

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: P1049775

Luminaire Tested: **GALN-SA7C-830-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049775
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
80CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31687.4 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

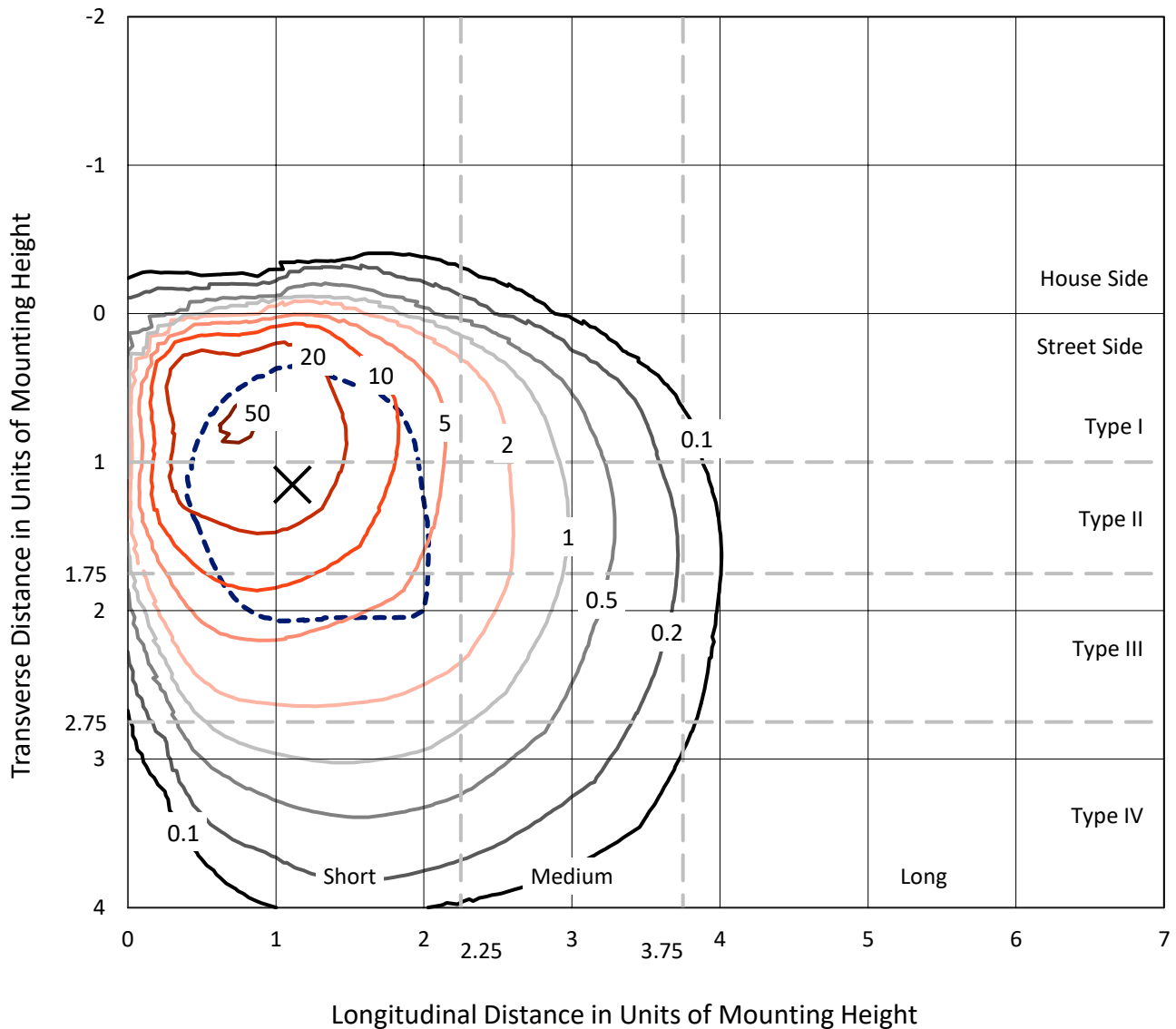
Input Watts (W): 330
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

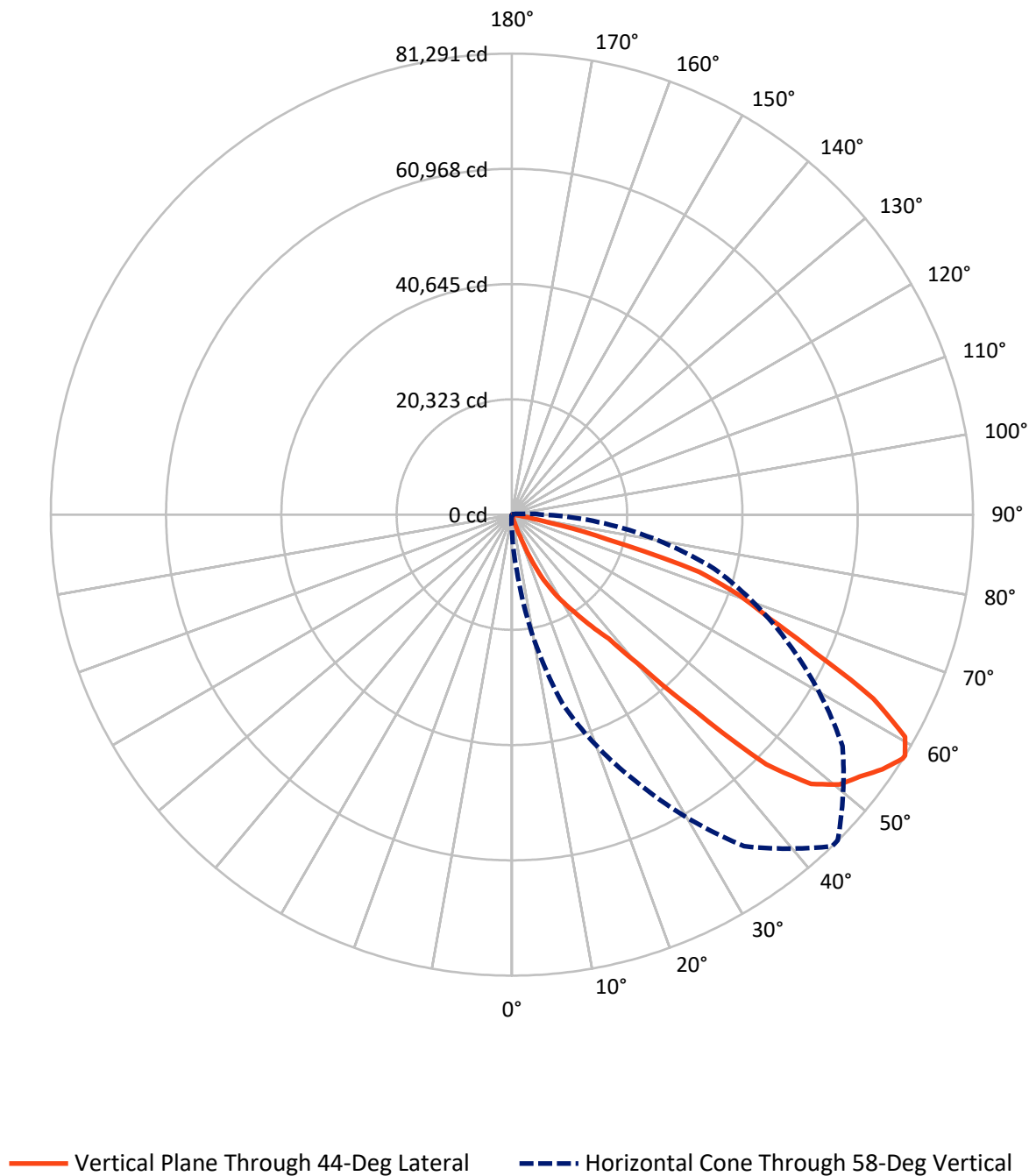


Based on 20 foot mounting height. Maximum calculated value = 55.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	216.4	0.0	216.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	31471.0	0.0	31471.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	31687.4	0.0	31687.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.0
10°-20°	69.5	0.2
20°-30°	750.7	2.4
30°-40°	2220.0	7.0
40°-50°	6616.8	20.9
50°-60°	10499.3	33.1
60°-70°	8757.7	27.6
70°-80°	2701.0	8.5
80°-90°	60.0	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°	31687.4	100.0
0°-180°	31687.4	100.0



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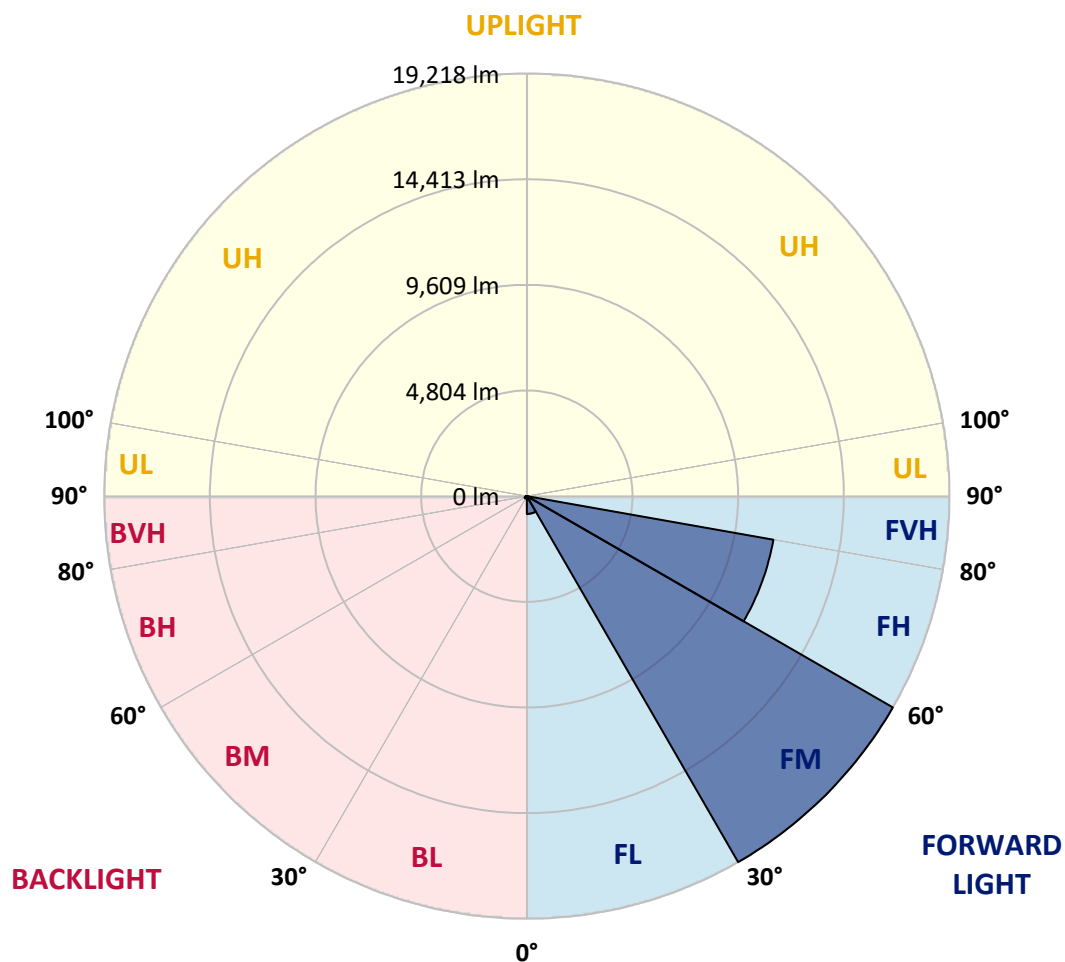
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.4	2.6			
FM	(30°-60°)	19217.7	60.6			
FH	(60°-80°)	11384.8	35.9			G4/12000
FVH	(80°-90°)	57.1	0.2			G1/100
BL	(0°-30°)	21.2	0.1	B0/110		
BM	(30°-60°)	118.4	0.4	B0/220		
BH	(60°-80°)	73.9	0.2	B0/110		G0/110
BVH	(80°-90°)	2.9	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°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8
2.5°	179.5	179.5	172.3	162.8	153.2	143.6	141.2	136.4	134.0	131.7
5°	186.7	186.7	184.3	177.1	167.6	160.4	160.4	153.2	148.4	143.6
7.5°	191.5	193.9	198.7	196.3	191.5	184.3	184.3	179.5	172.3	160.4
10°	198.7	205.9	215.4	220.2	222.6	222.6	220.2	217.8	205.9	189.1
12.5°	205.9	220.2	244.2	268.1	282.5	301.6	299.2	294.4	263.3	227.4
15°	220.2	241.8	292.0	361.5	469.2	536.2	562.5	538.6	435.7	306.4
17.5°	237.0	272.9	423.7	756.4	1239.9	1469.7	1608.6	1496.1	991.0	581.7
20°	253.7	332.7	787.5	1960.5	3217.2	3968.8	4177.0	3851.5	2472.7	1108.3
22.5°	282.5	466.8	1596.6	4052.6	6932.2	8059.6	8272.7	7231.4	4670.1	2187.9
25°	342.3	677.4	2752.8	6604.3	10345.6	12248.6	12160.1	10795.6	7576.1	3494.8
27.5°	428.5	986.2	4162.7	9383.4	13615.4	15293.4	15494.5	13806.9	10099.1	5139.3
30°	552.9	1366.8	5675.5	11609.5	16236.6	18051.0	18084.5	16339.5	12356.4	6582.7
32.5°	672.6	1725.9	6999.2	13761.5	18819.4	20808.6	20957.0	18809.8	14041.5	8086.0
35°	763.6	1960.5	8339.7	15652.5	21423.7	24164.5	24155.0	21605.7	16037.9	9428.8
37.5°	770.8	2195.0	9553.3	17586.6	24722.3	27791.0	28095.0	25284.8	18450.7	11090.1
40°	754.0	2458.3	11090.1	20602.7	30665.9	35374.3	35642.4	32099.7	23290.8	13933.8
42.5°	773.2	2915.5	13584.3	26172.9	40535.2	47297.4	47814.4	44089.8	32188.3	19736.2
45°	873.7	3774.9	18809.8	35491.6	54603.0	62847.0	62674.6	57310.3	42541.1	28569.0
47.5°	1206.4	5879.0	26555.9	44561.4	63593.8	70935.3	71083.7	64527.3	48582.8	35359.9
50°	1855.1	8995.6	33064.4	49356.0	67459.6	74825.1	74686.3	67110.2	50878.4	38704.0
52.5°	2412.9	11250.5	36329.4	51038.8	67955.1	76747.3	76737.7	67790.0	51235.1	38991.2
55°	2551.7	11420.4	36355.7	51129.7	69065.8	79263.0	79579.0	69463.2	51697.0	37736.9
57.5°	2496.6	10111.0	34838.1	51656.3	71043.0	81209.1	81225.9	71083.7	52870.0	36968.5
58°	2448.8	9905.2	34531.7	51955.6	71382.9	81290.5	81249.8	71157.9	53825.1	36939.8
60°	2180.7	8600.6	33337.3	52719.2	70877.9	79619.7	79239.1	69537.4	53683.8	36645.4
62.5°	1713.9	6709.6	32161.9	51835.9	65463.3	71531.4	71689.3	61563.9	48939.5	34929.1
65°	1364.4	5000.5	29710.8	45468.6	53906.4	58741.7	59330.6	50062.1	40848.7	29576.7
67.5°	1086.7	3614.5	24923.3	36200.1	42656.0	49025.7	49454.1	42031.2	31647.3	22661.3
70°	883.3	2444.0	17203.6	26474.5	35182.8	42344.8	42371.1	34917.1	23621.2	14848.2
72.5°	782.7	1692.4	9986.6	19307.7	28528.3	34505.4	33808.8	28334.4	18153.9	8794.5
75°	677.4	1122.7	4897.5	11803.4	17297.0	17414.3	17680.0	13143.9	9074.6	4181.8
77.5°	557.7	797.1	1929.3	3224.3	5187.2	6640.2	6886.7	5218.3	3018.5	1029.3
80°	383.0	378.2	519.4	988.6	1484.1	1859.9	1735.4	1342.9	789.9	395.0
82.5°	165.2	179.5	234.6	282.5	229.8	222.6	213.0	136.4	105.3	81.4
85°	52.7	47.9	50.3	50.3	40.7	31.1	31.1	14.4	0.0	0.0
87.5°	26.3	21.5	21.5	19.1	12.0	4.8	2.4	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°
138.8	0°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8
129.3	2.5°	126.9	126.9	122.1	117.3	114.9	110.1	107.7	105.3	102.9	100.5
138.8	5°	134.0	131.7	124.5	117.3	110.1	102.9	98.1	93.4	88.6	86.2
153.2	7.5°	146.0	141.2	126.9	114.9	105.3	95.7	91.0	83.8	79.0	71.8
170.0	10°	160.4	150.8	131.7	117.3	102.9	91.0	83.8	76.6	69.4	59.8
193.9	12.5°	179.5	162.8	138.8	114.9	98.1	83.8	76.6	67.0	59.8	52.7
225.0	15°	196.3	174.7	141.2	114.9	93.4	76.6	67.0	57.4	50.3	40.7
282.5	17.5°	220.2	184.3	138.8	107.7	86.2	67.0	57.4	50.3	38.3	23.9
418.9	20°	260.9	191.5	134.0	100.5	74.2	55.1	43.1	33.5	16.8	4.8
629.5	22.5°	325.5	210.6	129.3	91.0	64.6	43.1	28.7	12.0	0.0	0.0
957.5	25°	450.0	244.2	129.3	86.2	57.4	31.1	9.6	0.0	0.0	0.0
1359.6	27.5°	598.4	289.6	129.3	74.2	45.5	16.8	0.0	0.0	0.0	0.0
1852.7	30°	749.2	339.9	129.3	64.6	35.9	2.4	0.0	0.0	0.0	0.0
2281.2	32.5°	892.9	383.0	131.7	55.1	23.9	0.0	0.0	0.0	0.0	0.0
2874.9	35°	1038.9	390.2	129.3	47.9	14.4	0.0	0.0	0.0	0.0	0.0
3602.5	37.5°	1225.6	375.8	122.1	43.1	7.2	0.0	0.0	0.0	0.0	0.0
4739.6	40°	1508.0	383.0	114.9	40.7	2.4	0.0	0.0	0.0	0.0	0.0
6767.0	42.5°	2029.9	414.1	105.3	40.7	0.0	0.0	0.0	0.0	0.0	0.0
10778.9	45°	3509.2	555.3	95.7	43.1	0.0	0.0	0.0	0.0	0.0	0.0
16181.5	47.5°	5804.8	998.2	93.4	43.1	0.0	0.0	0.0	0.0	0.0	0.0
19492.0	50°	7408.5	1256.7	98.1	45.5	0.0	0.0	0.0	0.0	0.0	0.0
19906.1	52.5°	7396.6	1400.3	102.9	47.9	9.6	0.0	0.0	0.0	0.0	0.0
18347.8	55°	6575.5	1426.7	110.1	52.7	31.1	0.0	0.0	0.0	0.0	0.0
15767.4	57.5°	5496.0	1302.2	126.9	64.6	57.4	0.0	0.0	0.0	0.0	0.0
15362.9	58°	5304.5	1244.7	131.7	67.0	62.2	0.0	0.0	0.0	0.0	0.0
13325.8	60°	4347.0	1014.9	167.6	83.8	83.8	0.0	0.0	0.0	0.0	0.0
10924.9	62.5°	3001.7	885.7	191.5	107.7	86.2	0.0	0.0	0.0	0.0	0.0
8054.8	65°	2123.2	799.5	208.3	114.9	69.4	0.0	0.0	0.0	0.0	0.0
5723.4	67.5°	1587.0	737.3	229.8	117.3	35.9	0.0	0.0	0.0	0.0	0.0
3590.6	70°	1216.0	691.8	282.5	124.5	9.6	0.0	0.0	0.0	0.0	0.0
2140.0	72.5°	991.0	639.1	342.3	129.3	0.0	0.0	0.0	0.0	0.0	0.0
1283.0	75°	821.0	576.9	330.3	141.2	0.0	0.0	0.0	0.0	0.0	0.0
684.6	77.5°	545.8	447.6	301.6	141.2	0.0	0.0	0.0	0.0	0.0	0.0
244.2	80°	191.5	177.1	234.6	124.5	0.0	0.0	0.0	0.0	0.0	0.0
50.3	82.5°	28.7	23.9	33.5	43.1	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°
138.8	0°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8
98.1	2.5°	98.1	98.1	95.7	98.1	98.1	102.9	114.9	131.7	150.8	158.0
83.8	5°	81.4	79.0	76.6	76.6	76.6	83.8	93.4	112.5	134.0	143.6
69.4	7.5°	67.0	64.6	62.2	59.8	59.8	64.6	76.6	98.1	119.7	129.3
57.4	10°	55.1	50.3	47.9	45.5	45.5	50.3	62.2	83.8	107.7	117.3
47.9	12.5°	45.5	38.3	33.5	31.1	28.7	35.9	47.9	67.0	93.4	105.3
35.9	15°	31.1	23.9	16.8	14.4	12.0	19.1	31.1	52.7	79.0	93.4
19.1	17.5°	16.8	7.2	2.4	0.0	0.0	4.8	14.4	38.3	64.6	76.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1	47.9	59.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	28.7	40.7
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	21.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
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	7.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	19.1
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°
138.8	0°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8
165.2	2.5°	170.0	167.6	162.8	158.0	158.0	158.0	165.2	172.3	179.5	179.5
148.4	5°	158.0	158.0	155.6	150.8	150.8	153.2	162.8	174.7	184.3	186.7
136.4	7.5°	146.0	150.8	146.0	143.6	146.0	148.4	158.0	172.3	186.7	191.5
126.9	10°	138.8	141.2	141.2	138.8	138.8	143.6	153.2	172.3	191.5	198.7
114.9	12.5°	129.3	134.0	131.7	131.7	131.7	136.4	148.4	170.0	196.3	205.9
102.9	15°	119.7	126.9	126.9	124.5	124.5	126.9	143.6	167.6	203.5	220.2
88.6	17.5°	110.1	117.3	119.7	114.9	114.9	119.7	136.4	167.6	208.3	237.0
71.8	20°	91.0	102.9	110.1	102.9	102.9	107.7	124.5	158.0	210.6	253.7
52.7	22.5°	71.8	83.8	93.4	91.0	91.0	93.4	114.9	150.8	213.0	282.5
31.1	25°	52.7	64.6	71.8	76.6	76.6	83.8	105.3	146.0	222.6	342.3
14.4	27.5°	31.1	45.5	55.1	59.8	62.2	71.8	98.1	141.2	239.4	428.5
0.0	30°	14.4	26.3	38.3	47.9	47.9	64.6	91.0	136.4	260.9	552.9
0.0	32.5°	0.0	12.0	19.1	33.5	35.9	52.7	83.8	131.7	292.0	672.6
0.0	35°	0.0	0.0	9.6	26.3	26.3	43.1	76.6	126.9	339.9	763.6
0.0	37.5°	0.0	0.0	0.0	19.1	21.5	38.3	74.2	124.5	349.5	770.8
0.0	40°	0.0	0.0	0.0	14.4	16.8	35.9	74.2	126.9	316.0	754.0
0.0	42.5°	0.0	0.0	0.0	9.6	12.0	35.9	74.2	131.7	284.9	773.2
0.0	45°	0.0	0.0	0.0	7.2	9.6	38.3	71.8	129.3	268.1	873.7
0.0	47.5°	0.0	0.0	0.0	9.6	14.4	38.3	69.4	126.9	270.5	1206.4
0.0	50°	0.0	0.0	0.0	12.0	16.8	38.3	71.8	122.1	296.8	1855.1
0.0	52.5°	0.0	0.0	0.0	9.6	14.4	43.1	79.0	119.7	323.2	2412.9
0.0	55°	0.0	0.0	0.0	2.4	7.2	55.1	86.2	119.7	363.8	2551.7
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	62.2	98.1	126.9	430.9	2496.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	62.2	100.5	126.9	435.7	2448.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	62.2	110.1	141.2	469.2	2180.7
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	52.7	131.7	177.1	488.3	1713.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	43.1	155.6	193.9	502.7	1364.4
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	40.7	160.4	196.3	509.9	1086.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	43.1	158.0	210.6	533.8	883.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	47.9	143.6	232.2	533.8	782.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	50.3	134.0	260.9	485.9	677.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	47.9	131.7	304.0	433.3	557.7
0.0	80°	4.8	7.2	7.2	4.8	4.8	40.7	129.3	308.8	368.6	383.0
2.4	82.5°	14.4	19.1	16.8	12.0	12.0	35.9	114.9	258.5	191.5	165.2
14.4	85°	26.3	31.1	31.1	26.3	26.3	33.5	71.8	93.4	64.6	52.7
26.3	87.5°	35.9	40.7	40.7	35.9	35.9	33.5	31.1	28.7	26.3	26.3
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: SP1-2407-184-9

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-830-U-5WQ

Data in this report applies to families of products including GSS-SB1A-830-U-5WQ

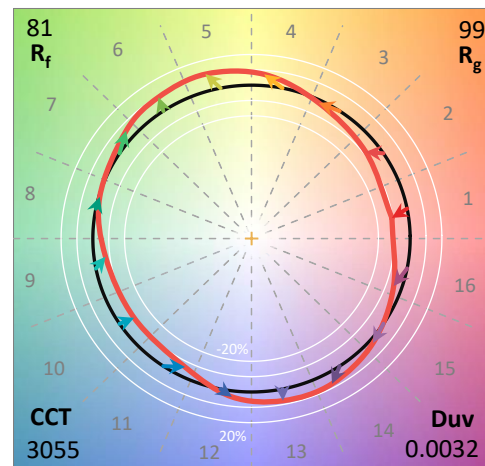
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-9
 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-830-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3055
 CIE u' : 0.2475
 CIE v' : 0.5247
 Duv: 0.0032
 CIE x: 0.4377
 CIE y: 0.4124
 CIE z: 0.1499
 Peak Wavelength (nm): 604
 Dominant Wavelength (nm): 581
 Purity: 55.16339
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 80.9
 R1: 79.5
 R2: 85.6
 R3: 92.1
 R4: 82.4
 R5: 78.9
 R6: 81.7
 R7: 85.1
 R8: 61.9
 R9: 6.8
 R10: 67.1
 R11: 82.5
 R12: 63.4
 R13: 80.2
 R14: 95.1
 R15: 71.7



Test Conditions

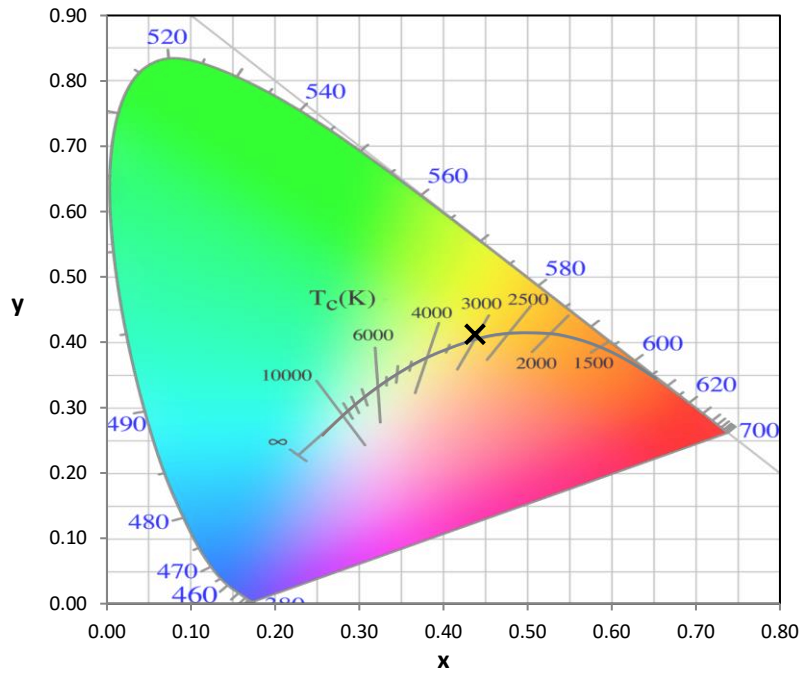
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-9

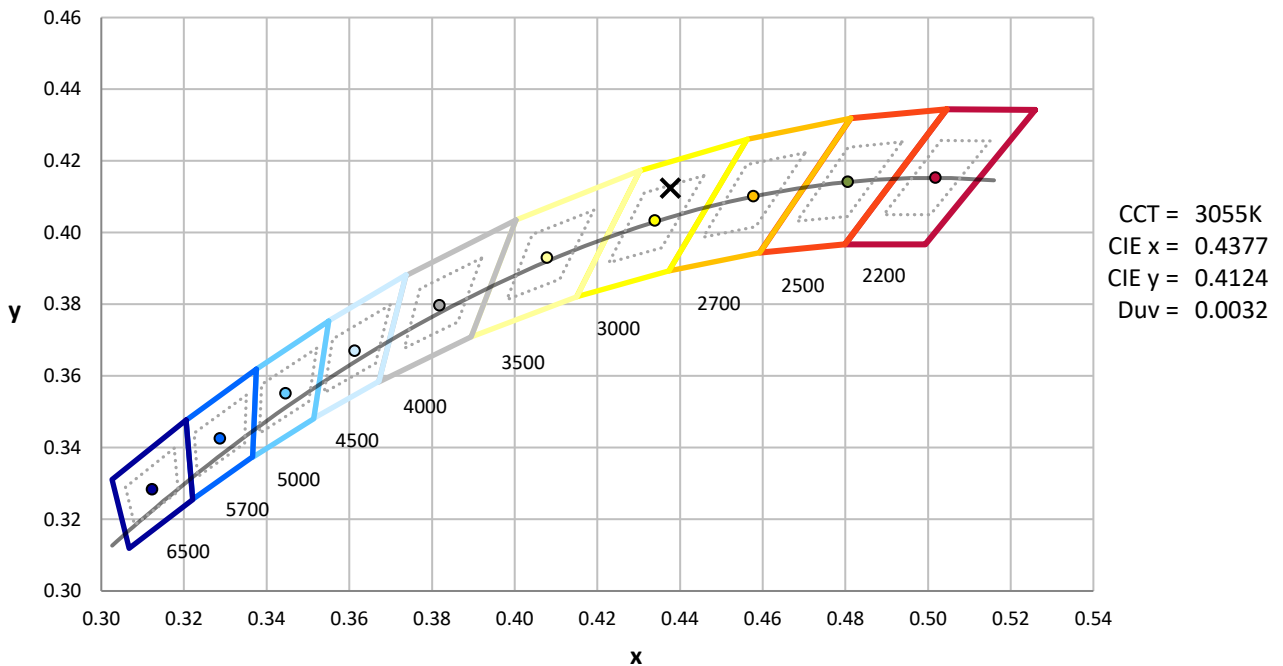
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



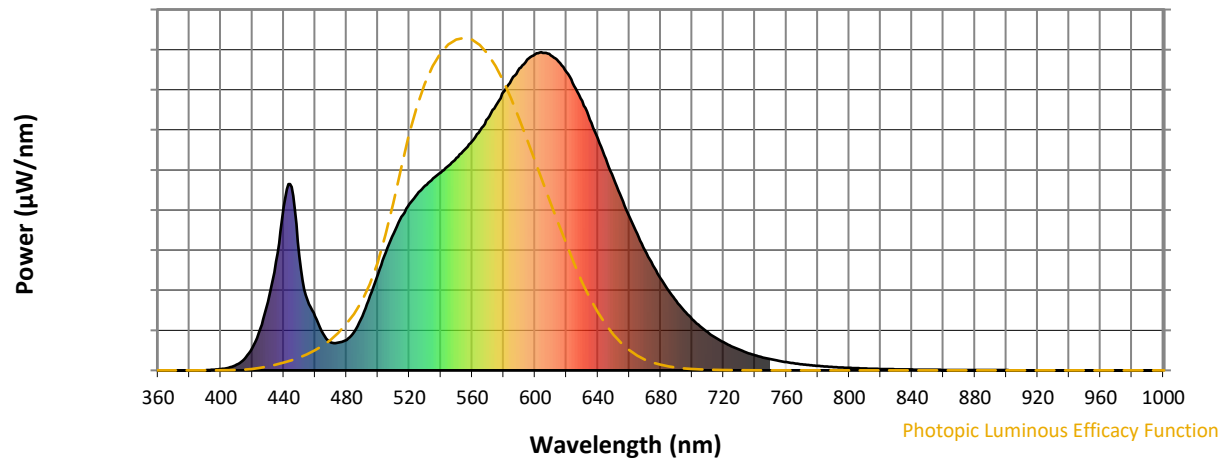
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-9

Photopic Flux vs. Wavelength

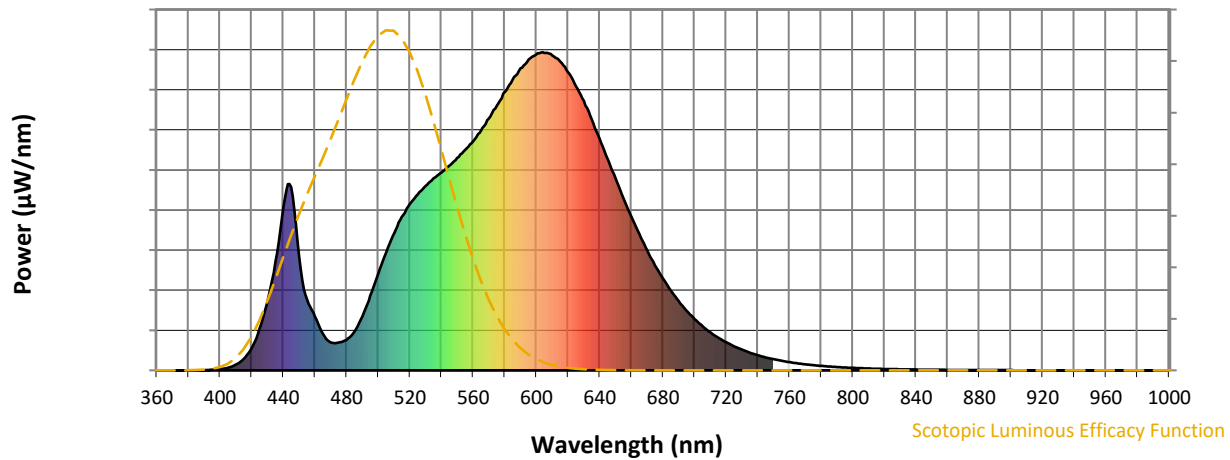


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

Scotopic Flux vs. Wavelength



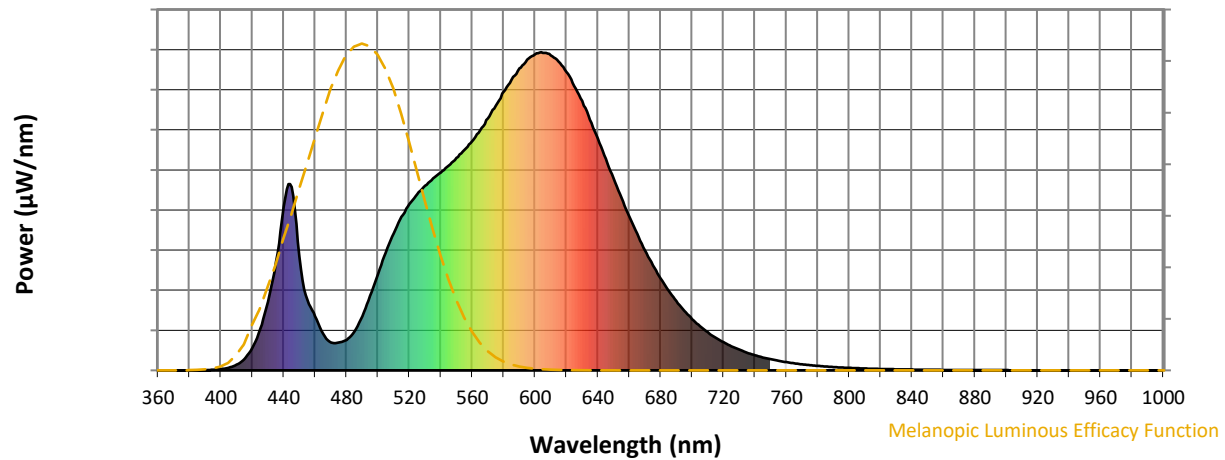
Scotopic Lumens: NR

S/P: 1.28

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	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.33

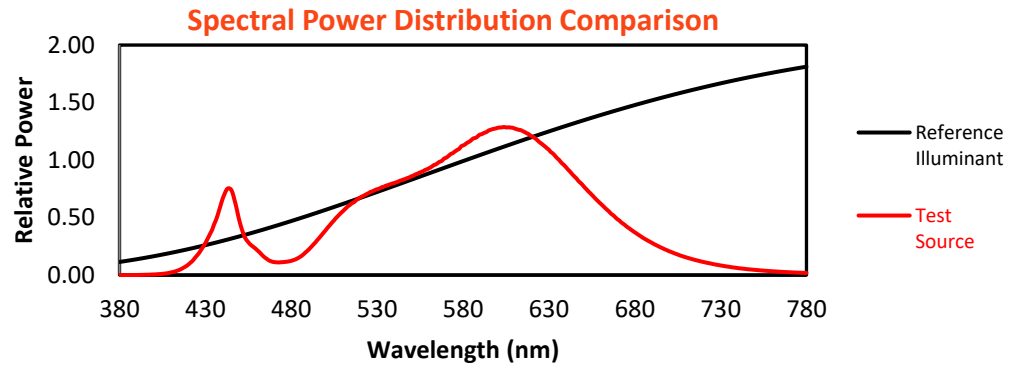
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	170	NR	620	938	NR	750	35	NR	880	1	NR
365	0	NR	495	234	NR	625	894	NR	755	30	NR	885	1	NR
370	0	NR	500	302	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	371	NR	635	788	NR	765	22	NR	895	1	NR
380	0	NR	510	431	NR	640	728	NR	770	19	NR	900	1	NR
385	0	NR	515	482	NR	645	665	NR	775	16	NR	905	1	NR
390	0	NR	520	523	NR	650	603	NR	780	14	NR	910	0	NR
395	2	NR	525	553	NR	655	542	NR	785	12	NR	915	0	NR
400	4	NR	530	580	NR	660	484	NR	790	11	NR	920	0	NR
405	8	NR	535	603	NR	665	430	NR	795	9	NR	925	0	NR
410	18	NR	540	622	NR	670	377	NR	800	8	NR	930	0	NR
415	36	NR	545	644	NR	675	330	NR	805	7	NR	935	0	NR
420	71	NR	550	668	NR	680	289	NR	810	6	NR	940	0	NR
425	131	NR	555	693	NR	685	250	NR	815	5	NR	945	0	NR
430	215	NR	560	720	NR	690	218	NR	820	4	NR	950	0	NR
435	341	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	514	NR	570	792	NR	700	161	NR	830	3	NR	960	0	NR
445	576	NR	575	832	NR	705	139	NR	835	3	NR	965	0	NR
450	358	NR	580	875	NR	710	119	NR	840	3	NR	970	0	NR
455	222	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	170	NR	590	950	NR	720	88	NR	850	2	NR	980	0	NR
465	115	NR	595	977	NR	725	76	NR	855	2	NR	985	0	NR
470	88	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	87	NR	605	997	NR	735	56	NR	865	1	NR	995	0	NR
480	96	NR	610	990	NR	740	47	NR	870	1	NR	1000	0	NR
485	122	NR	615	971	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-9

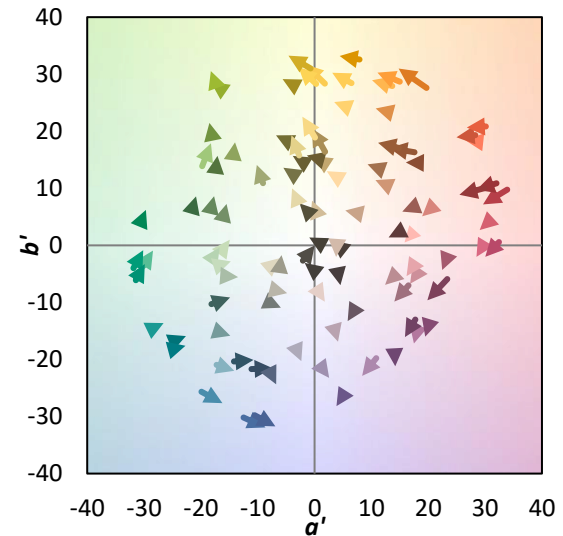
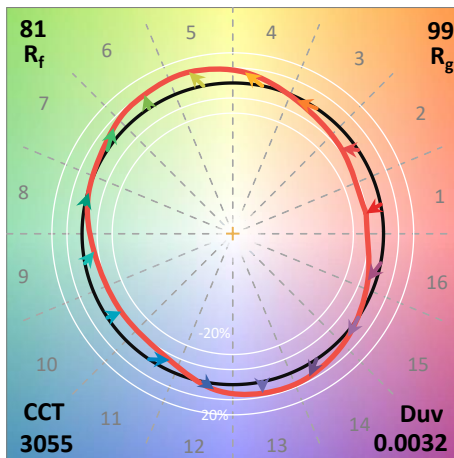
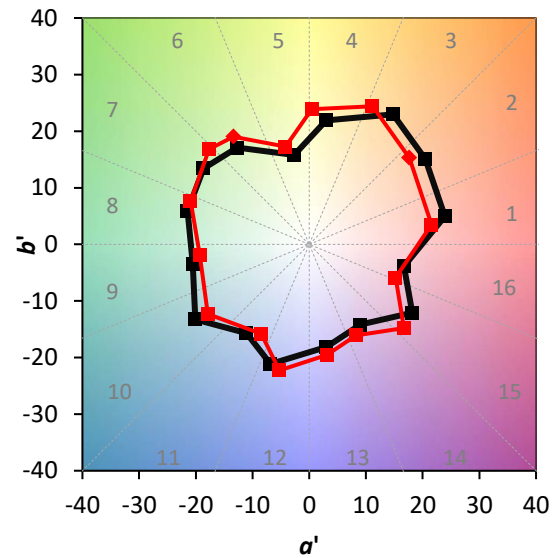
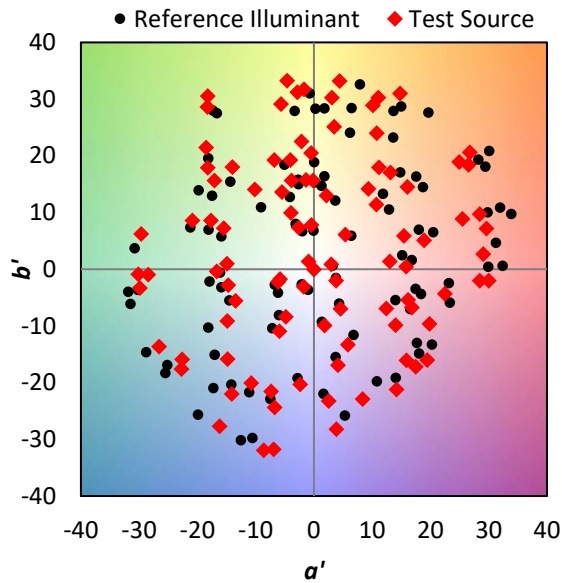
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 80.9$
 $R_g = 6.8$

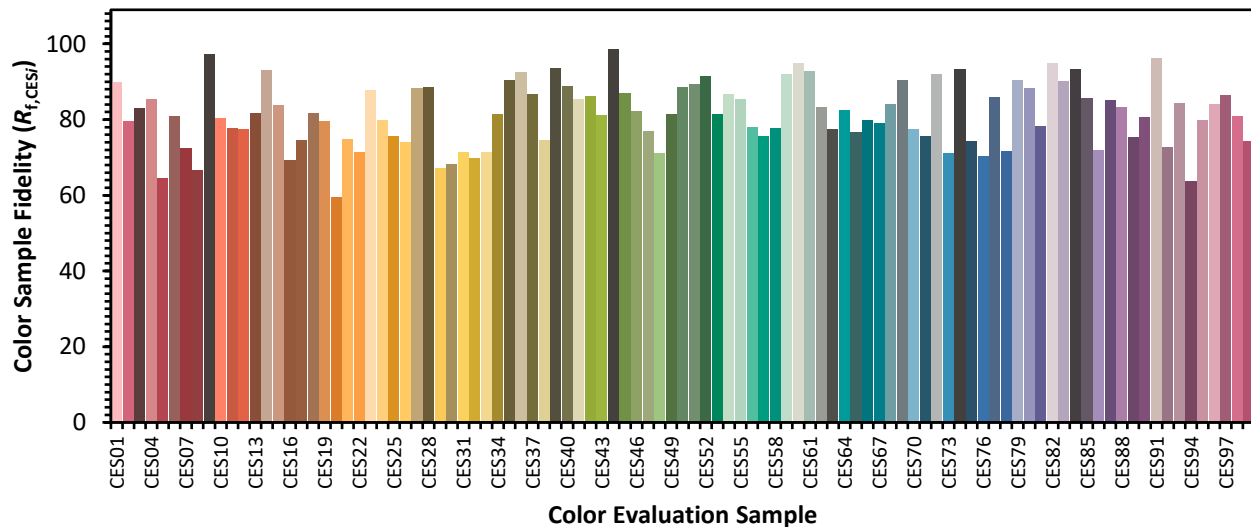


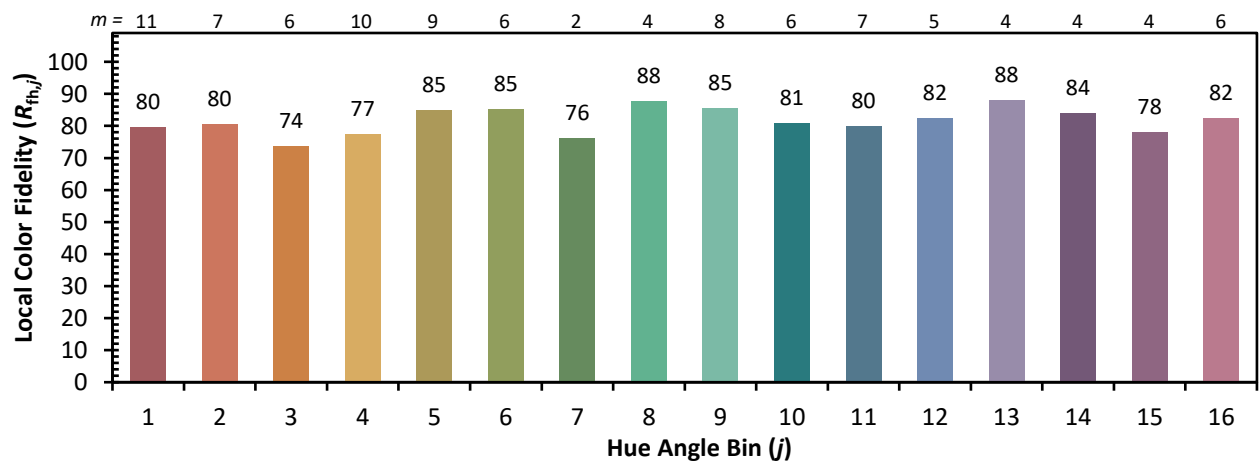
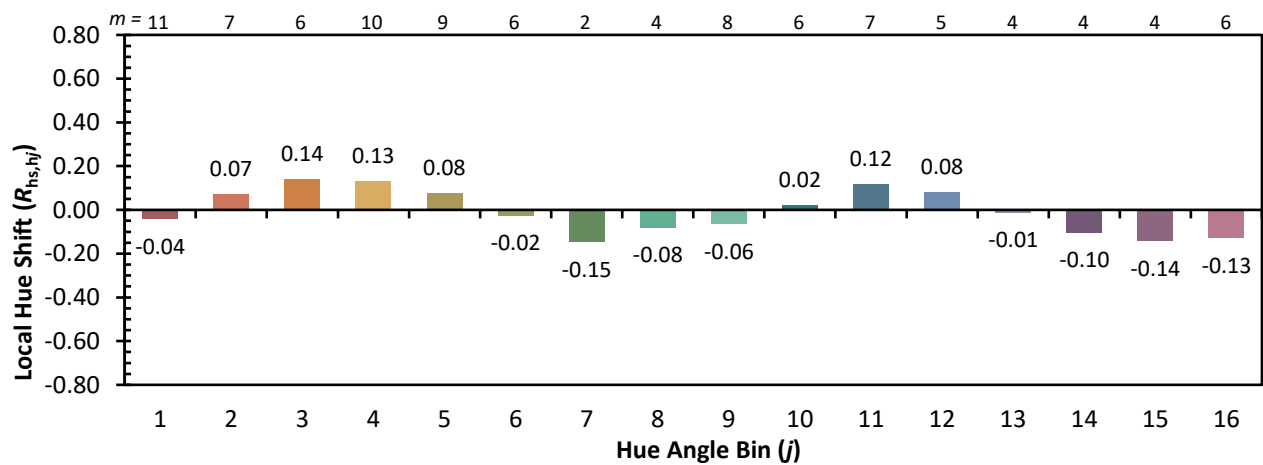
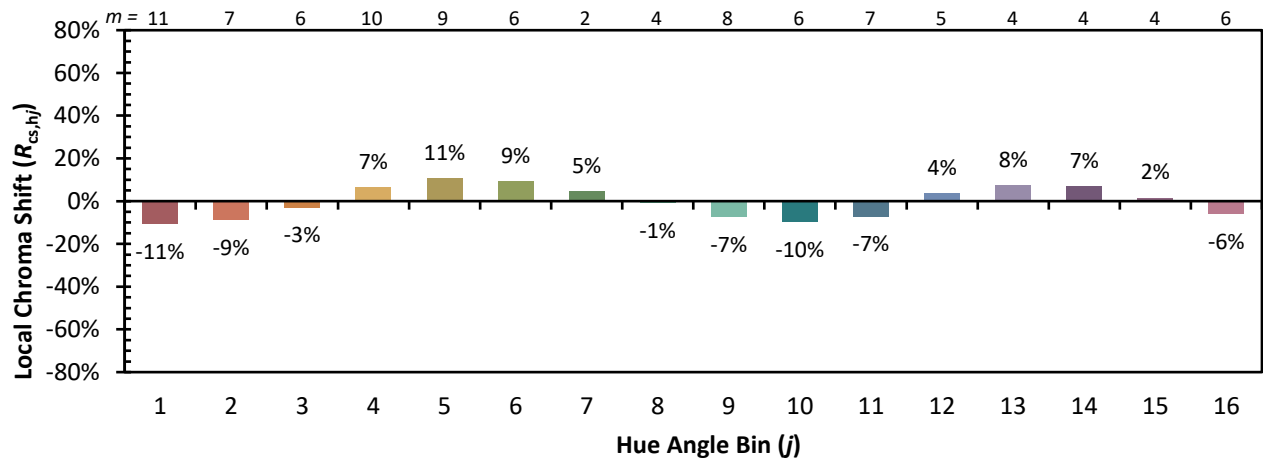
Color Vector Graphics



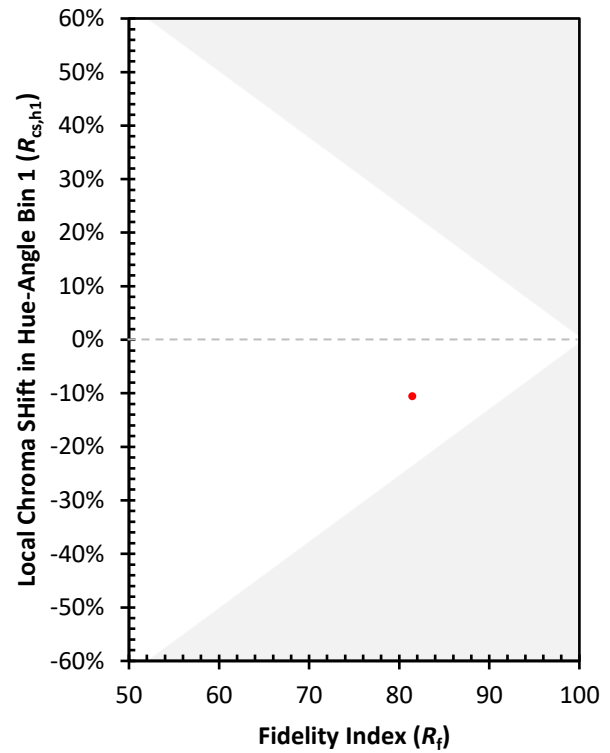
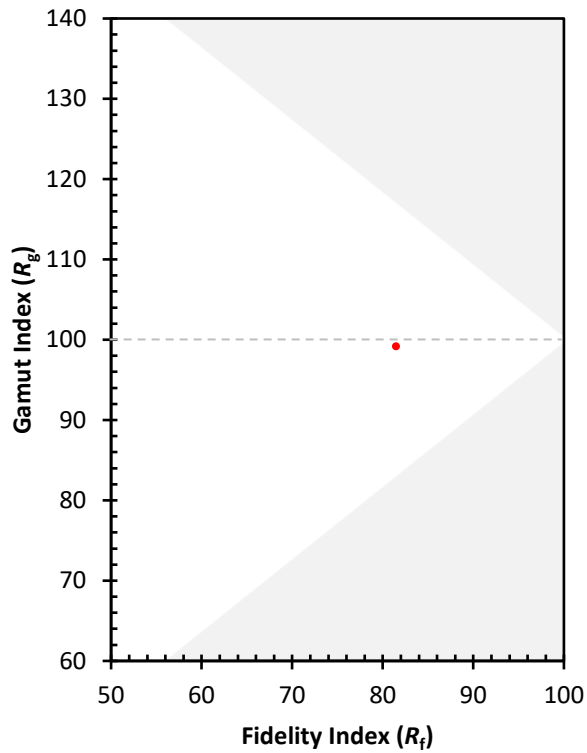
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 91	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 93
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 90	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 77	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)