

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: P1049885

Luminaire Tested: **GALN-SA8A-850-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049885
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-850-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE
80CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23755.4 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

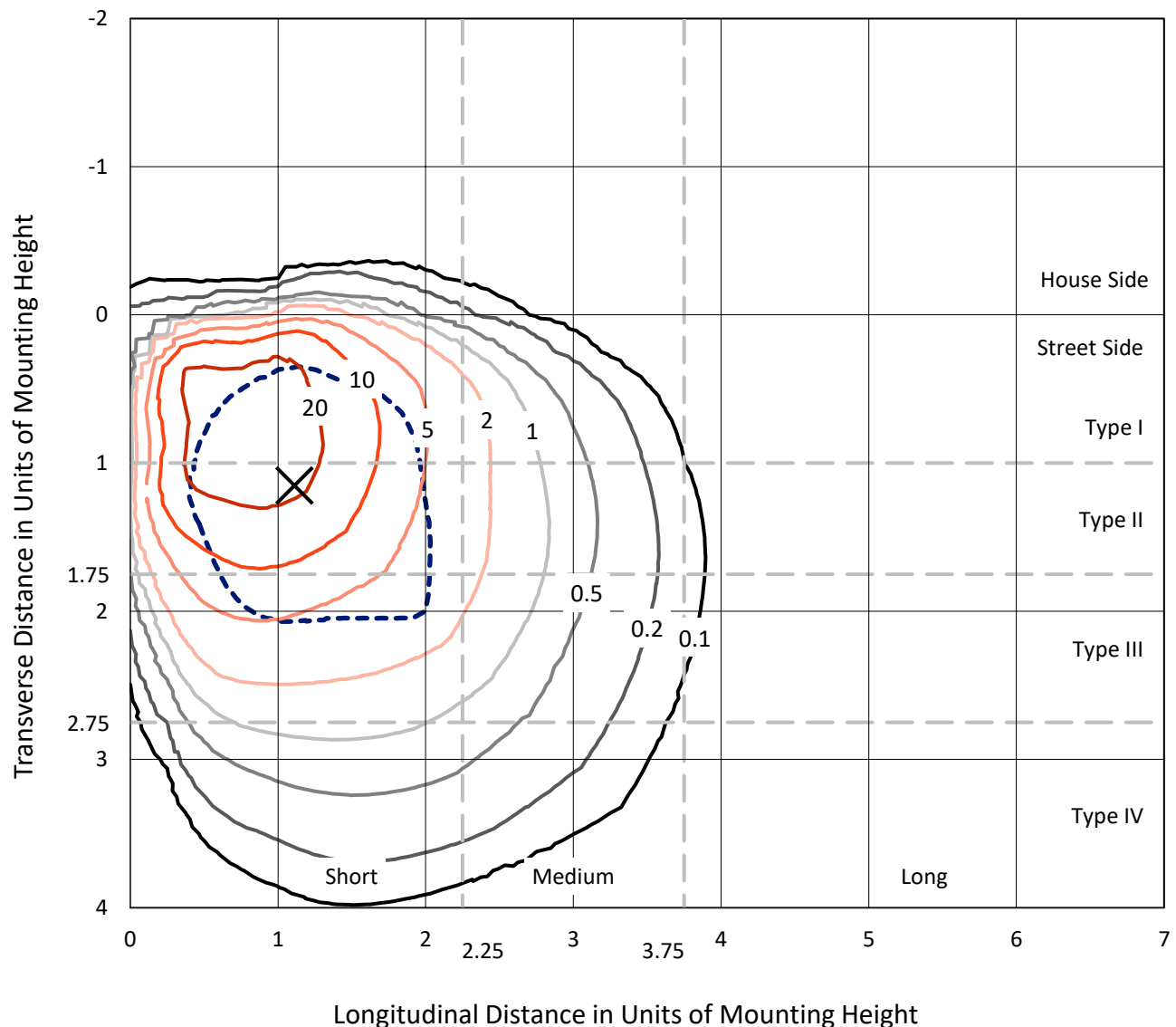
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

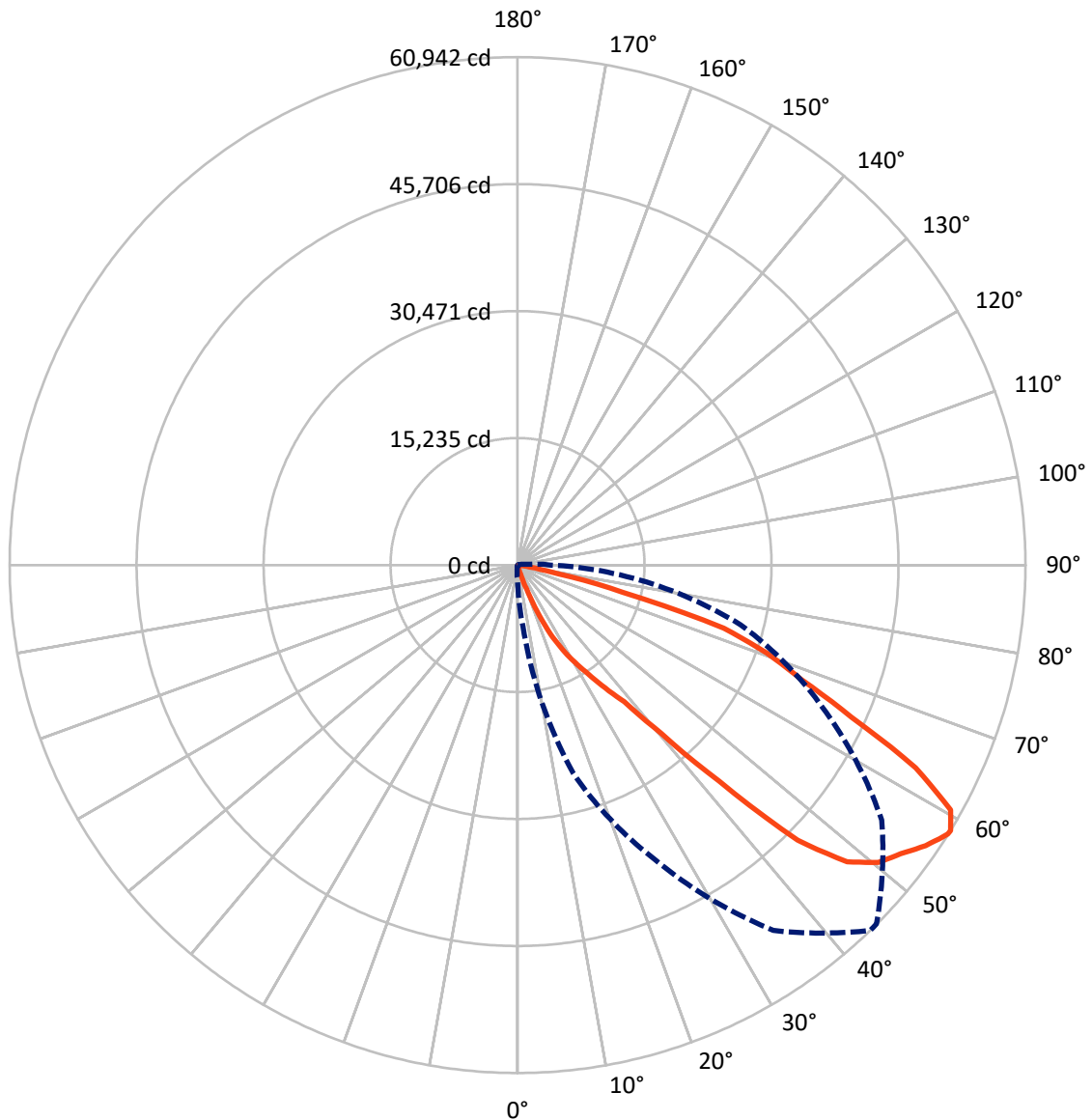
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.4 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	162.2	0.0	162.2
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	23593.2	0.0	23593.2
	% Fixture	99.3	0.0	99.3
Total	Lumens	23755.4	0.0	23755.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.3	0.0
10°-20°	52.1	0.2
20°-30°	562.8	2.4
30°-40°	1664.3	7.0
40°-50°	4960.5	20.9
50°-60°	7871.1	33.1
60°-70°	6565.4	27.6
70°-80°	2024.9	8.5
80°-90°	45.0	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°	23755.4	100.0
0°-180°	23755.4	100.0



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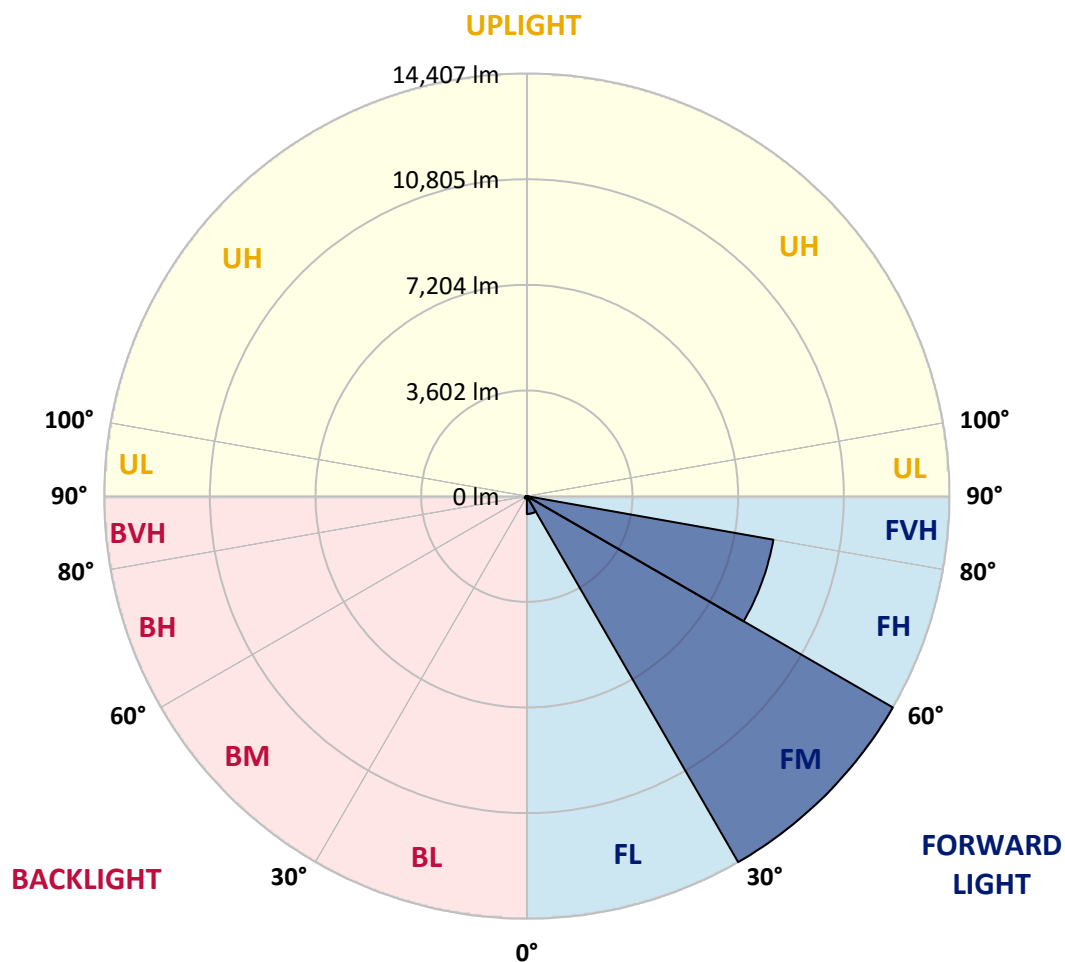
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.3	2.6			
FM	(30°-60°)	14407.1	60.6			
FH	(60°-80°)	8535.0	35.9			G4/12000
FVH	(80°-90°)	42.8	0.2			G1/100
BL	(0°-30°)	15.9	0.1	B0/110		
BM	(30°-60°)	88.8	0.4	B0/220		
BH	(60°-80°)	55.4	0.2	B0/110		G0/110
BVH	(80°-90°)	2.2	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
2.5°	134.6	134.6	129.2	122.0	114.8	107.7	105.9	102.3	100.5	98.7
5°	140.0	140.0	138.2	132.8	125.6	120.2	120.2	114.8	111.3	107.7
7.5°	143.6	145.4	148.9	147.2	143.6	138.2	138.2	134.6	129.2	120.2
10°	148.9	154.3	161.5	165.1	166.9	166.9	165.1	163.3	154.3	141.8
12.5°	154.3	165.1	183.0	201.0	211.8	226.1	224.3	220.7	197.4	170.5
15°	165.1	181.2	218.9	271.0	351.7	402.0	421.7	403.8	326.6	229.7
17.5°	177.7	204.6	317.6	567.1	929.6	1101.8	1205.9	1121.6	742.9	436.1
20°	190.2	249.4	590.4	1469.7	2411.8	2975.3	3131.4	2887.4	1853.7	830.9
22.5°	211.8	349.9	1196.9	3038.1	5196.9	6042.1	6201.9	5421.2	3501.1	1640.2
25°	256.6	507.8	2063.7	4951.1	7755.9	9182.5	9116.1	8093.3	5679.6	2620.0
27.5°	321.2	739.3	3120.7	7034.5	10207.2	11465.2	11615.9	10350.8	7571.1	3852.8
30°	414.5	1024.7	4254.8	8703.4	12172.2	13532.5	13557.6	12249.4	9263.3	4934.9
32.5°	504.3	1293.8	5247.2	10316.7	14108.5	15599.7	15711.0	14101.3	10526.6	6061.9
35°	572.5	1469.7	6252.1	11734.4	16060.9	18115.7	18108.5	16197.3	12023.3	7068.6
37.5°	577.8	1645.6	7161.9	13184.3	18533.8	20834.3	21062.3	18955.5	13832.1	8314.0
40°	565.3	1843.0	8314.0	15445.4	22989.6	26519.4	26720.4	24064.5	17460.7	10445.9
42.5°	579.6	2185.7	10183.9	19621.3	30388.4	35457.9	35845.5	33053.2	24130.9	14795.8
45°	655.0	2830.0	14101.3	26607.3	40934.7	47115.1	46985.9	42964.3	31892.2	21417.6
47.5°	904.4	4407.3	19908.4	33406.7	47674.9	53178.7	53290.0	48374.8	36421.5	26508.6
50°	1390.8	6743.8	24787.7	37001.2	50573.1	56094.8	55990.7	50311.1	38142.5	29015.6
52.5°	1808.9	8434.2	27235.4	38262.7	50944.6	57535.8	57528.6	50820.7	38409.9	29230.9
55°	1913.0	8561.6	27255.1	38330.9	51777.2	59421.9	59658.7	52075.1	38756.2	28290.6
57.5°	1871.7	7580.0	26117.4	38725.7	53259.5	60880.8	60893.4	53290.0	39635.5	27714.5
58°	1835.8	7425.7	25887.7	38950.0	53514.3	60941.8	60911.3	53345.6	40351.5	27693.0
60°	1634.8	6447.7	24992.2	39522.5	53135.7	59689.2	59403.9	52130.7	40245.6	27472.3
62.5°	1284.9	5030.0	24111.1	38860.3	49076.5	53625.6	53744.0	46153.2	36688.9	26185.6
65°	1022.9	3748.7	22273.6	34086.9	40412.5	44037.5	44478.9	37530.5	30623.4	22173.1
67.5°	814.7	2709.7	18684.5	27138.5	31978.3	36753.5	37074.7	31509.9	23725.3	16988.7
70°	662.2	1832.2	12897.2	19847.4	26375.8	31745.0	31764.8	26176.6	17708.3	11131.4
72.5°	586.8	1268.7	7486.7	14474.6	21387.1	25868.0	25345.8	21241.7	13609.6	6593.1
75°	507.8	841.6	3671.6	8848.8	12967.2	13055.1	13254.3	9853.7	6803.0	3135.0
77.5°	418.1	597.6	1446.4	2417.2	3888.7	4978.0	5162.8	3912.0	2262.9	771.6
80°	287.1	283.5	389.4	741.1	1112.6	1394.3	1301.0	1006.7	592.2	296.1
82.5°	123.8	134.6	175.9	211.8	172.3	166.9	159.7	102.3	79.0	61.0
85°	39.5	35.9	37.7	37.7	30.5	23.3	23.3	10.8	0.0	0.0
87.5°	19.7	16.2	16.2	14.4	9.0	3.6	1.8	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°
104.1	0°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
96.9	2.5°	95.1	95.1	91.5	87.9	86.1	82.5	80.8	79.0	77.2	75.4
104.1	5°	100.5	98.7	93.3	87.9	82.5	77.2	73.6	70.0	66.4	64.6
114.8	7.5°	109.5	105.9	95.1	86.1	79.0	71.8	68.2	62.8	59.2	53.8
127.4	10°	120.2	113.1	98.7	87.9	77.2	68.2	62.8	57.4	52.0	44.9
145.4	12.5°	134.6	122.0	104.1	86.1	73.6	62.8	57.4	50.2	44.9	39.5
168.7	15°	147.2	131.0	105.9	86.1	70.0	57.4	50.2	43.1	37.7	30.5
211.8	17.5°	165.1	138.2	104.1	80.8	64.6	50.2	43.1	37.7	28.7	17.9
314.0	20°	195.6	143.6	100.5	75.4	55.6	41.3	32.3	25.1	12.6	3.6
472.0	22.5°	244.1	157.9	96.9	68.2	48.5	32.3	21.5	9.0	0.0	0.0
717.8	25°	337.4	183.0	96.9	64.6	43.1	23.3	7.2	0.0	0.0	0.0
1019.3	27.5°	448.6	217.1	96.9	55.6	34.1	12.6	0.0	0.0	0.0	0.0
1389.0	30°	561.7	254.8	96.9	48.5	26.9	1.8	0.0	0.0	0.0	0.0
1710.2	32.5°	669.4	287.1	98.7	41.3	17.9	0.0	0.0	0.0	0.0	0.0
2155.2	35°	778.8	292.5	96.9	35.9	10.8	0.0	0.0	0.0	0.0	0.0
2700.7	37.5°	918.8	281.7	91.5	32.3	5.4	0.0	0.0	0.0	0.0	0.0
3553.1	40°	1130.5	287.1	86.1	30.5	1.8	0.0	0.0	0.0	0.0	0.0
5073.1	42.5°	1521.8	310.5	79.0	30.5	0.0	0.0	0.0	0.0	0.0	0.0
8080.7	45°	2630.8	416.3	71.8	32.3	0.0	0.0	0.0	0.0	0.0	0.0
12130.9	47.5°	4351.7	748.3	70.0	32.3	0.0	0.0	0.0	0.0	0.0	0.0
14612.8	50°	5554.0	942.1	73.6	34.1	0.0	0.0	0.0	0.0	0.0	0.0
14923.2	52.5°	5545.1	1049.8	77.2	35.9	7.2	0.0	0.0	0.0	0.0	0.0
13755.0	55°	4929.5	1069.5	82.5	39.5	23.3	0.0	0.0	0.0	0.0	0.0
11820.5	57.5°	4120.2	976.2	95.1	48.5	43.1	0.0	0.0	0.0	0.0	0.0
11517.2	58°	3976.7	933.1	98.7	50.2	46.7	0.0	0.0	0.0	0.0	0.0
9990.1	60°	3258.8	760.9	125.6	62.8	62.8	0.0	0.0	0.0	0.0	0.0
8190.2	62.5°	2250.3	664.0	143.6	80.8	64.6	0.0	0.0	0.0	0.0	0.0
6038.6	65°	1591.7	599.4	156.1	86.1	52.0	0.0	0.0	0.0	0.0	0.0
4290.7	67.5°	1189.8	552.7	172.3	87.9	26.9	0.0	0.0	0.0	0.0	0.0
2691.8	70°	911.6	518.6	211.8	93.3	7.2	0.0	0.0	0.0	0.0	0.0
1604.3	72.5°	742.9	479.1	256.6	96.9	0.0	0.0	0.0	0.0	0.0	0.0
961.9	75°	615.5	432.5	247.6	105.9	0.0	0.0	0.0	0.0	0.0	0.0
513.2	77.5°	409.2	335.6	226.1	105.9	0.0	0.0	0.0	0.0	0.0	0.0
183.0	80°	143.6	132.8	175.9	93.3	0.0	0.0	0.0	0.0	0.0	0.0
37.7	82.5°	21.5	17.9	25.1	32.3	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°
104.1	0°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
73.6	2.5°	73.6	73.6	71.8	73.6	73.6	77.2	86.1	98.7	113.1	118.4
62.8	5°	61.0	59.2	57.4	57.4	57.4	62.8	70.0	84.3	100.5	107.7
52.0	7.5°	50.2	48.5	46.7	44.9	44.9	48.5	57.4	73.6	89.7	96.9
43.1	10°	41.3	37.7	35.9	34.1	34.1	37.7	46.7	62.8	80.8	87.9
35.9	12.5°	34.1	28.7	25.1	23.3	21.5	26.9	35.9	50.2	70.0	79.0
26.9	15°	23.3	17.9	12.6	10.8	9.0	14.4	23.3	39.5	59.2	70.0
14.4	17.5°	12.6	5.4	1.8	0.0	0.0	3.6	10.8	28.7	48.5	57.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	35.9	44.9
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	21.5	30.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.2
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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	5.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	14.4
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°
104.1	0°	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
123.8	2.5°	127.4	125.6	122.0	118.4	118.4	118.4	123.8	129.2	134.6	134.6
111.3	5°	118.4	118.4	116.6	113.1	113.1	114.8	122.0	131.0	138.2	140.0
102.3	7.5°	109.5	113.1	109.5	107.7	109.5	111.3	118.4	129.2	140.0	143.6
95.1	10°	104.1	105.9	105.9	104.1	104.1	107.7	114.8	129.2	143.6	148.9
86.1	12.5°	96.9	100.5	98.7	98.7	98.7	102.3	111.3	127.4	147.2	154.3
77.2	15°	89.7	95.1	95.1	93.3	93.3	95.1	107.7	125.6	152.5	165.1
66.4	17.5°	82.5	87.9	89.7	86.1	86.1	89.7	102.3	125.6	156.1	177.7
53.8	20°	68.2	77.2	82.5	77.2	77.2	80.8	93.3	118.4	157.9	190.2
39.5	22.5°	53.8	62.8	70.0	68.2	68.2	70.0	86.1	113.1	159.7	211.8
23.3	25°	39.5	48.5	53.8	57.4	57.4	62.8	79.0	109.5	166.9	256.6
10.8	27.5°	23.3	34.1	41.3	44.9	46.7	53.8	73.6	105.9	179.5	321.2
0.0	30°	10.8	19.7	28.7	35.9	35.9	48.5	68.2	102.3	195.6	414.5
0.0	32.5°	0.0	9.0	14.4	25.1	26.9	39.5	62.8	98.7	218.9	504.3
0.0	35°	0.0	0.0	7.2	19.7	19.7	32.3	57.4	95.1	254.8	572.5
0.0	37.5°	0.0	0.0	0.0	14.4	16.2	28.7	55.6	93.3	262.0	577.8
0.0	40°	0.0	0.0	0.0	10.8	12.6	26.9	55.6	95.1	236.9	565.3
0.0	42.5°	0.0	0.0	0.0	7.2	9.0	26.9	55.6	98.7	213.5	579.6
0.0	45°	0.0	0.0	0.0	5.4	7.2	28.7	53.8	96.9	201.0	655.0
0.0	47.5°	0.0	0.0	0.0	7.2	10.8	28.7	52.0	95.1	202.8	904.4
0.0	50°	0.0	0.0	0.0	9.0	12.6	28.7	53.8	91.5	222.5	1390.8
0.0	52.5°	0.0	0.0	0.0	7.2	10.8	32.3	59.2	89.7	242.3	1808.9
0.0	55°	0.0	0.0	0.0	1.8	5.4	41.3	64.6	89.7	272.8	1913.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	46.7	73.6	95.1	323.0	1871.7
0.0	58°	0.0	0.0	0.0	0.0	0.0	46.7	75.4	95.1	326.6	1835.8
0.0	60°	0.0	0.0	0.0	0.0	0.0	46.7	82.5	105.9	351.7	1634.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	39.5	98.7	132.8	366.1	1284.9
0.0	65°	0.0	0.0	0.0	0.0	0.0	32.3	116.6	145.4	376.8	1022.9
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	30.5	120.2	147.2	382.2	814.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	32.3	118.4	157.9	400.2	662.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	35.9	107.7	174.1	400.2	586.8
0.0	75°	0.0	0.0	0.0	0.0	0.0	37.7	100.5	195.6	364.3	507.8
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	35.9	98.7	227.9	324.8	418.1
0.0	80°	3.6	5.4	5.4	3.6	3.6	30.5	96.9	231.5	276.4	287.1
1.8	82.5°	10.8	14.4	12.6	9.0	9.0	26.9	86.1	193.8	143.6	123.8
10.8	85°	19.7	23.3	23.3	19.7	19.7	25.1	53.8	70.0	48.5	39.5
19.7	87.5°	26.9	30.5	30.5	26.9	26.9	25.1	23.3	21.5	19.7	19.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-12

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

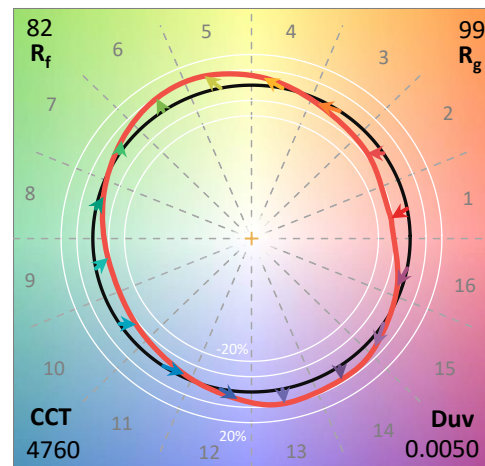
Test Information

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

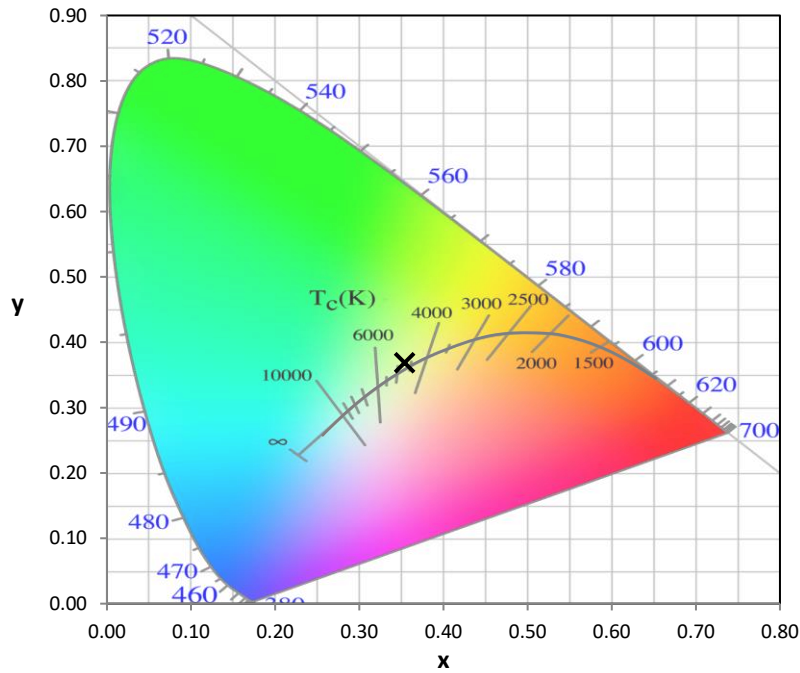
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-12

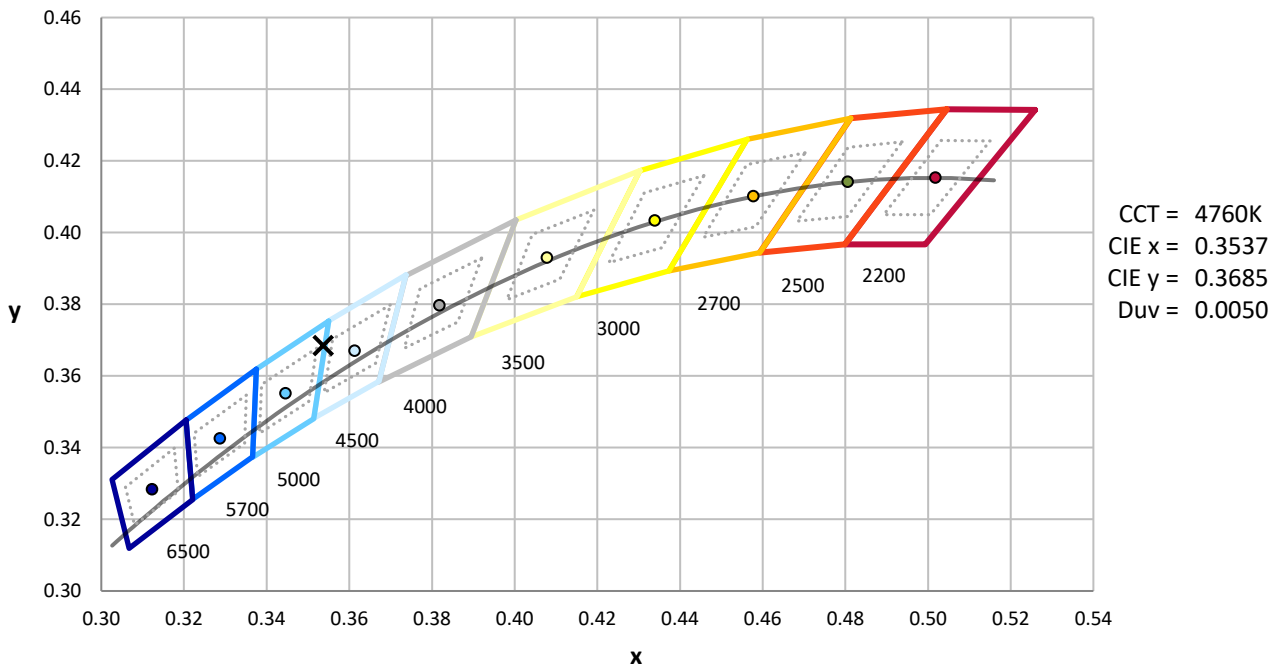
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



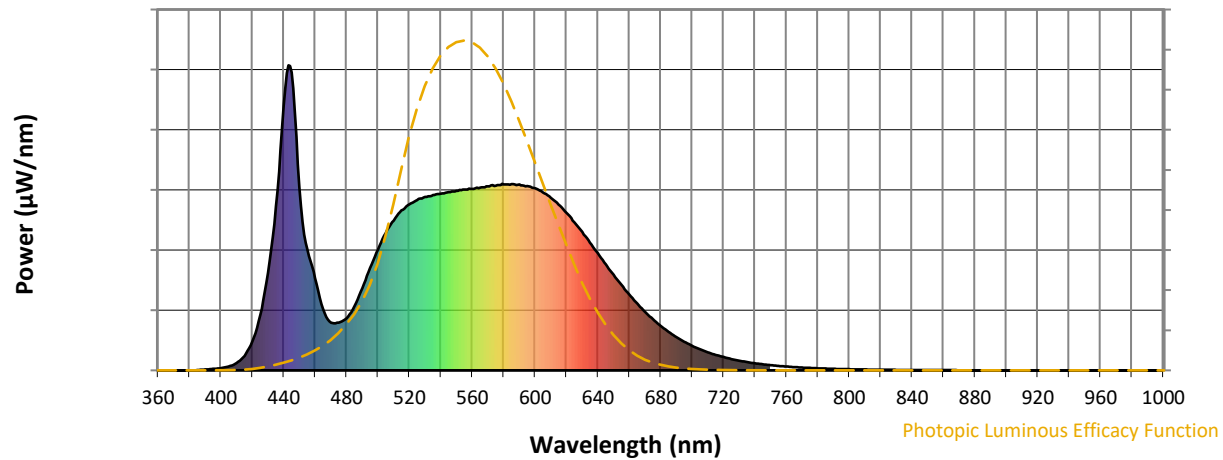
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-12

Photopic Flux vs. Wavelength

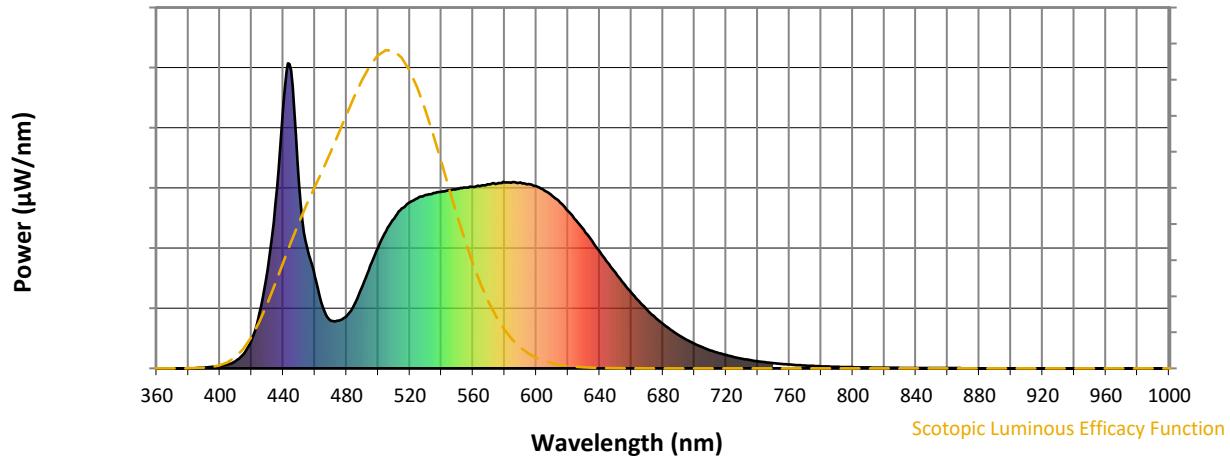


Photopic Lumens: NR

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



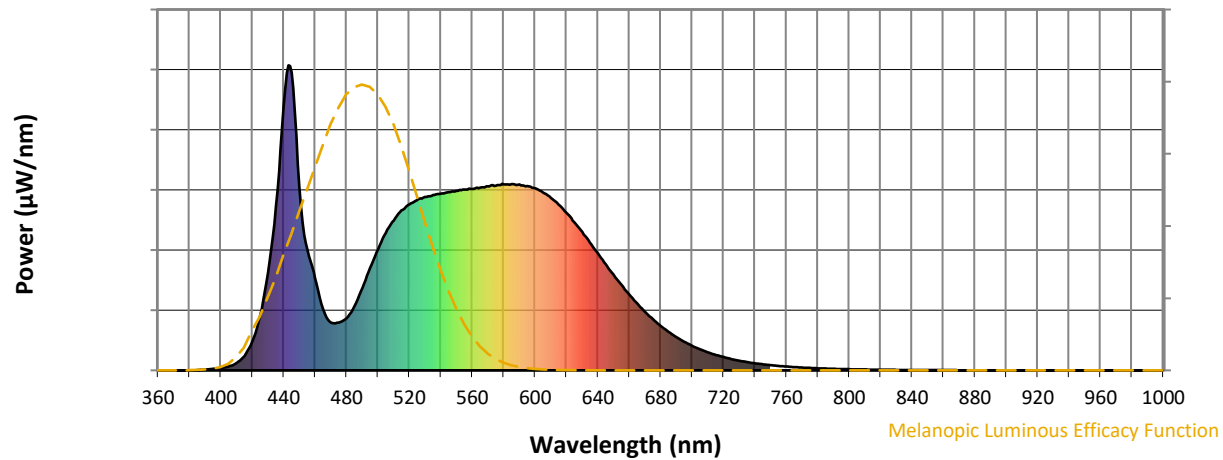
Scotopic Lumens: NR

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

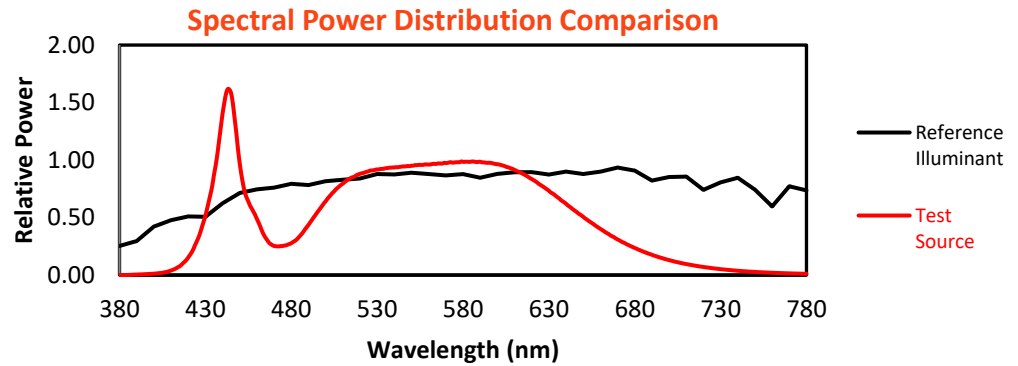
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	270	NR	620	517	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

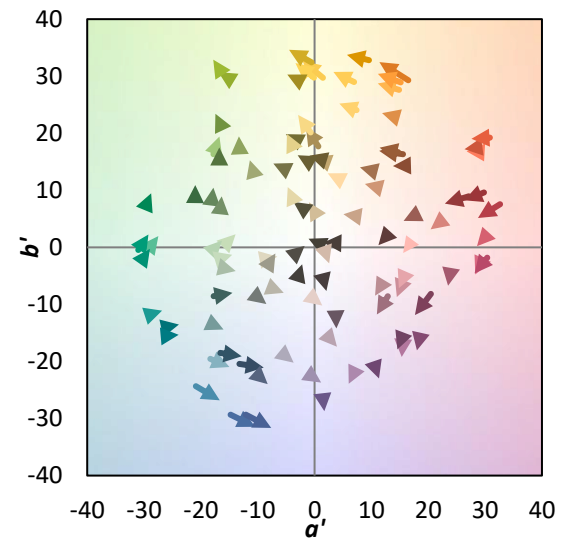
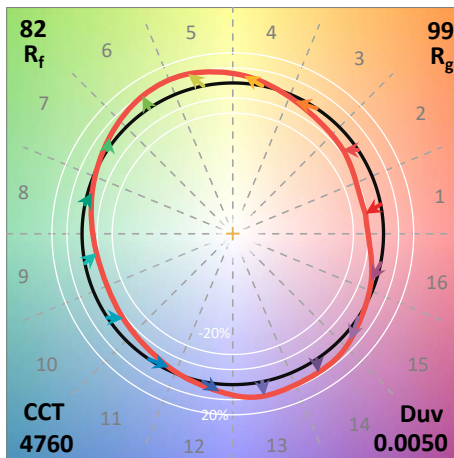
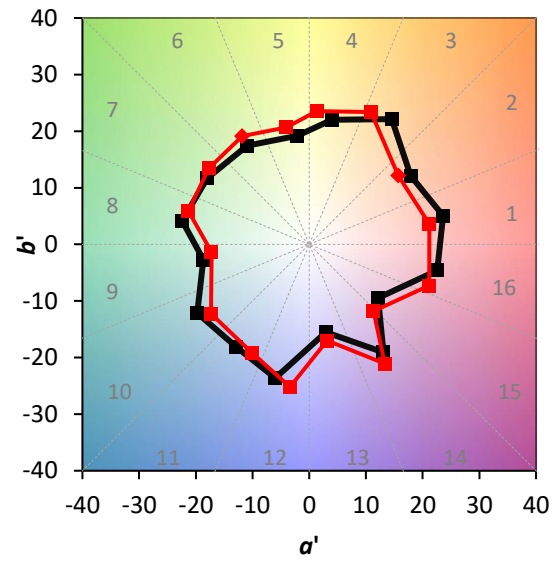
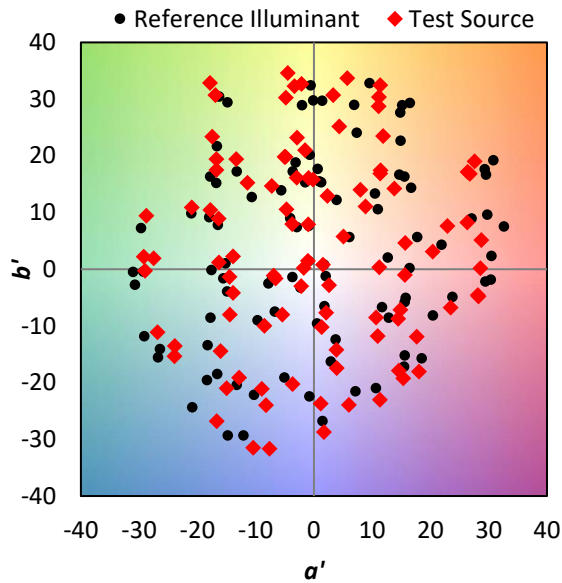
TM-30-18

Summary

$R_f = 82$
 $R_g = 99.4$
 $\text{CIE } R_a = 81.1$
 $R_9 = 8.7$

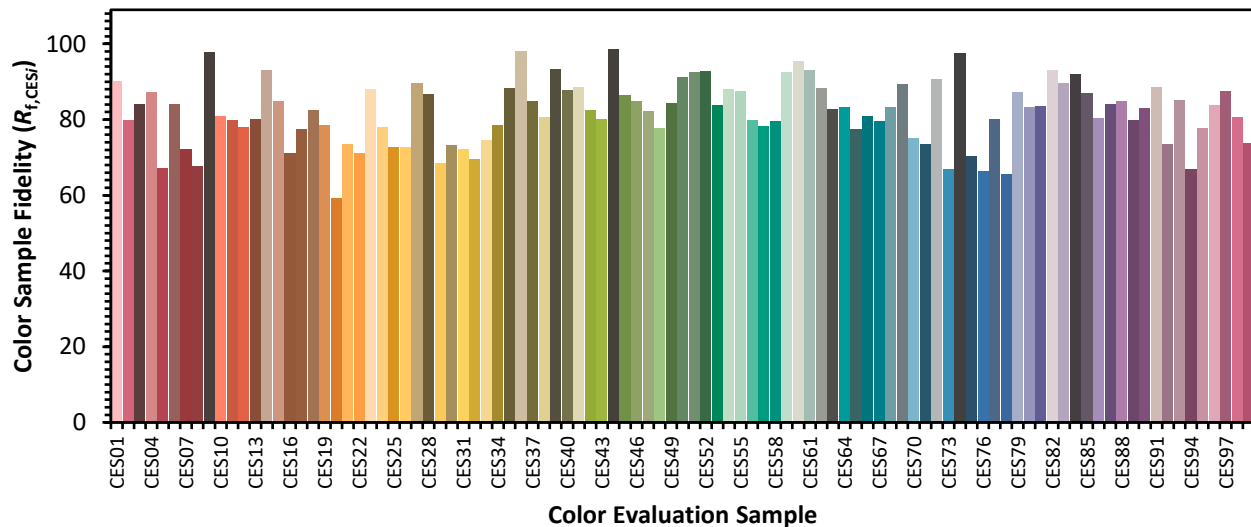


Color Vector Graphics

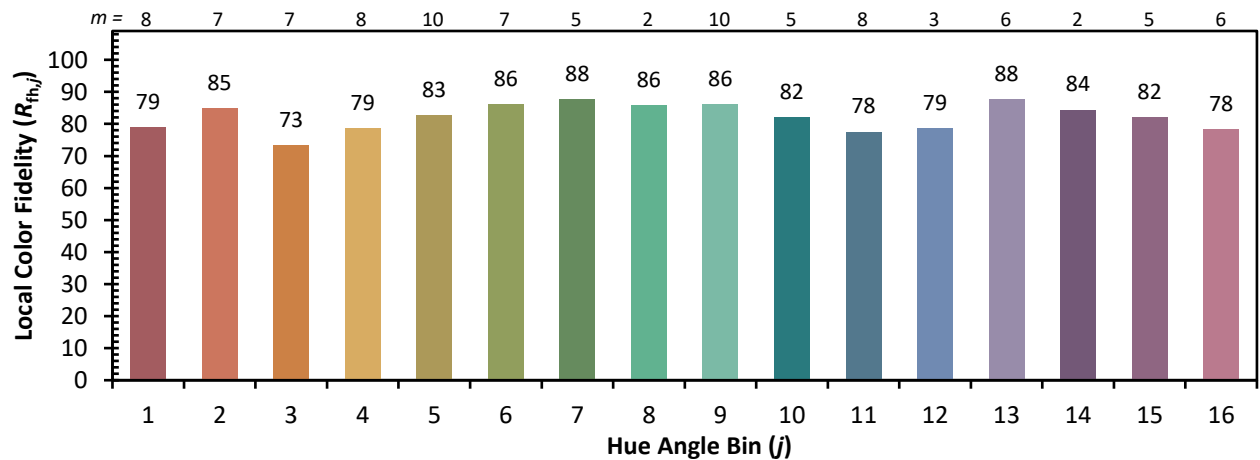
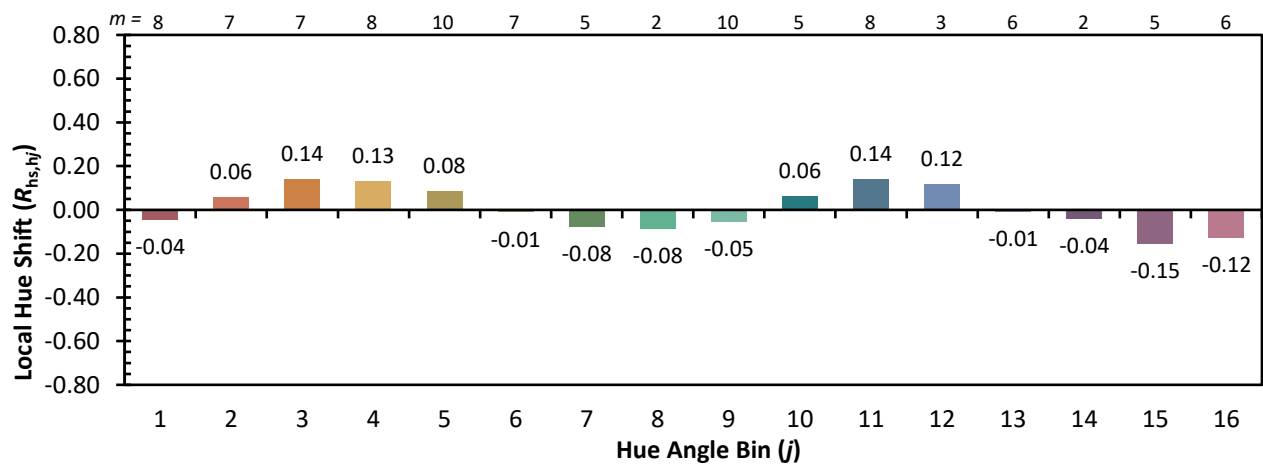
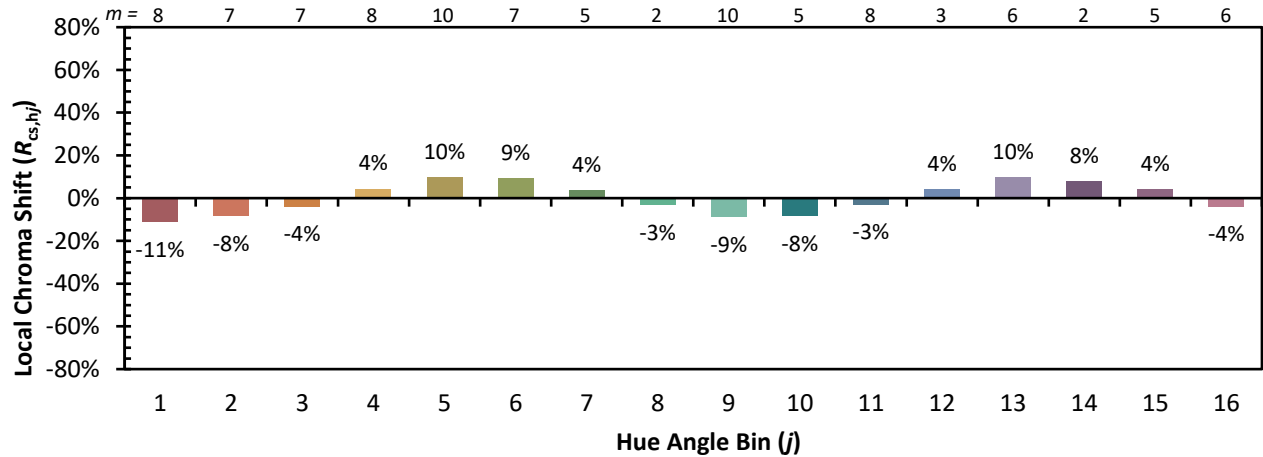


Individual Sample Fidelity Index ($R_{f,i}$)

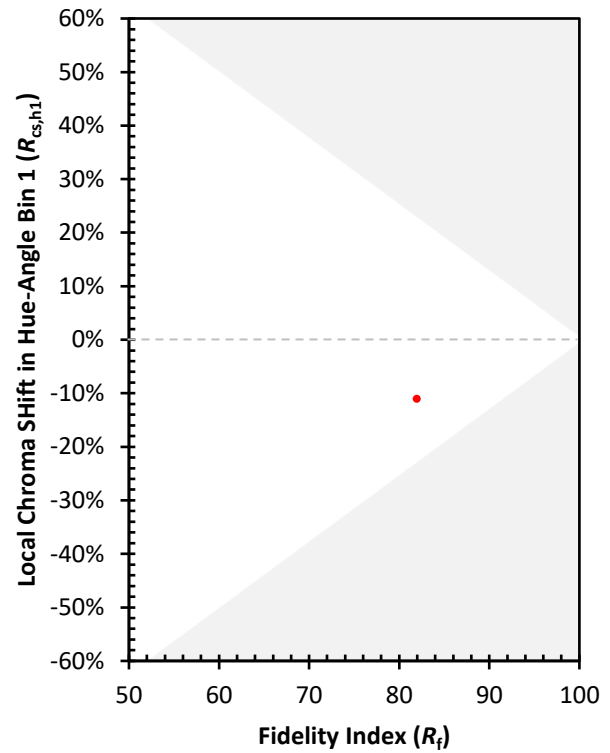
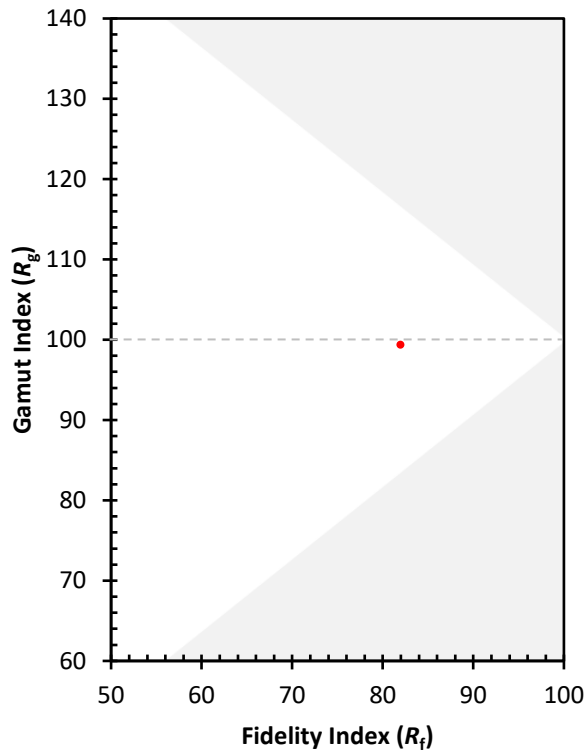
CES01 = 85	CES26 = 73	CES51 = 92	CES76 = 66
CES02 = 60	CES27 = 90	CES52 = 93	CES77 = 80
CES03 = 30	CES28 = 87	CES53 = 84	CES78 = 65
CES04 = 69	CES29 = 69	CES54 = 88	CES79 = 87
CES05 = 47	CES30 = 73	CES55 = 88	CES80 = 83
CES06 = 50	CES31 = 72	CES56 = 80	CES81 = 84
CES07 = 40	CES32 = 69	CES57 = 78	CES82 = 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)