

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: P1049995

Luminaire Tested: **GALN-SA8C-935-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049995
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29419.8 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

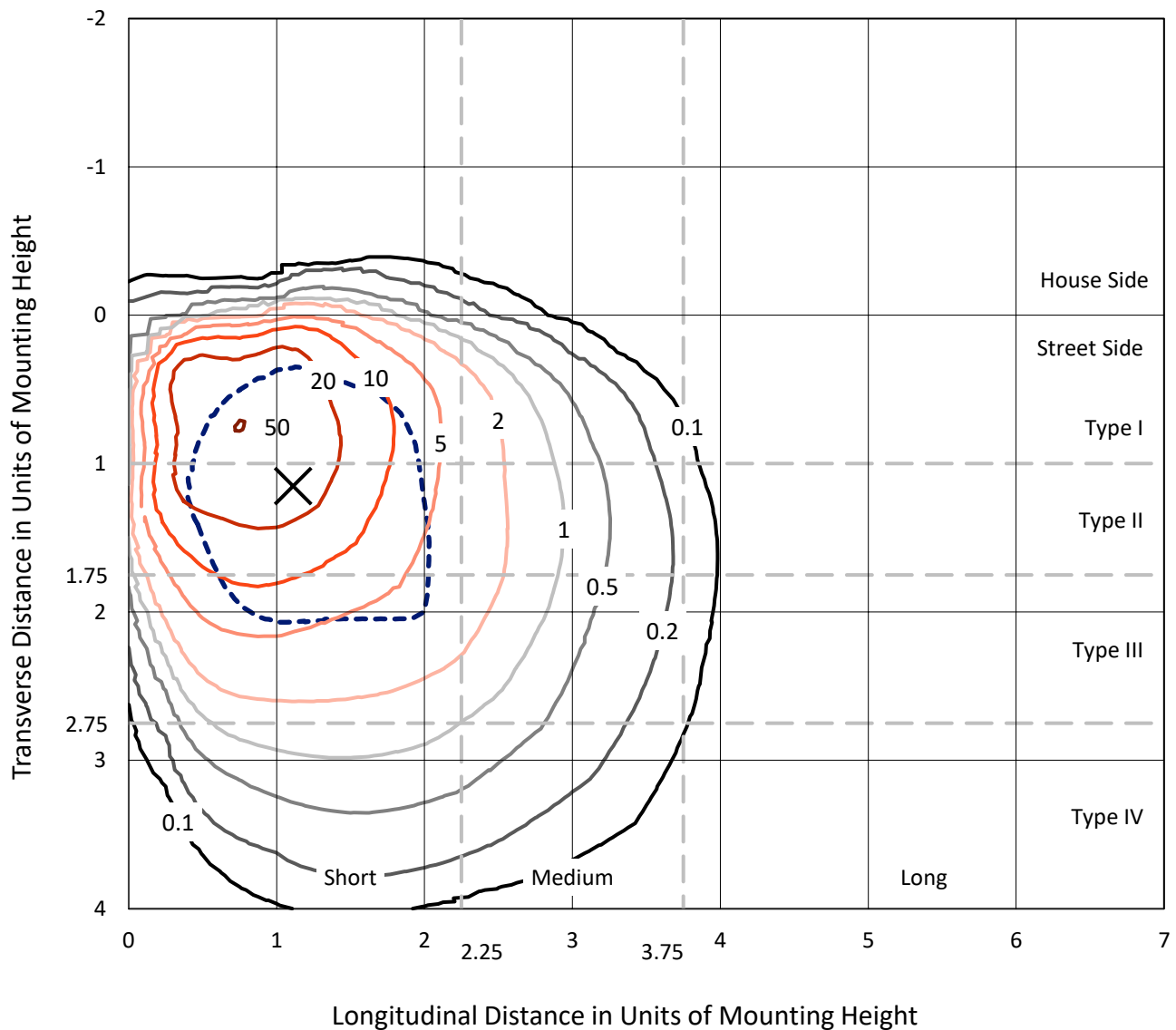
Input Watts (W): 372.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

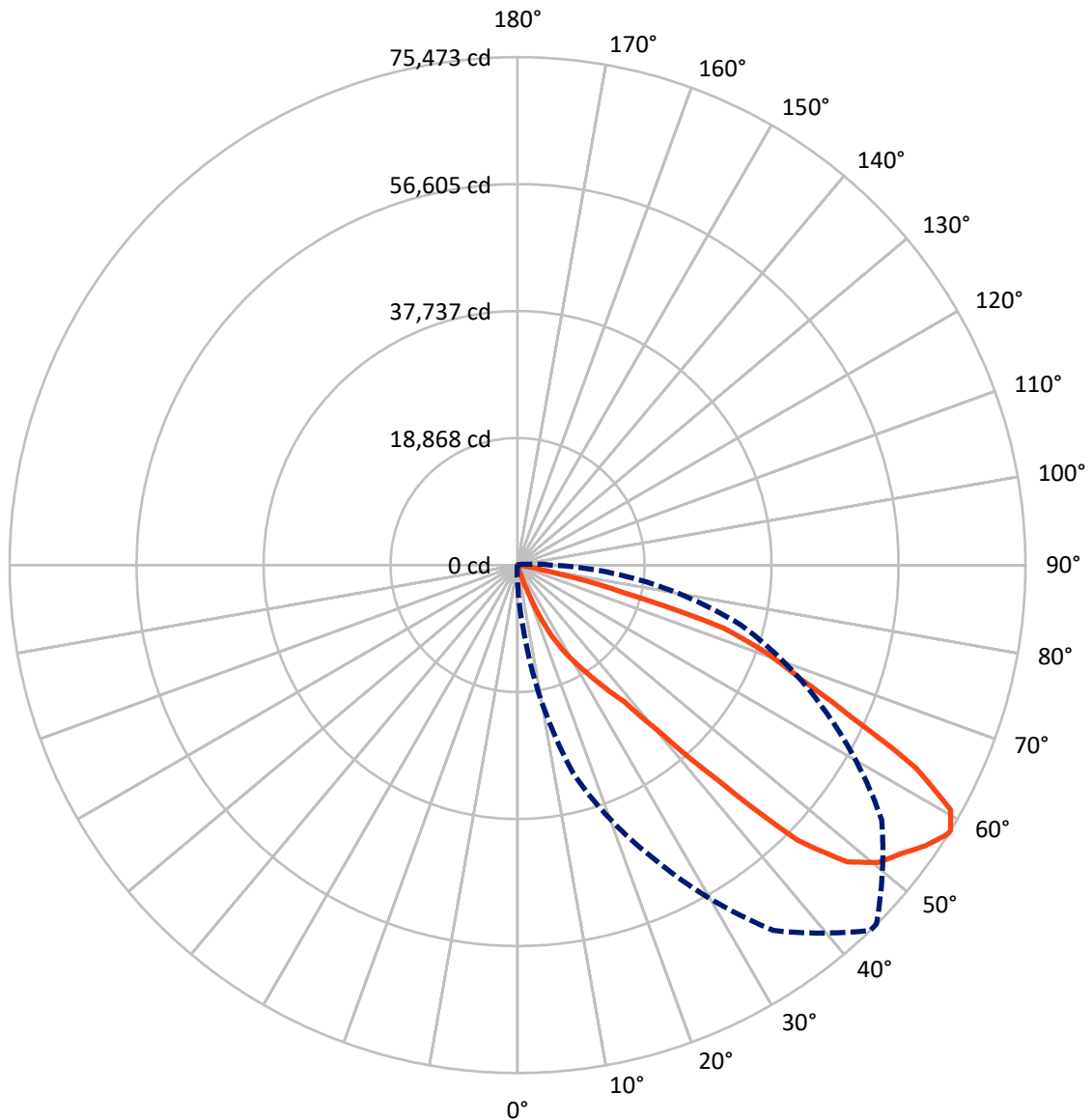
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.2 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	200.9	0.0	200.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	29218.9	0.0	29218.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	29419.8	0.0	29419.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.0
10°-20°	64.5	0.2
20°-30°	697.0	2.4
30°-40°	2061.1	7.0
40°-50°	6143.3	20.9
50°-60°	9748.0	33.1
60°-70°	8131.0	27.6
70°-80°	2507.7	8.5
80°-90°	55.7	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°	29419.8	100.0
0°-180°	29419.8	100.0



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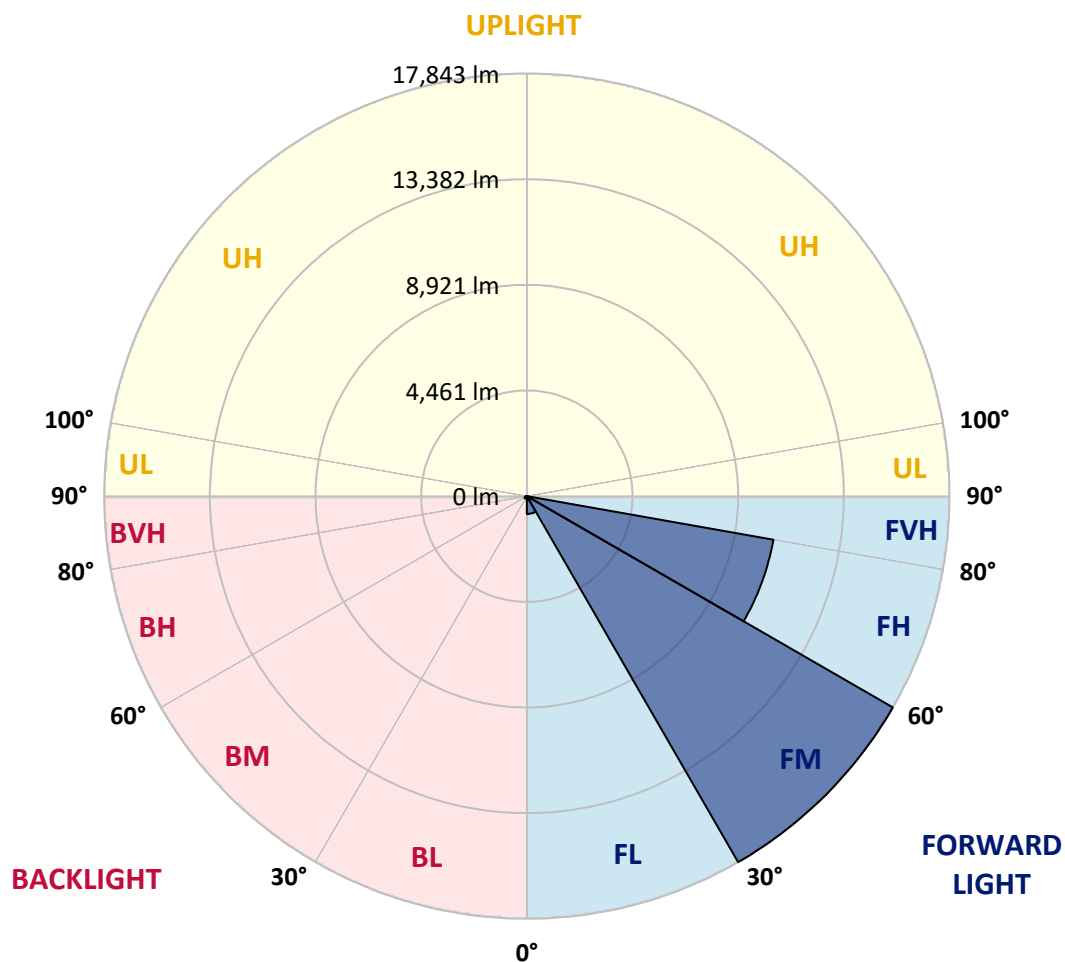
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	753.3	2.6			
FM	(30°-60°)	17842.5	60.6			
FH	(60°-80°)	10570.1	35.9			G4/12000
FVH	(80°-90°)	53.0	0.2			G1/100
BL	(0°-30°)	19.7	0.1	B0/110		
BM	(30°-60°)	109.9	0.4	B0/220		
BH	(60°-80°)	68.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.7	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°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
2.5°	166.7	166.7	160.0	151.1	142.2	133.3	131.1	126.7	124.5	122.2
5°	173.3	173.3	171.1	164.5	155.6	148.9	148.9	142.2	137.8	133.3
7.5°	177.8	180.0	184.5	182.2	177.8	171.1	171.1	166.7	160.0	148.9
10°	184.5	191.1	200.0	204.5	206.7	206.7	204.5	202.2	191.1	175.6
12.5°	191.1	204.5	226.7	248.9	262.2	280.0	277.8	273.4	244.5	211.1
15°	204.5	224.5	271.1	335.6	435.6	497.8	522.3	500.0	404.5	284.5
17.5°	220.0	253.4	393.4	702.3	1151.2	1364.6	1493.5	1389.0	920.1	540.0
20°	235.6	308.9	731.2	1820.2	2986.9	3684.8	3878.1	3575.9	2295.8	1029.0
22.5°	262.2	433.4	1482.4	3762.6	6436.1	7482.9	7680.7	6713.9	4335.9	2031.3
25°	317.8	628.9	2555.8	6131.7	9605.3	11372.1	11289.9	10023.1	7034.0	3244.7
27.5°	397.8	915.6	3864.8	8711.9	12641.1	14199.0	14385.7	12818.9	9376.4	4771.5
30°	513.4	1269.0	5269.4	10778.7	15074.7	16759.3	16790.4	15170.2	11472.1	6111.6
32.5°	624.5	1602.4	6498.3	12776.7	17472.6	19319.5	19457.3	17463.8	13036.7	7507.3
35°	709.0	1820.2	7742.9	14532.4	19890.6	22435.3	22426.4	20059.5	14890.2	8754.1
37.5°	715.6	2038.0	8869.7	16328.1	22953.1	25802.3	26084.5	23475.4	17130.4	10296.5
40°	700.1	2282.4	10296.5	19128.3	28471.4	32842.9	33091.8	29802.6	21624.1	12936.7
42.5°	717.8	2706.9	12612.2	24299.9	37634.4	43912.8	44392.8	40934.7	29884.9	18323.8
45°	811.2	3504.8	17463.8	32951.8	50695.6	58349.6	58189.6	53209.1	39496.8	26524.6
47.5°	1120.1	5458.3	24655.5	41372.5	59043.0	65859.1	65996.9	59909.7	45106.2	32829.6
50°	1722.4	8351.8	30698.3	45824.0	62632.2	69470.6	69341.7	62307.7	47237.5	35934.3
52.5°	2240.2	10445.4	33729.6	47386.4	63092.2	71255.2	71246.3	62938.9	47568.6	36201.0
55°	2369.1	10603.2	33754.1	47470.8	64123.4	73590.9	73884.3	64492.3	47997.6	35036.4
57.5°	2318.0	9387.5	32345.1	47959.8	65959.1	75397.7	75413.3	65996.9	49086.5	34323.0
58°	2273.5	9196.4	32060.6	48237.6	66274.7	75473.3	75435.5	66065.8	49973.3	34296.4
60°	2024.6	7985.1	30951.6	48946.5	65805.8	73922.1	73568.7	64561.2	49842.2	34023.0
62.5°	1591.3	6229.4	29860.4	48126.5	60778.7	66412.5	66559.2	57158.4	45437.3	32429.5
65°	1266.8	4642.6	27584.6	42214.8	50048.8	54538.1	55084.8	46479.6	37925.6	27460.2
67.5°	1009.0	3355.9	23139.8	33609.6	39603.5	45517.3	45915.2	39023.4	29382.6	21039.6
70°	820.1	2269.1	15972.5	24579.9	32665.1	39314.6	39339.0	32418.4	21930.8	13785.7
72.5°	726.7	1571.2	9271.9	17926.0	26486.8	32036.2	31389.4	26306.8	16854.8	8165.2
75°	628.9	1042.3	4547.1	10958.7	16059.2	16168.1	16414.8	12203.3	8425.2	3882.6
77.5°	517.8	740.1	1791.3	2993.6	4816.0	6165.0	6393.9	4844.9	2802.5	955.6
80°	355.6	351.1	482.3	917.9	1377.9	1726.8	1611.3	1246.8	733.4	366.7
82.5°	153.3	166.7	217.8	262.2	213.4	206.7	197.8	126.7	97.8	75.6
85°	48.9	44.4	46.7	46.7	37.8	28.9	28.9	13.3	0.0	0.0
87.5°	24.4	20.0	20.0	17.8	11.1	4.4	2.2	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°
128.9	0°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
120.0	2.5°	117.8	117.8	113.3	108.9	106.7	102.2	100.0	97.8	95.6	93.3
128.9	5°	124.5	122.2	115.6	108.9	102.2	95.6	91.1	86.7	82.2	80.0
142.2	7.5°	135.6	131.1	117.8	106.7	97.8	88.9	84.5	77.8	73.3	66.7
157.8	10°	148.9	140.0	122.2	108.9	95.6	84.5	77.8	71.1	64.5	55.6
180.0	12.5°	166.7	151.1	128.9	106.7	91.1	77.8	71.1	62.2	55.6	48.9
208.9	15°	182.2	162.2	131.1	106.7	86.7	71.1	62.2	53.3	46.7	37.8
262.2	17.5°	204.5	171.1	128.9	100.0	80.0	62.2	53.3	46.7	35.6	22.2
388.9	20°	242.2	177.8	124.5	93.3	68.9	51.1	40.0	31.1	15.6	4.4
584.5	22.5°	302.2	195.6	120.0	84.5	60.0	40.0	26.7	11.1	0.0	0.0
889.0	25°	417.8	226.7	120.0	80.0	53.3	28.9	8.9	0.0	0.0	0.0
1262.3	27.5°	555.6	268.9	120.0	68.9	42.2	15.6	0.0	0.0	0.0	0.0
1720.2	30°	695.6	315.6	120.0	60.0	33.3	2.2	0.0	0.0	0.0	0.0
2118.0	32.5°	829.0	355.6	122.2	51.1	22.2	0.0	0.0	0.0	0.0	0.0
2669.1	35°	964.5	362.3	120.0	44.4	13.3	0.0	0.0	0.0	0.0	0.0
3344.7	37.5°	1137.9	348.9	113.3	40.0	6.7	0.0	0.0	0.0	0.0	0.0
4400.4	40°	1400.1	355.6	106.7	37.8	2.2	0.0	0.0	0.0	0.0	0.0
6282.8	42.5°	1884.6	384.5	97.8	37.8	0.0	0.0	0.0	0.0	0.0	0.0
10007.5	45°	3258.1	515.6	88.9	40.0	0.0	0.0	0.0	0.0	0.0	0.0
15023.5	47.5°	5389.4	926.7	86.7	40.0	0.0	0.0	0.0	0.0	0.0	0.0
18097.1	50°	6878.4	1166.8	91.1	42.2	0.0	0.0	0.0	0.0	0.0	0.0
18481.6	52.5°	6867.3	1300.1	95.6	44.4	8.9	0.0	0.0	0.0	0.0	0.0
17034.8	55°	6105.0	1324.6	102.2	48.9	28.9	0.0	0.0	0.0	0.0	0.0
14639.1	57.5°	5102.7	1209.0	117.8	60.0	53.3	0.0	0.0	0.0	0.0	0.0
14263.5	58°	4924.9	1155.7	122.2	62.2	57.8	0.0	0.0	0.0	0.0	0.0
12372.2	60°	4035.9	942.3	155.6	77.8	77.8	0.0	0.0	0.0	0.0	0.0
10143.1	62.5°	2786.9	822.3	177.8	100.0	80.0	0.0	0.0	0.0	0.0	0.0
7478.4	65°	1971.3	742.3	193.4	106.7	64.5	0.0	0.0	0.0	0.0	0.0
5313.8	67.5°	1473.5	684.5	213.4	108.9	33.3	0.0	0.0	0.0	0.0	0.0
3333.6	70°	1129.0	642.3	262.2	115.6	8.9	0.0	0.0	0.0	0.0	0.0
1986.8	72.5°	920.1	593.4	317.8	120.0	0.0	0.0	0.0	0.0	0.0	0.0
1191.2	75°	762.3	535.6	306.7	131.1	0.0	0.0	0.0	0.0	0.0	0.0
635.6	77.5°	506.7	415.6	280.0	131.1	0.0	0.0	0.0	0.0	0.0	0.0
226.7	80°	177.8	164.5	217.8	115.6	0.0	0.0	0.0	0.0	0.0	0.0
46.7	82.5°	26.7	22.2	31.1	40.0	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	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°
128.9	0°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
91.1	2.5°	91.1	91.1	88.9	91.1	91.1	95.6	106.7	122.2	140.0	146.7
77.8	5°	75.6	73.3	71.1	71.1	71.1	77.8	86.7	104.5	124.5	133.3
64.5	7.5°	62.2	60.0	57.8	55.6	55.6	60.0	71.1	91.1	111.1	120.0
53.3	10°	51.1	46.7	44.4	42.2	42.2	46.7	57.8	77.8	100.0	108.9
44.4	12.5°	42.2	35.6	31.1	28.9	26.7	33.3	44.4	62.2	86.7	97.8
33.3	15°	28.9	22.2	15.6	13.3	11.1	17.8	28.9	48.9	73.3	86.7
17.8	17.5°	15.6	6.7	2.2	0.0	0.0	4.4	13.3	35.6	60.0	71.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	44.4	55.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	26.7	37.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	20.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
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	6.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	17.8
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°
128.9	0°	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9	128.9
153.3	2.5°	157.8	155.6	151.1	146.7	146.7	146.7	153.3	160.0	166.7	166.7
137.8	5°	146.7	146.7	144.5	140.0	140.0	142.2	151.1	162.2	171.1	173.3
126.7	7.5°	135.6	140.0	135.6	133.3	135.6	137.8	146.7	160.0	173.3	177.8
117.8	10°	128.9	131.1	131.1	128.9	128.9	133.3	142.2	160.0	177.8	184.5
106.7	12.5°	120.0	124.5	122.2	122.2	122.2	126.7	137.8	157.8	182.2	191.1
95.6	15°	111.1	117.8	117.8	115.6	115.6	117.8	133.3	155.6	188.9	204.5
82.2	17.5°	102.2	108.9	111.1	106.7	106.7	111.1	126.7	155.6	193.4	220.0
66.7	20°	84.5	95.6	102.2	95.6	95.6	100.0	115.6	146.7	195.6	235.6
48.9	22.5°	66.7	77.8	86.7	84.5	84.5	86.7	106.7	140.0	197.8	262.2
28.9	25°	48.9	60.0	66.7	71.1	71.1	77.8	97.8	135.6	206.7	317.8
13.3	27.5°	28.9	42.2	51.1	55.6	57.8	66.7	91.1	131.1	222.2	397.8
0.0	30°	13.3	24.4	35.6	44.4	44.4	60.0	84.5	126.7	242.2	513.4
0.0	32.5°	0.0	11.1	17.8	31.1	33.3	48.9	77.8	122.2	271.1	624.5
0.0	35°	0.0	0.0	8.9	24.4	24.4	40.0	71.1	117.8	315.6	709.0
0.0	37.5°	0.0	0.0	0.0	17.8	20.0	35.6	68.9	115.6	324.5	715.6
0.0	40°	0.0	0.0	0.0	13.3	15.6	33.3	68.9	117.8	293.4	700.1
0.0	42.5°	0.0	0.0	0.0	8.9	11.1	33.3	68.9	122.2	264.5	717.8
0.0	45°	0.0	0.0	0.0	6.7	8.9	35.6	66.7	120.0	248.9	811.2
0.0	47.5°	0.0	0.0	0.0	8.9	13.3	35.6	64.5	117.8	251.1	1120.1
0.0	50°	0.0	0.0	0.0	11.1	15.6	35.6	66.7	113.3	275.6	1722.4
0.0	52.5°	0.0	0.0	0.0	8.9	13.3	40.0	73.3	111.1	300.0	2240.2
0.0	55°	0.0	0.0	0.0	2.2	6.7	51.1	80.0	111.1	337.8	2369.1
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	57.8	91.1	117.8	400.0	2318.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	57.8	93.3	117.8	404.5	2273.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	57.8	102.2	131.1	435.6	2024.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	48.9	122.2	164.5	453.4	1591.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	40.0	144.5	180.0	466.7	1266.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	37.8	148.9	182.2	473.4	1009.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	40.0	146.7	195.6	495.6	820.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	44.4	133.3	215.6	495.6	726.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	46.7	124.5	242.2	451.2	628.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	44.4	122.2	282.2	402.3	517.8
0.0	80°	4.4	6.7	6.7	4.4	4.4	37.8	120.0	286.7	342.3	355.6
2.2	82.5°	13.3	17.8	15.6	11.1	11.1	33.3	106.7	240.0	177.8	153.3
13.3	85°	24.4	28.9	28.9	24.4	24.4	31.1	66.7	86.7	60.0	48.9
24.4	87.5°	33.3	37.8	37.8	33.3	33.3	31.1	28.9	26.7	24.4	24.4
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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

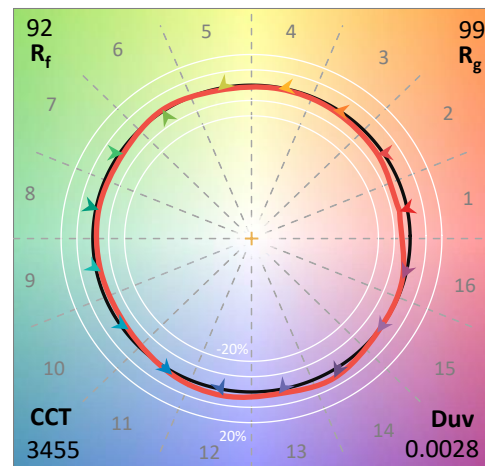
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

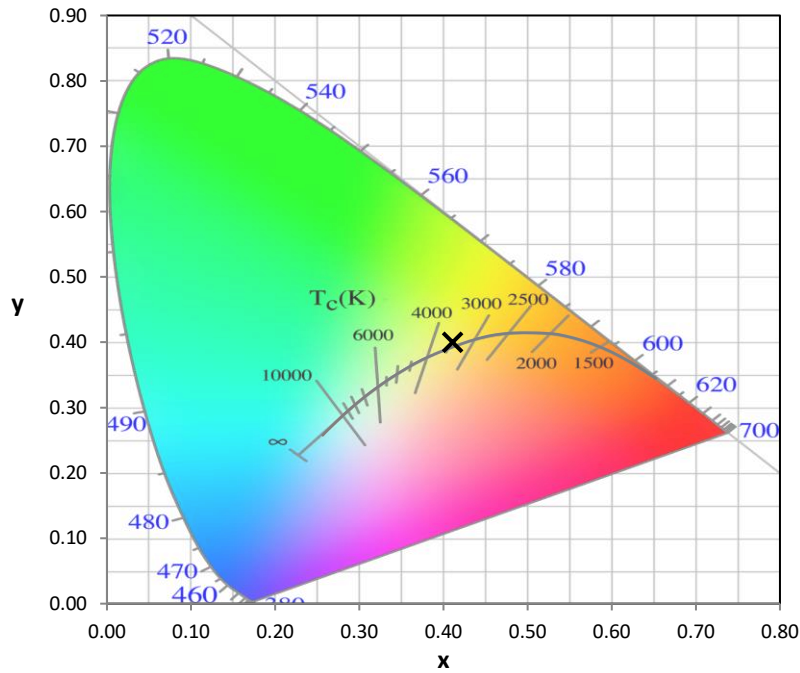
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

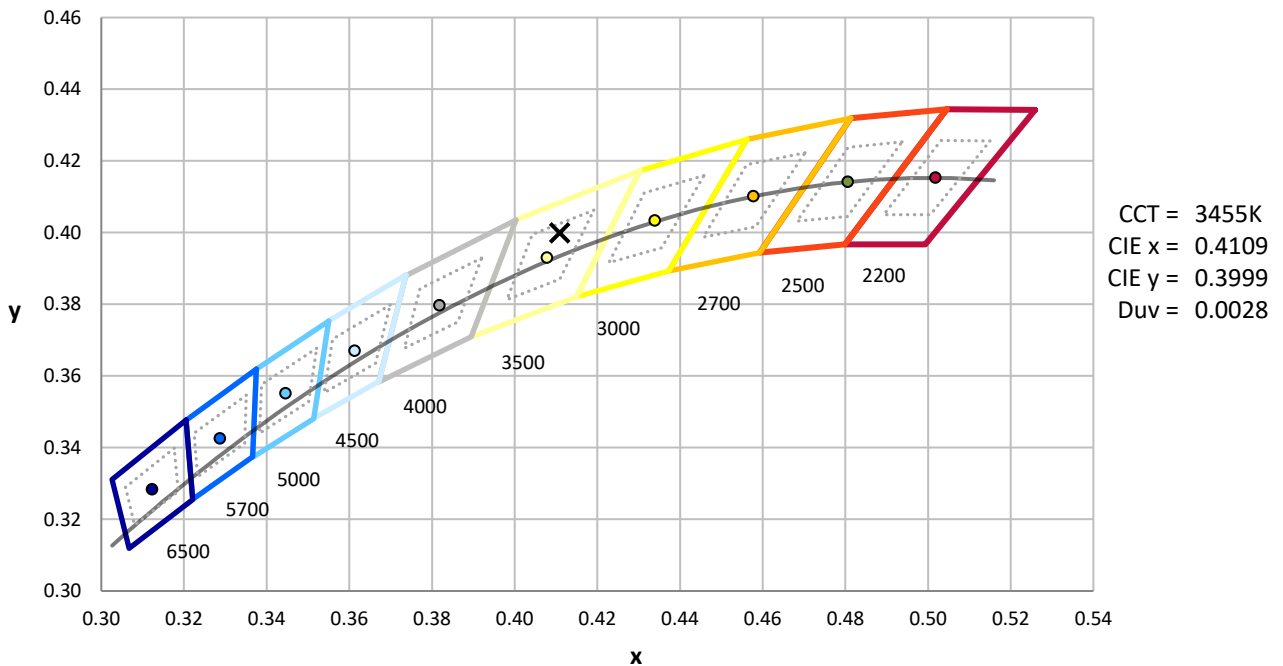
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram

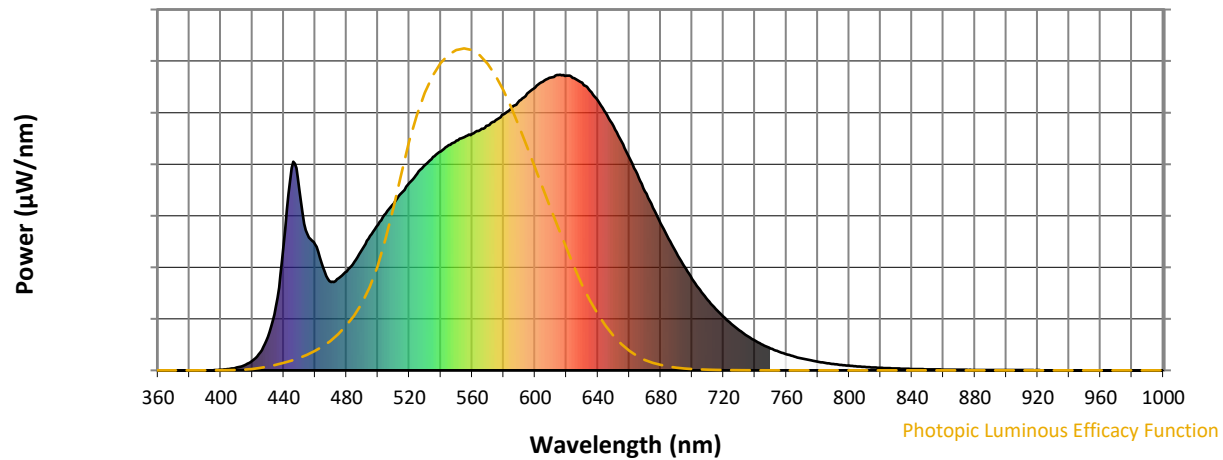


CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

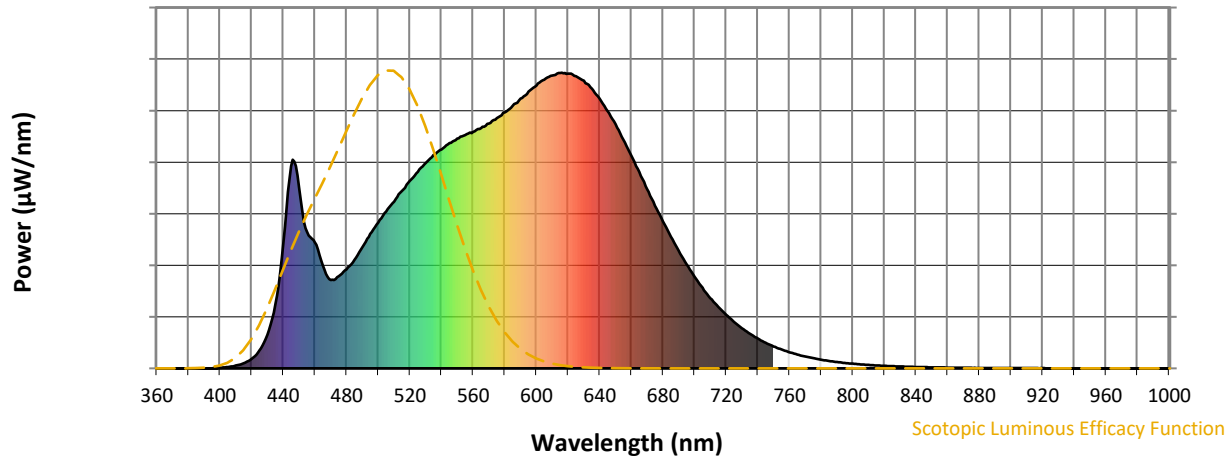
REPORT NUMBER: SP1-2407-184-15

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

Scotopic Flux vs. Wavelength



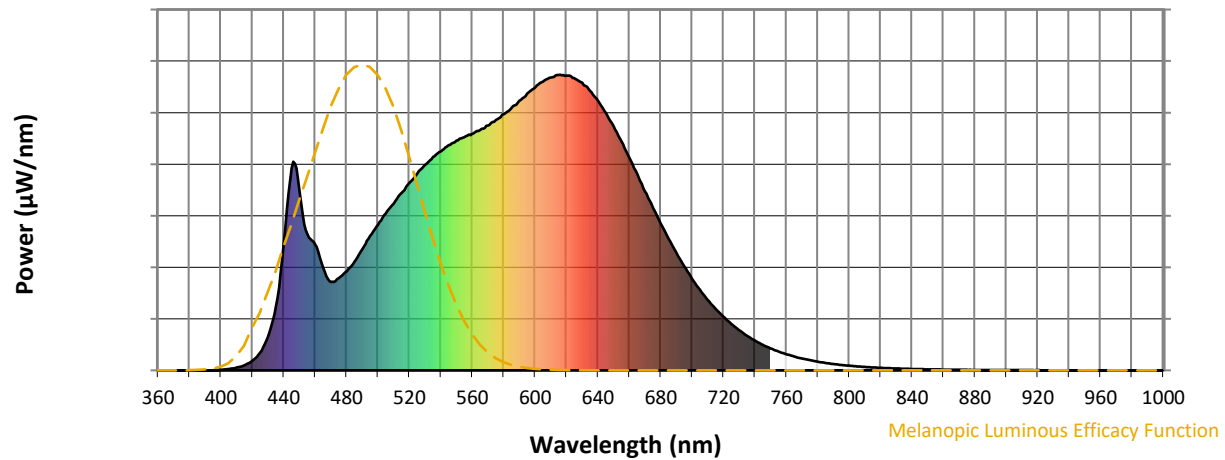
Scotopic Lumens: NR

S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

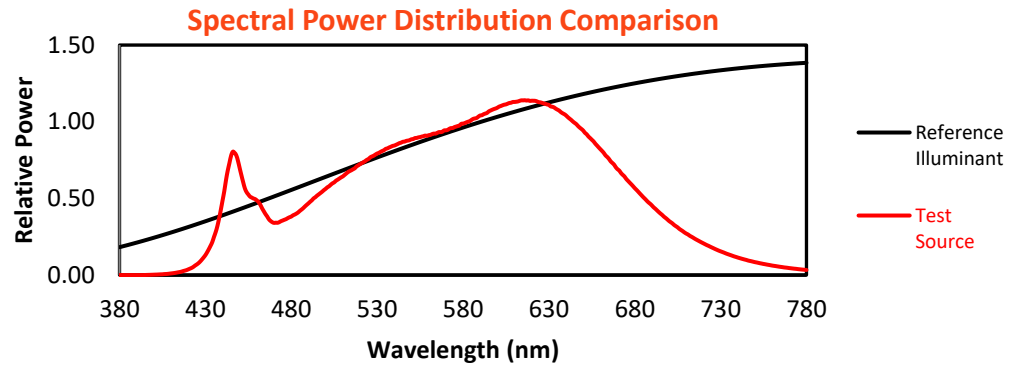
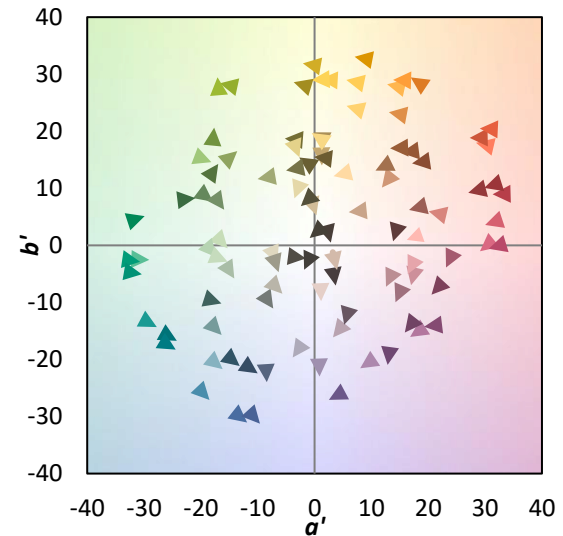
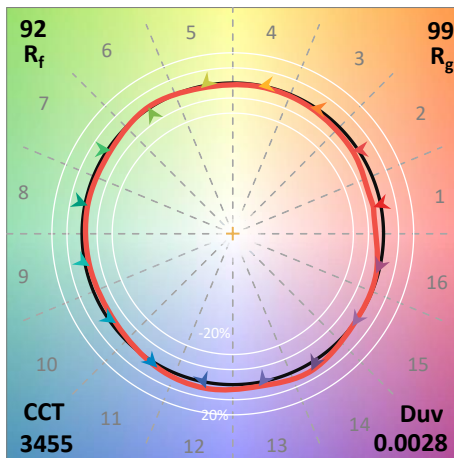
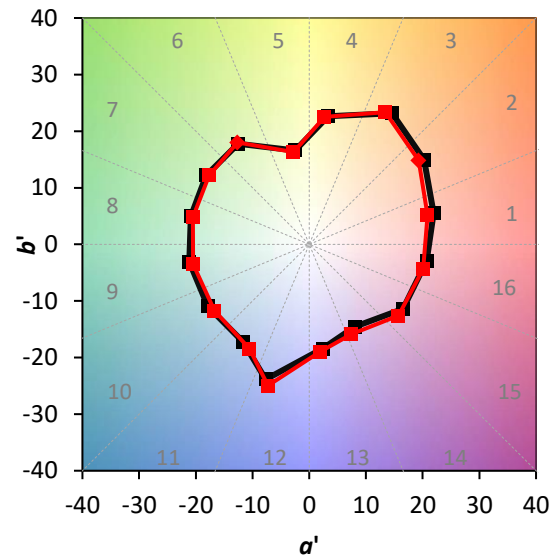
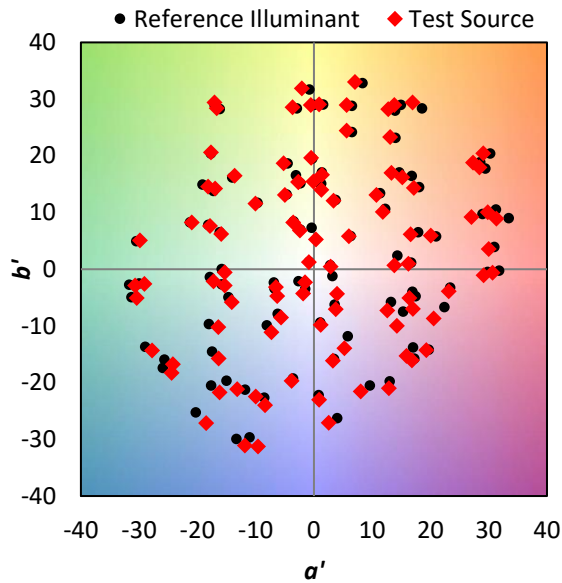
REPORT NUMBER: SP1-2407-184-15

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.14

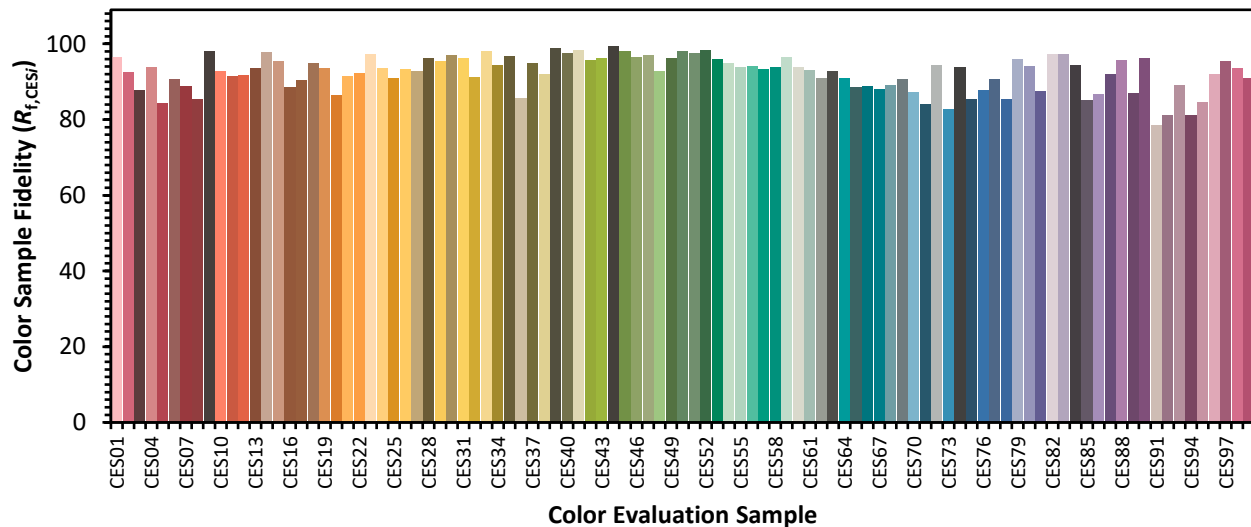
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

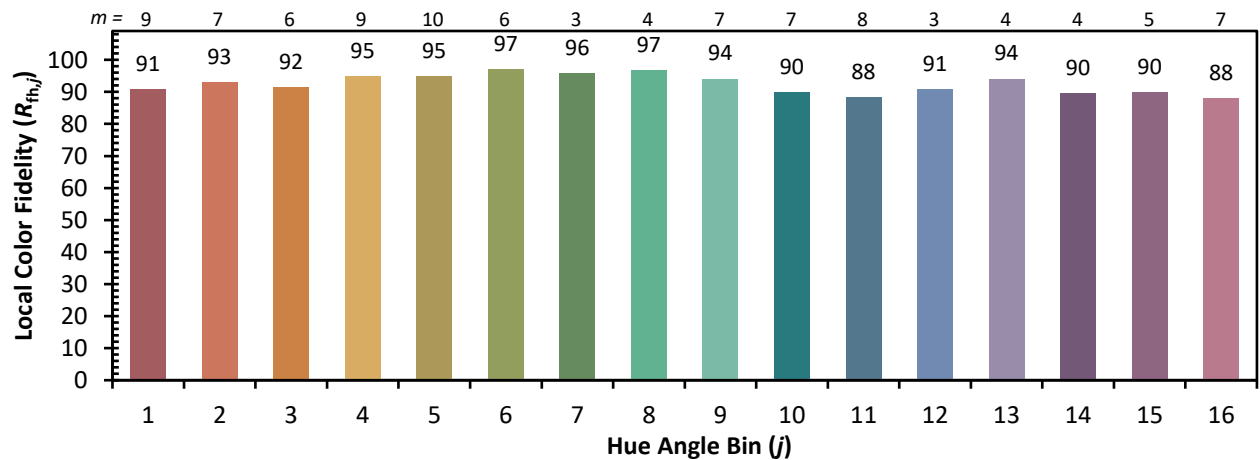
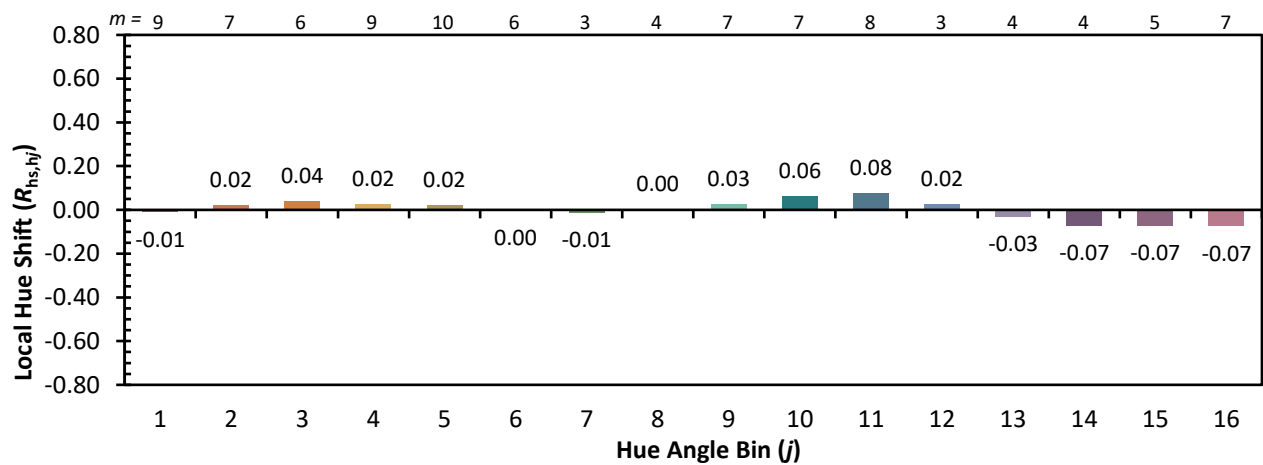
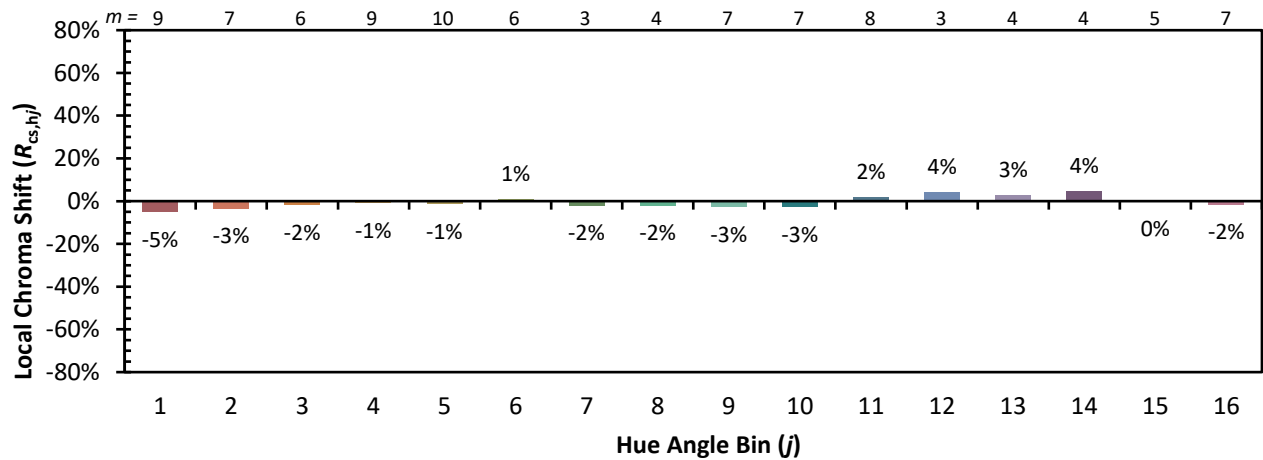
TM-30-18
Summary
 $R_f = 92.3$
 $R_g = 98.5$
 CIE $R_a = 92.2$
 $R_9 = 59.8$

Color Vector Graphics


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

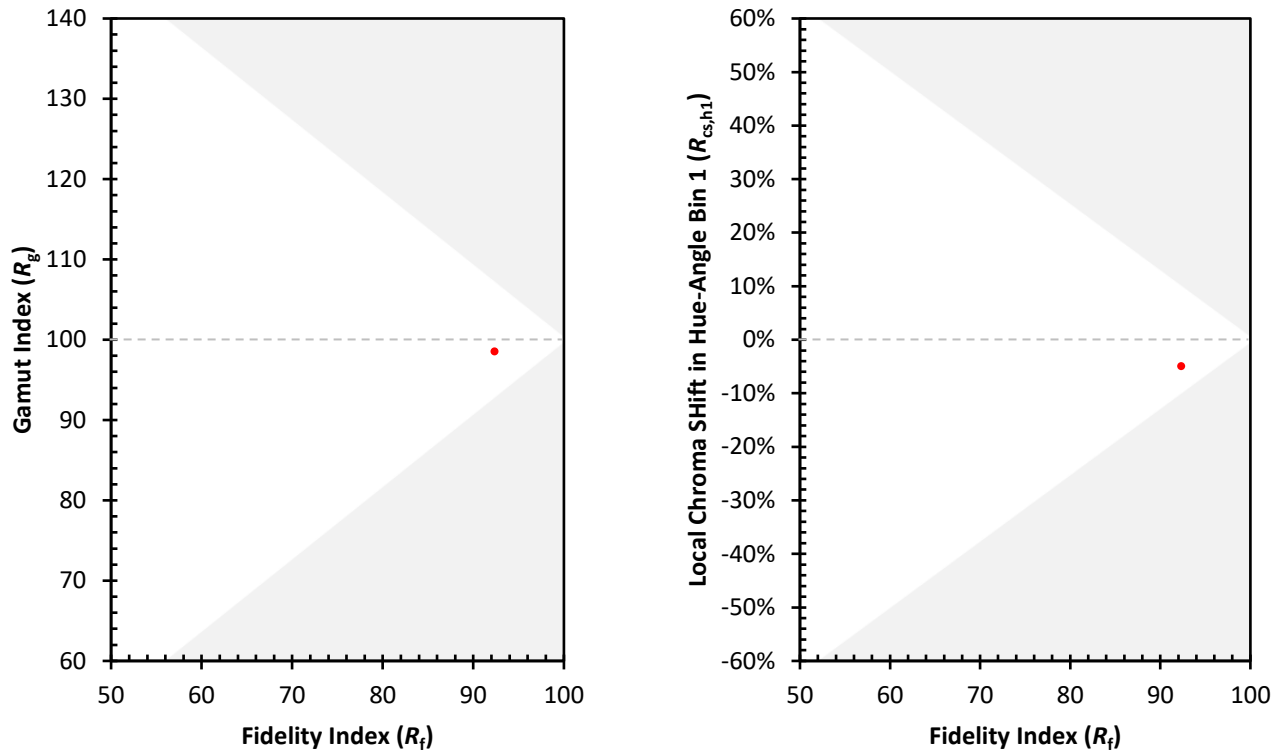
CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)