

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: P1049603

Luminaire Tested: **GALN-SA9C-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049603
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 9xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43689.2 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G5

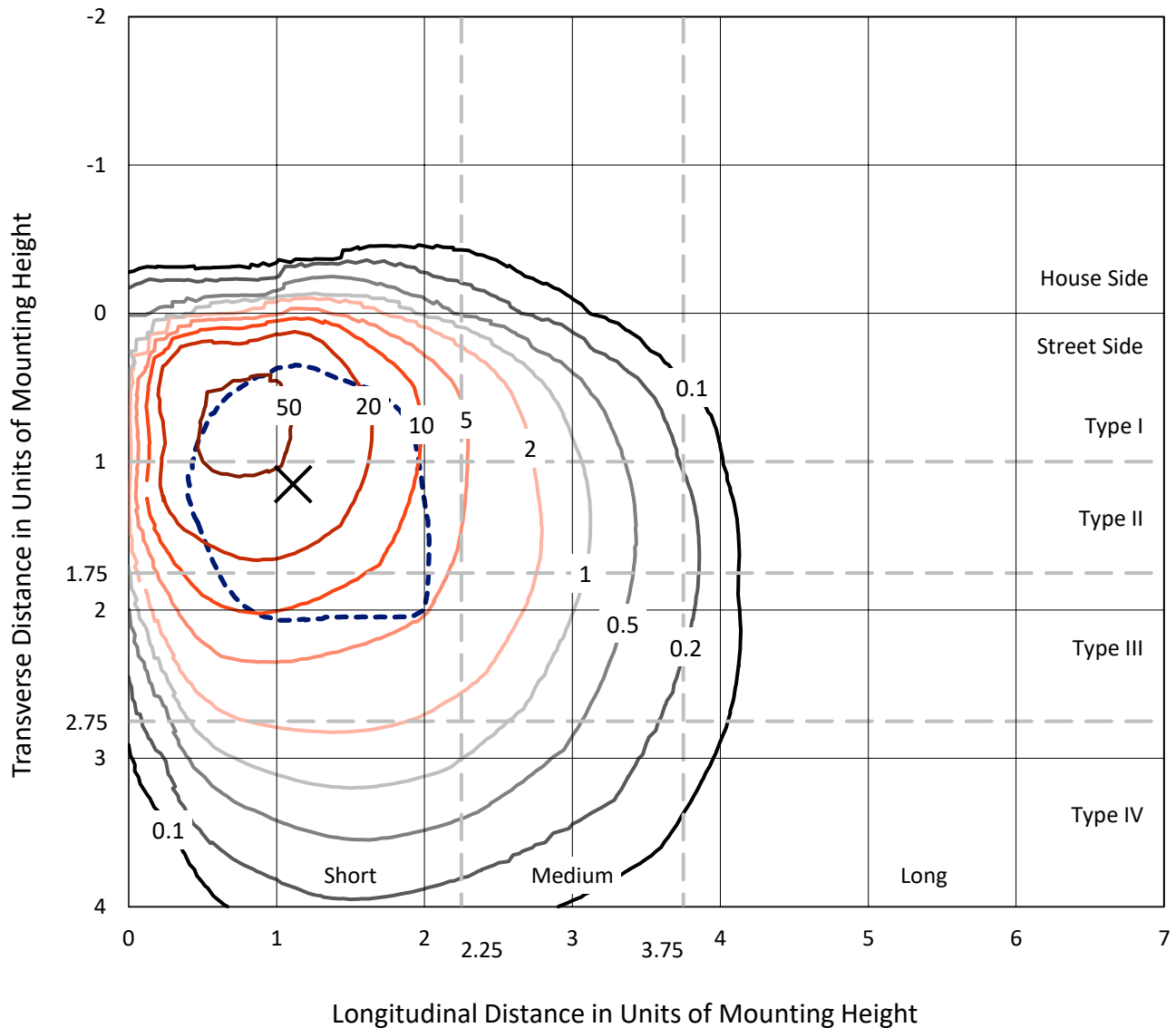
Input Watts (W): 417.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

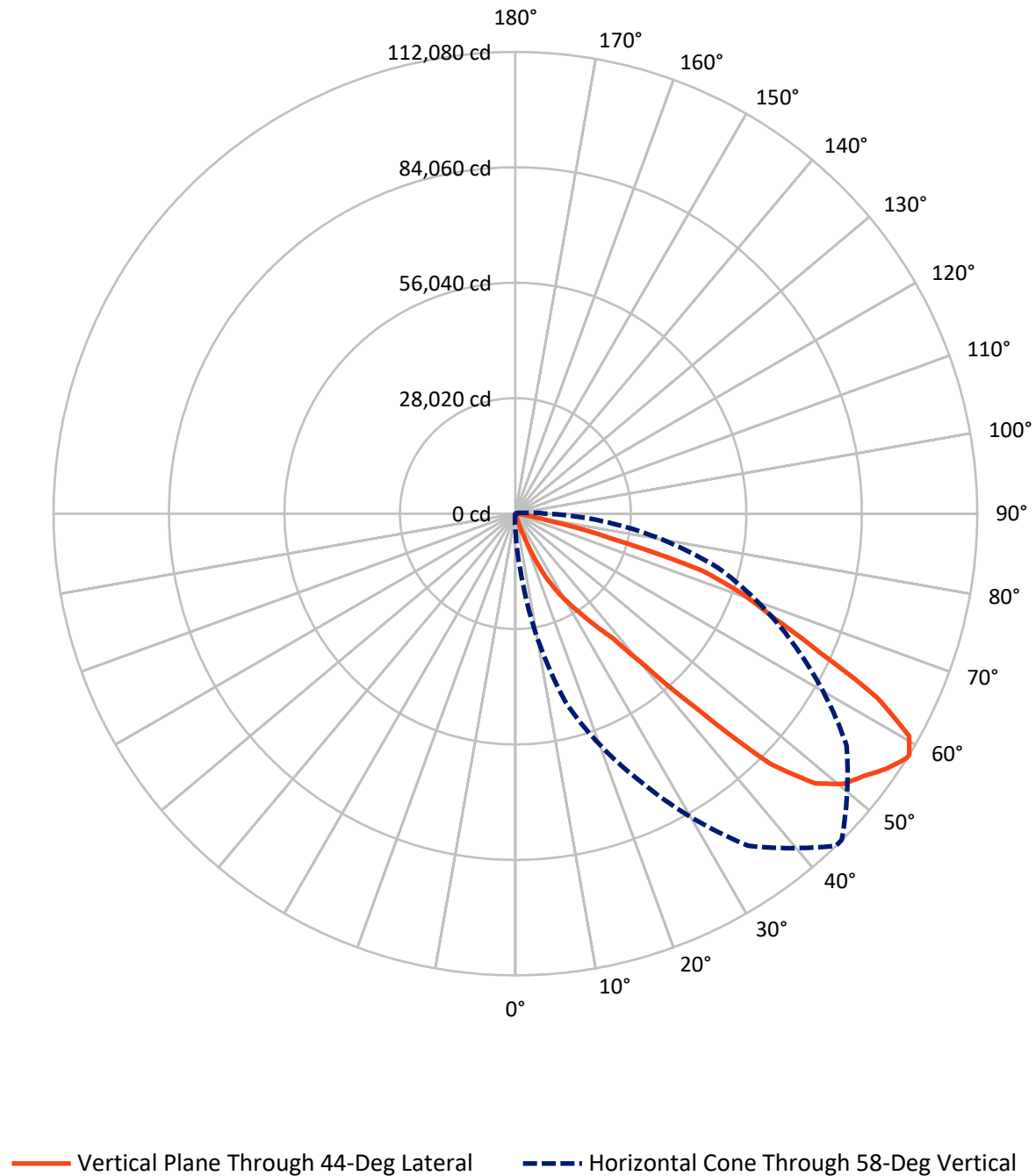
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 76.1 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	298.3	0.0	298.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	43390.9	0.0	43390.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	43689.2	0.0	43689.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.0
10°-20°	95.8	0.2
20°-30°	1035.0	2.4
30°-40°	3060.9	7.0
40°-50°	9123.0	20.9
50°-60°	14476.0	33.1
60°-70°	12074.7	27.6
70°-80°	3724.0	8.5
80°-90°	82.7	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°	43689.2	100.0
0°-180°	43689.2	100.0



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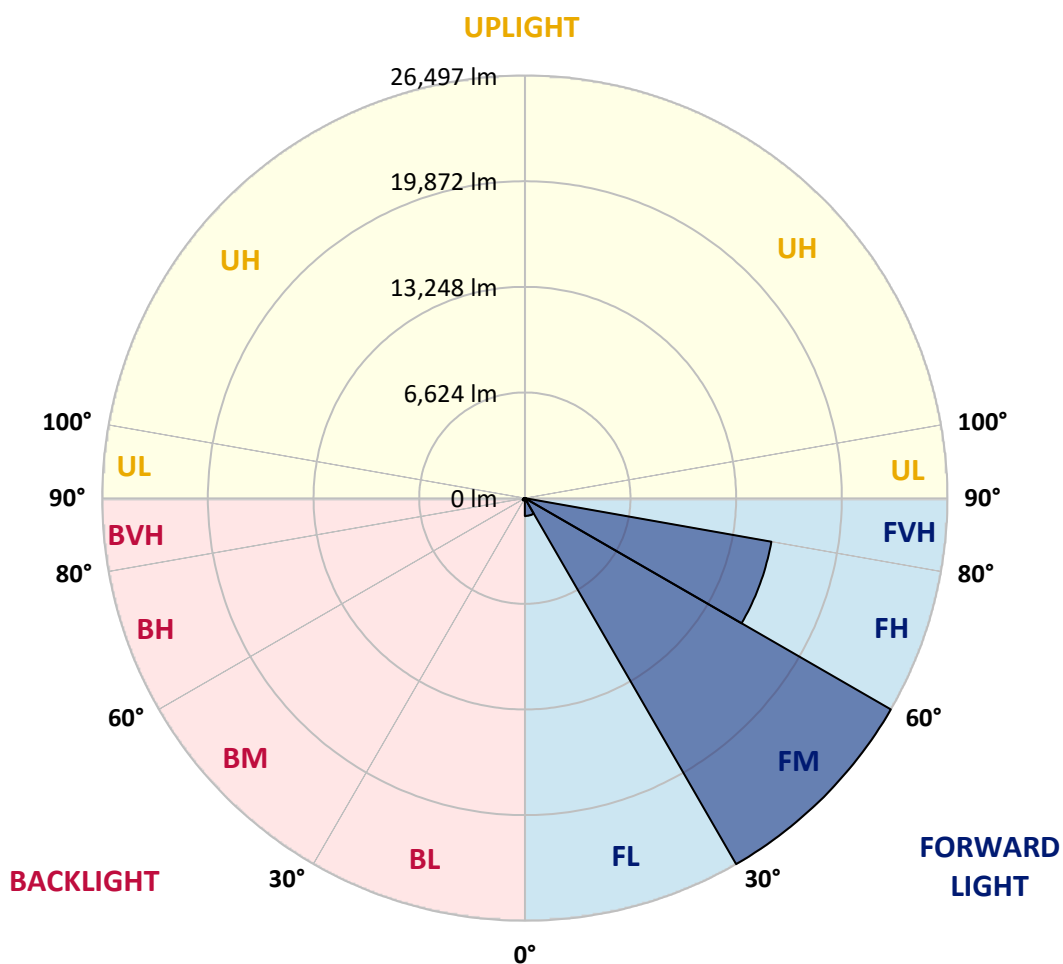
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.7	2.6			
FM	(30°-60°)	26496.6	60.6			
FH	(60°-80°)	15696.9	35.9			G5
FVH	(80°-90°)	78.7	0.2			G1/100
BL	(0°-30°)	29.2	0.1	B0/110		
BM	(30°-60°)	163.3	0.4	B0/220		
BH	(60°-80°)	101.8	0.2	B0/110		G0/110
BVH	(80°-90°)	4.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4
2.5°	247.5	247.5	237.6	224.4	211.2	198.0	194.7	188.1	184.8	181.5
5°	257.4	257.4	254.1	244.2	231.0	221.1	221.1	211.2	204.6	198.0
7.5°	264.0	267.3	273.9	270.6	264.0	254.1	254.1	247.5	237.6	221.1
10°	273.9	283.8	297.0	303.6	306.9	306.9	303.6	300.3	283.8	260.7
12.5°	283.8	303.6	336.6	369.6	389.4	415.8	412.5	405.9	363.0	313.5
15°	303.6	333.3	402.6	498.4	646.9	739.3	775.6	742.6	600.7	422.4
17.5°	326.7	376.2	584.2	1042.9	1709.6	2026.4	2217.8	2062.7	1366.3	802.0
20°	349.8	458.7	1085.8	2703.0	4435.7	5472.0	5759.1	5310.3	3409.3	1528.1
22.5°	389.4	643.6	2201.3	5587.5	9557.8	11112.3	11406.0	9970.4	6439.0	3016.5
25°	472.0	934.0	3795.4	9105.7	14264.1	16887.9	16765.8	14884.6	10445.6	4818.5
27.5°	590.8	1359.7	5739.3	12937.4	18772.4	21086.0	21363.2	19036.4	13924.2	7085.9
30°	762.4	1884.5	7825.1	16006.7	22386.3	24888.0	24934.2	22528.2	17036.4	9076.0
32.5°	927.4	2379.6	9650.2	18973.7	25947.4	28690.0	28894.6	25934.2	19359.9	11148.6
35°	1052.8	2703.0	11498.4	21581.0	29538.2	33317.1	33303.9	29789.0	22112.4	13000.1
37.5°	1062.7	3026.4	13171.7	24247.7	34086.0	38317.1	38736.2	34861.6	25439.1	15290.5
40°	1039.6	3389.5	15290.5	28406.1	42280.8	48772.6	49142.2	44257.7	32112.4	19211.4
42.5°	1066.0	4019.8	18729.5	36086.1	55888.2	65211.7	65924.5	60789.2	44379.8	27211.4
45°	1204.6	5204.7	25934.2	48934.3	75284.3	86650.8	86413.1	79017.0	58653.9	39389.7
47.5°	1663.4	8105.7	36614.1	61439.4	87680.5	97802.6	98007.3	88967.6	66984.0	48752.8
50°	2557.8	12402.7	45587.8	68050.0	93010.5	103165.7	102974.3	92528.7	70149.0	53363.4
52.5°	3326.8	15511.7	50089.4	70370.1	93693.7	105815.9	105802.7	93466.0	70640.7	53759.4
55°	3518.2	15746.0	50125.8	70495.5	95225.1	109284.6	109720.2	95772.9	71277.7	52030.1
57.5°	3442.3	13940.7	48033.3	71221.6	97951.2	111967.8	111990.9	98007.3	72894.9	50970.6
58°	3376.3	13656.9	47610.9	71634.1	98419.8	112080.0	112023.9	98109.6	74211.7	50931.0
60°	3006.6	11858.2	45964.0	72687.0	97723.4	109776.3	109251.6	95875.2	74017.0	50525.1
62.5°	2363.1	9250.9	44343.5	71469.1	90258.0	98624.4	98842.3	84881.8	67475.7	48158.7
65°	1881.2	6894.4	40964.0	62690.2	74323.9	80990.6	81802.5	69023.6	56320.5	40779.2
67.5°	1498.4	4983.5	34363.3	49911.2	58812.3	67594.5	68185.3	57950.9	43634.0	31244.4
70°	1217.8	3369.7	23719.6	36501.9	48508.6	58383.2	58419.5	48142.2	32567.9	20472.1
72.5°	1079.2	2333.3	13769.1	26620.6	39333.6	47574.6	46614.2	39066.3	25029.9	12125.5
75°	934.0	1547.9	6752.5	16274.0	23848.3	24010.1	24376.4	18122.2	12511.6	5765.7
77.5°	769.0	1099.0	2660.1	4445.6	7151.9	9155.2	9495.1	7194.8	4161.7	1419.2
80°	528.1	521.5	716.2	1363.0	2046.2	2564.4	2392.8	1851.5	1089.1	544.6
82.5°	227.7	247.5	323.4	389.4	316.8	306.9	293.7	188.1	145.2	112.2
85°	72.6	66.0	69.3	69.3	56.1	42.9	42.9	19.8	0.0	0.0
87.5°	36.3	29.7	29.7	26.4	16.5	6.6	3.3	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°
191.4	0°	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4
178.2	2.5°	174.9	174.9	168.3	161.7	158.4	151.8	148.5	145.2	141.9	138.6
191.4	5°	184.8	181.5	171.6	161.7	151.8	141.9	135.3	128.7	122.1	118.8
211.2	7.5°	201.3	194.7	174.9	158.4	145.2	132.0	125.4	115.5	108.9	99.0
234.3	10°	221.1	207.9	181.5	161.7	141.9	125.4	115.5	105.6	95.7	82.5
267.3	12.5°	247.5	224.4	191.4	158.4	135.3	115.5	105.6	92.4	82.5	72.6
310.2	15°	270.6	240.9	194.7	158.4	128.7	105.6	92.4	79.2	69.3	56.1
389.4	17.5°	303.6	254.1	191.4	148.5	118.8	92.4	79.2	69.3	52.8	33.0
577.6	20°	359.7	264.0	184.8	138.6	102.3	75.9	59.4	46.2	23.1	6.6
868.0	22.5°	448.8	290.4	178.2	125.4	89.1	59.4	39.6	16.5	0.0	0.0
1320.1	25°	620.5	336.6	178.2	118.8	79.2	42.9	13.2	0.0	0.0	0.0
1874.6	27.5°	825.1	399.3	178.2	102.3	62.7	23.1	0.0	0.0	0.0	0.0
2554.5	30°	1033.0	468.7	178.2	89.1	49.5	3.3	0.0	0.0	0.0	0.0
3145.2	32.5°	1231.0	528.1	181.5	75.9	33.0	0.0	0.0	0.0	0.0	0.0
3963.7	35°	1432.4	538.0	178.2	66.0	19.8	0.0	0.0	0.0	0.0	0.0
4967.0	37.5°	1689.8	518.2	168.3	59.4	9.9	0.0	0.0	0.0	0.0	0.0
6534.7	40°	2079.2	528.1	158.4	56.1	3.3	0.0	0.0	0.0	0.0	0.0
9330.1	42.5°	2798.7	571.0	145.2	56.1	0.0	0.0	0.0	0.0	0.0	0.0
14861.5	45°	4838.3	765.7	132.0	59.4	0.0	0.0	0.0	0.0	0.0	0.0
22310.4	47.5°	8003.4	1376.2	128.7	59.4	0.0	0.0	0.0	0.0	0.0	0.0
26874.8	50°	10214.6	1732.7	135.3	62.7	0.0	0.0	0.0	0.0	0.0	0.0
27445.7	52.5°	10198.1	1930.7	141.9	66.0	13.2	0.0	0.0	0.0	0.0	0.0
25297.2	55°	9066.1	1967.0	151.8	72.6	42.9	0.0	0.0	0.0	0.0	0.0
21739.4	57.5°	7577.6	1795.4	174.9	89.1	79.2	0.0	0.0	0.0	0.0	0.0
21181.7	58°	7313.6	1716.2	181.5	92.4	85.8	0.0	0.0	0.0	0.0	0.0
18373.1	60°	5993.4	1399.3	231.0	115.5	115.5	0.0	0.0	0.0	0.0	0.0
15062.8	62.5°	4138.6	1221.1	264.0	148.5	118.8	0.0	0.0	0.0	0.0	0.0
11105.7	65°	2927.4	1102.3	287.1	158.4	95.7	0.0	0.0	0.0	0.0	0.0
7891.1	67.5°	2188.1	1016.5	316.8	161.7	49.5	0.0	0.0	0.0	0.0	0.0
4950.5	70°	1676.6	953.8	389.4	171.6	13.2	0.0	0.0	0.0	0.0	0.0
2950.5	72.5°	1366.3	881.2	472.0	178.2	0.0	0.0	0.0	0.0	0.0	0.0
1769.0	75°	1132.0	795.4	455.4	194.7	0.0	0.0	0.0	0.0	0.0	0.0
943.9	77.5°	752.5	617.2	415.8	194.7	0.0	0.0	0.0	0.0	0.0	0.0
336.6	80°	264.0	244.2	323.4	171.6	0.0	0.0	0.0	0.0	0.0	0.0
69.3	82.5°	39.6	33.0	46.2	59.4	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°
191.4	0°	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4
135.3	2.5°	135.3	135.3	132.0	135.3	135.3	141.9	158.4	181.5	207.9	217.8
115.5	5°	112.2	108.9	105.6	105.6	105.6	115.5	128.7	155.1	184.8	198.0
95.7	7.5°	92.4	89.1	85.8	82.5	82.5	89.1	105.6	135.3	165.0	178.2
79.2	10°	75.9	69.3	66.0	62.7	62.7	69.3	85.8	115.5	148.5	161.7
66.0	12.5°	62.7	52.8	46.2	42.9	39.6	49.5	66.0	92.4	128.7	145.2
49.5	15°	42.9	33.0	23.1	19.8	16.5	26.4	42.9	72.6	108.9	128.7
26.4	17.5°	23.1	9.9	3.3	0.0	0.0	6.6	19.8	52.8	89.1	105.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.4	66.0	82.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	39.6	56.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	29.7
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	26.4
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°
191.4	0°	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4
227.7	2.5°	234.3	231.0	224.4	217.8	217.8	217.8	227.7	237.6	247.5	247.5
204.6	5°	217.8	217.8	214.5	207.9	207.9	211.2	224.4	240.9	254.1	257.4
188.1	7.5°	201.3	207.9	201.3	198.0	201.3	204.6	217.8	237.6	257.4	264.0
174.9	10°	191.4	194.7	194.7	191.4	191.4	198.0	211.2	237.6	264.0	273.9
158.4	12.5°	178.2	184.8	181.5	181.5	181.5	188.1	204.6	234.3	270.6	283.8
141.9	15°	165.0	174.9	174.9	171.6	171.6	174.9	198.0	231.0	280.5	303.6
122.1	17.5°	151.8	161.7	165.0	158.4	158.4	165.0	188.1	231.0	287.1	326.7
99.0	20°	125.4	141.9	151.8	141.9	141.9	148.5	171.6	217.8	290.4	349.8
72.6	22.5°	99.0	115.5	128.7	125.4	125.4	128.7	158.4	207.9	293.7	389.4
42.9	25°	72.6	89.1	99.0	105.6	105.6	115.5	145.2	201.3	306.9	472.0
19.8	27.5°	42.9	62.7	75.9	82.5	85.8	99.0	135.3	194.7	330.0	590.8
0.0	30°	19.8	36.3	52.8	66.0	66.0	89.1	125.4	188.1	359.7	762.4
0.0	32.5°	0.0	16.5	26.4	46.2	49.5	72.6	115.5	181.5	402.6	927.4
0.0	35°	0.0	0.0	13.2	36.3	36.3	59.4	105.6	174.9	468.7	1052.8
0.0	37.5°	0.0	0.0	0.0	26.4	29.7	52.8	102.3	171.6	481.9	1062.7
0.0	40°	0.0	0.0	0.0	19.8	23.1	49.5	102.3	174.9	435.6	1039.6
0.0	42.5°	0.0	0.0	0.0	13.2	16.5	49.5	102.3	181.5	392.7	1066.0
0.0	45°	0.0	0.0	0.0	9.9	13.2	52.8	99.0	178.2	369.6	1204.6
0.0	47.5°	0.0	0.0	0.0	13.2	19.8	52.8	95.7	174.9	372.9	1663.4
0.0	50°	0.0	0.0	0.0	16.5	23.1	52.8	99.0	168.3	409.2	2557.8
0.0	52.5°	0.0	0.0	0.0	13.2	19.8	59.4	108.9	165.0	445.5	3326.8
0.0	55°	0.0	0.0	0.0	3.3	9.9	75.9	118.8	165.0	501.7	3518.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	85.8	135.3	174.9	594.1	3442.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	85.8	138.6	174.9	600.7	3376.3
0.0	60°	0.0	0.0	0.0	0.0	0.0	85.8	151.8	194.7	646.9	3006.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	72.6	181.5	244.2	673.3	2363.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	59.4	214.5	267.3	693.1	1881.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	56.1	221.1	270.6	703.0	1498.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	59.4	217.8	290.4	736.0	1217.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	66.0	198.0	320.1	736.0	1079.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	69.3	184.8	359.7	670.0	934.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	66.0	181.5	419.1	597.4	769.0
0.0	80°	6.6	9.9	9.9	6.6	6.6	56.1	178.2	425.7	508.3	528.1
3.3	82.5°	19.8	26.4	23.1	16.5	16.5	49.5	158.4	356.4	264.0	227.7
19.8	85°	36.3	42.9	42.9	36.3	36.3	46.2	99.0	128.7	89.1	72.6
36.3	87.5°	49.5	56.1	56.1	49.5	49.5	46.2	42.9	39.6	36.3	36.3
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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

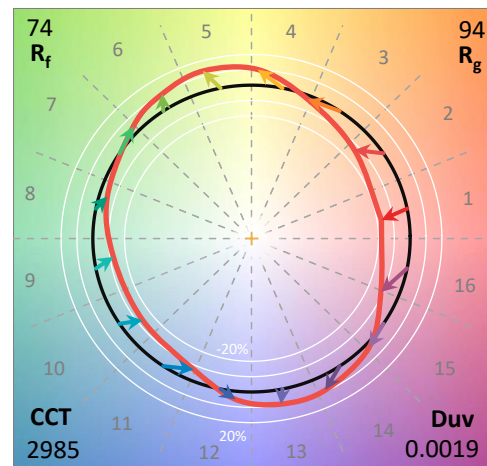
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-4
 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-730-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 3000K CCT 26 LEDS

Spectral Parameters

CCT (K): 2985
 CIE u' : 0.2504
 CIE v' : 0.5243
 Duv: 0.0019
 CIE x: 0.4408
 CIE y: 0.4101
 CIE z: 0.1491
 Peak Wavelength (nm): 595
 Dominant Wavelength (nm): 582
 Purity: 55.41818
 R_f: 73.8
 R_g: 94.4

CRI (Ra): 70.8
 R1: 66.3
 R2: 80.6
 R3: 94.5
 R4: 68.2
 R5: 66.5
 R6: 74.7
 R7: 76.2
 R8: 39.6
 R9: -43.2
 R10: 57.6
 R11: 64.8
 R12: 53.5
 R13: 68.7
 R14: 97.0
 R15: 56.4



Test Conditions

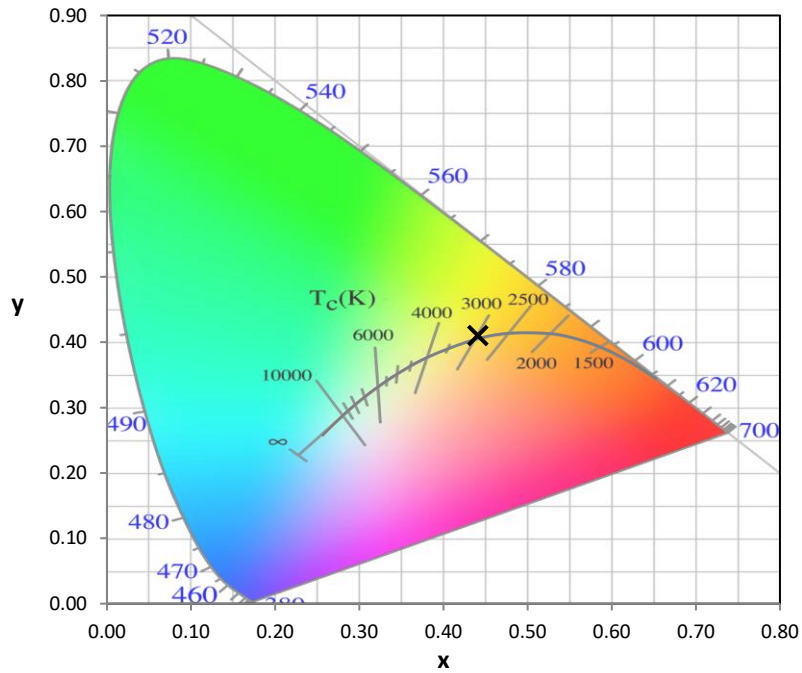
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

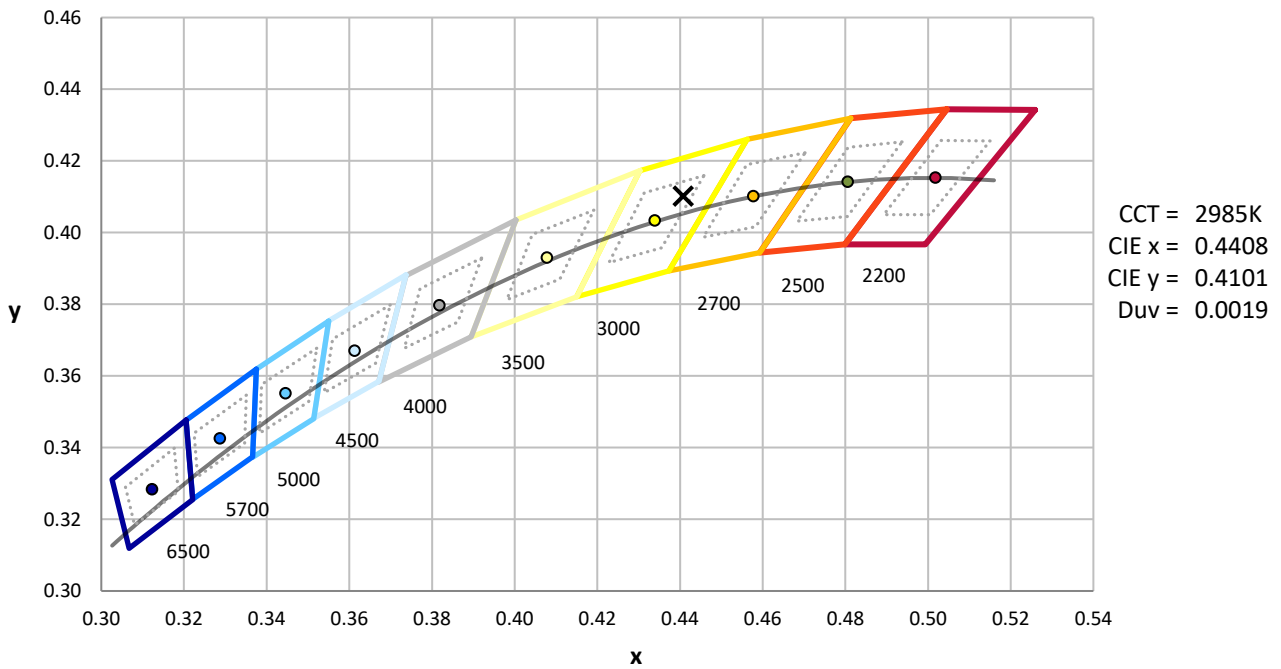
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-4

CIE 1931 Chromaticity Diagram



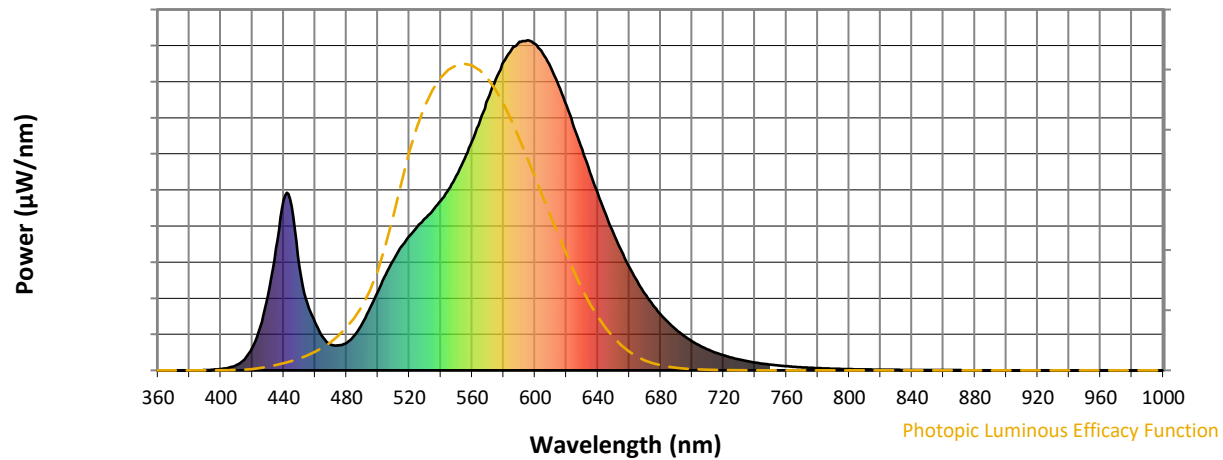
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

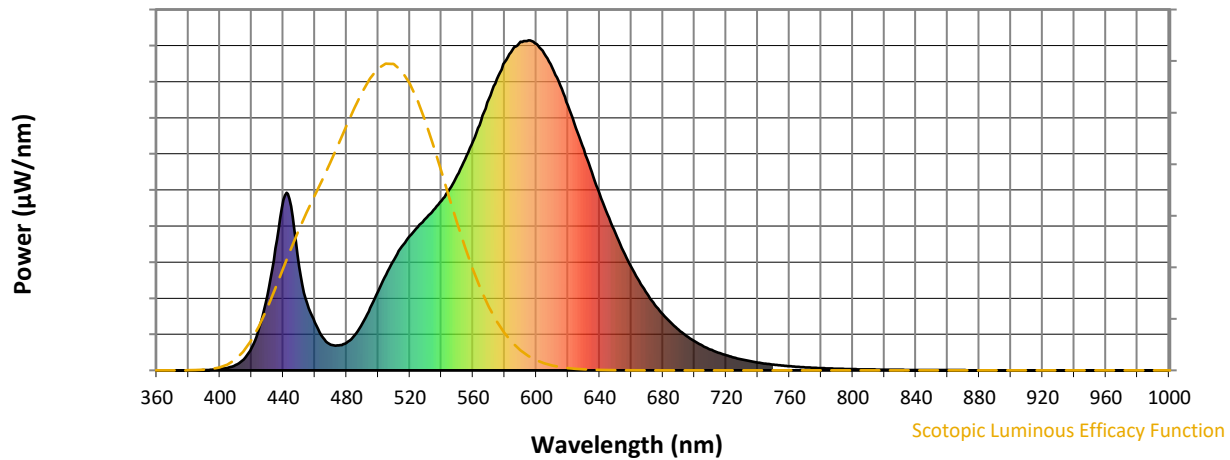


Photopic Lumens: NR

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



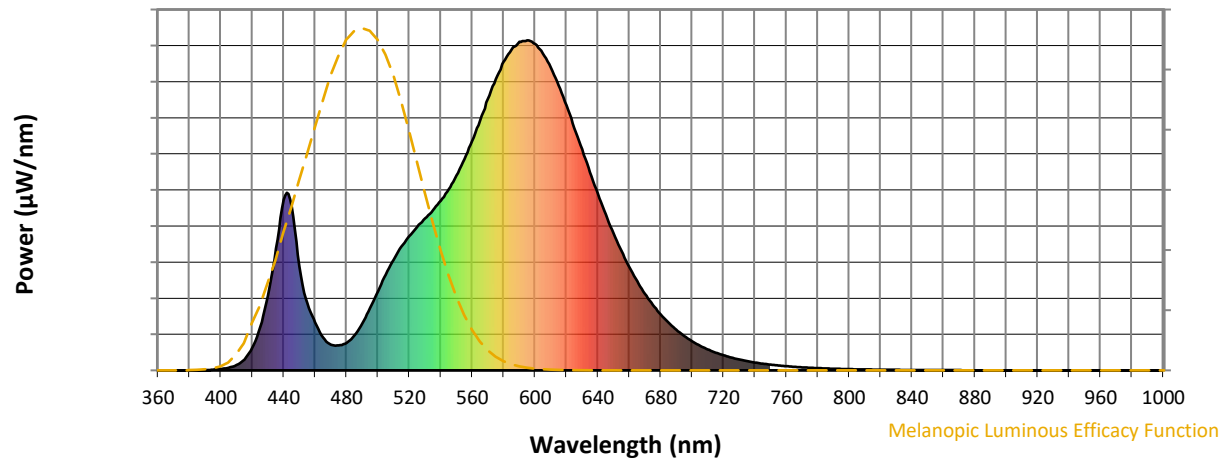
Scotopic Lumens: NR

S/P: 1.19

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	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

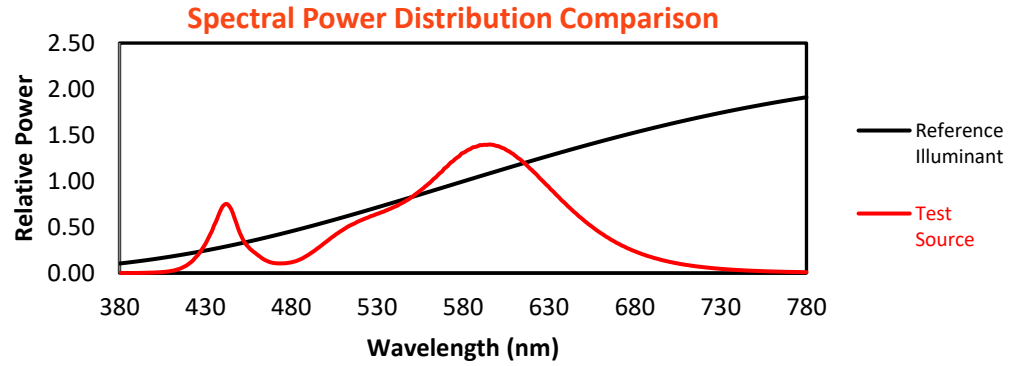
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	NR	750	17	NR	880	0	NR
365	0	NR	495	189	NR	625	734	NR	755	15	NR	885	0	NR
370	0	NR	500	240	NR	630	670	NR	760	13	NR	890	0	NR
375	0	NR	505	290	NR	635	600	NR	765	11	NR	895	0	NR
380	0	NR	510	335	NR	640	535	NR	770	9	NR	900	0	NR
385	0	NR	515	375	NR	645	473	NR	775	8	NR	905	0	NR
390	1	NR	520	408	NR	650	415	NR	780	7	NR	910	0	NR
395	2	NR	525	434	NR	655	362	NR	785	6	NR	915	0	NR
400	4	NR	530	461	NR	660	313	NR	790	5	NR	920	0	NR
405	8	NR	535	486	NR	665	271	NR	795	4	NR	925	0	NR
410	16	NR	540	514	NR	670	231	NR	800	4	NR	930	0	NR
415	33	NR	545	549	NR	675	198	NR	805	3	NR	935	0	NR
420	69	NR	550	591	NR	680	169	NR	810	3	NR	940	0	NR
425	131	NR	555	640	NR	685	144	NR	815	2	NR	945	0	NR
430	227	NR	560	695	NR	690	123	NR	820	2	NR	950	0	NR
435	369	NR	565	757	NR	695	104	NR	825	2	NR	955	0	NR
440	517	NR	570	822	NR	700	88	NR	830	2	NR	960	0	NR
445	498	NR	575	882	NR	705	75	NR	835	1	NR	965	0	NR
450	315	NR	580	935	NR	710	63	NR	840	1	NR	970	0	NR
455	204	NR	585	972	NR	715	54	NR	845	1	NR	975	0	NR
460	145	NR	590	996	NR	720	46	NR	850	1	NR	980	0	NR
465	100	NR	595	1000	NR	725	39	NR	855	1	NR	985	0	NR
470	78	NR	600	989	NR	730	33	NR	860	1	NR	990	0	NR
475	76	NR	605	960	NR	735	28	NR	865	1	NR	995	0	NR
480	83	NR	610	918	NR	740	24	NR	870	1	NR	1000	0	NR
485	105	NR	615	864	NR	745	20	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-4

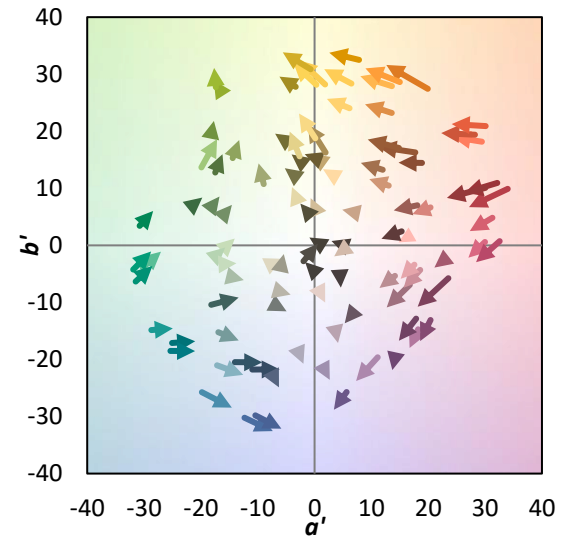
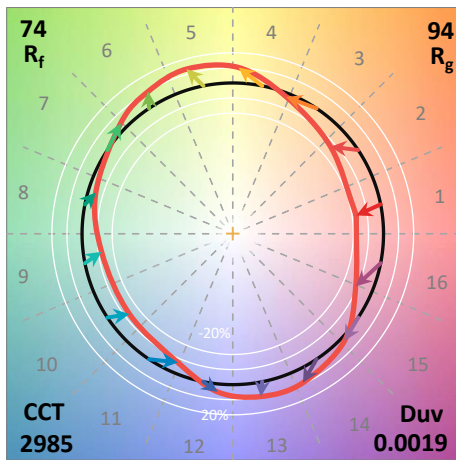
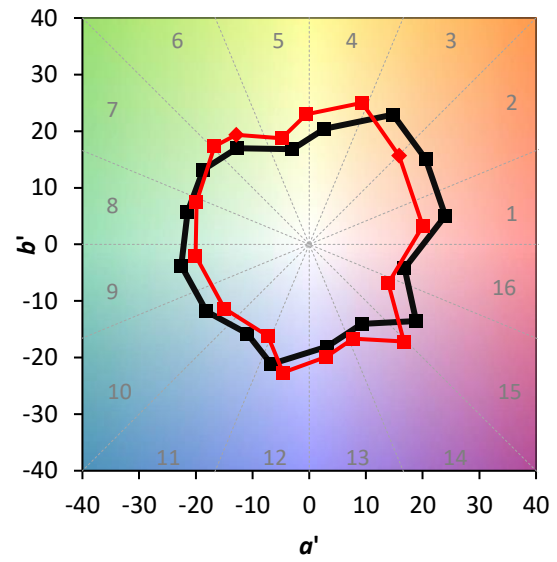
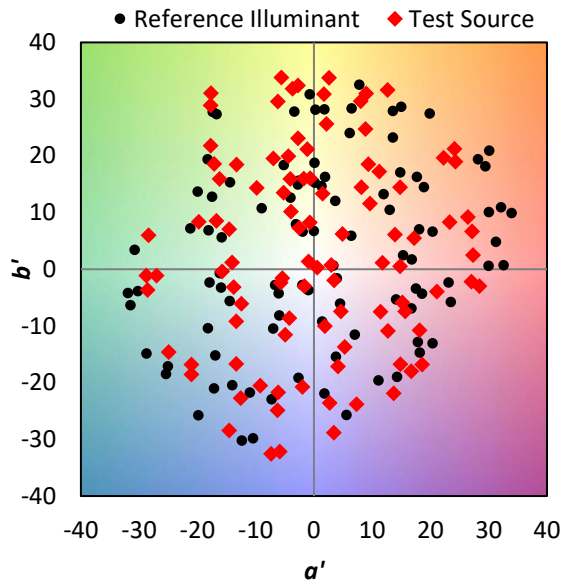
TM-30-18

Summary

$R_f = 73.8$
 $R_g = 94.4$
 $CIE R_a = 70.8$
 $R_g = -43.2$

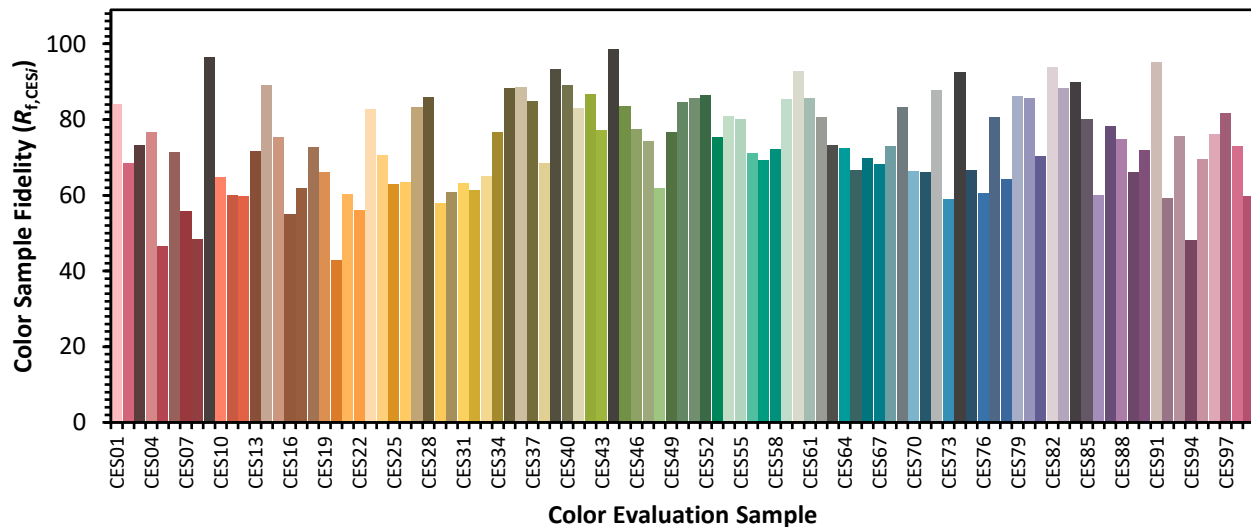


Color Vector Graphics

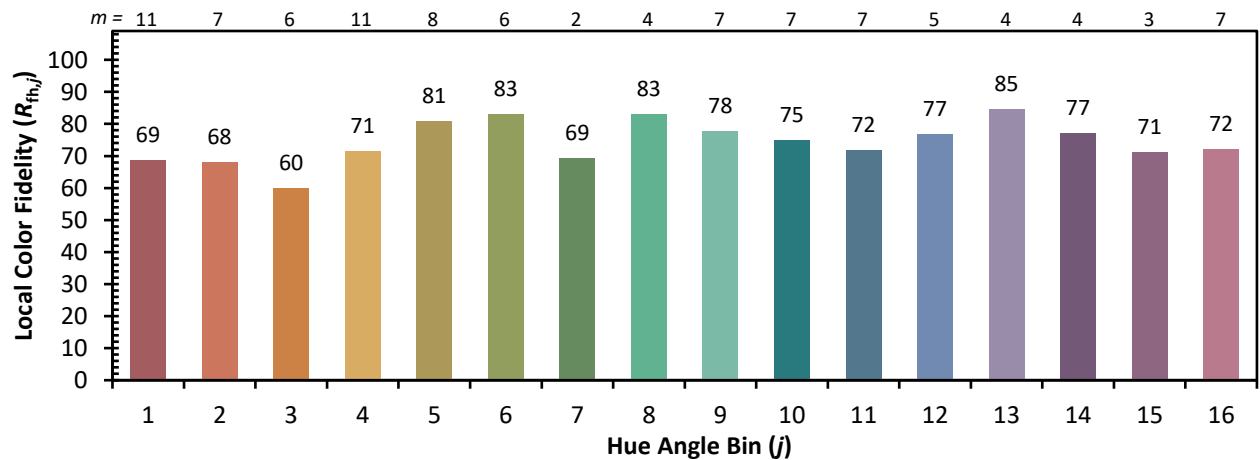
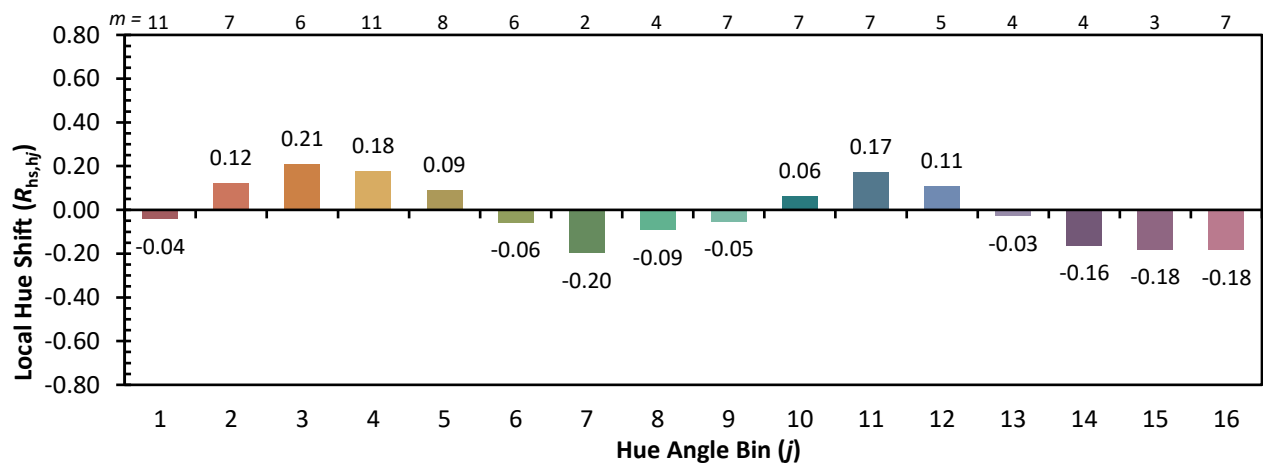
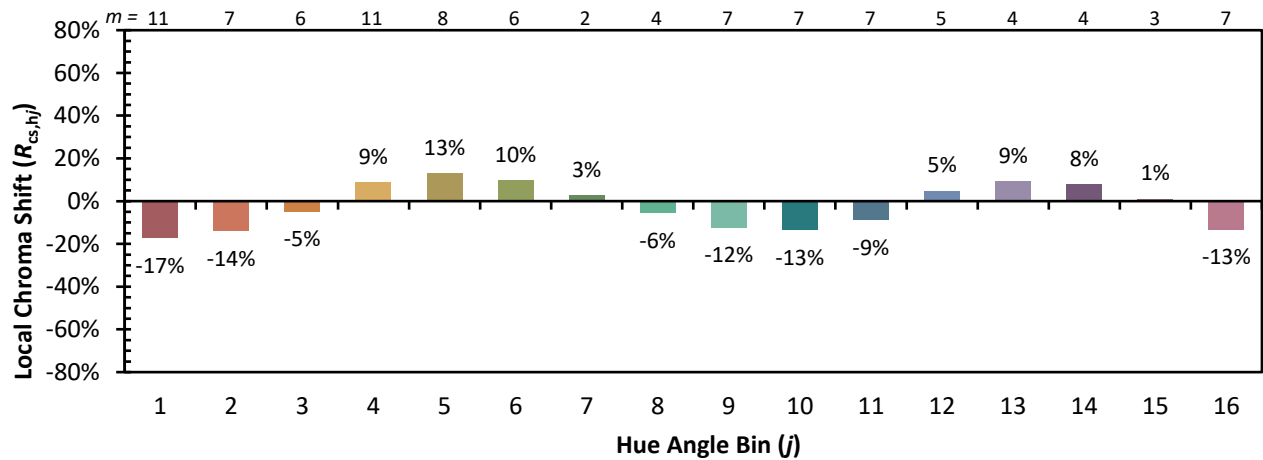


Individual Sample Fidelity Index ($R_{f,i}$)

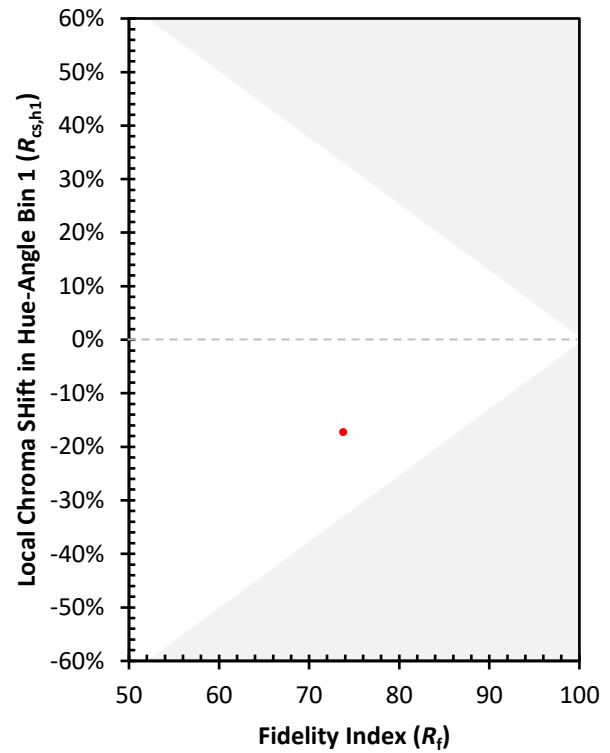
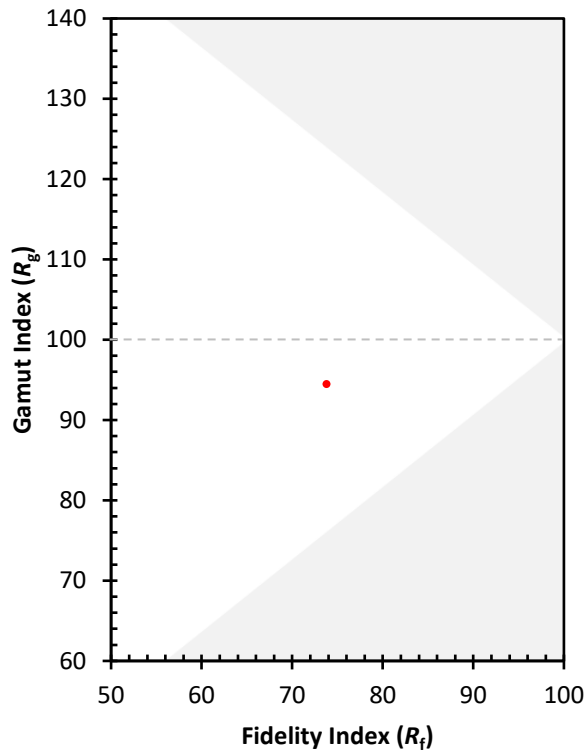
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 94
CES08 = 40	CES33 = 65	CES58 = 72	CES83 = 88
CES09 = 29	CES34 = 77	CES59 = 85	CES84 = 90
CES10 = 76	CES35 = 88	CES60 = 93	CES85 = 80
CES11 = 59	CES36 = 89	CES61 = 86	CES86 = 60
CES12 = 65	CES37 = 85	CES62 = 81	CES87 = 78
CES13 = 43	CES38 = 69	CES63 = 73	CES88 = 75
CES14 = 74	CES39 = 93	CES64 = 72	CES89 = 66
CES15 = 71	CES40 = 89	CES65 = 67	CES90 = 72
CES16 = 47	CES41 = 83	CES66 = 70	CES91 = 95
CES17 = 50	CES42 = 87	CES67 = 68	CES92 = 59
CES18 = 56	CES43 = 77	CES68 = 73	CES93 = 76
CES19 = 73	CES44 = 99	CES69 = 83	CES94 = 48
CES20 = 66	CES45 = 83	CES70 = 66	CES95 = 70
CES21 = 87	CES46 = 77	CES71 = 66	CES96 = 76
CES22 = 79	CES47 = 74	CES72 = 88	CES97 = 82
CES23 = 92	CES48 = 62	CES73 = 59	CES98 = 73
CES24 = 91	CES49 = 77	CES74 = 93	CES99 = 60
CES25 = 73	CES50 = 85	CES75 = 67	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)