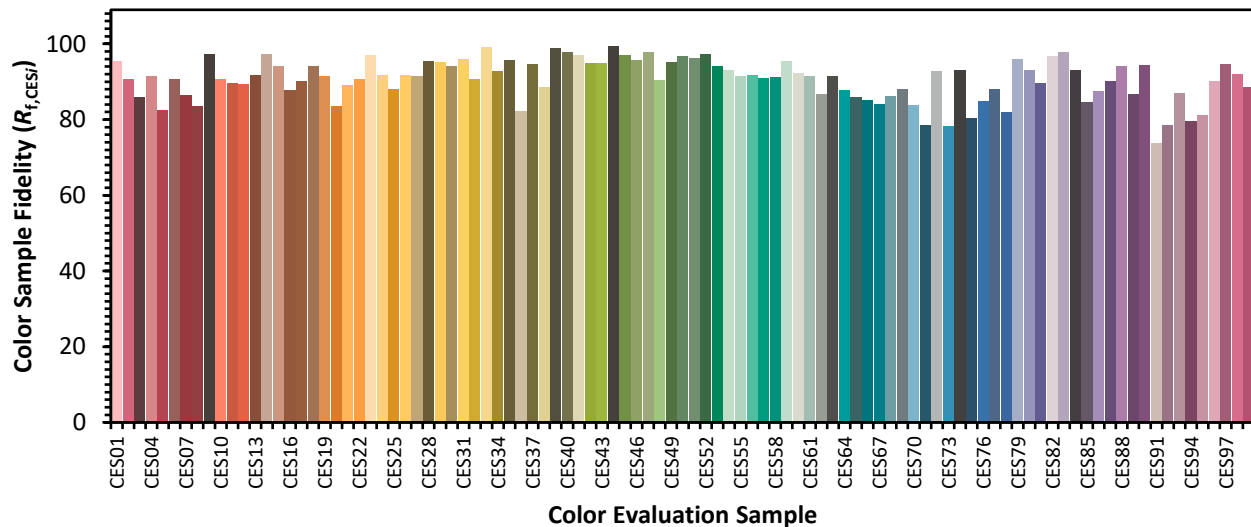


Color Vector Graphics

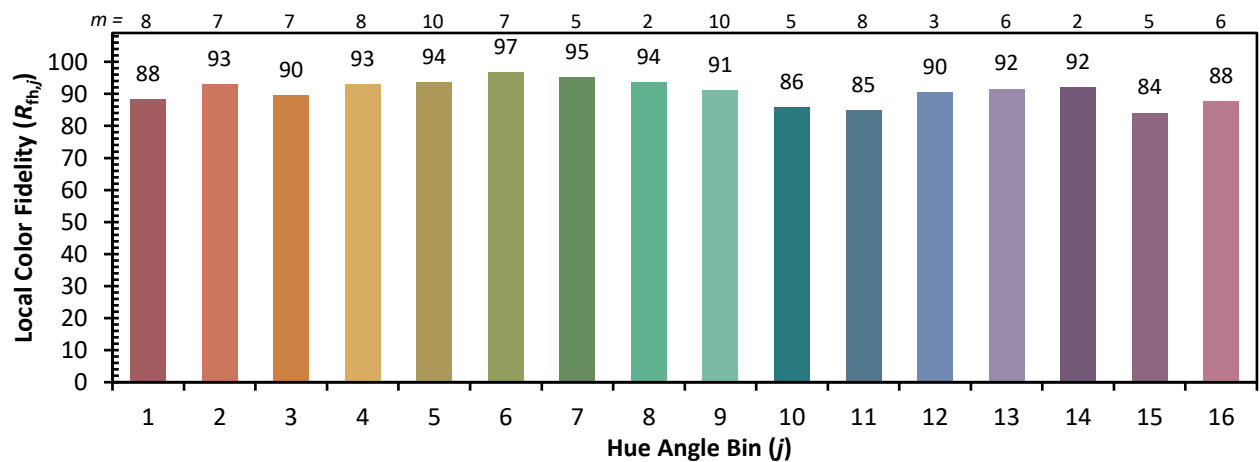
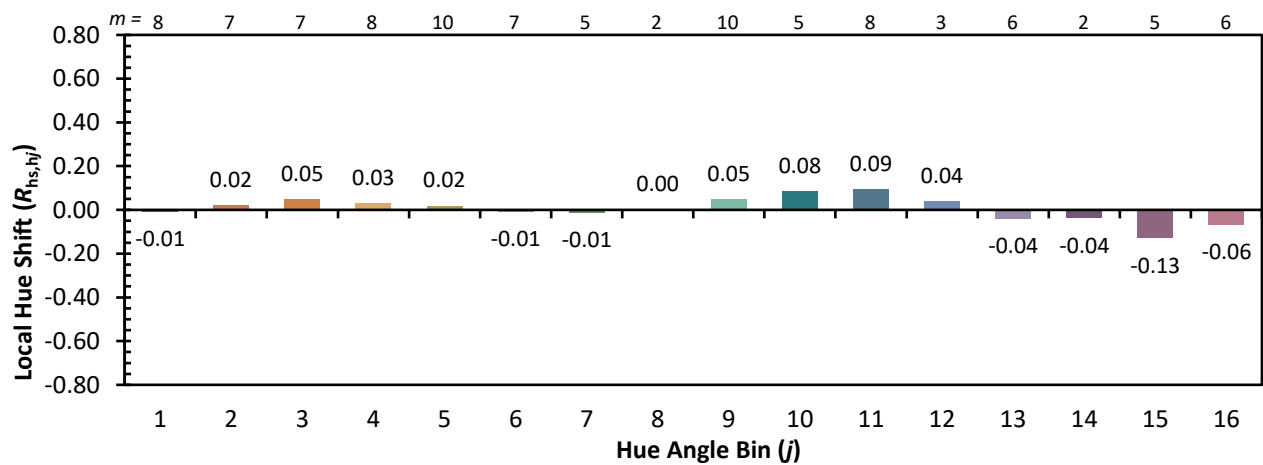
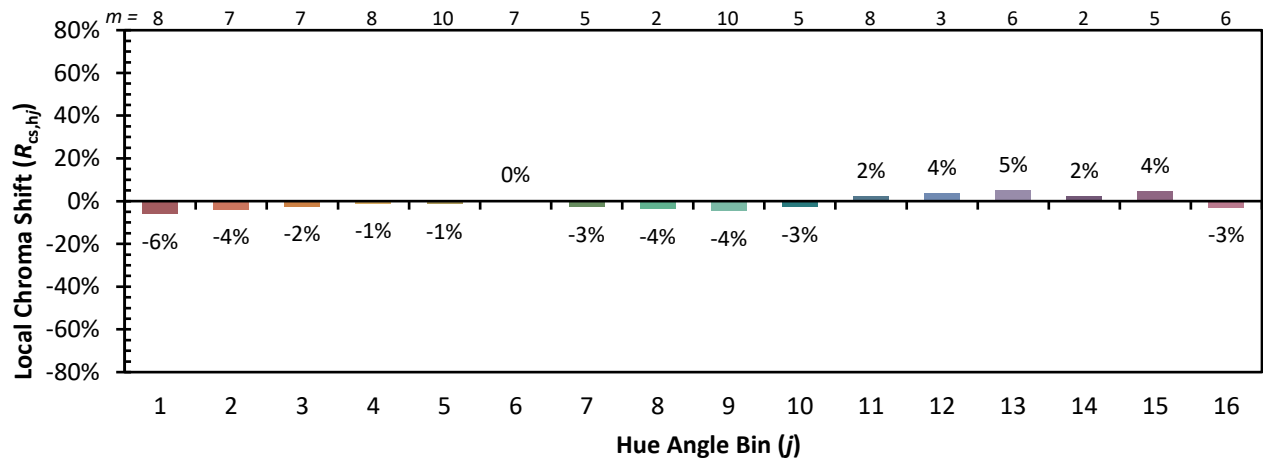


Individual Sample Fidelity Index ($R_{f,i}$)

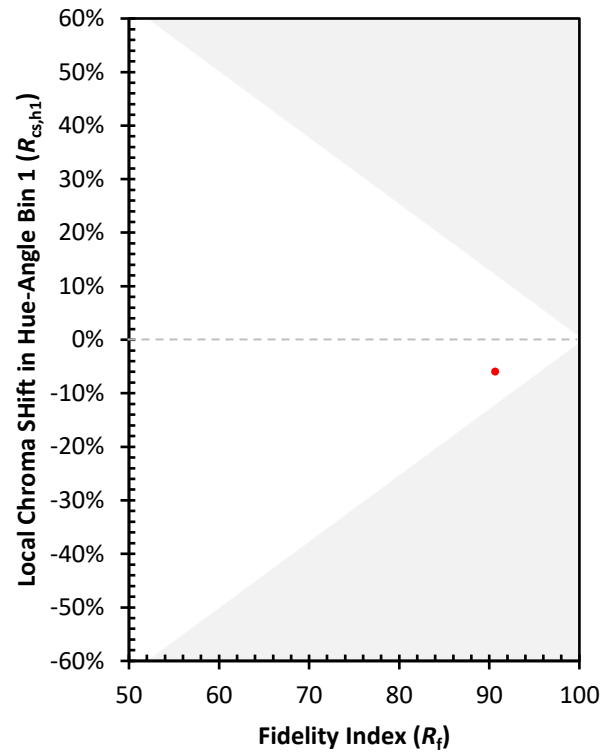
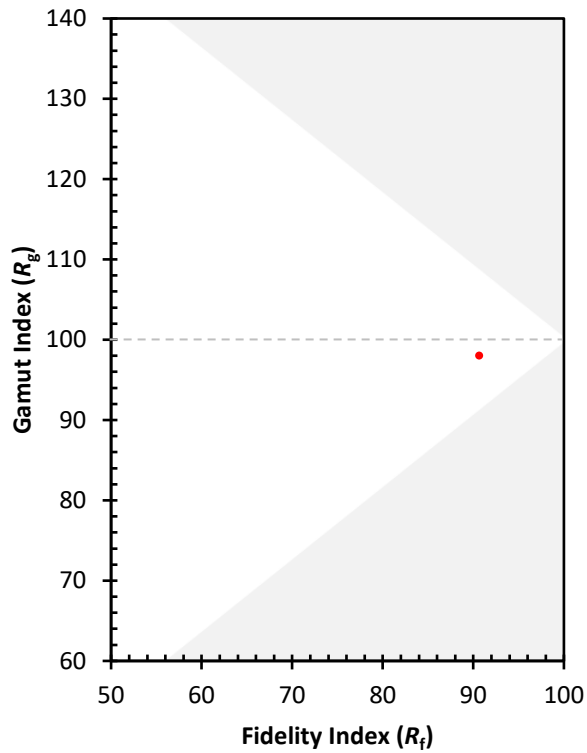
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82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