

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: P1050035

Luminaire Tested: **GALN-SA9C-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050035
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32899.6 lumens
Efficiency: N/A
Efficacy: 78.9 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): 417.1
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

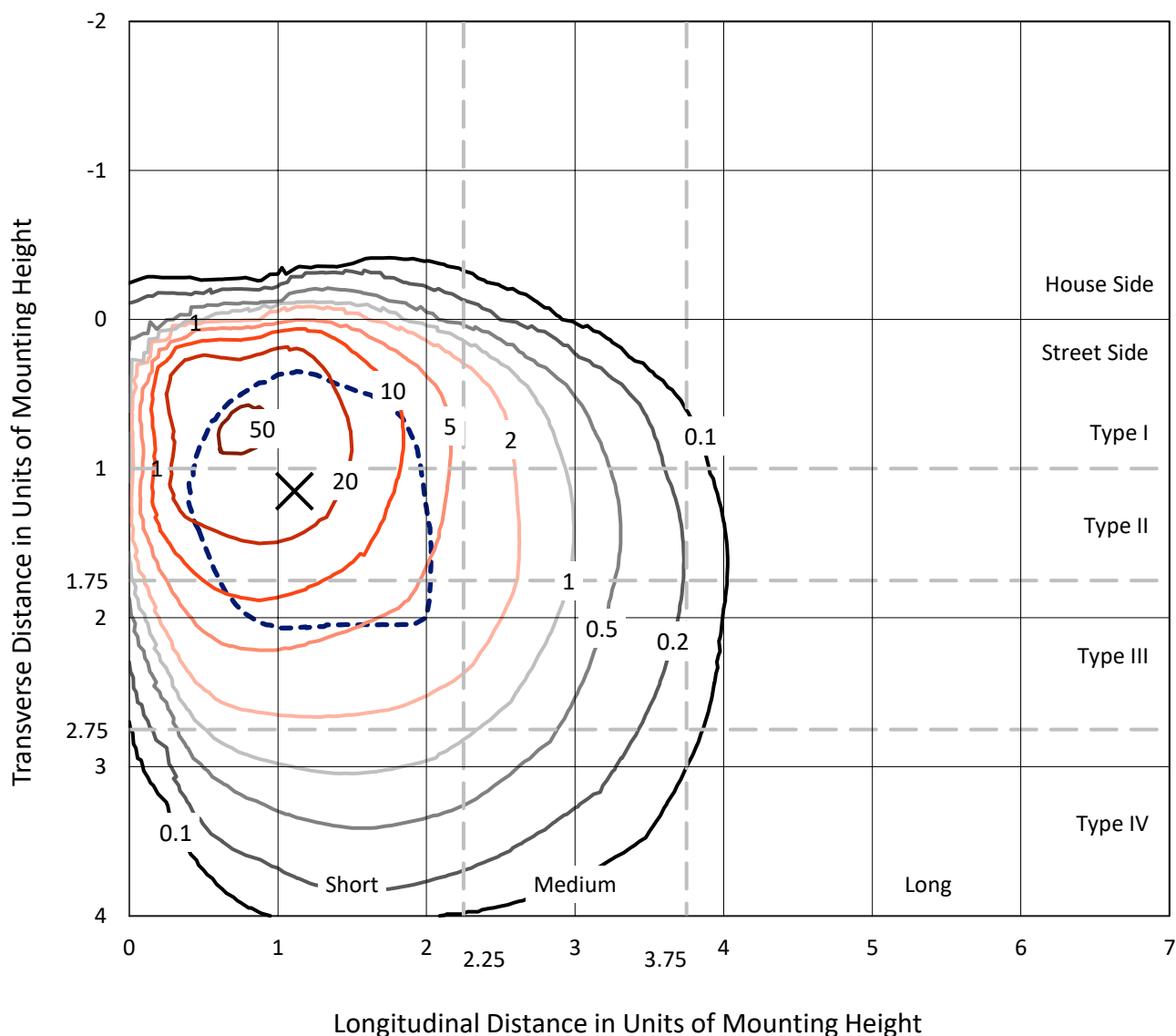
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

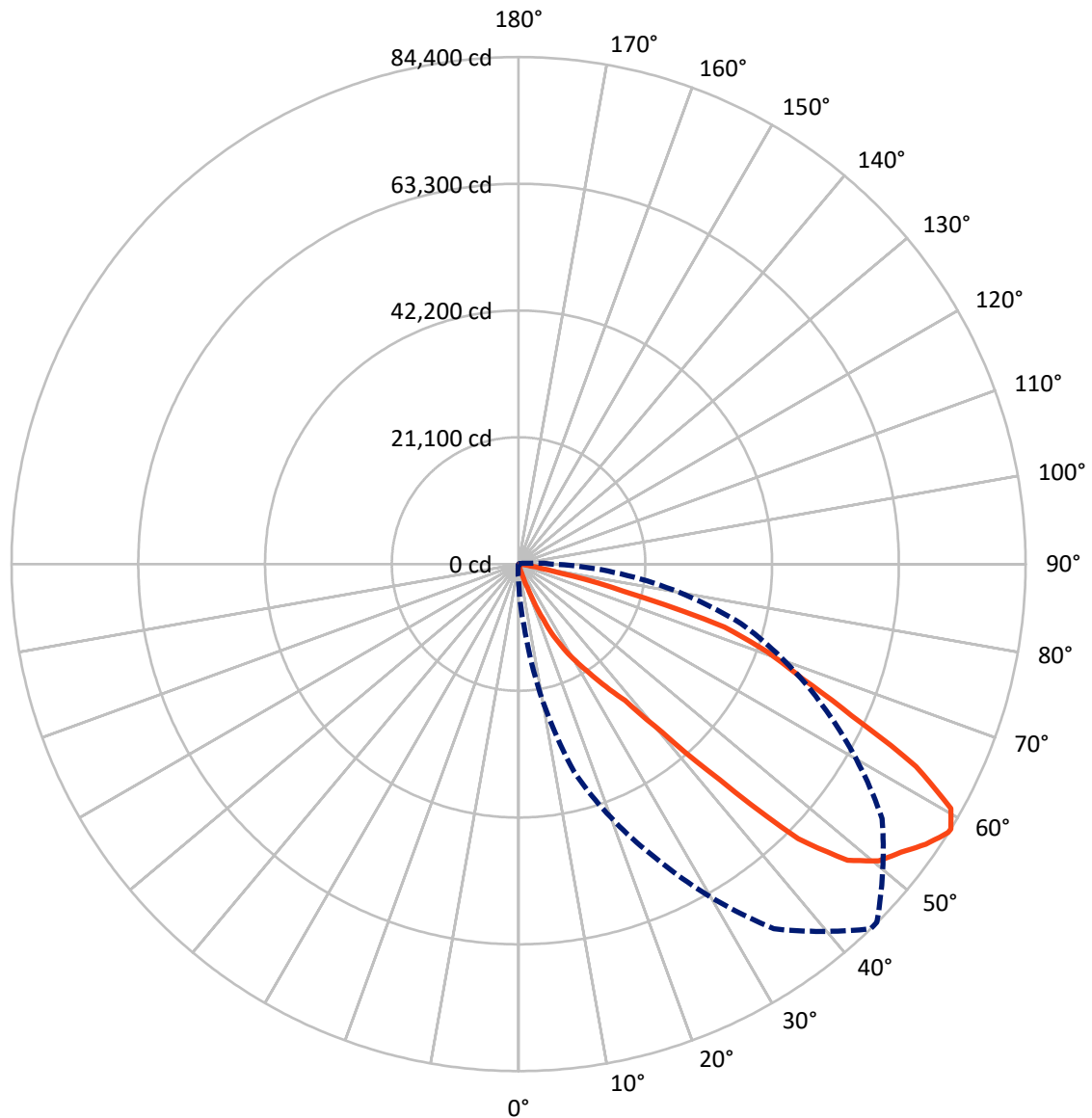


Based on 20 foot mounting height. Maximum calculated value = 57.3 fc

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	224.6	0.0	224.6
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32675.0	0.0	32675.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	32899.6	0.0	32899.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.0
10°-20°	72.2	0.2
20°-30°	779.4	2.4
30°-40°	2304.9	7.0
40°-50°	6870.0	20.9
50°-60°	10901.0	33.1
60°-70°	9092.7	27.6
70°-80°	2804.3	8.5
80°-90°	62.3	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°	32899.6	100.0
0°-180°	32899.6	100.0



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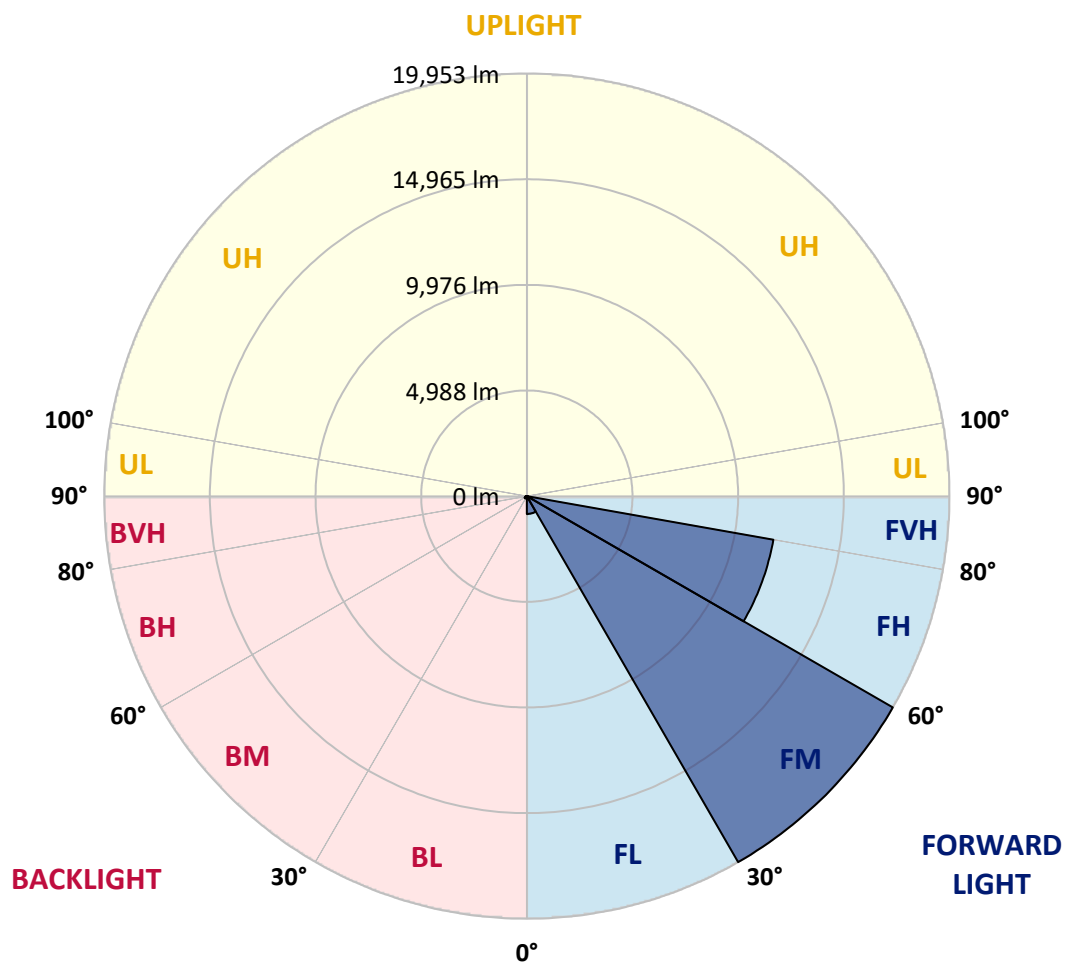
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.4	2.6			
FM	(30°-60°)	19952.9	60.6			
FH	(60°-80°)	11820.4	35.9			G4/12000
FVH	(80°-90°)	59.3	0.2			G1/100
BL	(0°-30°)	22.0	0.1	B0/110		
BM	(30°-60°)	122.9	0.4	B0/220		
BH	(60°-80°)	76.7	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1
2.5°	186.4	186.4	178.9	169.0	159.1	149.1	146.6	141.7	139.2	136.7
5°	193.9	193.9	191.4	183.9	174.0	166.5	166.5	159.1	154.1	149.1
7.5°	198.8	201.3	206.3	203.8	198.8	191.4	191.4	186.4	178.9	166.5
10°	206.3	213.7	223.7	228.6	231.1	231.1	228.6	226.2	213.7	196.3
12.5°	213.7	228.6	253.5	278.4	293.3	313.1	310.7	305.7	273.4	236.1
15°	228.6	251.0	303.2	375.3	487.1	556.7	584.0	559.2	452.3	318.1
17.5°	246.0	283.3	439.9	785.4	1287.4	1526.0	1670.1	1553.3	1028.9	603.9
20°	263.4	345.5	817.7	2035.5	3340.2	4120.6	4336.8	3998.8	2567.3	1150.7
22.5°	293.3	484.6	1657.7	4207.6	7197.4	8368.0	8589.2	7508.1	4848.8	2271.6
25°	355.4	703.3	2858.1	6856.9	10741.4	12717.2	12625.3	11208.6	7865.9	3628.5
27.5°	444.9	1023.9	4321.9	9742.3	14136.3	15878.5	16087.3	14335.1	10485.4	5335.9
30°	574.1	1419.1	5892.6	12053.6	16857.7	18741.5	18776.3	16964.6	12829.1	6834.5
32.5°	698.4	1791.9	7267.0	14287.9	19539.3	21604.6	21758.7	19529.4	14578.7	8395.3
35°	792.8	2035.5	8658.7	16251.3	22243.3	25089.0	25079.0	22432.2	16651.4	9789.5
37.5°	800.3	2279.0	9918.8	18259.4	25668.0	28854.2	29169.8	26252.1	19156.6	11514.3
40°	782.9	2552.4	11514.3	21390.9	31839.0	36727.6	37005.9	33327.7	24181.8	14466.9
42.5°	802.7	3027.1	14104.0	27174.1	42085.9	49106.8	49643.6	45776.5	33419.7	20491.2
45°	907.1	3919.3	19529.4	36849.4	56691.9	65251.2	65072.3	59502.7	44168.5	29661.9
47.5°	1252.6	6103.9	27571.8	46266.1	66026.6	73649.0	73803.1	66995.9	50441.4	36712.7
50°	1926.1	9339.7	34329.3	51244.1	70040.4	77687.6	77543.4	69677.5	52824.8	40184.6
52.5°	2505.2	11680.8	37719.2	52991.3	70554.8	79683.3	79673.3	70383.3	53195.1	40482.8
55°	2649.3	11857.3	37746.5	53085.7	71708.0	82295.3	82623.4	72120.5	53674.7	39180.5
57.5°	2592.2	10497.9	36170.9	53632.5	73760.8	84315.8	84333.2	73803.1	54892.5	38382.8
58°	2542.4	10284.1	35852.8	53943.2	74113.7	84400.3	84358.1	73880.1	55884.2	38352.9
60°	2264.1	8929.6	34612.6	54736.0	73589.3	82665.6	82270.5	72197.6	55737.5	38047.3
62.5°	1779.5	6966.3	33392.3	53818.9	67967.6	74267.8	74431.9	63919.1	50811.7	36265.3
65°	1416.6	5191.8	30847.4	47208.0	55968.7	60988.9	61600.3	51977.3	42411.4	30708.2
67.5°	1128.3	3752.8	25876.8	37585.0	44287.8	50901.2	51346.0	43639.2	32858.0	23528.2
70°	917.1	2537.5	17861.8	27487.3	36528.7	43964.7	43992.1	36252.9	24524.8	15416.2
72.5°	812.7	1757.1	10368.6	20046.3	29619.7	35825.4	35102.2	29418.3	18848.4	9130.9
75°	703.3	1165.6	5084.9	12255.0	17958.7	18080.5	18356.3	13646.7	9421.7	4341.8
77.5°	579.1	827.6	2003.1	3347.7	5385.6	6894.2	7150.2	5417.9	3133.9	1068.7
80°	397.6	392.7	539.3	1026.4	1540.9	1931.1	1801.8	1394.2	820.1	410.1
82.5°	171.5	186.4	243.6	293.3	238.6	231.1	221.2	141.7	109.4	84.5
85°	54.7	49.7	52.2	52.2	42.2	32.3	32.3	14.9	0.0	0.0
87.5°	27.3	22.4	22.4	19.9	12.4	5.0	2.5	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°
144.1	0°	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1
134.2	2.5°	131.7	131.7	126.7	121.8	119.3	114.3	111.8	109.4	106.9	104.4
144.1	5°	139.2	136.7	129.2	121.8	114.3	106.9	101.9	96.9	92.0	89.5
159.1	7.5°	151.6	146.6	131.7	119.3	109.4	99.4	94.4	87.0	82.0	74.6
176.5	10°	166.5	156.6	136.7	121.8	106.9	94.4	87.0	79.5	72.1	62.1
201.3	12.5°	186.4	169.0	144.1	119.3	101.9	87.0	79.5	69.6	62.1	54.7
233.6	15°	203.8	181.4	146.6	119.3	96.9	79.5	69.6	59.6	52.2	42.2
293.3	17.5°	228.6	191.4	144.1	111.8	89.5	69.6	59.6	52.2	39.8	24.9
434.9	20°	270.9	198.8	139.2	104.4	77.0	57.2	44.7	34.8	17.4	5.0
653.6	22.5°	338.0	218.7	134.2	94.4	67.1	44.7	29.8	12.4	0.0	0.0
994.1	25°	467.2	253.5	134.2	89.5	59.6	32.3	9.9	0.0	0.0	0.0
1411.6	27.5°	621.3	300.7	134.2	77.0	47.2	17.4	0.0	0.0	0.0	0.0
1923.6	30°	777.9	352.9	134.2	67.1	37.3	2.5	0.0	0.0	0.0	0.0
2368.5	32.5°	927.0	397.6	136.7	57.2	24.9	0.0	0.0	0.0	0.0	0.0
2984.8	35°	1078.6	405.1	134.2	49.7	14.9	0.0	0.0	0.0	0.0	0.0
3740.4	37.5°	1272.5	390.2	126.7	44.7	7.5	0.0	0.0	0.0	0.0	0.0
4920.9	40°	1565.7	397.6	119.3	42.2	2.5	0.0	0.0	0.0	0.0	0.0
7025.9	42.5°	2107.5	430.0	109.4	42.2	0.0	0.0	0.0	0.0	0.0	0.0
11191.2	45°	3643.4	576.6	99.4	44.7	0.0	0.0	0.0	0.0	0.0	0.0
16800.5	47.5°	6026.8	1036.4	96.9	44.7	0.0	0.0	0.0	0.0	0.0	0.0
20237.7	50°	7692.0	1304.8	101.9	47.2	0.0	0.0	0.0	0.0	0.0	0.0
20667.6	52.5°	7679.5	1453.9	106.9	49.7	9.9	0.0	0.0	0.0	0.0	0.0
19049.7	55°	6827.1	1481.2	114.3	54.7	32.3	0.0	0.0	0.0	0.0	0.0
16370.6	57.5°	5706.2	1352.0	131.7	67.1	59.6	0.0	0.0	0.0	0.0	0.0
15950.6	58°	5507.4	1292.3	136.7	69.6	64.6	0.0	0.0	0.0	0.0	0.0
13835.6	60°	4513.3	1053.8	174.0	87.0	87.0	0.0	0.0	0.0	0.0	0.0
11342.8	62.5°	3116.5	919.6	198.8	111.8	89.5	0.0	0.0	0.0	0.0	0.0
8363.0	65°	2204.4	830.1	216.2	119.3	72.1	0.0	0.0	0.0	0.0	0.0
5942.3	67.5°	1647.7	765.5	238.6	121.8	37.3	0.0	0.0	0.0	0.0	0.0
3727.9	70°	1262.5	718.2	293.3	129.2	9.9	0.0	0.0	0.0	0.0	0.0
2221.8	72.5°	1028.9	663.6	355.4	134.2	0.0	0.0	0.0	0.0	0.0	0.0
1332.1	75°	852.5	599.0	343.0	146.6	0.0	0.0	0.0	0.0	0.0	0.0
710.8	77.5°	566.6	464.7	313.1	146.6	0.0	0.0	0.0	0.0	0.0	0.0
253.5	80°	198.8	183.9	243.6	129.2	0.0	0.0	0.0	0.0	0.0	0.0
52.2	82.5°	29.8	24.9	34.8	44.7	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°
144.1	0°	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1
101.9	2.5°	101.9	101.9	99.4	101.9	101.9	106.9	119.3	136.7	156.6	164.0
87.0	5°	84.5	82.0	79.5	79.5	79.5	87.0	96.9	116.8	139.2	149.1
72.1	7.5°	69.6	67.1	64.6	62.1	62.1	67.1	79.5	101.9	124.3	134.2
59.6	10°	57.2	52.2	49.7	47.2	47.2	52.2	64.6	87.0	111.8	121.8
49.7	12.5°	47.2	39.8	34.8	32.3	29.8	37.3	49.7	69.6	96.9	109.4
37.3	15°	32.3	24.9	17.4	14.9	12.4	19.9	32.3	54.7	82.0	96.9
19.9	17.5°	17.4	7.5	2.5	0.0	0.0	5.0	14.9	39.8	67.1	79.5
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	49.7	62.1
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.8	42.2
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	22.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
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	7.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	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



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
144.1	0°	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1
171.5	2.5°	176.5	174.0	169.0	164.0	164.0	164.0	171.5	178.9	186.4	186.4
154.1	5°	164.0	164.0	161.5	156.6	156.6	159.1	169.0	181.4	191.4	193.9
141.7	7.5°	151.6	156.6	151.6	149.1	151.6	154.1	164.0	178.9	193.9	198.8
131.7	10°	144.1	146.6	146.6	144.1	144.1	149.1	159.1	178.9	198.8	206.3
119.3	12.5°	134.2	139.2	136.7	136.7	136.7	141.7	154.1	176.5	203.8	213.7
106.9	15°	124.3	131.7	131.7	129.2	129.2	131.7	149.1	174.0	211.2	228.6
92.0	17.5°	114.3	121.8	124.3	119.3	119.3	124.3	141.7	174.0	216.2	246.0
74.6	20°	94.4	106.9	114.3	106.9	106.9	111.8	129.2	164.0	218.7	263.4
54.7	22.5°	74.6	87.0	96.9	94.4	94.4	96.9	119.3	156.6	221.2	293.3
32.3	25°	54.7	67.1	74.6	79.5	79.5	87.0	109.4	151.6	231.1	355.4
14.9	27.5°	32.3	47.2	57.2	62.1	64.6	74.6	101.9	146.6	248.5	444.9
0.0	30°	14.9	27.3	39.8	49.7	49.7	67.1	94.4	141.7	270.9	574.1
0.0	32.5°	0.0	12.4	19.9	34.8	37.3	54.7	87.0	136.7	303.2	698.4
0.0	35°	0.0	0.0	9.9	27.3	27.3	44.7	79.5	131.7	352.9	792.8
0.0	37.5°	0.0	0.0	0.0	19.9	22.4	39.8	77.0	129.2	362.9	800.3
0.0	40°	0.0	0.0	0.0	14.9	17.4	37.3	77.0	131.7	328.1	782.9
0.0	42.5°	0.0	0.0	0.0	9.9	12.4	37.3	77.0	136.7	295.7	802.7
0.0	45°	0.0	0.0	0.0	7.5	9.9	39.8	74.6	134.2	278.4	907.1
0.0	47.5°	0.0	0.0	0.0	9.9	14.9	39.8	72.1	131.7	280.8	1252.6
0.0	50°	0.0	0.0	0.0	12.4	17.4	39.8	74.6	126.7	308.2	1926.1
0.0	52.5°	0.0	0.0	0.0	9.9	14.9	44.7	82.0	124.3	335.5	2505.2
0.0	55°	0.0	0.0	0.0	2.5	7.5	57.2	89.5	124.3	377.8	2649.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	64.6	101.9	131.7	447.4	2592.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	64.6	104.4	131.7	452.3	2542.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	64.6	114.3	146.6	487.1	2264.1
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	54.7	136.7	183.9	507.0	1779.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	44.7	161.5	201.3	521.9	1416.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	42.2	166.5	203.8	529.4	1128.3
0.0	70°	0.0	0.0	0.0	0.0	0.0	44.7	164.0	218.7	554.2	917.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	49.7	149.1	241.1	554.2	812.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	52.2	139.2	270.9	504.5	703.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	49.7	136.7	315.6	449.8	579.1
0.0	80°	5.0	7.5	7.5	5.0	5.0	42.2	134.2	320.6	382.7	397.6
2.5	82.5°	14.9	19.9	17.4	12.4	12.4	37.3	119.3	268.4	198.8	171.5
14.9	85°	27.3	32.3	32.3	27.3	27.3	34.8	74.6	96.9	67.1	54.7
27.3	87.5°	37.3	42.2	42.2	37.3	37.3	34.8	32.3	29.8	27.3	27.3
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

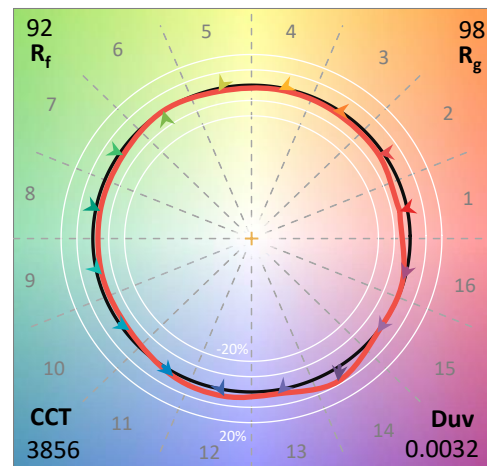
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

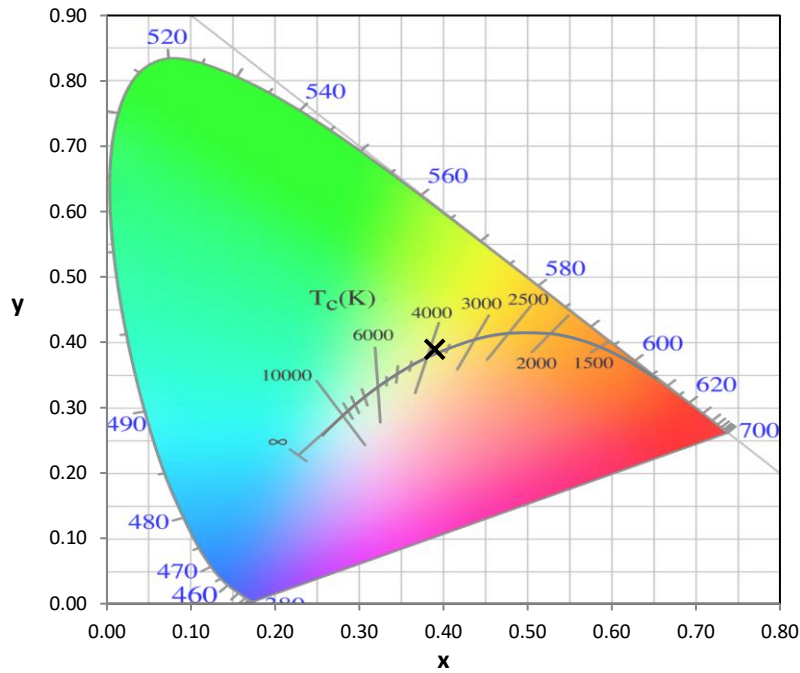
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

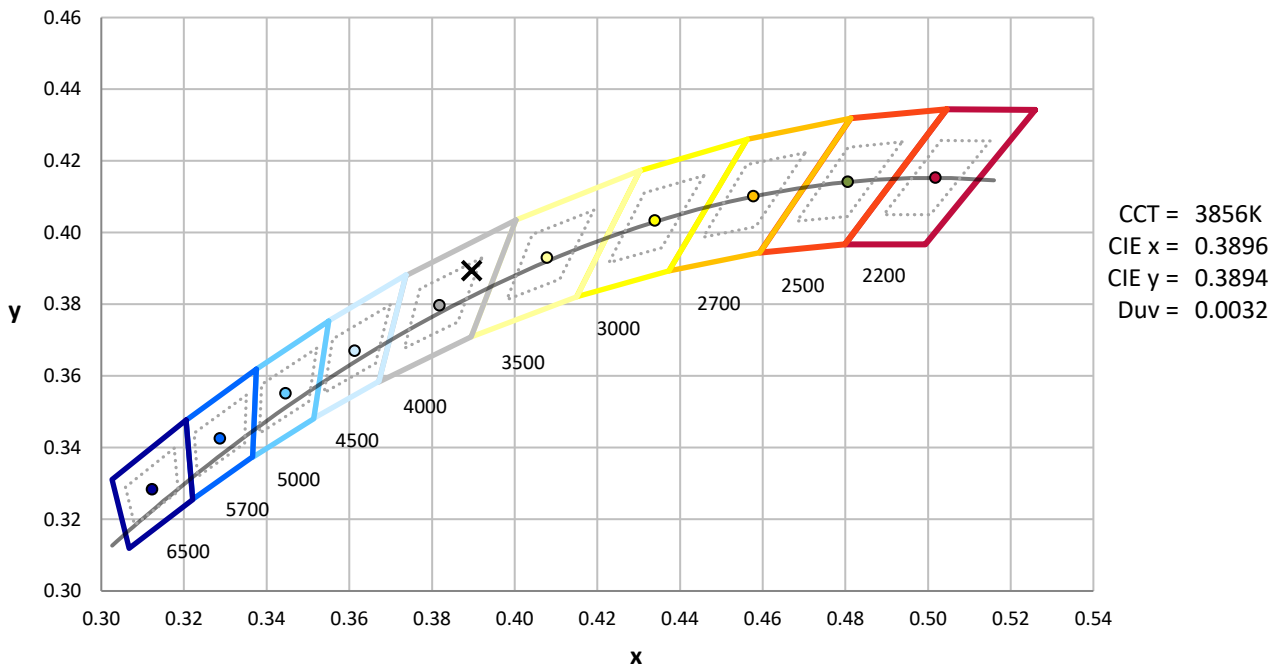
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



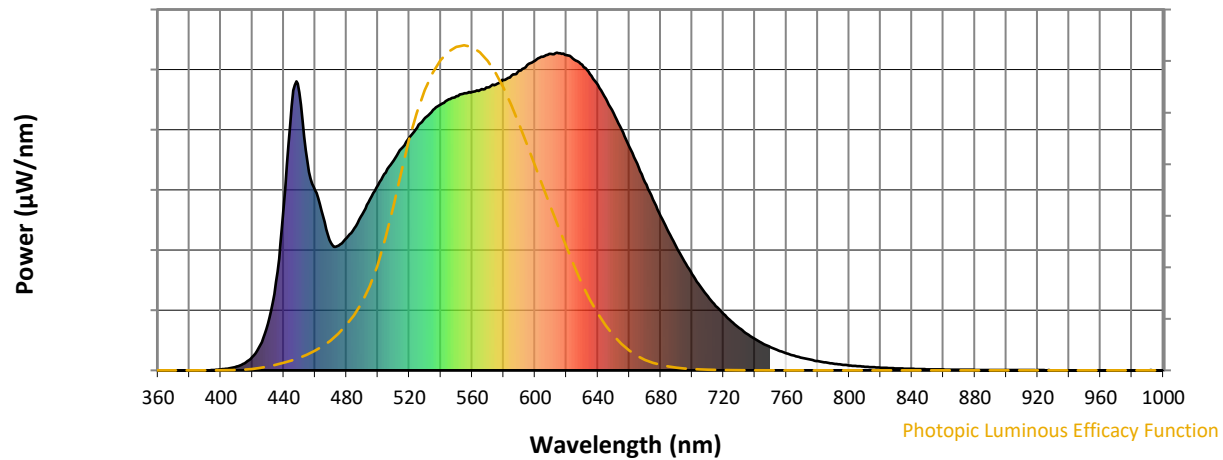
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

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Photopic Flux vs. Wavelength

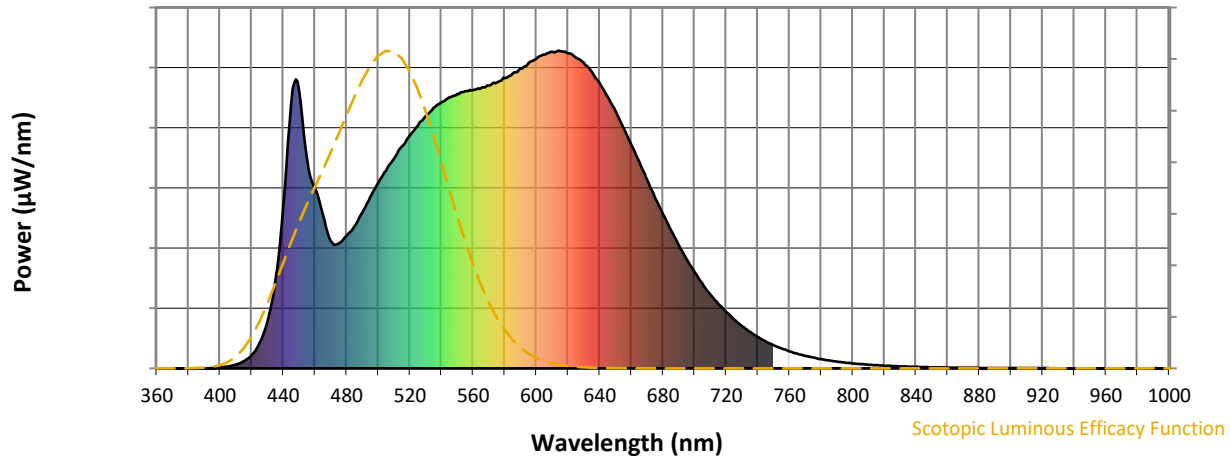


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



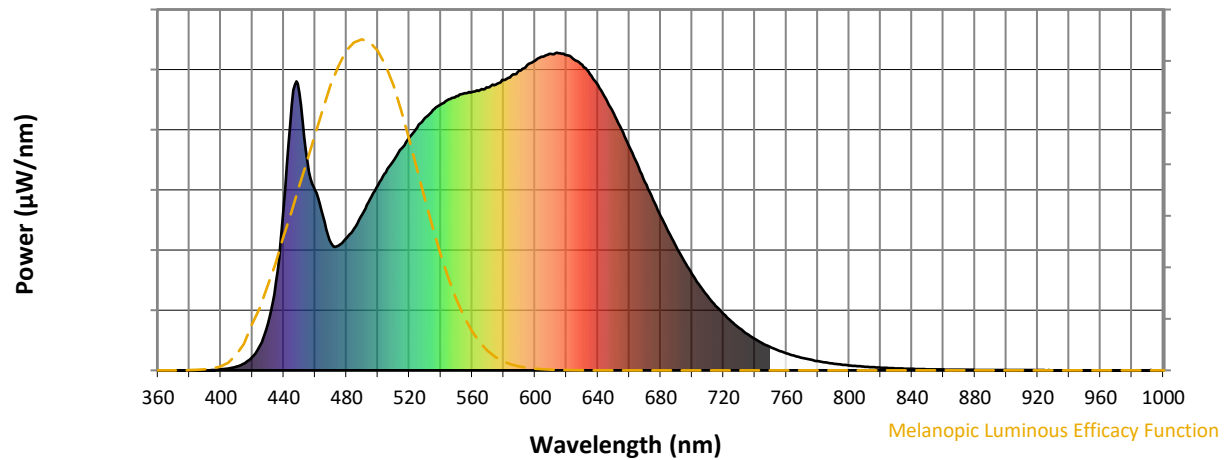
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.52

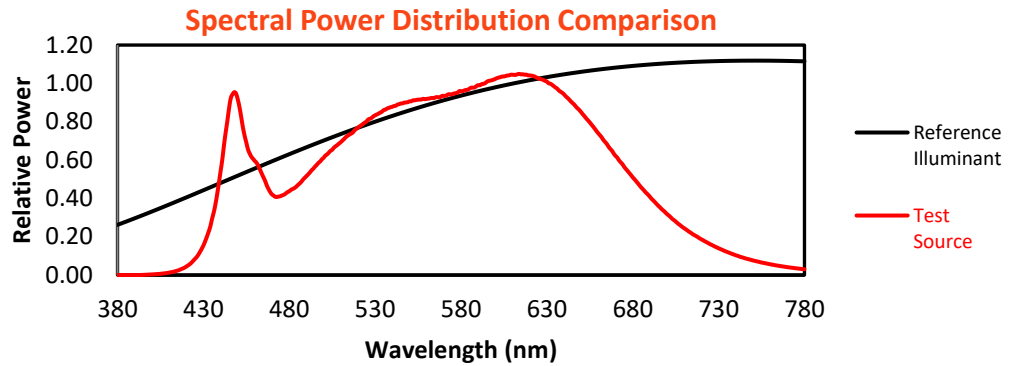
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

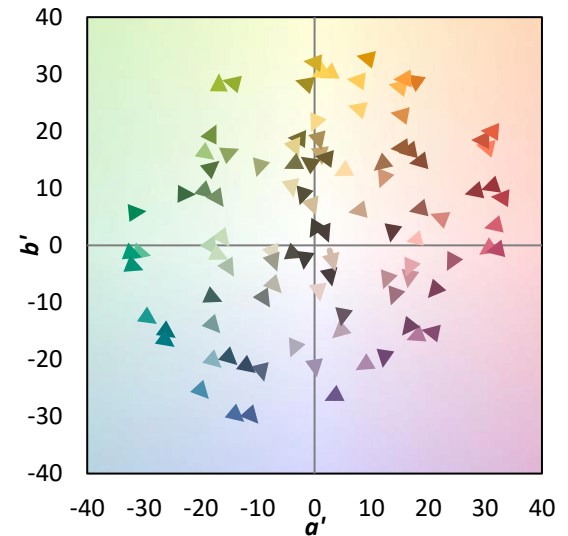
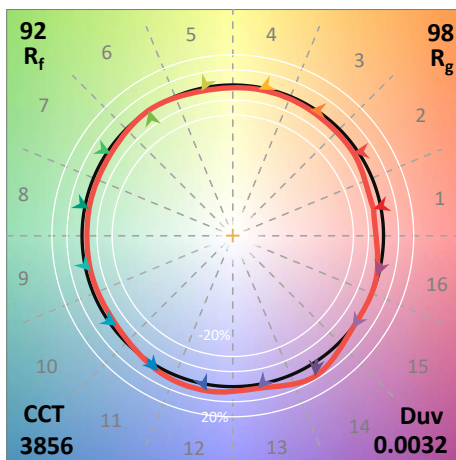
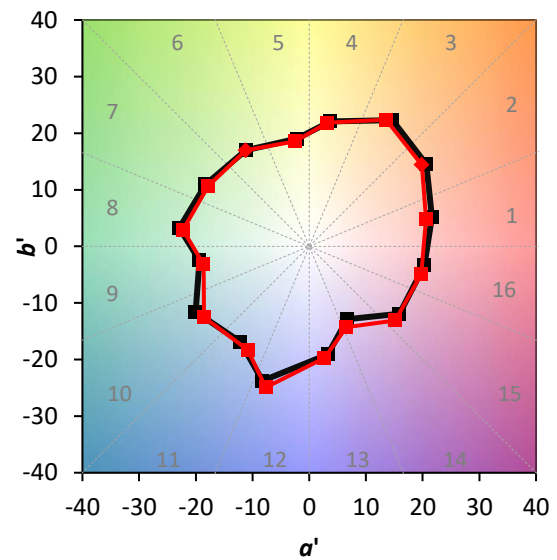
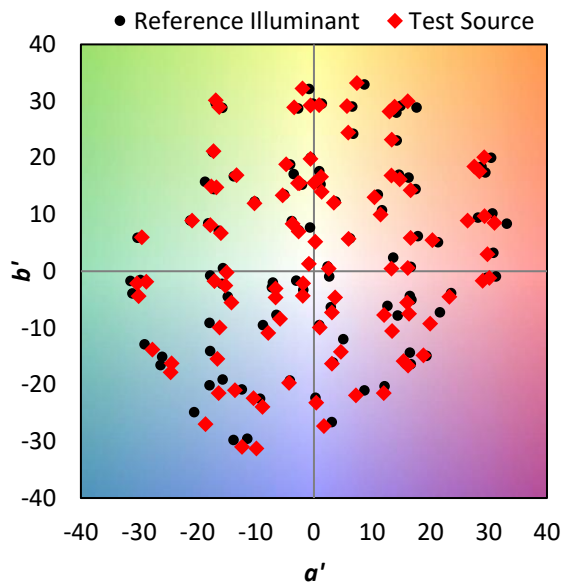
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE R_a = 92.1$
 $R_9 = 60.7$

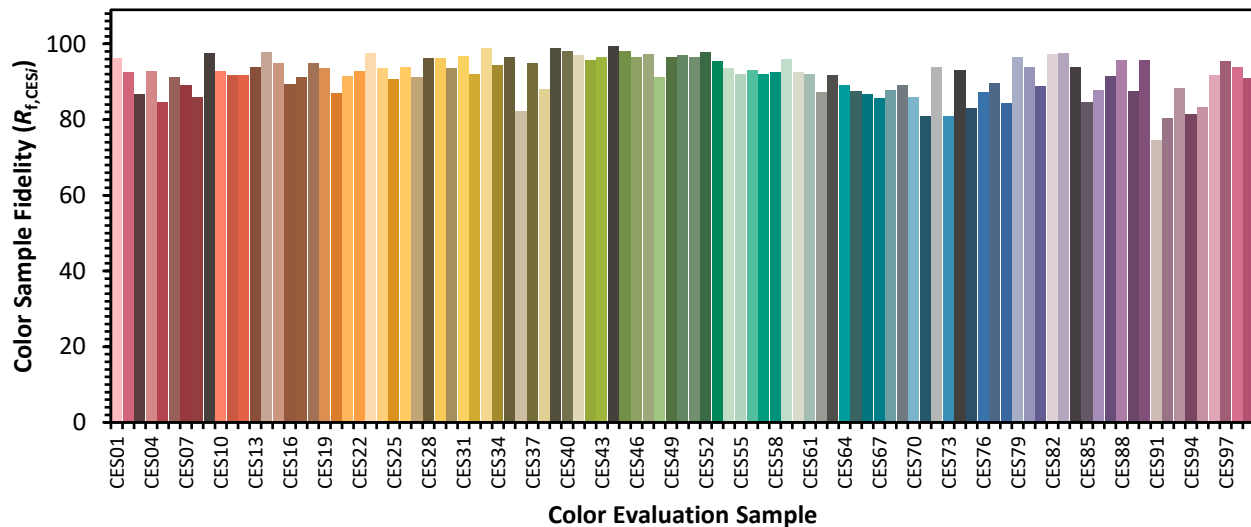


Color Vector Graphics

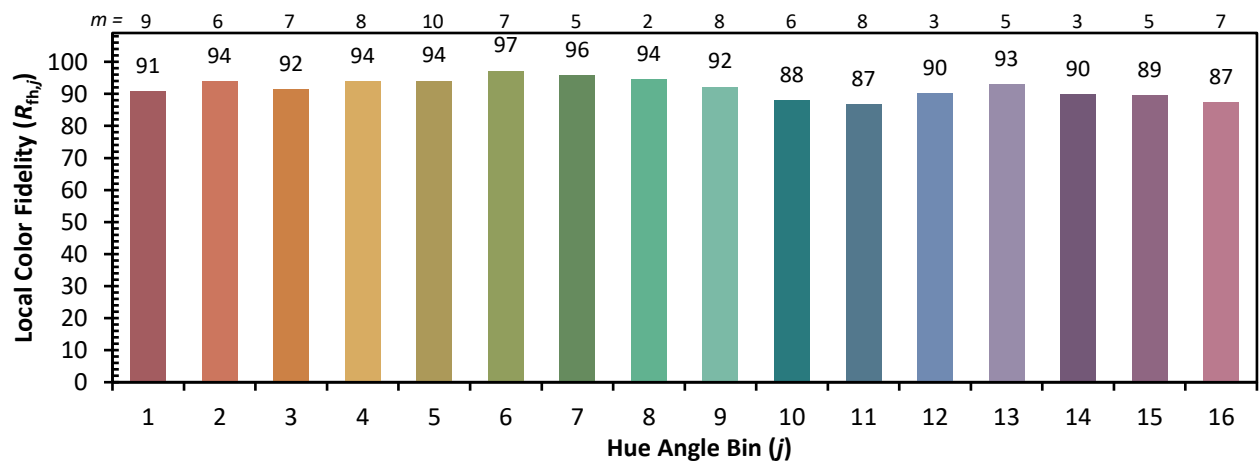
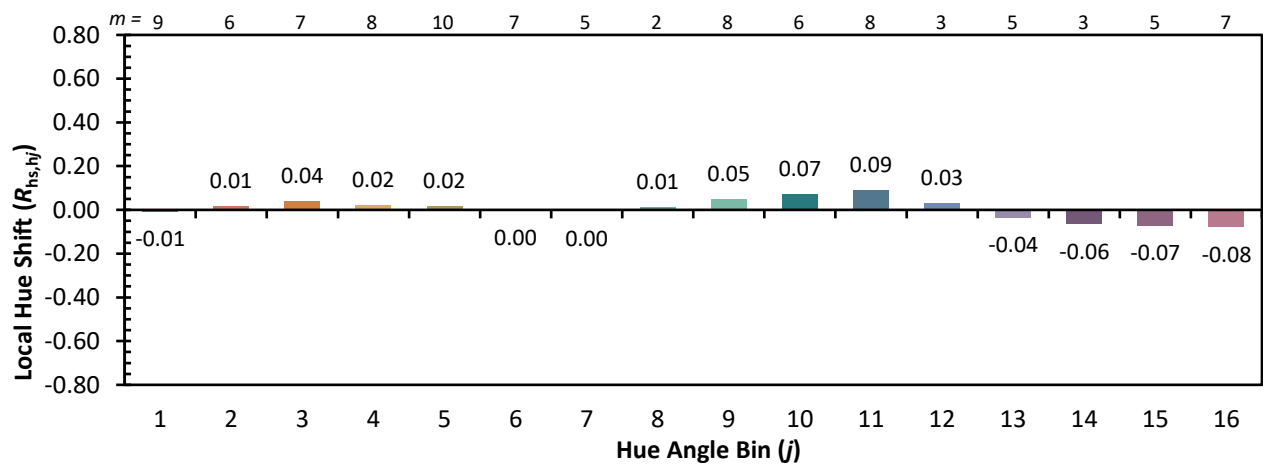
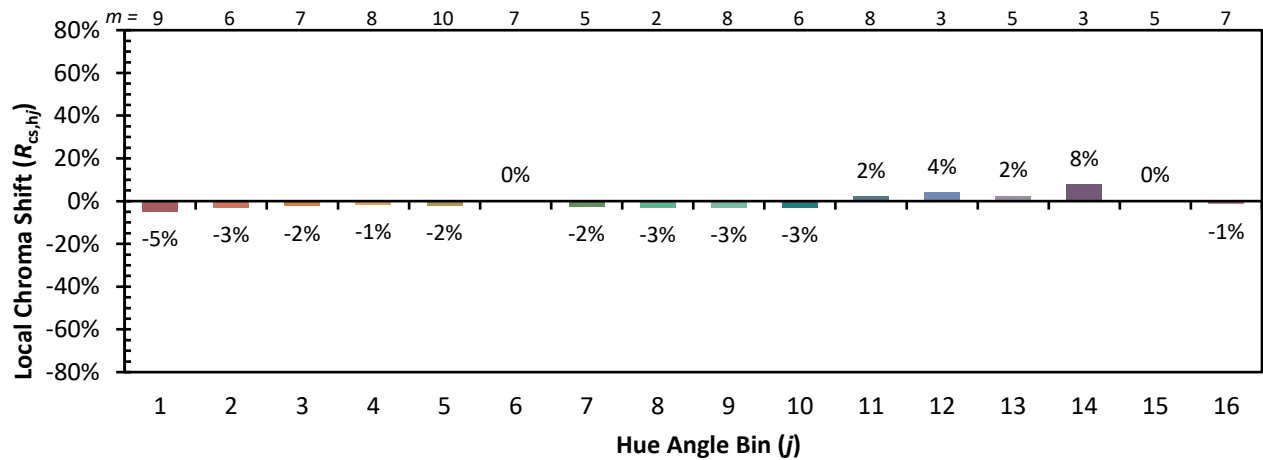


Individual Sample Fidelity Index ($R_{f,i}$)

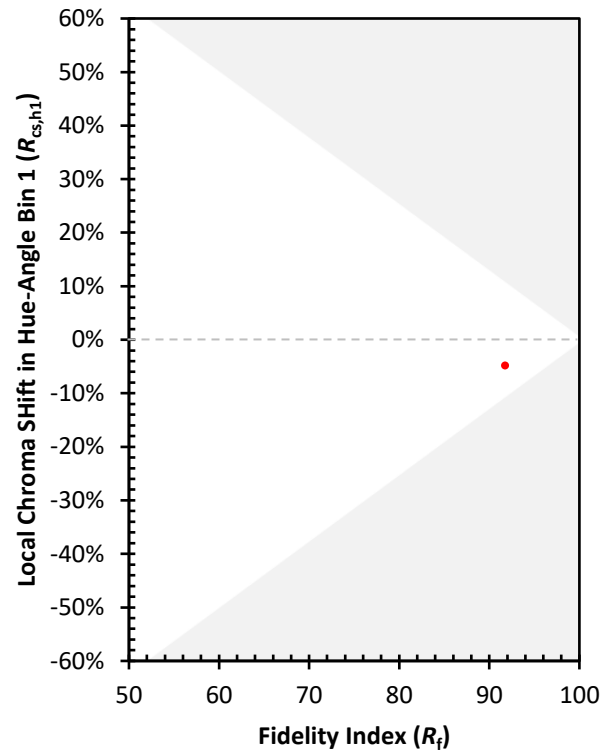
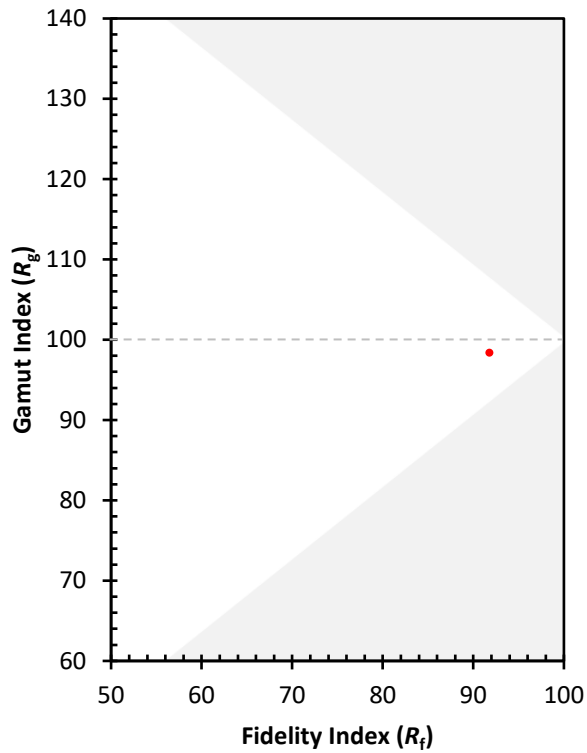
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)