

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: P1049970

Luminaire Tested: **GALN-SA2B-935-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049970
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-935-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 2xLight Square PACKAGE
90CRI 3500K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (28) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6108.7 lumens
Efficiency: N/A
Efficacy: 83.9 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

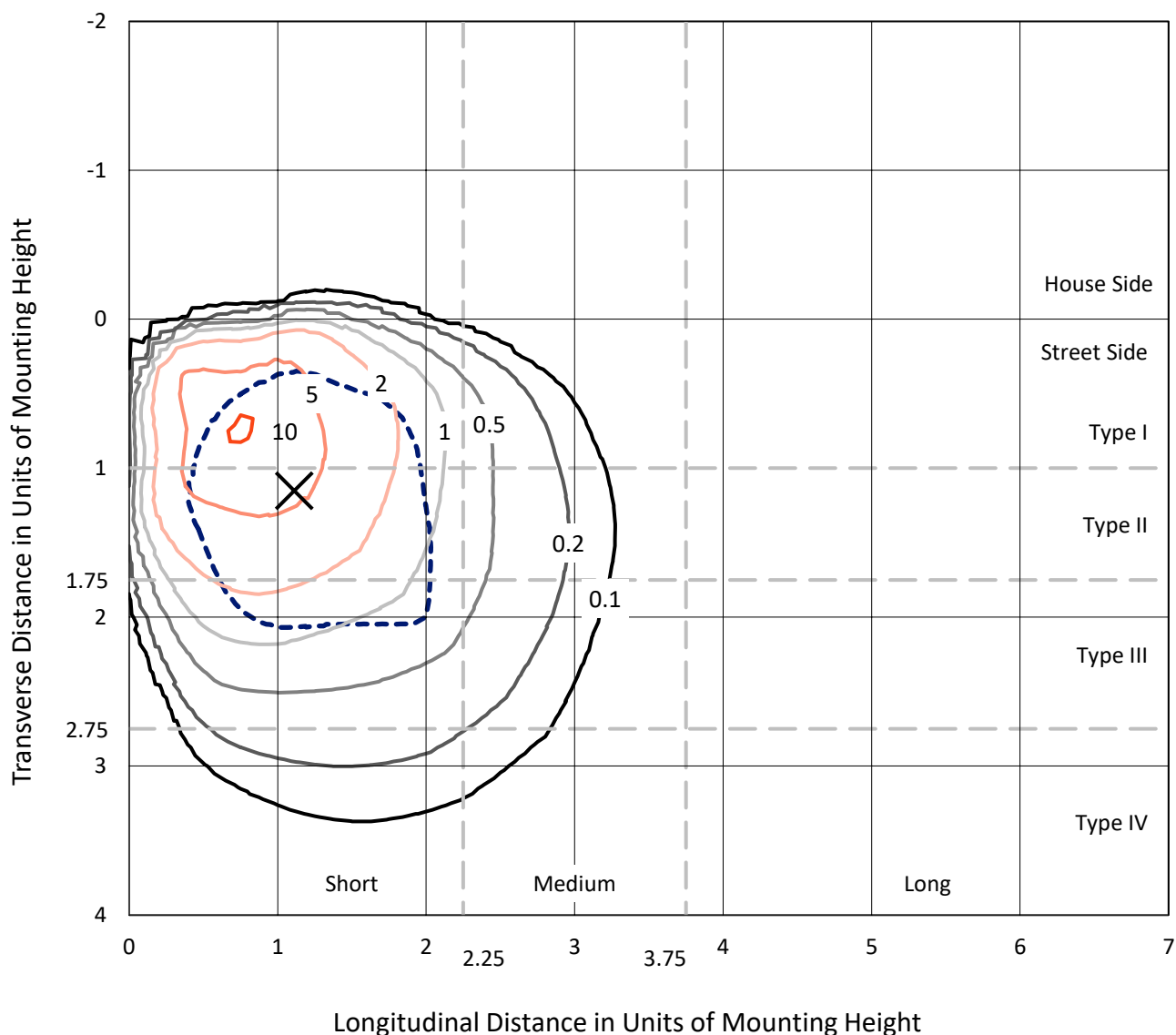
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

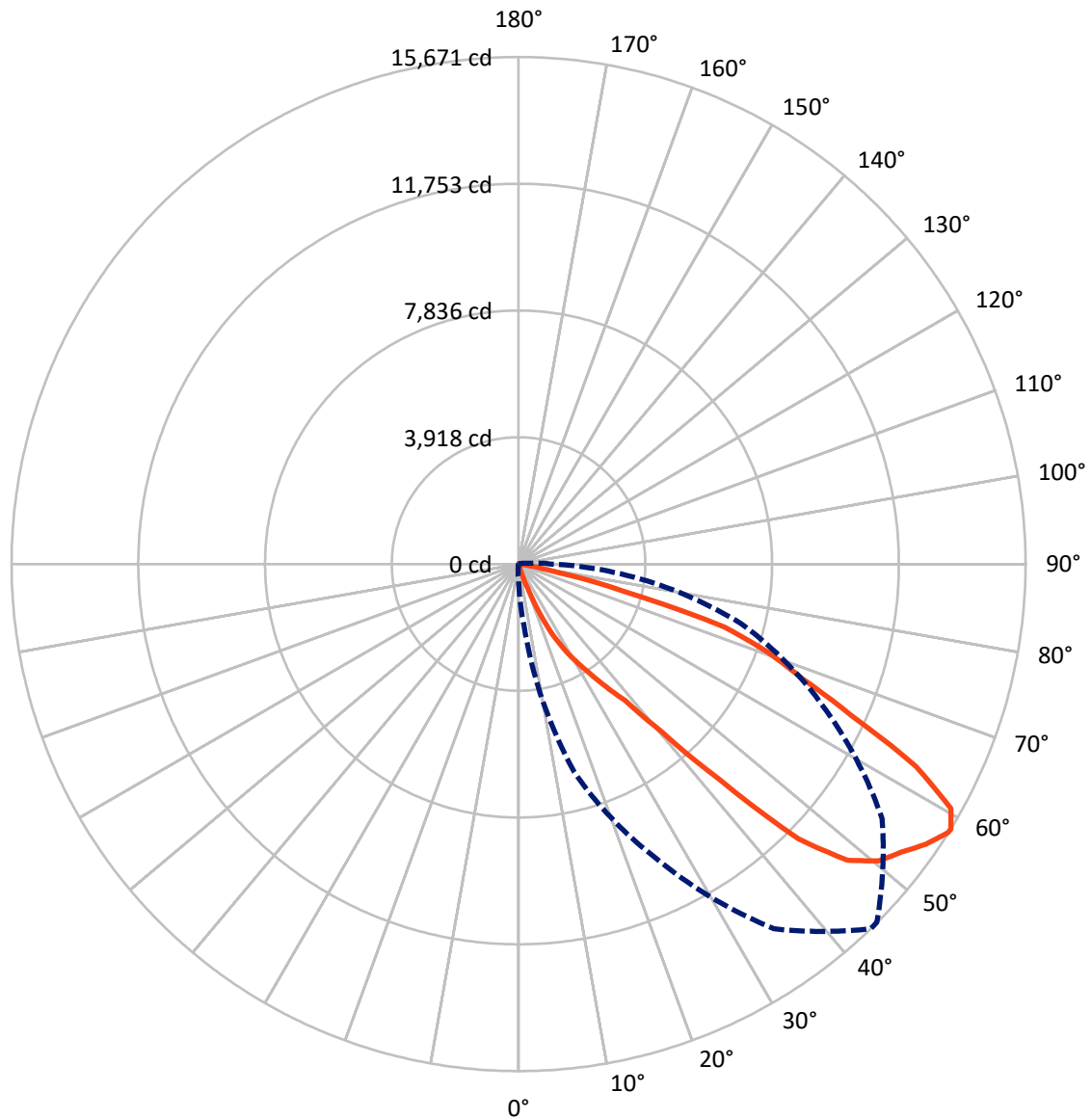


Based on 20 foot mounting height. Maximum calculated value = 10.6 fc

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	41.7	0.0	41.7
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	6067.0	0.0	6067.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	6108.7	0.0	6108.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.0
10°-20°	13.4	0.2
20°-30°	144.7	2.4
30°-40°	428.0	7.0
40°-50°	1275.6	20.9
50°-60°	2024.1	33.1
60°-70°	1688.3	27.6
70°-80°	520.7	8.5
80°-90°	11.6	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°	6108.7	100.0
0°-180°	6108.7	100.0



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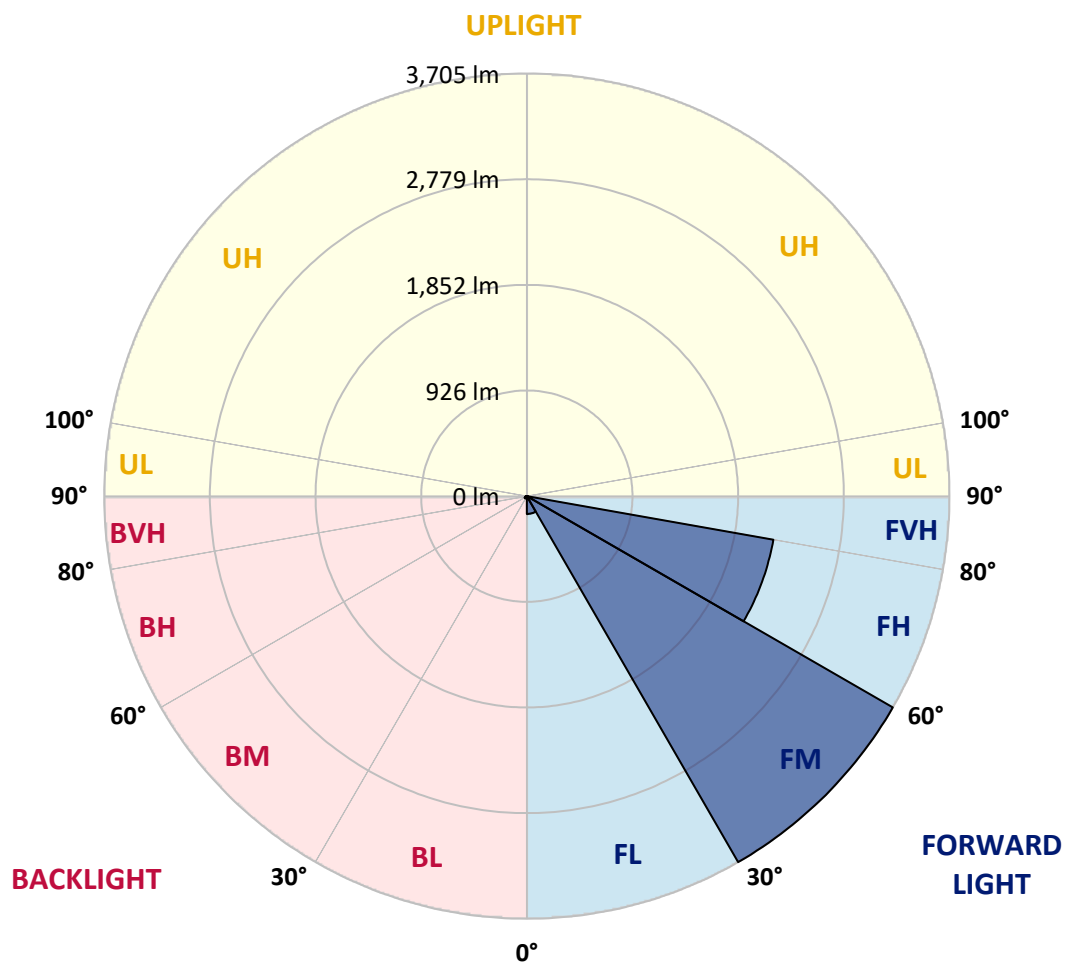
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	156.4	2.6			
FM	(30°-60°)	3704.8	60.6			
FH	(60°-80°)	2194.8	35.9			G2/5000
FVH	(80°-90°)	11.0	0.2			G1/100
BL	(0°-30°)	4.1	0.1	B0/110		
BM	(30°-60°)	22.8	0.4	B0/220		
BH	(60°-80°)	14.2	0.2	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
2.5°	34.6	34.6	33.2	31.4	29.5	27.7	27.2	26.3	25.8	25.4
5°	36.0	36.0	35.5	34.1	32.3	30.9	30.9	29.5	28.6	27.7
7.5°	36.9	37.4	38.3	37.8	36.9	35.5	35.5	34.6	33.2	30.9
10°	38.3	39.7	41.5	42.5	42.9	42.9	42.5	42.0	39.7	36.5
12.5°	39.7	42.5	47.1	51.7	54.5	58.1	57.7	56.8	50.8	43.8
15°	42.5	46.6	56.3	69.7	90.4	103.4	108.4	103.8	84.0	59.1
17.5°	45.7	52.6	81.7	145.8	239.0	283.3	310.1	288.4	191.0	112.1
20°	48.9	64.1	151.8	377.9	620.2	765.1	805.3	742.5	476.7	213.7
22.5°	54.5	90.0	307.8	781.3	1336.4	1553.7	1594.8	1394.1	900.3	421.8
25°	66.0	130.6	530.7	1273.2	1994.4	2361.3	2344.2	2081.2	1460.5	673.7
27.5°	82.6	190.1	802.5	1808.9	2624.8	2948.3	2987.1	2661.7	1946.9	990.8
30°	106.6	263.5	1094.1	2238.1	3130.1	3479.9	3486.4	3149.9	2382.1	1269.0
32.5°	129.7	332.7	1349.3	2653.0	3628.0	4011.5	4040.1	3626.2	2706.9	1558.8
35°	147.2	377.9	1607.7	3017.5	4130.1	4658.5	4656.6	4165.2	3091.8	1817.7
37.5°	148.6	423.2	1841.7	3390.4	4766.0	5357.6	5416.2	4874.4	3557.0	2138.0
40°	145.4	473.9	2138.0	3971.8	5911.8	6819.5	6871.2	6188.2	4490.0	2686.2
42.5°	149.1	562.1	2618.8	5045.6	7814.4	9118.1	9217.7	8499.7	6205.3	3804.8
45°	168.4	727.7	3626.2	6842.1	10526.4	12115.7	12082.5	11048.4	8201.1	5507.6
47.5°	232.6	1133.4	5119.5	8590.6	12259.7	13675.0	13703.6	12439.7	9365.9	6816.7
50°	357.6	1734.2	6374.2	9514.9	13005.0	14424.9	14398.1	12937.6	9808.4	7461.4
52.5°	465.2	2168.9	7003.6	9839.3	13100.5	14795.4	14793.6	13068.6	9877.2	7516.8
55°	491.9	2201.6	7008.7	9856.9	13314.6	15280.4	15341.3	13391.2	9966.2	7275.0
57.5°	481.3	1949.2	6716.1	9958.4	13695.8	15655.6	15658.8	13703.6	10192.3	7126.8
58°	472.1	1909.5	6657.1	10016.1	13761.3	15671.3	15663.4	13717.9	10376.5	7121.3
60°	420.4	1658.0	6426.8	10163.3	13663.9	15349.2	15275.8	13405.5	10349.2	7064.5
62.5°	330.4	1293.5	6200.2	9993.0	12620.1	13789.9	13820.4	11868.4	9434.6	6733.7
65°	263.0	964.0	5727.7	8765.5	10392.2	11324.3	11437.8	9651.0	7874.9	5701.8
67.5°	209.5	696.8	4804.8	6978.7	8223.3	9451.2	9533.8	8102.8	6101.0	4368.7
70°	170.3	471.2	3316.5	5103.8	6782.6	8163.3	8168.4	6731.4	4553.7	2862.5
72.5°	150.9	326.3	1925.2	3722.2	5499.7	6652.0	6517.7	5462.3	3499.7	1695.4
75°	130.6	216.4	944.2	2275.5	3334.5	3357.1	3408.4	2533.9	1749.4	806.2
77.5°	107.5	153.7	371.9	621.6	1000.0	1280.1	1327.6	1006.0	581.9	198.4
80°	73.8	72.9	100.1	190.6	286.1	358.6	334.6	258.9	152.3	76.1
82.5°	31.8	34.6	45.2	54.5	44.3	42.9	41.1	26.3	20.3	15.7
85°	10.2	9.2	9.7	9.7	7.8	6.0	6.0	2.8	0.0	0.0
87.5°	5.1	4.2	4.2	3.7	2.3	0.9	0.5	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°
26.8	0°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
24.9	2.5°	24.5	24.5	23.5	22.6	22.2	21.2	20.8	20.3	19.8	19.4
26.8	5°	25.8	25.4	24.0	22.6	21.2	19.8	18.9	18.0	17.1	16.6
29.5	7.5°	28.1	27.2	24.5	22.2	20.3	18.5	17.5	16.2	15.2	13.8
32.8	10°	30.9	29.1	25.4	22.6	19.8	17.5	16.2	14.8	13.4	11.5
37.4	12.5°	34.6	31.4	26.8	22.2	18.9	16.2	14.8	12.9	11.5	10.2
43.4	15°	37.8	33.7	27.2	22.2	18.0	14.8	12.9	11.1	9.7	7.8
54.5	17.5°	42.5	35.5	26.8	20.8	16.6	12.9	11.1	9.7	7.4	4.6
80.8	20°	50.3	36.9	25.8	19.4	14.3	10.6	8.3	6.5	3.2	0.9
121.4	22.5°	62.8	40.6	24.9	17.5	12.5	8.3	5.5	2.3	0.0	0.0
184.6	25°	86.8	47.1	24.9	16.6	11.1	6.0	1.8	0.0	0.0	0.0
262.1	27.5°	115.4	55.8	24.9	14.3	8.8	3.2	0.0	0.0	0.0	0.0
357.2	30°	144.4	65.5	24.9	12.5	6.9	0.5	0.0	0.0	0.0	0.0
439.8	32.5°	172.1	73.8	25.4	10.6	4.6	0.0	0.0	0.0	0.0	0.0
554.2	35°	200.3	75.2	24.9	9.2	2.8	0.0	0.0	0.0	0.0	0.0
694.5	37.5°	236.3	72.4	23.5	8.3	1.4	0.0	0.0	0.0	0.0	0.0
913.7	40°	290.7	73.8	22.2	7.8	0.5	0.0	0.0	0.0	0.0	0.0
1304.6	42.5°	391.3	79.8	20.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
2078.0	45°	676.5	107.1	18.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0
3119.5	47.5°	1119.0	192.4	18.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0
3757.7	50°	1428.2	242.3	18.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0
3837.5	52.5°	1425.9	270.0	19.8	9.2	1.8	0.0	0.0	0.0	0.0	0.0
3537.1	55°	1267.6	275.0	21.2	10.2	6.0	0.0	0.0	0.0	0.0	0.0
3039.7	57.5°	1059.5	251.0	24.5	12.5	11.1	0.0	0.0	0.0	0.0	0.0
2961.7	58°	1022.6	240.0	25.4	12.9	12.0	0.0	0.0	0.0	0.0	0.0
2569.0	60°	838.0	195.7	32.3	16.2	16.2	0.0	0.0	0.0	0.0	0.0
2106.1	62.5°	578.7	170.7	36.9	20.8	16.6	0.0	0.0	0.0	0.0	0.0
1552.8	65°	409.3	154.1	40.1	22.2	13.4	0.0	0.0	0.0	0.0	0.0
1103.4	67.5°	306.0	142.1	44.3	22.6	6.9	0.0	0.0	0.0	0.0	0.0
692.2	70°	234.4	133.4	54.5	24.0	1.8	0.0	0.0	0.0	0.0	0.0
412.5	72.5°	191.0	123.2	66.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0
247.3	75°	158.3	111.2	63.7	27.2	0.0	0.0	0.0	0.0	0.0	0.0
132.0	77.5°	105.2	86.3	58.1	27.2	0.0	0.0	0.0	0.0	0.0	0.0
47.1	80°	36.9	34.1	45.2	24.0	0.0	0.0	0.0	0.0	0.0	0.0
9.7	82.5°	5.5	4.6	6.5	8.3	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°
26.8	0°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
18.9	2.5°	18.9	18.9	18.5	18.9	18.9	19.8	22.2	25.4	29.1	30.5
16.2	5°	15.7	15.2	14.8	14.8	14.8	16.2	18.0	21.7	25.8	27.7
13.4	7.5°	12.9	12.5	12.0	11.5	11.5	12.5	14.8	18.9	23.1	24.9
11.1	10°	10.6	9.7	9.2	8.8	8.8	9.7	12.0	16.2	20.8	22.6
9.2	12.5°	8.8	7.4	6.5	6.0	5.5	6.9	9.2	12.9	18.0	20.3
6.9	15°	6.0	4.6	3.2	2.8	2.3	3.7	6.0	10.2	15.2	18.0
3.7	17.5°	3.2	1.4	0.5	0.0	0.0	0.9	2.8	7.4	12.5	14.8
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.2	11.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.5	7.8
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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	1.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.7
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°
26.8	0°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
31.8	2.5°	32.8	32.3	31.4	30.5	30.5	30.5	31.8	33.2	34.6	34.6
28.6	5°	30.5	30.5	30.0	29.1	29.1	29.5	31.4	33.7	35.5	36.0
26.3	7.5°	28.1	29.1	28.1	27.7	28.1	28.6	30.5	33.2	36.0	36.9
24.5	10°	26.8	27.2	27.2	26.8	26.8	27.7	29.5	33.2	36.9	38.3
22.2	12.5°	24.9	25.8	25.4	25.4	25.4	26.3	28.6	32.8	37.8	39.7
19.8	15°	23.1	24.5	24.5	24.0	24.0	24.5	27.7	32.3	39.2	42.5
17.1	17.5°	21.2	22.6	23.1	22.2	22.2	23.1	26.3	32.3	40.1	45.7
13.8	20°	17.5	19.8	21.2	19.8	19.8	20.8	24.0	30.5	40.6	48.9
10.2	22.5°	13.8	16.2	18.0	17.5	17.5	18.0	22.2	29.1	41.1	54.5
6.0	25°	10.2	12.5	13.8	14.8	14.8	16.2	20.3	28.1	42.9	66.0
2.8	27.5°	6.0	8.8	10.6	11.5	12.0	13.8	18.9	27.2	46.1	82.6
0.0	30°	2.8	5.1	7.4	9.2	9.2	12.5	17.5	26.3	50.3	106.6
0.0	32.5°	0.0	2.3	3.7	6.5	6.9	10.2	16.2	25.4	56.3	129.7
0.0	35°	0.0	0.0	1.8	5.1	5.1	8.3	14.8	24.5	65.5	147.2
0.0	37.5°	0.0	0.0	0.0	3.7	4.2	7.4	14.3	24.0	67.4	148.6
0.0	40°	0.0	0.0	0.0	2.8	3.2	6.9	14.3	24.5	60.9	145.4
0.0	42.5°	0.0	0.0	0.0	1.8	2.3	6.9	14.3	25.4	54.9	149.1
0.0	45°	0.0	0.0	0.0	1.4	1.8	7.4	13.8	24.9	51.7	168.4
0.0	47.5°	0.0	0.0	0.0	1.8	2.8	7.4	13.4	24.5	52.1	232.6
0.0	50°	0.0	0.0	0.0	2.3	3.2	7.4	13.8	23.5	57.2	357.6
0.0	52.5°	0.0	0.0	0.0	1.8	2.8	8.3	15.2	23.1	62.3	465.2
0.0	55°	0.0	0.0	0.0	0.5	1.4	10.6	16.6	23.1	70.1	491.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	12.0	18.9	24.5	83.1	481.3
0.0	58°	0.0	0.0	0.0	0.0	0.0	12.0	19.4	24.5	84.0	472.1
0.0	60°	0.0	0.0	0.0	0.0	0.0	12.0	21.2	27.2	90.4	420.4
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	10.2	25.4	34.1	94.1	330.4
0.0	65°	0.0	0.0	0.0	0.0	0.0	8.3	30.0	37.4	96.9	263.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	7.8	30.9	37.8	98.3	209.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	8.3	30.5	40.6	102.9	170.3
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	9.2	27.7	44.8	102.9	150.9
0.0	75°	0.0	0.0	0.0	0.0	0.0	9.7	25.8	50.3	93.7	130.6
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	9.2	25.4	58.6	83.5	107.5
0.0	80°	0.9	1.4	1.4	0.9	0.9	7.8	24.9	59.5	71.1	73.8
0.5	82.5°	2.8	3.7	3.2	2.3	2.3	6.9	22.2	49.8	36.9	31.8
2.8	85°	5.1	6.0	6.0	5.1	5.1	6.5	13.8	18.0	12.5	10.2
5.1	87.5°	6.9	7.8	7.8	6.9	6.9	6.5	6.0	5.5	5.1	5.1
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: SP1-2407-184-15

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-935-U-5WQ

Data in this report applies to families of products including GSS-SB1A-935-U-5WQ

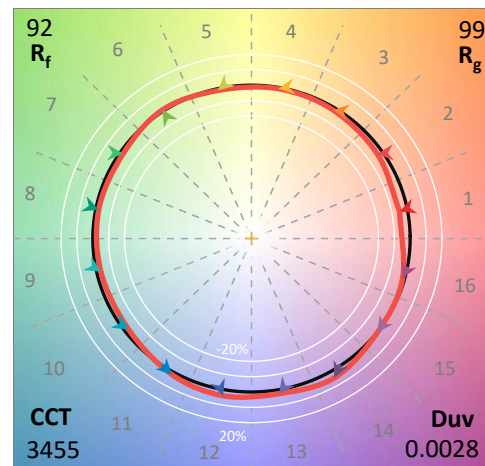
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-15
 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-935-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 3500K CCT 26 LEDS

Spectral Parameters

CCT (K): 3455
 CIE u' : 0.2356
 CIE v' : 0.5159
 Duv: 0.0028
 CIE x: 0.4109
 CIE y: 0.3999
 CIE z: 0.1892
 Peak Wavelength (nm): 616
 Dominant Wavelength (nm): 579
 Purity: 43.35383
 R_f: 92.3
 R_g: 98.5

CRI (Ra): 92.2
 R1: 92.0
 R2: 94.4
 R3: 95.6
 R4: 93.2
 R5: 91.4
 R6: 92.5
 R7: 94.5
 R8: 84.2
 R9: 59.8
 R10: 85.8
 R11: 93.2
 R12: 78.0
 R13: 92.5
 R14: 97.0
 R15: 88.4



Test Conditions

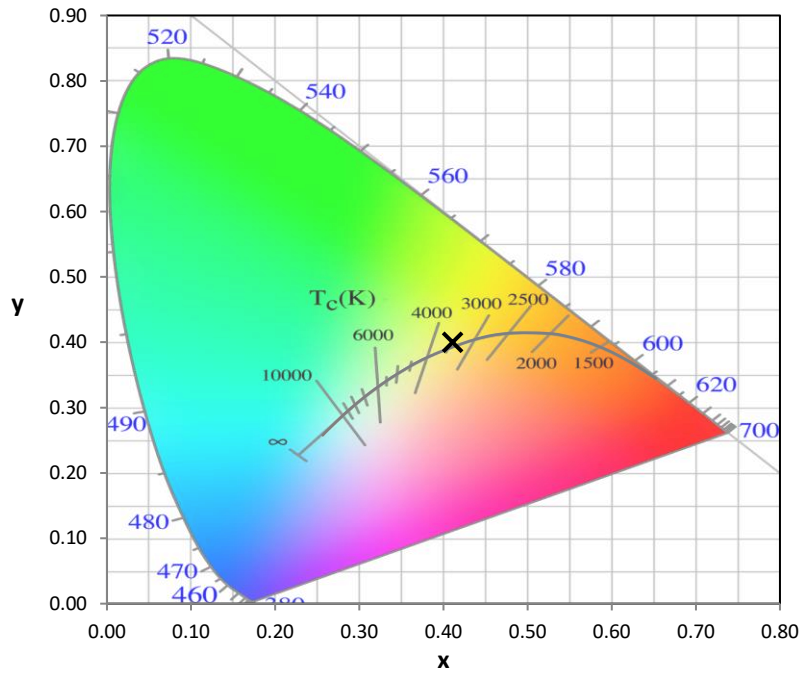
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-15

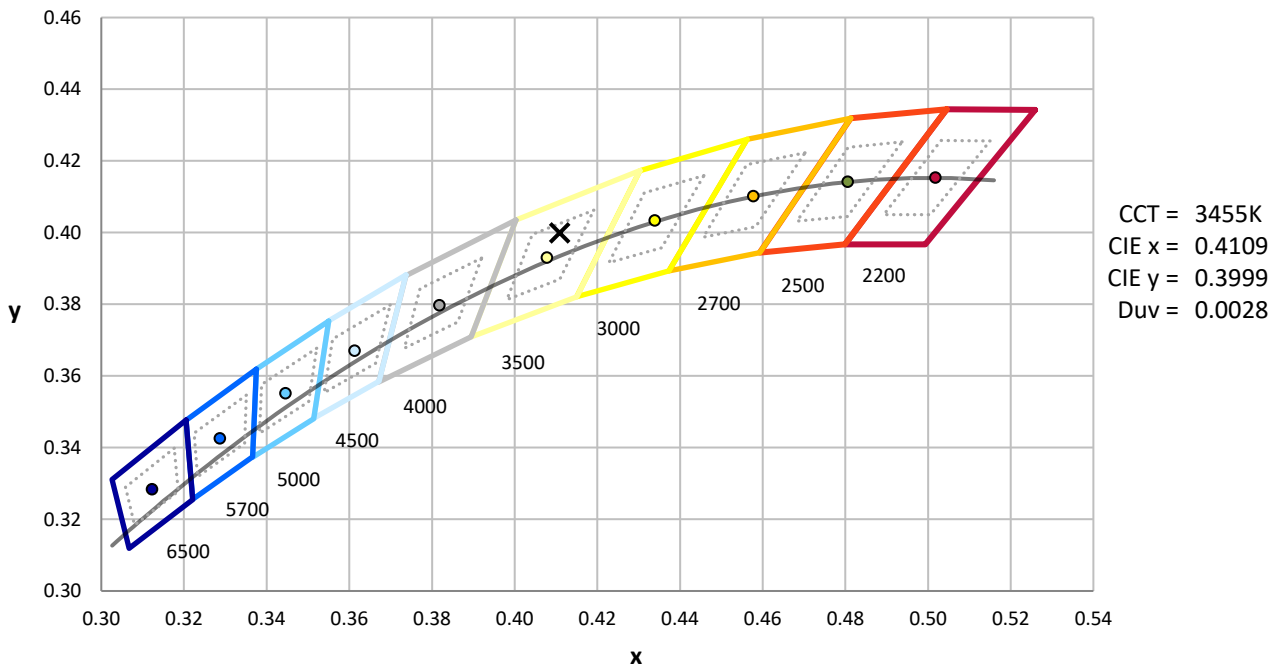
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-15

CIE 1931 Chromaticity Diagram



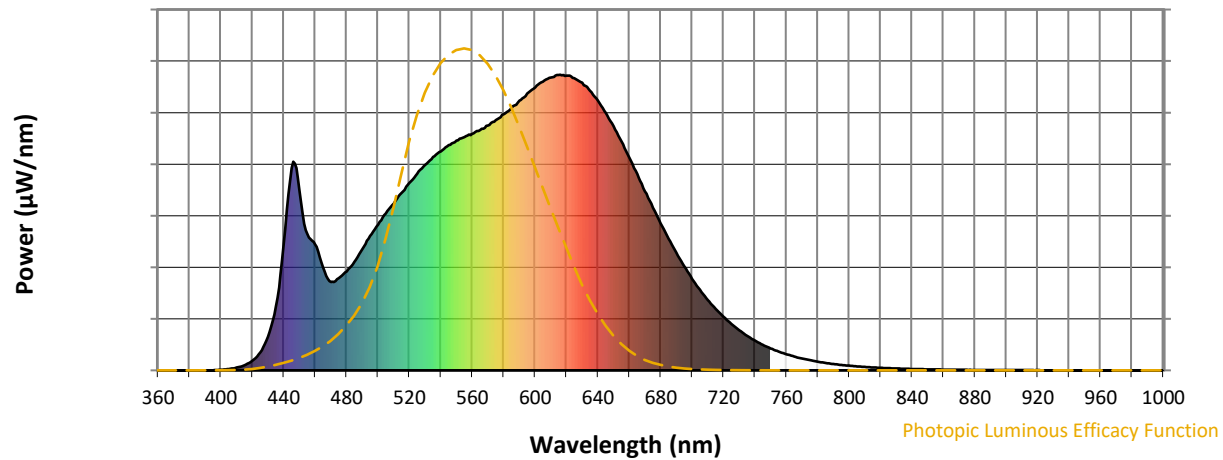
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-15

Photopic Flux vs. Wavelength

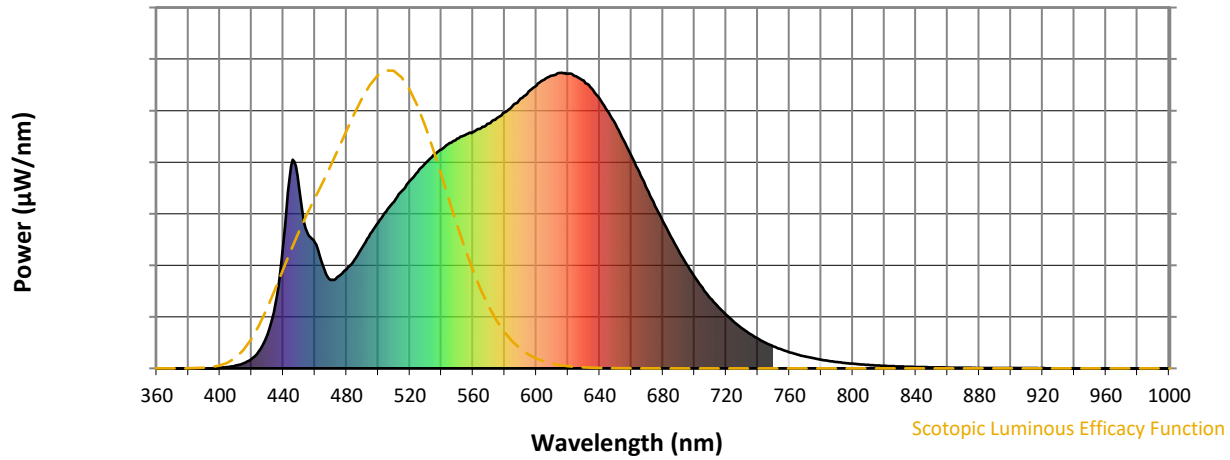


Photopic Lumens: NR

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

Scotopic Flux vs. Wavelength



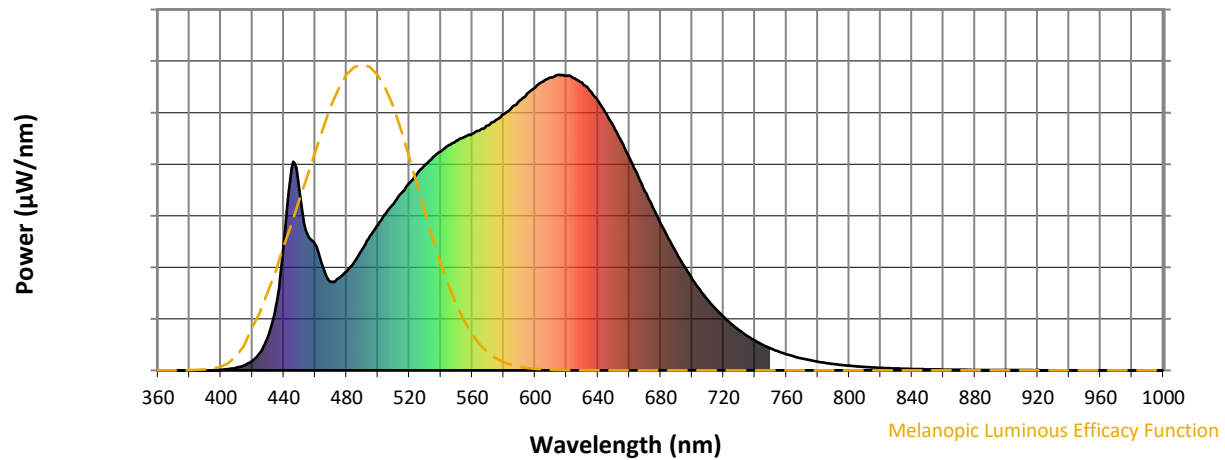
Scotopic Lumens: NR

S/P: 1.58

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	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.14

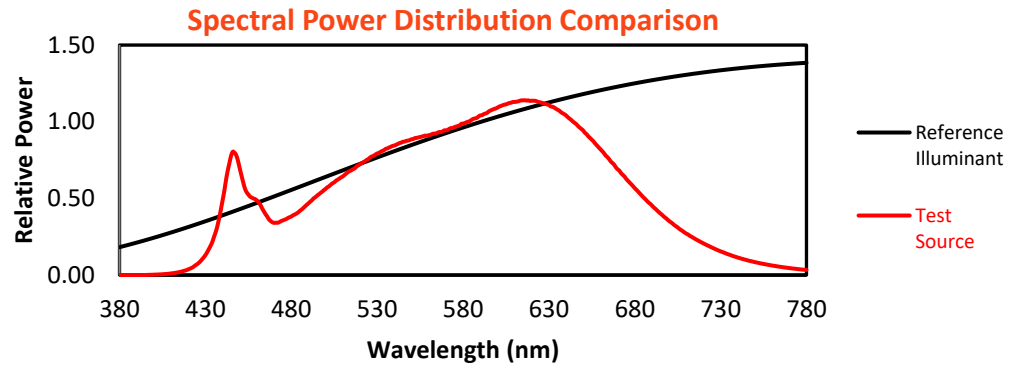
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	410	NR	620	997	NR	750	74	NR	880	1	NR
365	0	NR	495	454	NR	625	988	NR	755	64	NR	885	1	NR
370	0	NR	500	493	NR	630	973	NR	760	54	NR	890	1	NR
375	0	NR	505	530	NR	635	946	NR	765	47	NR	895	1	NR
380	0	NR	510	564	NR	640	913	NR	770	40	NR	900	1	NR
385	0	NR	515	599	NR	645	870	NR	775	34	NR	905	1	NR
390	0	NR	520	634	NR	650	826	NR	780	29	NR	910	1	NR
395	0	NR	525	664	NR	655	774	NR	785	25	NR	915	1	NR
400	2	NR	530	695	NR	660	720	NR	790	21	NR	920	1	NR
405	4	NR	535	722	NR	665	664	NR	795	18	NR	925	1	NR
410	9	NR	540	741	NR	670	605	NR	800	16	NR	930	0	NR
415	17	NR	545	762	NR	675	550	NR	805	13	NR	935	0	NR
420	32	NR	550	777	NR	680	497	NR	810	12	NR	940	0	NR
425	61	NR	555	789	NR	685	445	NR	815	10	NR	945	0	NR
430	114	NR	560	800	NR	690	398	NR	820	9	NR	950	0	NR
435	218	NR	565	813	NR	695	352	NR	825	7	NR	955	0	NR
440	427	NR	570	828	NR	700	309	NR	830	6	NR	960	0	NR
445	684	NR	575	846	NR	705	273	NR	835	5	NR	965	0	NR
450	611	NR	580	866	NR	710	237	NR	840	5	NR	970	0	NR
455	461	NR	585	888	NR	715	208	NR	845	4	NR	975	0	NR
460	427	NR	590	913	NR	720	181	NR	850	4	NR	980	0	NR
465	349	NR	595	936	NR	725	157	NR	855	3	NR	985	0	NR
470	298	NR	600	957	NR	730	136	NR	860	3	NR	990	1	NR
475	312	NR	605	976	NR	735	117	NR	865	2	NR	995	0	NR
480	335	NR	610	990	NR	740	100	NR	870	2	NR	1000	0	NR
485	367	NR	615	999	NR	745	86	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-15

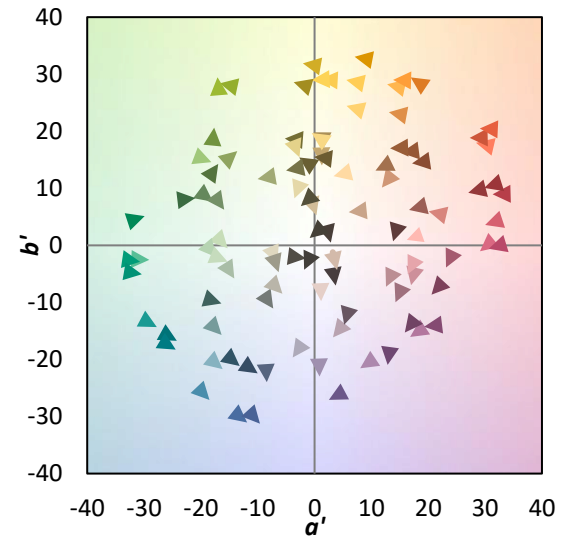
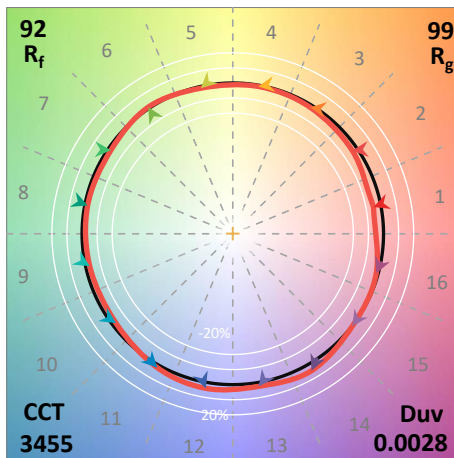
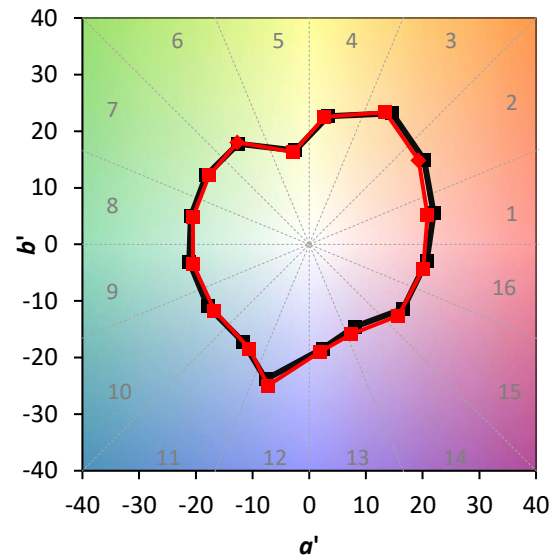
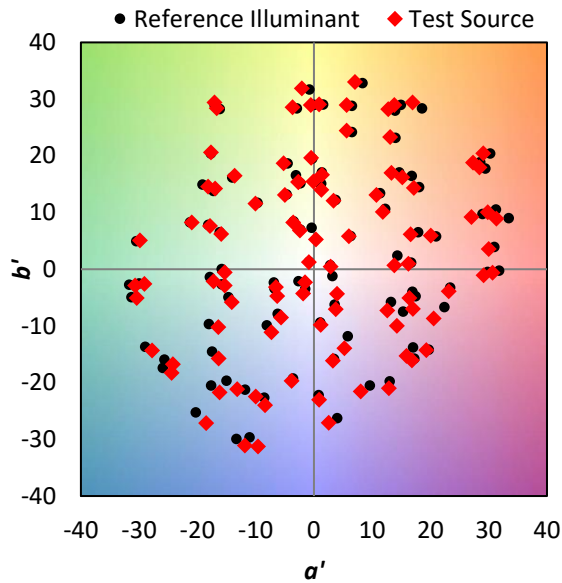
TM-30-18

Summary

$R_f = 92.3$
 $R_g = 98.5$
 $CIE R_a = 92.2$
 $R_9 = 59.8$

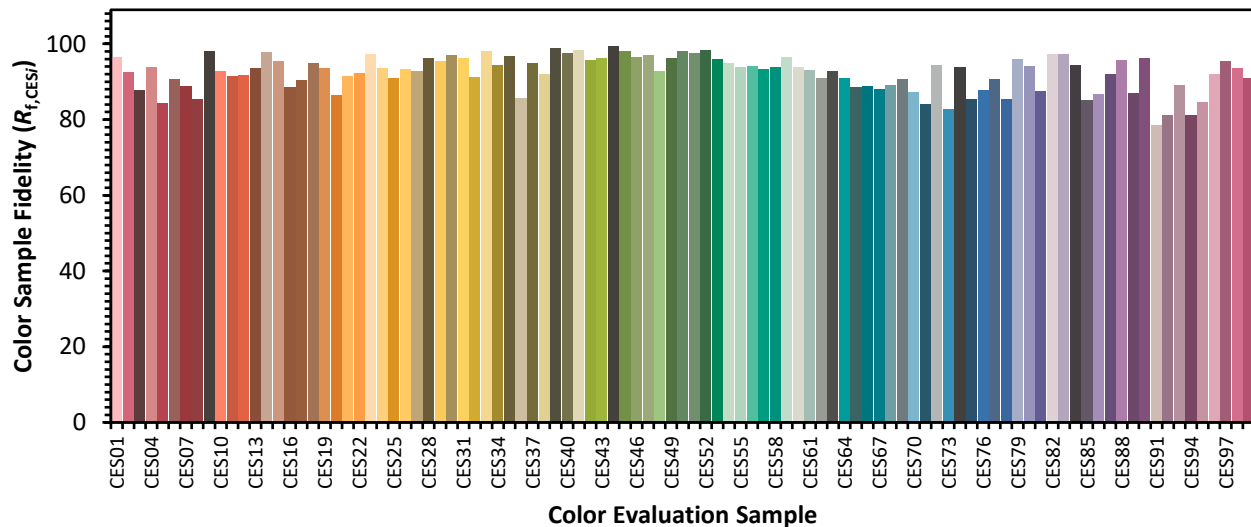


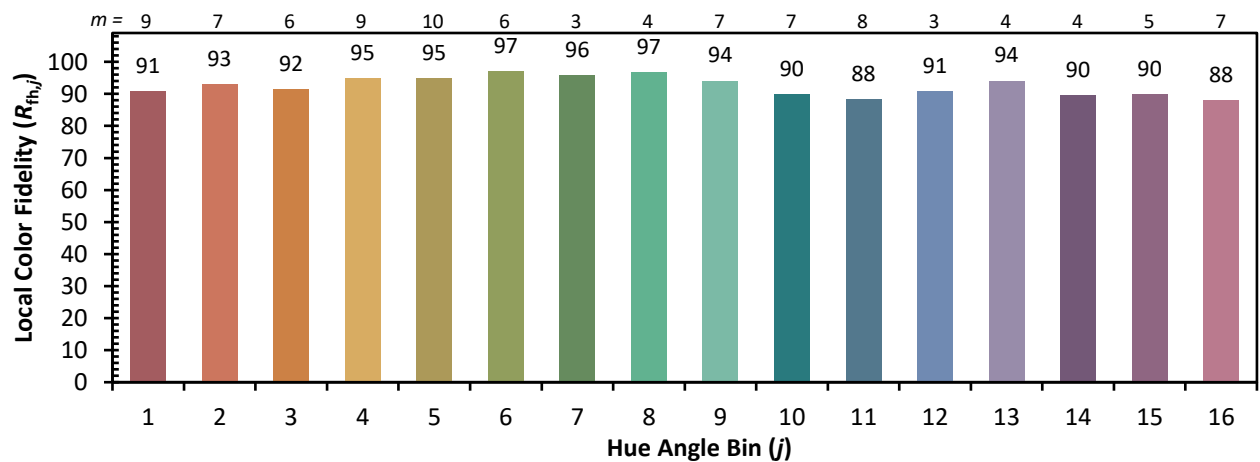
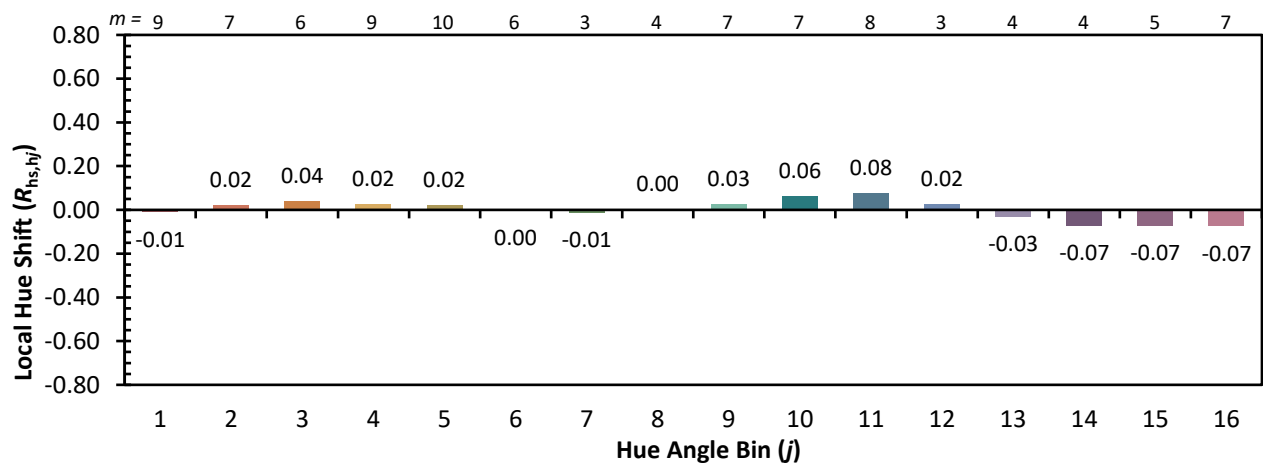
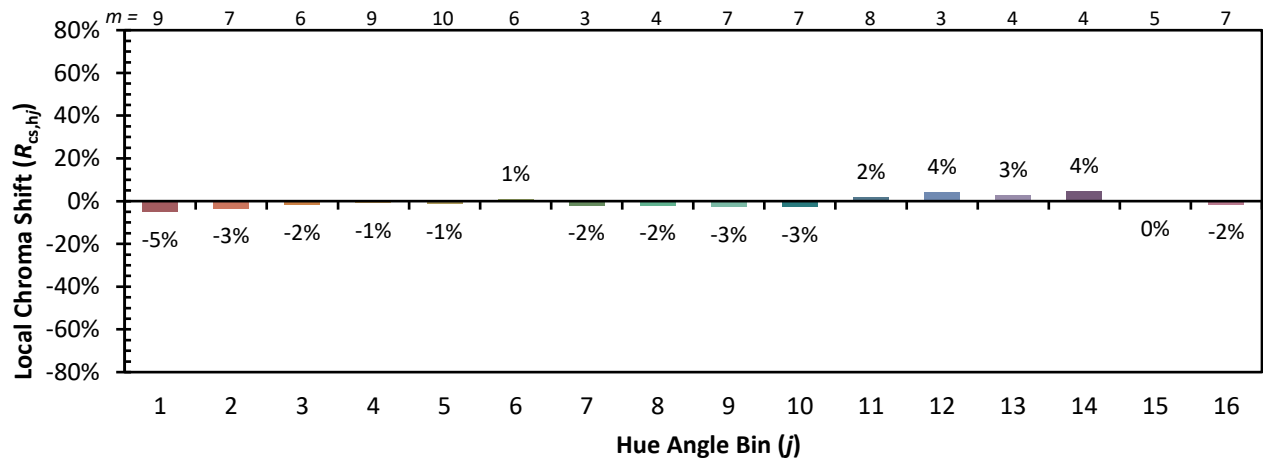
Color Vector Graphics



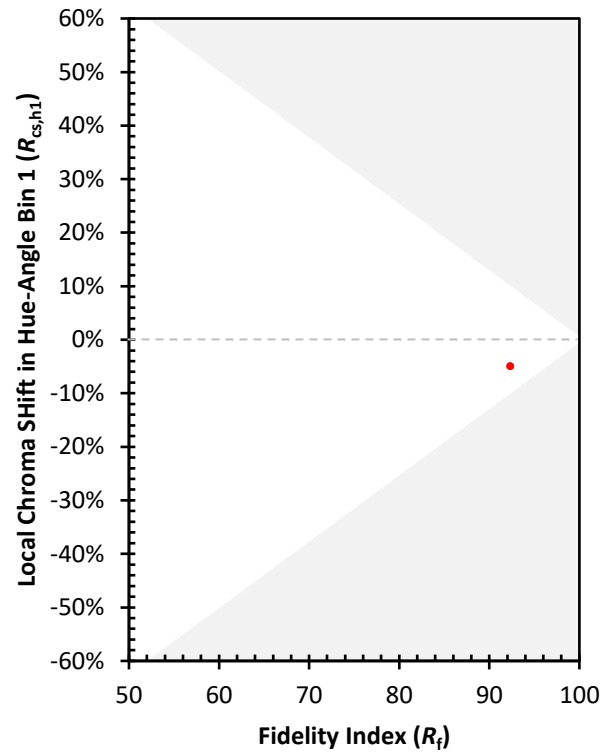
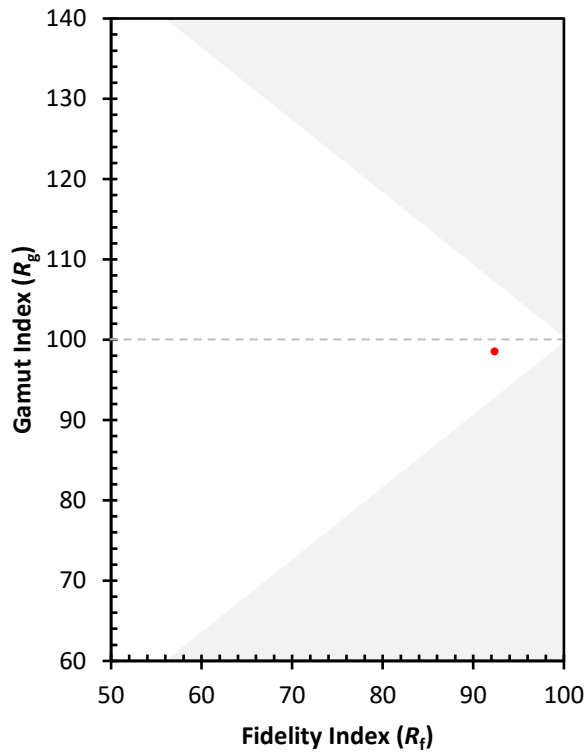
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 93	CES51 = 97	CES76 = 88
CES02 = 62	CES27 = 93	CES52 = 98	CES77 = 91
CES03 = 31	CES28 = 96	CES53 = 96	CES78 = 85
CES04 = 70	CES29 = 95	CES54 = 95	CES79 = 96
CES05 = 50	CES30 = 97	CES55 = 94	CES80 = 94
CES06 = 51	CES31 = 96	CES56 = 94	CES81 = 87
CES07 = 42	CES32 = 91	CES57 = 93	CES82 = 97
CES08 = 41	CES33 = 98	CES58 = 94	CES83 = 97
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 75	CES35 = 97	CES60 = 94	CES85 = 85
CES11 = 58	CES36 = 86	CES61 = 93	CES86 = 87
CES12 = 64	CES37 = 95	CES62 = 91	CES87 = 92
CES13 = 43	CES38 = 92	CES63 = 93	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 89	CES90 = 96
CES16 = 47	CES41 = 98	CES66 = 89	CES91 = 78
CES17 = 49	CES42 = 96	CES67 = 88	CES92 = 81
CES18 = 56	CES43 = 96	CES68 = 89	CES93 = 89
CES19 = 71	CES44 = 99	CES69 = 91	CES94 = 81
CES20 = 66	CES45 = 98	CES70 = 87	CES95 = 85
CES21 = 86	CES46 = 97	CES71 = 84	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 95	CES97 = 95
CES23 = 91	CES48 = 93	CES73 = 83	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 94	CES99 = 91
CES25 = 71	CES50 = 98	CES75 = 85	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)