

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: P1049469

Luminaire Tested: **GALN-SA3A-740-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049469
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
70CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10008.3 lumens
Efficiency: N/A
Efficacy: 123.0 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): 81.4
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

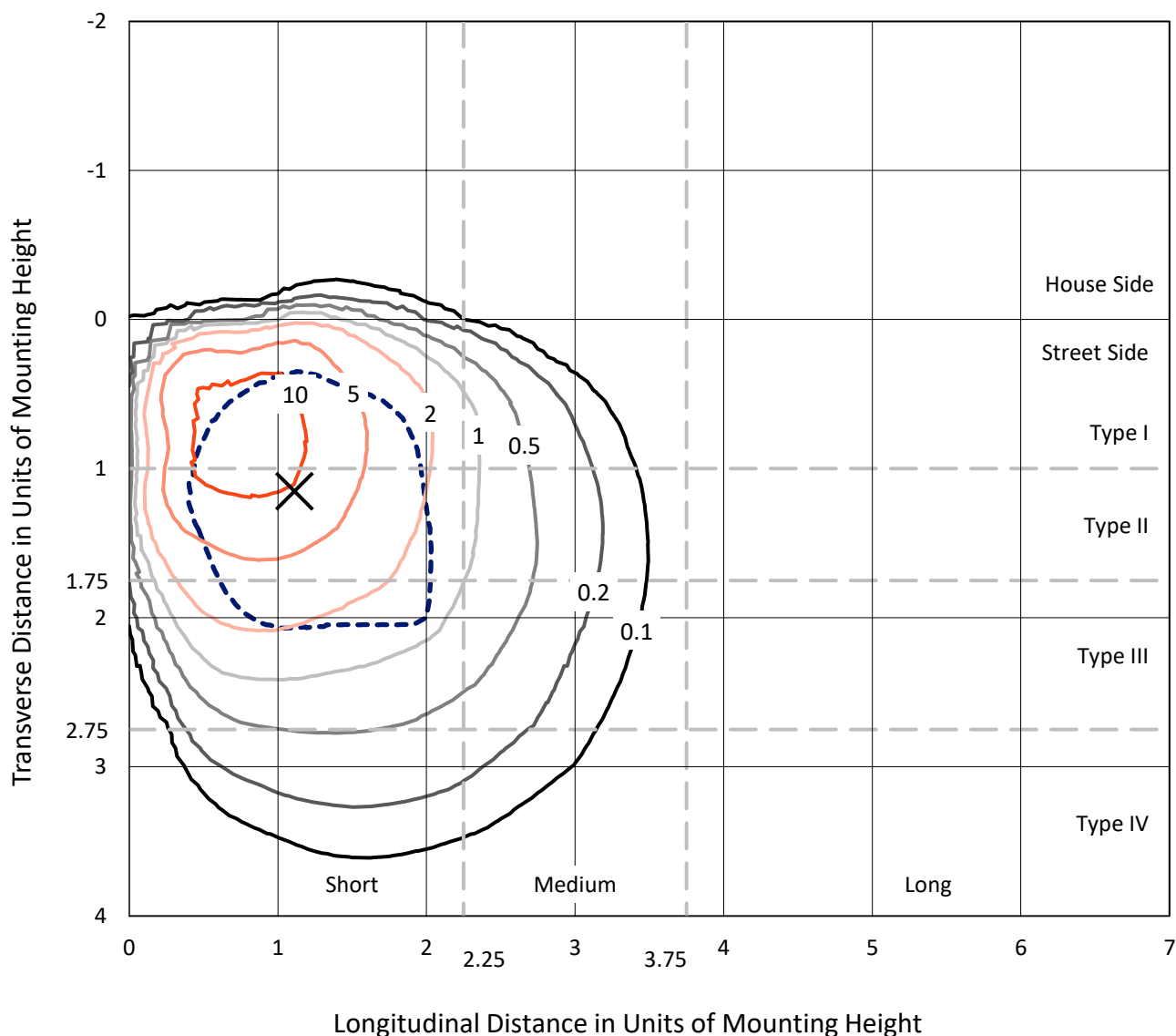
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

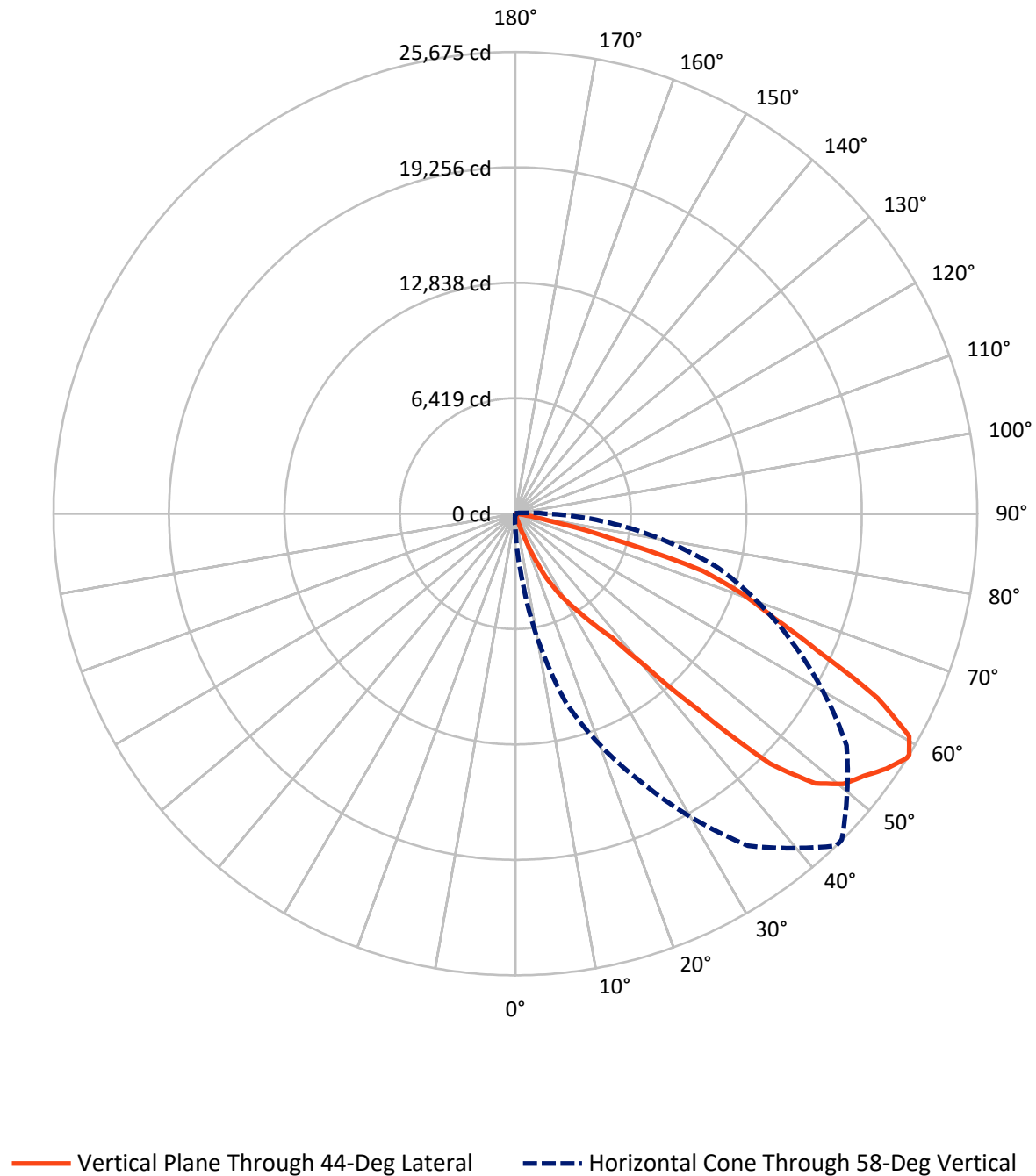


Based on 20 foot mounting height. Maximum calculated value = 17.4 fc

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	68.3	0.0	68.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9940.0	0.0	9940.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	10008.3	0.0	10008.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.0
10°-20°	21.9	0.2
20°-30°	237.1	2.4
30°-40°	701.2	7.0
40°-50°	2089.9	20.9
50°-60°	3316.2	33.1
60°-70°	2766.1	27.6
70°-80°	853.1	8.5
80°-90°	18.9	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°	10008.3	100.0
0°-180°	10008.3	100.0



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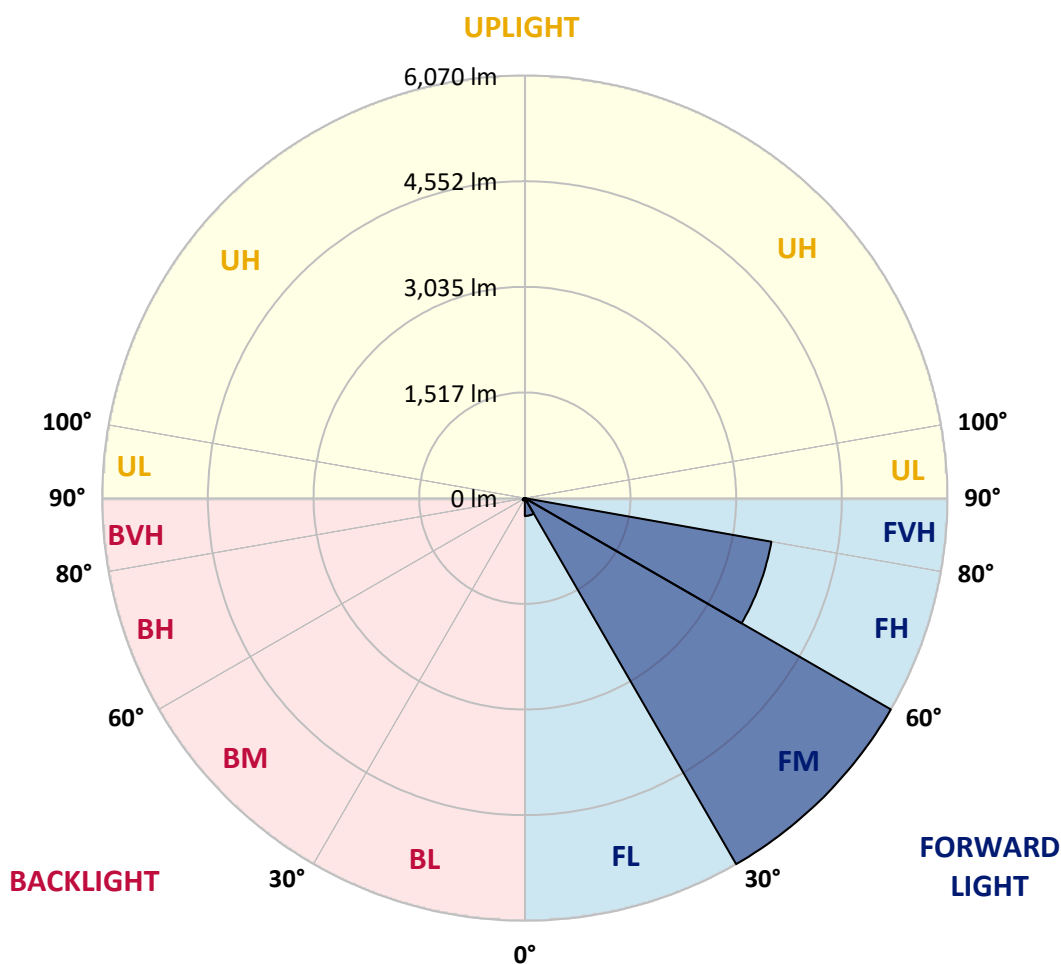
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.3	2.6			
FM	(30°-60°)	6069.8	60.6			
FH	(60°-80°)	3595.8	35.9			G2/5000
FVH	(80°-90°)	18.0	0.2			G1/100
BL	(0°-30°)	6.7	0.1	B0/110		
BM	(30°-60°)	37.4	0.4	B0/220		
BH	(60°-80°)	23.3	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2.5°	56.7	56.7	54.4	51.4	48.4	45.4	44.6	43.1	42.3	41.6
5°	59.0	59.0	58.2	55.9	52.9	50.7	50.7	48.4	46.9	45.4
7.5°	60.5	61.2	62.8	62.0	60.5	58.2	58.2	56.7	54.4	50.7
10°	62.8	65.0	68.0	69.6	70.3	70.3	69.6	68.8	65.0	59.7
12.5°	65.0	69.6	77.1	84.7	89.2	95.3	94.5	93.0	83.2	71.8
15°	69.6	76.4	92.2	114.2	148.2	169.4	177.7	170.1	137.6	96.8
17.5°	74.8	86.2	133.8	238.9	391.6	464.2	508.1	472.5	313.0	183.7
20°	80.1	105.1	248.7	619.2	1016.1	1253.5	1319.3	1216.5	781.0	350.0
22.5°	89.2	147.4	504.3	1280.0	2189.5	2545.6	2612.9	2284.0	1475.0	691.0
25°	108.1	214.0	869.4	2085.9	3267.6	3868.7	3840.7	3409.7	2392.9	1103.8
27.5°	135.3	311.5	1314.8	2963.7	4300.4	4830.4	4893.9	4360.8	3189.7	1623.2
30°	174.6	431.7	1792.6	3666.8	5128.2	5701.3	5711.9	5160.7	3902.7	2079.1
32.5°	212.4	545.1	2210.7	4346.5	5944.0	6572.3	6619.1	5941.0	4434.9	2553.9
35°	241.2	619.2	2634.0	4943.8	6766.6	7632.2	7629.2	6824.0	5065.5	2978.0
37.5°	243.4	693.3	3017.4	5554.6	7808.4	8777.6	8873.7	7986.1	5827.6	3502.7
40°	238.2	776.5	3502.7	6507.3	9685.7	11172.8	11257.5	10138.5	7356.3	4400.9
42.5°	244.2	920.9	4290.5	8266.6	12802.8	14938.6	15101.9	13925.5	10166.5	6233.6
45°	276.0	1192.3	5941.0	11209.8	17246.1	19849.9	19795.4	18101.2	13436.4	9023.4
47.5°	381.0	1856.8	8387.5	14074.5	20085.8	22404.5	22451.4	20380.6	15344.6	11168.2
50°	585.9	2841.2	10443.2	15588.8	21306.8	23633.1	23589.3	21196.4	16069.7	12224.4
52.5°	762.1	3553.4	11474.4	16120.3	21463.3	24240.2	24237.2	21411.1	16182.3	12315.2
55°	805.9	3607.1	11482.8	16149.1	21814.1	25034.8	25134.6	21939.6	16328.2	11919.0
57.5°	788.6	3193.5	11003.4	16315.4	22438.6	25649.5	25654.8	22451.4	16698.7	11676.3
58°	773.4	3128.5	10906.7	16409.9	22545.9	25675.2	25662.3	22474.9	17000.4	11667.2
60°	688.8	2716.5	10529.4	16651.1	22386.4	25147.5	25027.2	21963.0	16955.7	11574.2
62.5°	541.3	2119.2	10158.2	16372.1	20676.2	22592.8	22642.7	19444.6	15457.3	11032.2
65°	430.9	1579.4	9384.0	14361.0	17026.1	18553.3	18739.2	15811.9	12901.9	9341.7
67.5°	343.2	1141.6	7871.9	11433.6	13472.7	15484.5	15619.8	13275.3	9995.6	7157.4
70°	279.0	771.9	5433.7	8361.8	11112.3	13374.4	13382.7	11028.4	7460.6	4689.7
72.5°	247.2	534.5	3154.2	6098.2	9010.5	10898.3	10678.3	8949.3	5733.8	2777.7
75°	214.0	354.6	1546.9	3728.0	5463.2	5500.2	5584.1	4151.4	2866.2	1320.8
77.5°	176.2	251.8	609.4	1018.4	1638.3	2097.3	2175.1	1648.2	953.4	325.1
80°	121.0	119.5	164.1	312.2	468.7	587.4	548.1	424.1	249.5	124.7
82.5°	52.2	56.7	74.1	89.2	72.6	70.3	67.3	43.1	33.3	25.7
85°	16.6	15.1	15.9	15.9	12.9	9.8	9.8	4.5	0.0	0.0
87.5°	8.3	6.8	6.8	6.0	3.8	1.5	0.8	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°
43.9	0°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
40.8	2.5°	40.1	40.1	38.6	37.0	36.3	34.8	34.0	33.3	32.5	31.8
43.9	5°	42.3	41.6	39.3	37.0	34.8	32.5	31.0	29.5	28.0	27.2
48.4	7.5°	46.1	44.6	40.1	36.3	33.3	30.2	28.7	26.5	24.9	22.7
53.7	10°	50.7	47.6	41.6	37.0	32.5	28.7	26.5	24.2	21.9	18.9
61.2	12.5°	56.7	51.4	43.9	36.3	31.0	26.5	24.2	21.2	18.9	16.6
71.1	15°	62.0	55.2	44.6	36.3	29.5	24.2	21.2	18.1	15.9	12.9
89.2	17.5°	69.6	58.2	43.9	34.0	27.2	21.2	18.1	15.9	12.1	7.6
132.3	20°	82.4	60.5	42.3	31.8	23.4	17.4	13.6	10.6	5.3	1.5
198.8	22.5°	102.8	66.5	40.8	28.7	20.4	13.6	9.1	3.8	0.0	0.0
302.4	25°	142.1	77.1	40.8	27.2	18.1	9.8	3.0	0.0	0.0	0.0
429.4	27.5°	189.0	91.5	40.8	23.4	14.4	5.3	0.0	0.0	0.0	0.0
585.2	30°	236.6	107.4	40.8	20.4	11.3	0.8	0.0	0.0	0.0	0.0
720.5	32.5°	282.0	121.0	41.6	17.4	7.6	0.0	0.0	0.0	0.0	0.0
908.0	35°	328.1	123.2	40.8	15.1	4.5	0.0	0.0	0.0	0.0	0.0
1137.8	37.5°	387.1	118.7	38.6	13.6	2.3	0.0	0.0	0.0	0.0	0.0
1497.0	40°	476.3	121.0	36.3	12.9	0.8	0.0	0.0	0.0	0.0	0.0
2137.3	42.5°	641.1	130.8	33.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0
3404.5	45°	1108.4	175.4	30.2	13.6	0.0	0.0	0.0	0.0	0.0	0.0
5110.8	47.5°	1833.4	315.3	29.5	13.6	0.0	0.0	0.0	0.0	0.0	0.0
6156.4	50°	2339.9	396.9	31.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0
6287.2	52.5°	2336.2	442.3	32.5	15.1	3.0	0.0	0.0	0.0	0.0	0.0
5795.1	55°	2076.8	450.6	34.8	16.6	9.8	0.0	0.0	0.0	0.0	0.0
4980.0	57.5°	1735.9	411.3	40.1	20.4	18.1	0.0	0.0	0.0	0.0	0.0
4852.3	58°	1675.4	393.1	41.6	21.2	19.7	0.0	0.0	0.0	0.0	0.0
4208.9	60°	1373.0	320.6	52.9	26.5	26.5	0.0	0.0	0.0	0.0	0.0
3450.6	62.5°	948.1	279.7	60.5	34.0	27.2	0.0	0.0	0.0	0.0	0.0
2544.1	65°	670.6	252.5	65.8	36.3	21.9	0.0	0.0	0.0	0.0	0.0
1807.7	67.5°	501.3	232.9	72.6	37.0	11.3	0.0	0.0	0.0	0.0	0.0
1134.1	70°	384.1	218.5	89.2	39.3	3.0	0.0	0.0	0.0	0.0	0.0
675.9	72.5°	313.0	201.9	108.1	40.8	0.0	0.0	0.0	0.0	0.0	0.0
405.2	75°	259.3	182.2	104.3	44.6	0.0	0.0	0.0	0.0	0.0	0.0
216.2	77.5°	172.4	141.4	95.3	44.6	0.0	0.0	0.0	0.0	0.0	0.0
77.1	80°	60.5	55.9	74.1	39.3	0.0	0.0	0.0	0.0	0.0	0.0
15.9	82.5°	9.1	7.6	10.6	13.6	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°
43.9	0°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
31.0	2.5°	31.0	31.0	30.2	31.0	31.0	32.5	36.3	41.6	47.6	49.9
26.5	5°	25.7	24.9	24.2	24.2	24.2	26.5	29.5	35.5	42.3	45.4
21.9	7.5°	21.2	20.4	19.7	18.9	18.9	20.4	24.2	31.0	37.8	40.8
18.1	10°	17.4	15.9	15.1	14.4	14.4	15.9	19.7	26.5	34.0	37.0
15.1	12.5°	14.4	12.1	10.6	9.8	9.1	11.3	15.1	21.2	29.5	33.3
11.3	15°	9.8	7.6	5.3	4.5	3.8	6.0	9.8	16.6	24.9	29.5
6.0	17.5°	5.3	2.3	0.8	0.0	0.0	1.5	4.5	12.1	20.4	24.2
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	15.1	18.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	9.1	12.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.8
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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	2.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0
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°
43.9	0°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
52.2	2.5°	53.7	52.9	51.4	49.9	49.9	49.9	52.2	54.4	56.7	56.7
46.9	5°	49.9	49.9	49.1	47.6	47.6	48.4	51.4	55.2	58.2	59.0
43.1	7.5°	46.1	47.6	46.1	45.4	46.1	46.9	49.9	54.4	59.0	60.5
40.1	10°	43.9	44.6	44.6	43.9	43.9	45.4	48.4	54.4	60.5	62.8
36.3	12.5°	40.8	42.3	41.6	41.6	41.6	43.1	46.9	53.7	62.0	65.0
32.5	15°	37.8	40.1	40.1	39.3	39.3	40.1	45.4	52.9	64.3	69.6
28.0	17.5°	34.8	37.0	37.8	36.3	36.3	37.8	43.1	52.9	65.8	74.8
22.7	20°	28.7	32.5	34.8	32.5	32.5	34.0	39.3	49.9	66.5	80.1
16.6	22.5°	22.7	26.5	29.5	28.7	28.7	29.5	36.3	47.6	67.3	89.2
9.8	25°	16.6	20.4	22.7	24.2	24.2	26.5	33.3	46.1	70.3	108.1
4.5	27.5°	9.8	14.4	17.4	18.9	19.7	22.7	31.0	44.6	75.6	135.3
0.0	30°	4.5	8.3	12.1	15.1	15.1	20.4	28.7	43.1	82.4	174.6
0.0	32.5°	0.0	3.8	6.0	10.6	11.3	16.6	26.5	41.6	92.2	212.4
0.0	35°	0.0	0.0	3.0	8.3	8.3	13.6	24.2	40.1	107.4	241.2
0.0	37.5°	0.0	0.0	0.0	6.0	6.8	12.1	23.4	39.3	110.4	243.4
0.0	40°	0.0	0.0	0.0	4.5	5.3	11.3	23.4	40.1	99.8	238.2
0.0	42.5°	0.0	0.0	0.0	3.0	3.8	11.3	23.4	41.6	90.0	244.2
0.0	45°	0.0	0.0	0.0	2.3	3.0	12.1	22.7	40.8	84.7	276.0
0.0	47.5°	0.0	0.0	0.0	3.0	4.5	12.1	21.9	40.1	85.4	381.0
0.0	50°	0.0	0.0	0.0	3.8	5.3	12.1	22.7	38.6	93.7	585.9
0.0	52.5°	0.0	0.0	0.0	3.0	4.5	13.6	24.9	37.8	102.1	762.1
0.0	55°	0.0	0.0	0.0	0.8	2.3	17.4	27.2	37.8	114.9	805.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	19.7	31.0	40.1	136.1	788.6
0.0	58°	0.0	0.0	0.0	0.0	0.0	19.7	31.8	40.1	137.6	773.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	19.7	34.8	44.6	148.2	688.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	16.6	41.6	55.9	154.2	541.3
0.0	65°	0.0	0.0	0.0	0.0	0.0	13.6	49.1	61.2	158.8	430.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	12.9	50.7	62.0	161.0	343.2
0.0	70°	0.0	0.0	0.0	0.0	0.0	13.6	49.9	66.5	168.6	279.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	15.1	45.4	73.3	168.6	247.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	15.9	42.3	82.4	153.5	214.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	15.1	41.6	96.0	136.8	176.2
0.0	80°	1.5	2.3	2.3	1.5	1.5	12.9	40.8	97.5	116.4	121.0
0.8	82.5°	4.5	6.0	5.3	3.8	3.8	11.3	36.3	81.7	60.5	52.2
4.5	85°	8.3	9.8	9.8	8.3	8.3	10.6	22.7	29.5	20.4	16.6
8.3	87.5°	11.3	12.9	12.9	11.3	11.3	10.6	9.8	9.1	8.3	8.3
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: SP1-2407-184-1

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-740-U-5WQ

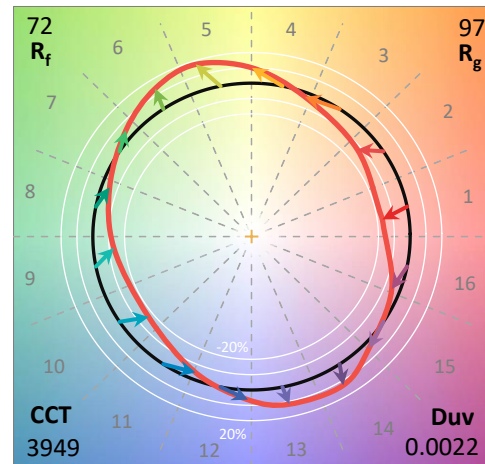
Data in this report applies to families of products including GSS-SB1A-740-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-1
 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-740-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K):	3949	CRI (Ra):	70.7		
CIE u':	0.2248	R1:	68.0	R9:	-36.7
CIE v':	0.5053	R2:	76.0	R10:	45.1
Duv:	0.0022	R3:	84.3	R11:	70.7
CIE x:	0.3844	R4:	72.0	R12:	47.1
CIE y:	0.3840	R5:	68.6	R13:	68.5
CIE z:	0.2316	R6:	68.3	R14:	91.1
Peak Wavelength (nm):	440	R7:	77.9	R15:	58.7
Dominant Wavelength (nm):	578	R8:	50.3		
Purity:	30.60026				
Rf:	71.8				
Rg:	96.5				



Test Conditions

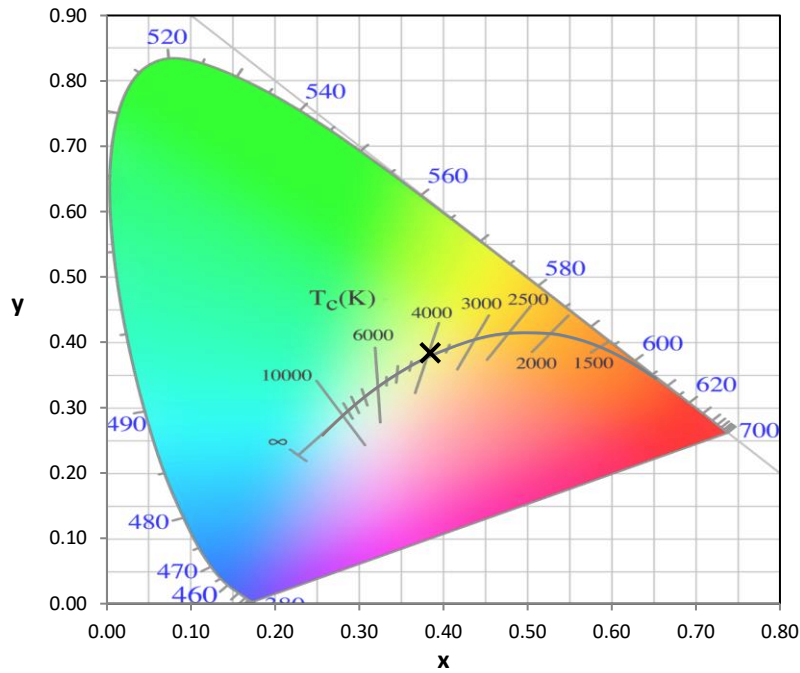
Stabilization Time: 34M
 Operation Time: 1H 34M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-1

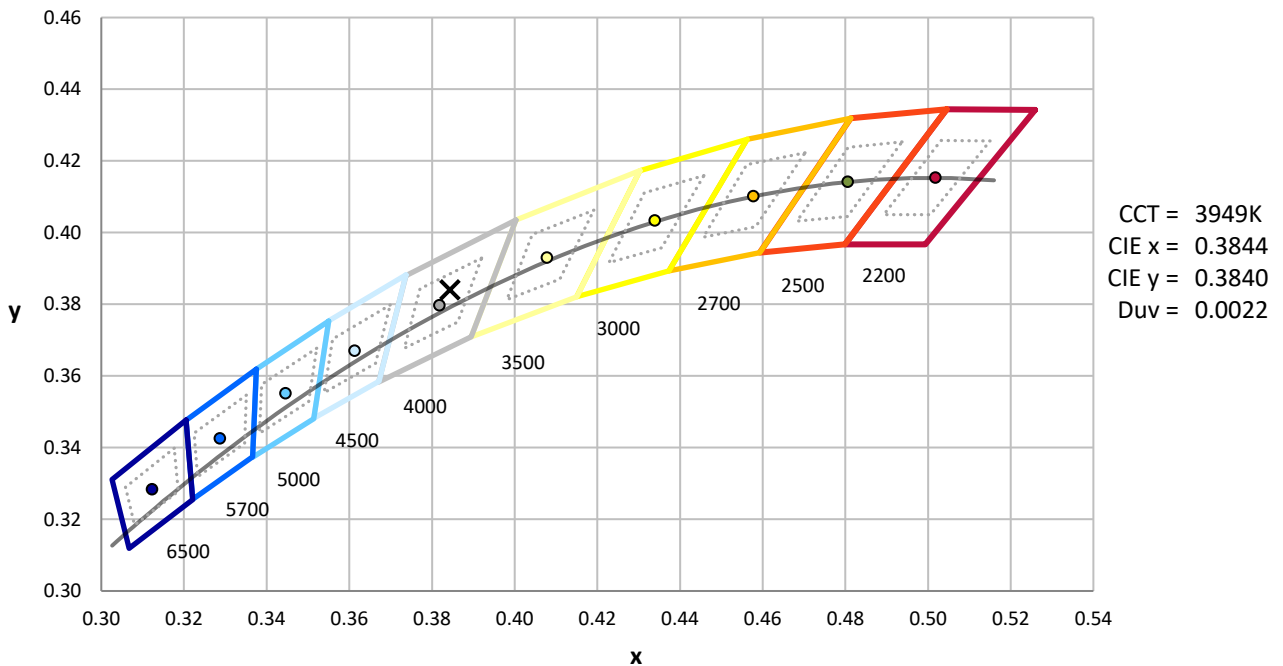
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



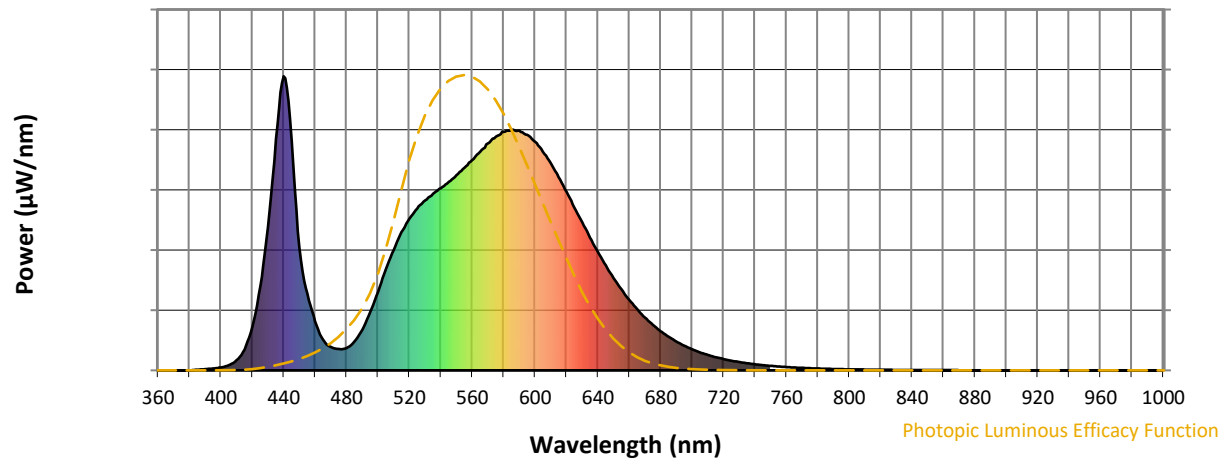
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-1

Photopic Flux vs. Wavelength

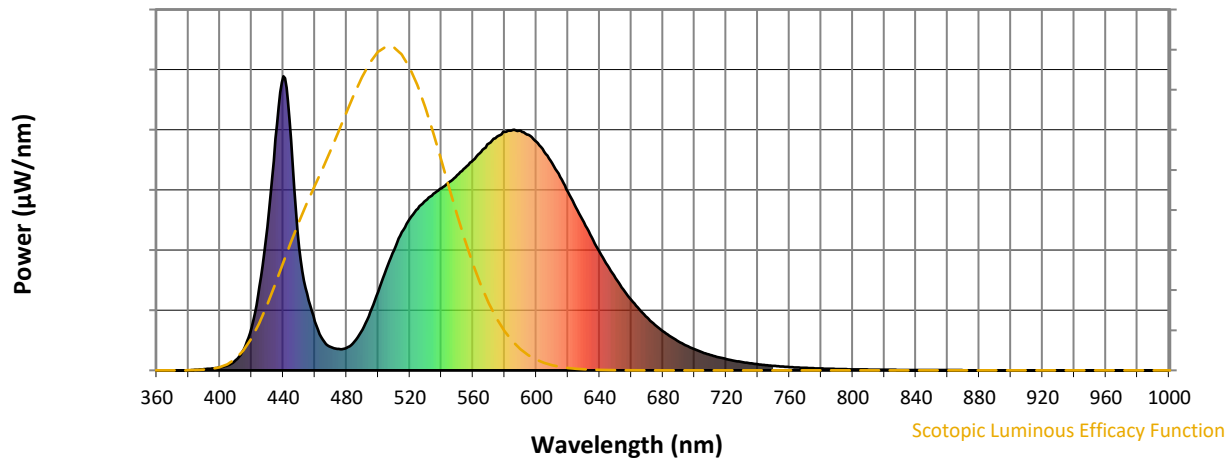


Photopic Lumens: NR

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

Scotopic Flux vs. Wavelength



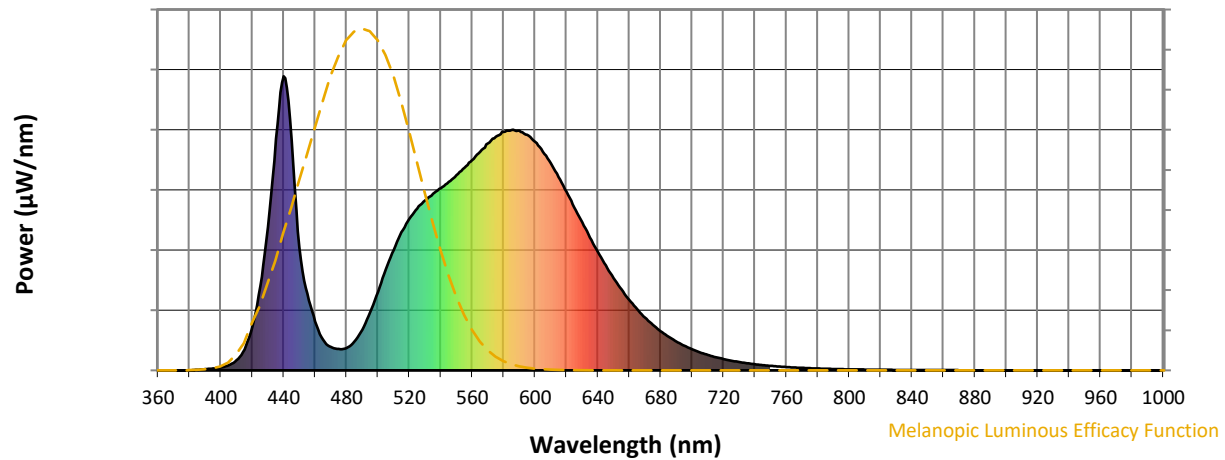
Scotopic Lumens: NR

S/P: 1.47

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	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.78

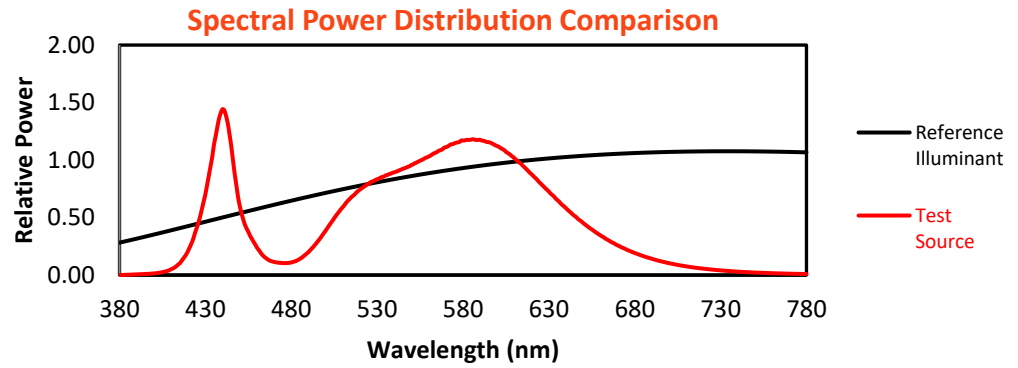
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	139	NR	620	607	NR	750	15	NR	880	0	NR
365	0	NR	495	198	NR	625	554	NR	755	13	NR	885	0	NR
370	0	NR	500	267	NR	630	504	NR	760	11	NR	890	0	NR
375	0	NR	505	343	NR	635	452	NR	765	10	NR	895	0	NR
380	0	NR	510	410	NR	640	403	NR	770	8	NR	900	0	NR
385	2	NR	515	470	NR	645	357	NR	775	7	NR	905	0	NR
390	4	NR	520	516	NR	650	314	NR	780	6	NR	910	0	NR
395	7	NR	525	550	NR	655	275	NR	785	5	NR	915	0	NR
400	10	NR	530	578	NR	660	240	NR	790	5	NR	920	0	NR
405	17	NR	535	601	NR	665	208	NR	795	4	NR	925	0	NR
410	35	NR	540	620	NR	670	179	NR	800	4	NR	930	0	NR
415	70	NR	545	641	NR	675	155	NR	805	3	NR	935	0	NR
420	147	NR	550	664	NR	680	133	NR	810	3	NR	940	0	NR
425	285	NR	555	689	NR	685	114	NR	815	2	NR	945	0	NR
430	487	NR	560	715	NR	690	98	NR	820	2	NR	950	0	NR
435	787	NR	565	743	NR	695	84	NR	825	2	NR	955	0	NR
440	1000	NR	570	771	NR	700	72	NR	830	2	NR	960	0	NR
445	783	NR	575	794	NR	705	61	NR	835	1	NR	965	0	NR
450	417	NR	580	811	NR	710	52	NR	840	1	NR	970	0	NR
455	261	NR	585	817	NR	715	45	NR	845	1	NR	975	0	NR
460	167	NR	590	815	NR	720	39	NR	850	1	NR	980	0	NR
465	104	NR	595	801	NR	725	33	NR	855	1	NR	985	0	NR
470	79	NR	600	777	NR	730	28	NR	860	1	NR	990	0	NR
475	73	NR	605	744	NR	735	24	NR	865	1	NR	995	0	NR
480	76	NR	610	704	NR	740	21	NR	870	1	NR	1000	0	NR
485	98	NR	615	657	NR	745	18	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-1

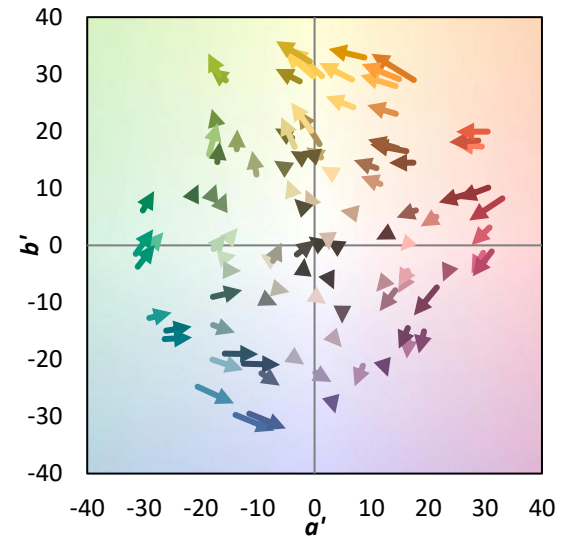
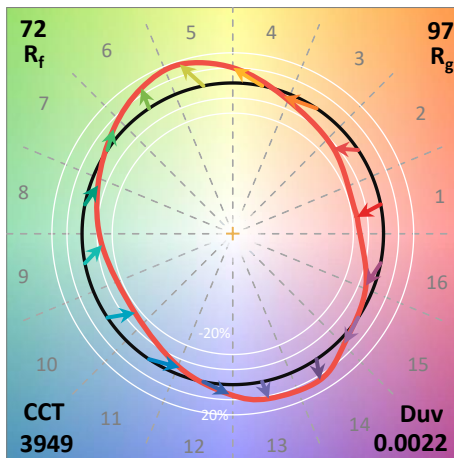
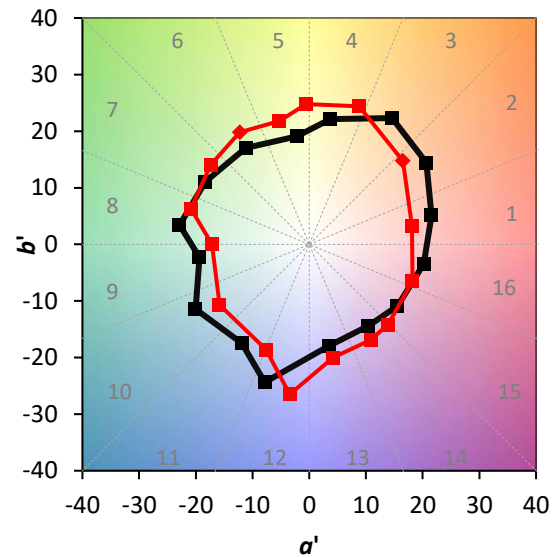
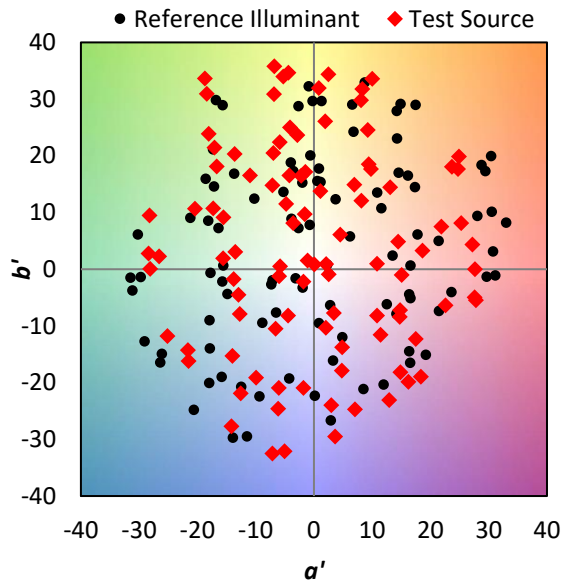
TM-30-18

Summary

$R_f = 71.8$
 $R_g = 96.5$
 $CIE R_a = 70.7$
 $R_g = -36.7$

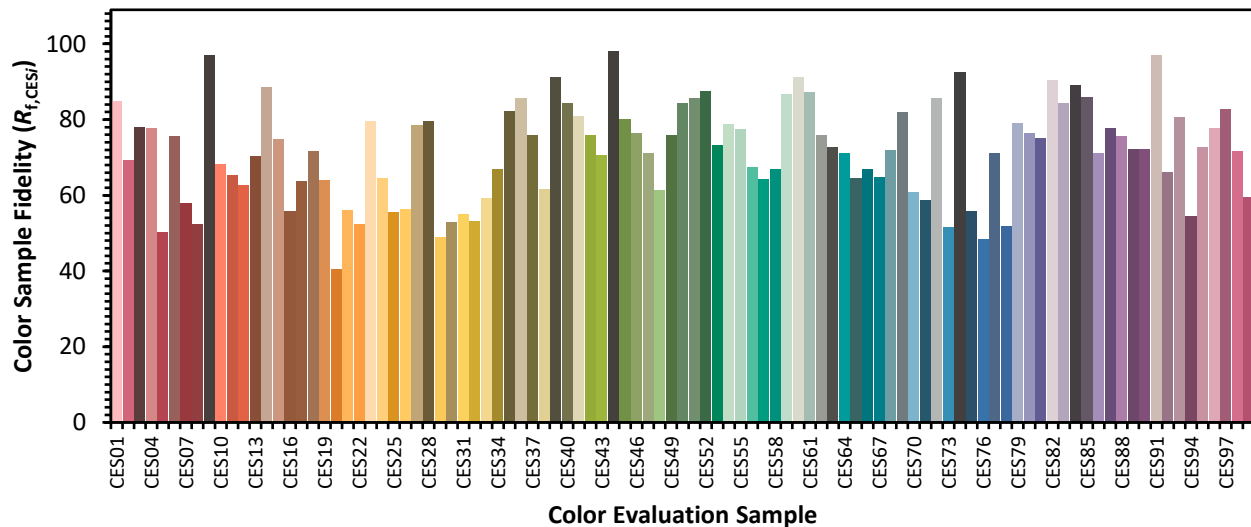


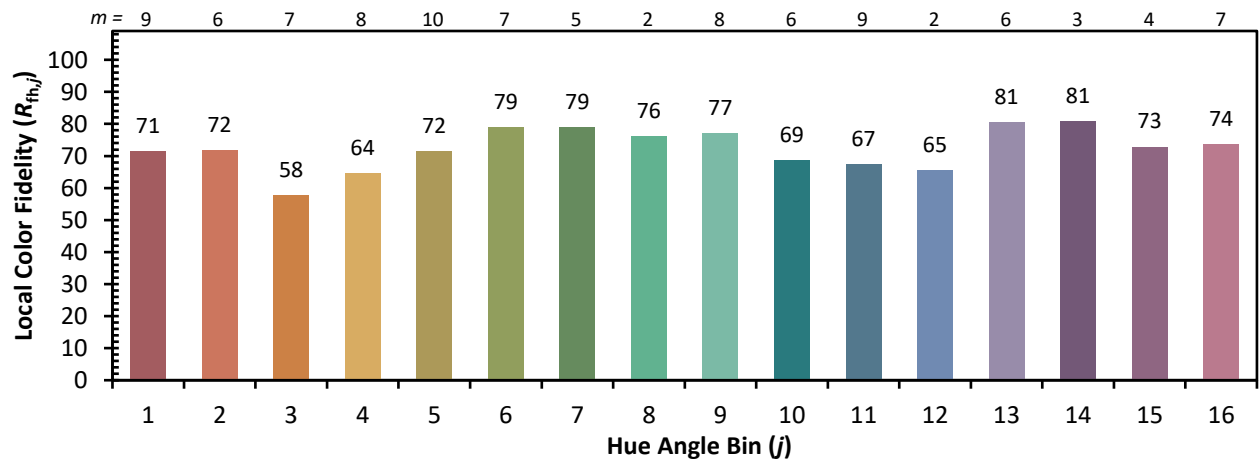
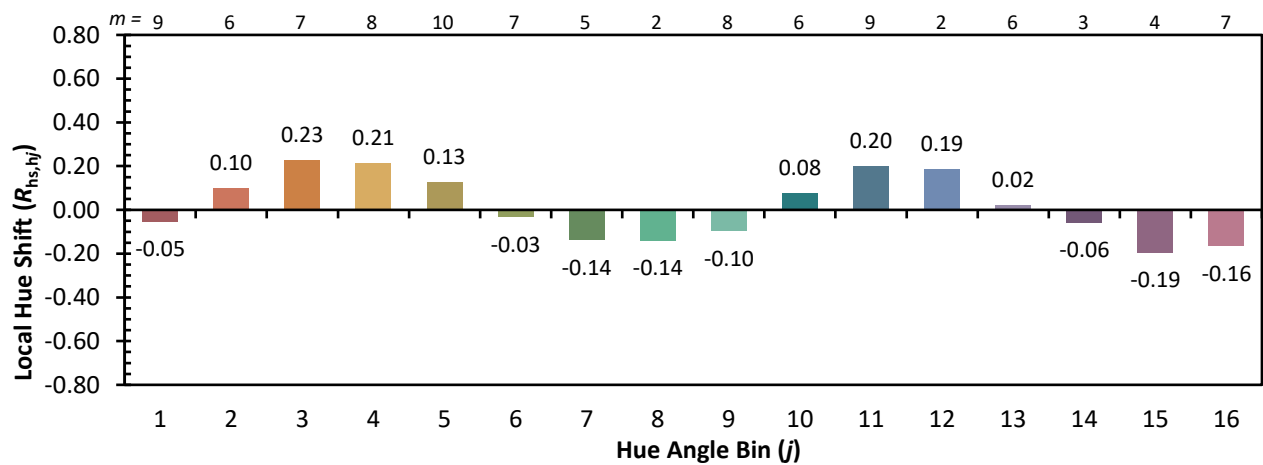
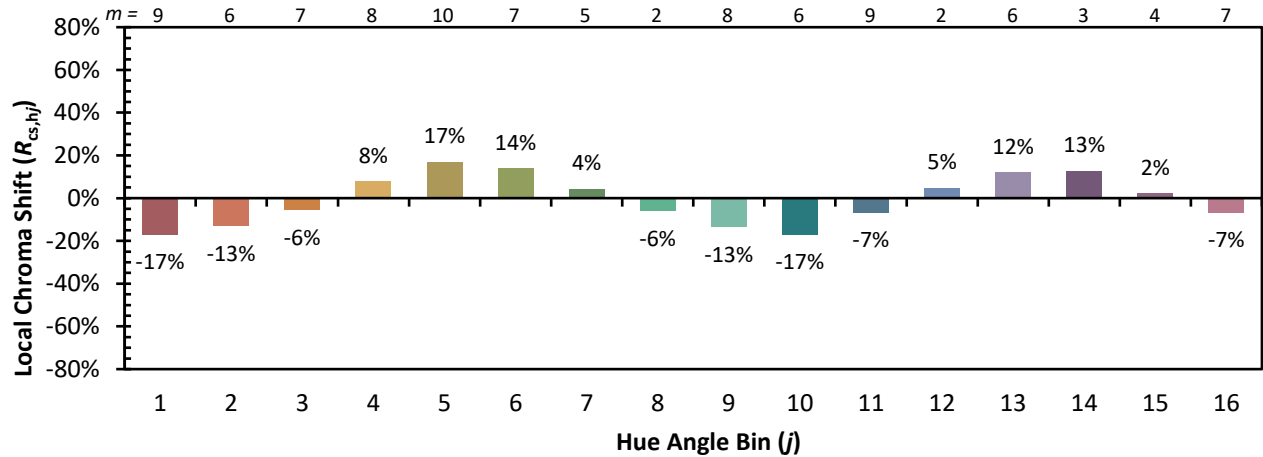
Color Vector Graphics



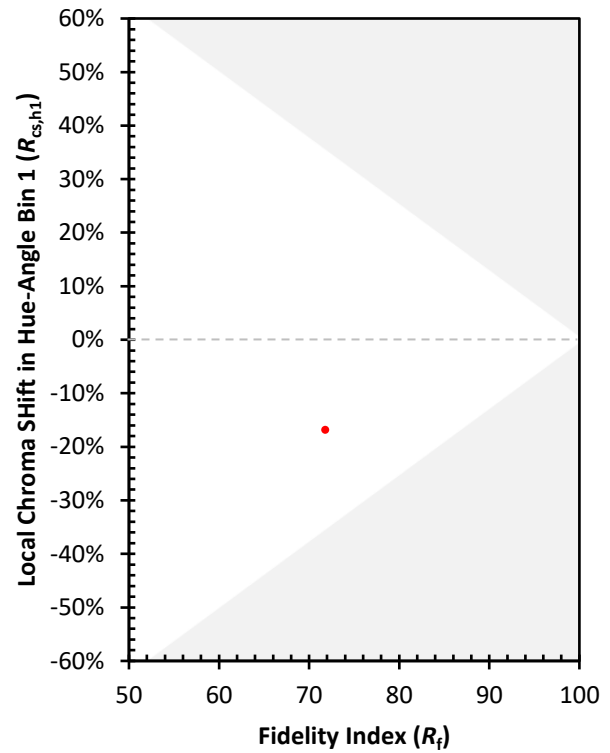
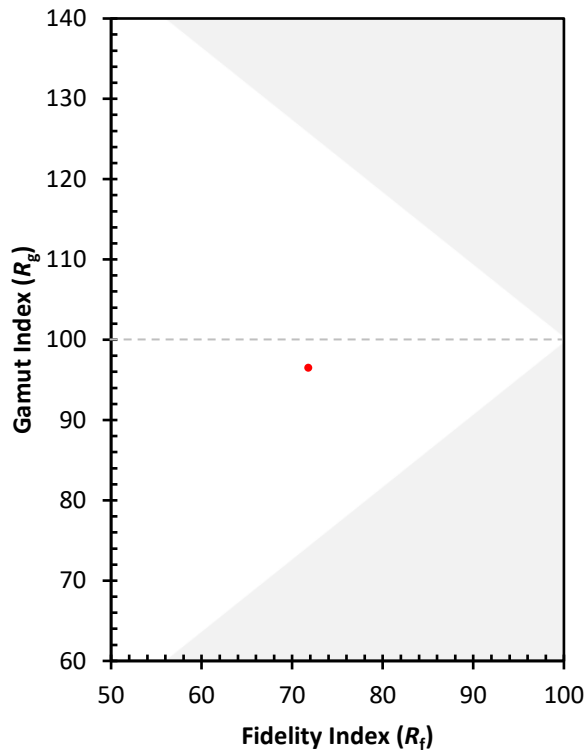
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 56	CES51 = 86	CES76 = 48
CES02 = 61	CES27 = 79	CES52 = 88	CES77 = 71
CES03 = 30	CES28 = 80	CES53 = 73	CES78 = 52
CES04 = 70	CES29 = 49	CES54 = 79	CES79 = 79
CES05 = 47	CES30 = 53	CES55 = 77	CES80 = 77
CES06 = 50	CES31 = 55	CES56 = 67	CES81 = 75
CES07 = 40	CES32 = 53	CES57 = 64	CES82 = 90
CES08 = 39	CES33 = 59	CES58 = 67	CES83 = 84
CES09 = 29	CES34 = 67	CES59 = 87	CES84 = 89
CES10 = 74	CES35 = 82	CES60 = 91	CES85 = 86
CES11 = 57	CES36 = 86	CES61 = 87	CES86 = 71
CES12 = 63	CES37 = 76	CES62 = 76	CES87 = 78
CES13 = 42	CES38 = 62	CES63 = 73	CES88 = 76
CES14 = 74	CES39 = 91	CES64 = 71	CES89 = 72
CES15 = 71	CES40 = 84	CES65 = 64	CES90 = 72
CES16 = 46	CES41 = 81	CES66 = 67	CES91 = 97
CES17 = 49	CES42 = 76	CES67 = 65	CES92 = 66
CES18 = 56	CES43 = 71	CES68 = 72	CES93 = 81
CES19 = 72	CES44 = 98	CES69 = 82	CES94 = 55
CES20 = 65	CES45 = 80	CES70 = 61	CES95 = 73
CES21 = 86	CES46 = 76	CES71 = 59	CES96 = 78
CES22 = 78	CES47 = 71	CES72 = 86	CES97 = 83
CES23 = 92	CES48 = 61	CES73 = 52	CES98 = 72
CES24 = 91	CES49 = 76	CES74 = 93	CES99 = 60
CES25 = 72	CES50 = 84	CES75 = 56	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)