

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: P1049574

Luminaire Tested: **GALN-SA2B-730-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049574
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8112.1 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

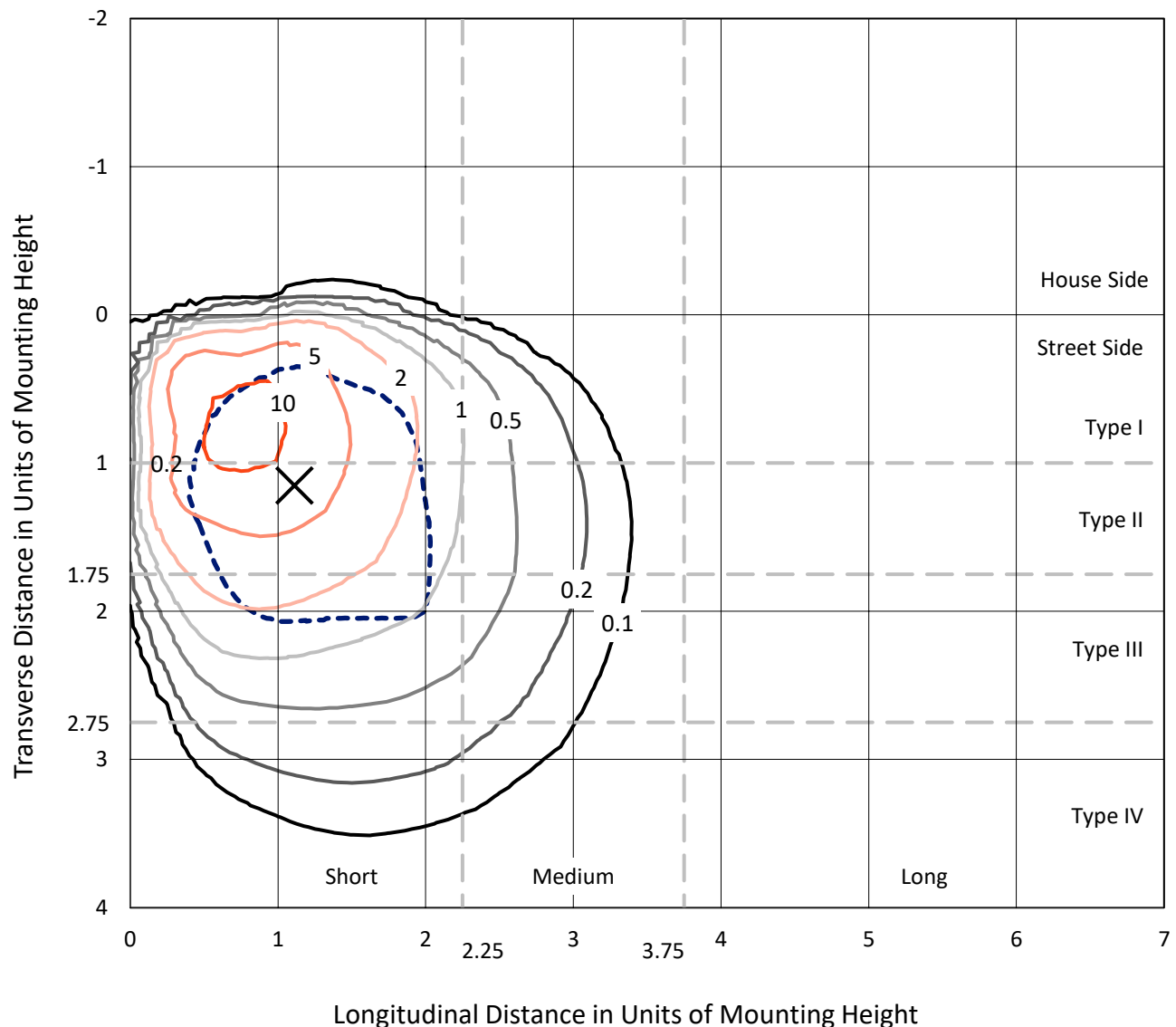
Input Watts (W): 72.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

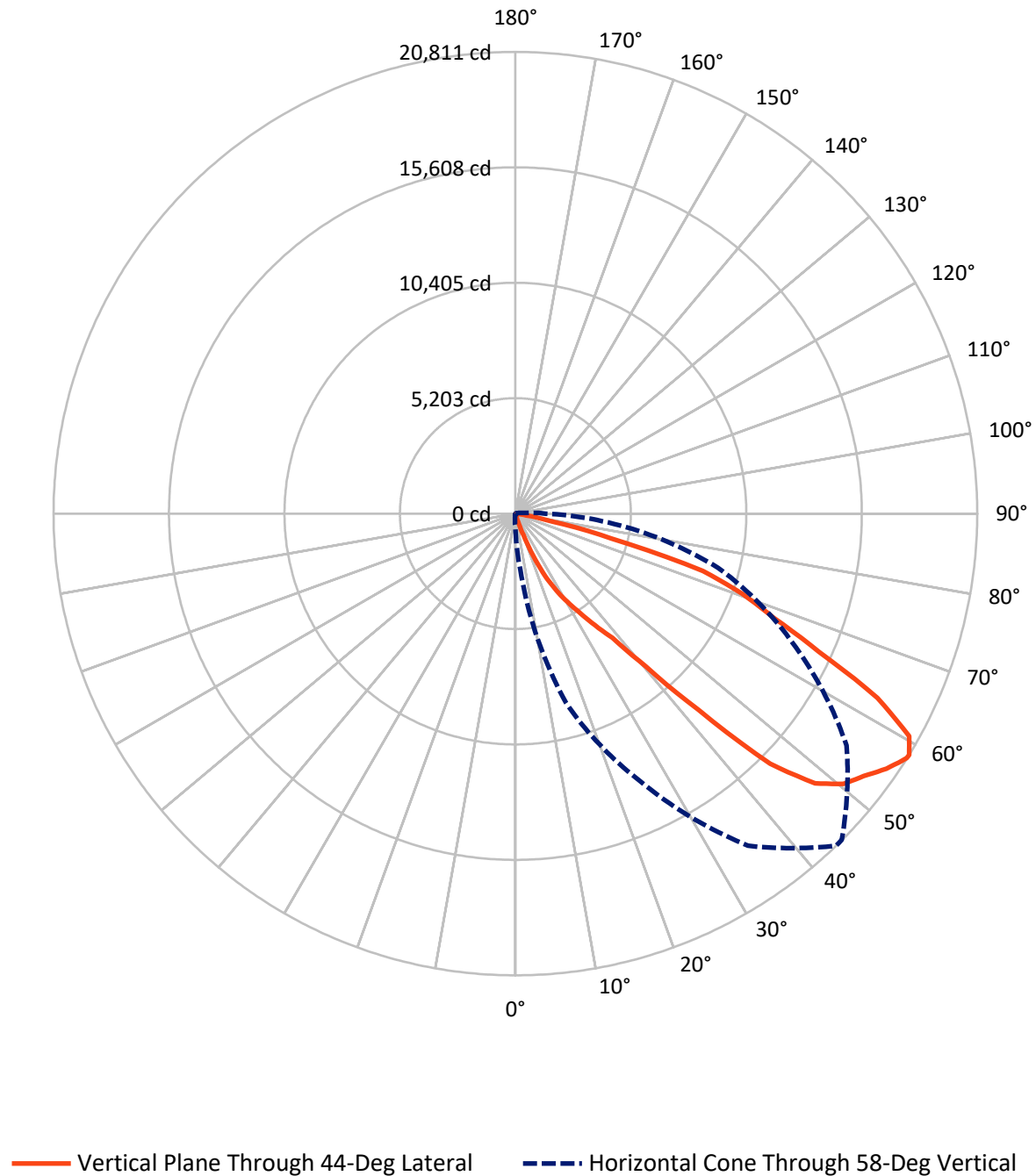


Based on 20 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.4	0.0	55.4
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	8056.7	0.0	8056.7
	% Fixture	99.3	0.0	99.3
Total	Lumens	8112.1	0.0	8112.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.0
10°-20°	17.8	0.2
20°-30°	192.2	2.4
30°-40°	568.3	7.0
40°-50°	1693.9	20.9
50°-60°	2687.9	33.1
60°-70°	2242.0	27.6
70°-80°	691.5	8.5
80°-90°	15.4	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°	8112.1	100.0
0°-180°	8112.1	100.0



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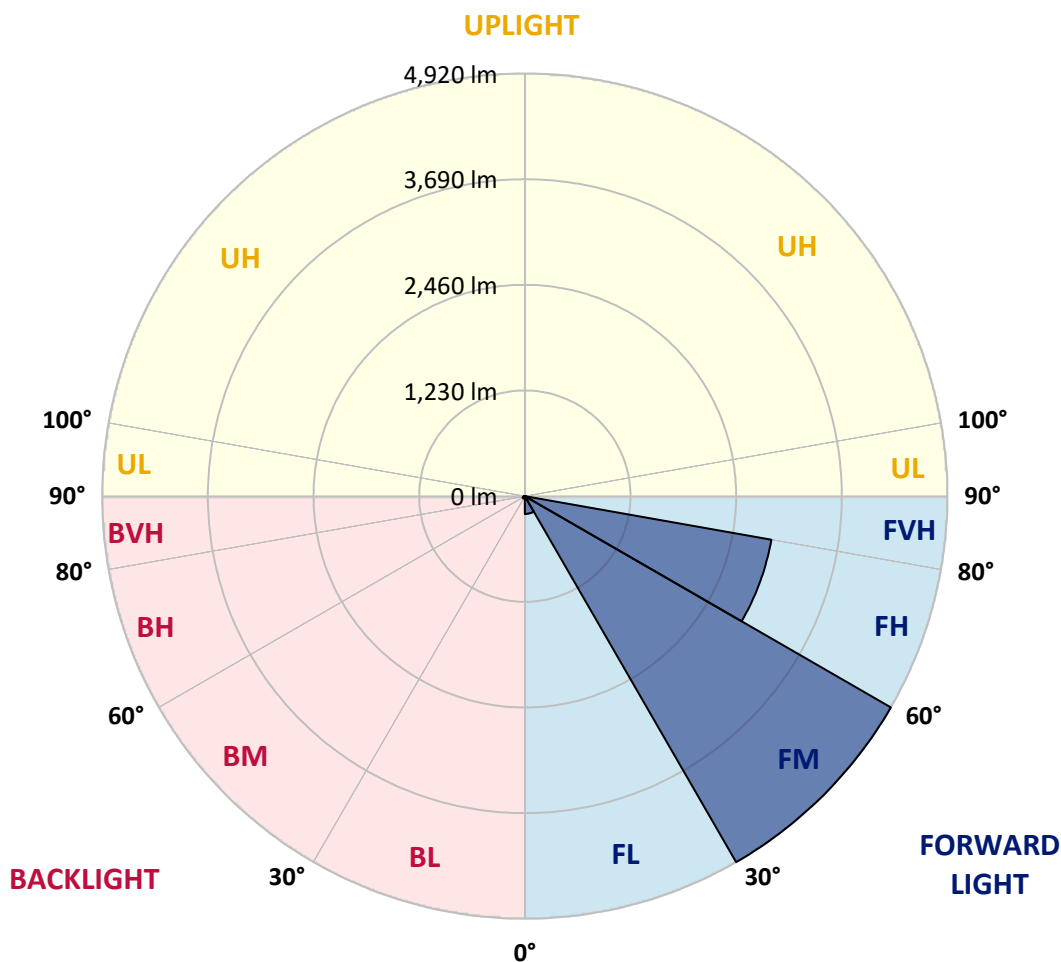
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.7	2.6			
FM	(30°-60°)	4919.8	60.6			
FH	(60°-80°)	2914.6	35.9			G2/5000
FVH	(80°-90°)	14.6	0.2			G1/100
BL	(0°-30°)	5.4	0.1	B0/110		
BM	(30°-60°)	30.3	0.4	B0/220		
BH	(60°-80°)	18.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
2.5°	46.0	46.0	44.1	41.7	39.2	36.8	36.2	34.9	34.3	33.7
5°	47.8	47.8	47.2	45.3	42.9	41.1	41.1	39.2	38.0	36.8
7.5°	49.0	49.6	50.9	50.2	49.0	47.2	47.2	46.0	44.1	41.1
10°	50.9	52.7	55.2	56.4	57.0	57.0	56.4	55.8	52.7	48.4
12.5°	52.7	56.4	62.5	68.6	72.3	77.2	76.6	75.4	67.4	58.2
15°	56.4	61.9	74.8	92.5	120.1	137.3	144.0	137.9	111.5	78.4
17.5°	60.7	69.9	108.5	193.6	317.4	376.3	411.8	383.0	253.7	148.9
20°	65.0	85.2	201.6	501.9	823.6	1016.0	1069.3	986.0	633.0	283.7
22.5°	72.3	119.5	408.7	1037.5	1774.7	2063.3	2117.8	1851.3	1195.6	560.1
25°	87.6	173.4	704.7	1690.7	2648.5	3135.7	3113.0	2763.7	1939.5	894.7
27.5°	109.7	252.5	1065.7	2402.2	3485.6	3915.2	3966.7	3534.6	2585.4	1315.7
30°	141.6	349.9	1453.0	2972.1	4156.6	4621.1	4629.7	4183.0	3163.3	1685.2
32.5°	172.2	441.8	1791.8	3523.0	4817.9	5327.1	5365.1	4815.4	3594.7	2070.0
35°	195.5	501.9	2135.0	4007.1	5484.6	6186.2	6183.8	5531.2	4105.8	2413.8
37.5°	197.3	561.9	2445.7	4502.3	6329.0	7114.6	7192.5	6473.0	4723.5	2839.1
40°	193.0	629.3	2839.1	5274.4	7850.6	9056.0	9124.6	8217.7	5962.6	3567.1
42.5°	197.9	746.4	3477.7	6700.4	10377.2	12108.4	12240.7	11287.2	8240.4	5052.6
45°	223.7	966.4	4815.4	9086.0	13978.7	16089.1	16045.0	14671.7	10890.7	7313.8
47.5°	308.9	1505.0	6798.4	11407.9	16280.3	18159.8	18197.8	16519.3	12437.5	9052.3
50°	474.9	2302.9	8464.6	12635.4	17270.0	19155.6	19120.1	17180.5	13025.1	9908.4
52.5°	617.7	2880.2	9300.5	13066.2	17396.9	19647.7	19645.2	17354.6	13116.4	9981.9
55°	653.2	2923.7	9307.3	13089.5	17681.2	20291.7	20372.6	17782.9	13234.7	9660.8
57.5°	639.2	2588.5	8918.7	13224.3	18187.4	20790.0	20794.2	18197.8	13535.0	9464.1
58°	626.9	2535.8	8840.3	13300.9	18274.4	20810.8	20800.4	18216.8	13779.5	9456.8
60°	558.3	2201.8	8534.5	13496.4	18145.1	20383.1	20285.6	17801.9	13743.3	9381.4
62.5°	438.8	1717.7	8233.6	13270.3	16758.9	18312.4	18352.8	15760.7	12528.8	8942.0
65°	349.3	1280.1	7606.1	11640.2	13800.3	15038.2	15188.9	12816.2	10457.5	7571.8
67.5°	278.2	925.3	6380.5	9267.4	10920.2	12550.8	12660.5	10760.2	8101.9	5801.4
70°	226.1	625.7	4404.2	6777.6	9007.0	10840.5	10847.2	8939.0	6047.1	3801.2
72.5°	200.4	433.3	2556.6	4942.9	7303.4	8833.6	8655.2	7253.8	4647.5	2251.4
75°	173.4	287.4	1253.8	3021.7	4428.1	4458.1	4526.2	3364.9	2323.1	1070.6
77.5°	142.8	204.1	493.9	825.4	1327.9	1699.9	1763.0	1335.9	772.7	263.5
80°	98.0	96.8	133.0	253.1	379.9	476.1	444.3	343.8	202.2	101.1
82.5°	42.3	46.0	60.1	72.3	58.8	57.0	54.5	34.9	27.0	20.8
85°	13.5	12.3	12.9	12.9	10.4	8.0	8.0	3.7	0.0	0.0
87.5°	6.7	5.5	5.5	4.9	3.1	1.2	0.6	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°
35.5	0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
33.1	2.5°	32.5	32.5	31.3	30.0	29.4	28.2	27.6	27.0	26.4	25.7
35.5	5°	34.3	33.7	31.9	30.0	28.2	26.4	25.1	23.9	22.7	22.1
39.2	7.5°	37.4	36.2	32.5	29.4	27.0	24.5	23.3	21.4	20.2	18.4
43.5	10°	41.1	38.6	33.7	30.0	26.4	23.3	21.4	19.6	17.8	15.3
49.6	12.5°	46.0	41.7	35.5	29.4	25.1	21.4	19.6	17.2	15.3	13.5
57.6	15°	50.2	44.7	36.2	29.4	23.9	19.6	17.2	14.7	12.9	10.4
72.3	17.5°	56.4	47.2	35.5	27.6	22.1	17.2	14.7	12.9	9.8	6.1
107.2	20°	66.8	49.0	34.3	25.7	19.0	14.1	11.0	8.6	4.3	1.2
161.2	22.5°	83.3	53.9	33.1	23.3	16.5	11.0	7.4	3.1	0.0	0.0
245.1	25°	115.2	62.5	33.1	22.1	14.7	8.0	2.5	0.0	0.0	0.0
348.1	27.5°	153.2	74.1	33.1	19.0	11.6	4.3	0.0	0.0	0.0	0.0
474.3	30°	191.8	87.0	33.1	16.5	9.2	0.6	0.0	0.0	0.0	0.0
584.0	32.5°	228.6	98.0	33.7	14.1	6.1	0.0	0.0	0.0	0.0	0.0
736.0	35°	266.0	99.9	33.1	12.3	3.7	0.0	0.0	0.0	0.0	0.0
922.3	37.5°	313.8	96.2	31.3	11.0	1.8	0.0	0.0	0.0	0.0	0.0
1213.4	40°	386.1	98.0	29.4	10.4	0.6	0.0	0.0	0.0	0.0	0.0
1732.4	42.5°	519.7	106.0	27.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0
2759.5	45°	898.4	142.2	24.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0
4142.5	47.5°	1486.0	255.5	23.9	11.0	0.0	0.0	0.0	0.0	0.0	0.0
4990.1	50°	1896.6	321.7	25.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0
5096.1	52.5°	1893.6	358.5	26.4	12.3	2.5	0.0	0.0	0.0	0.0	0.0
4697.1	55°	1683.4	365.2	28.2	13.5	8.0	0.0	0.0	0.0	0.0	0.0
4036.5	57.5°	1407.0	333.4	32.5	16.5	14.7	0.0	0.0	0.0	0.0	0.0
3933.0	58°	1358.0	318.7	33.7	17.2	15.9	0.0	0.0	0.0	0.0	0.0
3411.5	60°	1112.9	259.8	42.9	21.4	21.4	0.0	0.0	0.0	0.0	0.0
2796.8	62.5°	768.5	226.7	49.0	27.6	22.1	0.0	0.0	0.0	0.0	0.0
2062.1	65°	543.6	204.7	53.3	29.4	17.8	0.0	0.0	0.0	0.0	0.0
1465.2	67.5°	406.3	188.7	58.8	30.0	9.2	0.0	0.0	0.0	0.0	0.0
919.2	70°	311.3	177.1	72.3	31.9	2.5	0.0	0.0	0.0	0.0	0.0
547.8	72.5°	253.7	163.6	87.6	33.1	0.0	0.0	0.0	0.0	0.0	0.0
328.5	75°	210.2	147.7	84.6	36.2	0.0	0.0	0.0	0.0	0.0	0.0
175.3	77.5°	139.7	114.6	77.2	36.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5	80°	49.0	45.3	60.1	31.9	0.0	0.0	0.0	0.0	0.0	0.0
12.9	82.5°	7.4	6.1	8.6	11.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
35.5	0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
25.1	2.5°	25.1	25.1	24.5	25.1	25.1	26.4	29.4	33.7	38.6	40.4
21.4	5°	20.8	20.2	19.6	19.6	19.6	21.4	23.9	28.8	34.3	36.8
17.8	7.5°	17.2	16.5	15.9	15.3	15.3	16.5	19.6	25.1	30.6	33.1
14.7	10°	14.1	12.9	12.3	11.6	11.6	12.9	15.9	21.4	27.6	30.0
12.3	12.5°	11.6	9.8	8.6	8.0	7.4	9.2	12.3	17.2	23.9	27.0
9.2	15°	8.0	6.1	4.3	3.7	3.1	4.9	8.0	13.5	20.2	23.9
4.9	17.5°	4.3	1.8	0.6	0.0	0.0	1.2	3.7	9.8	16.5	19.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.3	15.3
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	7.4	10.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.5
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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	1.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.9
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°
35.5	0°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
42.3	2.5°	43.5	42.9	41.7	40.4	40.4	40.4	42.3	44.1	46.0	46.0
38.0	5°	40.4	40.4	39.8	38.6	38.6	39.2	41.7	44.7	47.2	47.8
34.9	7.5°	37.4	38.6	37.4	36.8	37.4	38.0	40.4	44.1	47.8	49.0
32.5	10°	35.5	36.2	36.2	35.5	35.5	36.8	39.2	44.1	49.0	50.9
29.4	12.5°	33.1	34.3	33.7	33.7	33.7	34.9	38.0	43.5	50.2	52.7
26.4	15°	30.6	32.5	32.5	31.9	31.9	32.5	36.8	42.9	52.1	56.4
22.7	17.5°	28.2	30.0	30.6	29.4	29.4	30.6	34.9	42.9	53.3	60.7
18.4	20°	23.3	26.4	28.2	26.4	26.4	27.6	31.9	40.4	53.9	65.0
13.5	22.5°	18.4	21.4	23.9	23.3	23.3	23.9	29.4	38.6	54.5	72.3
8.0	25°	13.5	16.5	18.4	19.6	19.6	21.4	27.0	37.4	57.0	87.6
3.7	27.5°	8.0	11.6	14.1	15.3	15.9	18.4	25.1	36.2	61.3	109.7
0.0	30°	3.7	6.7	9.8	12.3	12.3	16.5	23.3	34.9	66.8	141.6
0.0	32.5°	0.0	3.1	4.9	8.6	9.2	13.5	21.4	33.7	74.8	172.2
0.0	35°	0.0	0.0	2.5	6.7	6.7	11.0	19.6	32.5	87.0	195.5
0.0	37.5°	0.0	0.0	0.0	4.9	5.5	9.8	19.0	31.9	89.5	197.3
0.0	40°	0.0	0.0	0.0	3.7	4.3	9.2	19.0	32.5	80.9	193.0
0.0	42.5°	0.0	0.0	0.0	2.5	3.1	9.2	19.0	33.7	72.9	197.9
0.0	45°	0.0	0.0	0.0	1.8	2.5	9.8	18.4	33.1	68.6	223.7
0.0	47.5°	0.0	0.0	0.0	2.5	3.7	9.8	17.8	32.5	69.2	308.9
0.0	50°	0.0	0.0	0.0	3.1	4.3	9.8	18.4	31.3	76.0	474.9
0.0	52.5°	0.0	0.0	0.0	2.5	3.7	11.0	20.2	30.6	82.7	617.7
0.0	55°	0.0	0.0	0.0	0.6	1.8	14.1	22.1	30.6	93.1	653.2
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	15.9	25.1	32.5	110.3	639.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	15.9	25.7	32.5	111.5	626.9
0.0	60°	0.0	0.0	0.0	0.0	0.0	15.9	28.2	36.2	120.1	558.3
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	13.5	33.7	45.3	125.0	438.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	11.0	39.8	49.6	128.7	349.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	10.4	41.1	50.2	130.5	278.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	11.0	40.4	53.9	136.7	226.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	12.3	36.8	59.4	136.7	200.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	12.9	34.3	66.8	124.4	173.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	12.3	33.7	77.8	110.9	142.8
0.0	80°	1.2	1.8	1.8	1.2	1.2	10.4	33.1	79.1	94.4	98.0
0.6	82.5°	3.7	4.9	4.3	3.1	3.1	9.2	29.4	66.2	49.0	42.3
3.7	85°	6.7	8.0	8.0	6.7	6.7	8.6	18.4	23.9	16.5	13.5
6.7	87.5°	9.2	10.4	10.4	9.2	9.2	8.6	8.0	7.4	6.7	6.7
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

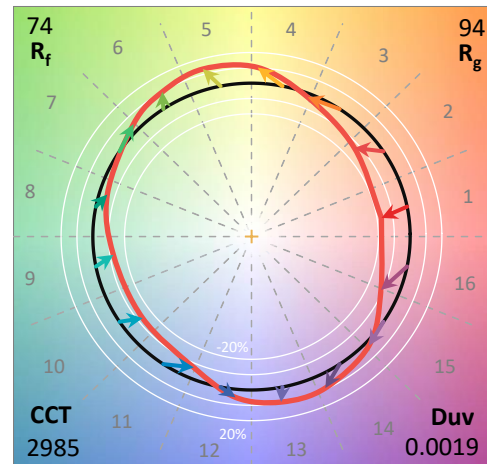
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

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

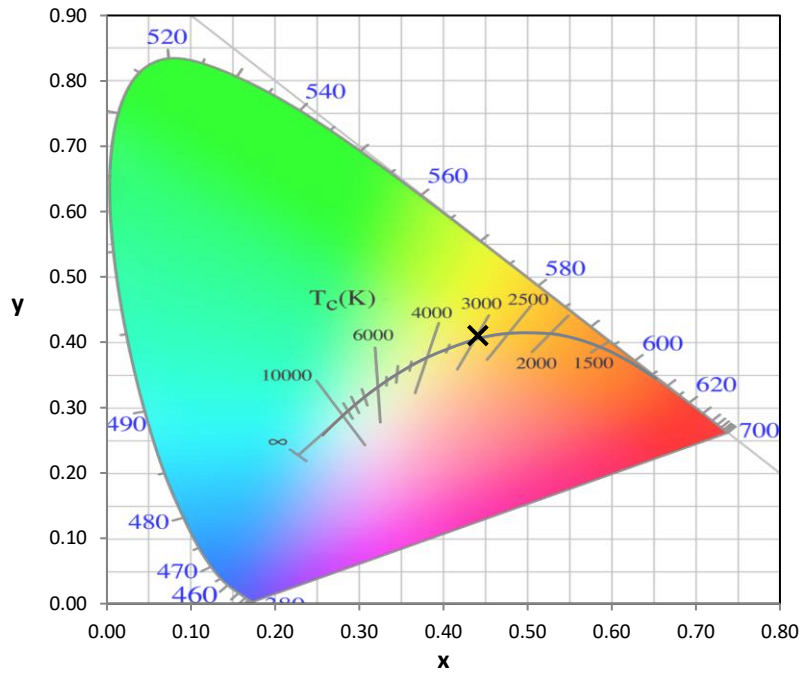
Stabilization Time: 36M
 Operation Time: 1H 36M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

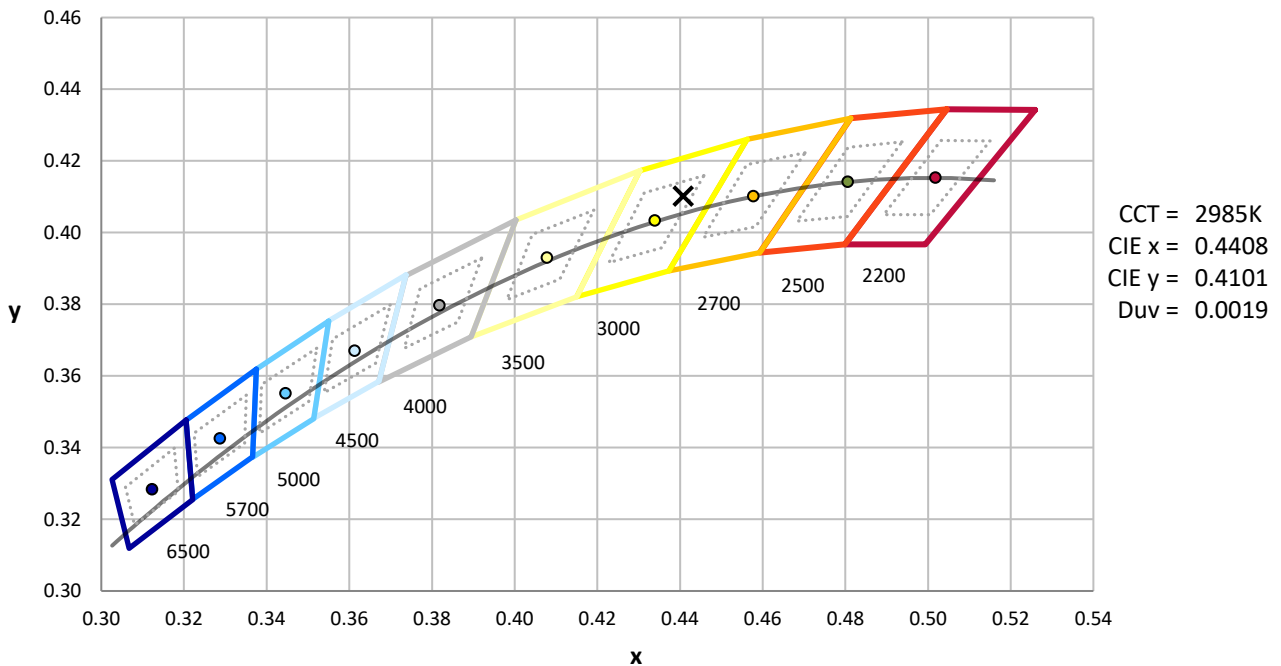
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



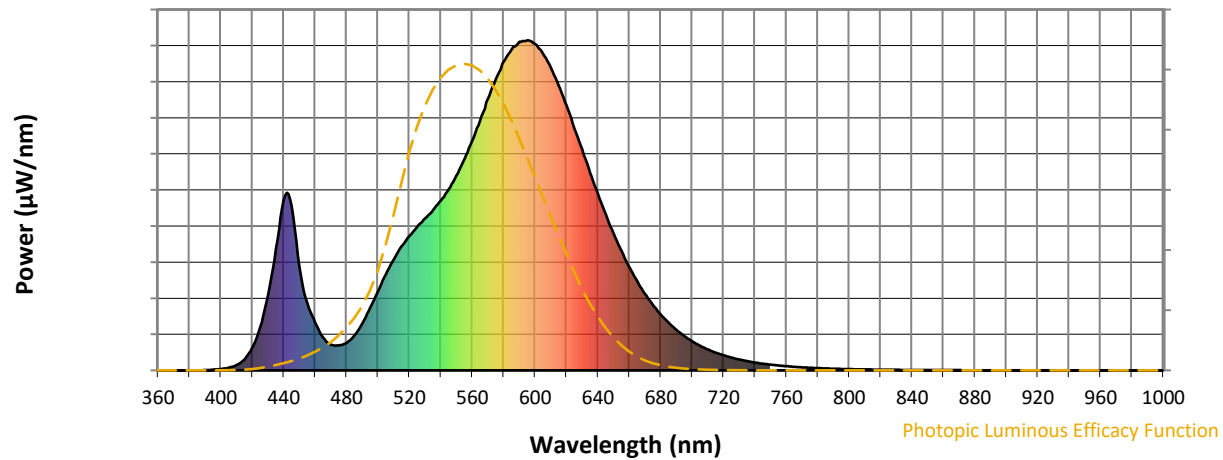
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

Photopic Flux vs. Wavelength

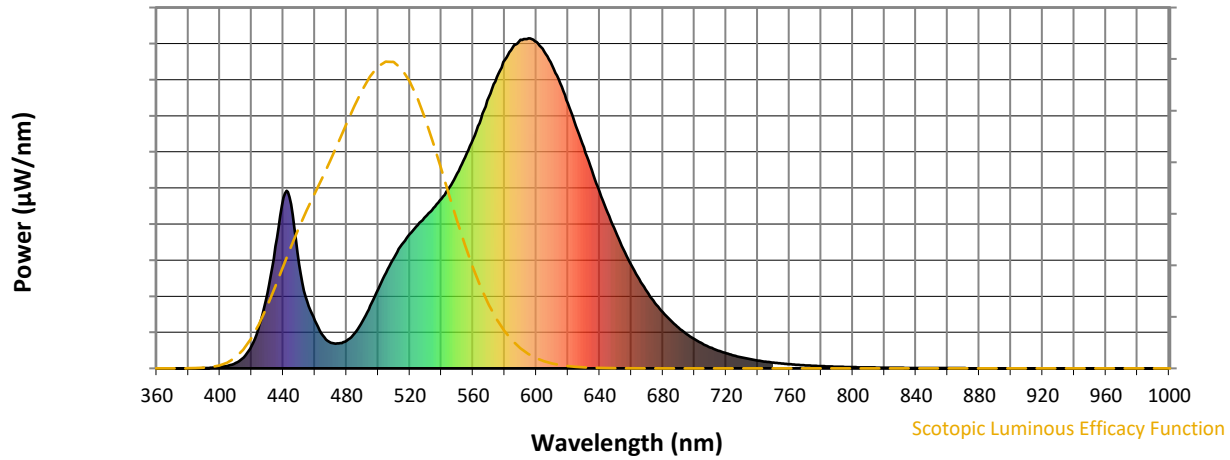


Photopic Lumens: NR

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



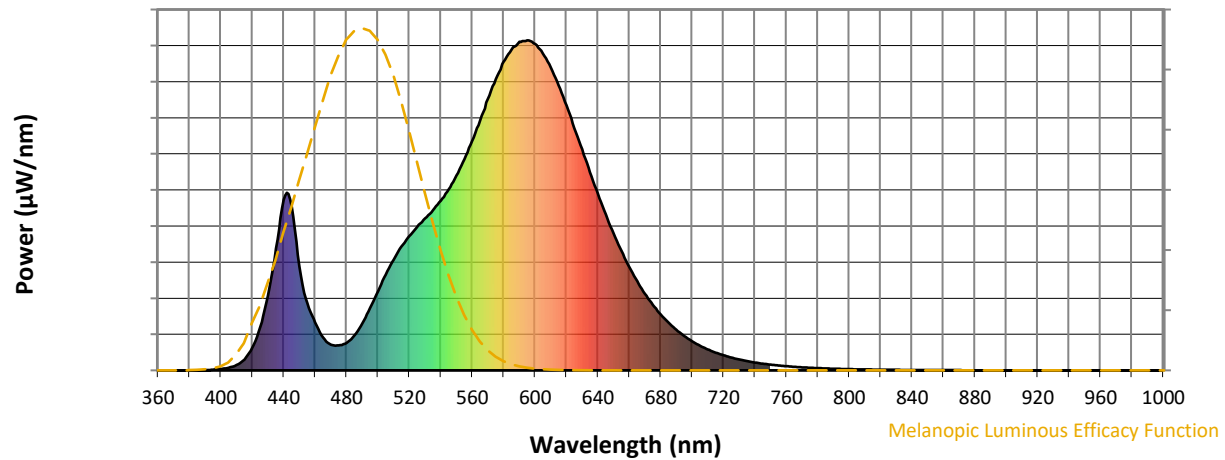
Scotopic Lumens: NR

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

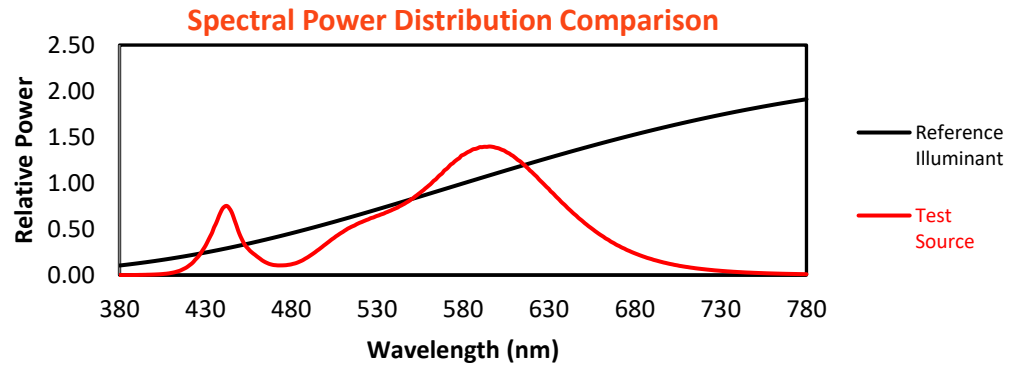
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	142	NR	620	803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

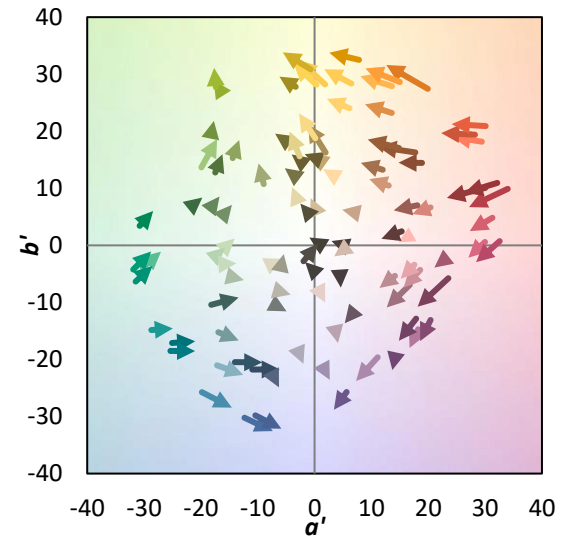
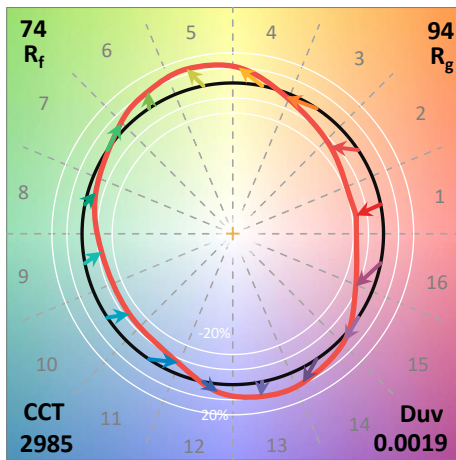
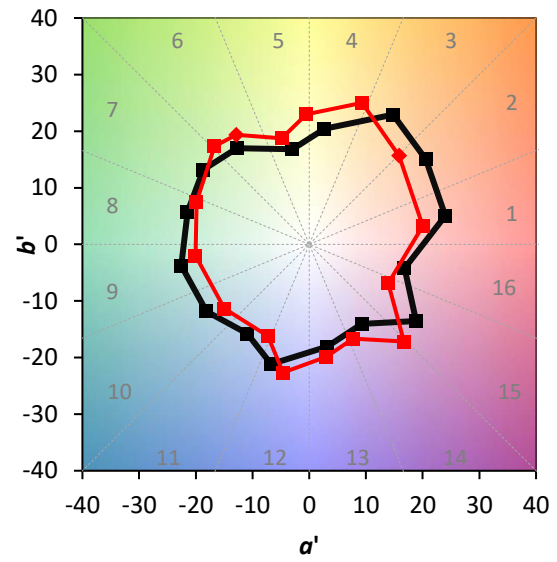
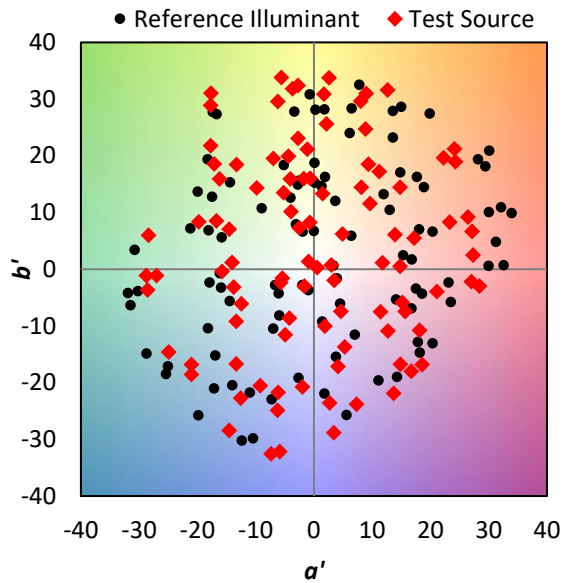
TM-30-18

Summary

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

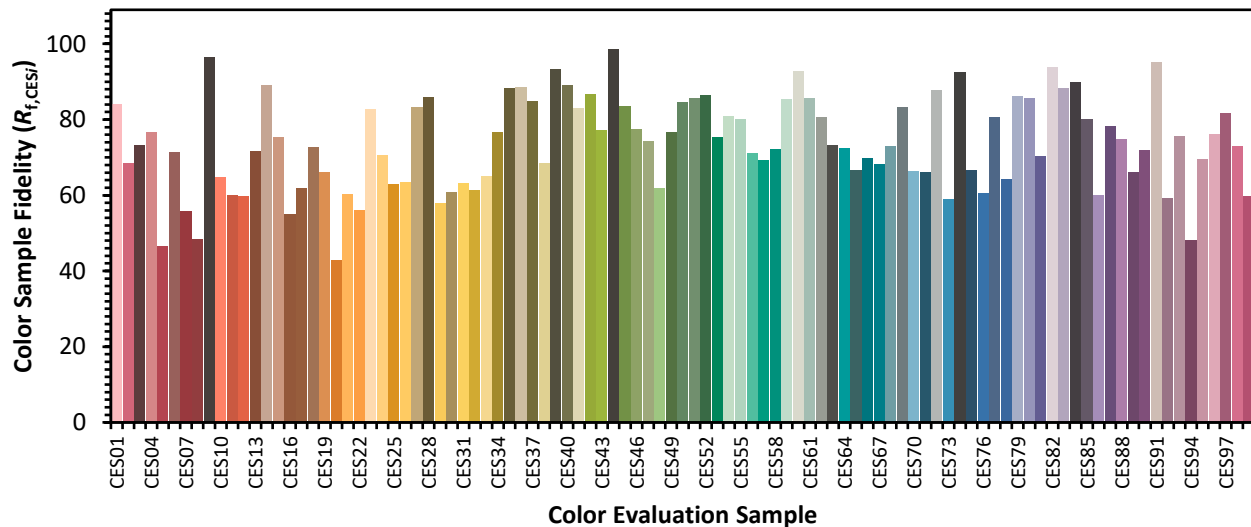


Color Vector Graphics

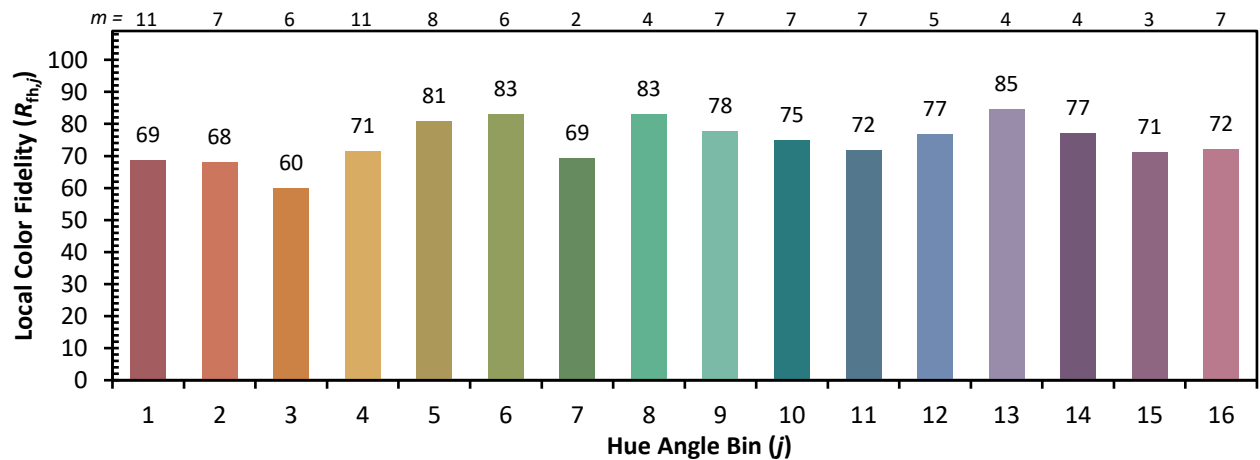
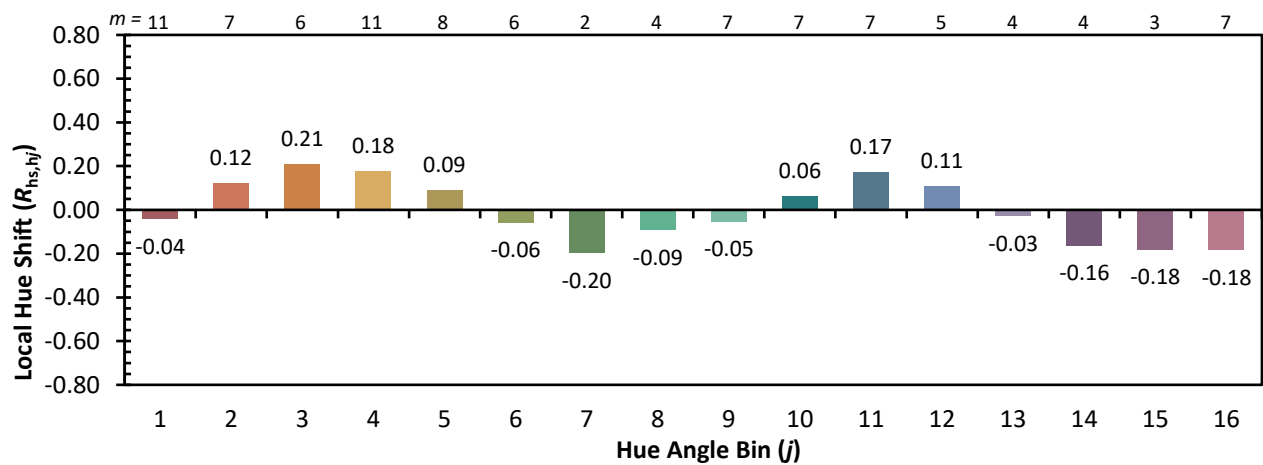
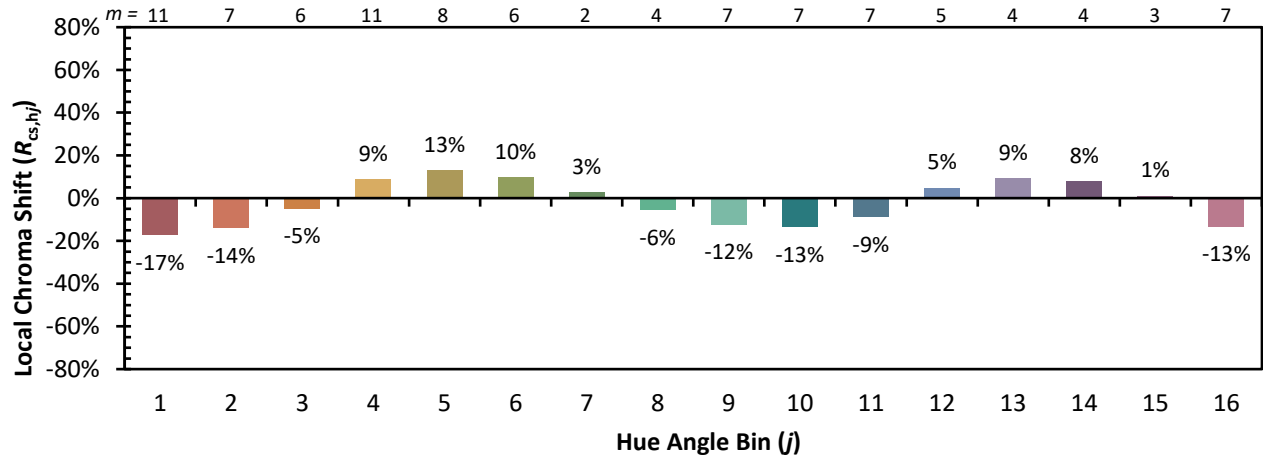


Individual Sample Fidelity Index ($R_{f,i}$)

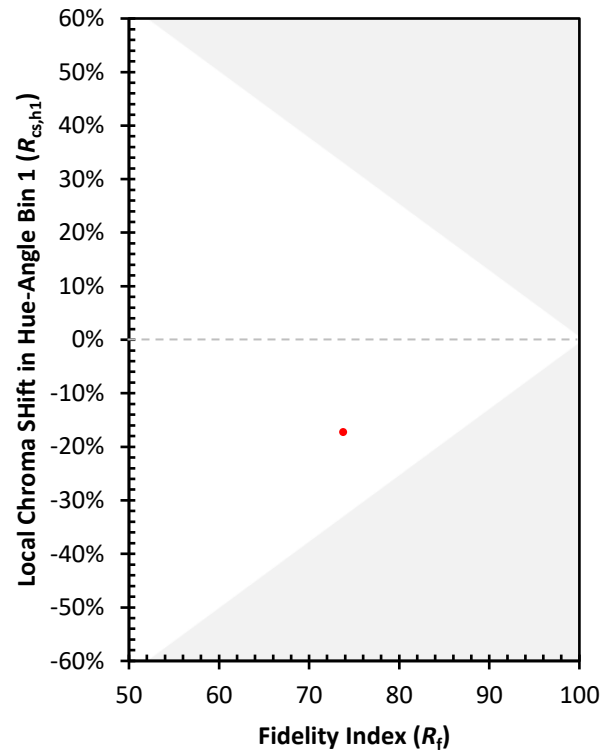
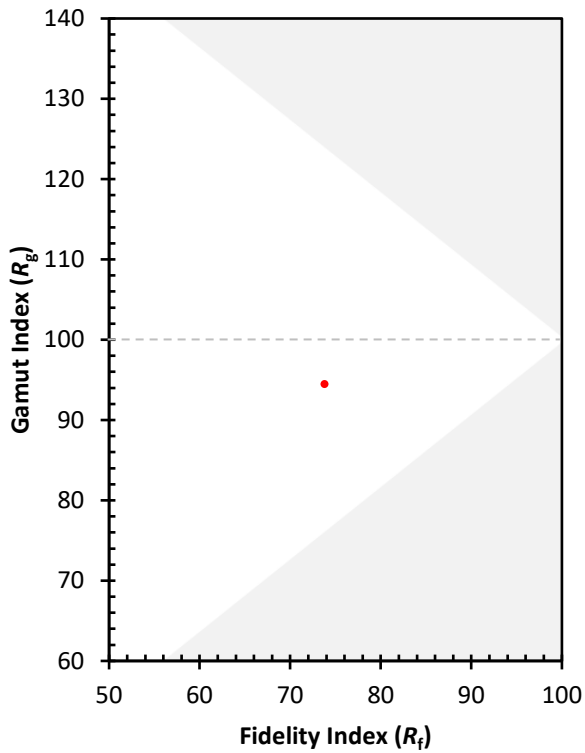
CES01 = 86	CES26 = 63	CES51 = 86	CES76 = 61
CES02 = 62	CES27 = 83	CES52 = 86	CES77 = 81
CES03 = 31	CES28 = 86	CES53 = 75	CES78 = 64
CES04 = 71	CES29 = 58	CES54 = 81	CES79 = 86
CES05 = 49	CES30 = 61	CES55 = 80	CES80 = 86
CES06 = 51	CES31 = 63	CES56 = 71	CES81 = 70
CES07 = 41	CES32 = 61	CES57 = 69	CES82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