

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: P1049831

Luminaire Tested: **GALN-SA3C-840-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049831
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 3xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

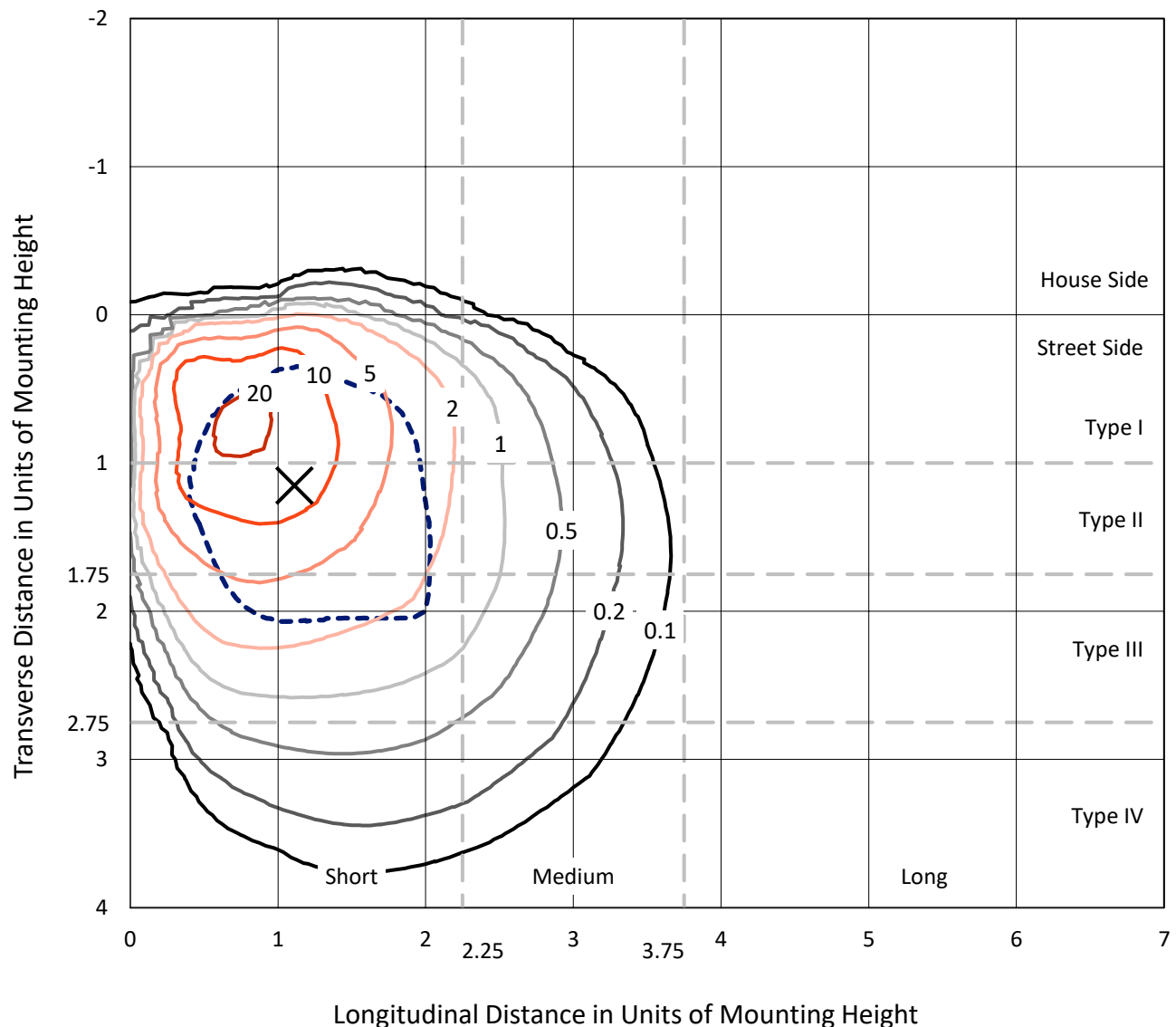
Lumens per Lamp: N/A
Luminaire Lumens: 14097.8 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G3

Input Watts (W): 140.4
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

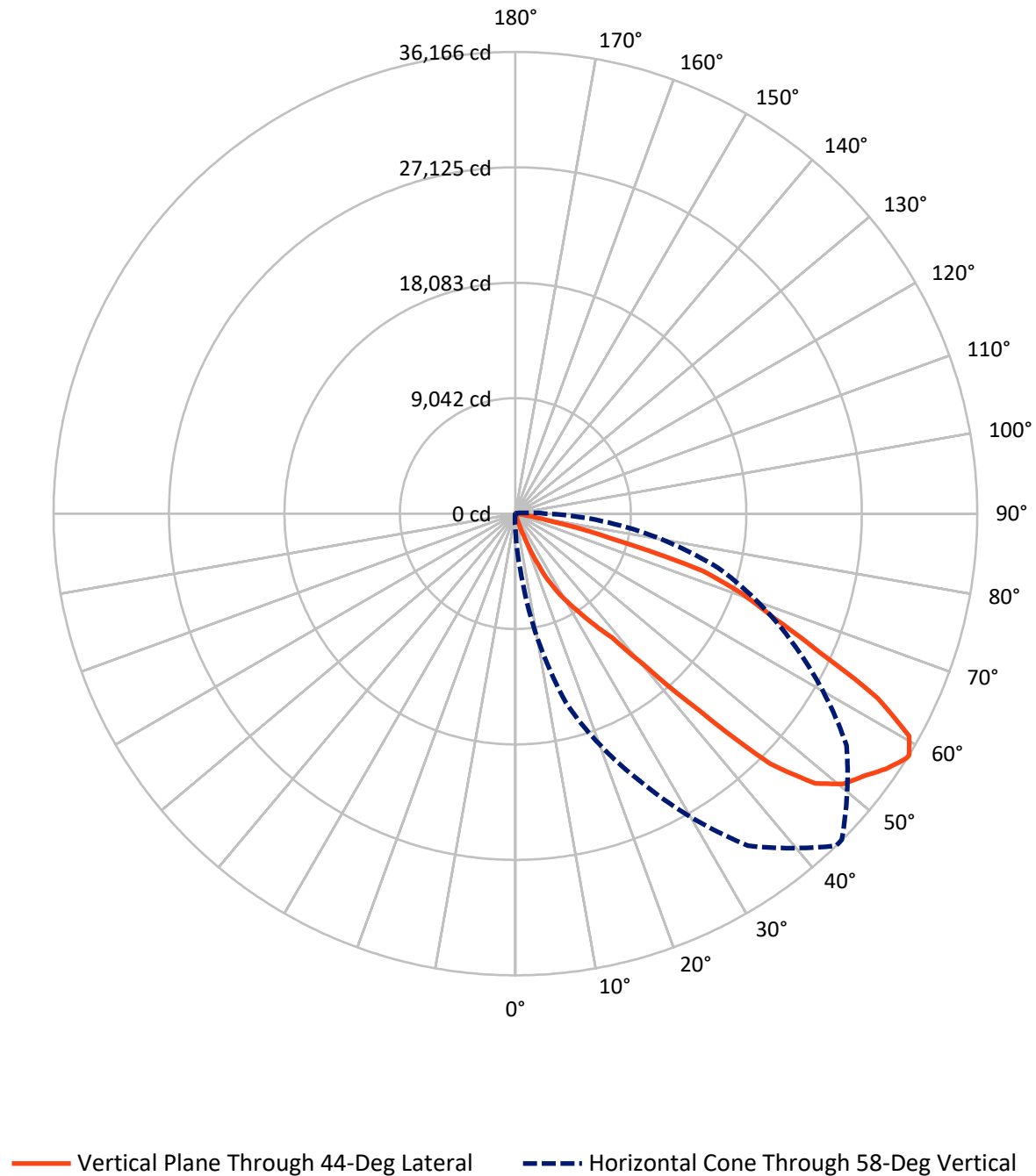
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.5 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	96.3	0.0	96.3
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	14001.6	0.0	14001.6
	% Fixture	99.3	0.0	99.3
Total	Lumens	14097.8	0.0	14097.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.0
10°-20°	30.9	0.2
20°-30°	334.0	2.4
30°-40°	987.7	7.0
40°-50°	2943.8	20.9
50°-60°	4671.2	33.1
60°-70°	3896.3	27.6
70°-80°	1201.7	8.5
80°-90°	26.7	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°	14097.8	100.0
0°-180°	14097.8	100.0



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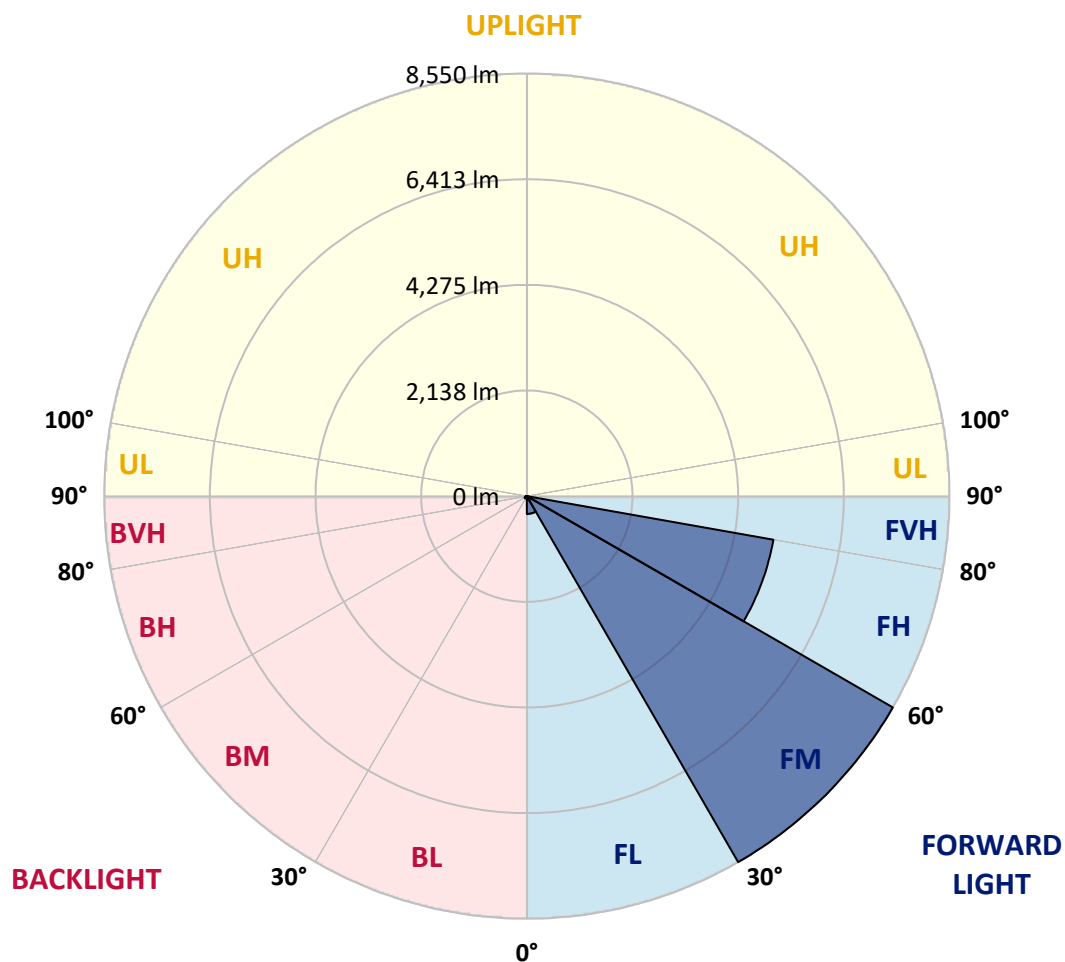
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.0	2.6			
FM	(30°-60°)	8550.0	60.6			
FH	(60°-80°)	5065.1	35.9			G3/7500
FVH	(80°-90°)	25.4	0.2			G1/100
BL	(0°-30°)	9.4	0.1	B0/110		
BM	(30°-60°)	52.7	0.4	B0/220		
BH	(60°-80°)	32.9	0.2	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	79.9	79.9	76.7	72.4	68.2	63.9	62.8	60.7	59.6	58.6
5°	83.1	83.1	82.0	78.8	74.5	71.4	71.4	68.2	66.0	63.9
7.5°	85.2	86.3	88.4	87.3	85.2	82.0	82.0	79.9	76.7	71.4
10°	88.4	91.6	95.8	98.0	99.0	99.0	98.0	96.9	91.6	84.1
12.5°	91.6	98.0	108.6	119.3	125.7	134.2	133.1	131.0	117.1	101.2
15°	98.0	107.6	129.9	160.8	208.7	238.6	250.3	239.6	193.8	136.3
17.5°	105.4	121.4	188.5	336.5	551.7	653.9	715.7	665.6	440.9	258.8
20°	112.9	148.0	350.4	872.2	1431.3	1765.7	1858.4	1713.5	1100.1	493.1
22.5°	125.7	207.7	710.3	1803.0	3084.2	3585.8	3680.5	3217.3	2077.8	973.4
25°	152.3	301.4	1224.7	2938.3	4602.8	5449.5	5410.1	4803.0	3370.6	1554.9
27.5°	190.6	438.8	1852.0	4174.7	6057.6	6804.1	6893.6	6142.8	4493.1	2286.5
30°	246.0	608.1	2525.0	5165.1	7223.7	8030.9	8045.9	7269.5	5497.4	2928.7
32.5°	299.3	767.8	3114.0	6122.5	8372.8	9257.8	9323.8	8368.5	6247.1	3597.5
35°	339.7	872.2	3710.4	6963.8	9531.5	10750.9	10746.6	9612.4	7135.3	4194.9
37.5°	342.9	976.6	4250.3	7824.3	10999.0	12364.3	12499.6	11249.3	8208.8	4934.0
40°	335.5	1093.7	4934.0	9166.2	13643.3	15738.1	15857.4	14281.3	10362.2	6199.2
42.5°	344.0	1297.1	6043.7	11644.4	18034.2	21042.8	21272.8	19615.7	14320.7	8780.7
45°	388.7	1679.5	8368.5	15790.3	24293.0	27960.8	27884.1	25497.5	18926.7	12710.4
47.5°	536.7	2615.6	11814.8	19825.5	28293.1	31559.3	31625.4	28708.4	21614.6	15731.7
50°	825.4	4002.2	14710.4	21958.6	30013.0	33289.9	33228.2	29857.5	22636.0	17219.5
52.5°	1073.5	5005.4	16163.1	22707.3	30233.5	34145.1	34140.8	30160.0	22794.6	17347.3
55°	1135.3	5081.0	16174.8	22747.8	30727.6	35264.4	35405.0	30904.4	23000.2	16789.3
57.5°	1110.8	4498.4	15499.6	22982.1	31607.3	36130.2	36137.7	31625.4	23522.0	16447.4
58°	1089.5	4406.8	15363.3	23115.2	31758.5	36166.4	36148.3	31658.4	23946.9	16434.6
60°	970.2	3826.4	14831.8	23454.9	31533.8	35423.1	35253.7	30937.4	23884.1	16303.6
62.5°	762.5	2985.1	14308.9	23061.9	29124.8	31824.5	31894.8	27390.0	21773.3	15540.1
65°	607.0	2224.7	13218.4	20229.1	23983.1	26134.4	26396.4	22272.8	18173.7	13158.8
67.5°	483.5	1608.1	11088.5	16105.6	18977.8	21811.7	22002.3	18699.8	14080.0	10082.1
70°	393.0	1087.3	7653.9	11778.6	15652.9	18839.3	18851.0	15534.7	10509.1	6606.0
72.5°	348.2	752.9	4443.1	8590.1	12692.3	15351.6	15041.6	12606.1	8076.7	3912.7
75°	301.4	499.5	2178.9	5251.4	7695.5	7747.7	7865.9	5847.8	4037.3	1860.5
77.5°	248.1	354.6	858.4	1434.5	2307.8	2954.2	3063.9	2321.6	1342.9	457.9
80°	170.4	168.3	231.1	439.8	660.3	827.5	772.1	597.4	351.4	175.7
82.5°	73.5	79.9	104.4	125.7	102.2	99.0	94.8	60.7	46.9	36.2
85°	23.4	21.3	22.4	22.4	18.1	13.8	13.8	6.4	0.0	0.0
87.5°	11.7	9.6	9.6	8.5	5.3	2.1	1.1	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°
61.8	0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
57.5	2.5°	56.4	56.4	54.3	52.2	51.1	49.0	47.9	46.9	45.8	44.7
61.8	5°	59.6	58.6	55.4	52.2	49.0	45.8	43.7	41.5	39.4	38.3
68.2	7.5°	65.0	62.8	56.4	51.1	46.9	42.6	40.5	37.3	35.1	31.9
75.6	10°	71.4	67.1	58.6	52.2	45.8	40.5	37.3	34.1	30.9	26.6
86.3	12.5°	79.9	72.4	61.8	51.1	43.7	37.3	34.1	29.8	26.6	23.4
100.1	15°	87.3	77.7	62.8	51.1	41.5	34.1	29.8	25.6	22.4	18.1
125.7	17.5°	98.0	82.0	61.8	47.9	38.3	29.8	25.6	22.4	17.0	10.6
186.4	20°	116.1	85.2	59.6	44.7	33.0	24.5	19.2	14.9	7.5	2.1
280.1	22.5°	144.8	93.7	57.5	40.5	28.8	19.2	12.8	5.3	0.0	0.0
426.0	25°	200.2	108.6	57.5	38.3	25.6	13.8	4.3	0.0	0.0	0.0
604.9	27.5°	266.2	128.9	57.5	33.0	20.2	7.5	0.0	0.0	0.0	0.0
824.3	30°	333.3	151.2	57.5	28.8	16.0	1.1	0.0	0.0	0.0	0.0
1014.9	32.5°	397.2	170.4	58.6	24.5	10.6	0.0	0.0	0.0	0.0	0.0
1279.0	35°	462.2	173.6	57.5	21.3	6.4	0.0	0.0	0.0	0.0	0.0
1602.8	37.5°	545.3	167.2	54.3	19.2	3.2	0.0	0.0	0.0	0.0	0.0
2108.6	40°	670.9	170.4	51.1	18.1	1.1	0.0	0.0	0.0	0.0	0.0
3010.7	42.5°	903.1	184.2	46.9	18.1	0.0	0.0	0.0	0.0	0.0	0.0
4795.6	45°	1561.2	247.1	42.6	19.2	0.0	0.0	0.0	0.0	0.0	0.0
7199.2	47.5°	2582.6	444.1	41.5	19.2	0.0	0.0	0.0	0.0	0.0	0.0
8672.1	50°	3296.1	559.1	43.7	20.2	0.0	0.0	0.0	0.0	0.0	0.0
8856.3	52.5°	3290.8	623.0	45.8	21.3	4.3	0.0	0.0	0.0	0.0	0.0
8163.0	55°	2925.5	634.7	49.0	23.4	13.8	0.0	0.0	0.0	0.0	0.0
7015.0	57.5°	2445.2	579.3	56.4	28.8	25.6	0.0	0.0	0.0	0.0	0.0
6835.0	58°	2360.0	553.8	58.6	29.8	27.7	0.0	0.0	0.0	0.0	0.0
5928.7	60°	1934.0	451.5	74.5	37.3	37.3	0.0	0.0	0.0	0.0	0.0
4860.5	62.5°	1335.5	394.0	85.2	47.9	38.3	0.0	0.0	0.0	0.0	0.0
3583.6	65°	944.6	355.7	92.7	51.1	30.9	0.0	0.0	0.0	0.0	0.0
2546.3	67.5°	706.1	328.0	102.2	52.2	16.0	0.0	0.0	0.0	0.0	0.0
1597.5	70°	541.0	307.8	125.7	55.4	4.3	0.0	0.0	0.0	0.0	0.0
952.1	72.5°	440.9	284.3	152.3	57.5	0.0	0.0	0.0	0.0	0.0	0.0
570.8	75°	365.3	256.7	147.0	62.8	0.0	0.0	0.0	0.0	0.0	0.0
304.6	77.5°	242.8	199.1	134.2	62.8	0.0	0.0	0.0	0.0	0.0	0.0
108.6	80°	85.2	78.8	104.4	55.4	0.0	0.0	0.0	0.0	0.0	0.0
22.4	82.5°	12.8	10.6	14.9	19.2	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°
61.8	0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
43.7	2.5°	43.7	43.7	42.6	43.7	43.7	45.8	51.1	58.6	67.1	70.3
37.3	5°	36.2	35.1	34.1	34.1	34.1	37.3	41.5	50.1	59.6	63.9
30.9	7.5°	29.8	28.8	27.7	26.6	26.6	28.8	34.1	43.7	53.2	57.5
25.6	10°	24.5	22.4	21.3	20.2	20.2	22.4	27.7	37.3	47.9	52.2
21.3	12.5°	20.2	17.0	14.9	13.8	12.8	16.0	21.3	29.8	41.5	46.9
16.0	15°	13.8	10.6	7.5	6.4	5.3	8.5	13.8	23.4	35.1	41.5
8.5	17.5°	7.5	3.2	1.1	0.0	0.0	2.1	6.4	17.0	28.8	34.1
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	21.3	26.6
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	12.8	18.1
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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	3.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.5
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°
61.8	0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
73.5	2.5°	75.6	74.5	72.4	70.3	70.3	70.3	73.5	76.7	79.9	79.9
66.0	5°	70.3	70.3	69.2	67.1	67.1	68.2	72.4	77.7	82.0	83.1
60.7	7.5°	65.0	67.1	65.0	63.9	65.0	66.0	70.3	76.7	83.1	85.2
56.4	10°	61.8	62.8	62.8	61.8	61.8	63.9	68.2	76.7	85.2	88.4
51.1	12.5°	57.5	59.6	58.6	58.6	58.6	60.7	66.0	75.6	87.3	91.6
45.8	15°	53.2	56.4	56.4	55.4	55.4	56.4	63.9	74.5	90.5	98.0
39.4	17.5°	49.0	52.2	53.2	51.1	51.1	53.2	60.7	74.5	92.7	105.4
31.9	20°	40.5	45.8	49.0	45.8	45.8	47.9	55.4	70.3	93.7	112.9
23.4	22.5°	31.9	37.3	41.5	40.5	40.5	41.5	51.1	67.1	94.8	125.7
13.8	25°	23.4	28.8	31.9	34.1	34.1	37.3	46.9	65.0	99.0	152.3
6.4	27.5°	13.8	20.2	24.5	26.6	27.7	31.9	43.7	62.8	106.5	190.6
0.0	30°	6.4	11.7	17.0	21.3	21.3	28.8	40.5	60.7	116.1	246.0
0.0	32.5°	0.0	5.3	8.5	14.9	16.0	23.4	37.3	58.6	129.9	299.3
0.0	35°	0.0	0.0	4.3	11.7	11.7	19.2	34.1	56.4	151.2	339.7
0.0	37.5°	0.0	0.0	0.0	8.5	9.6	17.0	33.0	55.4	155.5	342.9
0.0	40°	0.0	0.0	0.0	6.4	7.5	16.0	33.0	56.4	140.6	335.5
0.0	42.5°	0.0	0.0	0.0	4.3	5.3	16.0	33.0	58.6	126.7	344.0
0.0	45°	0.0	0.0	0.0	3.2	4.3	17.0	31.9	57.5	119.3	388.7
0.0	47.5°	0.0	0.0	0.0	4.3	6.4	17.0	30.9	56.4	120.3	536.7
0.0	50°	0.0	0.0	0.0	5.3	7.5	17.0	31.9	54.3	132.1	825.4
0.0	52.5°	0.0	0.0	0.0	4.3	6.4	19.2	35.1	53.2	143.8	1073.5
0.0	55°	0.0	0.0	0.0	1.1	3.2	24.5	38.3	53.2	161.9	1135.3
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	27.7	43.7	56.4	191.7	1110.8
0.0	58°	0.0	0.0	0.0	0.0	0.0	27.7	44.7	56.4	193.8	1089.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	27.7	49.0	62.8	208.7	970.2
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	23.4	58.6	78.8	217.3	762.5
0.0	65°	0.0	0.0	0.0	0.0	0.0	19.2	69.2	86.3	223.6	607.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	18.1	71.4	87.3	226.8	483.5
0.0	70°	0.0	0.0	0.0	0.0	0.0	19.2	70.3	93.7	237.5	393.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	21.3	63.9	103.3	237.5	348.2
0.0	75°	0.0	0.0	0.0	0.0	0.0	22.4	59.6	116.1	216.2	301.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	21.3	58.6	135.3	192.8	248.1
0.0	80°	2.1	3.2	3.2	2.1	2.1	18.1	57.5	137.4	164.0	170.4
1.1	82.5°	6.4	8.5	7.5	5.3	5.3	16.0	51.1	115.0	85.2	73.5
6.4	85°	11.7	13.8	13.8	11.7	11.7	14.9	31.9	41.5	28.8	23.4
11.7	87.5°	16.0	18.1	18.1	16.0	16.0	14.9	13.8	12.8	11.7	11.7
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: SP1-2407-184-11

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-840-U-5WQ

Data in this report applies to families of products including GSS-SB1A-840-U-5WQ

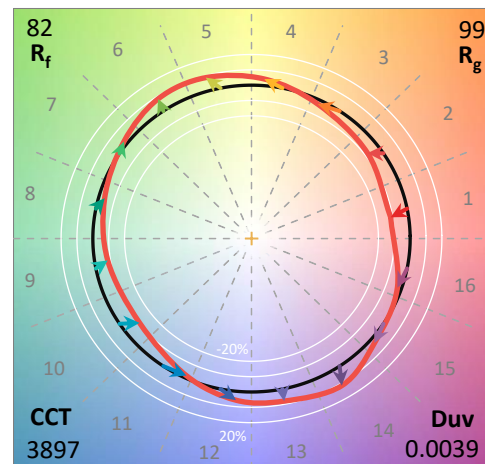
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-11
 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-840-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI
 4000K CCT 26 LEDS

Spectral Parameters

CCT (K): 3897
 CIE u' : 0.2249
 CIE v' : 0.5084
 Duv: 0.0039
 CIE x: 0.3882
 CIE y: 0.3900
 CIE z: 0.2218
 Peak Wavelength (nm): 445
 Dominant Wavelength (nm): 577
 Purity: 33.54925
 R_f: 81.8
 R_g: 98.6

CRI (Ra): 80.2
 R1: 78.9
 R2: 83.5
 R3: 88.3
 R4: 82.1
 R5: 78.8
 R6: 78.4
 R7: 85.8
 R8: 65.8
 R9: 6.7
 R10: 61.9
 R11: 81.9
 R12: 58.9
 R13: 79.2
 R14: 93.2
 R15: 71.9



Test Conditions

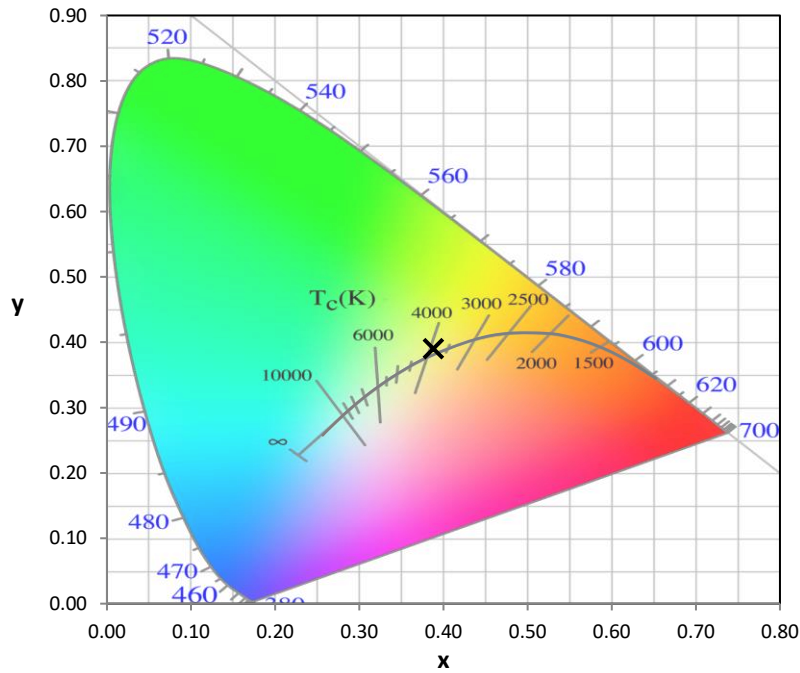
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

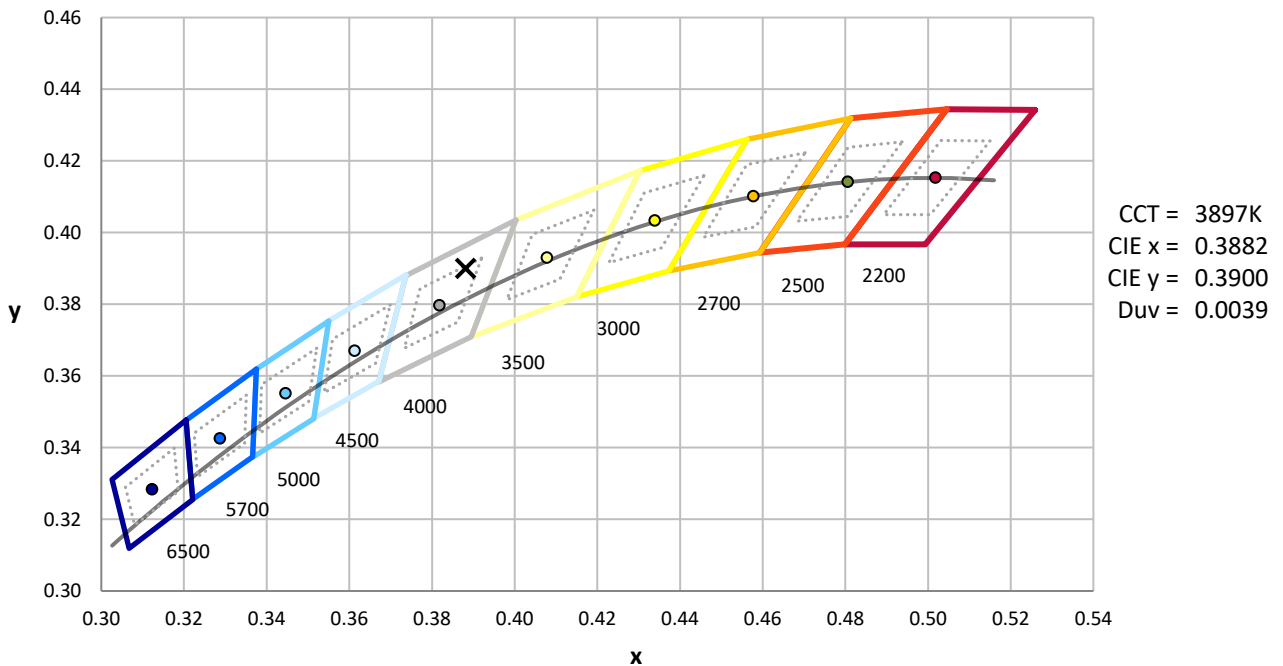
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2407-184-11

CIE 1931 Chromaticity Diagram



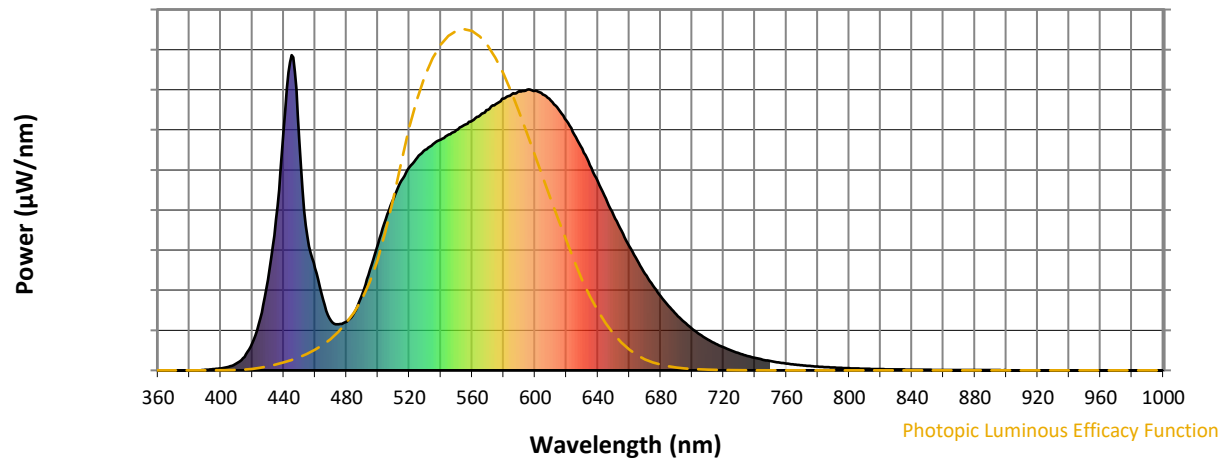
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

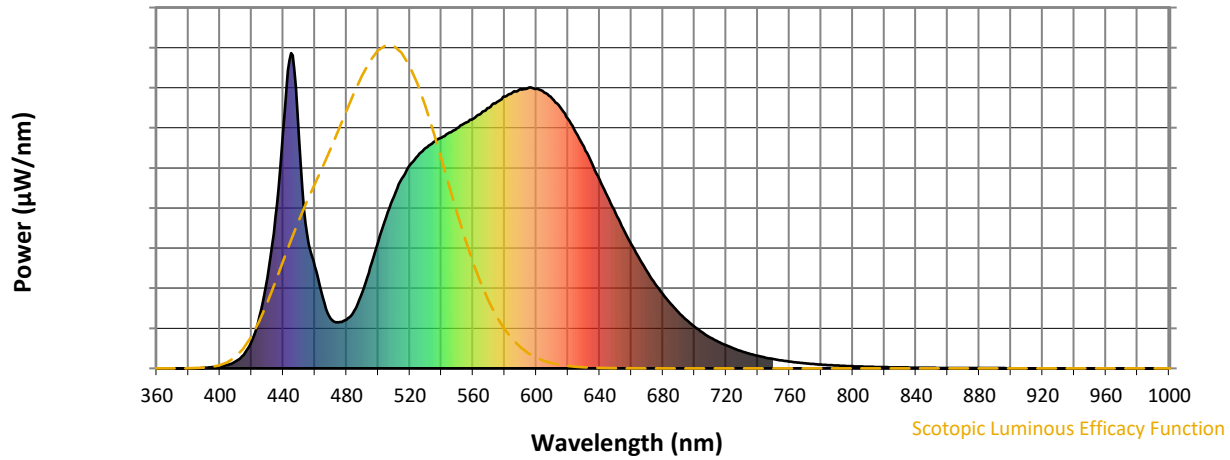


Photopic Lumens: NR

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

Scotopic Flux vs. Wavelength



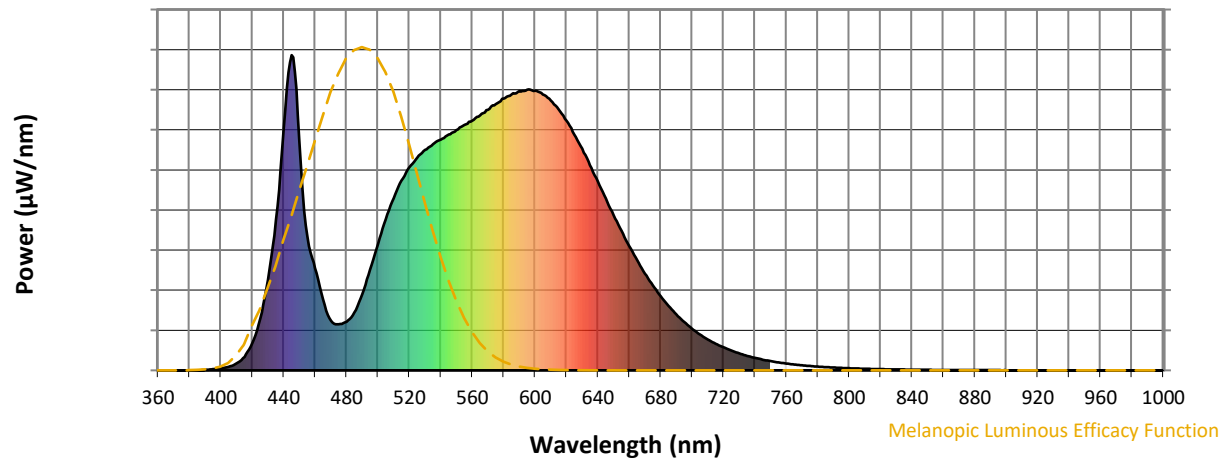
Scotopic Lumens: NR

S/P: 1.57

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	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

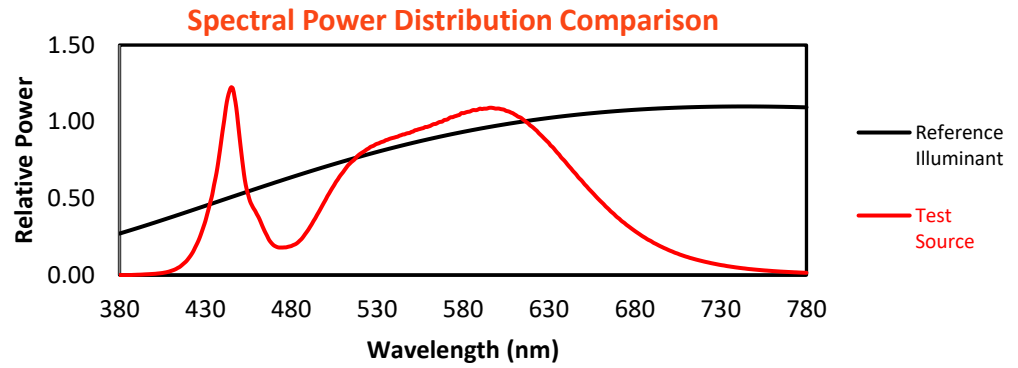
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	NR	750	29	NR	880	1	NR
365	0	NR	495	320	NR	625	748	NR	755	25	NR	885	1	NR
370	0	NR	500	401	NR	630	703	NR	760	22	NR	890	1	NR
375	0	NR	505	479	NR	635	651	NR	765	19	NR	895	1	NR
380	0	NR	510	546	NR	640	599	NR	770	16	NR	900	1	NR
385	0	NR	515	602	NR	645	545	NR	775	14	NR	905	0	NR
390	2	NR	520	645	NR	650	493	NR	780	12	NR	910	0	NR
395	4	NR	525	674	NR	655	443	NR	785	10	NR	915	0	NR
400	6	NR	530	699	NR	660	394	NR	790	9	NR	920	0	NR
405	11	NR	535	718	NR	665	349	NR	795	8	NR	925	0	NR
410	22	NR	540	732	NR	670	307	NR	800	7	NR	930	0	NR
415	43	NR	545	749	NR	675	269	NR	805	6	NR	935	0	NR
420	86	NR	550	762	NR	680	235	NR	810	5	NR	940	0	NR
425	164	NR	555	778	NR	685	204	NR	815	5	NR	945	0	NR
430	288	NR	560	792	NR	690	178	NR	820	4	NR	950	0	NR
435	478	NR	565	809	NR	695	153	NR	825	3	NR	955	0	NR
440	766	NR	570	827	NR	700	132	NR	830	3	NR	960	0	NR
445	1000	NR	575	845	NR	705	114	NR	835	3	NR	965	0	NR
450	726	NR	580	862	NR	710	98	NR	840	2	NR	970	0	NR
455	425	NR	585	875	NR	715	84	NR	845	2	NR	975	0	NR
460	324	NR	590	887	NR	720	73	NR	850	2	NR	980	0	NR
465	225	NR	595	890	NR	725	63	NR	855	1	NR	985	0	NR
470	157	NR	600	887	NR	730	54	NR	860	1	NR	990	0	NR
475	147	NR	605	875	NR	735	46	NR	865	1	NR	995	0	NR
480	154	NR	610	856	NR	740	40	NR	870	1	NR	1000	0	NR
485	184	NR	615	828	NR	745	34	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-11

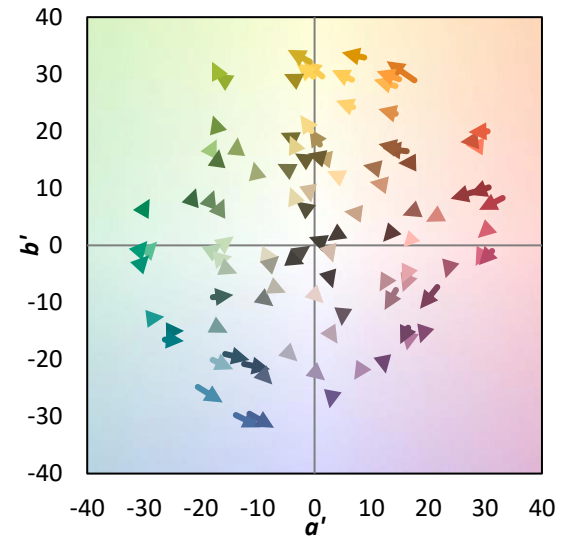
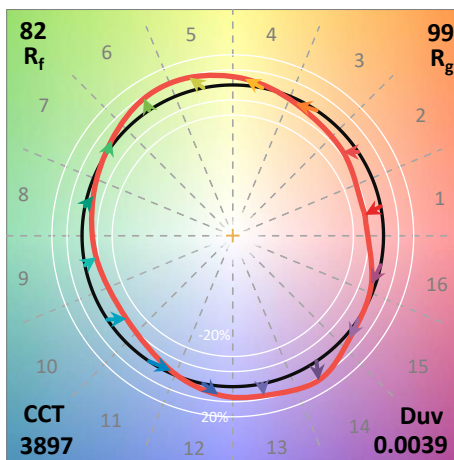
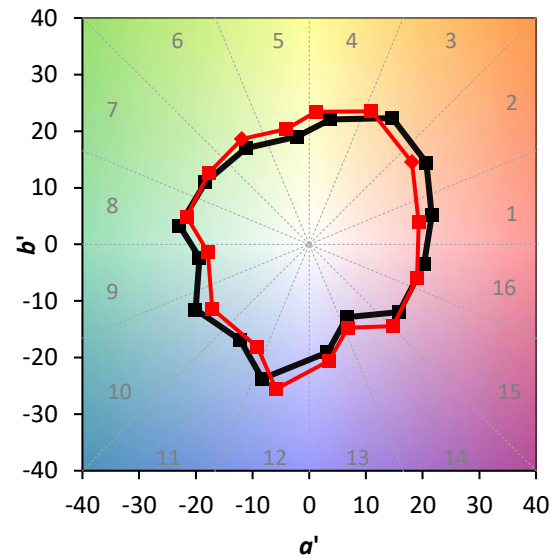
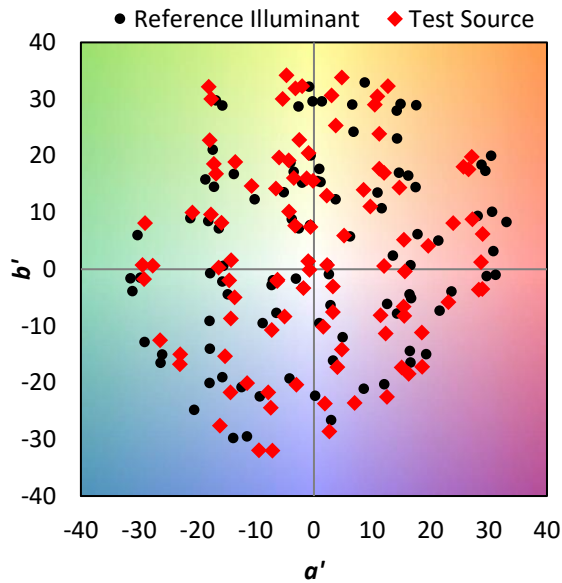
TM-30-18

Summary

$R_f = 81.8$
 $R_g = 98.6$
 $CIE R_a = 80.2$
 $R_9 = 6.7$

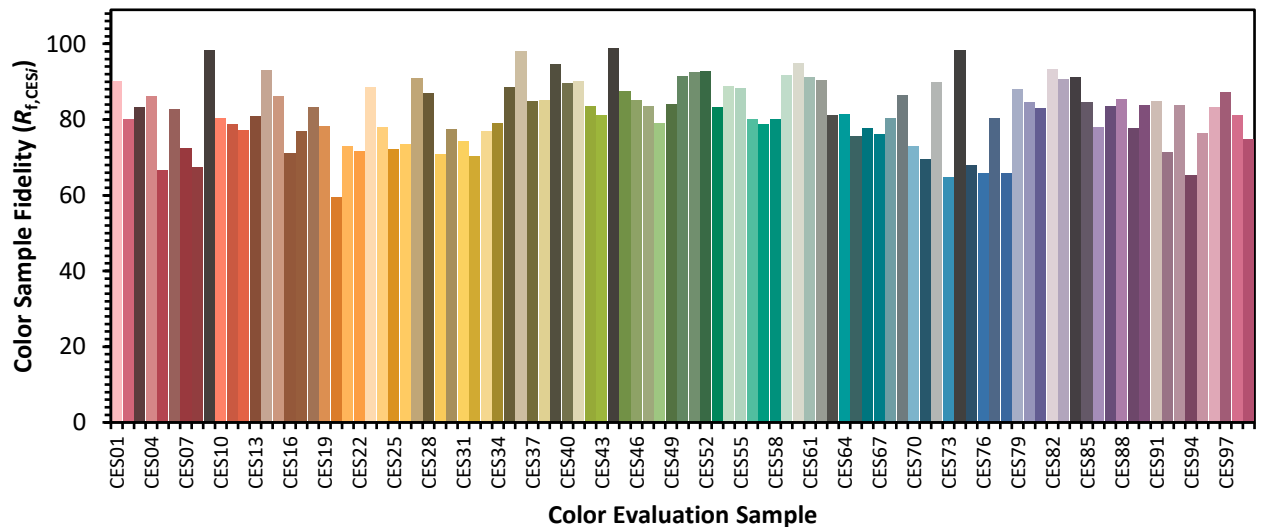


Color Vector Graphics

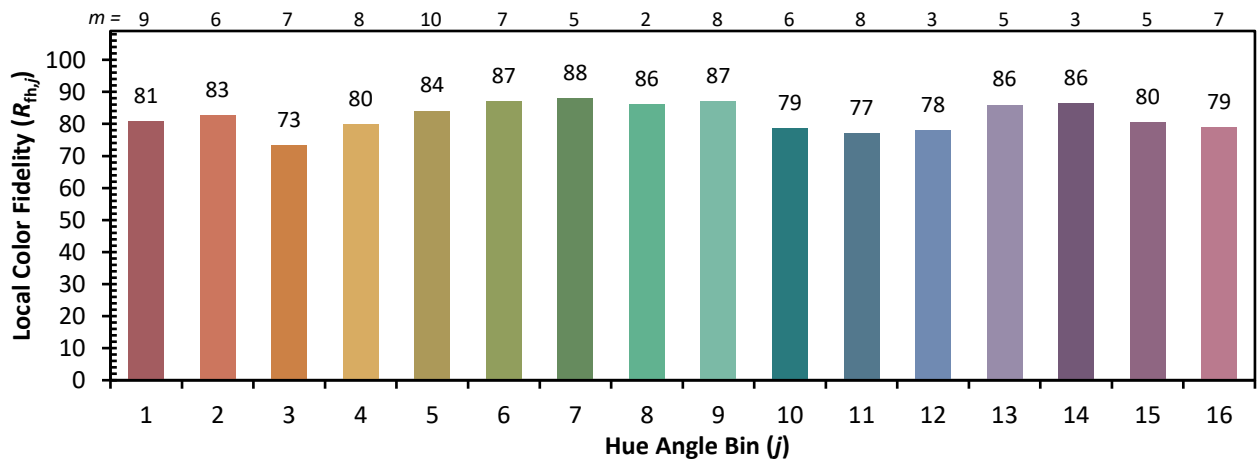
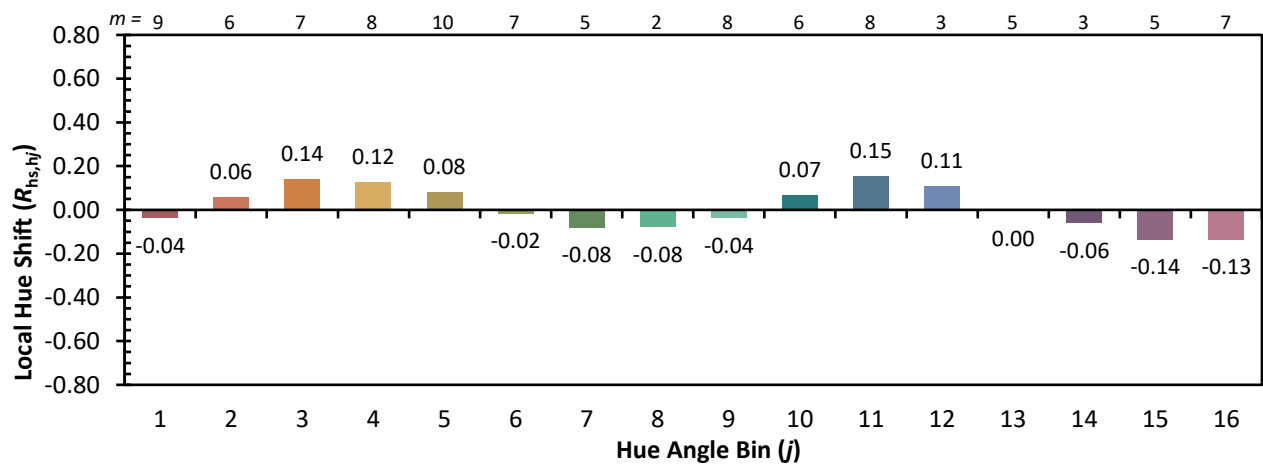
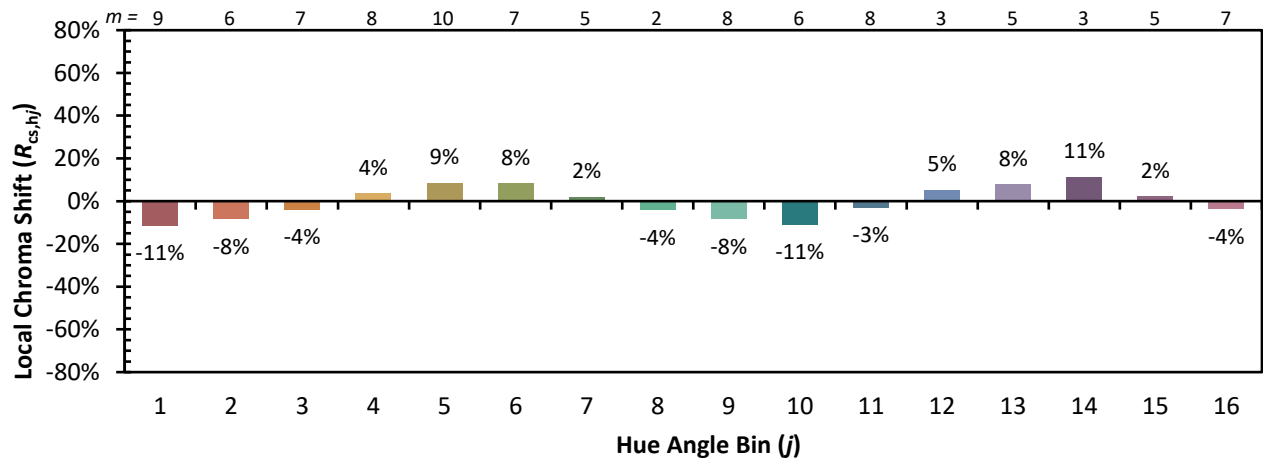


Individual Sample Fidelity Index ($R_{f,i}$)

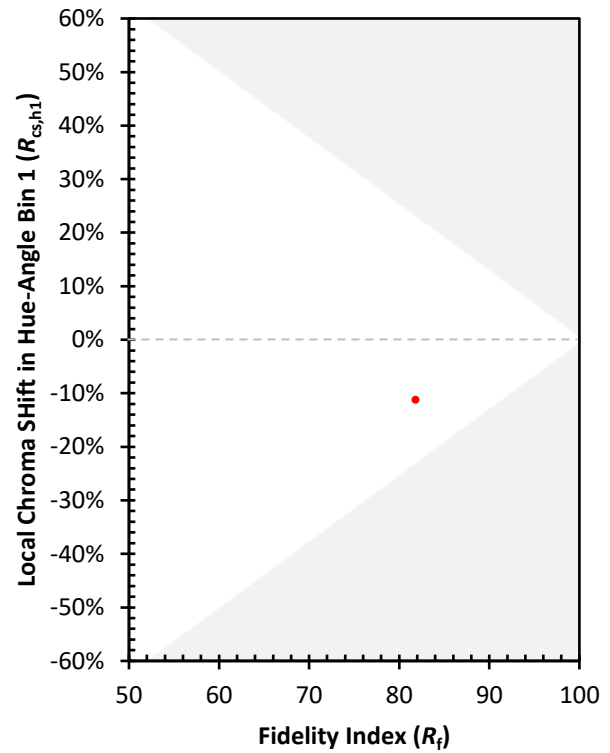
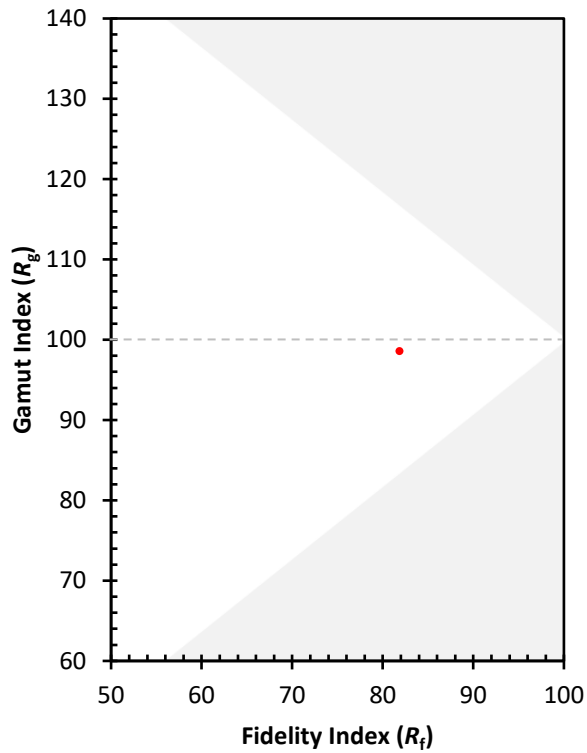
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 93
CES08 = 40	CES33 = 77	CES58 = 80	CES83 = 91
CES09 = 29	CES34 = 79	CES59 = 92	CES84 = 91
CES10 = 74	CES35 = 88	CES60 = 95	CES85 = 84
CES11 = 57	CES36 = 98	CES61 = 91	CES86 = 78
CES12 = 63	CES37 = 85	CES62 = 90	CES87 = 84
CES13 = 42	CES38 = 85	CES63 = 81	CES88 = 85
CES14 = 74	CES39 = 95	CES64 = 81	CES89 = 78
CES15 = 71	CES40 = 90	CES65 = 76	CES90 = 84
CES16 = 47	CES41 = 90	CES66 = 78	CES91 = 85
CES17 = 49	CES42 = 84	CES67 = 76	CES92 = 71
CES18 = 56	CES43 = 81	CES68 = 80	CES93 = 84
CES19 = 71	CES44 = 99	CES69 = 86	CES94 = 65
CES20 = 65	CES45 = 87	CES70 = 73	CES95 = 77
CES21 = 86	CES46 = 85	CES71 = 70	CES96 = 83
CES22 = 78	CES47 = 84	CES72 = 90	CES97 = 87
CES23 = 91	CES48 = 79	CES73 = 65	CES98 = 81
CES24 = 90	CES49 = 84	CES74 = 98	CES99 = 75
CES25 = 71	CES50 = 91	CES75 = 68	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)