

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: P1050055

Luminaire Tested: **GALN-SA5C-950-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050055
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 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: 19967.8 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

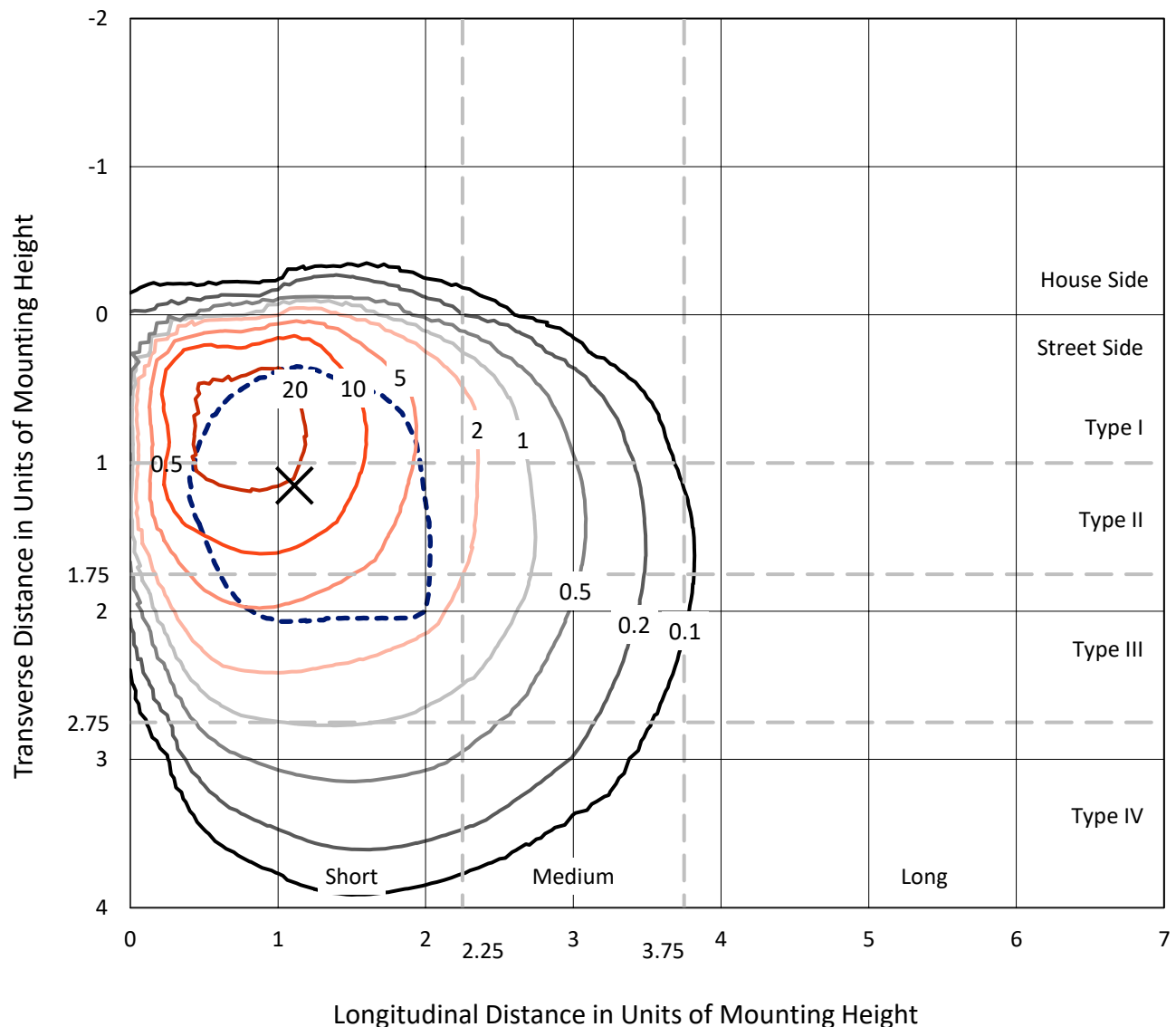
Input Watts (W): 236
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

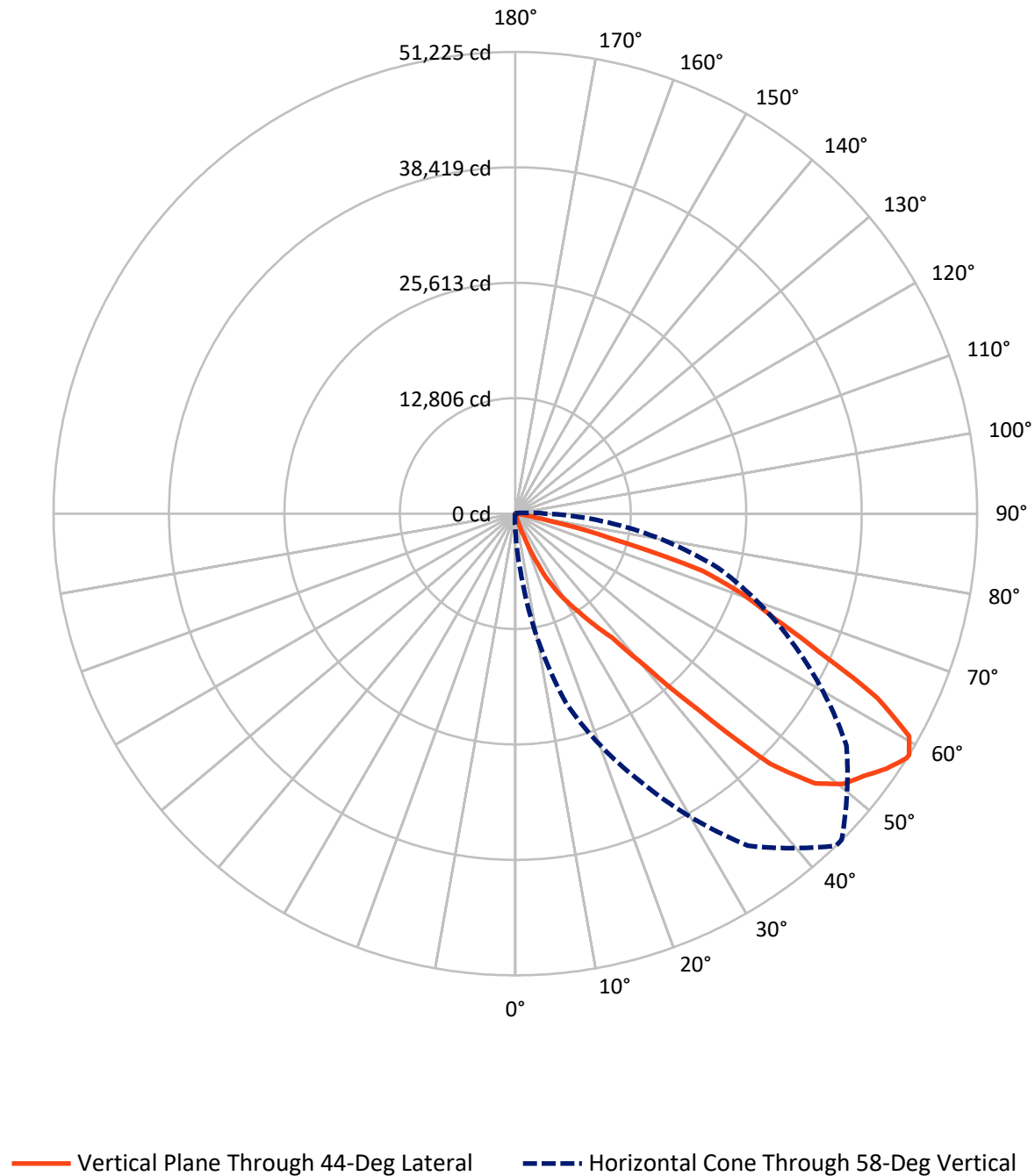
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.8 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	136.3	0.0	136.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	19831.5	0.0	19831.5
	% Fixture	99.3	0.0	99.3
Total	Lumens	19967.8	0.0	19967.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.0
10°-20°	43.8	0.2
20°-30°	473.0	2.4
30°-40°	1398.9	7.0
40°-50°	4169.6	20.9
50°-60°	6616.1	33.1
60°-70°	5518.6	27.6
70°-80°	1702.0	8.5
80°-90°	37.8	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°	19967.8	100.0
0°-180°	19967.8	100.0

Coefficient of Utilization



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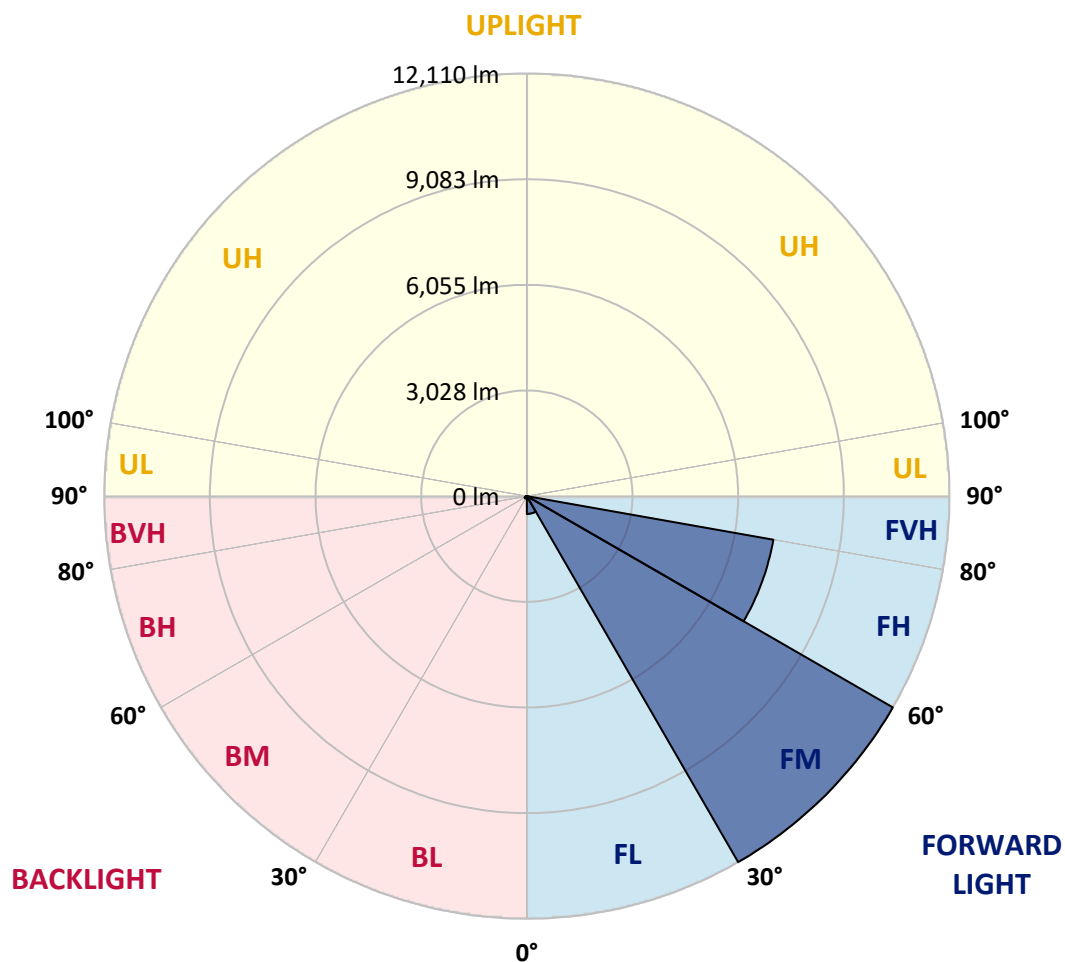
CATALOG NUMBER: GALN-SA5C-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.3	2.6			
FM	(30°-60°)	12110.1	60.6			
FH	(60°-80°)	7174.1	35.9			G3/7500
FVH	(80°-90°)	36.0	0.2			G1/100
BL	(0°-30°)	13.3	0.1	B0/110		
BM	(30°-60°)	74.6	0.4	B0/220		
BH	(60°-80°)	46.5	0.2	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	113.1	113.1	108.6	102.6	96.5	90.5	89.0	86.0	84.5	83.0
5°	117.7	117.7	116.1	111.6	105.6	101.1	101.1	96.5	93.5	90.5
7.5°	120.7	122.2	125.2	123.7	120.7	116.1	116.1	113.1	108.6	101.1
10°	125.2	129.7	135.8	138.8	140.3	140.3	138.8	137.3	129.7	119.2
12.5°	129.7	138.8	153.9	168.9	178.0	190.1	188.5	185.5	165.9	143.3
15°	138.8	152.3	184.0	227.8	295.6	337.9	354.5	339.4	274.5	193.1
17.5°	149.3	172.0	267.0	476.7	781.4	926.2	1013.6	942.7	624.5	366.5
20°	159.9	209.7	496.3	1235.4	2027.3	2500.9	2632.2	2427.0	1558.2	698.4
22.5°	178.0	294.1	1006.1	2553.7	4368.3	5078.8	5213.0	4556.9	2942.9	1378.7
25°	215.7	426.9	1734.7	4161.7	6519.3	7718.5	7662.7	6802.9	4774.1	2202.3
27.5°	270.0	621.5	2623.1	5912.9	8579.8	9637.2	9763.9	8700.4	6363.9	3238.5
30°	348.4	861.3	3576.4	7315.7	10231.5	11374.8	11395.9	10296.3	7786.3	4148.1
32.5°	423.9	1087.6	4410.6	8671.8	11859.0	13112.5	13206.0	11853.0	8848.3	5095.4
35°	481.2	1235.4	5255.3	9863.4	13500.2	15227.3	15221.2	13614.8	10106.3	5941.6
37.5°	485.7	1383.2	6020.0	11082.2	15578.7	17512.5	17704.1	15933.2	11626.7	6988.4
40°	475.1	1549.1	6988.4	12982.8	19324.1	22291.1	22460.0	20227.6	14676.7	8780.4
42.5°	487.2	1837.2	8560.2	16492.8	25543.2	29804.4	30130.2	27783.2	20283.4	12436.7
45°	550.6	2378.7	11853.0	22365.0	34408.1	39603.0	39494.4	36114.1	26807.2	18002.7
47.5°	760.2	3704.6	16734.2	28080.3	40073.6	44699.9	44793.4	40661.9	30614.4	22282.1
50°	1169.0	5668.6	20835.5	31101.7	42509.7	47151.0	47063.5	42289.4	32061.0	24389.3
52.5°	1520.5	7089.5	22893.0	32162.1	42821.9	48362.2	48356.2	42717.8	32285.7	24570.3
55°	1608.0	7196.6	22909.5	32219.4	43521.8	49947.6	50146.7	43772.2	32576.9	23779.9
57.5°	1573.3	6371.5	21953.2	32551.2	44767.7	51173.9	51184.5	44793.4	33316.0	23295.7
58°	1543.1	6241.7	21760.1	32739.8	44981.9	51225.2	51199.5	44840.1	33917.8	23277.6
60°	1374.2	5419.7	21007.5	33221.0	44663.7	50172.3	49932.5	43819.0	33828.8	23092.1
62.5°	1080.0	4228.0	20266.8	32664.4	41251.7	45075.4	45175.0	38794.5	30839.2	22010.5
65°	859.8	3151.0	18722.2	28652.0	33969.1	37016.1	37387.1	31546.6	25740.8	18637.8
67.5°	684.8	2277.7	15705.4	22811.5	26879.6	30893.5	31163.5	26486.0	19942.5	14280.0
70°	556.6	1540.1	10840.9	16682.9	22170.4	26683.6	26700.1	22003.0	14884.9	9356.6
72.5°	493.2	1066.4	6293.0	12166.7	17977.1	21743.6	21304.6	17854.9	11439.7	5541.9
75°	426.9	707.4	3086.2	7437.9	10899.7	10973.6	11141.0	8282.6	5718.3	2635.2
77.5°	351.5	502.3	1215.8	2031.8	3268.7	4184.3	4339.7	3288.3	1902.1	648.6
80°	241.3	238.3	327.3	623.0	935.2	1172.0	1093.6	846.2	497.8	248.9
82.5°	104.1	113.1	147.8	178.0	144.8	140.3	134.2	86.0	66.4	51.3
85°	33.2	30.2	31.7	31.7	25.6	19.6	19.6	9.1	0.0	0.0
87.5°	16.6	13.6	13.6	12.1	7.5	3.0	1.5	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°
87.5	0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
81.5	2.5°	79.9	79.9	76.9	73.9	72.4	69.4	67.9	66.4	64.9	63.4
87.5	5°	84.5	83.0	78.4	73.9	69.4	64.9	61.8	58.8	55.8	54.3
96.5	7.5°	92.0	89.0	79.9	72.4	66.4	60.3	57.3	52.8	49.8	45.3
107.1	10°	101.1	95.0	83.0	73.9	64.9	57.3	52.8	48.3	43.7	37.7
122.2	12.5°	113.1	102.6	87.5	72.4	61.8	52.8	48.3	42.2	37.7	33.2
141.8	15°	123.7	110.1	89.0	72.4	58.8	48.3	42.2	36.2	31.7	25.6
178.0	17.5°	138.8	116.1	87.5	67.9	54.3	42.2	36.2	31.7	24.1	15.1
264.0	20°	164.4	120.7	84.5	63.4	46.8	34.7	27.2	21.1	10.6	3.0
396.7	22.5°	205.1	132.7	81.5	57.3	40.7	27.2	18.1	7.5	0.0	0.0
603.4	25°	283.6	153.9	81.5	54.3	36.2	19.6	6.0	0.0	0.0	0.0
856.8	27.5°	377.1	182.5	81.5	46.8	28.7	10.6	0.0	0.0	0.0	0.0
1167.5	30°	472.1	214.2	81.5	40.7	22.6	1.5	0.0	0.0	0.0	0.0
1437.5	32.5°	562.6	241.3	83.0	34.7	15.1	0.0	0.0	0.0	0.0	0.0
1811.6	35°	654.6	245.9	81.5	30.2	9.1	0.0	0.0	0.0	0.0	0.0
2270.1	37.5°	772.3	236.8	76.9	27.2	4.5	0.0	0.0	0.0	0.0	0.0
2986.6	40°	950.3	241.3	72.4	25.6	1.5	0.0	0.0	0.0	0.0	0.0
4264.2	42.5°	1279.1	261.0	66.4	25.6	0.0	0.0	0.0	0.0	0.0	0.0
6792.3	45°	2211.3	349.9	60.3	27.2	0.0	0.0	0.0	0.0	0.0	0.0
10196.8	47.5°	3657.9	629.0	58.8	27.2	0.0	0.0	0.0	0.0	0.0	0.0
12282.9	50°	4668.5	791.9	61.8	28.7	0.0	0.0	0.0	0.0	0.0	0.0
12543.8	52.5°	4660.9	882.4	64.9	30.2	6.0	0.0	0.0	0.0	0.0	0.0
11561.9	55°	4143.6	899.0	69.4	33.2	19.6	0.0	0.0	0.0	0.0	0.0
9935.8	57.5°	3463.3	820.6	79.9	40.7	36.2	0.0	0.0	0.0	0.0	0.0
9680.9	58°	3342.6	784.4	83.0	42.2	39.2	0.0	0.0	0.0	0.0	0.0
8397.2	60°	2739.3	639.6	105.6	52.8	52.8	0.0	0.0	0.0	0.0	0.0
6884.3	62.5°	1891.5	558.1	120.7	67.9	54.3	0.0	0.0	0.0	0.0	0.0
5075.8	65°	1337.9	503.8	131.2	72.4	43.7	0.0	0.0	0.0	0.0	0.0
3606.6	67.5°	1000.1	464.6	144.8	73.9	22.6	0.0	0.0	0.0	0.0	0.0
2262.6	70°	766.3	435.9	178.0	78.4	6.0	0.0	0.0	0.0	0.0	0.0
1348.5	72.5°	624.5	402.7	215.7	81.5	0.0	0.0	0.0	0.0	0.0	0.0
808.5	75°	517.4	363.5	208.2	89.0	0.0	0.0	0.0	0.0	0.0	0.0
431.4	77.5°	343.9	282.1	190.1	89.0	0.0	0.0	0.0	0.0	0.0	0.0
153.9	80°	120.7	111.6	147.8	78.4	0.0	0.0	0.0	0.0	0.0	0.0
31.7	82.5°	18.1	15.1	21.1	27.2	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°
87.5	0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
61.8	2.5°	61.8	61.8	60.3	61.8	61.8	64.9	72.4	83.0	95.0	99.6
52.8	5°	51.3	49.8	48.3	48.3	48.3	52.8	58.8	70.9	84.5	90.5
43.7	7.5°	42.2	40.7	39.2	37.7	37.7	40.7	48.3	61.8	75.4	81.5
36.2	10°	34.7	31.7	30.2	28.7	28.7	31.7	39.2	52.8	67.9	73.9
30.2	12.5°	28.7	24.1	21.1	19.6	18.1	22.6	30.2	42.2	58.8	66.4
22.6	15°	19.6	15.1	10.6	9.1	7.5	12.1	19.6	33.2	49.8	58.8
12.1	17.5°	10.6	4.5	1.5	0.0	0.0	3.0	9.1	24.1	40.7	48.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	30.2	37.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	18.1	25.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	13.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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	4.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.1
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°
87.5	0°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
104.1	2.5°	107.1	105.6	102.6	99.6	99.6	99.6	104.1	108.6	113.1	113.1
93.5	5°	99.6	99.6	98.0	95.0	95.0	96.5	102.6	110.1	116.1	117.7
86.0	7.5°	92.0	95.0	92.0	90.5	92.0	93.5	99.6	108.6	117.7	120.7
79.9	10°	87.5	89.0	89.0	87.5	87.5	90.5	96.5	108.6	120.7	125.2
72.4	12.5°	81.5	84.5	83.0	83.0	83.0	86.0	93.5	107.1	123.7	129.7
64.9	15°	75.4	79.9	79.9	78.4	78.4	79.9	90.5	105.6	128.2	138.8
55.8	17.5°	69.4	73.9	75.4	72.4	72.4	75.4	86.0	105.6	131.2	149.3
45.3	20°	57.3	64.9	69.4	64.9	64.9	67.9	78.4	99.6	132.7	159.9
33.2	22.5°	45.3	52.8	58.8	57.3	57.3	58.8	72.4	95.0	134.2	178.0
19.6	25°	33.2	40.7	45.3	48.3	48.3	52.8	66.4	92.0	140.3	215.7
9.1	27.5°	19.6	28.7	34.7	37.7	39.2	45.3	61.8	89.0	150.8	270.0
0.0	30°	9.1	16.6	24.1	30.2	30.2	40.7	57.3	86.0	164.4	348.4
0.0	32.5°	0.0	7.5	12.1	21.1	22.6	33.2	52.8	83.0	184.0	423.9
0.0	35°	0.0	0.0	6.0	16.6	16.6	27.2	48.3	79.9	214.2	481.2
0.0	37.5°	0.0	0.0	0.0	12.1	13.6	24.1	46.8	78.4	220.2	485.7
0.0	40°	0.0	0.0	0.0	9.1	10.6	22.6	46.8	79.9	199.1	475.1
0.0	42.5°	0.0	0.0	0.0	6.0	7.5	22.6	46.8	83.0	179.5	487.2
0.0	45°	0.0	0.0	0.0	4.5	6.0	24.1	45.3	81.5	168.9	550.6
0.0	47.5°	0.0	0.0	0.0	6.0	9.1	24.1	43.7	79.9	170.4	760.2
0.0	50°	0.0	0.0	0.0	7.5	10.6	24.1	45.3	76.9	187.0	1169.0
0.0	52.5°	0.0	0.0	0.0	6.0	9.1	27.2	49.8	75.4	203.6	1520.5
0.0	55°	0.0	0.0	0.0	1.5	4.5	34.7	54.3	75.4	229.3	1608.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	39.2	61.8	79.9	271.5	1573.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	39.2	63.4	79.9	274.5	1543.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	39.2	69.4	89.0	295.6	1374.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	33.2	83.0	111.6	307.7	1080.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	27.2	98.0	122.2	316.8	859.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	25.6	101.1	123.7	321.3	684.8
0.0	70°	0.0	0.0	0.0	0.0	0.0	27.2	99.6	132.7	336.4	556.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	30.2	90.5	146.3	336.4	493.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	31.7	84.5	164.4	306.2	426.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	30.2	83.0	191.6	273.0	351.5
0.0	80°	3.0	4.5	4.5	3.0	3.0	25.6	81.5	194.6	232.3	241.3
1.5	82.5°	9.1	12.1	10.6	7.5	7.5	22.6	72.4	162.9	120.7	104.1
9.1	85°	16.6	19.6	19.6	16.6	16.6	21.1	45.3	58.8	40.7	33.2
16.6	87.5°	22.6	25.6	25.6	22.6	22.6	21.1	19.6	18.1	16.6	16.6
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

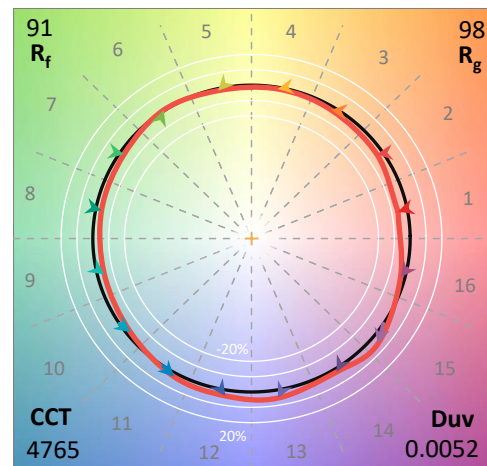
Test Information

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

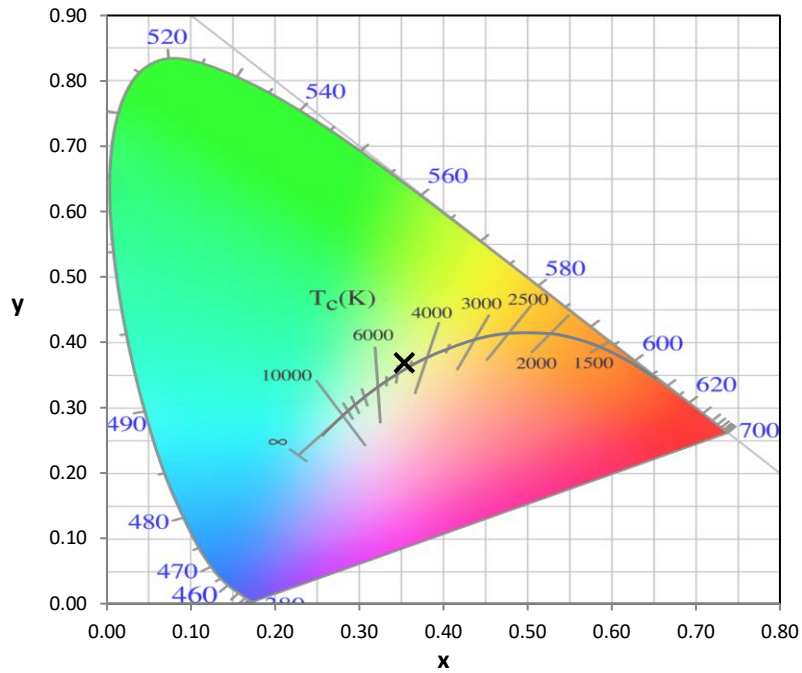
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

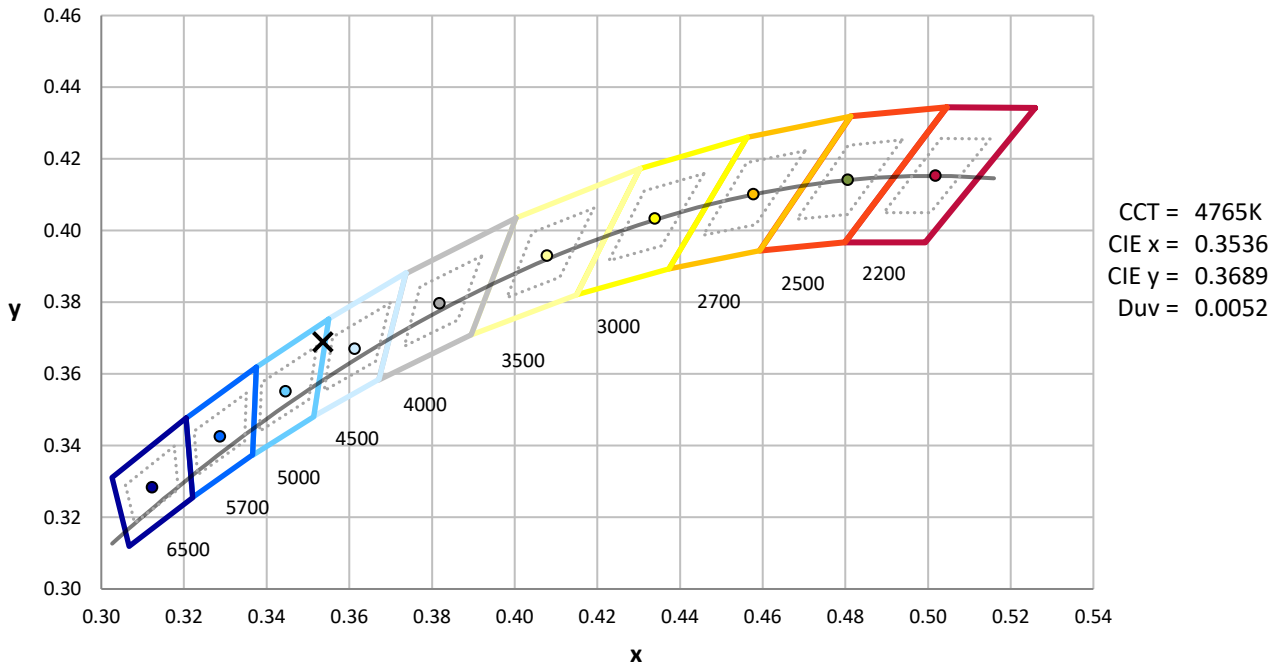
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



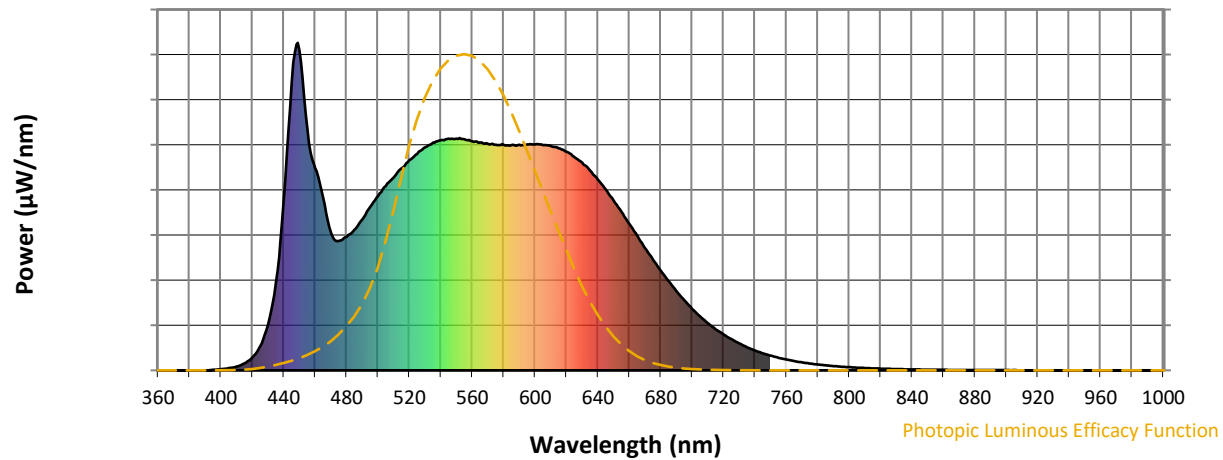
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

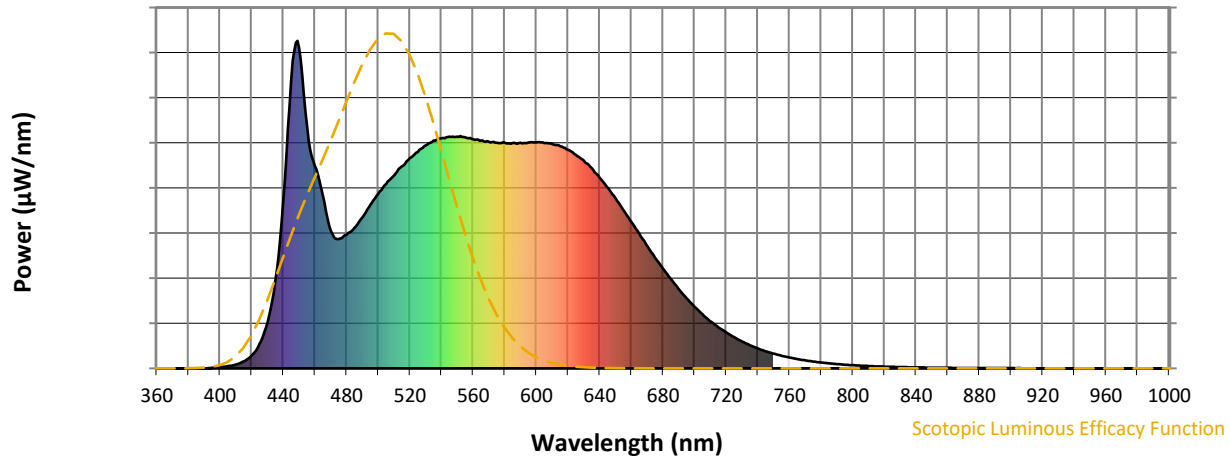


Photopic Lumens: NR

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



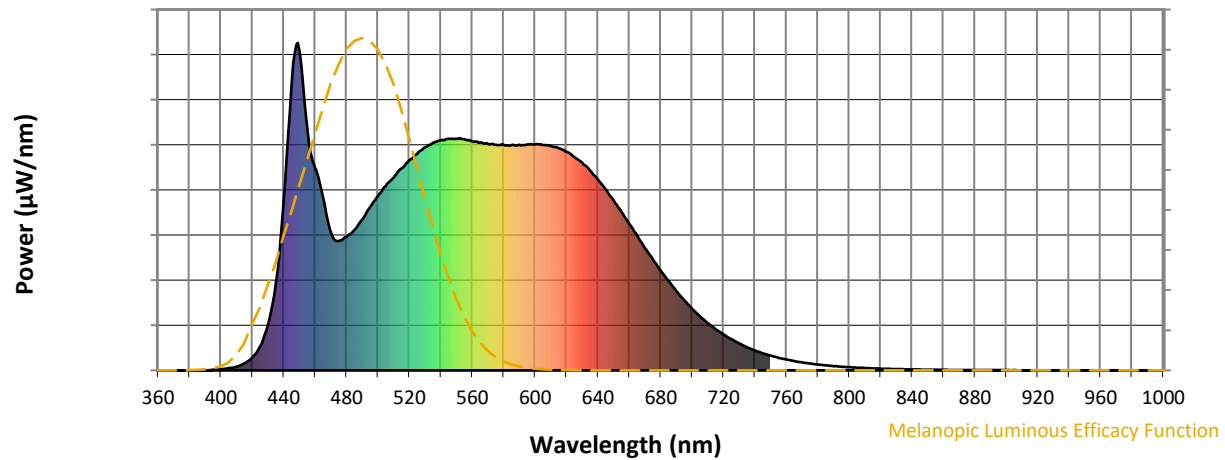
Scotopic Lumens: NR

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

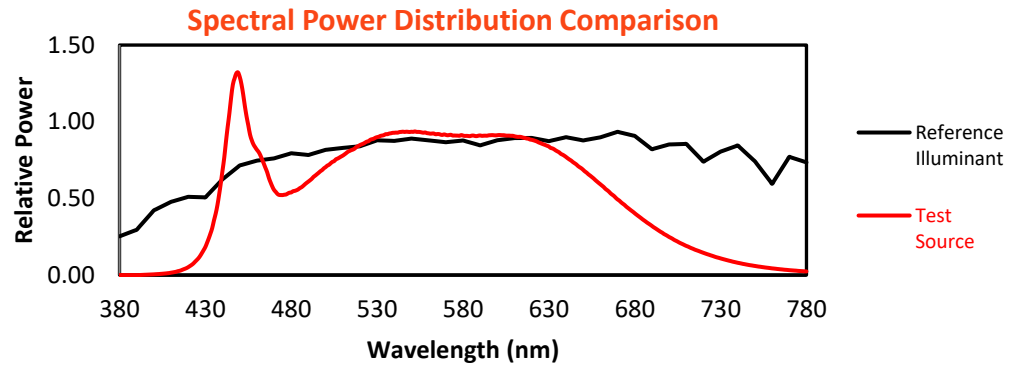
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462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

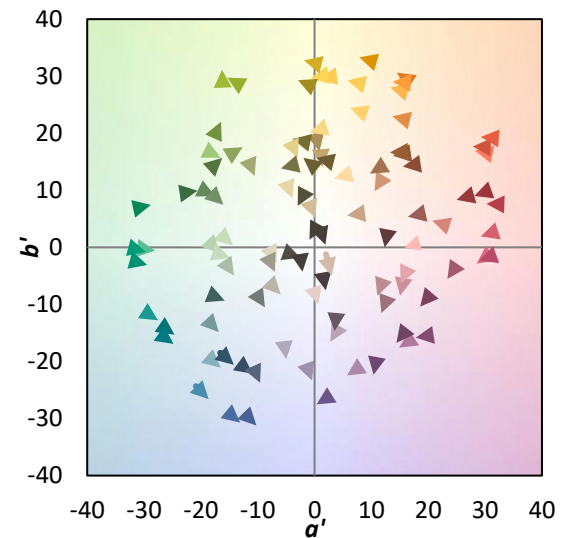
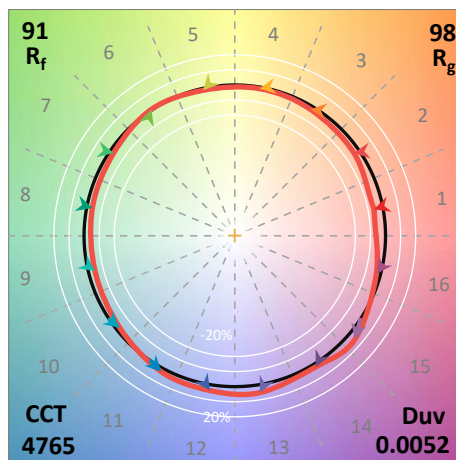
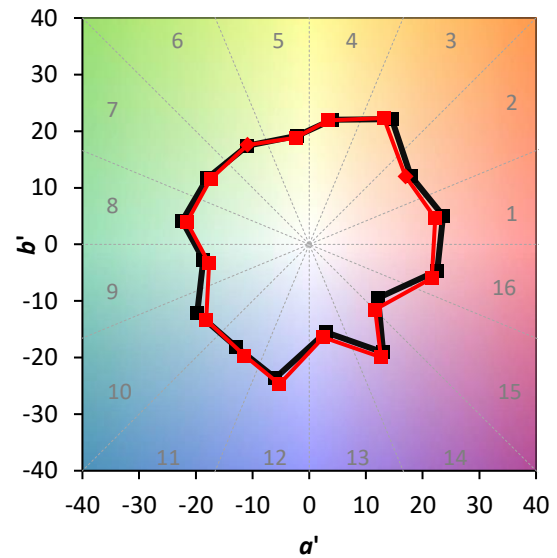
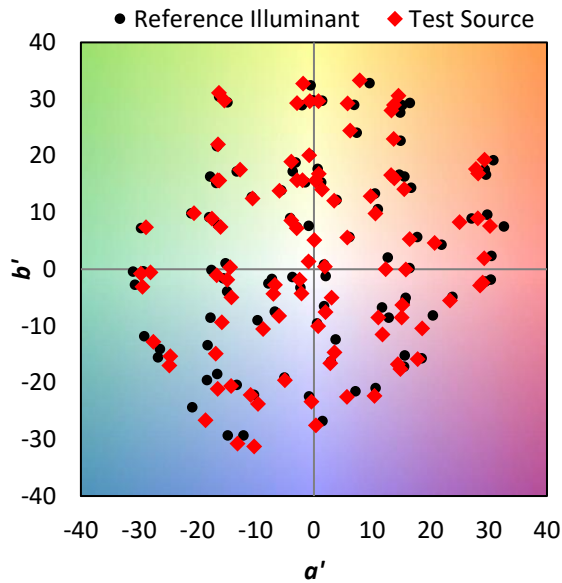
TM-30-18

Summary

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

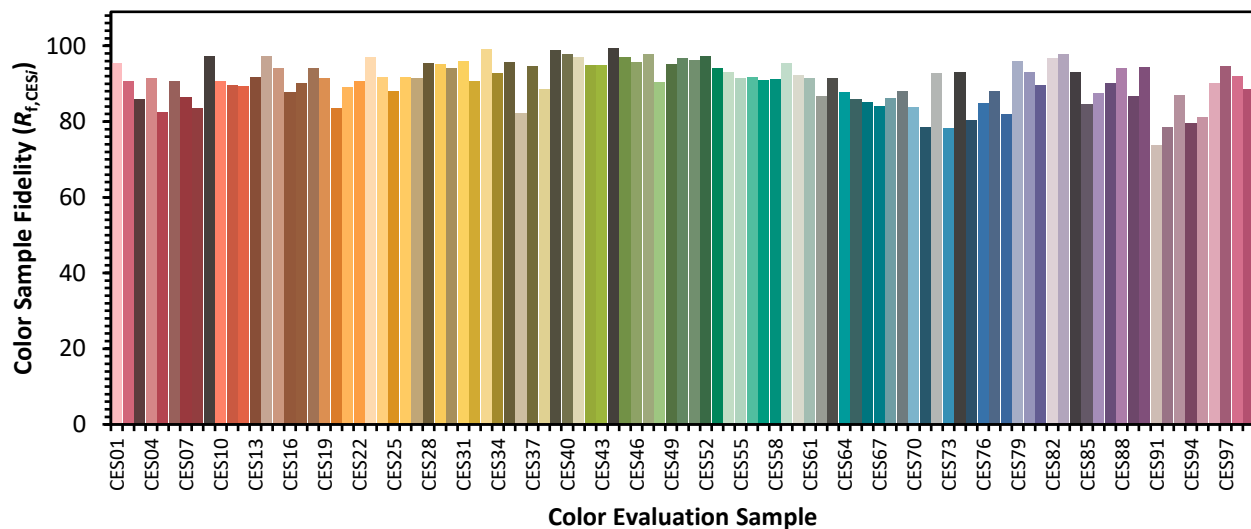


Color Vector Graphics

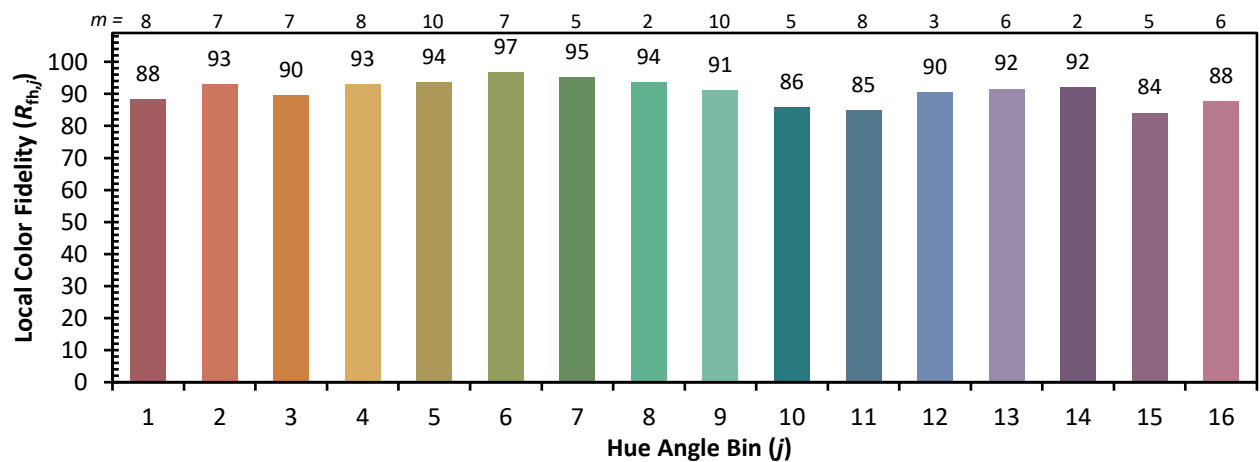
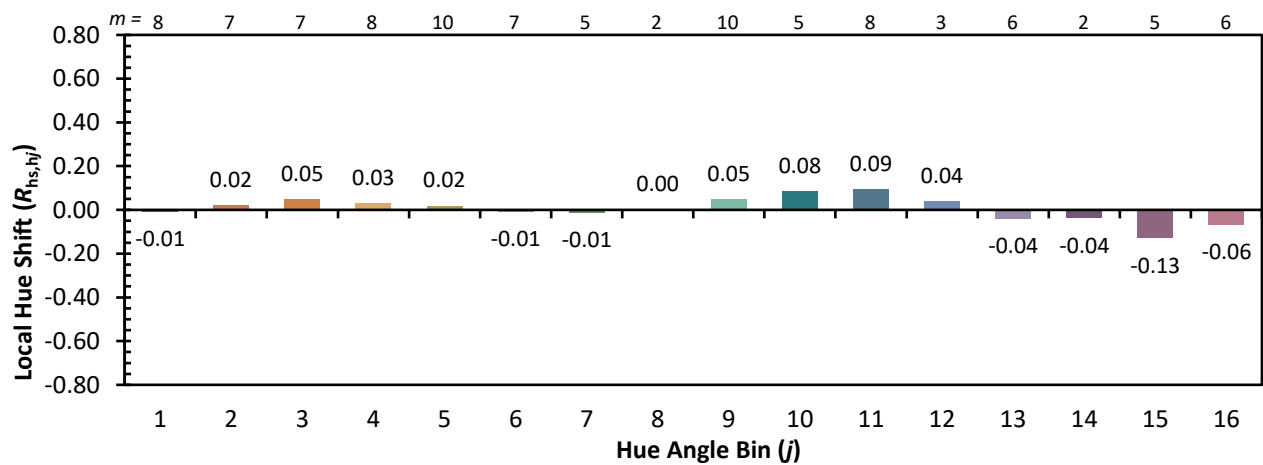
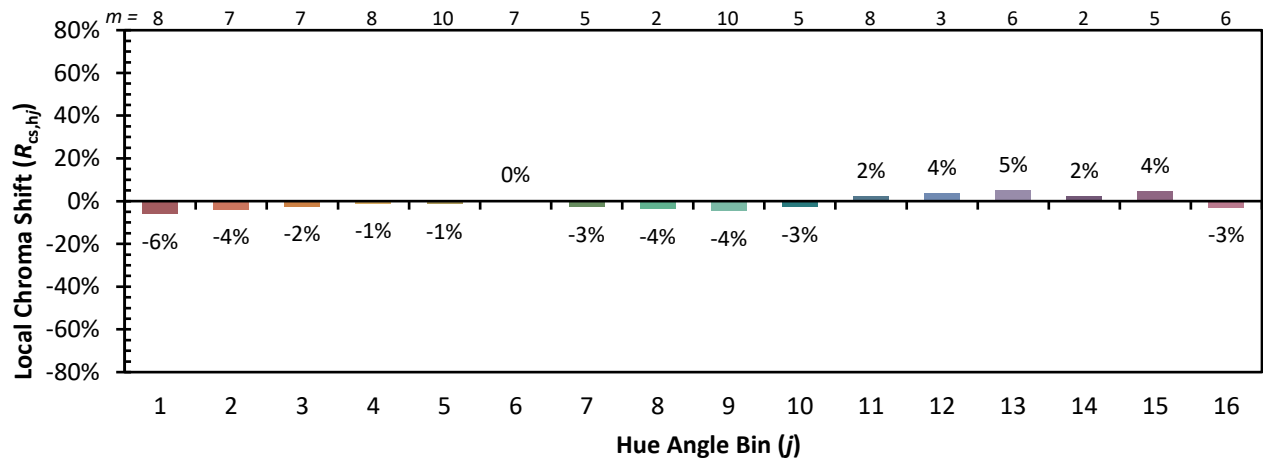


Individual Sample Fidelity Index ($R_{f,i}$)

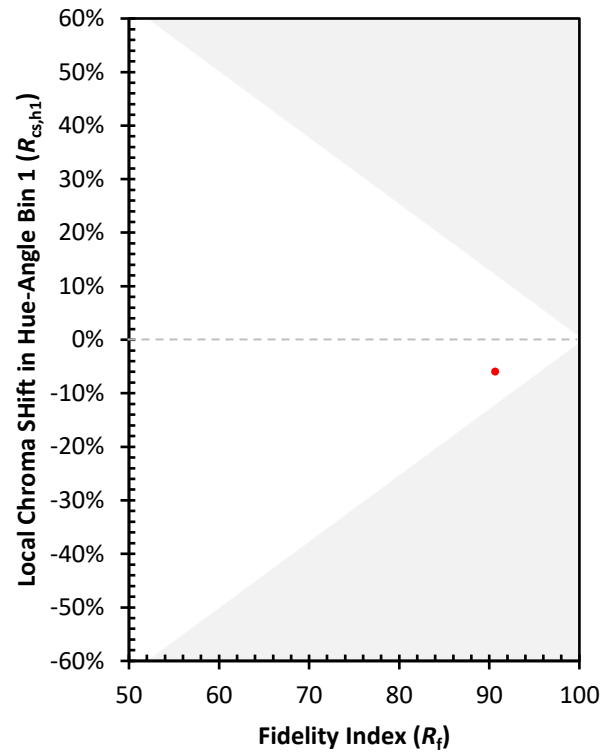
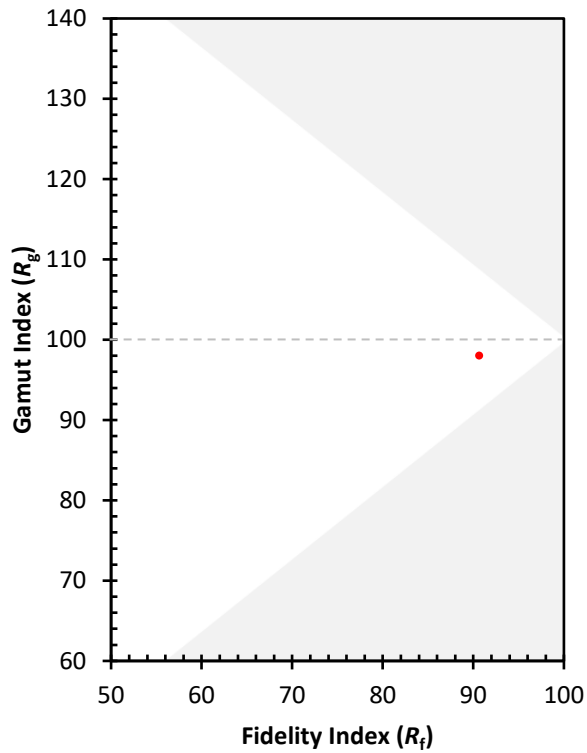
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82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