

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: STREETWORKS

Report Number: P1065495

Luminaire Tested: **GLAN-SA1C-850-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065495
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 1xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (14) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4729.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 50.2
Input Voltage (V): 120
Input Current (A_{in}): 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

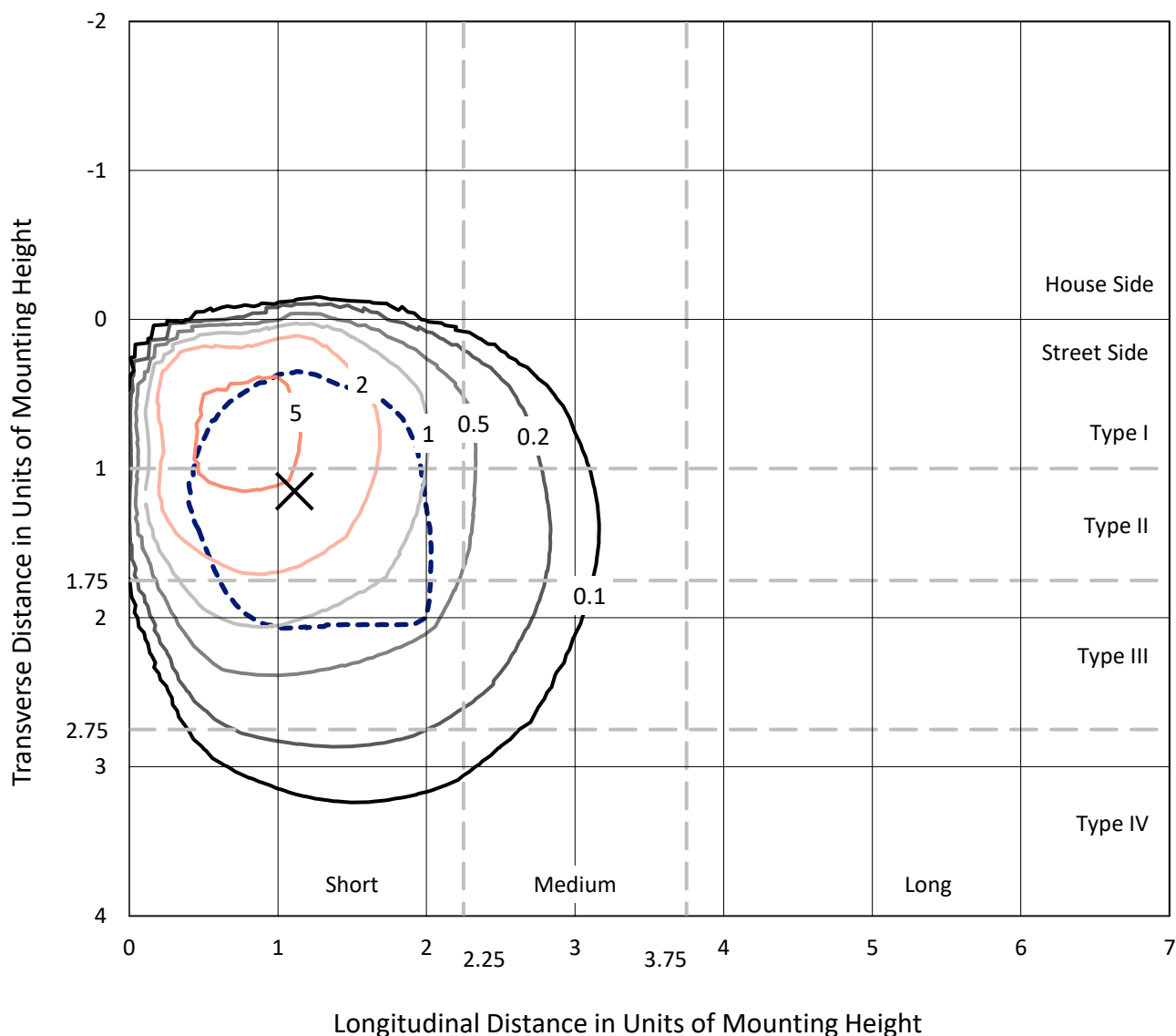
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

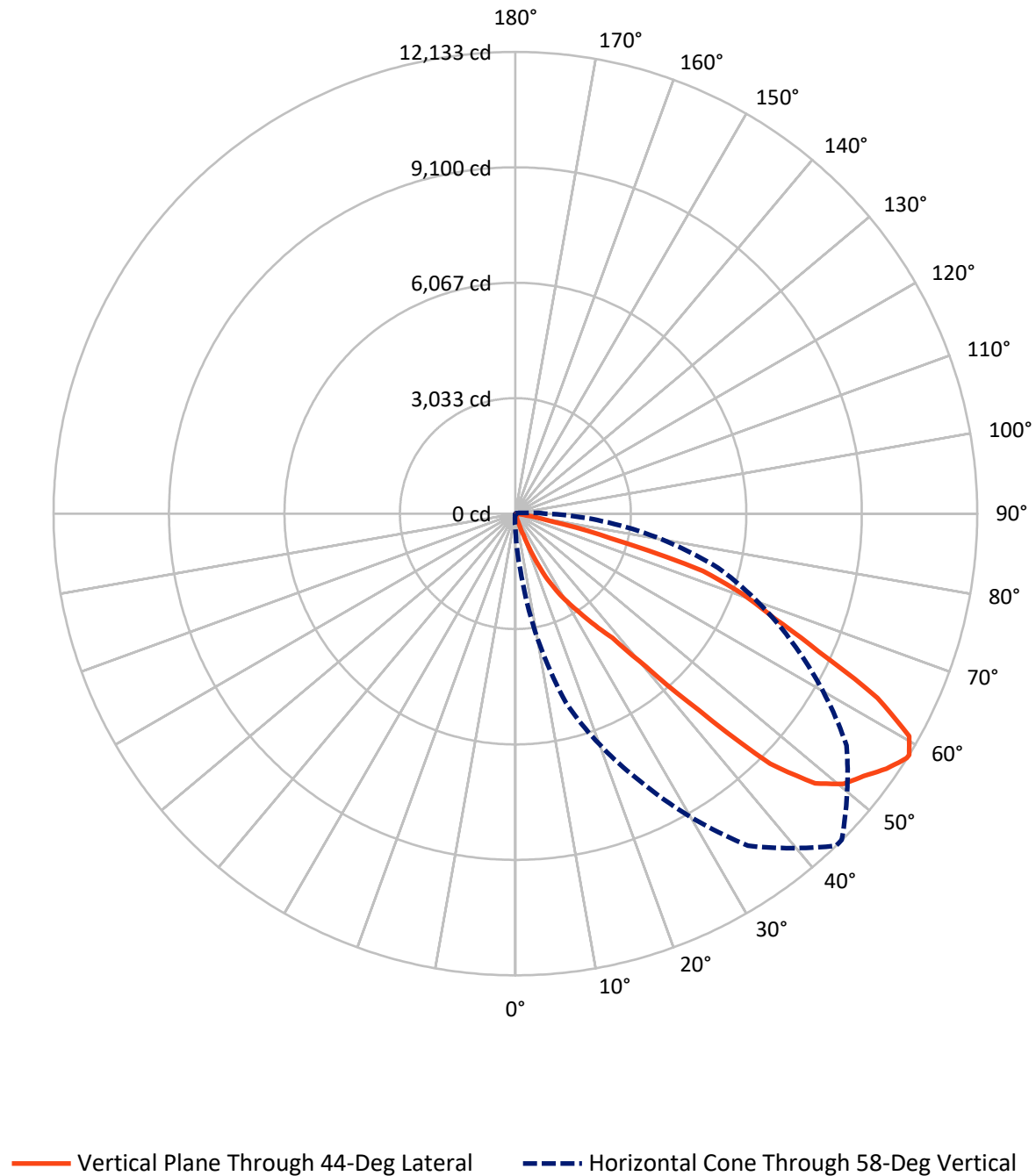


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc

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	32.3	0.0	32.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	4697.4	0.0	4697.4
	% Fixture	99.3	0.0	99.3
Total	Lumens	4729.7	0.0	4729.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.0
10°-20°	10.4	0.2
20°-30°	112.0	2.4
30°-40°	331.4	7.0
40°-50°	987.6	20.9
50°-60°	1567.1	33.1
60°-70°	1307.2	27.6
70°-80°	403.2	8.5
80°-90°	9.0	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°	4729.7	100.0
0°-180°	4729.7	100.0



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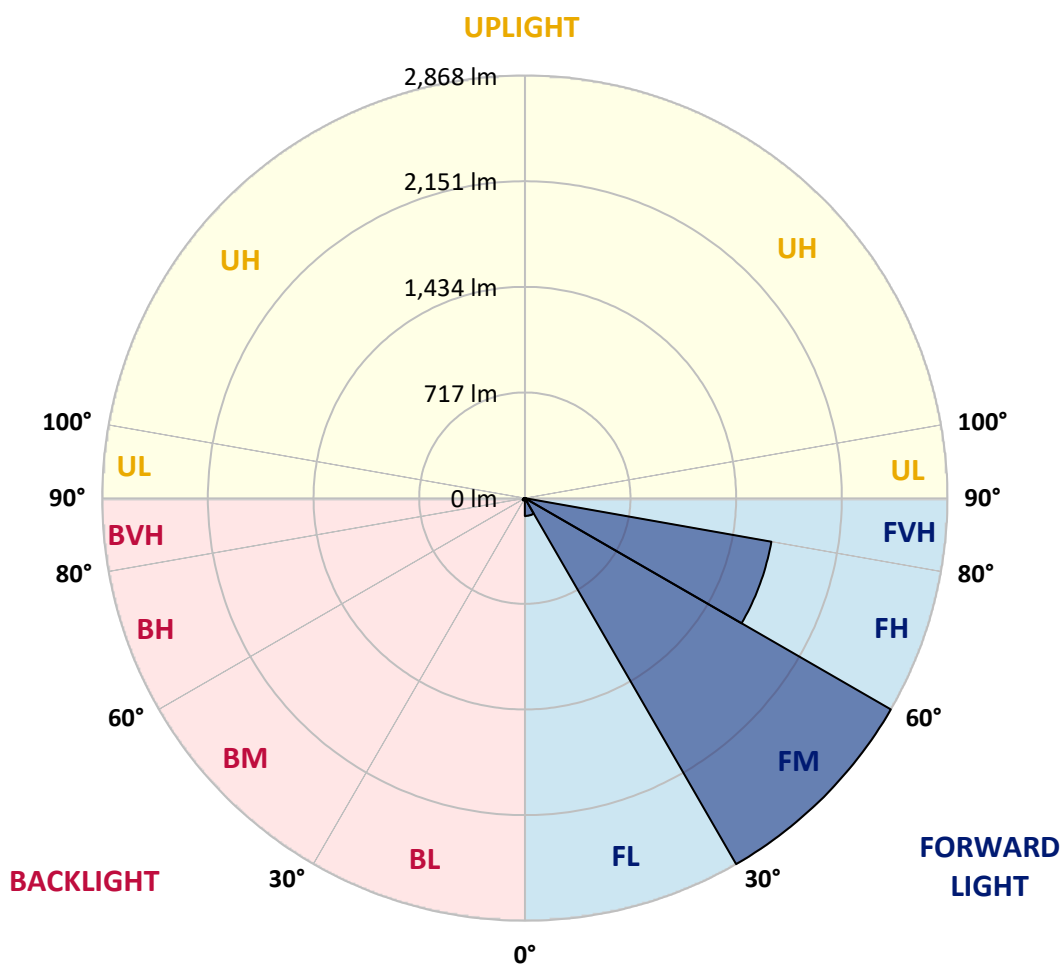
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.1	2.6			
FM	(30°-60°)	2868.4	60.6			
FH	(60°-80°)	1699.3	35.9			G1/1800
FVH	(80°-90°)	8.5	0.2			G0/10
BL	(0°-30°)	3.2	0.1	B0/110		
BM	(30°-60°)	17.7	0.4	B0/220		
BH	(60°-80°)	11.0	0.2	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
2.5°	26.8	26.8	25.7	24.3	22.9	21.4	21.1	20.4	20.0	19.7
5°	27.9	27.9	27.5	26.4	25.0	23.9	23.9	22.9	22.2	21.4
7.5°	28.6	28.9	29.7	29.3	28.6	27.5	27.5	26.8	25.7	23.9
10°	29.7	30.7	32.2	32.9	33.2	33.2	32.9	32.5	30.7	28.2
12.5°	30.7	32.9	36.4	40.0	42.2	45.0	44.7	43.9	39.3	33.9
15°	32.9	36.1	43.6	54.0	70.0	80.0	84.0	80.4	65.0	45.7
17.5°	35.4	40.7	63.2	112.9	185.1	219.4	240.1	223.3	147.9	86.8
20°	37.9	49.7	117.5	292.6	480.2	592.4	623.5	574.9	369.1	165.4
22.5°	42.2	69.7	238.3	604.9	1034.7	1203.0	1234.8	1079.4	697.1	326.6
25°	51.1	101.1	410.9	985.8	1544.2	1828.2	1815.0	1611.4	1130.8	521.6
27.5°	64.0	147.2	621.3	1400.6	2032.2	2282.7	2312.7	2060.8	1507.4	767.1
30°	82.5	204.0	847.1	1732.8	2423.5	2694.3	2699.3	2438.8	1844.3	982.5
32.5°	100.4	257.6	1044.7	2054.0	2809.0	3105.9	3128.0	2807.6	2095.8	1206.9
35°	114.0	292.6	1244.8	2336.3	3197.7	3606.8	3605.4	3224.9	2393.8	1407.4
37.5°	115.0	327.6	1425.9	2625.0	3690.1	4148.1	4193.5	3774.0	2754.0	1655.3
40°	112.5	366.9	1655.3	3075.2	4577.2	5280.0	5320.0	4791.2	3476.4	2079.8
42.5°	115.4	435.2	2027.6	3906.6	6050.3	7059.6	7136.8	6580.9	4804.4	2945.8
45°	130.4	563.4	2807.6	5297.5	8150.1	9380.6	9354.8	8554.1	6349.7	4264.2
47.5°	180.1	877.5	3963.7	6651.2	9492.0	10587.8	10610.0	9631.4	7251.5	5277.8
50°	276.9	1342.7	4935.2	7366.9	10069.0	11168.4	11147.7	10016.9	7594.1	5777.0
52.5°	360.1	1679.2	5422.5	7618.1	10143.0	11455.3	11453.9	10118.3	7647.4	5819.8
55°	380.9	1704.6	5426.5	7631.6	10308.8	11830.8	11878.0	10368.1	7716.3	5632.6
57.5°	372.6	1509.2	5199.9	7710.2	10603.9	12121.3	12123.8	10610.0	7891.4	5517.9
58°	365.5	1478.5	5154.2	7754.9	10654.6	12133.4	12127.4	10621.0	8033.9	5513.6
60°	325.5	1283.7	4975.9	7868.9	10579.2	11884.1	11827.2	10379.2	8012.9	5469.7
62.5°	255.8	1001.5	4800.5	7737.0	9771.1	10676.8	10700.4	9189.0	7304.7	5213.5
65°	203.7	746.4	4434.6	6786.7	8046.1	8767.8	8855.7	7472.3	6097.1	4414.6
67.5°	162.2	539.5	3720.1	5403.2	6366.8	7317.6	7381.5	6273.6	4723.7	3382.4
70°	131.8	364.8	2567.8	3951.6	5251.4	6320.4	6324.3	5211.7	3525.7	2216.2
72.5°	116.8	252.6	1490.6	2881.9	4258.1	5150.3	5046.3	4229.2	2709.7	1312.7
75°	101.1	167.6	731.0	1761.8	2581.8	2599.3	2638.9	1961.9	1354.5	624.2
77.5°	83.2	119.0	288.0	481.3	774.2	991.1	1027.9	778.9	450.5	153.6
80°	57.2	56.5	77.5	147.6	221.5	277.6	259.0	200.4	117.9	59.0
82.5°	24.7	26.8	35.0	42.2	34.3	33.2	31.8	20.4	15.7	12.1
85°	7.9	7.1	7.5	7.5	6.1	4.6	4.6	2.1	0.0	0.0
87.5°	3.9	3.2	3.2	2.9	1.8	0.7	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°
20.7	0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
19.3	2.5°	18.9	18.9	18.2	17.5	17.1	16.4	16.1	15.7	15.4	15.0
20.7	5°	20.0	19.7	18.6	17.5	16.4	15.4	14.6	13.9	13.2	12.9
22.9	7.5°	21.8	21.1	18.9	17.1	15.7	14.3	13.6	12.5	11.8	10.7
25.4	10°	23.9	22.5	19.7	17.5	15.4	13.6	12.5	11.4	10.4	8.9
28.9	12.5°	26.8	24.3	20.7	17.1	14.6	12.5	11.4	10.0	8.9	7.9
33.6	15°	29.3	26.1	21.1	17.1	13.9	11.4	10.0	8.6	7.5	6.1
42.2	17.5°	32.9	27.5	20.7	16.1	12.9	10.0	8.6	7.5	5.7	3.6
62.5	20°	38.9	28.6	20.0	15.0	11.1	8.2	6.4	5.0	2.5	0.7
94.0	22.5°	48.6	31.4	19.3	13.6	9.6	6.4	4.3	1.8	0.0	0.0
142.9	25°	67.2	36.4	19.3	12.9	8.6	4.6	1.4	0.0	0.0	0.0
202.9	27.5°	89.3	43.2	19.3	11.1	6.8	2.5	0.0	0.0	0.0	0.0
276.5	30°	111.8	50.7	19.3	9.6	5.4	0.4	0.0	0.0	0.0	0.0
340.5	32.5°	133.3	57.2	19.7	8.2	3.6	0.0	0.0	0.0	0.0	0.0
429.1	35°	155.1	58.2	19.3	7.1	2.1	0.0	0.0	0.0	0.0	0.0
537.7	37.5°	182.9	56.1	18.2	6.4	1.1	0.0	0.0	0.0	0.0	0.0
707.4	40°	225.1	57.2	17.1	6.1	0.4	0.0	0.0	0.0	0.0	0.0
1010.0	42.5°	303.0	61.8	15.7	6.1	0.0	0.0	0.0	0.0	0.0	0.0
1608.9	45°	523.8	82.9	14.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
2415.3	47.5°	866.4	149.0	13.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
2909.4	50°	1105.8	187.6	14.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
2971.2	52.5°	1104.0	209.0	15.4	7.1	1.4	0.0	0.0	0.0	0.0	0.0
2738.6	55°	981.5	212.9	16.4	7.9	4.6	0.0	0.0	0.0	0.0	0.0
2353.4	57.5°	820.3	194.4	18.9	9.6	8.6	0.0	0.0	0.0	0.0	0.0
2293.1	58°	791.7	185.8	19.7	10.0	9.3	0.0	0.0	0.0	0.0	0.0
1989.0	60°	648.8	151.5	25.0	12.5	12.5	0.0	0.0	0.0	0.0	0.0
1630.7	62.5°	448.0	132.2	28.6	16.1	12.9	0.0	0.0	0.0	0.0	0.0
1202.3	65°	316.9	119.3	31.1	17.1	10.4	0.0	0.0	0.0	0.0	0.0
854.3	67.5°	236.9	110.0	34.3	17.5	5.4	0.0	0.0	0.0	0.0	0.0
535.9	70°	181.5	103.3	42.2	18.6	1.4	0.0	0.0	0.0	0.0	0.0
319.4	72.5°	147.9	95.4	51.1	19.3	0.0	0.0	0.0	0.0	0.0	0.0
191.5	75°	122.5	86.1	49.3	21.1	0.0	0.0	0.0	0.0	0.0	0.0
102.2	77.5°	81.5	66.8	45.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0
36.4	80°	28.6	26.4	35.0	18.6	0.0	0.0	0.0	0.0	0.0	0.0
7.5	82.5°	4.3	3.6	5.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
20.7	0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
14.6	2.5°	14.6	14.6	14.3	14.6	14.6	15.4	17.1	19.7	22.5	23.6
12.5	5°	12.1	11.8	11.4	11.4	11.4	12.5	13.9	16.8	20.0	21.4
10.4	7.5°	10.0	9.6	9.3	8.9	8.9	9.6	11.4	14.6	17.9	19.3
8.6	10°	8.2	7.5	7.1	6.8	6.8	7.5	9.3	12.5	16.1	17.5
7.1	12.5°	6.8	5.7	5.0	4.6	4.3	5.4	7.1	10.0	13.9	15.7
5.4	15°	4.6	3.6	2.5	2.1	1.8	2.9	4.6	7.9	11.8	13.9
2.9	17.5°	2.5	1.1	0.4	0.0	0.0	0.7	2.1	5.7	9.6	11.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	7.1	8.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	4.3	6.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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	1.4	2.9
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°
20.7	0°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
24.7	2.5°	25.4	25.0	24.3	23.6	23.6	23.6	24.7	25.7	26.8	26.8
22.2	5°	23.6	23.6	23.2	22.5	22.5	22.9	24.3	26.1	27.5	27.9
20.4	7.5°	21.8	22.5	21.8	21.4	21.8	22.2	23.6	25.7	27.9	28.6
18.9	10°	20.7	21.1	21.1	20.7	20.7	21.4	22.9	25.7	28.6	29.7
17.1	12.5°	19.3	20.0	19.7	19.7	19.7	20.4	22.2	25.4	29.3	30.7
15.4	15°	17.9	18.9	18.9	18.6	18.6	18.9	21.4	25.0	30.4	32.9
13.2	17.5°	16.4	17.5	17.9	17.1	17.1	17.9	20.4	25.0	31.1	35.4
10.7	20°	13.6	15.4	16.4	15.4	15.4	16.1	18.6	23.6	31.4	37.9
7.9	22.5°	10.7	12.5	13.9	13.6	13.6	13.9	17.1	22.5	31.8	42.2
4.6	25°	7.9	9.6	10.7	11.4	11.4	12.5	15.7	21.8	33.2	51.1
2.1	27.5°	4.6	6.8	8.2	8.9	9.3	10.7	14.6	21.1	35.7	64.0
0.0	30°	2.1	3.9	5.7	7.1	7.1	9.6	13.6	20.4	38.9	82.5
0.0	32.5°	0.0	1.8	2.9	5.0	5.4	7.9	12.5	19.7	43.6	100.4
0.0	35°	0.0	0.0	1.4	3.9	3.9	6.4	11.4	18.9	50.7	114.0
0.0	37.5°	0.0	0.0	0.0	2.9	3.2	5.7	11.1	18.6	52.2	115.0
0.0	40°	0.0	0.0	0.0	2.1	2.5	5.4	11.1	18.9	47.2	112.5
0.0	42.5°	0.0	0.0	0.0	1.4	1.8	5.4	11.1	19.7	42.5	115.4
0.0	45°	0.0	0.0	0.0	1.1	1.4	5.7	10.7	19.3	40.0	130.4
0.0	47.5°	0.0	0.0	0.0	1.4	2.1	5.7	10.4	18.9	40.4	180.1
0.0	50°	0.0	0.0	0.0	1.8	2.5	5.7	10.7	18.2	44.3	276.9
0.0	52.5°	0.0	0.0	0.0	1.4	2.1	6.4	11.8	17.9	48.2	360.1
0.0	55°	0.0	0.0	0.0	0.4	1.1	8.2	12.9	17.9	54.3	380.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	9.3	14.6	18.9	64.3	372.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	9.3	15.0	18.9	65.0	365.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	9.3	16.4	21.1	70.0	325.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	7.9	19.7	26.4	72.9	255.8
0.0	65°	0.0	0.0	0.0	0.0	0.0	6.4	23.2	28.9	75.0	203.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	6.1	23.9	29.3	76.1	162.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	6.4	23.6	31.4	79.7	131.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	7.1	21.4	34.7	79.7	116.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	7.5	20.0	38.9	72.5	101.1
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	7.1	19.7	45.4	64.7	83.2
0.0	80°	0.7	1.1	1.1	0.7	0.7	6.1	19.3	46.1	55.0	57.2
0.4	82.5°	2.1	2.9	2.5	1.8	1.8	5.4	17.1	38.6	28.6	24.7
2.1	85°	3.9	4.6	4.6	3.9	3.9	5.0	10.7	13.9	9.6	7.9
3.9	87.5°	5.4	6.1	6.1	5.4	5.4	5.0	4.6	4.3	3.9	3.9
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: SP1-2407-184-12

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-850-U-5WQ

Data in this report applies to families of products including GSS-SB1A-850-U-5WQ

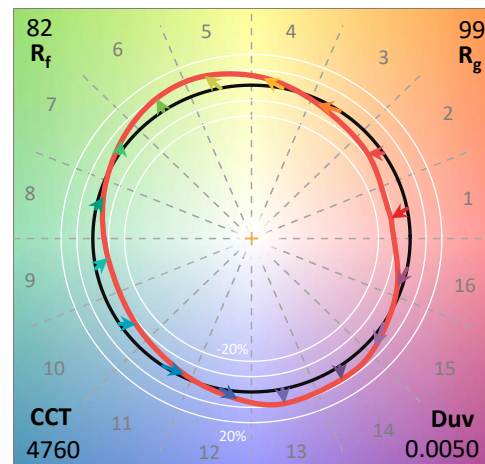
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-12
 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-850-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4760
 CIE u' : 0.2107
 CIE v' : 0.4939
 Duv: 0.0050
 CIE x: 0.3537
 CIE y: 0.3685
 CIE z: 0.2779
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 571
 Purity: 16.69598
 R_f: 82
 R_g: 99.4

CRI (Ra): 81.1
 R1: 79.8
 R2: 83.5
 R3: 87.9
 R4: 83.1
 R5: 80.5
 R6: 79.1
 R7: 86.1
 R8: 69.0
 R9: 8.7
 R10: 62.4
 R11: 83.8
 R12: 63.0
 R13: 79.9
 R14: 93.3
 R15: 72.7



Test Conditions

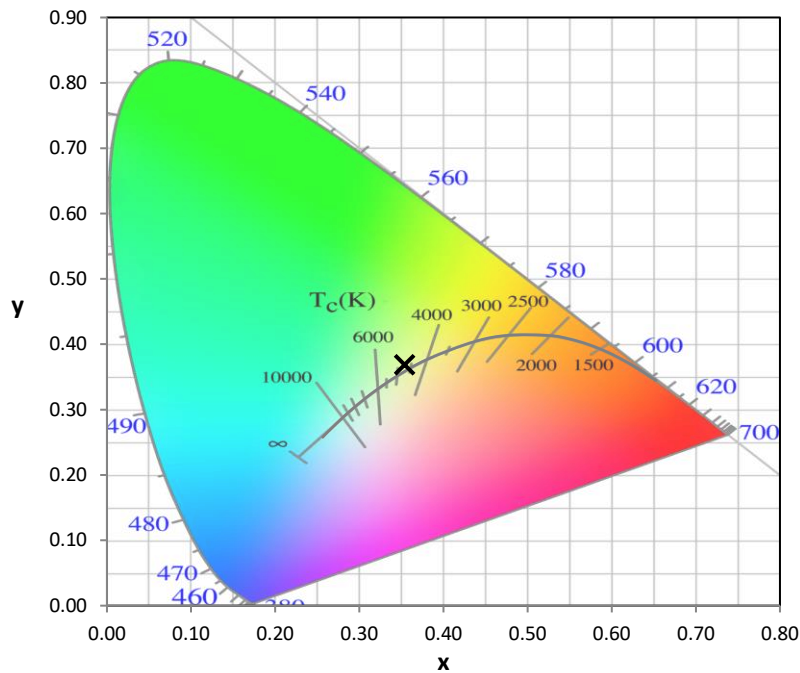
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

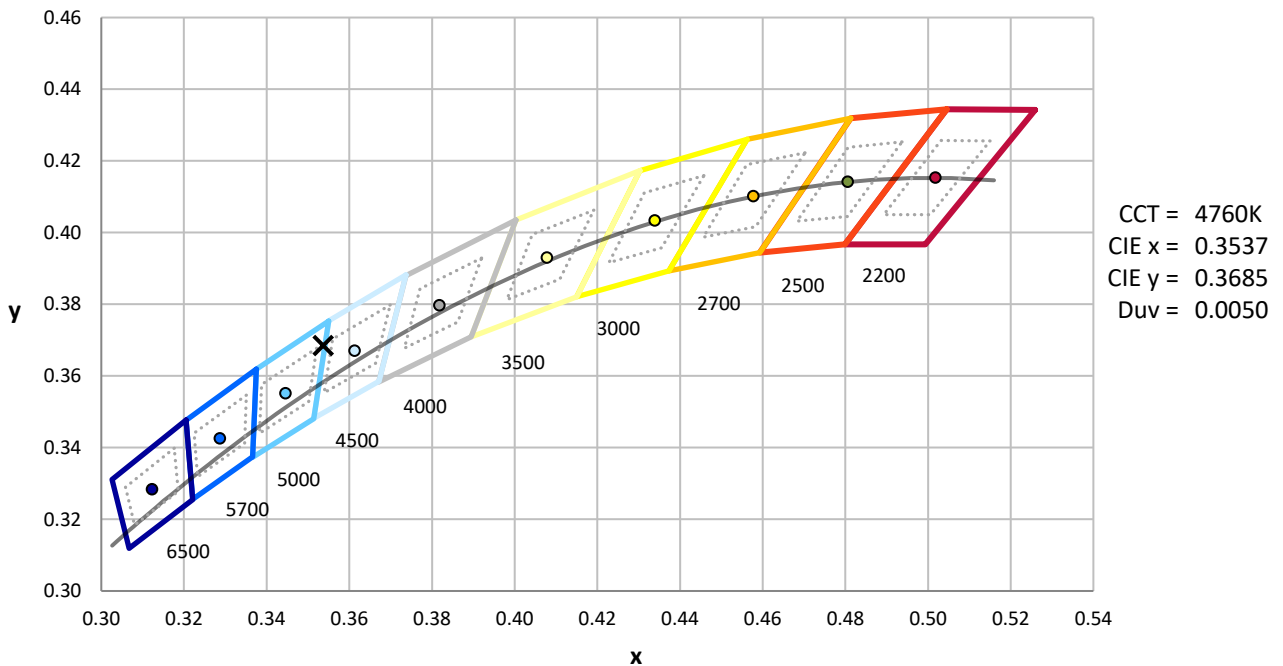
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-12

CIE 1931 Chromaticity Diagram



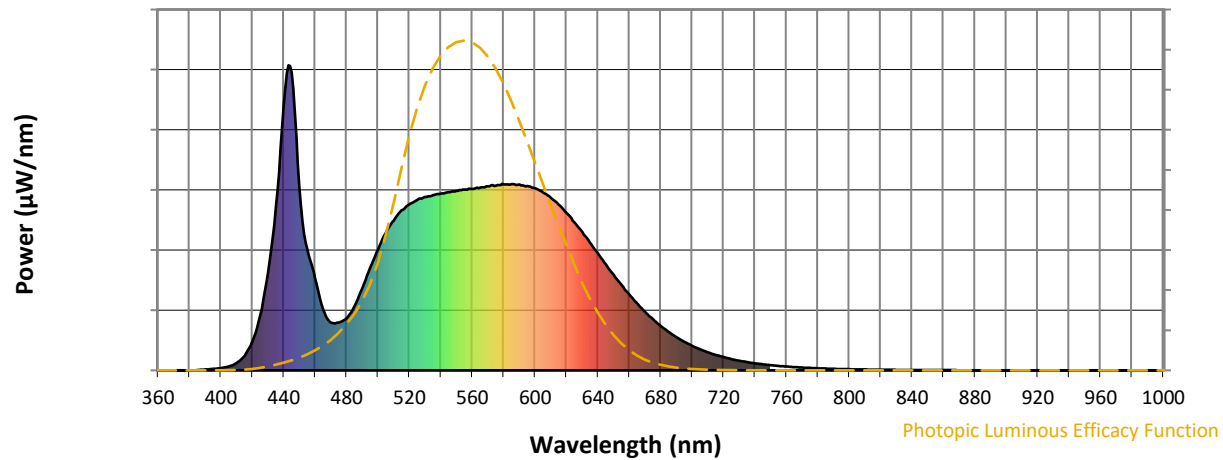
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

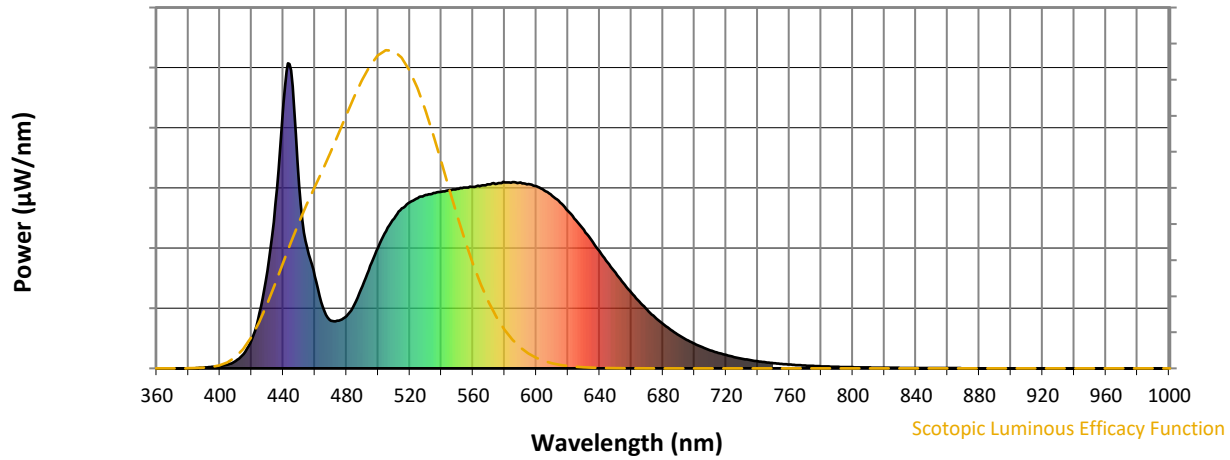


Photopic Lumens: NR

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

Scotopic Flux vs. Wavelength



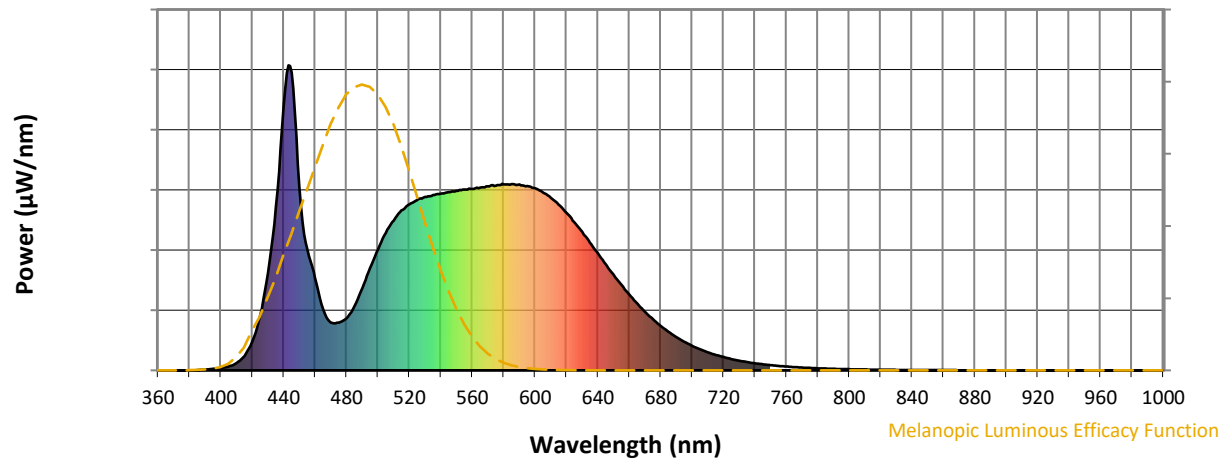
Scotopic Lumens: NR

S/P: 1.83

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	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.74

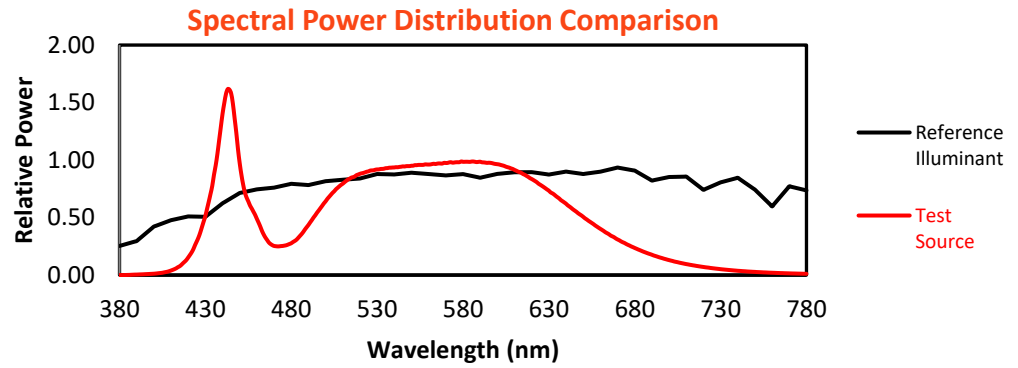
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	NR	750	17	NR	880	0	NR
365	0	NR	495	335	NR	625	486	NR	755	15	NR	885	0	NR
370	0	NR	500	397	NR	630	454	NR	760	12	NR	890	0	NR
375	0	NR	505	451	NR	635	419	NR	765	11	NR	895	0	NR
380	0	NR	510	492	NR	640	384	NR	770	9	NR	900	0	NR
385	1	NR	515	524	NR	645	347	NR	775	8	NR	905	0	NR
390	3	NR	520	545	NR	650	313	NR	780	7	NR	910	0	NR
395	5	NR	525	558	NR	655	280	NR	785	6	NR	915	0	NR
400	7	NR	530	568	NR	660	248	NR	790	5	NR	920	0	NR
405	13	NR	535	575	NR	665	219	NR	795	4	NR	925	0	NR
410	24	NR	540	579	NR	670	192	NR	800	4	NR	930	0	NR
415	47	NR	545	585	NR	675	167	NR	805	3	NR	935	0	NR
420	95	NR	550	588	NR	680	146	NR	810	3	NR	940	0	NR
425	181	NR	555	593	NR	685	126	NR	815	2	NR	945	0	NR
430	319	NR	560	595	NR	690	109	NR	820	2	NR	950	0	NR
435	539	NR	565	600	NR	695	94	NR	825	2	NR	955	0	NR
440	868	NR	570	603	NR	700	80	NR	830	2	NR	960	0	NR
445	977	NR	575	606	NR	705	69	NR	835	1	NR	965	0	NR
450	601	NR	580	609	NR	710	59	NR	840	1	NR	970	0	NR
455	397	NR	585	611	NR	715	51	NR	845	1	NR	975	0	NR
460	302	NR	590	610	NR	720	44	NR	850	1	NR	980	0	NR
465	201	NR	595	604	NR	725	37	NR	855	1	NR	985	0	NR
470	157	NR	600	596	NR	730	32	NR	860	1	NR	990	0	NR
475	157	NR	605	583	NR	735	27	NR	865	1	NR	995	0	NR
480	171	NR	610	566	NR	740	23	NR	870	1	NR	1000	0	NR
485	210	NR	615	543	NR	745	20	NR	875	0	NR			

REPORT NUMBER: SP1-2407-184-12

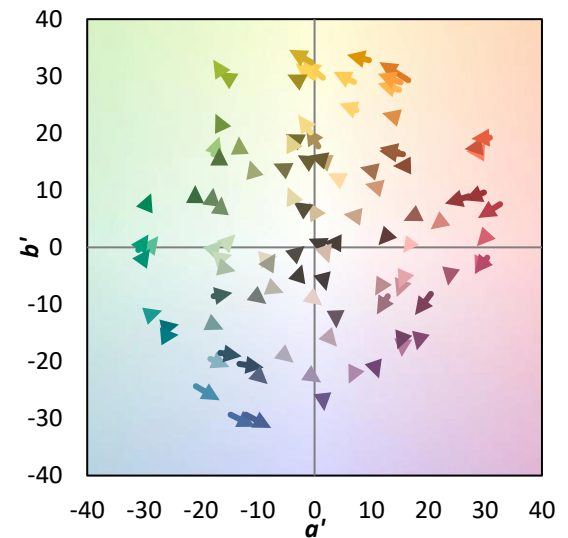
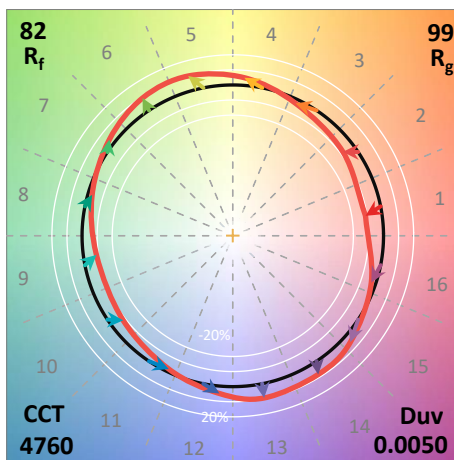
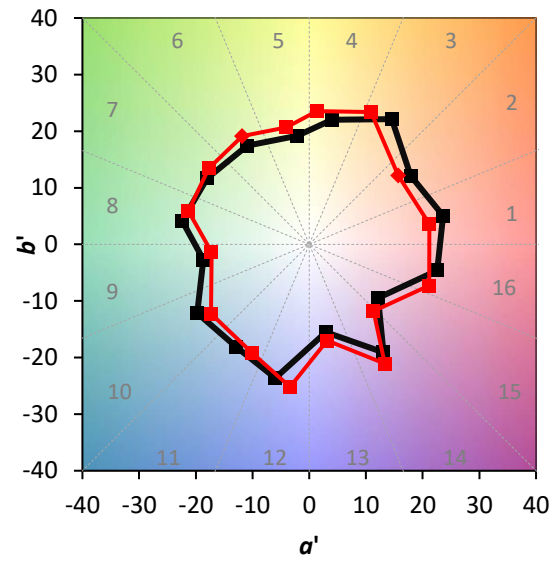
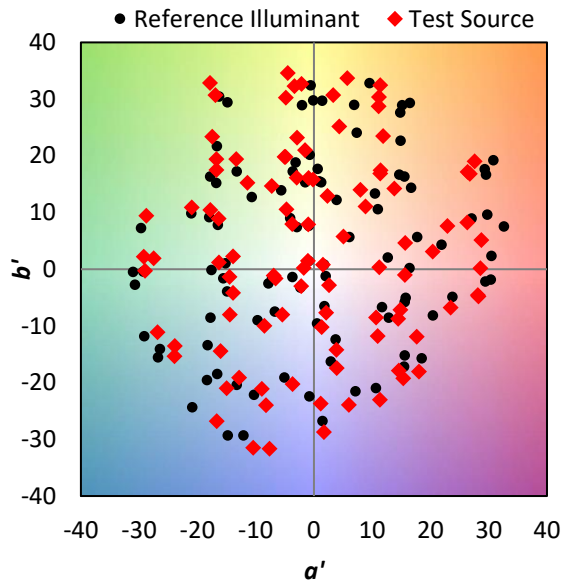
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $CIE R_a = 81.1$
 $R_9 = 8.7$

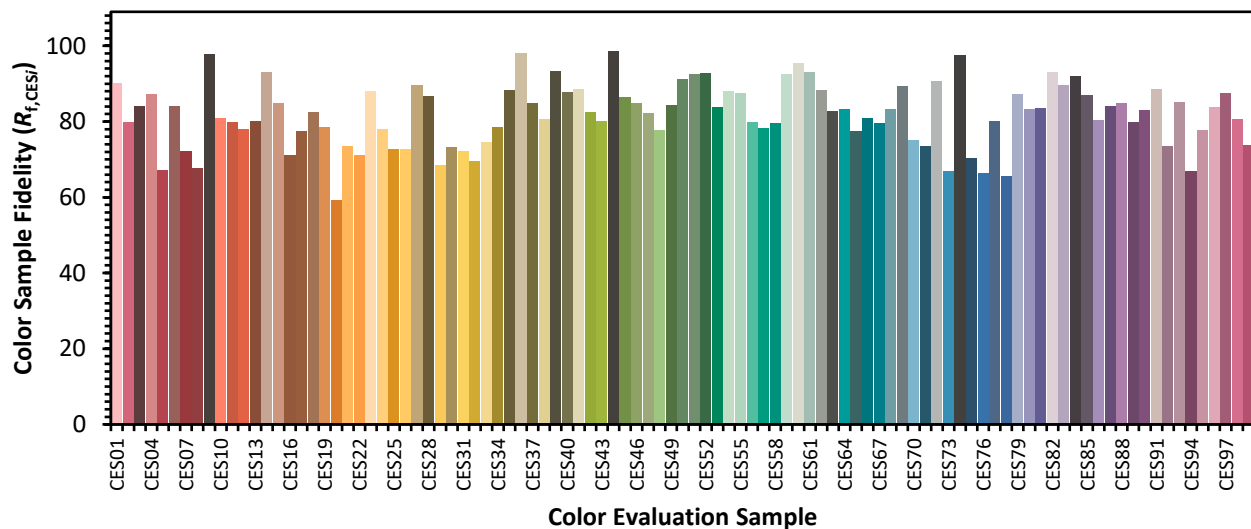


Color Vector Graphics

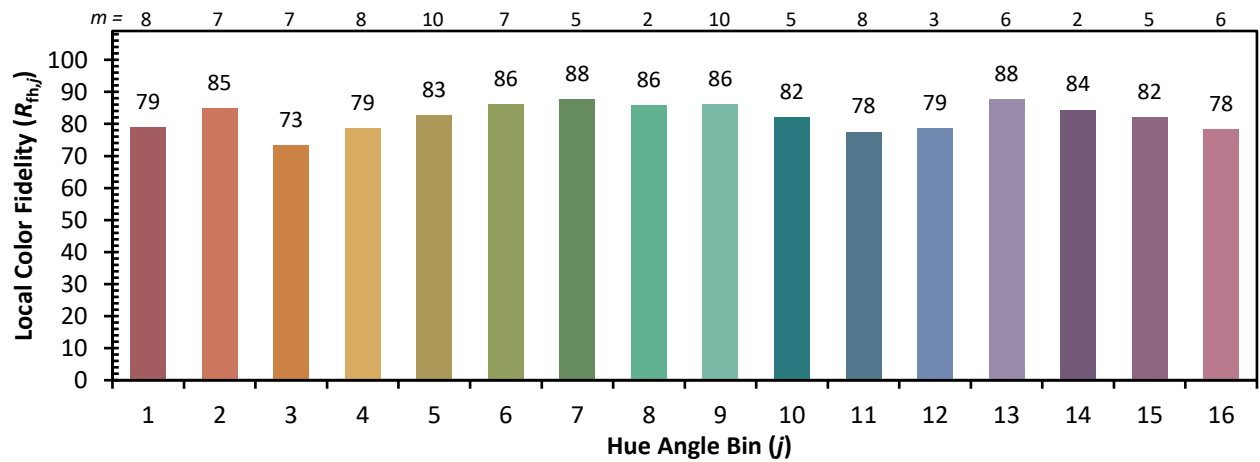
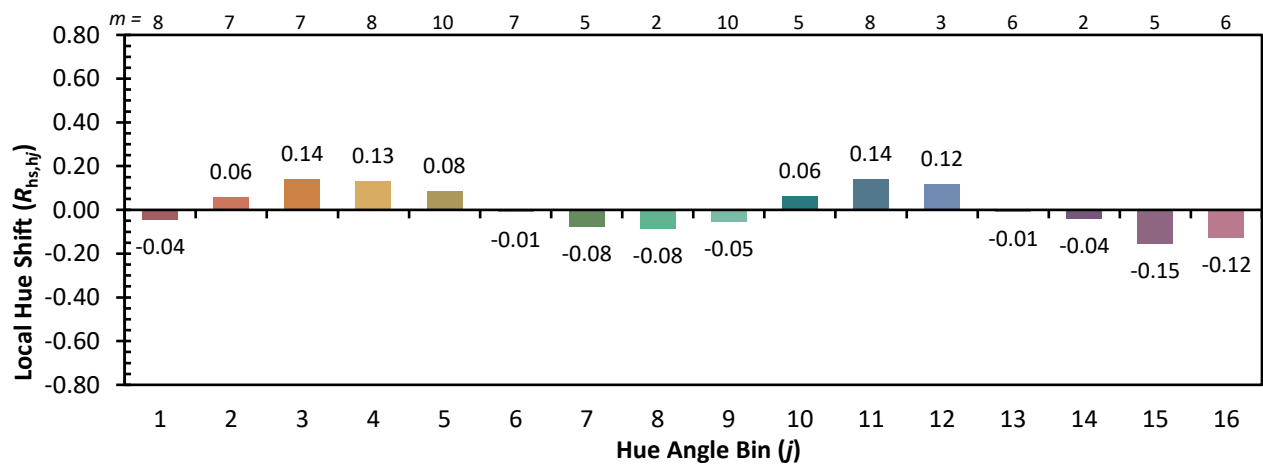
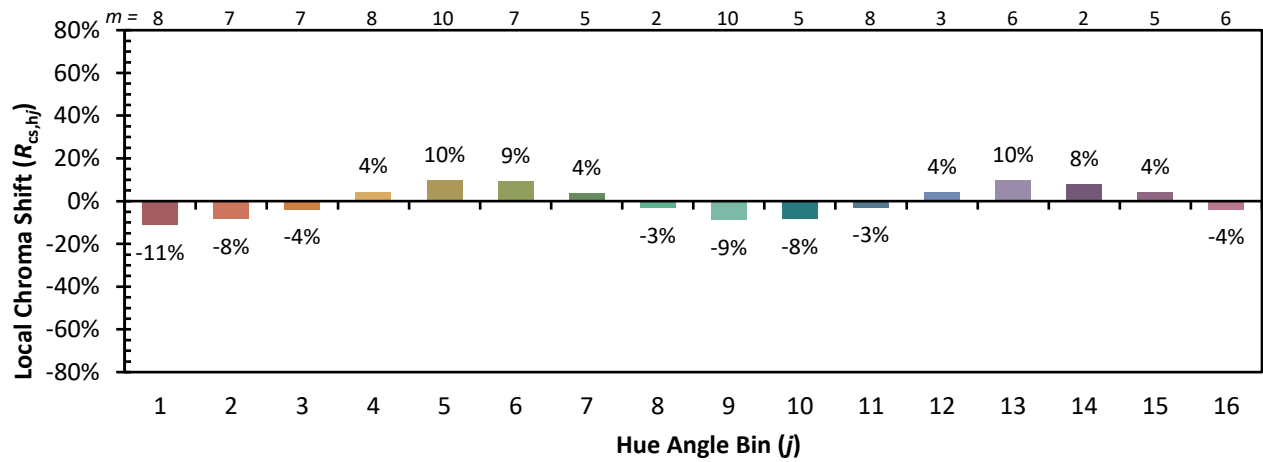


Individual Sample Fidelity Index ($R_{f,i}$)

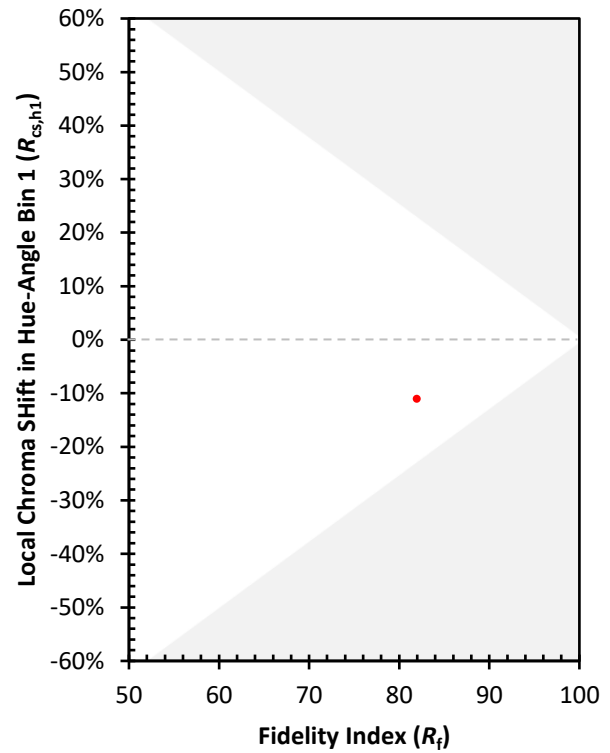
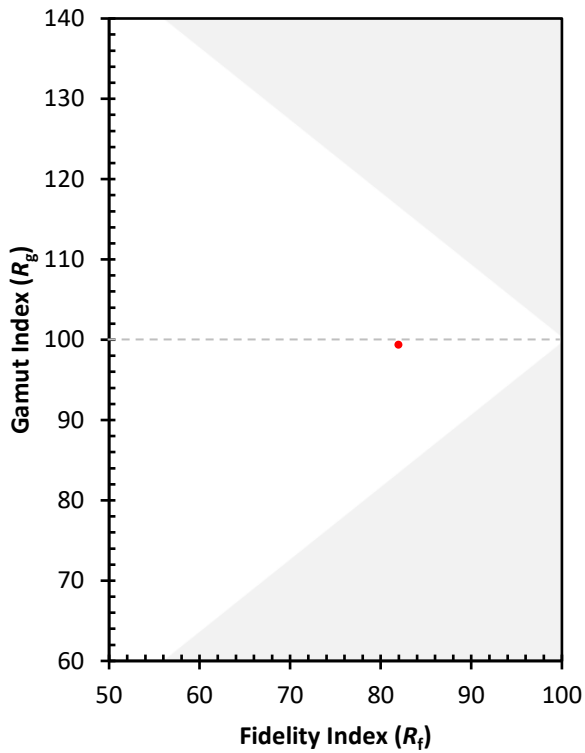
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 93
CES08 = 39	CES33 = 75	CES58 = 80	CES83 = 90
CES09 = 29	CES34 = 78	CES59 = 93	CES84 = 92
CES10 = 73	CES35 = 88	CES60 = 95	CES85 = 87
CES11 = 56	CES36 = 98	CES61 = 93	CES86 = 80
CES12 = 62	CES37 = 85	CES62 = 88	CES87 = 84
CES13 = 42	CES38 = 81	CES63 = 83	CES88 = 85
CES14 = 74	CES39 = 93	CES64 = 83	CES89 = 80
CES15 = 71	CES40 = 88	CES65 = 77	CES90 = 83
CES16 = 46	CES41 = 89	CES66 = 81	CES91 = 89
CES17 = 48	CES42 = 82	CES67 = 80	CES92 = 73
CES18 = 55	CES43 = 80	CES68 = 83	CES93 = 85
CES19 = 70	CES44 = 99	CES69 = 89	CES94 = 67
CES20 = 64	CES45 = 87	CES70 = 75	CES95 = 78
CES21 = 85	CES46 = 85	CES71 = 73	CES96 = 84
CES22 = 77	CES47 = 82	CES72 = 91	CES97 = 87
CES23 = 91	CES48 = 78	CES73 = 67	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 74
CES25 = 71	CES50 = 91	CES75 = 70	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)