

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: P1050009

Luminaire Tested: **GALN-SA3A-940-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1050009
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-940-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 3xLight Square PACKAGE
90CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7321.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

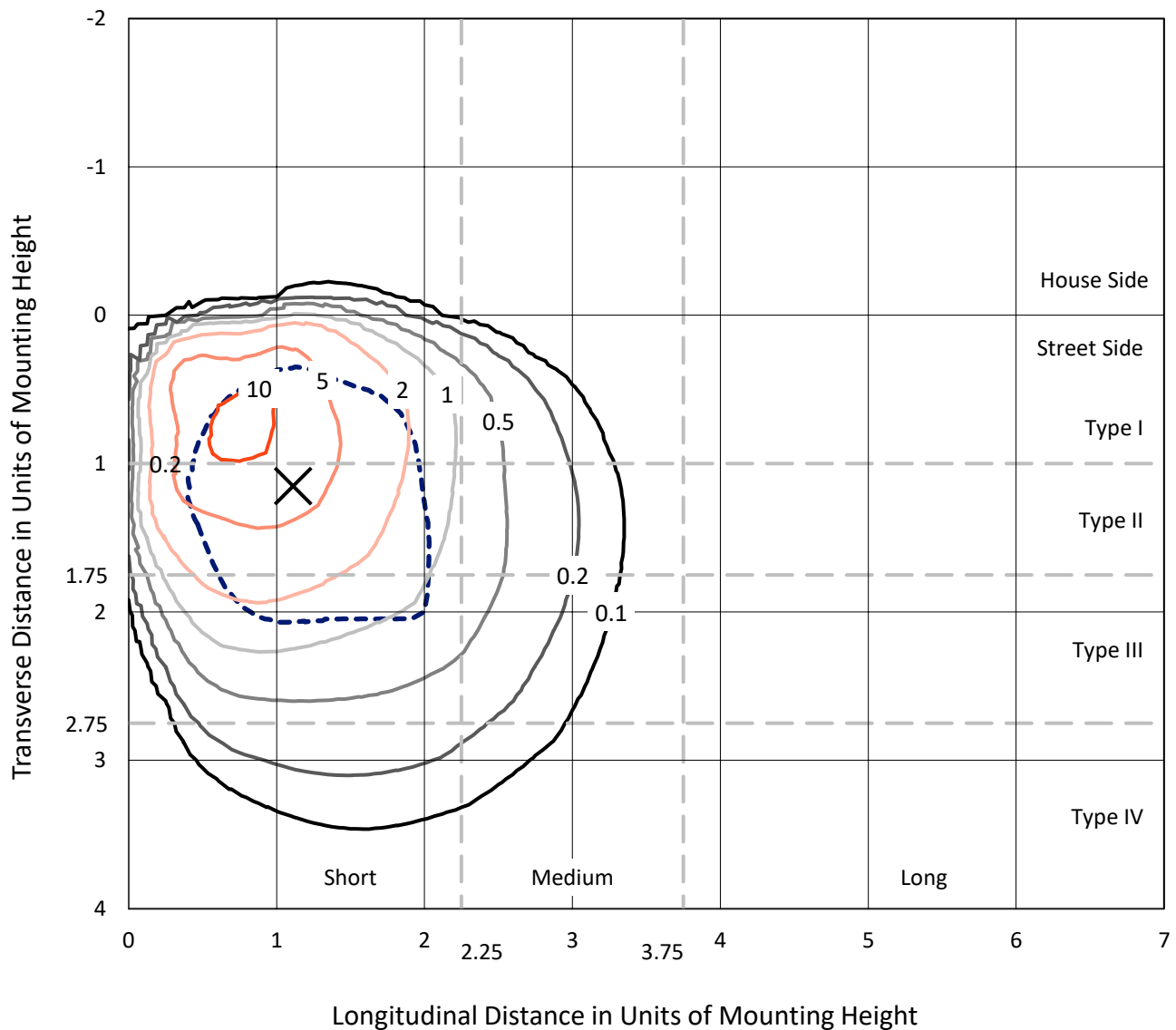
Input Watts (W): 81.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

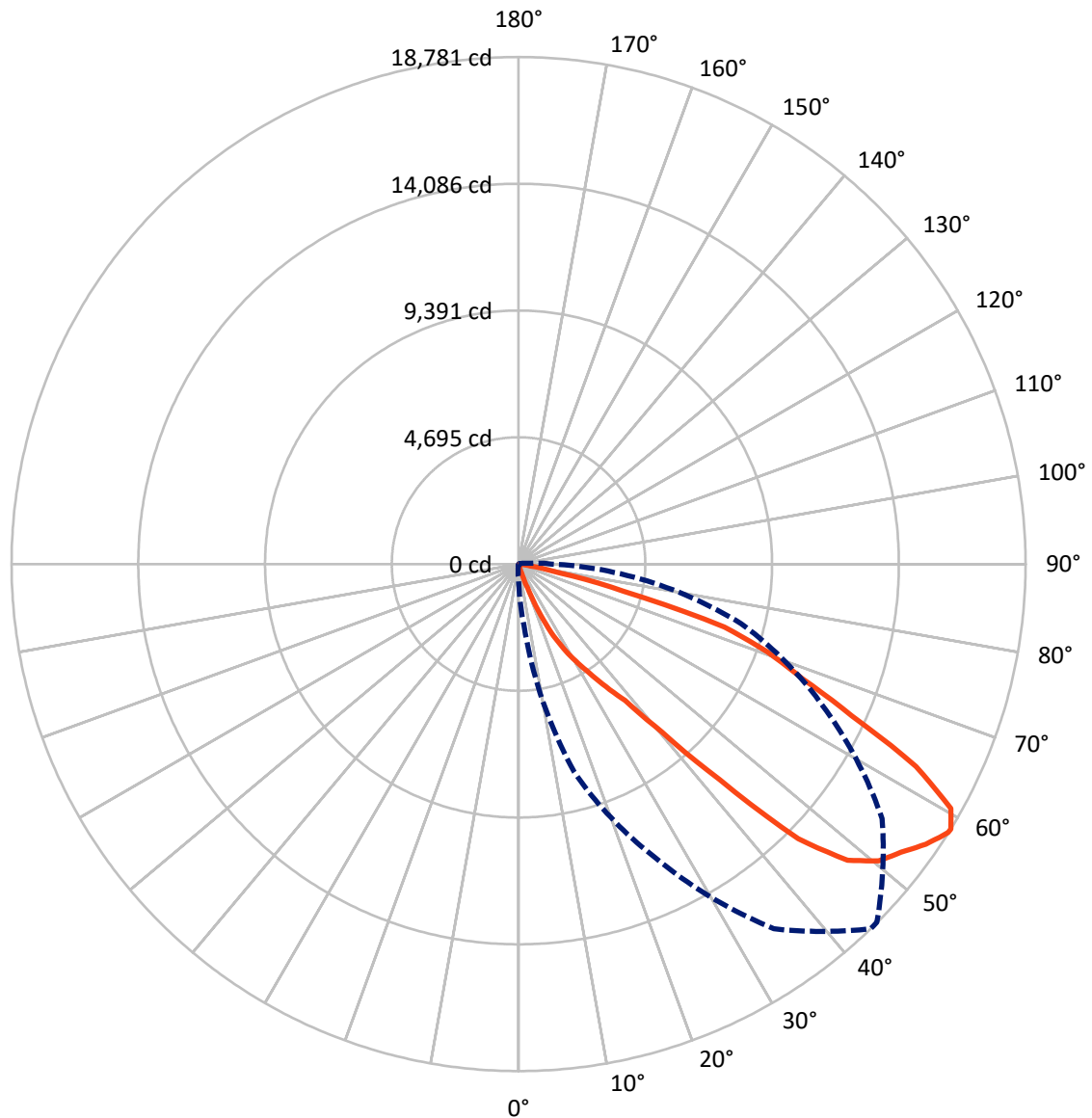
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 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	50.0	0.0	50.0
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	7271.1	0.0	7271.1
	% Fixture	99.3	0.0	99.3
Total	Lumens	7321.1	0.0	7321.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.0
10°-20°	16.1	0.2
20°-30°	173.4	2.4
30°-40°	512.9	7.0
40°-50°	1528.8	20.9
50°-60°	2425.8	33.1
60°-70°	2023.4	27.6
70°-80°	624.0	8.5
80°-90°	13.9	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°	7321.1	100.0
0°-180°	7321.1	100.0



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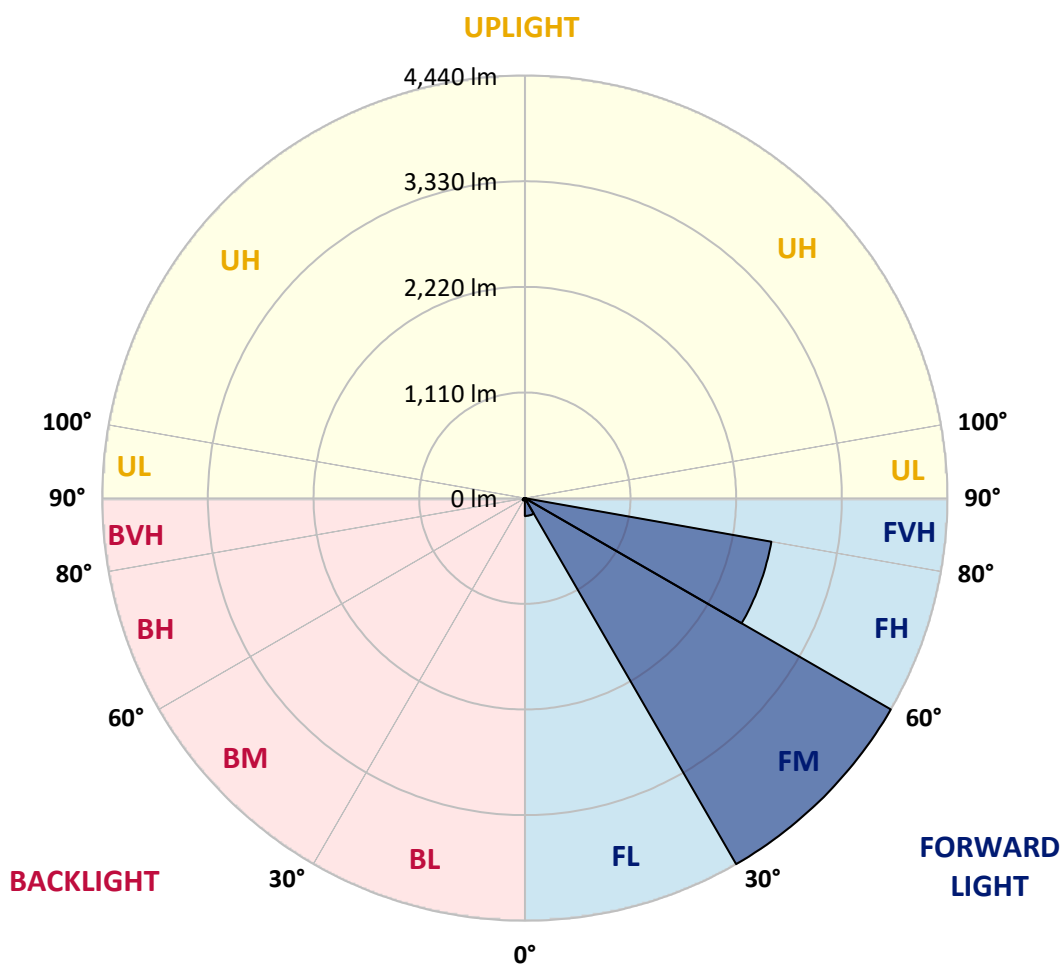
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.5	2.6			
FM	(30°-60°)	4440.1	60.6			
FH	(60°-80°)	2630.4	35.9			G2/5000
FVH	(80°-90°)	13.2	0.2			G1/100
BL	(0°-30°)	4.9	0.1	B0/110		
BM	(30°-60°)	27.4	0.4	B0/220		
BH	(60°-80°)	17.1	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°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2.5°	41.5	41.5	39.8	37.6	35.4	33.2	32.6	31.5	31.0	30.4
5°	43.1	43.1	42.6	40.9	38.7	37.1	37.1	35.4	34.3	33.2
7.5°	44.2	44.8	45.9	45.3	44.2	42.6	42.6	41.5	39.8	37.1
10°	45.9	47.6	49.8	50.9	51.4	51.4	50.9	50.3	47.6	43.7
12.5°	47.6	50.9	56.4	61.9	65.3	69.7	69.1	68.0	60.8	52.5
15°	50.9	55.9	67.5	83.5	108.4	123.9	130.0	124.4	100.7	70.8
17.5°	54.8	63.0	97.9	174.8	286.5	339.6	371.6	345.7	229.0	134.4
20°	58.6	76.9	182.0	452.9	743.3	916.9	965.1	889.8	571.3	256.1
22.5°	65.3	107.8	368.9	936.3	1601.6	1862.1	1911.3	1670.7	1079.0	505.5
25°	79.1	156.5	636.0	1525.8	2390.3	2829.9	2809.5	2494.2	1750.4	807.4
27.5°	99.0	227.9	961.7	2167.9	3145.7	3533.4	3579.9	3190.0	2333.3	1187.4
30°	127.8	315.8	1311.3	2682.3	3751.3	4170.5	4178.3	3775.1	2854.8	1520.9
32.5°	155.4	398.7	1617.1	3179.5	4348.0	4807.6	4841.9	4345.8	3244.2	1868.2
35°	176.4	452.9	1926.8	3616.4	4949.7	5583.0	5580.8	4991.8	3705.4	2178.4
37.5°	178.1	507.1	2207.2	4063.2	5711.8	6420.8	6491.1	5841.8	4262.9	2562.3
40°	174.2	568.0	2562.3	4760.1	7085.1	8172.9	8234.8	7416.3	5381.1	3219.3
42.5°	178.6	673.6	3138.5	6047.0	9365.3	10927.6	11047.1	10186.5	7436.8	4559.9
45°	201.9	872.2	4345.8	8200.0	12615.5	14520.2	14480.4	13241.0	9828.7	6600.6
47.5°	278.7	1358.3	6135.5	10295.5	14692.7	16388.9	16423.2	14908.4	11224.6	8169.6
50°	428.6	2078.3	7639.2	11403.2	15585.9	17287.6	17255.5	15505.2	11755.0	8942.2
52.5°	557.5	2599.3	8393.6	11792.0	15700.4	17731.7	17729.5	15662.2	11837.4	9008.5
55°	589.5	2638.6	8399.6	11813.0	15957.0	18313.0	18386.0	16048.8	11944.1	8718.7
57.5°	576.8	2336.1	8049.0	11934.7	16413.8	18762.6	18766.5	16423.2	12215.1	8541.2
58°	565.8	2288.5	7978.2	12003.8	16492.3	18781.4	18772.0	16440.4	12435.8	8534.6
60°	503.8	1987.1	7702.3	12180.3	16375.6	18395.4	18307.4	16065.9	12403.1	8466.6
62.5°	396.0	1550.2	7430.7	11976.2	15124.7	16526.6	16563.1	14223.8	11307.0	8070.0
65°	315.2	1155.3	6864.4	10505.1	12454.6	13571.7	13707.8	11566.4	9437.7	6833.4
67.5°	251.1	835.1	5758.3	8363.7	9855.3	11326.9	11425.9	9710.9	7311.8	5235.7
70°	204.1	564.7	3974.7	6116.7	8128.6	9783.4	9789.4	8067.3	5457.4	3430.5
72.5°	180.8	391.0	2307.3	4460.9	6591.2	7972.1	7811.2	6546.4	4194.3	2031.9
75°	156.5	259.4	1131.5	2727.1	3996.3	4023.4	4084.8	3036.8	2096.6	966.2
77.5°	128.9	184.2	445.8	745.0	1198.4	1534.1	1591.1	1205.6	697.4	237.8
80°	88.5	87.4	120.0	228.4	342.9	429.7	401.0	310.3	182.5	91.3
82.5°	38.2	41.5	54.2	65.3	53.1	51.4	49.2	31.5	24.3	18.8
85°	12.2	11.1	11.6	11.6	9.4	7.2	7.2	3.3	0.0	0.0
87.5°	6.1	5.0	5.0	4.4	2.8	1.1	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°
32.1	0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
29.9	2.5°	29.3	29.3	28.2	27.1	26.5	25.4	24.9	24.3	23.8	23.2
32.1	5°	31.0	30.4	28.8	27.1	25.4	23.8	22.7	21.6	20.5	19.9
35.4	7.5°	33.7	32.6	29.3	26.5	24.3	22.1	21.0	19.4	18.3	16.6
39.3	10°	37.1	34.8	30.4	27.1	23.8	21.0	19.4	17.7	16.0	13.8
44.8	12.5°	41.5	37.6	32.1	26.5	22.7	19.4	17.7	15.5	13.8	12.2
52.0	15°	45.3	40.4	32.6	26.5	21.6	17.7	15.5	13.3	11.6	9.4
65.3	17.5°	50.9	42.6	32.1	24.9	19.9	15.5	13.3	11.6	8.8	5.5
96.8	20°	60.3	44.2	31.0	23.2	17.1	12.7	10.0	7.7	3.9	1.1
145.5	22.5°	75.2	48.7	29.9	21.0	14.9	10.0	6.6	2.8	0.0	0.0
221.2	25°	104.0	56.4	29.9	19.9	13.3	7.2	2.2	0.0	0.0	0.0
314.1	27.5°	138.3	66.9	29.9	17.1	10.5	3.9	0.0	0.0	0.0	0.0
428.1	30°	173.1	78.5	29.9	14.9	8.3	0.6	0.0	0.0	0.0	0.0
527.1	32.5°	206.3	88.5	30.4	12.7	5.5	0.0	0.0	0.0	0.0	0.0
664.2	35°	240.0	90.1	29.9	11.1	3.3	0.0	0.0	0.0	0.0	0.0
832.3	37.5°	283.2	86.8	28.2	10.0	1.7	0.0	0.0	0.0	0.0	0.0
1095.0	40°	348.4	88.5	26.5	9.4	0.6	0.0	0.0	0.0	0.0	0.0
1563.5	42.5°	469.0	95.7	24.3	9.4	0.0	0.0	0.0	0.0	0.0	0.0
2490.4	45°	810.8	128.3	22.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0
3738.6	47.5°	1341.1	230.6	21.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0
4503.4	50°	1711.7	290.3	22.7	10.5	0.0	0.0	0.0	0.0	0.0	0.0
4599.1	52.5°	1708.9	323.5	23.8	11.1	2.2	0.0	0.0	0.0	0.0	0.0
4239.1	55°	1519.2	329.6	25.4	12.2	7.2	0.0	0.0	0.0	0.0	0.0
3642.9	57.5°	1269.8	300.9	29.3	14.9	13.3	0.0	0.0	0.0	0.0	0.0
3549.4	58°	1225.5	287.6	30.4	15.5	14.4	0.0	0.0	0.0	0.0	0.0
3078.8	60°	1004.3	234.5	38.7	19.4	19.4	0.0	0.0	0.0	0.0	0.0
2524.1	62.5°	693.5	204.6	44.2	24.9	19.9	0.0	0.0	0.0	0.0	0.0
1861.0	65°	490.6	184.7	48.1	26.5	16.0	0.0	0.0	0.0	0.0	0.0
1322.3	67.5°	366.7	170.3	53.1	27.1	8.3	0.0	0.0	0.0	0.0	0.0
829.6	70°	280.9	159.8	65.3	28.8	2.2	0.0	0.0	0.0	0.0	0.0
494.4	72.5°	229.0	147.7	79.1	29.9	0.0	0.0	0.0	0.0	0.0	0.0
296.4	75°	189.7	133.3	76.3	32.6	0.0	0.0	0.0	0.0	0.0	0.0
158.2	77.5°	126.1	103.4	69.7	32.6	0.0	0.0	0.0	0.0	0.0	0.0
56.4	80°	44.2	40.9	54.2	28.8	0.0	0.0	0.0	0.0	0.0	0.0
11.6	82.5°	6.6	5.5	7.7	10.0	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°
32.1	0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
22.7	2.5°	22.7	22.7	22.1	22.7	22.7	23.8	26.5	30.4	34.8	36.5
19.4	5°	18.8	18.3	17.7	17.7	17.7	19.4	21.6	26.0	31.0	33.2
16.0	7.5°	15.5	14.9	14.4	13.8	13.8	14.9	17.7	22.7	27.7	29.9
13.3	10°	12.7	11.6	11.1	10.5	10.5	11.6	14.4	19.4	24.9	27.1
11.1	12.5°	10.5	8.8	7.7	7.2	6.6	8.3	11.1	15.5	21.6	24.3
8.3	15°	7.2	5.5	3.9	3.3	2.8	4.4	7.2	12.2	18.3	21.6
4.4	17.5°	3.9	1.7	0.6	0.0	0.0	1.1	3.3	8.8	14.9	17.7
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.1	13.8
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.6	9.4
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.0
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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	1.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
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°
32.1	0°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
38.2	2.5°	39.3	38.7	37.6	36.5	36.5	36.5	38.2	39.8	41.5	41.5
34.3	5°	36.5	36.5	35.9	34.8	34.8	35.4	37.6	40.4	42.6	43.1
31.5	7.5°	33.7	34.8	33.7	33.2	33.7	34.3	36.5	39.8	43.1	44.2
29.3	10°	32.1	32.6	32.6	32.1	32.1	33.2	35.4	39.8	44.2	45.9
26.5	12.5°	29.9	31.0	30.4	30.4	30.4	31.5	34.3	39.3	45.3	47.6
23.8	15°	27.7	29.3	29.3	28.8	28.8	29.3	33.2	38.7	47.0	50.9
20.5	17.5°	25.4	27.1	27.7	26.5	26.5	27.7	31.5	38.7	48.1	54.8
16.6	20°	21.0	23.8	25.4	23.8	23.8	24.9	28.8	36.5	48.7	58.6
12.2	22.5°	16.6	19.4	21.6	21.0	21.0	21.6	26.5	34.8	49.2	65.3
7.2	25°	12.2	14.9	16.6	17.7	17.7	19.4	24.3	33.7	51.4	79.1
3.3	27.5°	7.2	10.5	12.7	13.8	14.4	16.6	22.7	32.6	55.3	99.0
0.0	30°	3.3	6.1	8.8	11.1	11.1	14.9	21.0	31.5	60.3	127.8
0.0	32.5°	0.0	2.8	4.4	7.7	8.3	12.2	19.4	30.4	67.5	155.4
0.0	35°	0.0	0.0	2.2	6.1	6.1	10.0	17.7	29.3	78.5	176.4
0.0	37.5°	0.0	0.0	0.0	4.4	5.0	8.8	17.1	28.8	80.7	178.1
0.0	40°	0.0	0.0	0.0	3.3	3.9	8.3	17.1	29.3	73.0	174.2
0.0	42.5°	0.0	0.0	0.0	2.2	2.8	8.3	17.1	30.4	65.8	178.6
0.0	45°	0.0	0.0	0.0	1.7	2.2	8.8	16.6	29.9	61.9	201.9
0.0	47.5°	0.0	0.0	0.0	2.2	3.3	8.8	16.0	29.3	62.5	278.7
0.0	50°	0.0	0.0	0.0	2.8	3.9	8.8	16.6	28.2	68.6	428.6
0.0	52.5°	0.0	0.0	0.0	2.2	3.3	10.0	18.3	27.7	74.7	557.5
0.0	55°	0.0	0.0	0.0	0.6	1.7	12.7	19.9	27.7	84.1	589.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	14.4	22.7	29.3	99.5	576.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	14.4	23.2	29.3	100.7	565.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	14.4	25.4	32.6	108.4	503.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	12.2	30.4	40.9	112.8	396.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	10.0	35.9	44.8	116.1	315.2
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	9.4	37.1	45.3	117.8	251.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	10.0	36.5	48.7	123.3	204.1
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	11.1	33.2	53.6	123.3	180.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	11.6	31.0	60.3	112.3	156.5
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	11.1	30.4	70.2	100.1	128.9
0.0	80°	1.1	1.7	1.7	1.1	1.1	9.4	29.9	71.3	85.2	88.5
0.6	82.5°	3.3	4.4	3.9	2.8	2.8	8.3	26.5	59.7	44.2	38.2
3.3	85°	6.1	7.2	7.2	6.1	6.1	7.7	16.6	21.6	14.9	12.2
6.1	87.5°	8.3	9.4	9.4	8.3	8.3	7.7	7.2	6.6	6.1	6.1
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: SP1-2407-184-16

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-940-U-5WQ

Data in this report applies to families of products including GSS-SB1A-940-U-5WQ

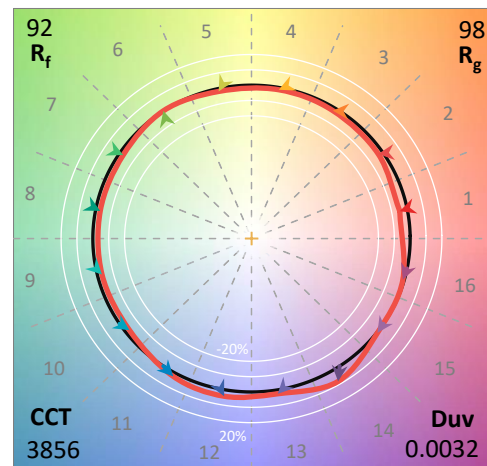
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-16
 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-940-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3856
 CIE u' : 0.2261
 CIE v' : 0.5084
 Duv: 0.0032
 CIE x: 0.3896
 CIE y: 0.3894
 CIE z: 0.2211
 Peak Wavelength (nm): 614
 Dominant Wavelength (nm): 578
 Purity: 33.77304
 R_f: 91.8
 R_g: 98.4

CRI (Ra): 92.1
 R1: 91.8
 R2: 94.1
 R3: 95.3
 R4: 92.8
 R5: 91.0
 R6: 91.6
 R7: 95.0
 R8: 85.2
 R9: 60.7
 R10: 85.2
 R11: 92.4
 R12: 74.5
 R13: 92.3
 R14: 97.0
 R15: 88.5



Test Conditions

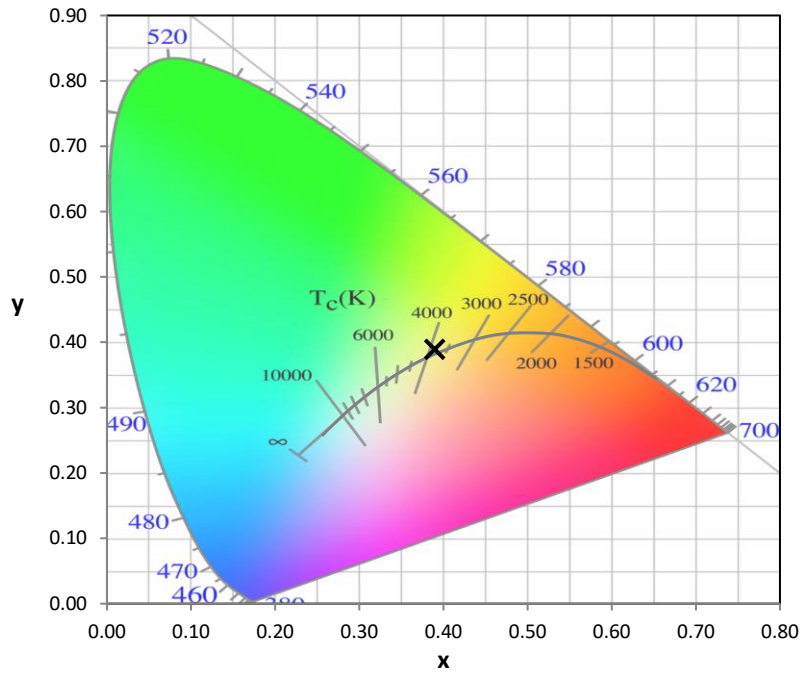
Stabilization Time: 23M
 Operation Time: 1H 23M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-16

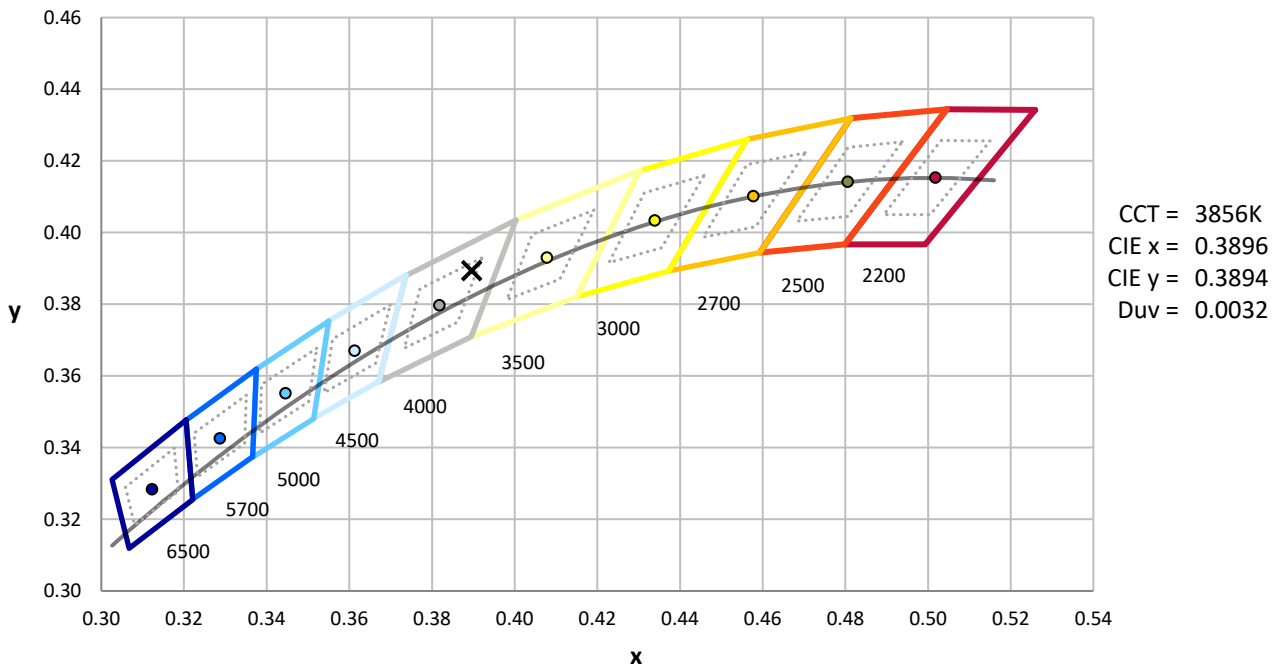
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-16

CIE 1931 Chromaticity Diagram



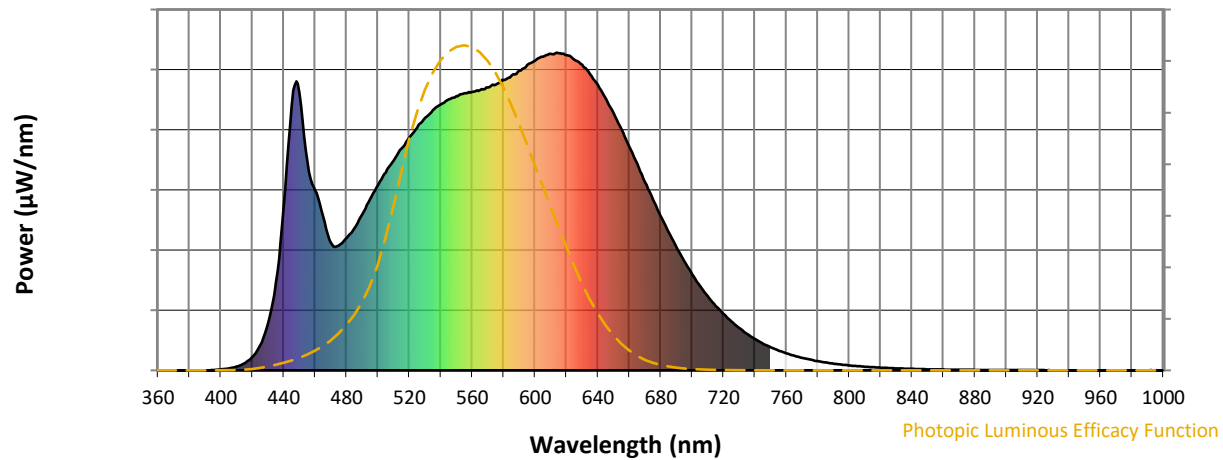
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-16

Photopic Flux vs. Wavelength

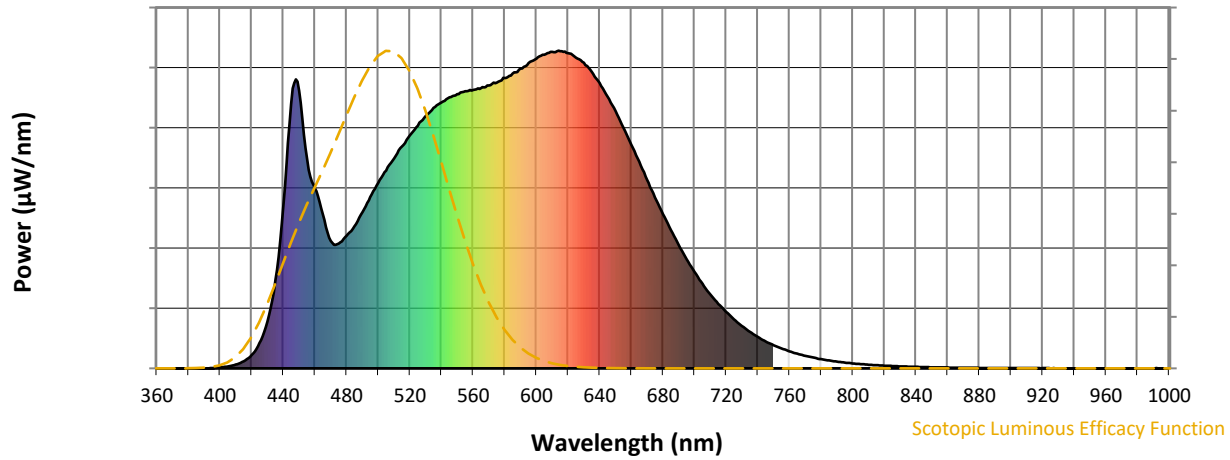


Photopic Lumens: NR

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

Scotopic Flux vs. Wavelength



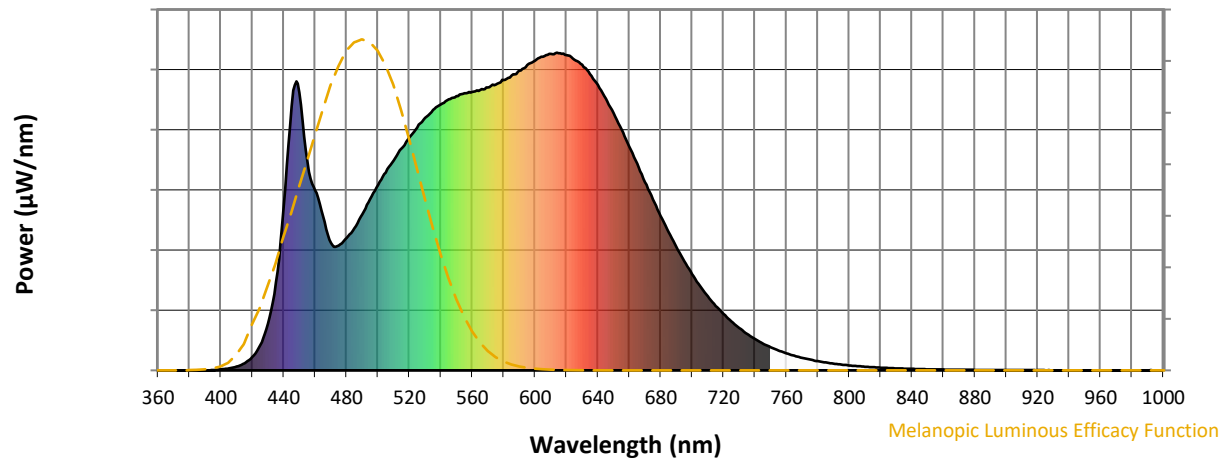
Scotopic Lumens: NR

S/P: 1.72

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	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.52

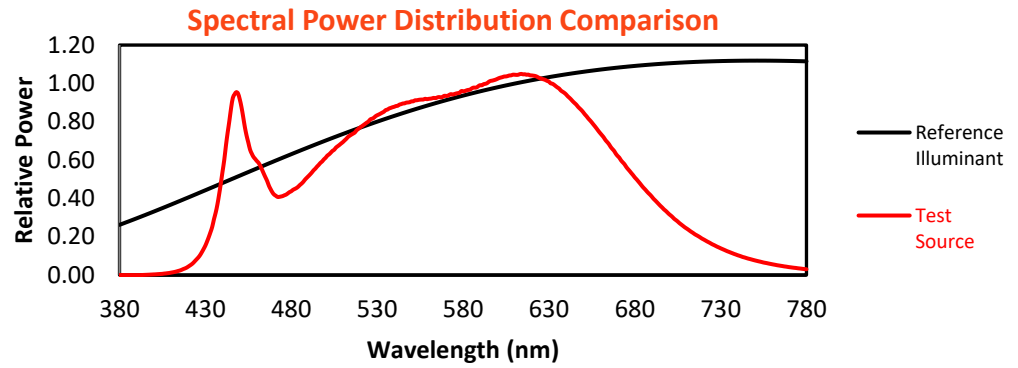
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	492	NR	620	993	NR	750	73	NR	880	1	NR
365	0	NR	495	539	NR	625	978	NR	755	62	NR	885	1	NR
370	0	NR	500	583	NR	630	962	NR	760	54	NR	890	1	NR
375	0	NR	505	623	NR	635	933	NR	765	46	NR	895	1	NR
380	0	NR	510	661	NR	640	898	NR	770	39	NR	900	1	NR
385	0	NR	515	698	NR	645	855	NR	775	34	NR	905	1	NR
390	0	NR	520	733	NR	650	810	NR	780	29	NR	910	1	NR
395	1	NR	525	764	NR	655	759	NR	785	25	NR	915	1	NR
400	3	NR	530	794	NR	660	704	NR	790	21	NR	920	1	NR
405	6	NR	535	820	NR	665	651	NR	795	18	NR	925	1	NR
410	12	NR	540	837	NR	670	592	NR	800	16	NR	930	1	NR
415	22	NR	545	853	NR	675	538	NR	805	13	NR	935	0	NR
420	42	NR	550	864	NR	680	486	NR	810	12	NR	940	0	NR
425	79	NR	555	872	NR	685	435	NR	815	10	NR	945	0	NR
430	147	NR	560	876	NR	690	389	NR	820	9	NR	950	0	NR
435	278	NR	565	883	NR	695	344	NR	825	7	NR	955	0	NR
440	515	NR	570	891	NR	700	303	NR	830	6	NR	960	0	NR
445	832	NR	575	900	NR	705	266	NR	835	5	NR	965	0	NR
450	874	NR	580	914	NR	710	233	NR	840	5	NR	970	0	NR
455	659	NR	585	927	NR	715	203	NR	845	4	NR	975	0	NR
460	567	NR	590	944	NR	720	178	NR	850	4	NR	980	0	NR
465	485	NR	595	961	NR	725	154	NR	855	3	NR	985	0	NR
470	401	NR	600	975	NR	730	133	NR	860	3	NR	990	0	NR
475	393	NR	605	988	NR	735	115	NR	865	2	NR	995	1	NR
480	417	NR	610	996	NR	740	98	NR	870	2	NR	1000	0	NR
485	448	NR	615	998	NR	745	85	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-16

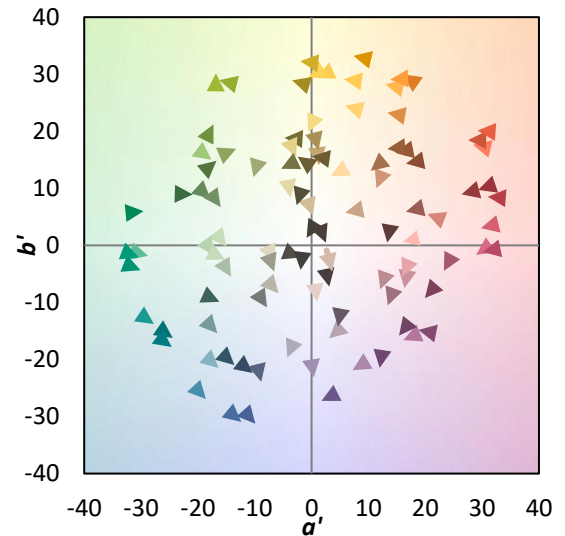
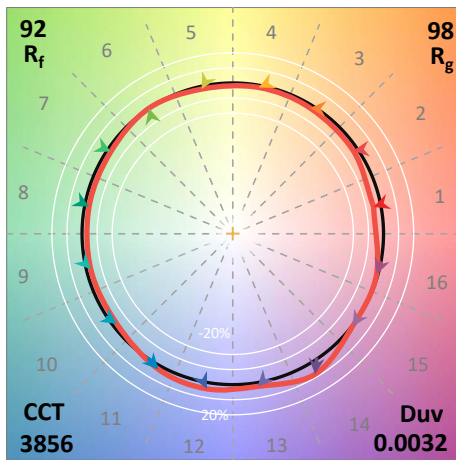
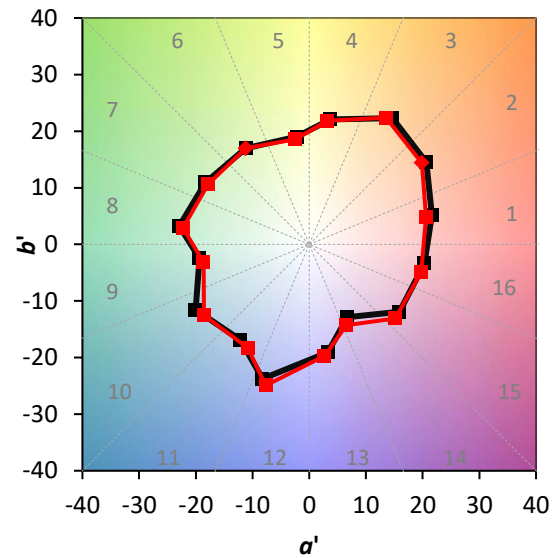
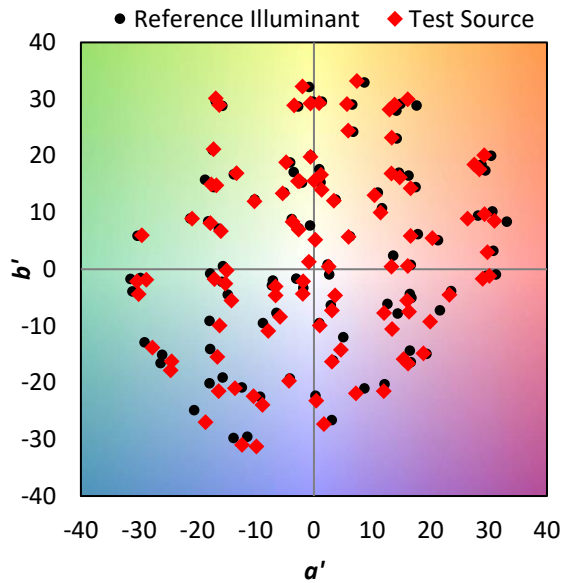
TM-30-18

Summary

$R_f = 91.8$
 $R_g = 98.4$
 $CIE\ R_a = 92.1$
 $R_9 = 60.7$

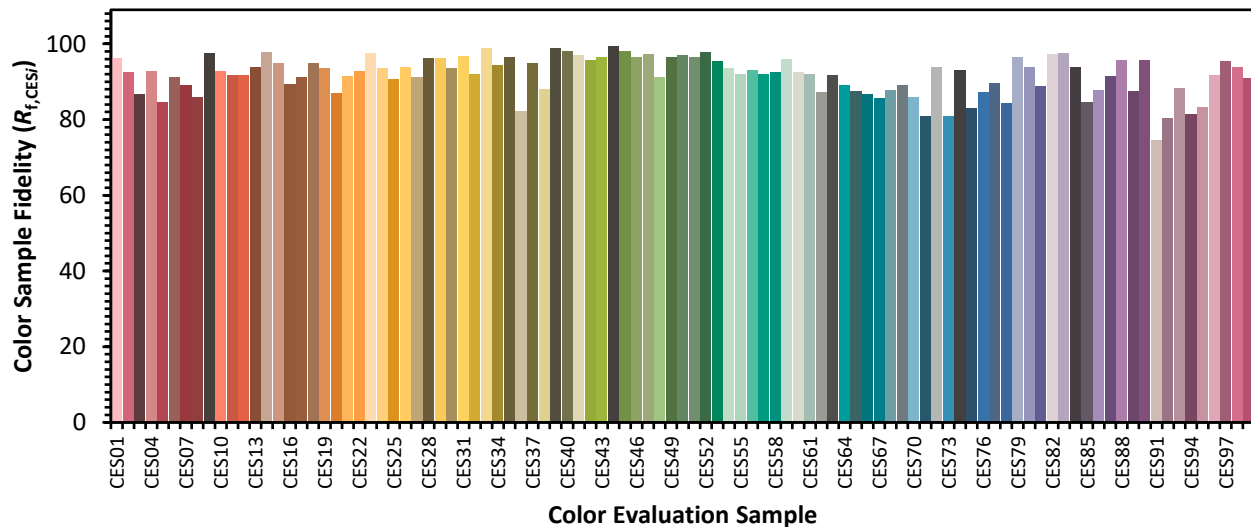


Color Vector Graphics

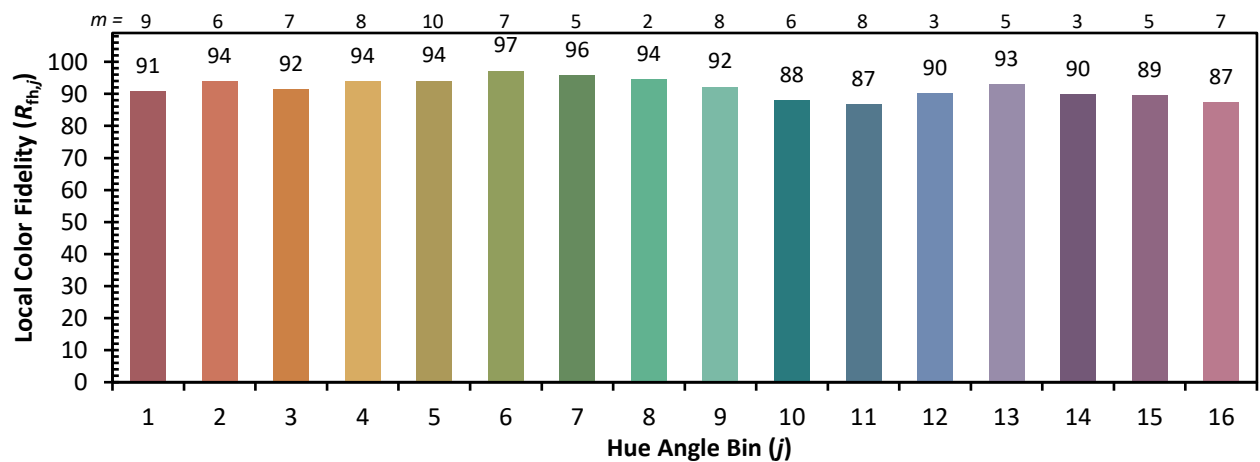
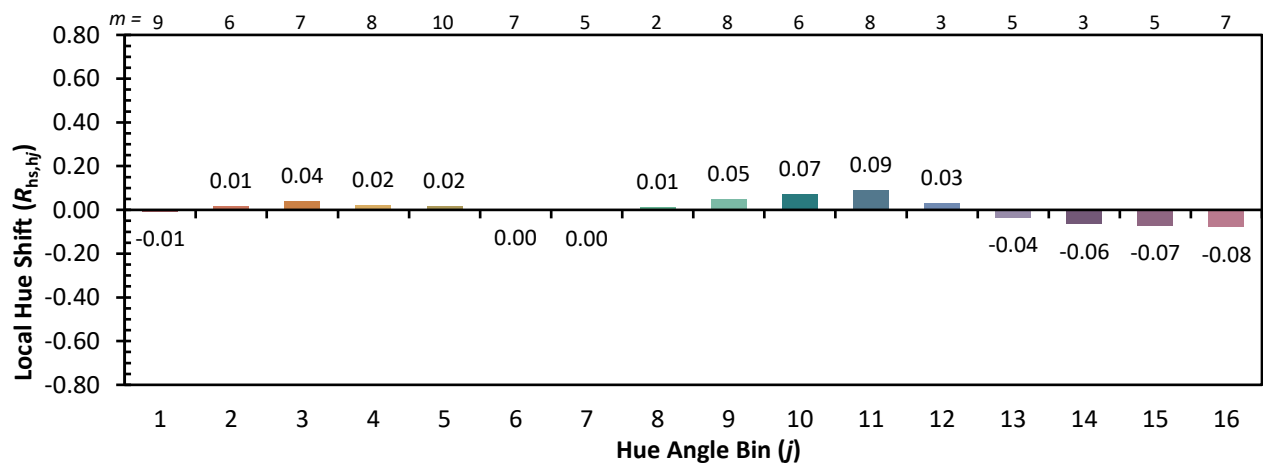
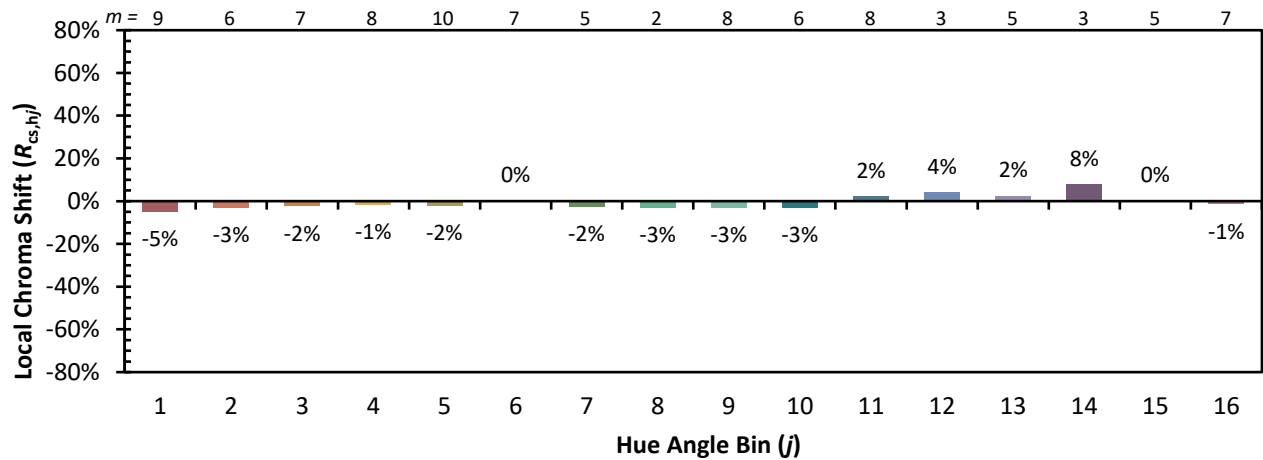


Individual Sample Fidelity Index ($R_{f,i}$)

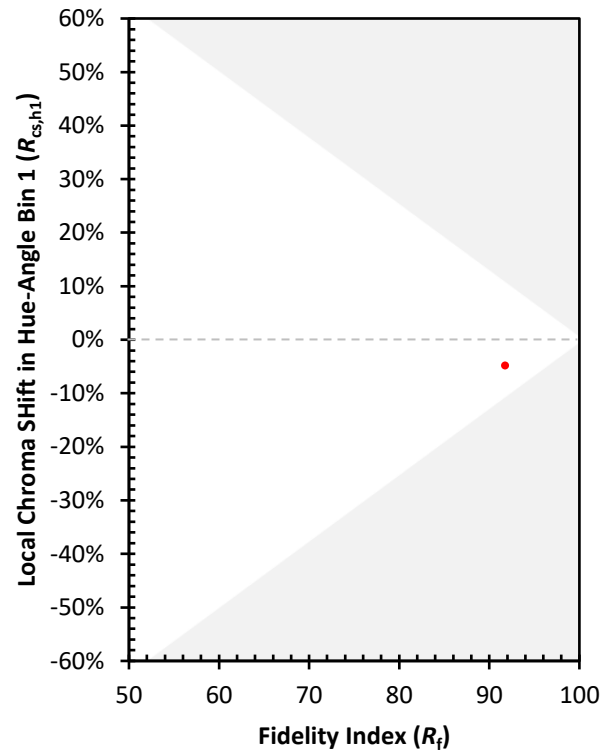
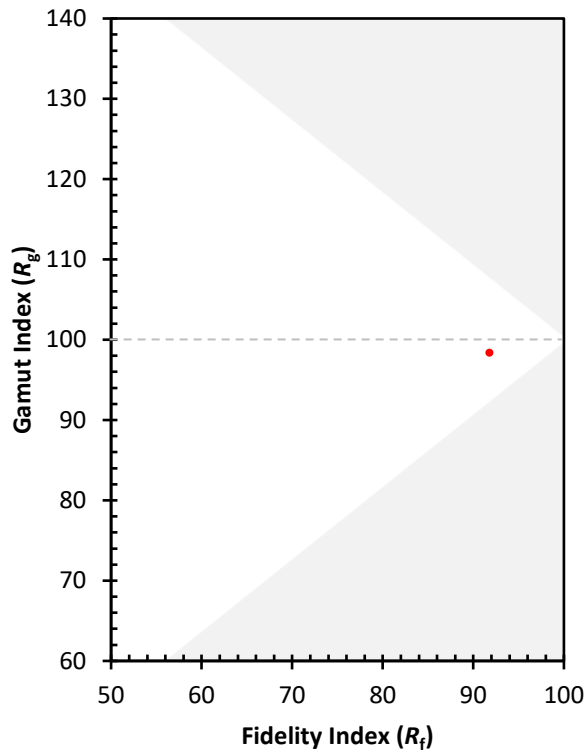
CES01 = 86	CES26 = 94	CES51 = 96	CES76 = 87
CES02 = 62	CES27 = 91	CES52 = 98	CES77 = 90
CES03 = 31	CES28 = 96	CES53 = 95	CES78 = 84
CES04 = 69	CES29 = 96	CES54 = 94	CES79 = 96
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 94
CES06 = 50	CES31 = 97	CES56 = 93	CES81 = 89
CES07 = 42	CES32 = 92	CES57 = 92	CES82 = 97
CES08 = 41	CES33 = 99	CES58 = 92	CES83 = 98
CES09 = 29	CES34 = 94	CES59 = 96	CES84 = 94
CES10 = 74	CES35 = 96	CES60 = 93	CES85 = 85
CES11 = 57	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 63	CES37 = 95	CES62 = 87	CES87 = 92
CES13 = 43	CES38 = 88	CES63 = 92	CES88 = 96
CES14 = 74	CES39 = 99	CES64 = 89	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 88	CES90 = 96
CES16 = 47	CES41 = 97	CES66 = 87	CES91 = 74
CES17 = 49	CES42 = 96	CES67 = 86	CES92 = 80
CES18 = 56	CES43 = 96	CES68 = 88	CES93 = 88
CES19 = 71	CES44 = 99	CES69 = 89	CES94 = 82
CES20 = 66	CES45 = 98	CES70 = 86	CES95 = 83
CES21 = 85	CES46 = 97	CES71 = 81	CES96 = 92
CES22 = 78	CES47 = 97	CES72 = 94	CES97 = 95
CES23 = 91	CES48 = 91	CES73 = 81	CES98 = 94
CES24 = 90	CES49 = 96	CES74 = 93	CES99 = 91
CES25 = 71	CES50 = 97	CES75 = 83	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)