

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: P1049659

Luminaire Tested: **GALN-SA5C-750-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049659
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-750-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25365.6 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

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

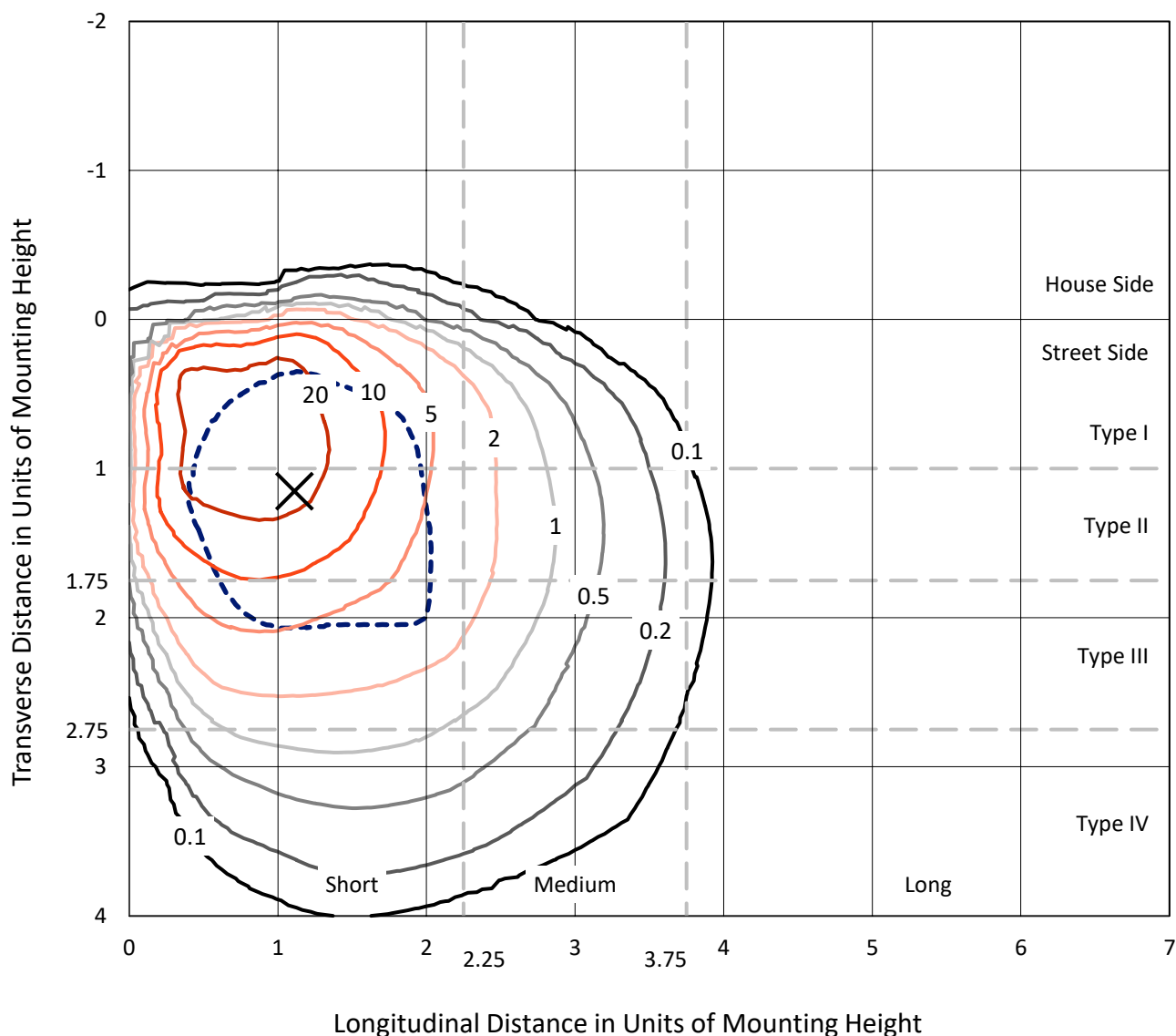
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

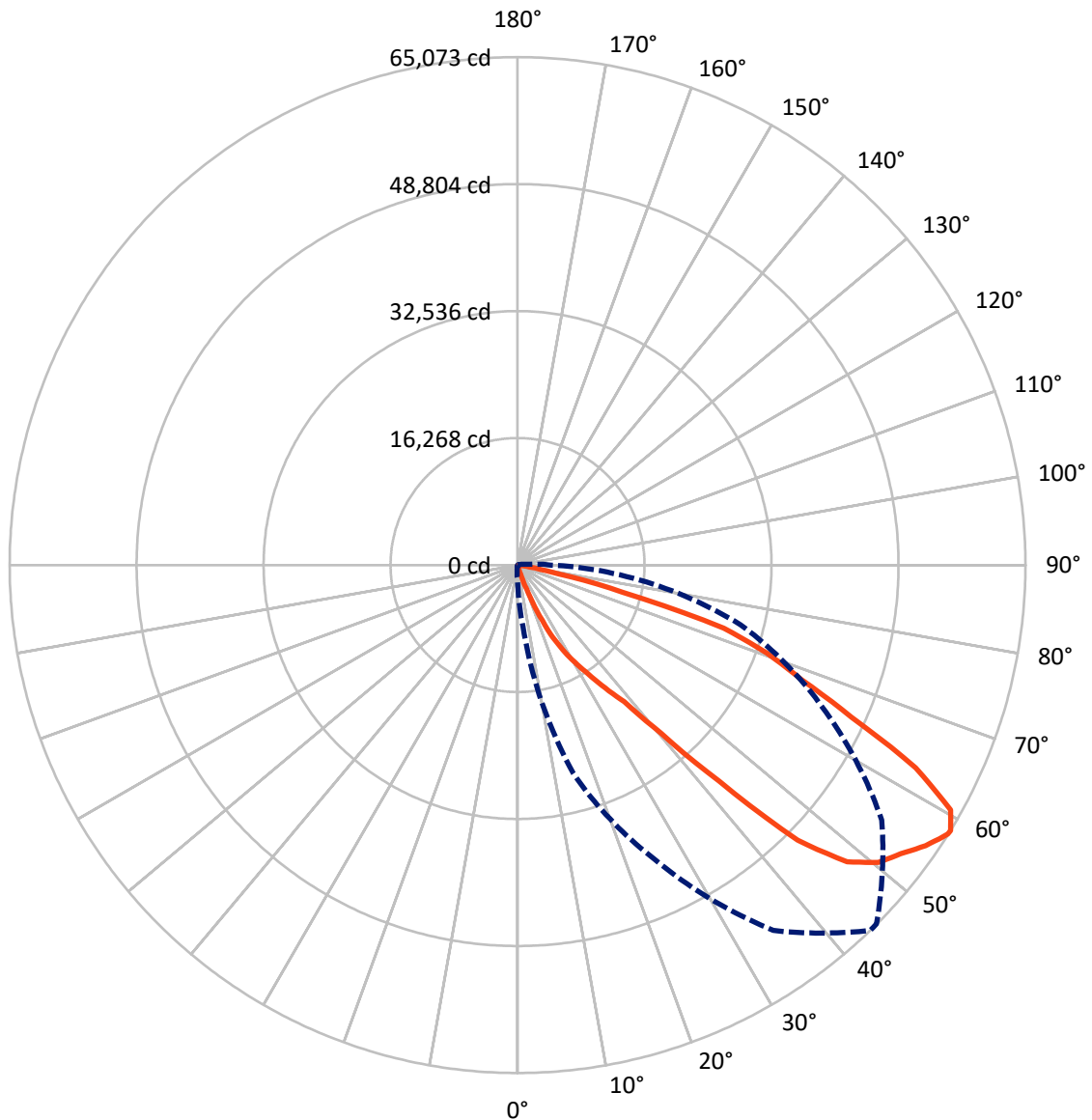


Based on 20 foot mounting height. Maximum calculated value = 44.2 fc

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	173.2	0.0	173.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	25192.4	0.0	25192.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	25365.6	0.0	25365.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	0.0
10°-20°	55.6	0.2
20°-30°	600.9	2.4
30°-40°	1777.1	7.0
40°-50°	5296.7	20.9
50°-60°	8404.6	33.1
60°-70°	7010.5	27.6
70°-80°	2162.1	8.5
80°-90°	48.0	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25365.6	100.0
0°-180°	25365.6	100.0



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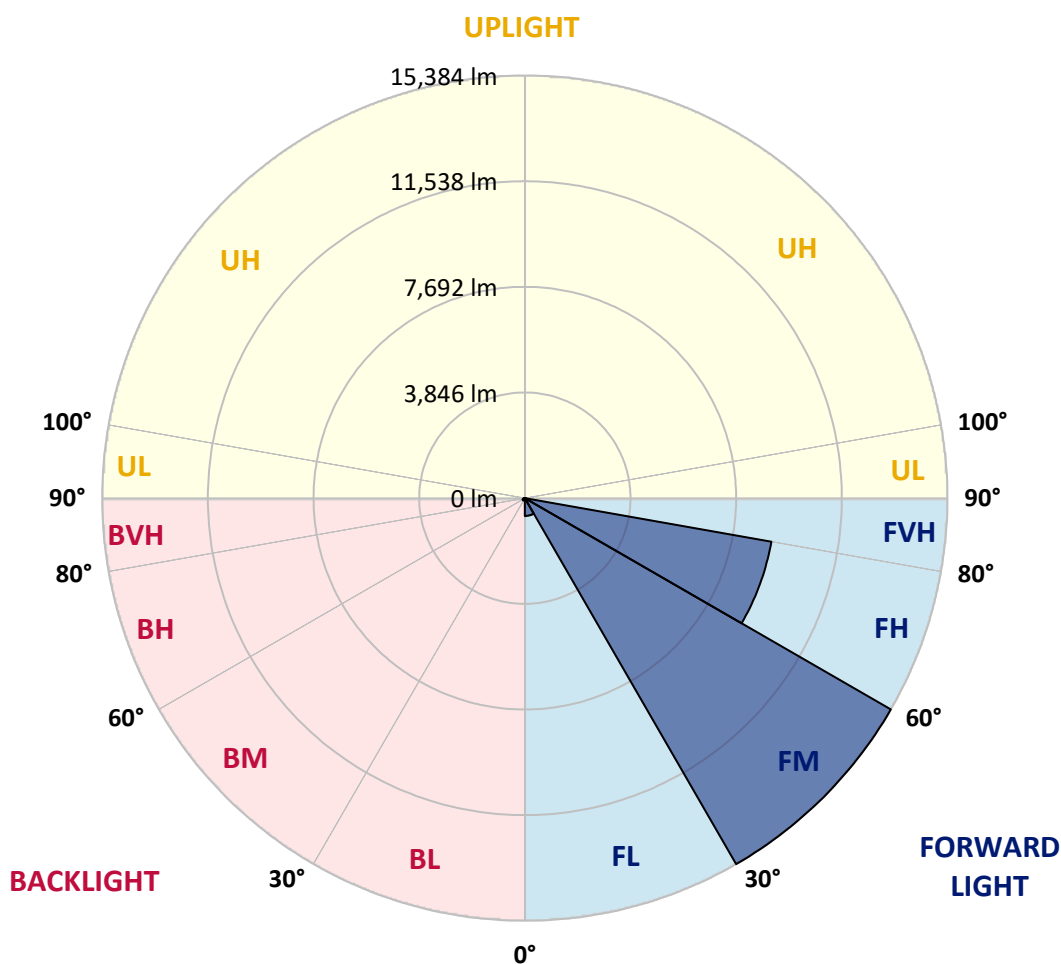
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	649.5	2.6			
FM	(30°-60°)	15383.7	60.6			
FH	(60°-80°)	9113.5	35.9			G4/12000
FVH	(80°-90°)	45.7	0.2			G1/100
BL	(0°-30°)	16.9	0.1	B0/110		
BM	(30°-60°)	94.8	0.4	B0/220		
BH	(60°-80°)	59.1	0.2	B0/110		G0/110
BVH	(80°-90°)	2.3	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°	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1
2.5°	143.7	143.7	138.0	130.3	122.6	115.0	113.1	109.2	107.3	105.4
5°	149.5	149.5	147.5	141.8	134.1	128.4	128.4	122.6	118.8	115.0
7.5°	153.3	155.2	159.0	157.1	153.3	147.5	147.5	143.7	138.0	128.4
10°	159.0	164.8	172.5	176.3	178.2	178.2	176.3	174.4	164.8	151.4
12.5°	164.8	176.3	195.4	214.6	226.1	241.4	239.5	235.7	210.8	182.0
15°	176.3	193.5	233.8	289.3	375.6	429.2	450.3	431.1	348.7	245.3
17.5°	189.7	218.4	339.2	605.5	992.6	1176.5	1287.7	1197.6	793.3	465.6
20°	203.1	266.3	630.4	1569.3	2575.3	3177.0	3343.7	3083.1	1979.4	887.2
22.5°	226.1	373.7	1278.1	3244.1	5549.2	6451.7	6622.2	5788.7	3738.4	1751.4
25°	274.0	542.3	2203.6	5286.7	8281.6	9805.0	9734.1	8641.9	6064.6	2797.6
27.5°	343.0	789.5	3332.2	7511.3	10899.1	12242.3	12403.3	11052.4	8084.3	4114.0
30°	442.6	1094.1	4543.2	9293.4	12997.3	14449.7	14476.6	13079.7	9891.2	5269.4
32.5°	538.4	1381.5	5602.8	11016.0	15064.8	16657.1	16775.9	15057.1	11240.2	6472.8
35°	611.3	1569.3	6675.9	12529.7	17149.6	19343.6	19335.9	17295.2	12838.2	7547.7
37.5°	617.0	1757.1	7647.4	14078.0	19790.1	22246.6	22489.9	20240.3	14769.7	8877.5
40°	603.6	1967.9	8877.5	16492.3	24547.9	28316.9	28531.6	25695.6	18644.2	11153.9
42.5°	618.9	2333.9	10874.2	20951.2	32448.2	37861.3	38275.2	35293.7	25766.5	15798.7
45°	699.4	3021.8	15057.1	28410.8	43709.4	50308.7	50170.7	45876.6	34053.9	22869.3
47.5°	965.7	4706.1	21257.8	35671.1	50906.5	56783.3	56902.1	51653.8	38890.3	28305.4
50°	1485.0	7200.9	26467.9	39509.2	54001.1	59897.1	59786.0	53721.3	40727.9	30982.3
52.5°	1931.5	9005.9	29081.5	40856.3	54397.7	61435.8	61428.1	54265.5	41013.4	31212.3
55°	2042.6	9142.0	29102.6	40929.1	55286.8	63449.6	63702.6	55604.9	41383.2	30208.2
57.5°	1998.5	8093.8	27887.7	41350.6	56869.6	65007.5	65020.9	56902.1	42322.1	29593.1
58°	1960.2	7929.1	27642.5	41590.1	57141.7	65072.6	65040.1	56961.5	43086.7	29570.1
60°	1745.6	6884.7	26686.3	42201.4	56737.4	63735.2	63430.5	55664.3	42973.6	29334.4
62.5°	1372.0	5371.0	25745.5	41494.3	52403.0	57260.5	57386.9	49281.6	39175.8	27960.5
65°	1092.2	4002.8	23783.3	36397.4	43151.8	47022.4	47493.8	40074.5	32699.2	23676.0
67.5°	869.9	2893.4	19951.0	28978.0	34145.9	39244.8	39587.8	33645.8	25333.5	18140.2
70°	707.1	1956.4	13771.4	21192.7	28163.6	33896.8	33917.9	27951.0	18908.6	11885.9
72.5°	626.6	1354.7	7994.2	15455.7	22836.7	27621.4	27063.8	22681.5	14532.1	7040.0
75°	542.3	898.7	3920.5	9448.6	13846.1	13940.0	14152.7	10521.6	7264.1	3347.5
77.5°	446.5	638.1	1544.4	2581.1	4152.3	5315.4	5512.8	4177.2	2416.3	823.9
80°	306.6	302.8	415.8	791.4	1188.0	1488.9	1389.2	1075.0	632.3	316.2
82.5°	132.2	143.7	187.8	226.1	184.0	178.2	170.5	109.2	84.3	65.1
85°	42.2	38.3	40.2	40.2	32.6	24.9	24.9	11.5	0.0	0.0
87.5°	21.1	17.2	17.2	15.3	9.6	3.8	1.9	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°
111.1	0°	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1
103.5	2.5°	101.6	101.6	97.7	93.9	92.0	88.1	86.2	84.3	82.4	80.5
111.1	5°	107.3	105.4	99.6	93.9	88.1	82.4	78.6	74.7	70.9	69.0
122.6	7.5°	116.9	113.1	101.6	92.0	84.3	76.6	72.8	67.1	63.2	57.5
136.0	10°	128.4	120.7	105.4	93.9	82.4	72.8	67.1	61.3	55.6	47.9
155.2	12.5°	143.7	130.3	111.1	92.0	78.6	67.1	61.3	53.7	47.9	42.2
180.1	15°	157.1	139.9	113.1	92.0	74.7	61.3	53.7	46.0	40.2	32.6
226.1	17.5°	176.3	147.5	111.1	86.2	69.0	53.7	46.0	40.2	30.7	19.2
335.3	20°	208.9	153.3	107.3	80.5	59.4	44.1	34.5	26.8	13.4	3.8
503.9	22.5°	260.6	168.6	103.5	72.8	51.7	34.5	23.0	9.6	0.0	0.0
766.5	25°	360.2	195.4	103.5	69.0	46.0	24.9	7.7	0.0	0.0	0.0
1088.4	27.5°	479.0	231.9	103.5	59.4	36.4	13.4	0.0	0.0	0.0	0.0
1483.1	30°	599.8	272.1	103.5	51.7	28.7	1.9	0.0	0.0	0.0	0.0
1826.1	32.5°	714.7	306.6	105.4	44.1	19.2	0.0	0.0	0.0	0.0	0.0
2301.3	35°	831.6	312.3	103.5	38.3	11.5	0.0	0.0	0.0	0.0	0.0
2883.8	37.5°	981.1	300.8	97.7	34.5	5.7	0.0	0.0	0.0	0.0	0.0
3794.0	40°	1207.2	306.6	92.0	32.6	1.9	0.0	0.0	0.0	0.0	0.0
5417.0	42.5°	1624.9	331.5	84.3	32.6	0.0	0.0	0.0	0.0	0.0	0.0
8628.4	45°	2809.1	444.5	76.6	34.5	0.0	0.0	0.0	0.0	0.0	0.0
12953.2	47.5°	4646.7	799.0	74.7	34.5	0.0	0.0	0.0	0.0	0.0	0.0
15603.3	50°	5930.5	1006.0	78.6	36.4	0.0	0.0	0.0	0.0	0.0	0.0
15934.7	52.5°	5920.9	1121.0	82.4	38.3	7.7	0.0	0.0	0.0	0.0	0.0
14687.3	55°	5263.7	1142.0	88.1	42.2	24.9	0.0	0.0	0.0	0.0	0.0
12621.7	57.5°	4399.5	1042.4	101.6	51.7	46.0	0.0	0.0	0.0	0.0	0.0
12297.9	58°	4246.2	996.4	105.4	53.7	49.8	0.0	0.0	0.0	0.0	0.0
10667.2	60°	3479.7	812.4	134.1	67.1	67.1	0.0	0.0	0.0	0.0	0.0
8745.3	62.5°	2402.9	709.0	153.3	86.2	69.0	0.0	0.0	0.0	0.0	0.0
6447.9	65°	1699.6	640.0	166.7	92.0	55.6	0.0	0.0	0.0	0.0	0.0
4581.5	67.5°	1270.4	590.2	184.0	93.9	28.7	0.0	0.0	0.0	0.0	0.0
2874.2	70°	973.4	553.8	226.1	99.6	7.7	0.0	0.0	0.0	0.0	0.0
1713.0	72.5°	793.3	511.6	274.0	103.5	0.0	0.0	0.0	0.0	0.0	0.0
1027.1	75°	657.2	461.8	264.4	113.1	0.0	0.0	0.0	0.0	0.0	0.0
548.0	77.5°	436.9	358.3	241.4	113.1	0.0	0.0	0.0	0.0	0.0	0.0
195.4	80°	153.3	141.8	187.8	99.6	0.0	0.0	0.0	0.0	0.0	0.0
40.2	82.5°	23.0	19.2	26.8	34.5	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°
111.1	0°	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1
78.6	2.5°	78.6	78.6	76.6	78.6	78.6	82.4	92.0	105.4	120.7	126.5
67.1	5°	65.1	63.2	61.3	61.3	61.3	67.1	74.7	90.1	107.3	115.0
55.6	7.5°	53.7	51.7	49.8	47.9	47.9	51.7	61.3	78.6	95.8	103.5
46.0	10°	44.1	40.2	38.3	36.4	36.4	40.2	49.8	67.1	86.2	93.9
38.3	12.5°	36.4	30.7	26.8	24.9	23.0	28.7	38.3	53.7	74.7	84.3
28.7	15°	24.9	19.2	13.4	11.5	9.6	15.3	24.9	42.2	63.2	74.7
15.3	17.5°	13.4	5.7	1.9	0.0	0.0	3.8	11.5	30.7	51.7	61.3
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	38.3	47.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.0	32.6
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	17.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	15.3
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°
111.1	0°	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1	111.1
132.2	2.5°	136.0	134.1	130.3	126.5	126.5	126.5	132.2	138.0	143.7	143.7
118.8	5°	126.5	126.5	124.6	120.7	120.7	122.6	130.3	139.9	147.5	149.5
109.2	7.5°	116.9	120.7	116.9	115.0	116.9	118.8	126.5	138.0	149.5	153.3
101.6	10°	111.1	113.1	113.1	111.1	111.1	115.0	122.6	138.0	153.3	159.0
92.0	12.5°	103.5	107.3	105.4	105.4	105.4	109.2	118.8	136.0	157.1	164.8
82.4	15°	95.8	101.6	101.6	99.6	99.6	101.6	115.0	134.1	162.9	176.3
70.9	17.5°	88.1	93.9	95.8	92.0	92.0	95.8	109.2	134.1	166.7	189.7
57.5	20°	72.8	82.4	88.1	82.4	82.4	86.2	99.6	126.5	168.6	203.1
42.2	22.5°	57.5	67.1	74.7	72.8	72.8	74.7	92.0	120.7	170.5	226.1
24.9	25°	42.2	51.7	57.5	61.3	61.3	67.1	84.3	116.9	178.2	274.0
11.5	27.5°	24.9	36.4	44.1	47.9	49.8	57.5	78.6	113.1	191.6	343.0
0.0	30°	11.5	21.1	30.7	38.3	38.3	51.7	72.8	109.2	208.9	442.6
0.0	32.5°	0.0	9.6	15.3	26.8	28.7	42.2	67.1	105.4	233.8	538.4
0.0	35°	0.0	0.0	7.7	21.1	21.1	34.5	61.3	101.6	272.1	611.3
0.0	37.5°	0.0	0.0	0.0	15.3	17.2	30.7	59.4	99.6	279.8	617.0
0.0	40°	0.0	0.0	0.0	11.5	13.4	28.7	59.4	101.6	252.9	603.6
0.0	42.5°	0.0	0.0	0.0	7.7	9.6	28.7	59.4	105.4	228.0	618.9
0.0	45°	0.0	0.0	0.0	5.7	7.7	30.7	57.5	103.5	214.6	699.4
0.0	47.5°	0.0	0.0	0.0	7.7	11.5	30.7	55.6	101.6	216.5	965.7
0.0	50°	0.0	0.0	0.0	9.6	13.4	30.7	57.5	97.7	237.6	1485.0
0.0	52.5°	0.0	0.0	0.0	7.7	11.5	34.5	63.2	95.8	258.7	1931.5
0.0	55°	0.0	0.0	0.0	1.9	5.7	44.1	69.0	95.8	291.3	2042.6
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	49.8	78.6	101.6	344.9	1998.5
0.0	58°	0.0	0.0	0.0	0.0	0.0	49.8	80.5	101.6	348.7	1960.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	49.8	88.1	113.1	375.6	1745.6
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	42.2	105.4	141.8	390.9	1372.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	34.5	124.6	155.2	402.4	1092.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	32.6	128.4	157.1	408.1	869.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	34.5	126.5	168.6	427.3	707.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	38.3	115.0	185.9	427.3	626.6
0.0	75°	0.0	0.0	0.0	0.0	0.0	40.2	107.3	208.9	389.0	542.3
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	38.3	105.4	243.4	346.8	446.5
0.0	80°	3.8	5.7	5.7	3.8	3.8	32.6	103.5	247.2	295.1	306.6
1.9	82.5°	11.5	15.3	13.4	9.6	9.6	28.7	92.0	206.9	153.3	132.2
11.5	85°	21.1	24.9	24.9	21.1	21.1	26.8	57.5	74.7	51.7	42.2
21.1	87.5°	28.7	32.6	32.6	28.7	28.7	26.8	24.9	23.0	21.1	21.1
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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

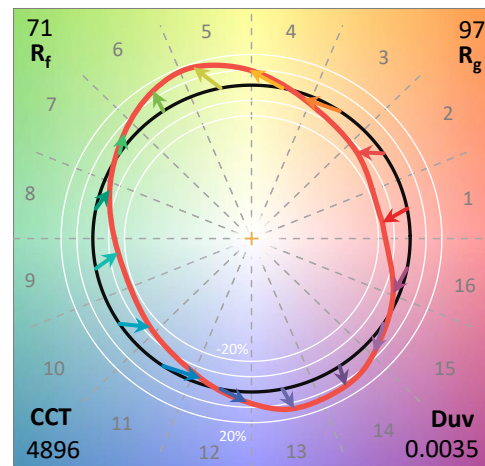
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 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-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K):	4896	CRI (Ra):	70.2		
CIE u':	0.2101	R1:	68.1	R9:	-35.1
CIE v':	0.4901	R2:	73.9	R10:	39.3
Duv:	0.0035	R3:	79.4	R11:	71.1
CIE x:	0.3489	R4:	72.1	R12:	43.8
CIE y:	0.3618	R5:	69.2	R13:	68.1
CIE z:	0.2893	R6:	65.7	R14:	88.4
Peak Wavelength (nm):	443	R7:	78.1	R15:	59.7
Dominant Wavelength (nm):	570	R8:	55.3		
Purity:	13.25435				
Rf:	70.7				
Rg:	96.8				



Test Conditions

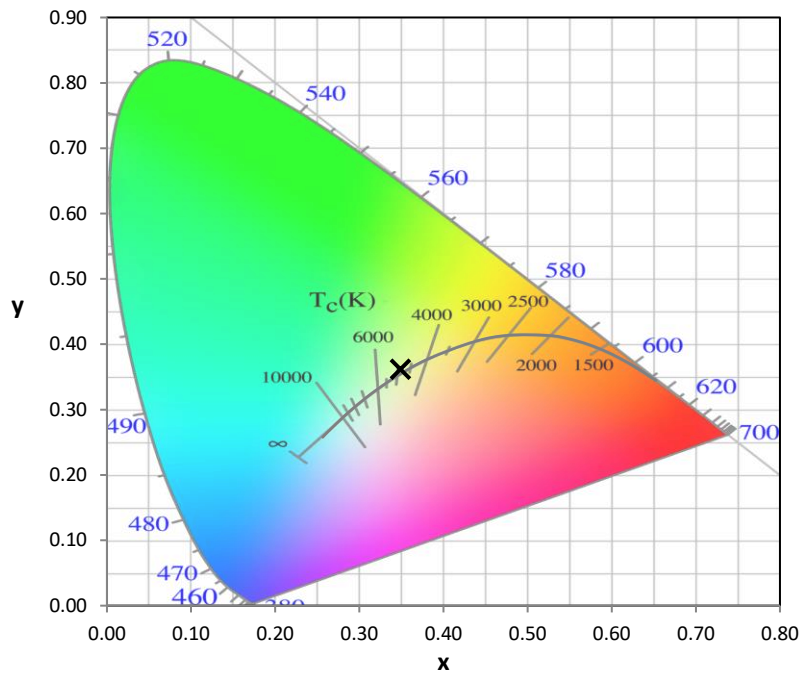
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

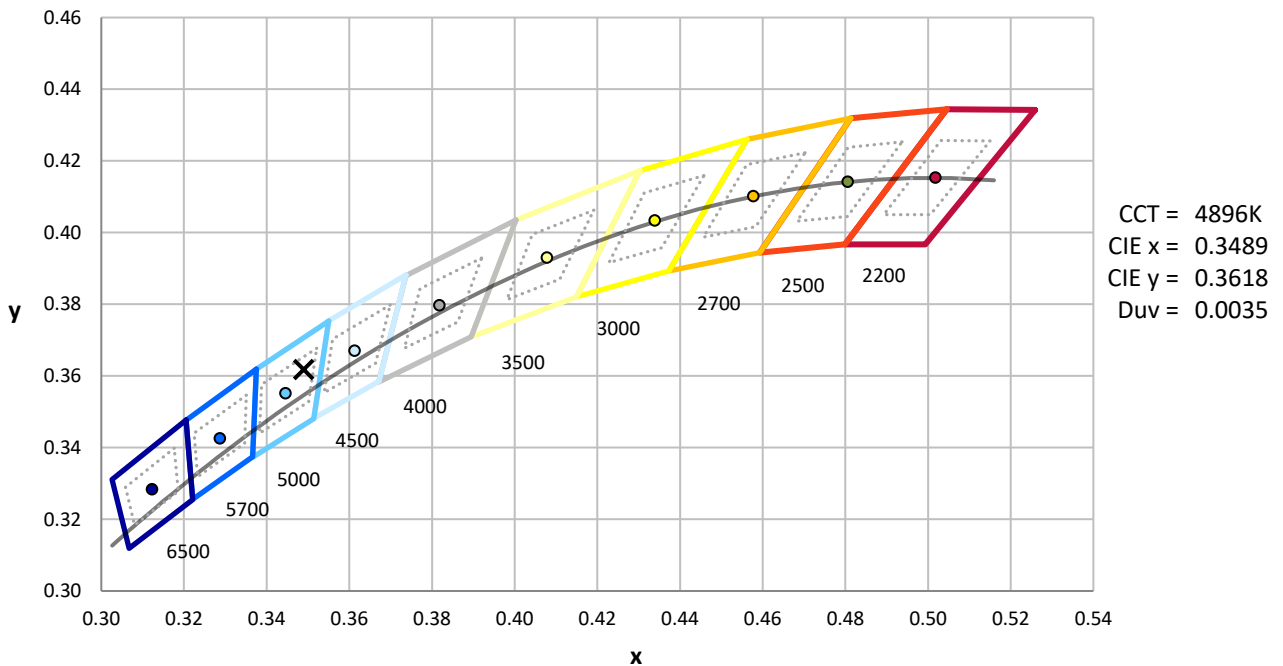
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



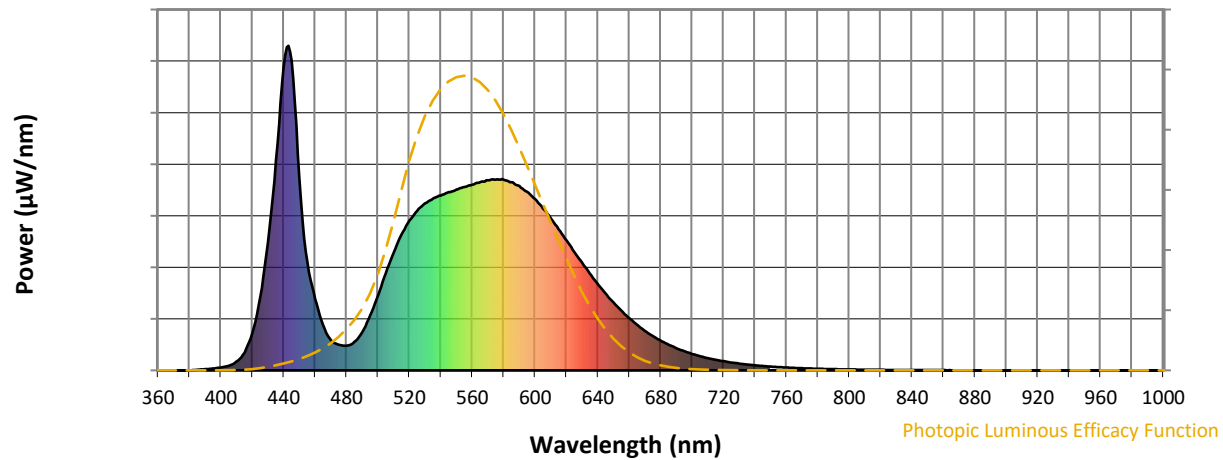
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength

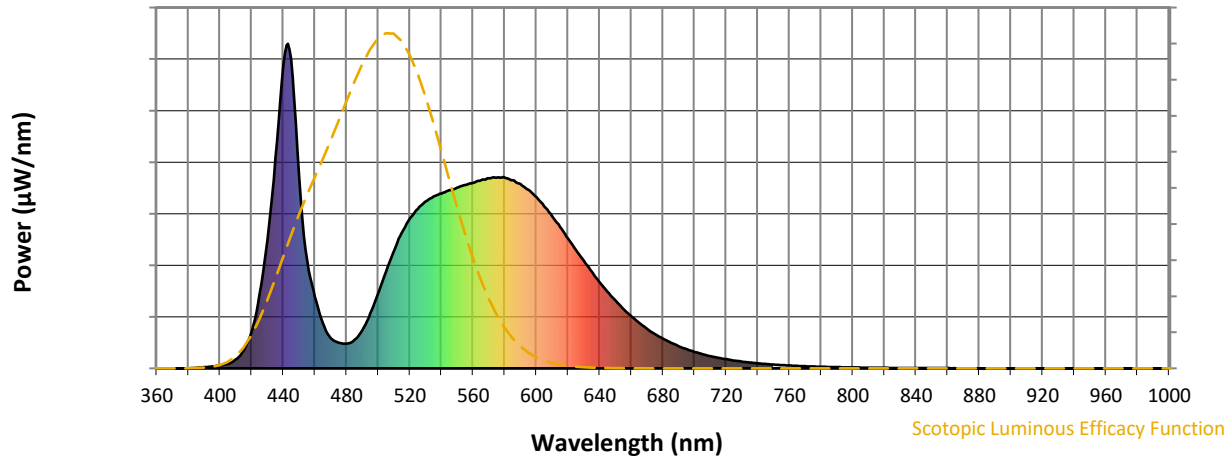


Photopic Lumens: NR

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



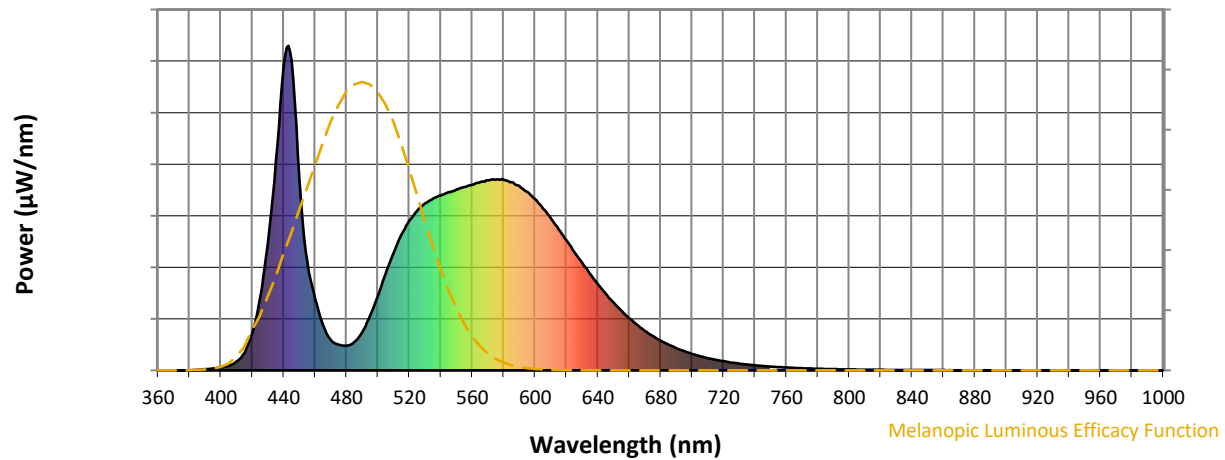
Scotopic Lumens: NR

S/P: 1.7

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	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

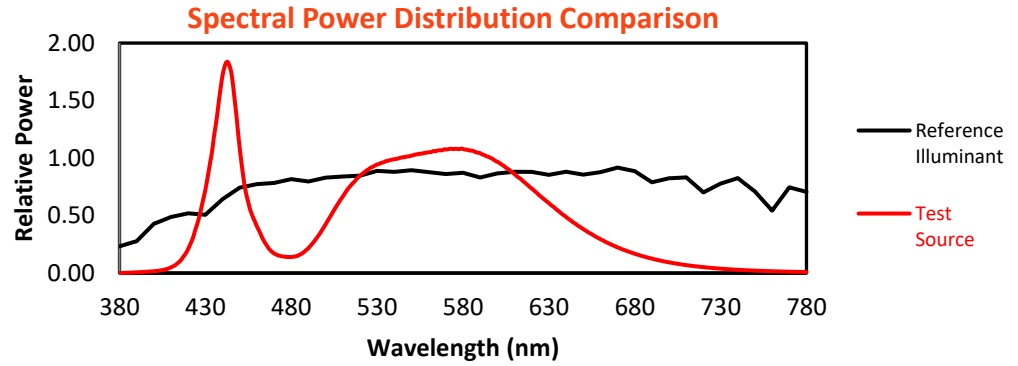
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	118	NR	620	401	NR	750	12	NR	880	0	NR
365	0	NR	495	168	NR	625	365	NR	755	10	NR	885	0	NR
370	0	NR	500	230	NR	630	331	NR	760	9	NR	890	0	NR
375	0	NR	505	299	NR	635	298	NR	765	8	NR	895	0	NR
380	0	NR	510	362	NR	640	266	NR	770	6	NR	900	0	NR
385	2	NR	515	418	NR	645	236	NR	775	6	NR	905	0	NR
390	4	NR	520	461	NR	650	209	NR	780	5	NR	910	0	NR
395	6	NR	525	491	NR	655	184	NR	785	4	NR	915	0	NR
400	9	NR	530	514	NR	660	160	NR	790	4	NR	920	0	NR
405	14	NR	535	530	NR	665	140	NR	795	3	NR	925	0	NR
410	27	NR	540	539	NR	670	122	NR	800	3	NR	930	0	NR
415	55	NR	545	549	NR	675	106	NR	805	2	NR	935	0	NR
420	115	NR	550	557	NR	680	92	NR	810	2	NR	940	0	NR
425	226	NR	555	565	NR	685	79	NR	815	2	NR	945	0	NR
430	395	NR	560	572	NR	690	68	NR	820	2	NR	950	0	NR
435	648	NR	565	580	NR	695	59	NR	825	1	NR	955	0	NR
440	937	NR	570	586	NR	700	51	NR	830	1	NR	960	0	NR
445	953	NR	575	588	NR	705	44	NR	835	1	NR	965	0	NR
450	591	NR	580	588	NR	710	38	NR	840	1	NR	970	0	NR
455	334	NR	585	580	NR	715	32	NR	845	1	NR	975	0	NR
460	221	NR	590	568	NR	720	28	NR	850	1	NR	980	0	NR
465	140	NR	595	550	NR	725	24	NR	855	1	NR	985	0	NR
470	93	NR	600	527	NR	730	21	NR	860	1	NR	990	0	NR
475	79	NR	605	499	NR	735	18	NR	865	0	NR	995	0	NR
480	76	NR	610	469	NR	740	15	NR	870	0	NR	1000	0	NR
485	87	NR	615	435	NR	745	13	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-6

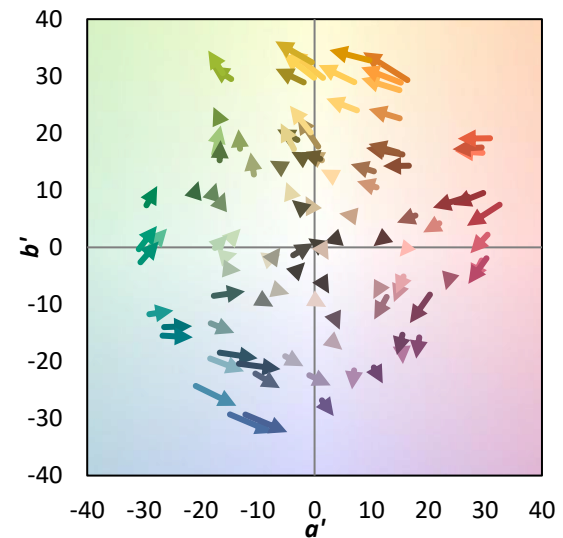
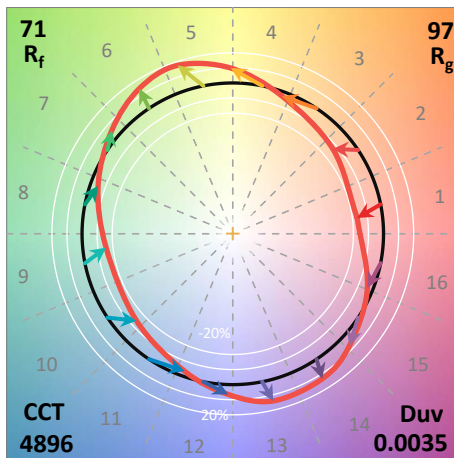
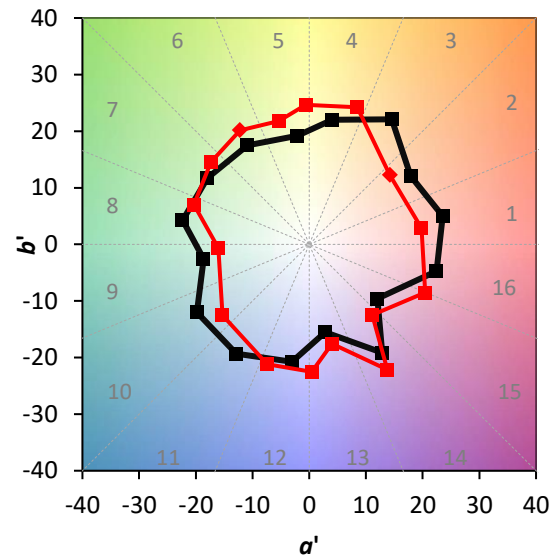
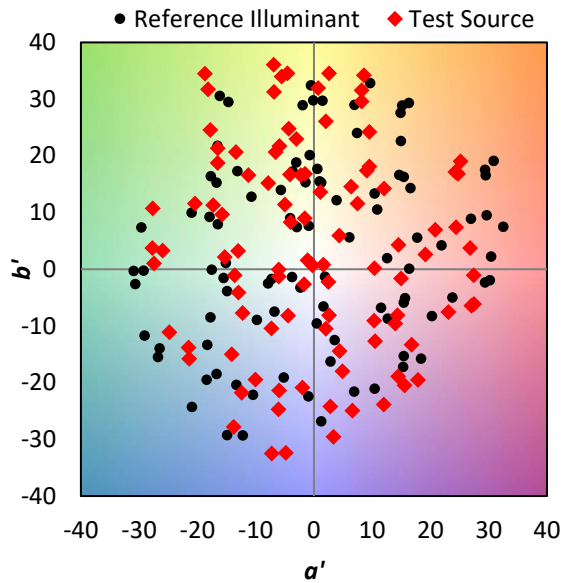
TM-30-18

Summary

$R_f = 70.7$
 $R_g = 96.8$
 CIE $R_a = 70.2$
 $R_g = -35.1$

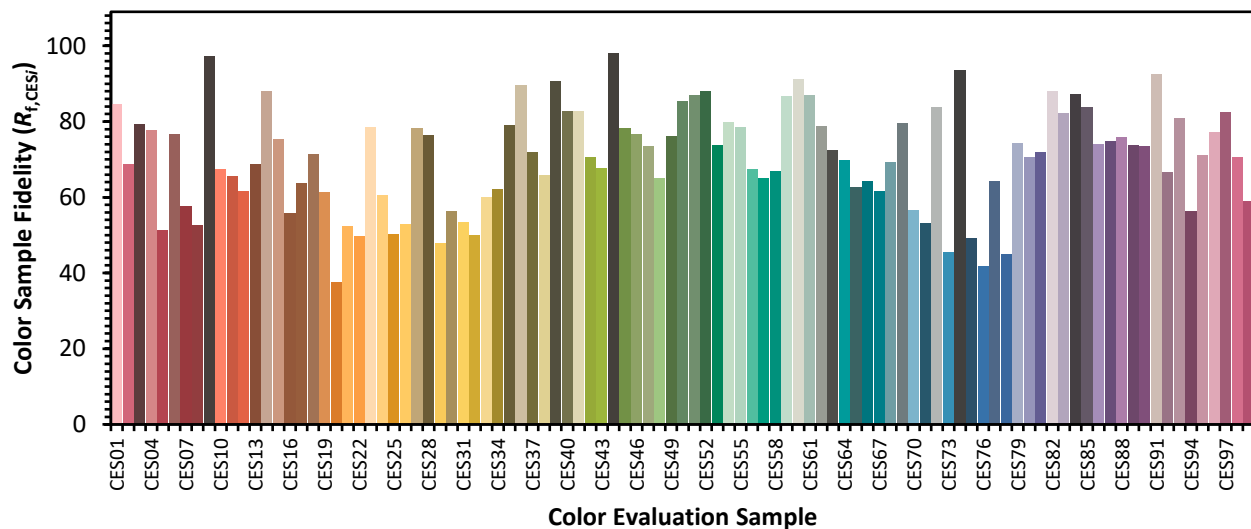


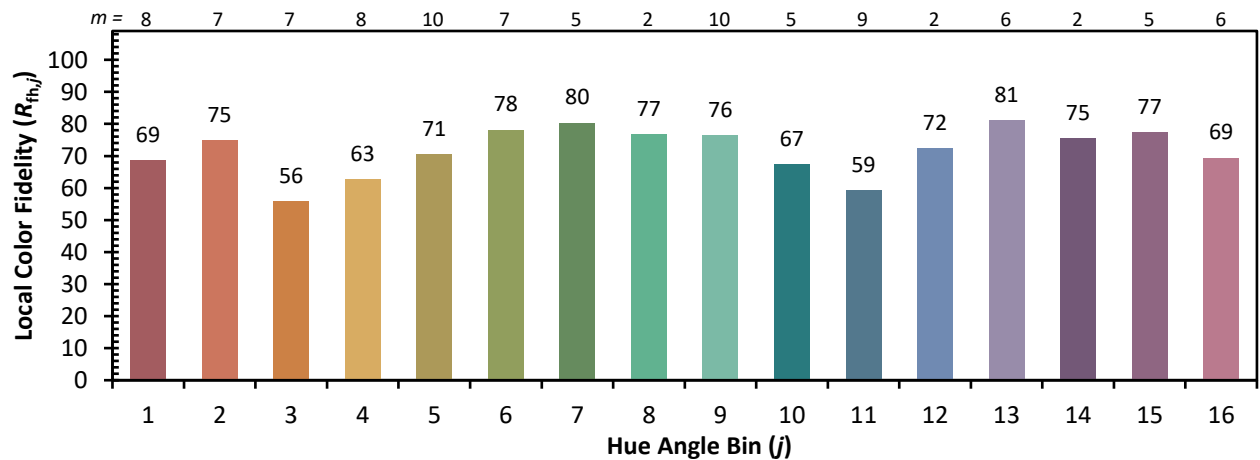
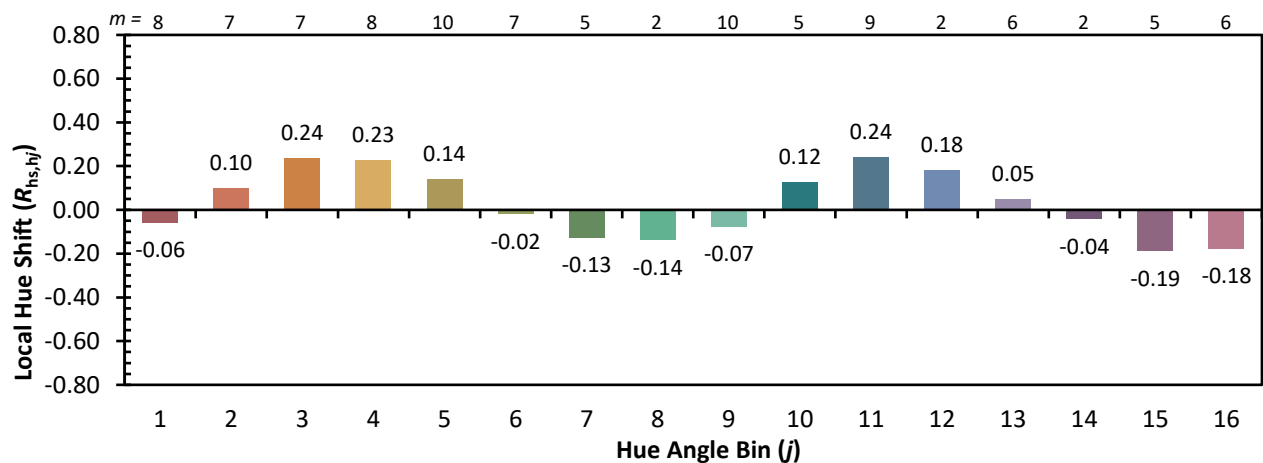
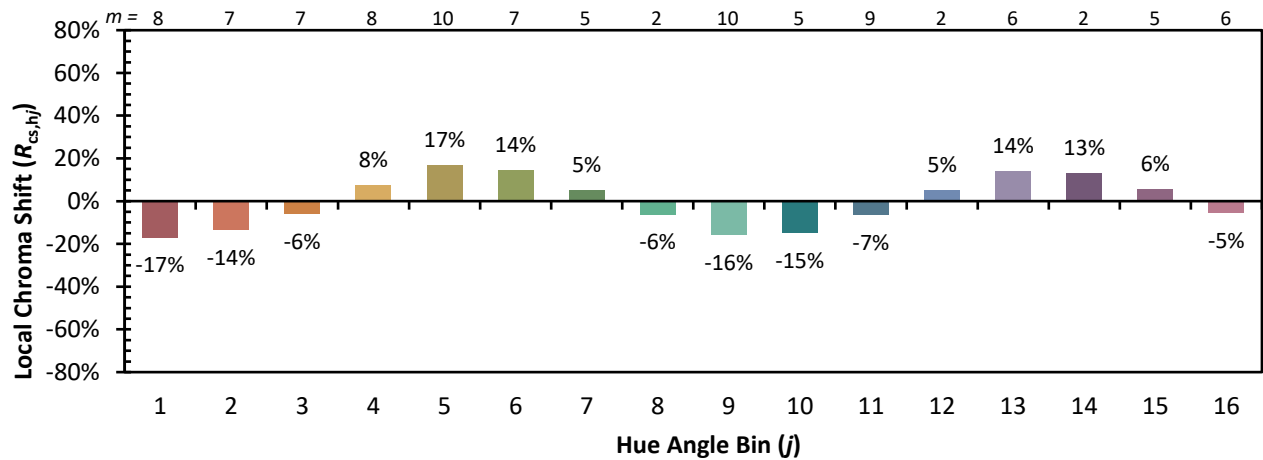
Color Vector Graphics



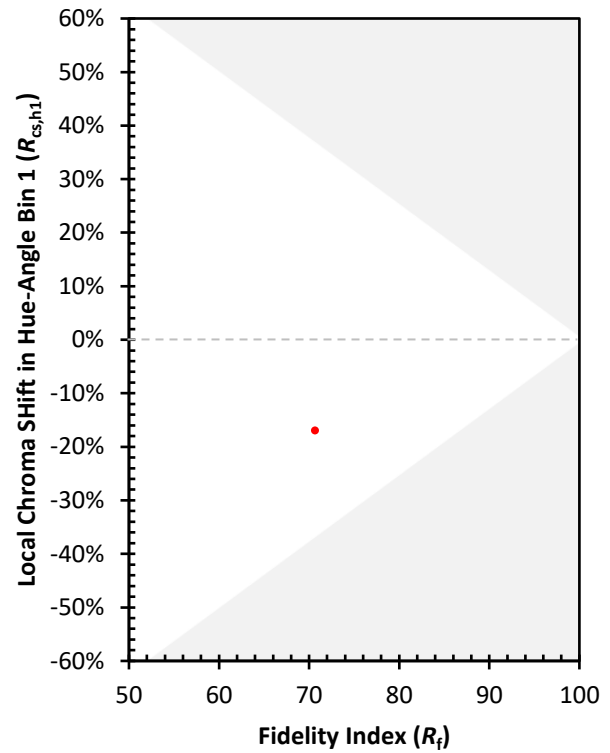
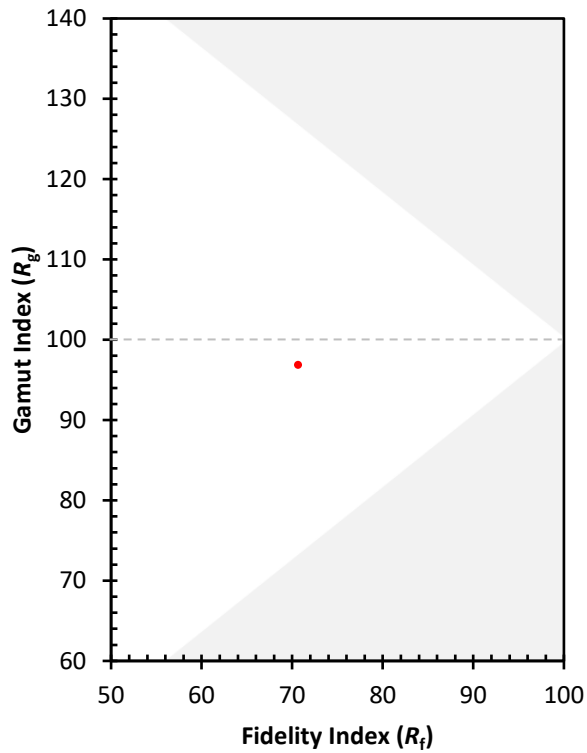
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 53	CES51 = 87	CES76 = 42
CES02 = 59	CES27 = 78	CES52 = 88	CES77 = 64
CES03 = 30	CES28 = 76	CES53 = 74	CES78 = 45
CES04 = 69	CES29 = 48	CES54 = 80	CES79 = 74
CES05 = 46	CES30 = 56	CES55 = 79	CES80 = 71
CES06 = 50	CES31 = 54	CES56 = 68	CES81 = 72
CES07 = 39	CES32 = 50	CES57 = 65	CES82 = 88
CES08 = 38	CES33 = 60	CES58 = 67	CES83 = 82
CES09 = 29	CES34 = 62	CES59 = 87	CES84 = 87
CES10 = 72	CES35 = 79	CES60 = 91	CES85 = 84
CES11 = 56	CES36 = 90	CES61 = 87	CES86 = 74
CES12 = 61	CES37 = 72	CES62 = 79	CES87 = 75
CES13 = 41	CES38 = 66	CES63 = 72	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 70	CES89 = 74
CES15 = 70	CES40 = 83	CES65 = 63	CES90 = 73
CES16 = 46	CES41 = 83	CES66 = 64	CES91 = 92
CES17 = 49	CES42 = 70	CES67 = 62	CES92 = 67
CES18 = 55	CES43 = 68	CES68 = 69	CES93 = 81
CES19 = 71	CES44 = 98	CES69 = 80	CES94 = 56
CES20 = 64	CES45 = 78	CES70 = 56	CES95 = 71
CES21 = 85	CES46 = 77	CES71 = 53	CES96 = 77
CES22 = 77	CES47 = 73	CES72 = 84	CES97 = 82
CES23 = 91	CES48 = 65	CES73 = 46	CES98 = 71
CES24 = 90	CES49 = 76	CES74 = 94	CES99 = 59
CES25 = 71	CES50 = 85	CES75 = 49	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)