

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: P1049571

Luminaire Tested: **GALN-SA1C-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049571
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

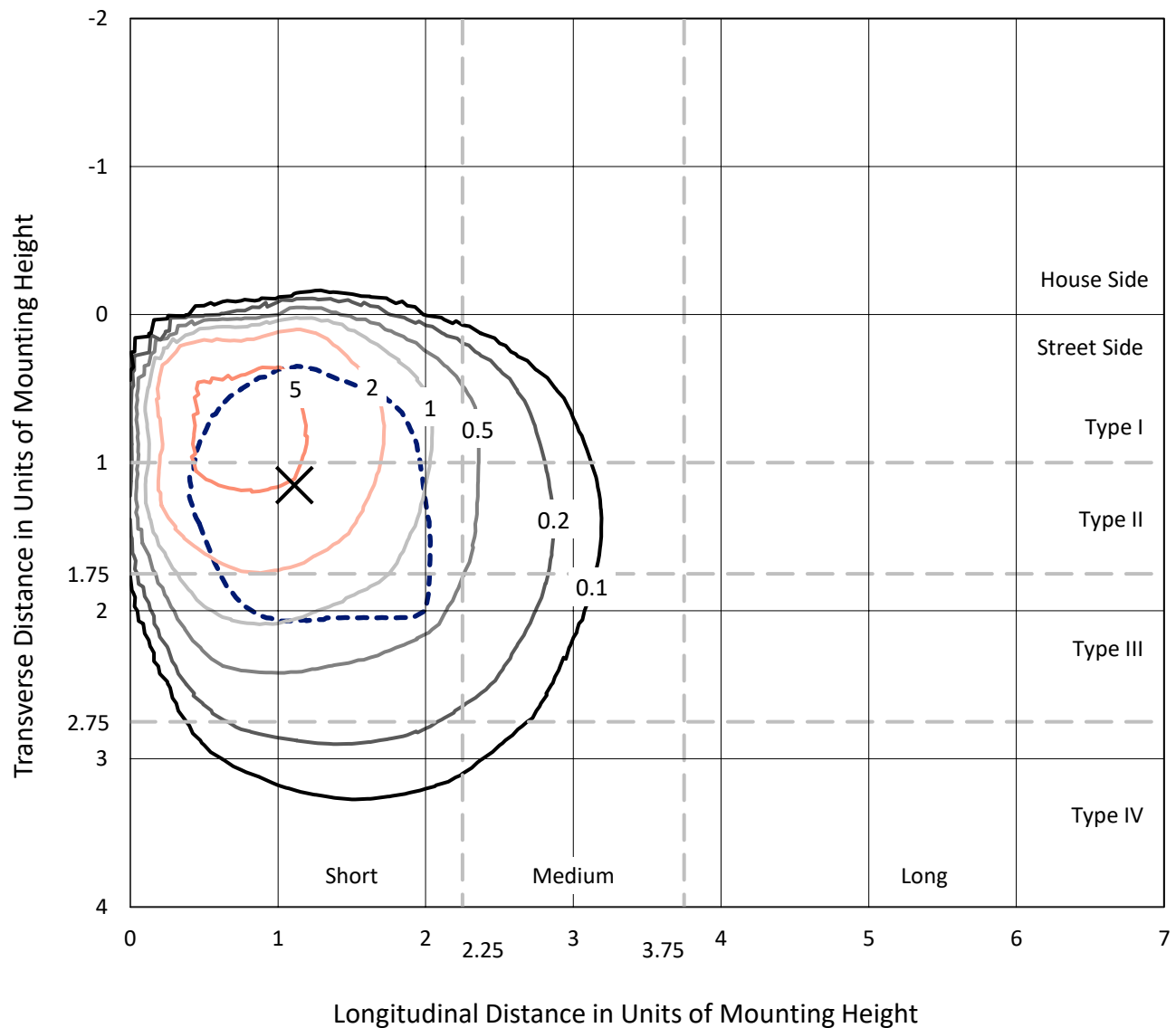
Lumens per Lamp: N/A
Luminaire Lumens: 5041 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 50.2
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

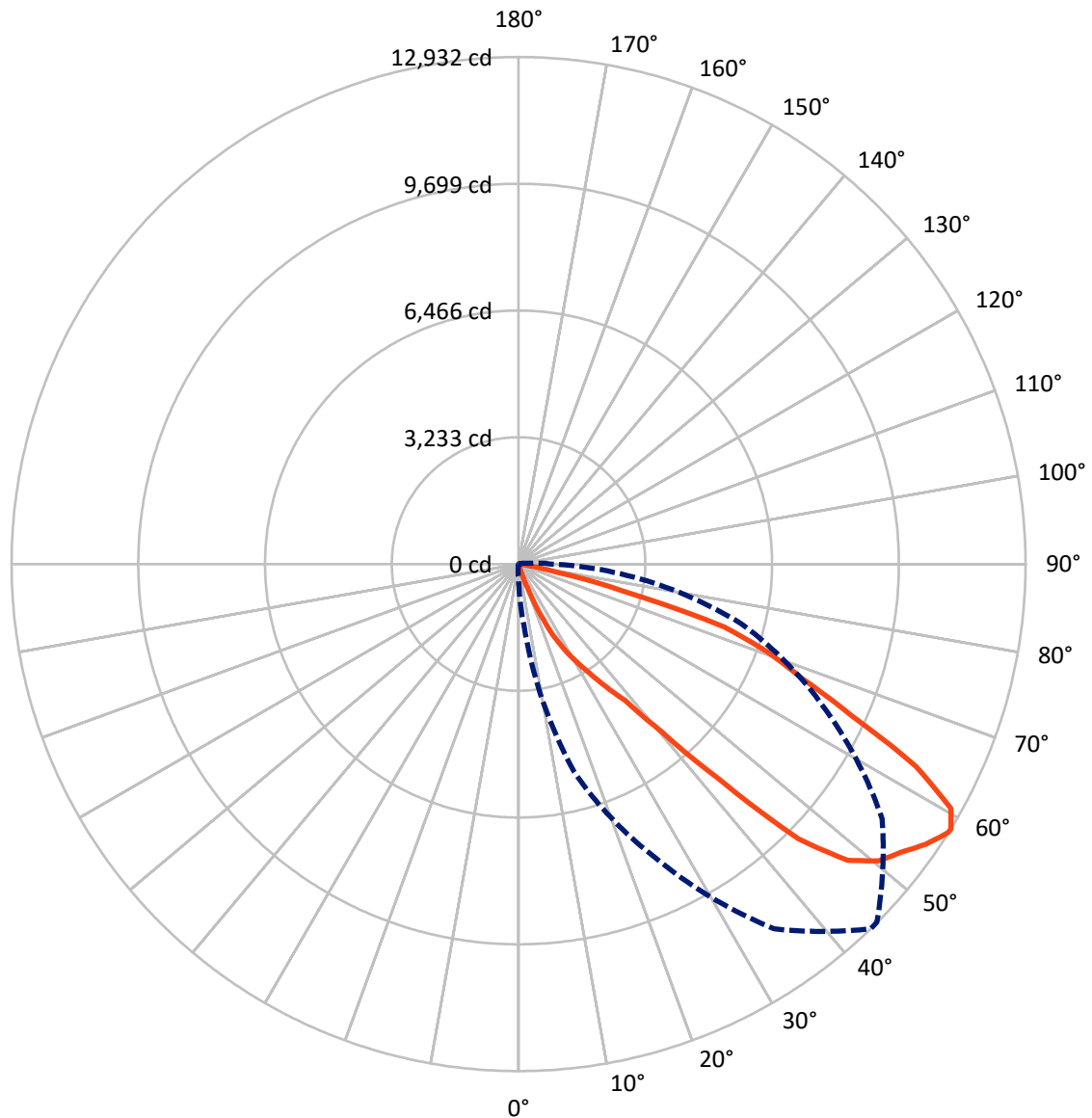
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	34.4	0.0	34.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	5006.6	0.0	5006.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	5041.0	0.0	5041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.0
10°-20°	11.1	0.2
20°-30°	119.4	2.4
30°-40°	353.2	7.0
40°-50°	1052.6	20.9
50°-60°	1670.3	33.1
60°-70°	1393.2	27.6
70°-80°	429.7	8.5
80°-90°	9.5	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°	5041.0	100.0
0°-180°	5041.0	100.0



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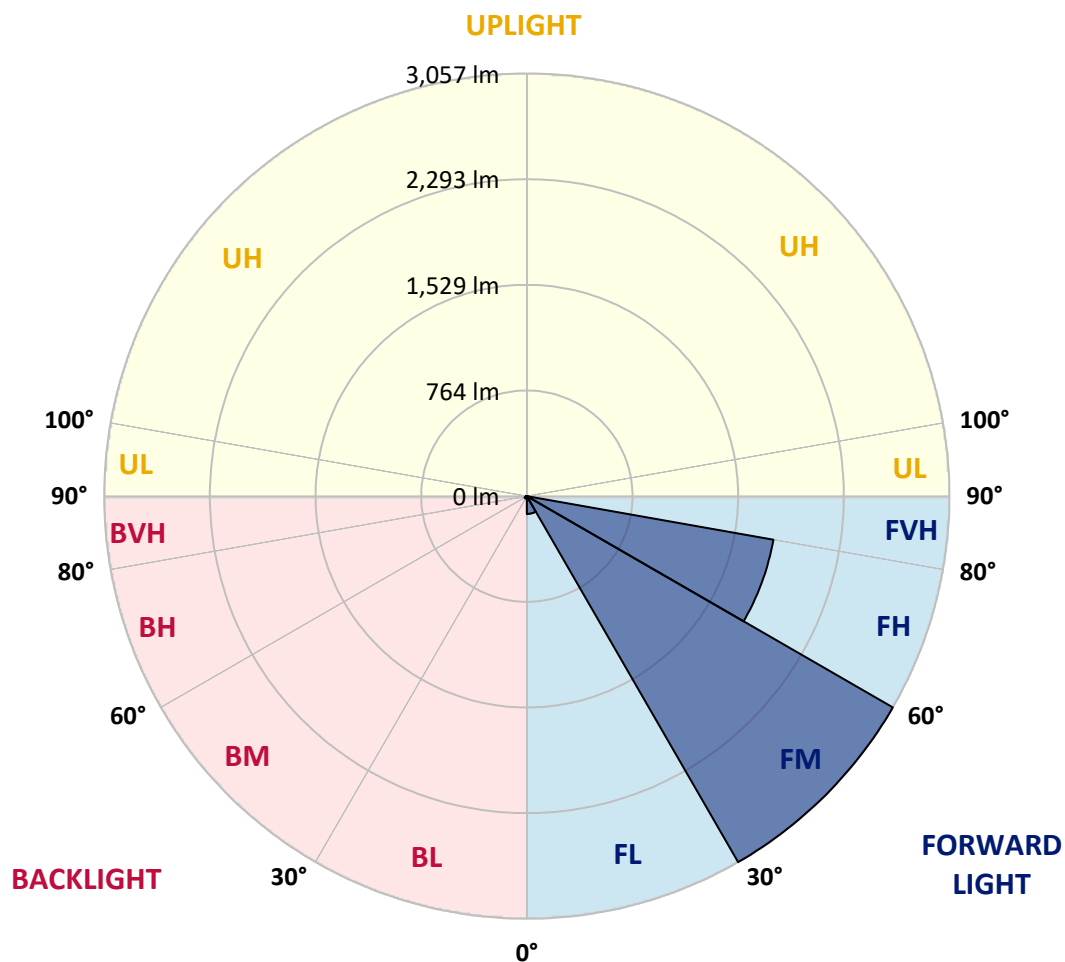
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.1	2.6			
FM	(30°-60°)	3057.3	60.6			
FH	(60°-80°)	1811.2	35.9			G2/5000
FVH	(80°-90°)	9.1	0.2			G0/10
BL	(0°-30°)	3.4	0.1	B0/110		
BM	(30°-60°)	18.8	0.4	B0/220		
BH	(60°-80°)	11.8	0.2	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	28.6	28.6	27.4	25.9	24.4	22.8	22.5	21.7	21.3	20.9
5°	29.7	29.7	29.3	28.2	26.7	25.5	25.5	24.4	23.6	22.8
7.5°	30.5	30.8	31.6	31.2	30.5	29.3	29.3	28.6	27.4	25.5
10°	31.6	32.7	34.3	35.0	35.4	35.4	35.0	34.7	32.7	30.1
12.5°	32.7	35.0	38.8	42.7	44.9	48.0	47.6	46.8	41.9	36.2
15°	35.0	38.5	46.5	57.5	74.6	85.3	89.5	85.7	69.3	48.7
17.5°	37.7	43.4	67.4	120.3	197.3	233.8	255.9	238.0	157.7	92.5
20°	40.4	52.9	125.3	311.9	511.8	631.4	664.5	612.7	393.4	176.3
22.5°	44.9	74.3	254.0	644.7	1102.8	1282.2	1316.1	1150.4	743.0	348.1
25°	54.5	107.8	437.9	1050.6	1645.8	1948.6	1934.5	1717.4	1205.3	556.0
27.5°	68.2	156.9	662.2	1492.8	2166.0	2433.0	2465.0	2196.5	1606.6	817.6
30°	88.0	217.4	902.9	1846.9	2583.0	2871.7	2877.0	2599.4	1965.7	1047.2
32.5°	107.0	274.6	1113.5	2189.3	2993.9	3310.4	3334.0	2992.4	2233.8	1286.4
35°	121.5	311.9	1326.7	2490.1	3408.2	3844.3	3842.7	3437.2	2551.4	1500.0
37.5°	122.6	349.2	1519.8	2797.8	3933.0	4421.2	4469.5	4022.5	2935.3	1764.3
40°	120.0	391.1	1764.3	3277.6	4878.5	5627.6	5670.2	5106.6	3705.3	2216.7
42.5°	123.0	463.8	2161.1	4163.7	6448.6	7524.4	7606.6	7014.1	5120.7	3139.8
45°	139.0	600.5	2992.4	5646.2	8686.6	9998.1	9970.7	9117.3	6767.7	4544.9
47.5°	191.9	935.3	4224.7	7089.1	10116.9	11284.8	11308.5	10265.4	7728.9	5625.3
50°	295.1	1431.1	5260.1	7851.9	10731.9	11903.7	11881.6	10676.3	8094.1	6157.3
52.5°	383.9	1789.8	5779.5	8119.6	10810.7	12209.4	12207.9	10784.5	8150.8	6203.0
55°	405.9	1816.8	5783.7	8134.0	10987.4	12609.7	12659.9	11050.7	8224.3	6003.4
57.5°	397.2	1608.5	5542.3	8217.8	11302.0	12919.3	12921.9	11308.5	8410.9	5881.2
58°	389.6	1575.8	5493.5	8265.4	11356.1	12932.2	12925.7	11320.3	8562.8	5876.6
60°	346.9	1368.2	5303.5	8386.9	11275.7	12666.4	12605.9	11062.5	8540.4	5829.8
62.5°	272.7	1067.4	5116.5	8246.4	10414.3	11379.7	11404.8	9794.0	7785.6	5556.7
65°	217.1	795.5	4726.6	7233.4	8575.8	9345.0	9438.7	7964.2	6498.5	4705.3
67.5°	172.9	575.0	3965.0	5759.0	6786.0	7799.3	7867.5	6686.6	5034.7	3605.1
70°	140.5	388.8	2736.9	4211.7	5597.1	6736.5	6740.7	5554.8	3757.8	2362.1
72.5°	124.5	269.2	1588.7	3071.6	4538.5	5489.3	5378.5	4507.6	2888.0	1399.1
75°	107.8	178.6	779.1	1877.8	2751.7	2770.4	2812.6	2091.0	1443.6	665.3
77.5°	88.7	126.8	306.9	512.9	825.2	1056.4	1095.6	830.2	480.2	163.7
80°	60.9	60.2	82.6	157.3	236.1	295.9	276.1	213.6	125.7	62.8
82.5°	26.3	28.6	37.3	44.9	36.6	35.4	33.9	21.7	16.8	12.9
85°	8.4	7.6	8.0	8.0	6.5	5.0	5.0	2.3	0.0	0.0
87.5°	4.2	3.4	3.4	3.0	1.9	0.8	0.4	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°
22.1	0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
20.6	2.5°	20.2	20.2	19.4	18.7	18.3	17.5	17.1	16.8	16.4	16.0
22.1	5°	21.3	20.9	19.8	18.7	17.5	16.4	15.6	14.9	14.1	13.7
24.4	7.5°	23.2	22.5	20.2	18.3	16.8	15.2	14.5	13.3	12.6	11.4
27.0	10°	25.5	24.0	20.9	18.7	16.4	14.5	13.3	12.2	11.0	9.5
30.8	12.5°	28.6	25.9	22.1	18.3	15.6	13.3	12.2	10.7	9.5	8.4
35.8	15°	31.2	27.8	22.5	18.3	14.9	12.2	10.7	9.1	8.0	6.5
44.9	17.5°	35.0	29.3	22.1	17.1	13.7	10.7	9.1	8.0	6.1	3.8
66.6	20°	41.5	30.5	21.3	16.0	11.8	8.8	6.9	5.3	2.7	0.8
100.2	22.5°	51.8	33.5	20.6	14.5	10.3	6.9	4.6	1.9	0.0	0.0
152.3	25°	71.6	38.8	20.6	13.7	9.1	5.0	1.5	0.0	0.0	0.0
216.3	27.5°	95.2	46.1	20.6	11.8	7.2	2.7	0.0	0.0	0.0	0.0
294.7	30°	119.2	54.1	20.6	10.3	5.7	0.4	0.0	0.0	0.0	0.0
362.9	32.5°	142.0	60.9	20.9	8.8	3.8	0.0	0.0	0.0	0.0	0.0
457.3	35°	165.3	62.1	20.6	7.6	2.3	0.0	0.0	0.0	0.0	0.0
573.1	37.5°	195.0	59.8	19.4	6.9	1.1	0.0	0.0	0.0	0.0	0.0
754.0	40°	239.9	60.9	18.3	6.5	0.4	0.0	0.0	0.0	0.0	0.0
1076.5	42.5°	322.9	65.9	16.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0
1714.8	45°	558.3	88.3	15.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0
2574.3	47.5°	923.5	158.8	14.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
3100.9	50°	1178.6	199.9	15.6	7.2	0.0	0.0	0.0	0.0	0.0	0.0
3166.8	52.5°	1176.7	222.8	16.4	7.6	1.5	0.0	0.0	0.0	0.0	0.0
2918.9	55°	1046.1	227.0	17.5	8.4	5.0	0.0	0.0	0.0	0.0	0.0
2508.4	57.5°	874.3	207.2	20.2	10.3	9.1	0.0	0.0	0.0	0.0	0.0
2444.0	58°	843.9	198.0	20.9	10.7	9.9	0.0	0.0	0.0	0.0	0.0
2120.0	60°	691.5	161.5	26.7	13.3	13.3	0.0	0.0	0.0	0.0	0.0
1738.0	62.5°	477.5	140.9	30.5	17.1	13.7	0.0	0.0	0.0	0.0	0.0
1281.4	65°	337.8	127.2	33.1	18.3	11.0	0.0	0.0	0.0	0.0	0.0
910.5	67.5°	252.5	117.3	36.6	18.7	5.7	0.0	0.0	0.0	0.0	0.0
571.2	70°	193.5	110.1	44.9	19.8	1.5	0.0	0.0	0.0	0.0	0.0
340.4	72.5°	157.7	101.7	54.5	20.6	0.0	0.0	0.0	0.0	0.0	0.0
204.1	75°	130.6	91.8	52.6	22.5	0.0	0.0	0.0	0.0	0.0	0.0
108.9	77.5°	86.8	71.2	48.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0
38.8	80°	30.5	28.2	37.3	19.8	0.0	0.0	0.0	0.0	0.0	0.0
8.0	82.5°	4.6	3.8	5.3	6.9	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°
22.1	0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
15.6	2.5°	15.6	15.6	15.2	15.6	15.6	16.4	18.3	20.9	24.0	25.1
13.3	5°	12.9	12.6	12.2	12.2	12.2	13.3	14.9	17.9	21.3	22.8
11.0	7.5°	10.7	10.3	9.9	9.5	9.5	10.3	12.2	15.6	19.0	20.6
9.1	10°	8.8	8.0	7.6	7.2	7.2	8.0	9.9	13.3	17.1	18.7
7.6	12.5°	7.2	6.1	5.3	5.0	4.6	5.7	7.6	10.7	14.9	16.8
5.7	15°	5.0	3.8	2.7	2.3	1.9	3.0	5.0	8.4	12.6	14.9
3.0	17.5°	2.7	1.1	0.4	0.0	0.0	0.8	2.3	6.1	10.3	12.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.6	9.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.6	6.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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	1.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0
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):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
22.1	0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
26.3	2.5°	27.0	26.7	25.9	25.1	25.1	25.1	26.3	27.4	28.6	28.6
23.6	5°	25.1	25.1	24.8	24.0	24.0	24.4	25.9	27.8	29.3	29.7
21.7	7.5°	23.2	24.0	23.2	22.8	23.2	23.6	25.1	27.4	29.7	30.5
20.2	10°	22.1	22.5	22.5	22.1	22.1	22.8	24.4	27.4	30.5	31.6
18.3	12.5°	20.6	21.3	20.9	20.9	20.9	21.7	23.6	27.0	31.2	32.7
16.4	15°	19.0	20.2	20.2	19.8	19.8	20.2	22.8	26.7	32.4	35.0
14.1	17.5°	17.5	18.7	19.0	18.3	18.3	19.0	21.7	26.7	33.1	37.7
11.4	20°	14.5	16.4	17.5	16.4	16.4	17.1	19.8	25.1	33.5	40.4
8.4	22.5°	11.4	13.3	14.9	14.5	14.5	14.9	18.3	24.0	33.9	44.9
5.0	25°	8.4	10.3	11.4	12.2	12.2	13.3	16.8	23.2	35.4	54.5
2.3	27.5°	5.0	7.2	8.8	9.5	9.9	11.4	15.6	22.5	38.1	68.2
0.0	30°	2.3	4.2	6.1	7.6	7.6	10.3	14.5	21.7	41.5	88.0
0.0	32.5°	0.0	1.9	3.0	5.3	5.7	8.4	13.3	20.9	46.5	107.0
0.0	35°	0.0	0.0	1.5	4.2	4.2	6.9	12.2	20.2	54.1	121.5
0.0	37.5°	0.0	0.0	0.0	3.0	3.4	6.1	11.8	19.8	55.6	122.6
0.0	40°	0.0	0.0	0.0	2.3	2.7	5.7	11.8	20.2	50.3	120.0
0.0	42.5°	0.0	0.0	0.0	1.5	1.9	5.7	11.8	20.9	45.3	123.0
0.0	45°	0.0	0.0	0.0	1.1	1.5	6.1	11.4	20.6	42.7	139.0
0.0	47.5°	0.0	0.0	0.0	1.5	2.3	6.1	11.0	20.2	43.0	191.9
0.0	50°	0.0	0.0	0.0	1.9	2.7	6.1	11.4	19.4	47.2	295.1
0.0	52.5°	0.0	0.0	0.0	1.5	2.3	6.9	12.6	19.0	51.4	383.9
0.0	55°	0.0	0.0	0.0	0.4	1.1	8.8	13.7	19.0	57.9	405.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	9.9	15.6	20.2	68.5	397.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	9.9	16.0	20.2	69.3	389.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	9.9	17.5	22.5	74.6	346.9
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	8.4	20.9	28.2	77.7	272.7
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.9	24.8	30.8	80.0	217.1
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.5	25.5	31.2	81.1	172.9
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.9	25.1	33.5	84.9	140.5
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.6	22.8	36.9	84.9	124.5
0.0	75°	0.0	0.0	0.0	0.0	0.0	8.0	21.3	41.5	77.3	107.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.6	20.9	48.4	68.9	88.7
0.0	80°	0.8	1.1	1.1	0.8	0.8	6.5	20.6	49.1	58.6	60.9
0.4	82.5°	2.3	3.0	2.7	1.9	1.9	5.7	18.3	41.1	30.5	26.3
2.3	85°	4.2	5.0	5.0	4.2	4.2	5.3	11.4	14.9	10.3	8.4
4.2	87.5°	5.7	6.5	6.5	5.7	5.7	5.3	5.0	4.6	4.2	4.2
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

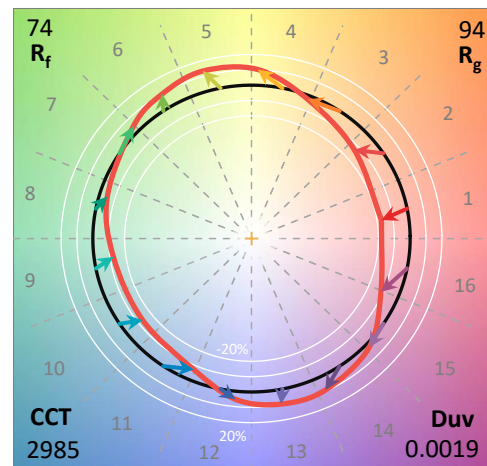
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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	CRI (Ra):	70.8		
CIE u':	0.2504	R1:	66.3	R9:	-43.2
CIE v':	0.5243	R2:	80.6	R10:	57.6
Duv:	0.0019	R3:	94.5	R11:	64.8
CIE x:	0.4408	R4:	68.2	R12:	53.5
CIE y:	0.4101	R5:	66.5	R13:	68.7
CIE z:	0.1491	R6:	74.7	R14:	97.0
Peak Wavelength (nm):	595	R7:	76.2	R15:	56.4
Dominant Wavelength (nm):	582	R8:	39.6		
Purity:	55.41818				
Rf:	73.8				
Rg:	94.4				



Test Conditions

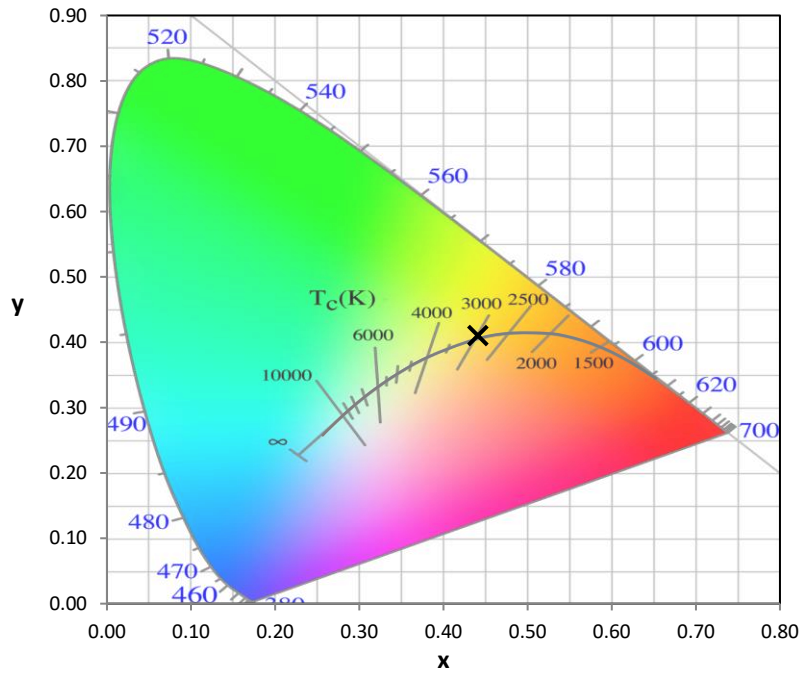
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

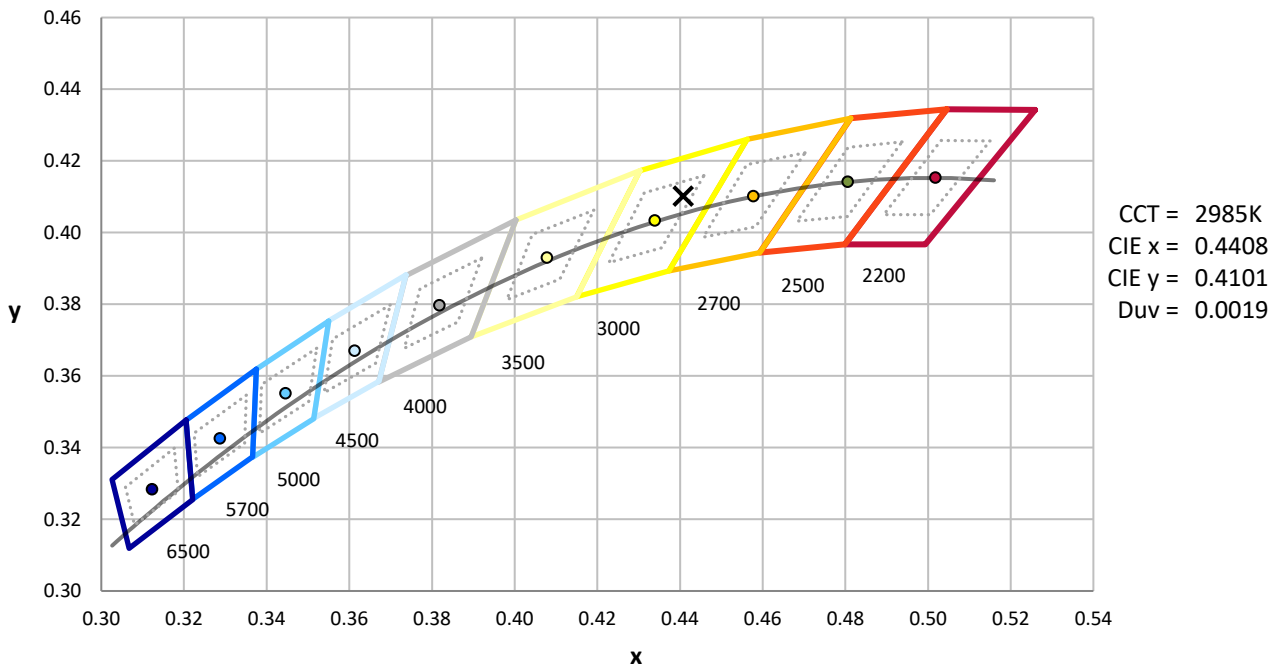
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



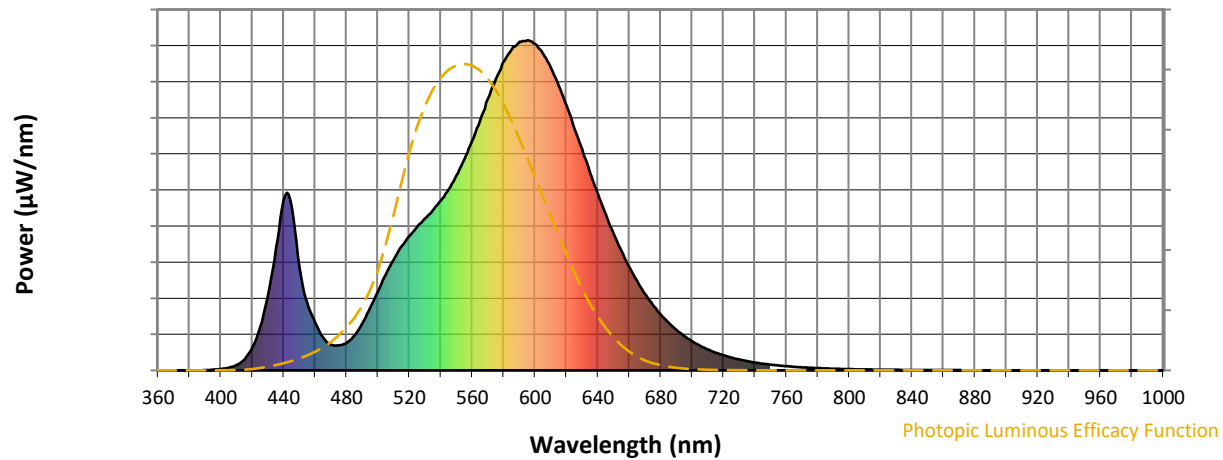
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

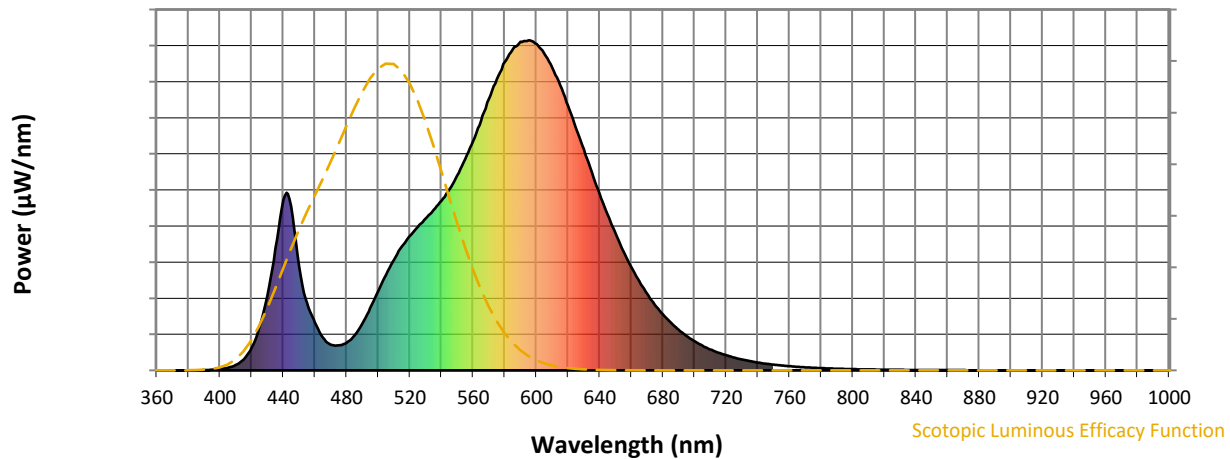


Photopic Lumens: NR

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			

REPORT NUMBER: SP1-2407-184-4

Scotopic Flux vs. Wavelength



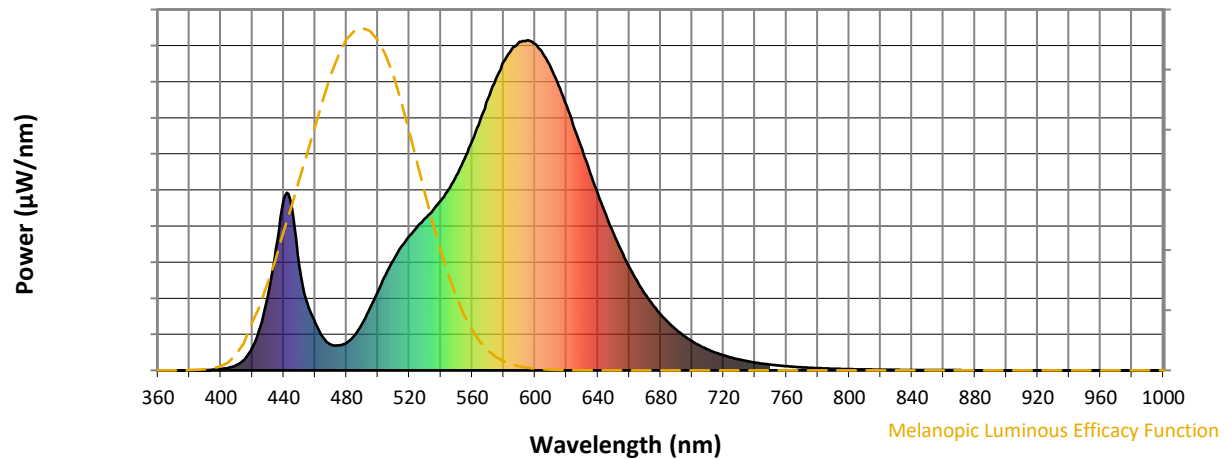
Scotopic Lumens: NR

S/P: 1.19

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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.13

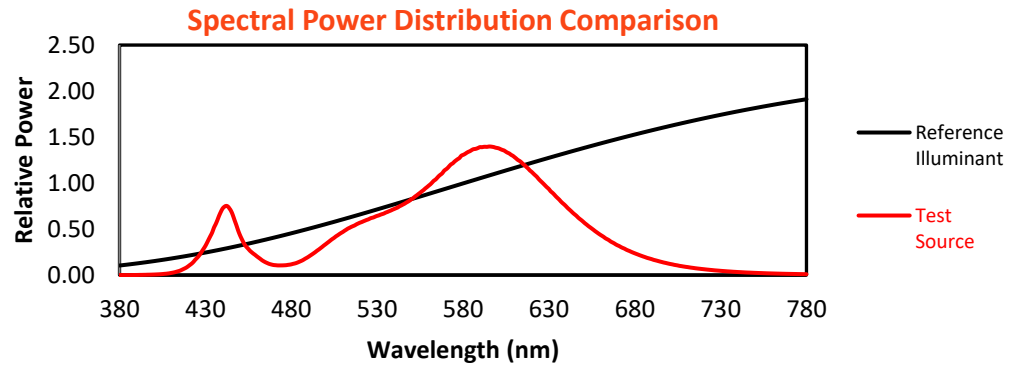
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803	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

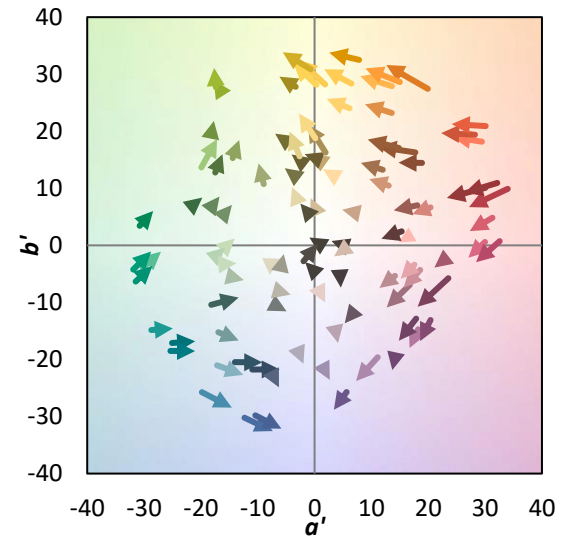
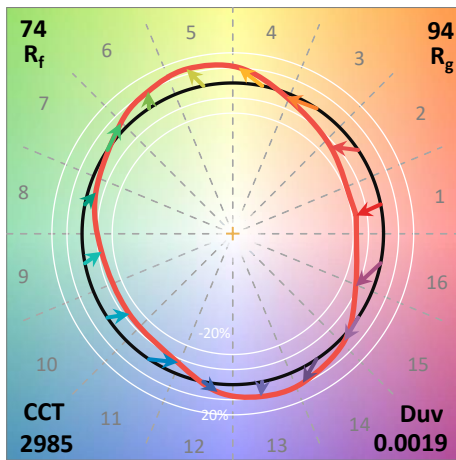
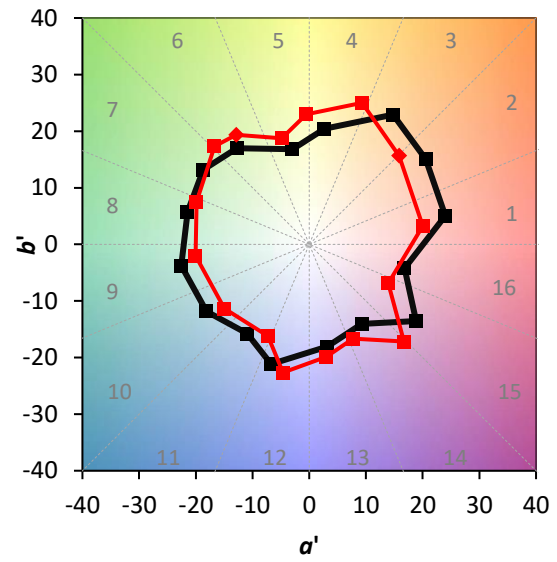
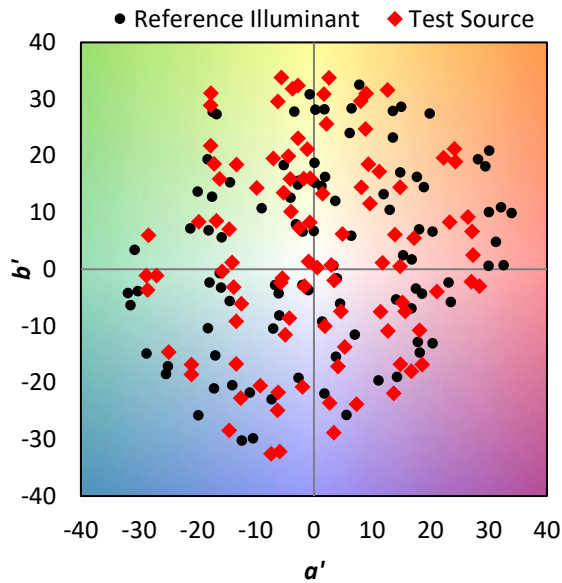
TM-30-18

Summary

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

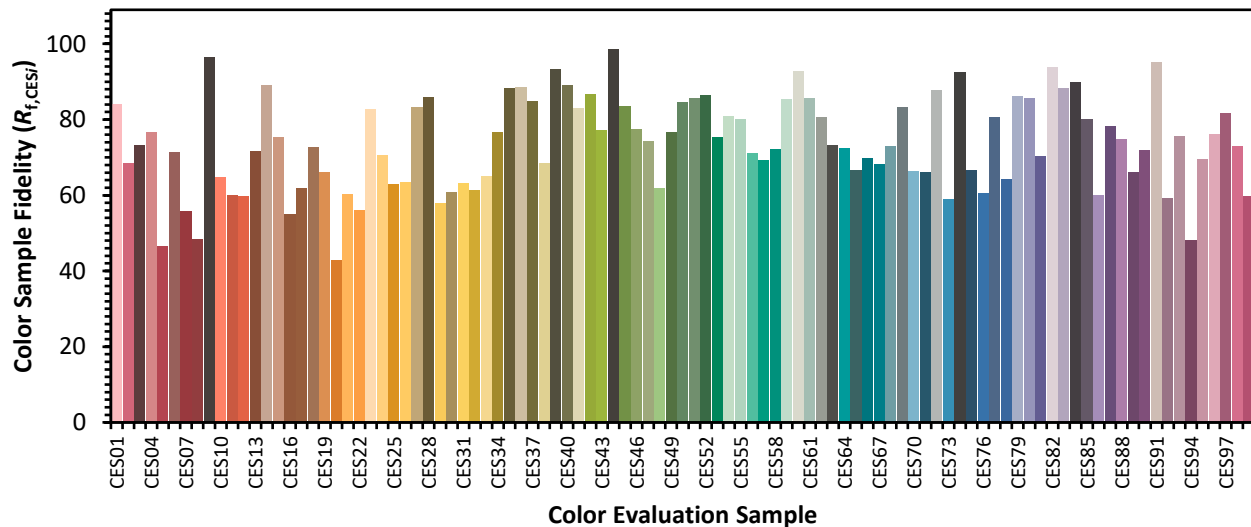


Color Vector Graphics

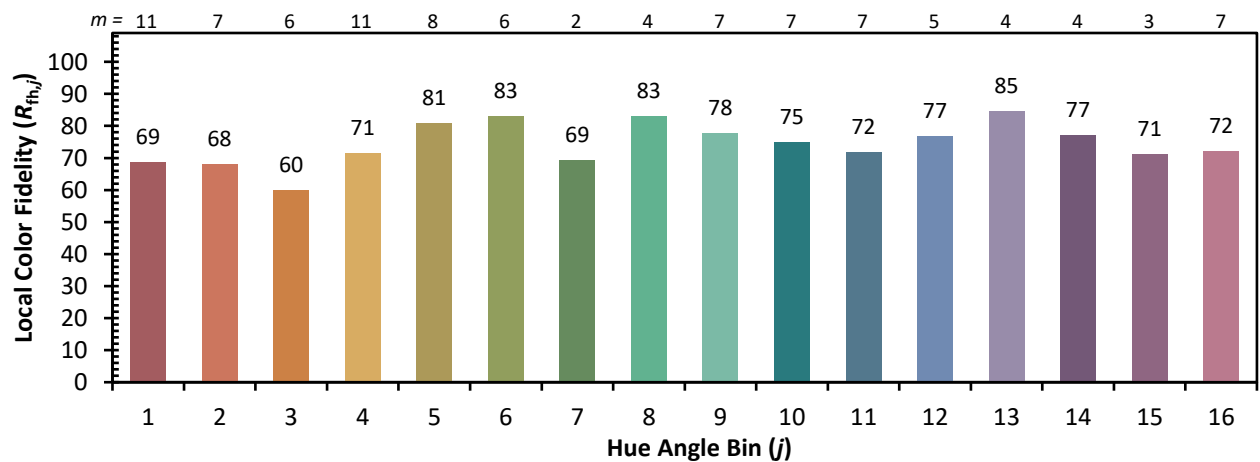
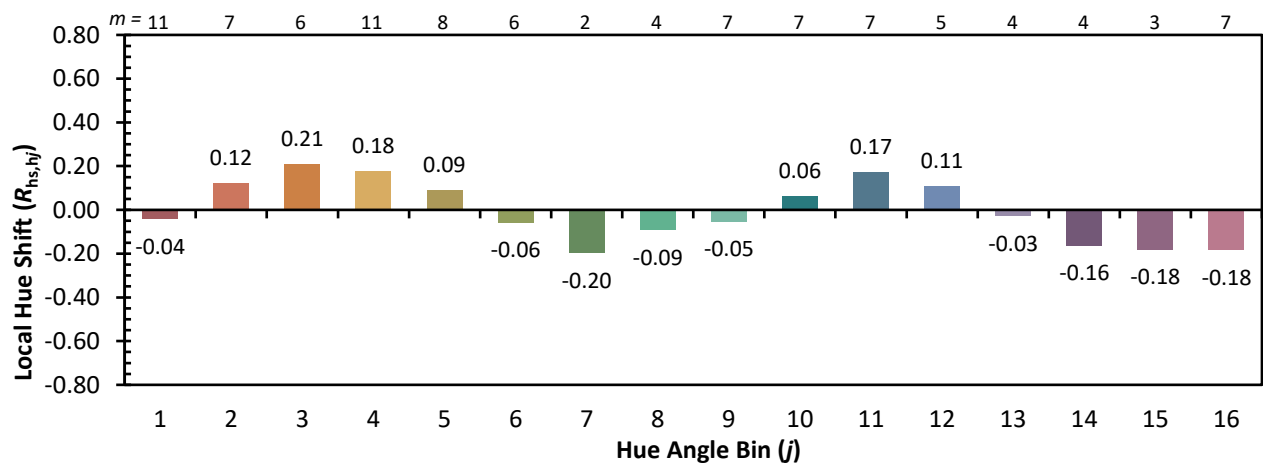
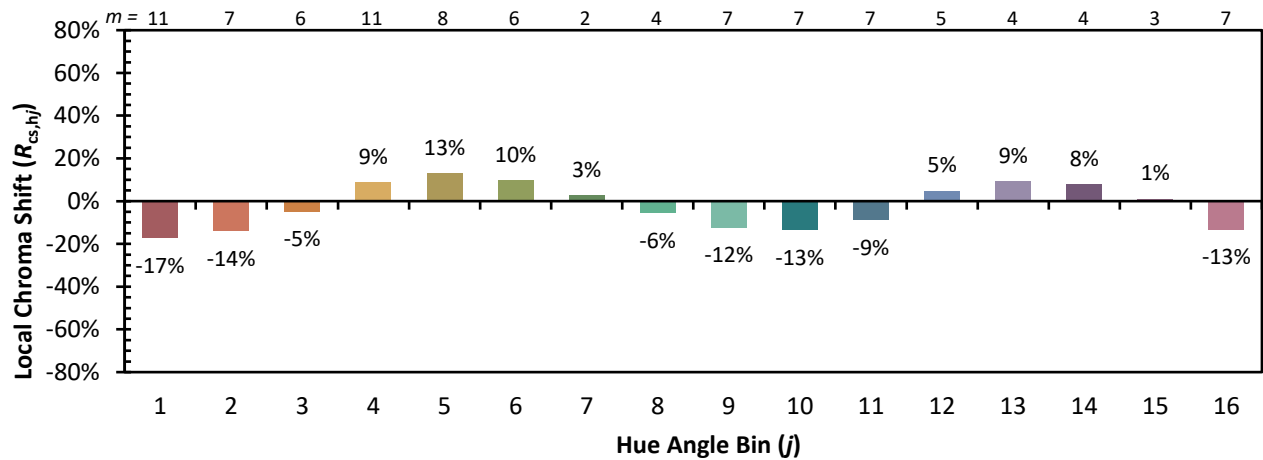


Individual Sample Fidelity Index ($R_{f,i}$)

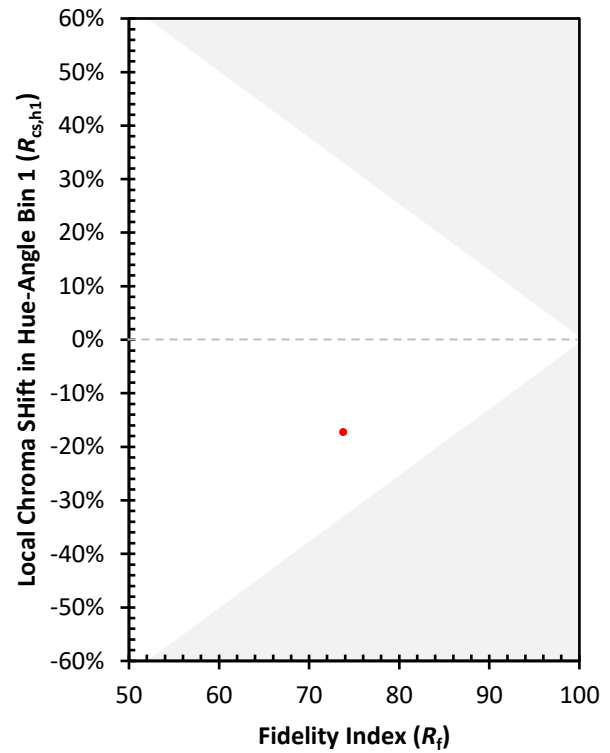
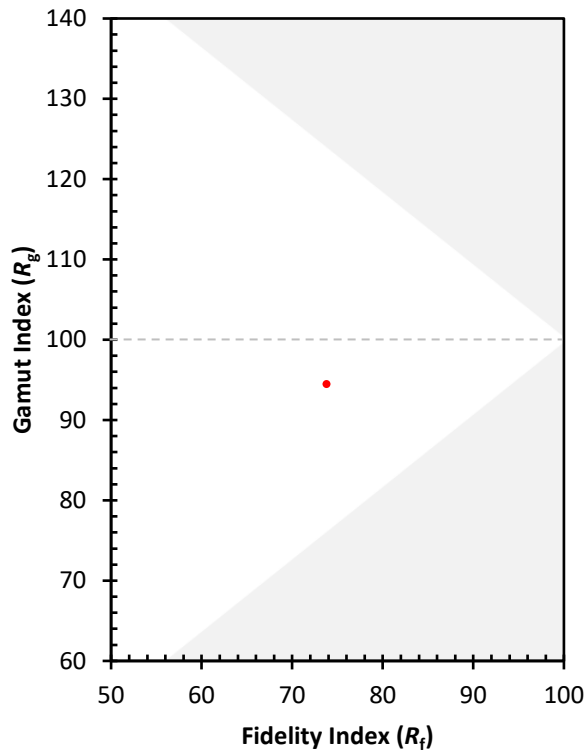
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82 = 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)