

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: P1049595

Luminaire Tested: **GALN-SA7C-730-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049595
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 7xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34246.9 lumens
Efficiency: N/A
Efficacy: 103.8 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

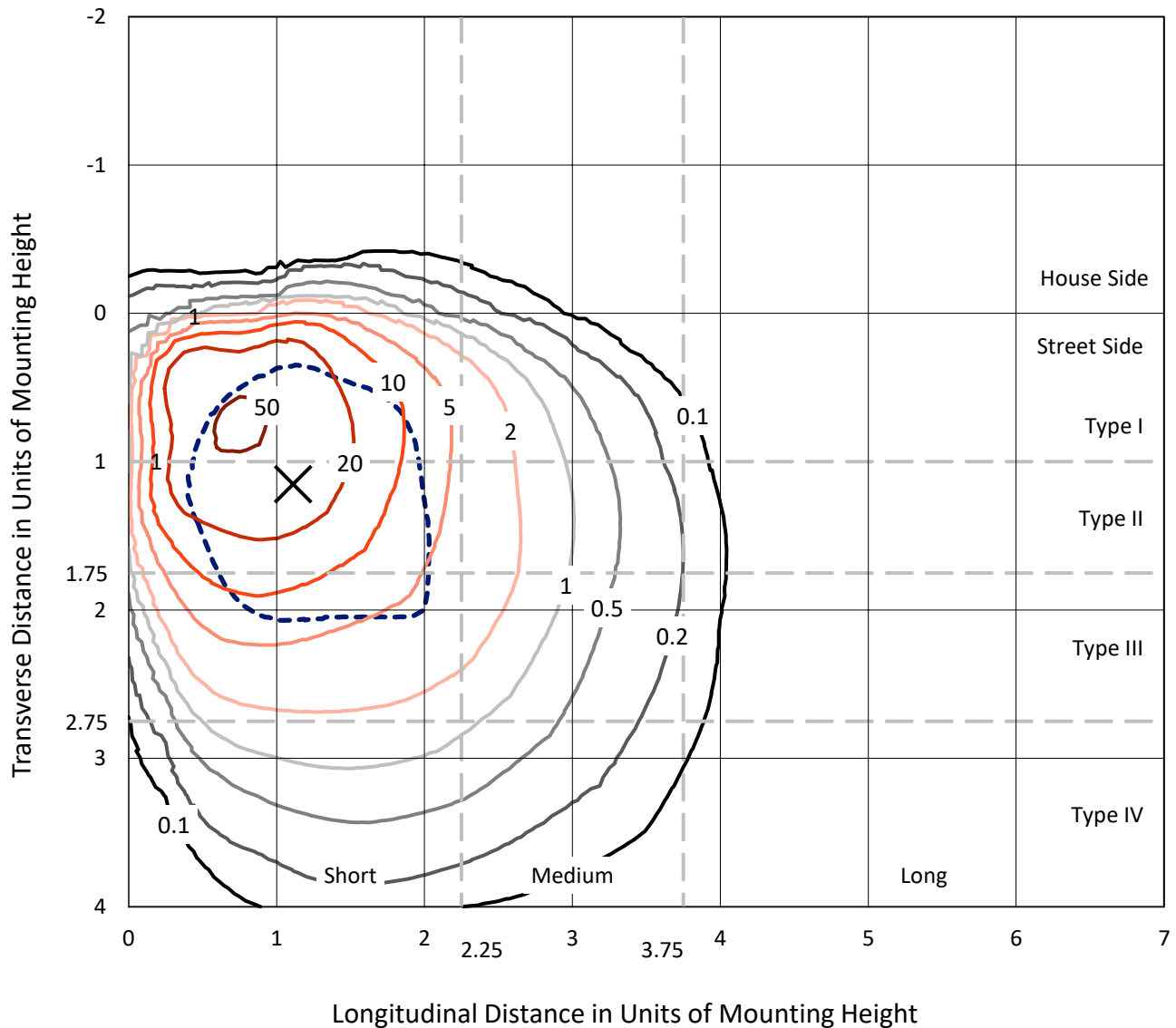
Input Watts (W): 330
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

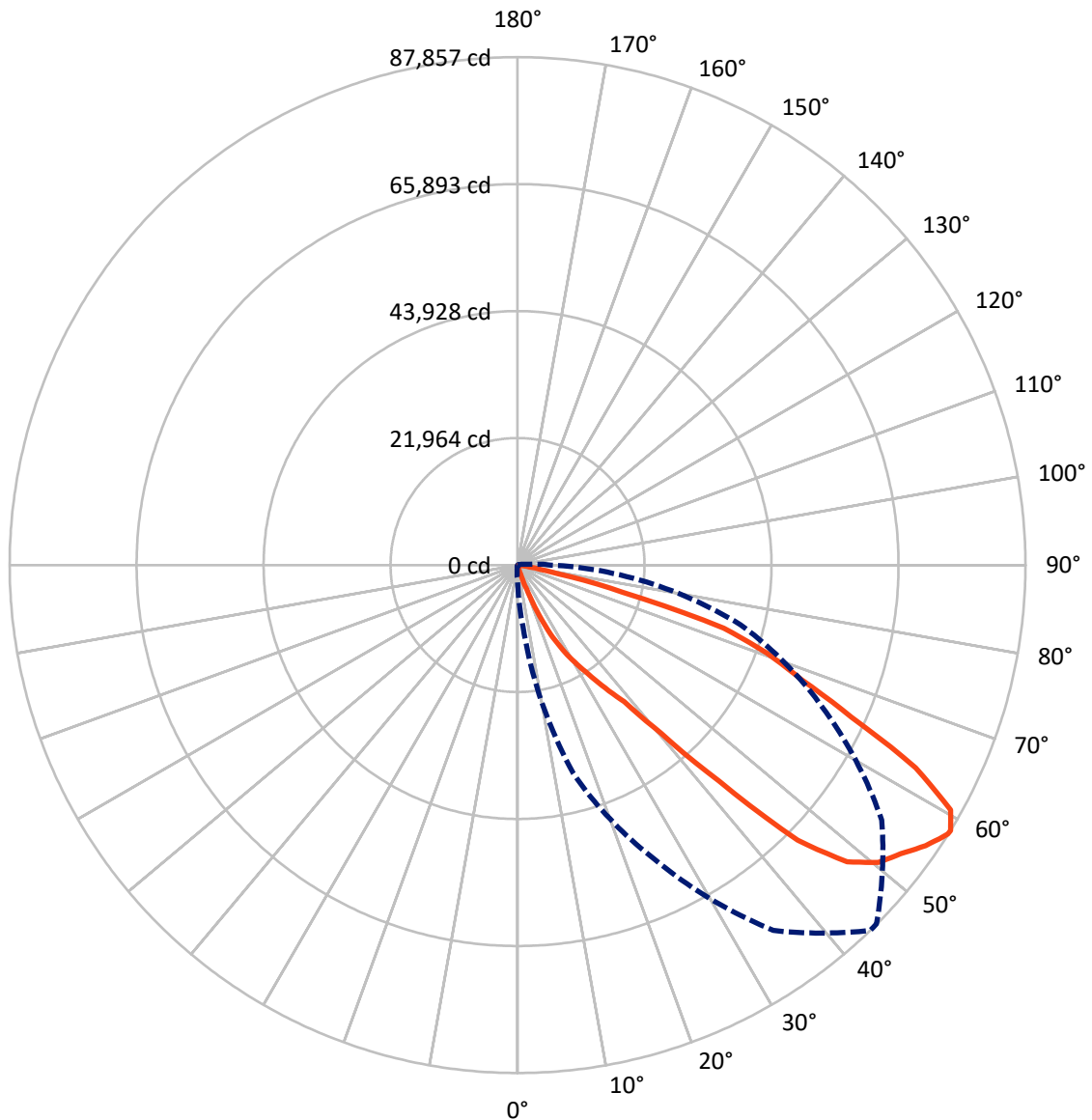
× Max cd
- - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 59.6 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	233.8	0.0	233.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	34013.1	0.0	34013.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	34246.9	0.0	34246.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.4	0.0
10°-20°	75.1	0.2
20°-30°	811.3	2.4
30°-40°	2399.3	7.0
40°-50°	7151.3	20.9
50°-60°	11347.4	33.1
60°-70°	9465.1	27.6
70°-80°	2919.2	8.5
80°-90°	64.8	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°	34246.9	100.0
0°-180°	34246.9	100.0



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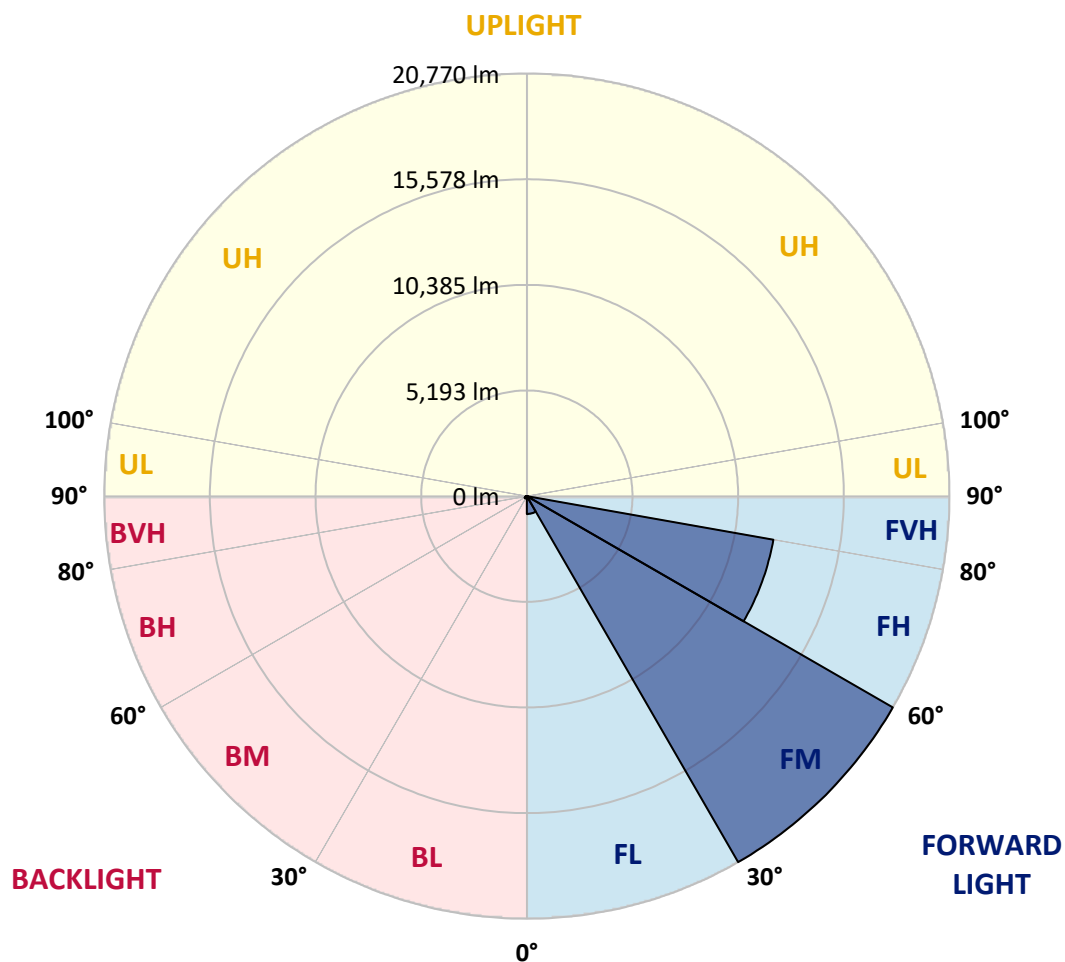
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	876.9	2.6			
FM	(30°-60°)	20770.0	60.6			
FH	(60°-80°)	12304.4	35.9			G5
FVH	(80°-90°)	61.7	0.2			G1/100
BL	(0°-30°)	22.9	0.1	B0/110		
BM	(30°-60°)	128.0	0.4	B0/220		
BH	(60°-80°)	79.8	0.2	B0/110		G0/110
BVH	(80°-90°)	3.1	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°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
2.5°	194.0	194.0	186.3	175.9	165.6	155.2	152.6	147.5	144.9	142.3
5°	201.8	201.8	199.2	191.4	181.1	173.3	173.3	165.6	160.4	155.2
7.5°	207.0	209.6	214.7	212.1	207.0	199.2	199.2	194.0	186.3	173.3
10°	214.7	222.5	232.8	238.0	240.6	240.6	238.0	235.4	222.5	204.4
12.5°	222.5	238.0	263.9	289.8	305.3	326.0	323.4	318.2	284.6	245.8
15°	238.0	261.3	315.6	390.6	507.1	579.5	608.0	582.1	470.8	331.1
17.5°	256.1	294.9	457.9	817.5	1340.1	1588.5	1738.5	1616.9	1071.0	628.7
20°	274.2	359.6	851.1	2118.8	3477.0	4289.4	4514.4	4162.6	2672.4	1197.8
22.5°	305.3	504.5	1725.6	4379.9	7492.1	8710.6	8940.9	7815.5	5047.4	2364.6
25°	370.0	732.1	2975.1	7137.7	11181.3	13238.0	13142.3	11667.7	8188.1	3777.1
27.5°	463.1	1065.9	4498.9	10141.3	14715.2	16528.8	16746.1	14922.2	10914.8	5554.4
30°	597.6	1477.2	6133.9	12547.3	17548.1	19509.1	19545.3	17659.3	13354.4	7114.4
32.5°	727.0	1865.3	7564.6	14873.0	20339.5	22489.4	22649.8	20329.2	15175.7	8739.1
35°	825.3	2118.8	9013.3	16916.8	23154.2	26116.4	26106.1	23350.8	17333.3	10190.4
37.5°	833.0	2372.3	10325.0	19007.2	26719.2	30035.8	30364.4	27327.2	19941.1	11985.9
40°	814.9	2656.9	11985.9	22266.9	33142.9	38231.6	38521.4	34692.5	25172.1	15059.3
42.5°	835.6	3151.0	14681.6	28287.0	43809.4	51117.8	51676.6	47651.1	34788.3	21330.3
45°	944.3	4079.8	20329.2	38358.4	59013.5	67923.4	67737.1	61939.5	45977.3	30876.6
47.5°	1303.9	6353.8	28700.9	48160.8	68730.5	76665.1	76825.5	69739.5	52507.1	38216.1
50°	2005.0	9722.2	35735.1	53342.7	72908.7	80869.1	80719.0	72530.9	54988.1	41830.2
52.5°	2607.8	12159.2	39263.9	55161.4	73444.2	82946.5	82936.1	73265.7	55373.5	42140.7
55°	2757.8	12342.9	39292.3	55259.7	74644.6	85665.5	86007.0	75074.0	55872.8	40785.1
57.5°	2698.3	10927.8	37652.1	55828.9	76781.5	87768.8	87786.9	76825.5	57140.5	39954.6
58°	2646.6	10705.3	37321.0	56152.2	77148.9	87856.7	87812.7	76905.7	58172.7	39923.6
60°	2356.8	9295.3	36030.0	56977.5	76603.0	86050.9	85639.6	75154.2	58020.1	39605.4
62.5°	1852.3	7251.5	34759.8	56022.9	70751.0	77309.3	77480.0	66536.7	52892.5	37750.4
65°	1474.6	5404.4	32110.6	49141.3	58260.7	63486.6	64123.0	54105.9	44148.3	31965.8
67.5°	1174.5	3906.5	26936.5	39124.2	46101.5	52985.7	53448.8	45426.3	34203.6	24491.7
70°	954.6	2641.4	18593.2	28612.9	38024.7	45765.2	45793.6	37737.5	25529.2	16047.6
72.5°	846.0	1829.1	10793.2	20867.3	30832.6	37292.5	36539.7	30623.1	19620.3	9504.9
75°	732.1	1213.3	5293.1	12756.8	18694.1	18820.9	19108.1	14205.6	9807.6	4519.6
77.5°	602.8	861.5	2085.2	3484.8	5606.2	7176.5	7443.0	5639.8	3262.3	1112.4
80°	413.9	408.8	561.4	1068.5	1604.0	2010.1	1875.6	1451.3	853.7	426.9
82.5°	178.5	194.0	253.5	305.3	248.4	240.6	230.2	147.5	113.8	88.0
85°	56.9	51.7	54.3	54.3	44.0	33.6	33.6	15.5	0.0	0.0
87.5°	28.5	23.3	23.3	20.7	12.9	5.2	2.6	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°
150.0	0°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
139.7	2.5°	137.1	137.1	131.9	126.8	124.2	119.0	116.4	113.8	111.2	108.7
150.0	5°	144.9	142.3	134.5	126.8	119.0	111.2	106.1	100.9	95.7	93.1
165.6	7.5°	157.8	152.6	137.1	124.2	113.8	103.5	98.3	90.5	85.4	77.6
183.7	10°	173.3	163.0	142.3	126.8	111.2	98.3	90.5	82.8	75.0	64.7
209.6	12.5°	194.0	175.9	150.0	124.2	106.1	90.5	82.8	72.4	64.7	56.9
243.2	15°	212.1	188.9	152.6	124.2	100.9	82.8	72.4	62.1	54.3	44.0
305.3	17.5°	238.0	199.2	150.0	116.4	93.1	72.4	62.1	54.3	41.4	25.9
452.7	20°	282.0	207.0	144.9	108.7	80.2	59.5	46.6	36.2	18.1	5.2
680.4	22.5°	351.8	227.7	139.7	98.3	69.9	46.6	31.0	12.9	0.0	0.0
1034.8	25°	486.4	263.9	139.7	93.1	62.1	33.6	10.3	0.0	0.0	0.0
1469.5	27.5°	646.8	313.0	139.7	80.2	49.2	18.1	0.0	0.0	0.0	0.0
2002.4	30°	809.8	367.4	139.7	69.9	38.8	2.6	0.0	0.0	0.0	0.0
2465.5	32.5°	965.0	413.9	142.3	59.5	25.9	0.0	0.0	0.0	0.0	0.0
3107.1	35°	1122.8	421.7	139.7	51.7	15.5	0.0	0.0	0.0	0.0	0.0
3893.5	37.5°	1324.6	406.2	131.9	46.6	7.8	0.0	0.0	0.0	0.0	0.0
5122.4	40°	1629.9	413.9	124.2	44.0	2.6	0.0	0.0	0.0	0.0	0.0
7313.6	42.5°	2193.8	447.6	113.8	44.0	0.0	0.0	0.0	0.0	0.0	0.0
11649.6	45°	3792.6	600.2	103.5	46.6	0.0	0.0	0.0	0.0	0.0	0.0
17488.6	47.5°	6273.6	1078.8	100.9	46.6	0.0	0.0	0.0	0.0	0.0	0.0
21066.5	50°	8007.0	1358.2	106.1	49.2	0.0	0.0	0.0	0.0	0.0	0.0
21514.0	52.5°	7994.0	1513.4	111.2	51.7	10.3	0.0	0.0	0.0	0.0	0.0
19829.9	55°	7106.7	1541.9	119.0	56.9	33.6	0.0	0.0	0.0	0.0	0.0
17041.0	57.5°	5939.9	1407.4	137.1	69.9	62.1	0.0	0.0	0.0	0.0	0.0
16603.8	58°	5732.9	1345.3	142.3	72.4	67.3	0.0	0.0	0.0	0.0	0.0
14402.2	60°	4698.1	1096.9	181.1	90.5	90.5	0.0	0.0	0.0	0.0	0.0
11807.4	62.5°	3244.2	957.2	207.0	116.4	93.1	0.0	0.0	0.0	0.0	0.0
8705.5	65°	2294.7	864.1	225.1	124.2	75.0	0.0	0.0	0.0	0.0	0.0
6185.7	67.5°	1715.2	796.8	248.4	126.8	38.8	0.0	0.0	0.0	0.0	0.0
3880.6	70°	1314.2	747.7	305.3	134.5	10.3	0.0	0.0	0.0	0.0	0.0
2312.8	72.5°	1071.0	690.7	370.0	139.7	0.0	0.0	0.0	0.0	0.0	0.0
1386.7	75°	887.4	623.5	357.0	152.6	0.0	0.0	0.0	0.0	0.0	0.0
739.9	77.5°	589.9	483.8	326.0	152.6	0.0	0.0	0.0	0.0	0.0	0.0
263.9	80°	207.0	191.4	253.5	134.5	0.0	0.0	0.0	0.0	0.0	0.0
54.3	82.5°	31.0	25.9	36.2	46.6	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°
150.0	0°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
106.1	2.5°	106.1	106.1	103.5	106.1	106.1	111.2	124.2	142.3	163.0	170.7
90.5	5°	88.0	85.4	82.8	82.8	82.8	90.5	100.9	121.6	144.9	155.2
75.0	7.5°	72.4	69.9	67.3	64.7	64.7	69.9	82.8	106.1	129.4	139.7
62.1	10°	59.5	54.3	51.7	49.2	49.2	54.3	67.3	90.5	116.4	126.8
51.7	12.5°	49.2	41.4	36.2	33.6	31.0	38.8	51.7	72.4	100.9	113.8
38.8	15°	33.6	25.9	18.1	15.5	12.9	20.7	33.6	56.9	85.4	100.9
20.7	17.5°	18.1	7.8	2.6	0.0	0.0	5.2	15.5	41.4	69.9	82.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	51.7	64.7
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	31.0	44.0
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	23.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	20.7
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°
150.0	0°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
178.5	2.5°	183.7	181.1	175.9	170.7	170.7	170.7	178.5	186.3	194.0	194.0
160.4	5°	170.7	170.7	168.2	163.0	163.0	165.6	175.9	188.9	199.2	201.8
147.5	7.5°	157.8	163.0	157.8	155.2	157.8	160.4	170.7	186.3	201.8	207.0
137.1	10°	150.0	152.6	152.6	150.0	150.0	155.2	165.6	186.3	207.0	214.7
124.2	12.5°	139.7	144.9	142.3	142.3	142.3	147.5	160.4	183.7	212.1	222.5
111.2	15°	129.4	137.1	137.1	134.5	134.5	137.1	155.2	181.1	219.9	238.0
95.7	17.5°	119.0	126.8	129.4	124.2	124.2	129.4	147.5	181.1	225.1	256.1
77.6	20°	98.3	111.2	119.0	111.2	111.2	116.4	134.5	170.7	227.7	274.2
56.9	22.5°	77.6	90.5	100.9	98.3	98.3	100.9	124.2	163.0	230.2	305.3
33.6	25°	56.9	69.9	77.6	82.8	82.8	90.5	113.8	157.8	240.6	370.0
15.5	27.5°	33.6	49.2	59.5	64.7	67.3	77.6	106.1	152.6	258.7	463.1
0.0	30°	15.5	28.5	41.4	51.7	51.7	69.9	98.3	147.5	282.0	597.6
0.0	32.5°	0.0	12.9	20.7	36.2	38.8	56.9	90.5	142.3	315.6	727.0
0.0	35°	0.0	0.0	10.3	28.5	28.5	46.6	82.8	137.1	367.4	825.3
0.0	37.5°	0.0	0.0	0.0	20.7	23.3	41.4	80.2	134.5	377.7	833.0
0.0	40°	0.0	0.0	0.0	15.5	18.1	38.8	80.2	137.1	341.5	814.9
0.0	42.5°	0.0	0.0	0.0	10.3	12.9	38.8	80.2	142.3	307.9	835.6
0.0	45°	0.0	0.0	0.0	7.8	10.3	41.4	77.6	139.7	289.8	944.3
0.0	47.5°	0.0	0.0	0.0	10.3	15.5	41.4	75.0	137.1	292.3	1303.9
0.0	50°	0.0	0.0	0.0	12.9	18.1	41.4	77.6	131.9	320.8	2005.0
0.0	52.5°	0.0	0.0	0.0	10.3	15.5	46.6	85.4	129.4	349.3	2607.8
0.0	55°	0.0	0.0	0.0	2.6	7.8	59.5	93.1	129.4	393.2	2757.8
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	67.3	106.1	137.1	465.7	2698.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	67.3	108.7	137.1	470.8	2646.6
0.0	60°	0.0	0.0	0.0	0.0	0.0	67.3	119.0	152.6	507.1	2356.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	56.9	142.3	191.4	527.8	1852.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	46.6	168.2	209.6	543.3	1474.6
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	44.0	173.3	212.1	551.0	1174.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	46.6	170.7	227.7	576.9	954.6
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	51.7	155.2	250.9	576.9	846.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	54.3	144.9	282.0	525.2	732.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	51.7	142.3	328.6	468.3	602.8
0.0	80°	5.2	7.8	7.8	5.2	5.2	44.0	139.7	333.7	398.4	413.9
2.6	82.5°	15.5	20.7	18.1	12.9	12.9	38.8	124.2	279.4	207.0	178.5
15.5	85°	28.5	33.6	33.6	28.5	28.5	36.2	77.6	100.9	69.9	56.9
28.5	87.5°	38.8	44.0	44.0	38.8	38.8	36.2	33.6	31.0	28.5	28.5
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

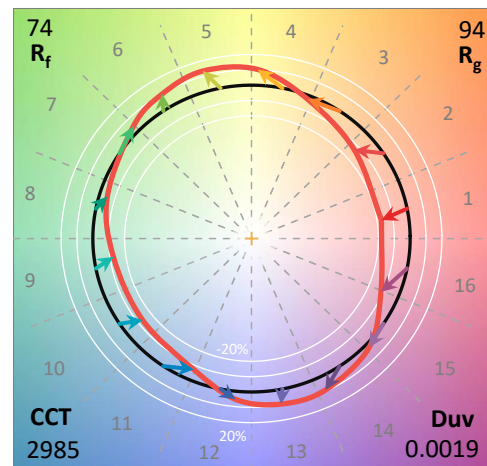
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

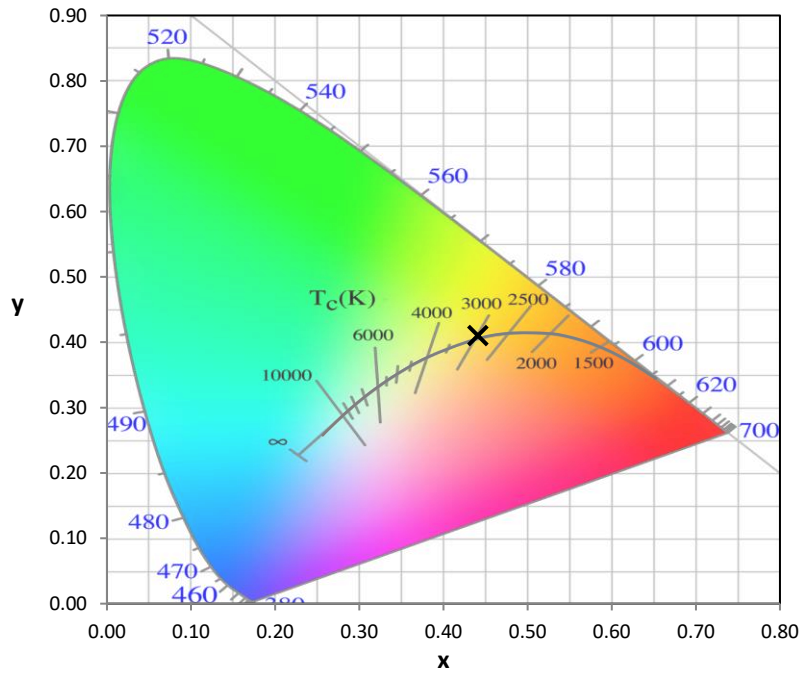
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

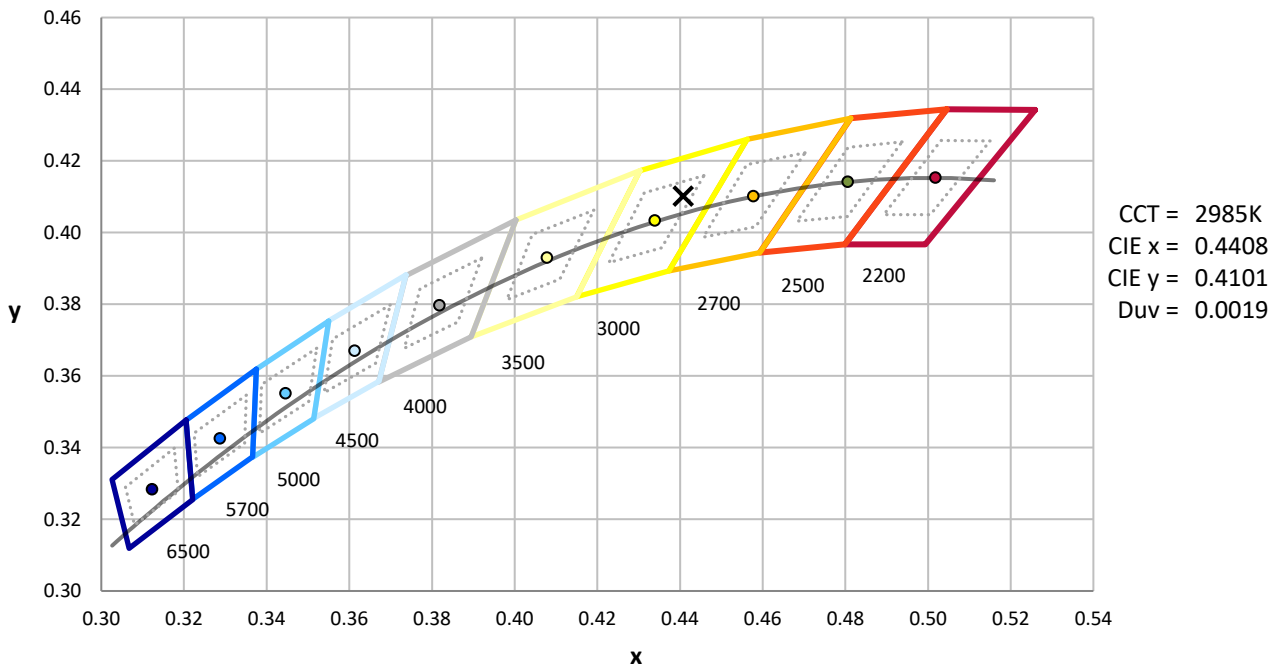
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



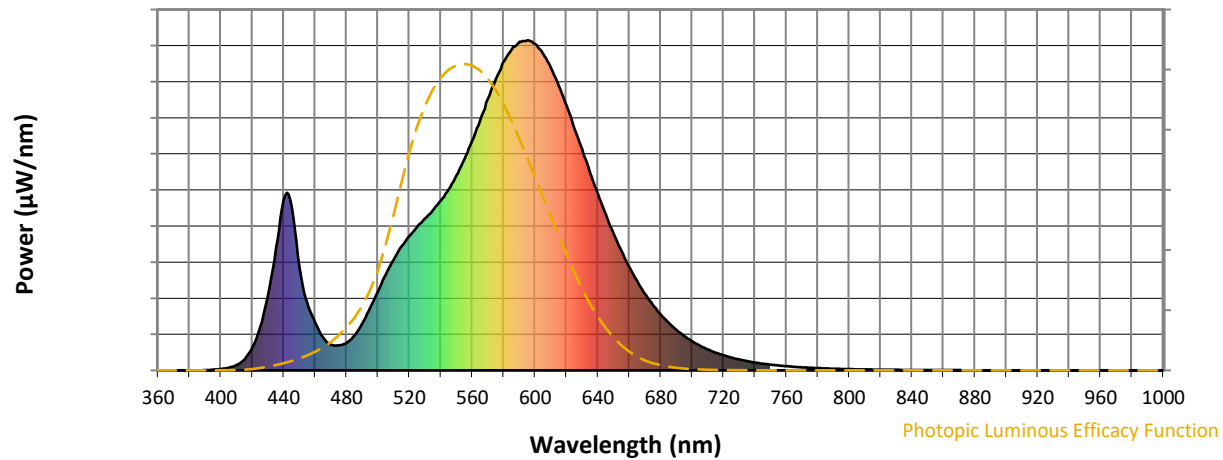
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

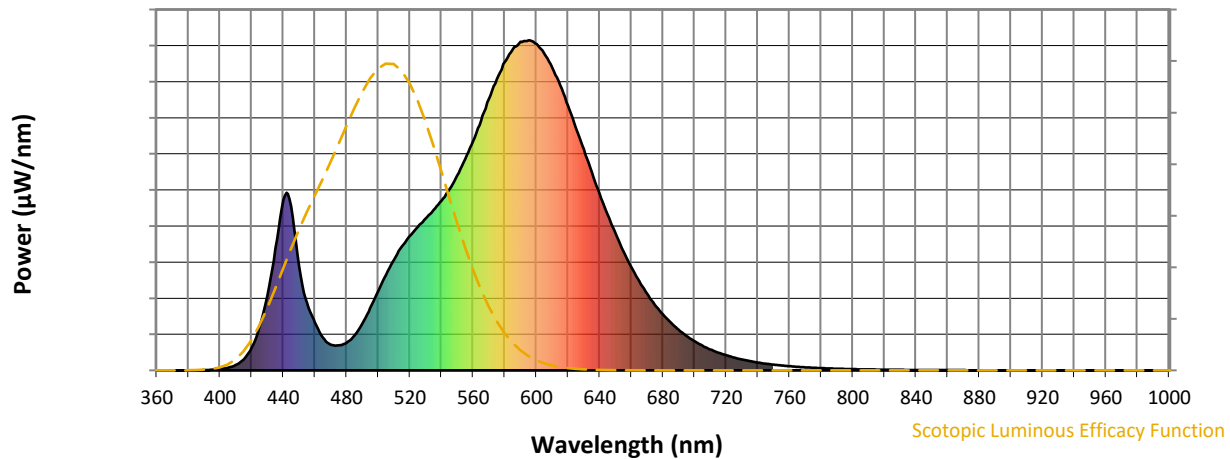


Photopic Lumens: NR

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



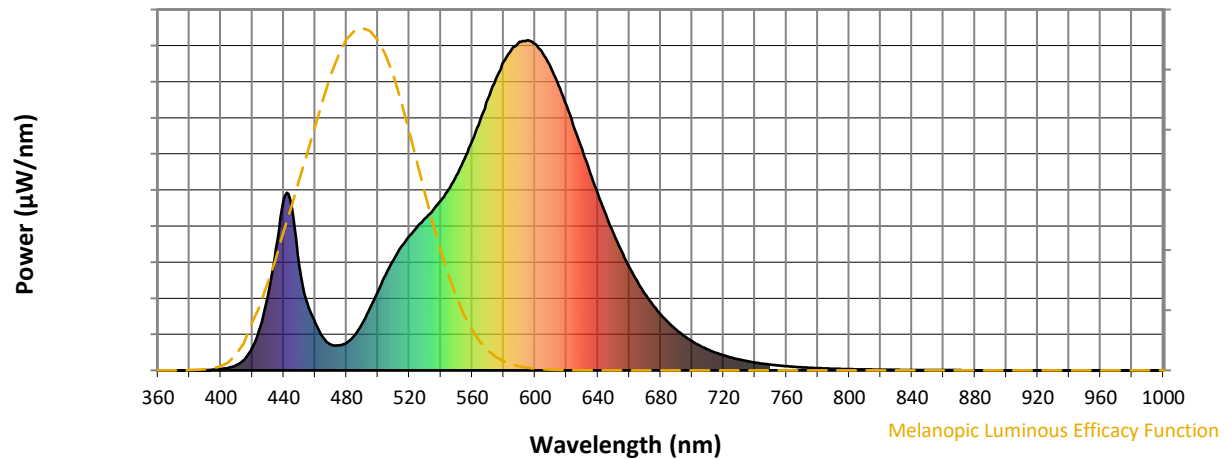
Scotopic Lumens: NR

S/P: 1.19

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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

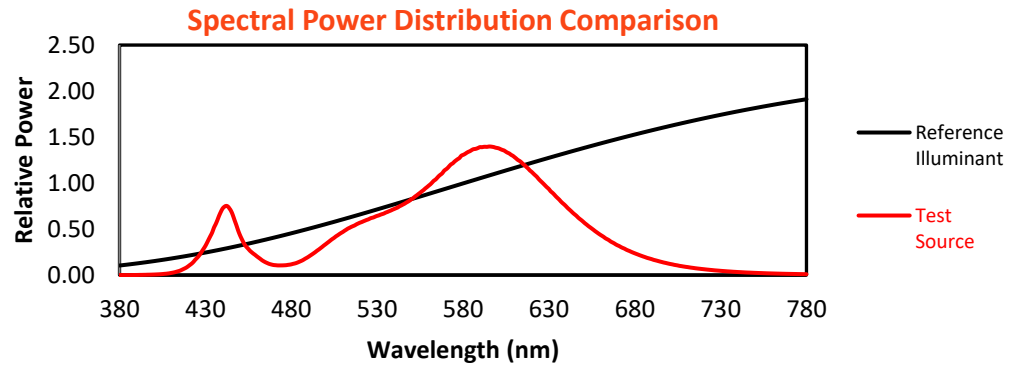
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

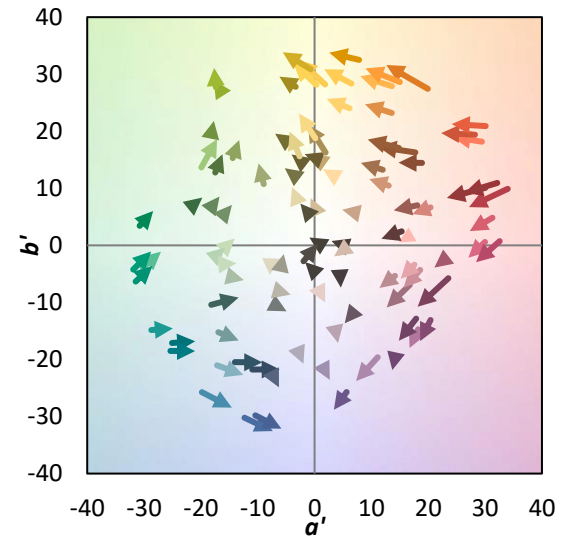
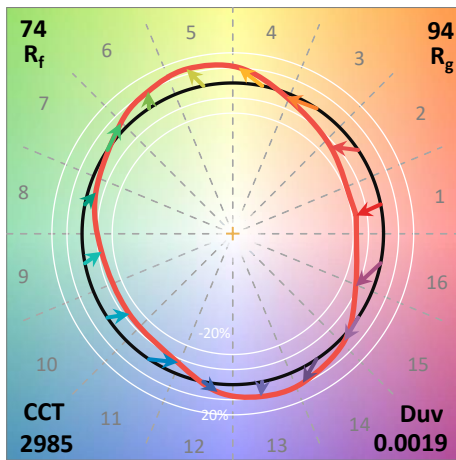
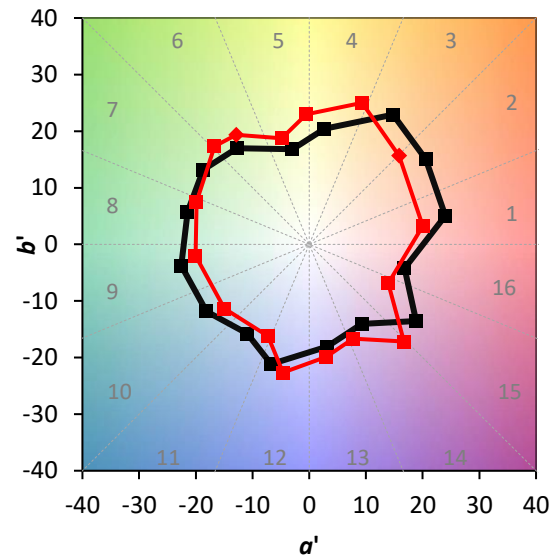
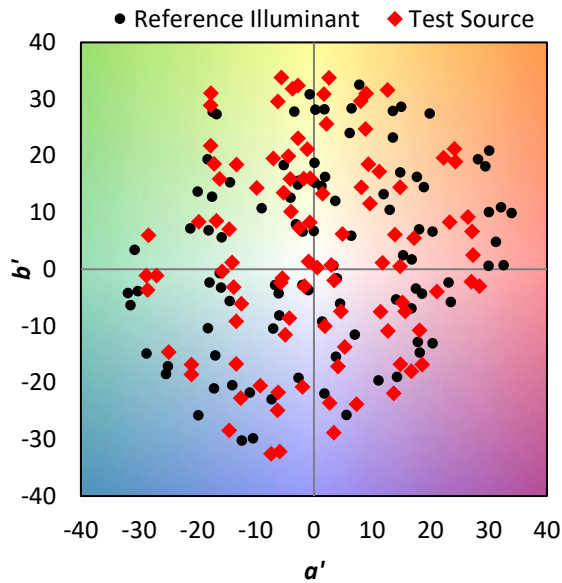
TM-30-18

Summary

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

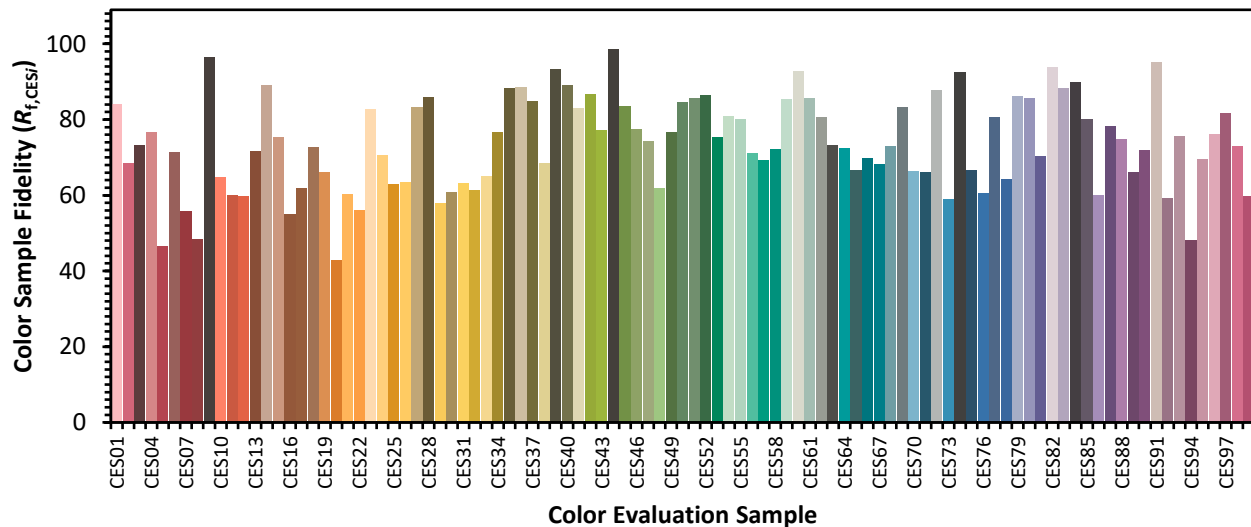


Color Vector Graphics

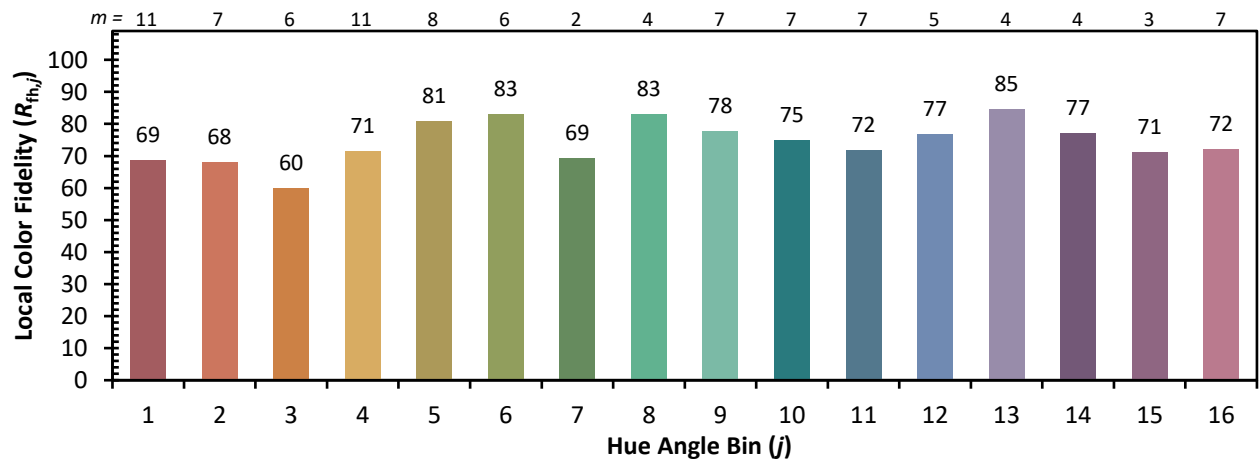
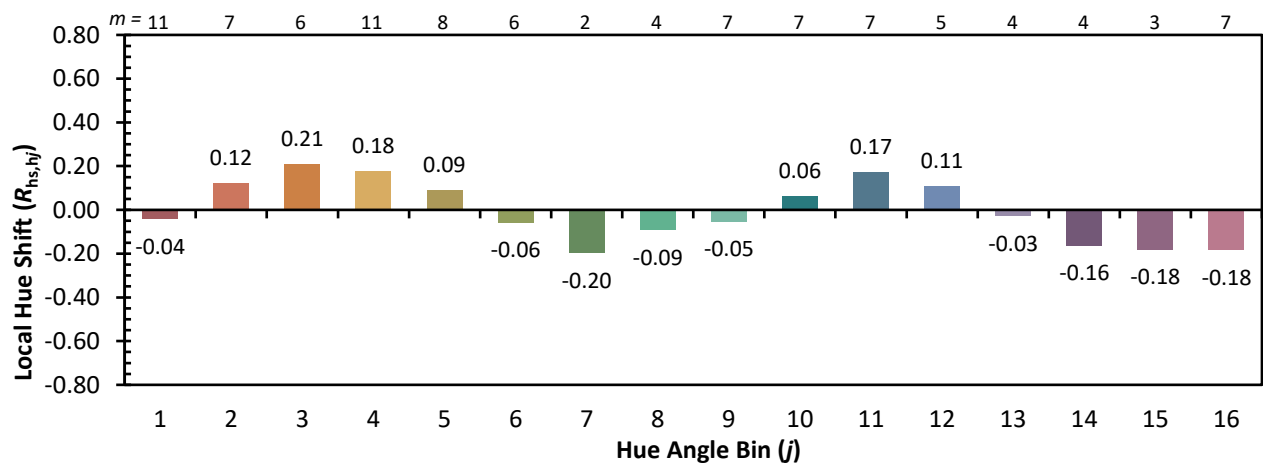
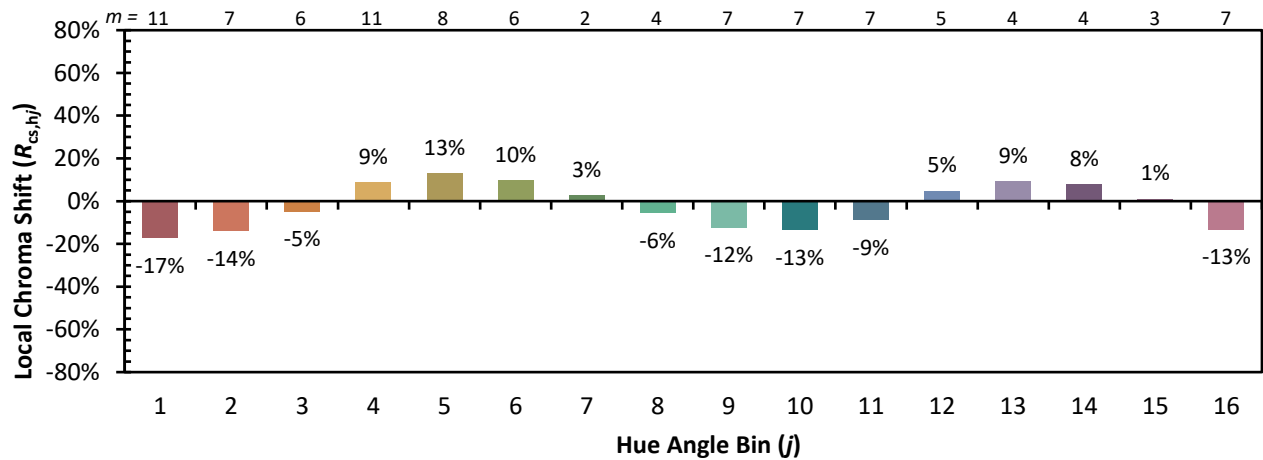


Individual Sample Fidelity Index ($R_{f,i}$)

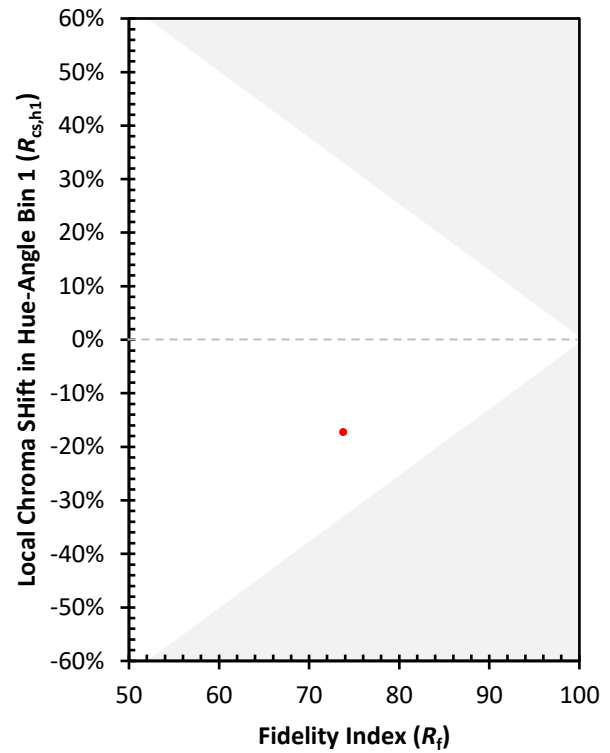
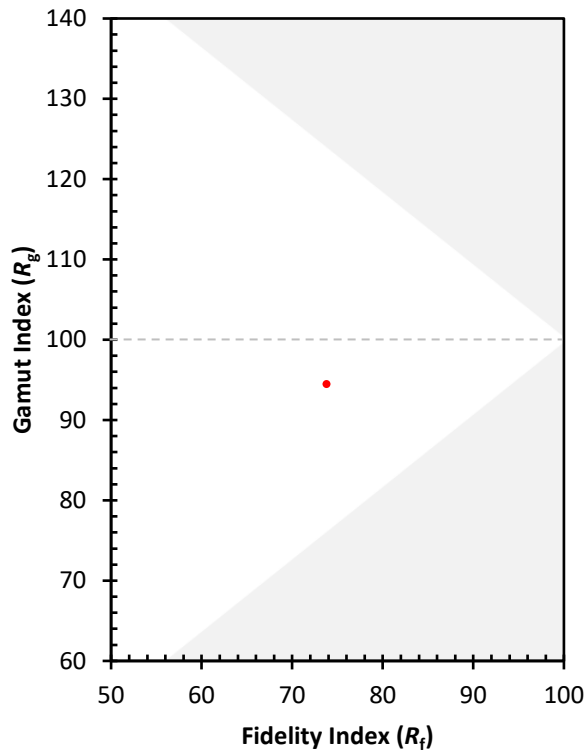
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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