

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: P1049854

Luminaire Tested: **GALN-SA9B-840-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049854
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 9xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (126) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32938.8 lumens
Efficiency: N/A
Efficacy: 105.3 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): 312.7
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

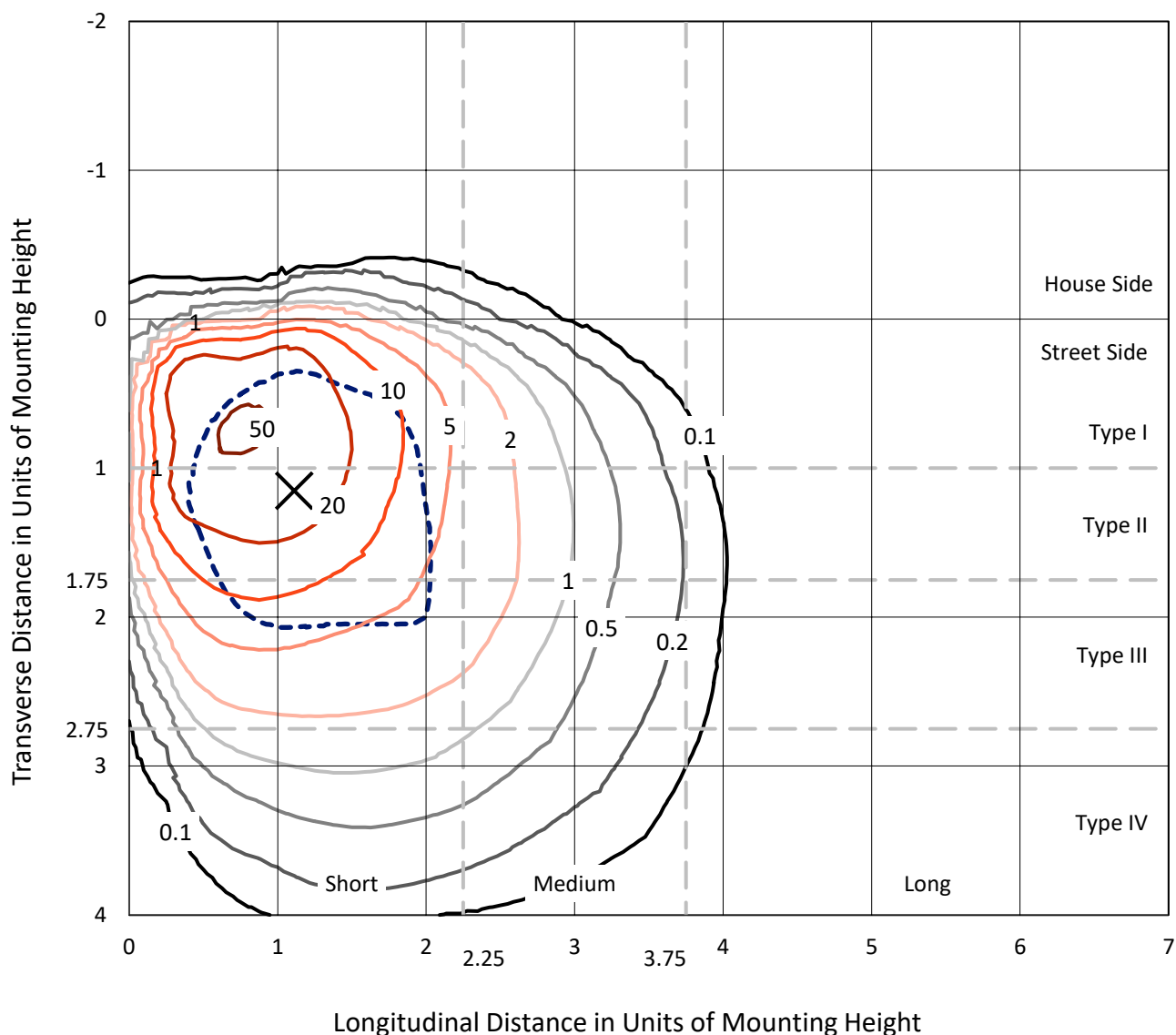
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

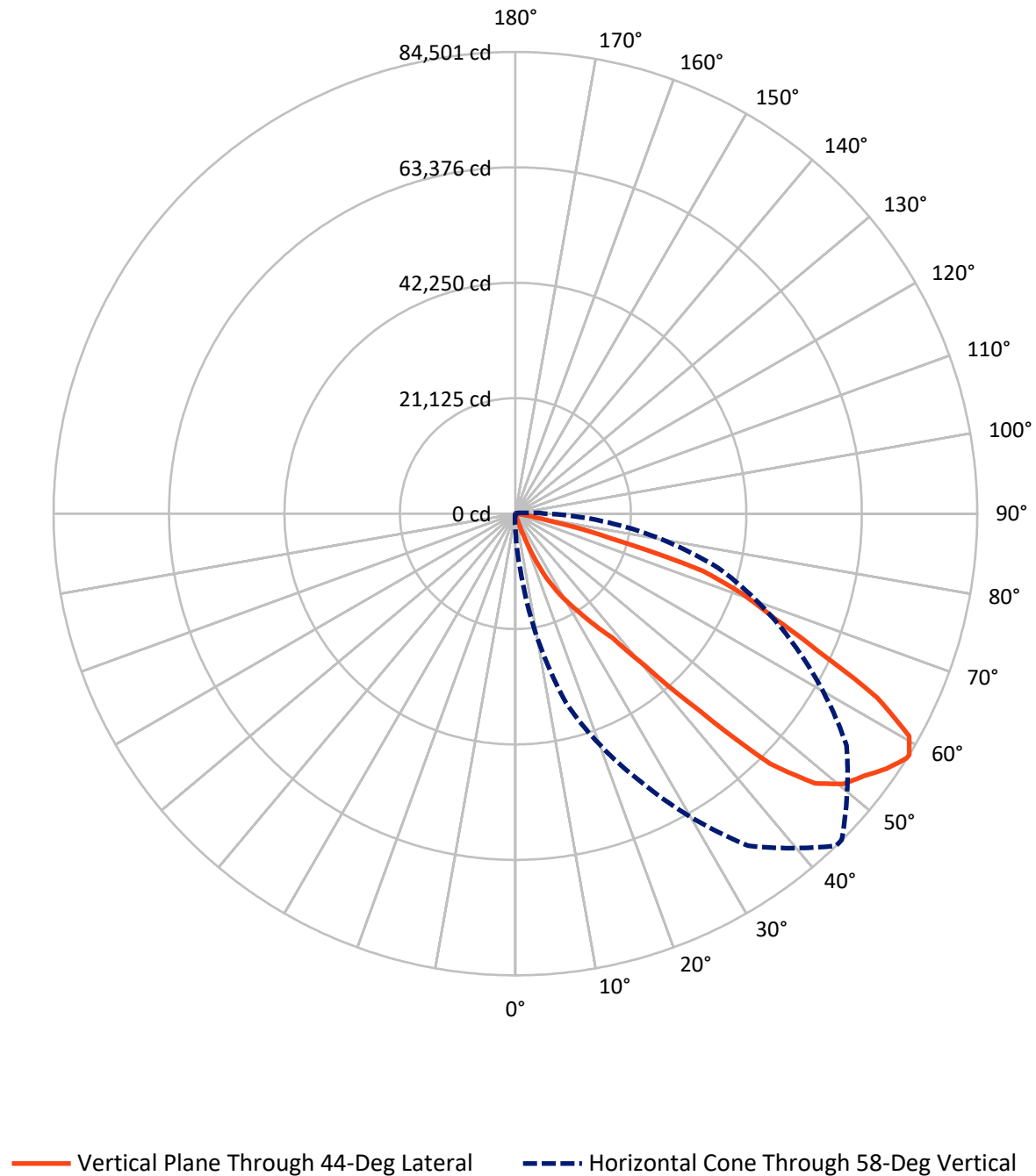


Based on 20 foot mounting height. Maximum calculated value = 57.3 fc

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	224.9	0.0	224.9
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	32713.9	0.0	32713.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	32938.8	0.0	32938.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	0.0
10°-20°	72.2	0.2
20°-30°	780.3	2.4
30°-40°	2307.7	7.0
40°-50°	6878.1	20.9
50°-60°	10914.0	33.1
60°-70°	9103.5	27.6
70°-80°	2807.7	8.5
80°-90°	62.4	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°	32938.8	100.0
0°-180°	32938.8	100.0



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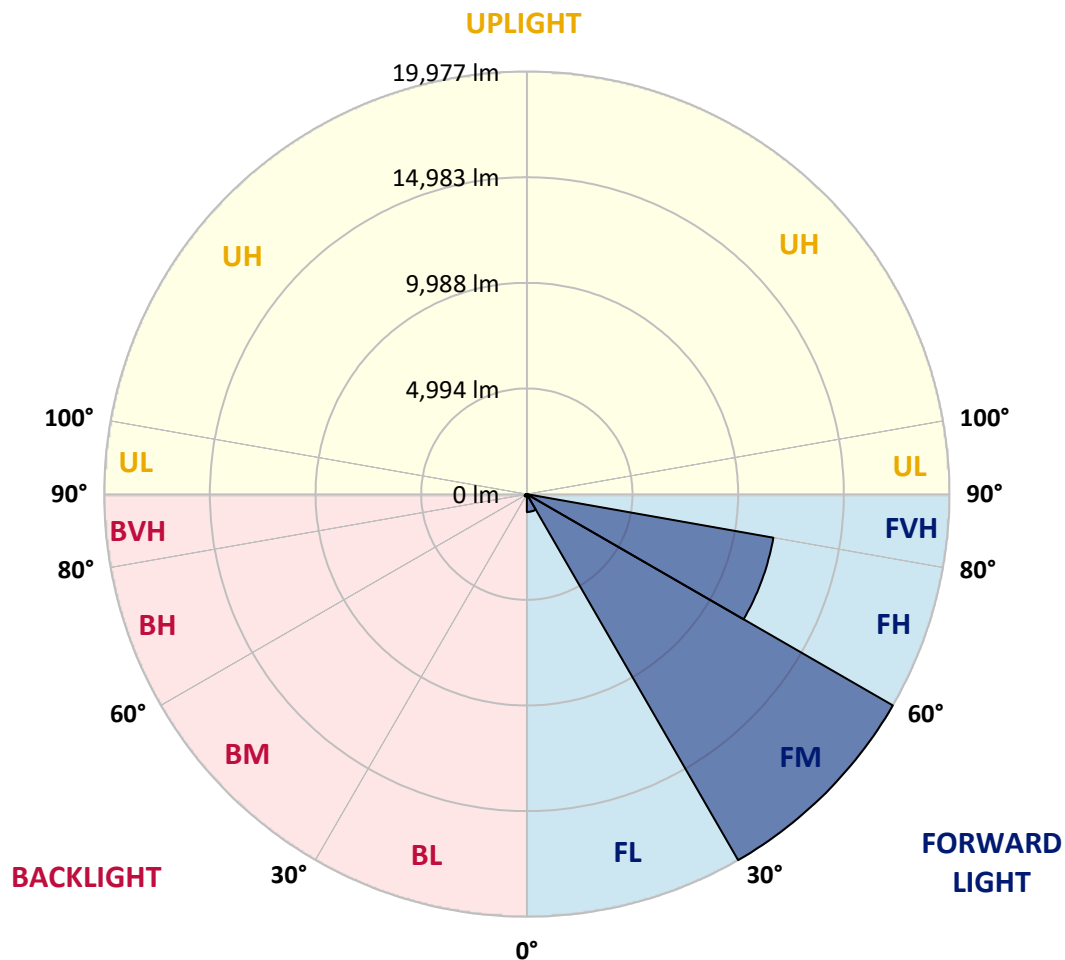
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	843.4	2.6			
FM	(30°-60°)	19976.7	60.6			
FH	(60°-80°)	11834.4	35.9			G4/12000
FVH	(80°-90°)	59.3	0.2			G1/100
BL	(0°-30°)	22.0	0.1	B0/110		
BM	(30°-60°)	123.1	0.4	B0/220		
BH	(60°-80°)	76.8	0.2	B0/110		G0/110
BVH	(80°-90°)	3.0	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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	186.6	186.6	179.2	169.2	159.2	149.3	146.8	141.8	139.3	136.9
5°	194.1	194.1	191.6	184.1	174.2	166.7	166.7	159.2	154.3	149.3
7.5°	199.1	201.5	206.5	204.0	199.1	191.6	191.6	186.6	179.2	166.7
10°	206.5	214.0	223.9	228.9	231.4	231.4	228.9	226.4	214.0	196.6
12.5°	214.0	228.9	253.8	278.7	293.6	313.5	311.0	306.1	273.7	236.4
15°	228.9	251.3	303.6	375.7	487.7	557.4	584.7	559.9	452.9	318.5
17.5°	246.3	283.7	440.4	786.3	1288.9	1527.8	1672.1	1555.2	1030.1	604.6
20°	263.8	345.9	818.6	2037.9	3344.2	4125.5	4342.0	4003.6	2570.4	1152.1
22.5°	293.6	485.2	1659.7	4212.6	7206.0	8377.9	8599.4	7517.0	4854.6	2274.3
25°	355.8	704.2	2861.5	6865.1	10754.2	12732.4	12640.3	11222.0	7875.3	3632.8
27.5°	445.4	1025.2	4327.1	9753.9	14153.1	15897.4	16106.4	14352.2	10497.9	5342.3
30°	574.8	1420.8	5899.6	12068.0	16877.8	18763.9	18798.7	16984.8	12844.3	6842.7
32.5°	699.2	1794.0	7275.6	14304.9	19562.6	21630.3	21784.6	19552.6	14596.1	8405.3
35°	793.8	2037.9	8669.0	16270.6	22269.8	25118.8	25108.9	22458.9	16671.2	9801.2
37.5°	801.2	2281.7	9930.6	18281.1	25698.6	28888.5	29204.5	26283.3	19179.4	11528.0
40°	783.8	2555.4	11528.0	21416.3	31876.9	36771.3	37050.0	33367.4	24210.6	14484.1
42.5°	803.7	3030.7	14120.8	27206.5	42136.0	49165.3	49702.7	45831.0	33459.4	20515.6
45°	908.2	3924.0	19552.6	36893.2	56759.4	65328.9	65149.7	59573.6	44221.1	29697.2
47.5°	1254.1	6111.1	27604.6	46321.2	66105.2	73736.7	73891.0	67075.6	50501.4	36756.4
50°	1928.4	9350.8	34370.1	51305.1	70123.7	77780.1	77635.8	69760.5	52887.7	40232.4
52.5°	2508.2	11694.8	37764.1	53054.4	70638.8	79778.1	79768.2	70467.1	53258.4	40531.0
55°	2652.5	11871.4	37791.5	53148.9	71793.4	82393.3	82721.7	72206.4	53738.6	39227.2
57.5°	2595.2	10510.4	36213.9	53696.3	73848.7	84416.2	84433.6	73891.0	54957.9	38428.5
58°	2545.5	10296.4	35895.4	54007.4	74202.0	84500.8	84458.5	73968.1	55950.7	38398.6
60°	2266.8	8940.3	34653.8	54801.1	73677.0	82764.0	82368.4	72283.5	55803.9	38092.6
62.5°	1781.6	6974.6	33432.1	53883.0	68048.5	74356.3	74520.5	63995.2	50872.2	36308.5
65°	1418.3	5197.9	30884.1	47264.2	56035.3	61061.6	61673.7	52039.2	42461.9	30744.8
67.5°	1129.7	3757.3	25907.6	37629.7	44340.5	50961.8	51407.2	43691.1	32897.1	23556.2
70°	918.2	2540.5	17883.0	27520.0	36572.2	44017.1	44044.4	36296.0	24554.0	15434.6
72.5°	813.7	1759.2	10381.0	20070.2	29654.9	35868.1	35144.0	29453.4	18870.9	9141.8
75°	704.2	1167.0	5091.0	12269.5	17980.1	18102.0	18378.2	13663.0	9432.9	4347.0
77.5°	579.8	828.6	2005.5	3351.7	5392.0	6902.4	7158.7	5424.4	3137.7	1069.9
80°	398.1	393.1	539.9	1027.6	1542.7	1933.4	1804.0	1395.9	821.1	410.6
82.5°	171.7	186.6	243.8	293.6	238.9	231.4	221.5	141.8	109.5	84.6
85°	54.7	49.8	52.3	52.3	42.3	32.3	32.3	14.9	0.0	0.0
87.5°	27.4	22.4	22.4	19.9	12.4	5.0	2.5	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°
144.3	0°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
134.4	2.5°	131.9	131.9	126.9	121.9	119.4	114.5	112.0	109.5	107.0	104.5
144.3	5°	139.3	136.9	129.4	121.9	114.5	107.0	102.0	97.0	92.1	89.6
159.2	7.5°	151.8	146.8	131.9	119.4	109.5	99.5	94.6	87.1	82.1	74.6
176.7	10°	166.7	156.8	136.9	121.9	107.0	94.6	87.1	79.6	72.2	62.2
201.5	12.5°	186.6	169.2	144.3	119.4	102.0	87.1	79.6	69.7	62.2	54.7
233.9	15°	204.0	181.6	146.8	119.4	97.0	79.6	69.7	59.7	52.3	42.3
293.6	17.5°	228.9	191.6	144.3	112.0	89.6	69.7	59.7	52.3	39.8	24.9
435.4	20°	271.2	199.1	139.3	104.5	77.1	57.2	44.8	34.8	17.4	5.0
654.4	22.5°	338.4	219.0	134.4	94.6	67.2	44.8	29.9	12.4	0.0	0.0
995.3	25°	467.8	253.8	134.4	89.6	59.7	32.3	10.0	0.0	0.0	0.0
1413.3	27.5°	622.1	301.1	134.4	77.1	47.3	17.4	0.0	0.0	0.0	0.0
1925.9	30°	778.8	353.3	134.4	67.2	37.3	2.5	0.0	0.0	0.0	0.0
2371.3	32.5°	928.1	398.1	136.9	57.2	24.9	0.0	0.0	0.0	0.0	0.0
2988.4	35°	1079.9	405.6	134.4	49.8	14.9	0.0	0.0	0.0	0.0	0.0
3744.8	37.5°	1274.0	390.7	126.9	44.8	7.5	0.0	0.0	0.0	0.0	0.0
4926.7	40°	1567.6	398.1	119.4	42.3	2.5	0.0	0.0	0.0	0.0	0.0
7034.3	42.5°	2110.0	430.5	109.5	42.3	0.0	0.0	0.0	0.0	0.0	0.0
11204.6	45°	3647.8	577.3	99.5	44.8	0.0	0.0	0.0	0.0	0.0	0.0
16820.5	47.5°	6034.0	1037.6	97.0	44.8	0.0	0.0	0.0	0.0	0.0	0.0
20261.8	50°	7701.1	1306.3	102.0	47.3	0.0	0.0	0.0	0.0	0.0	0.0
20692.3	52.5°	7688.7	1455.6	107.0	49.8	10.0	0.0	0.0	0.0	0.0	0.0
19072.4	55°	6835.2	1483.0	114.5	54.7	32.3	0.0	0.0	0.0	0.0	0.0
16390.1	57.5°	5713.0	1353.6	131.9	67.2	59.7	0.0	0.0	0.0	0.0	0.0
15969.6	58°	5514.0	1293.9	136.9	69.7	64.7	0.0	0.0	0.0	0.0	0.0
13852.1	60°	4518.7	1055.0	174.2	87.1	87.1	0.0	0.0	0.0	0.0	0.0
11356.4	62.5°	3120.3	920.7	199.1	112.0	89.6	0.0	0.0	0.0	0.0	0.0
8372.9	65°	2207.1	831.1	216.5	119.4	72.2	0.0	0.0	0.0	0.0	0.0
5949.4	67.5°	1649.7	766.4	238.9	121.9	37.3	0.0	0.0	0.0	0.0	0.0
3732.4	70°	1264.0	719.1	293.6	129.4	10.0	0.0	0.0	0.0	0.0	0.0
2224.5	72.5°	1030.1	664.4	355.8	134.4	0.0	0.0	0.0	0.0	0.0	0.0
1333.7	75°	853.5	599.7	343.4	146.8	0.0	0.0	0.0	0.0	0.0	0.0
711.6	77.5°	567.3	465.3	313.5	146.8	0.0	0.0	0.0	0.0	0.0	0.0
253.8	80°	199.1	184.1	243.8	129.4	0.0	0.0	0.0	0.0	0.0	0.0
52.3	82.5°	29.9	24.9	34.8	44.8	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°
144.3	0°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
102.0	2.5°	102.0	102.0	99.5	102.0	102.0	107.0	119.4	136.9	156.8	164.2
87.1	5°	84.6	82.1	79.6	79.6	79.6	87.1	97.0	116.9	139.3	149.3
72.2	7.5°	69.7	67.2	64.7	62.2	62.2	67.2	79.6	102.0	124.4	134.4
59.7	10°	57.2	52.3	49.8	47.3	47.3	52.3	64.7	87.1	112.0	121.9
49.8	12.5°	47.3	39.8	34.8	32.3	29.9	37.3	49.8	69.7	97.0	109.5
37.3	15°	32.3	24.9	17.4	14.9	12.4	19.9	32.3	54.7	82.1	97.0
19.9	17.5°	17.4	7.5	2.5	0.0	0.0	5.0	14.9	39.8	67.2	79.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	49.8	62.2
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	29.9	42.3
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	22.4
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0
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	7.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	19.9
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°
144.3	0°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
171.7	2.5°	176.7	174.2	169.2	164.2	164.2	164.2	171.7	179.2	186.6	186.6
154.3	5°	164.2	164.2	161.7	156.8	156.8	159.2	169.2	181.6	191.6	194.1
141.8	7.5°	151.8	156.8	151.8	149.3	151.8	154.3	164.2	179.2	194.1	199.1
131.9	10°	144.3	146.8	146.8	144.3	144.3	149.3	159.2	179.2	199.1	206.5
119.4	12.5°	134.4	139.3	136.9	136.9	136.9	141.8	154.3	176.7	204.0	214.0
107.0	15°	124.4	131.9	131.9	129.4	129.4	131.9	149.3	174.2	211.5	228.9
92.1	17.5°	114.5	121.9	124.4	119.4	119.4	124.4	141.8	174.2	216.5	246.3
74.6	20°	94.6	107.0	114.5	107.0	107.0	112.0	129.4	164.2	219.0	263.8
54.7	22.5°	74.6	87.1	97.0	94.6	94.6	97.0	119.4	156.8	221.5	293.6
32.3	25°	54.7	67.2	74.6	79.6	79.6	87.1	109.5	151.8	231.4	355.8
14.9	27.5°	32.3	47.3	57.2	62.2	64.7	74.6	102.0	146.8	248.8	445.4
0.0	30°	14.9	27.4	39.8	49.8	49.8	67.2	94.6	141.8	271.2	574.8
0.0	32.5°	0.0	12.4	19.9	34.8	37.3	54.7	87.1	136.9	303.6	699.2
0.0	35°	0.0	0.0	10.0	27.4	27.4	44.8	79.6	131.9	353.3	793.8
0.0	37.5°	0.0	0.0	0.0	19.9	22.4	39.8	77.1	129.4	363.3	801.2
0.0	40°	0.0	0.0	0.0	14.9	17.4	37.3	77.1	131.9	328.4	783.8
0.0	42.5°	0.0	0.0	0.0	10.0	12.4	37.3	77.1	136.9	296.1	803.7
0.0	45°	0.0	0.0	0.0	7.5	10.0	39.8	74.6	134.4	278.7	908.2
0.0	47.5°	0.0	0.0	0.0	10.0	14.9	39.8	72.2	131.9	281.2	1254.1
0.0	50°	0.0	0.0	0.0	12.4	17.4	39.8	74.6	126.9	308.5	1928.4
0.0	52.5°	0.0	0.0	0.0	10.0	14.9	44.8	82.1	124.4	335.9	2508.2
0.0	55°	0.0	0.0	0.0	2.5	7.5	57.2	89.6	124.4	378.2	2652.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	64.7	102.0	131.9	447.9	2595.2
0.0	58°	0.0	0.0	0.0	0.0	0.0	64.7	104.5	131.9	452.9	2545.5
0.0	60°	0.0	0.0	0.0	0.0	0.0	64.7	114.5	146.8	487.7	2266.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	54.7	136.9	184.1	507.6	1781.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	44.8	161.7	201.5	522.5	1418.3
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	42.3	166.7	204.0	530.0	1129.7
0.0	70°	0.0	0.0	0.0	0.0	0.0	44.8	164.2	219.0	554.9	918.2
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	49.8	149.3	241.4	554.9	813.7
0.0	75°	0.0	0.0	0.0	0.0	0.0	52.3	139.3	271.2	505.1	704.2
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	49.8	136.9	316.0	450.4	579.8
0.0	80°	5.0	7.5	7.5	5.0	5.0	42.3	134.4	321.0	383.2	398.1
2.5	82.5°	14.9	19.9	17.4	12.4	12.4	37.3	119.4	268.7	199.1	171.7
14.9	85°	27.4	32.3	32.3	27.4	27.4	34.8	74.6	97.0	67.2	54.7
27.4	87.5°	37.3	42.3	42.3	37.3	37.3	34.8	32.3	29.9	27.4	27.4
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

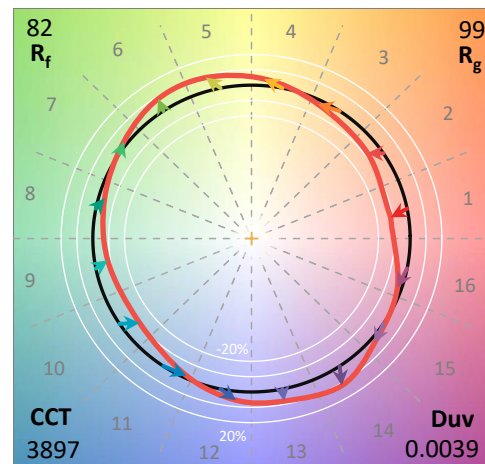
Test Information

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

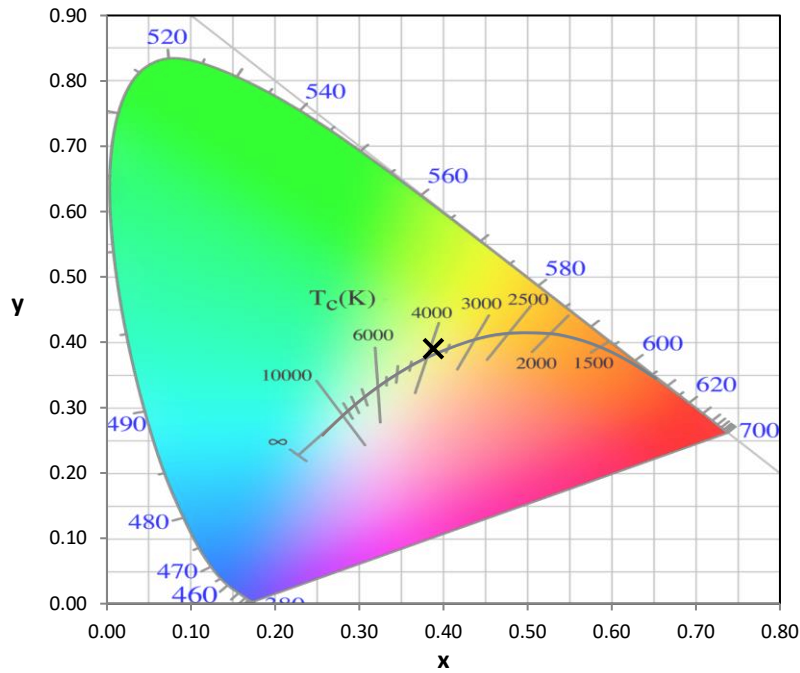
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

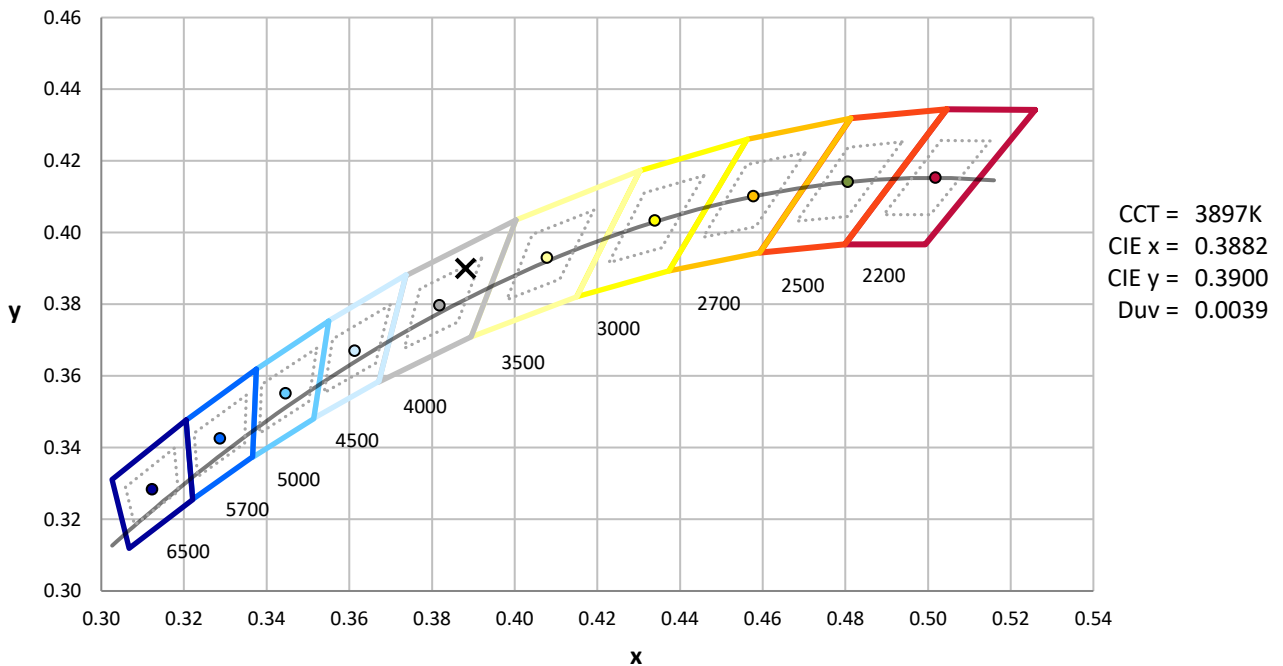
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



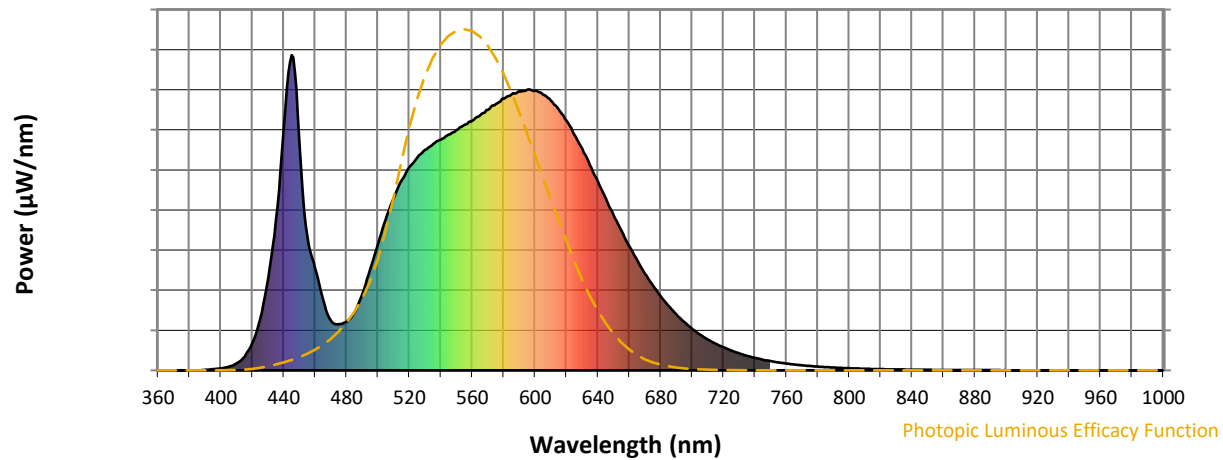
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

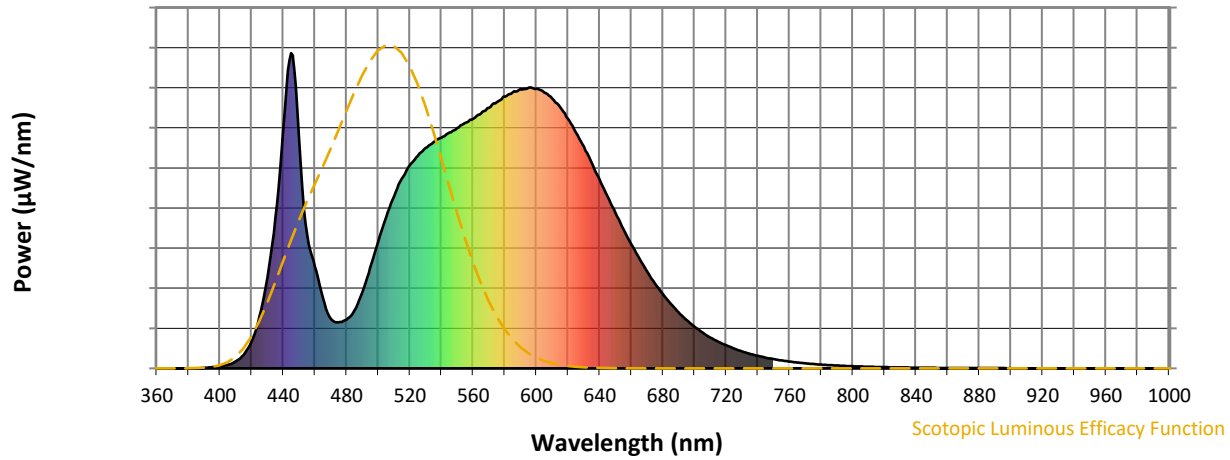


Photopic Lumens: NR

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



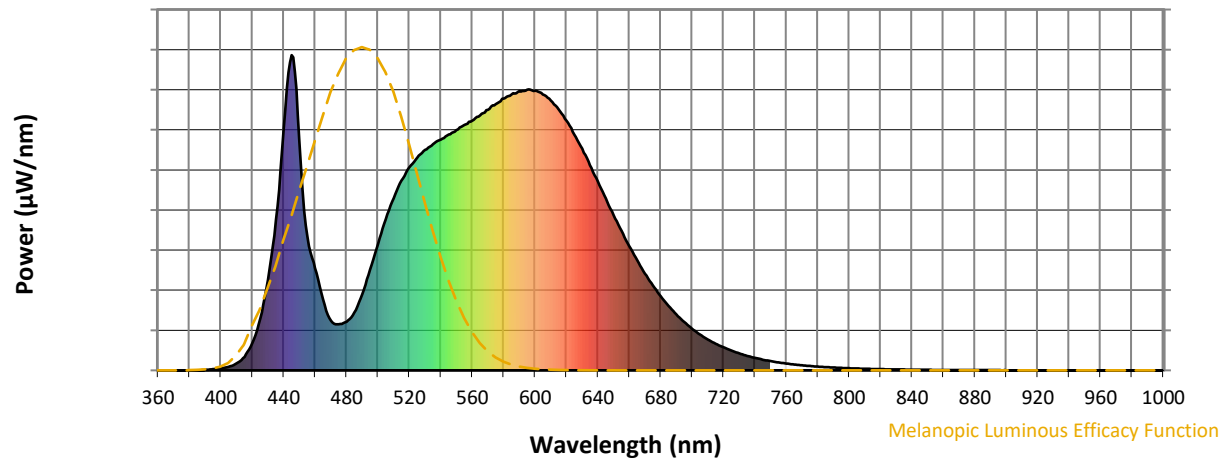
Scotopic Lumens: NR

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

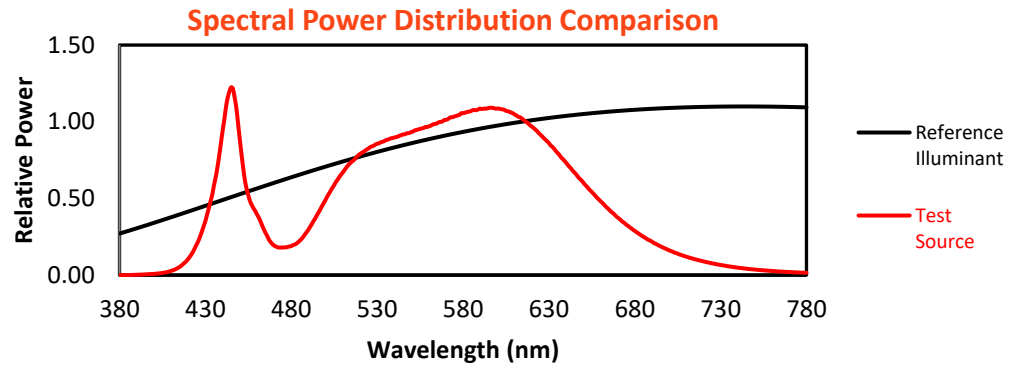
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792	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

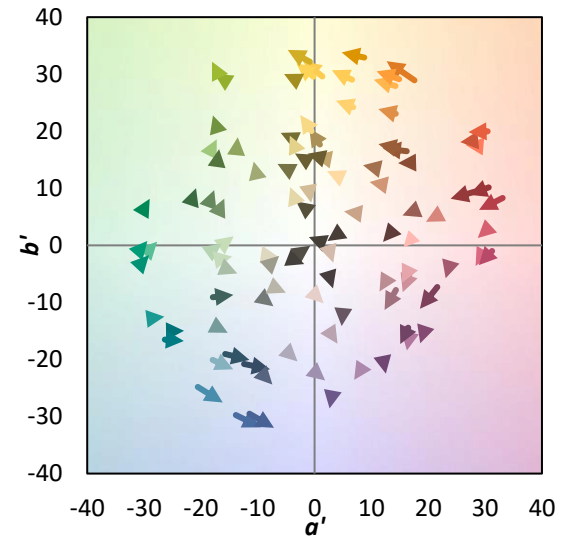
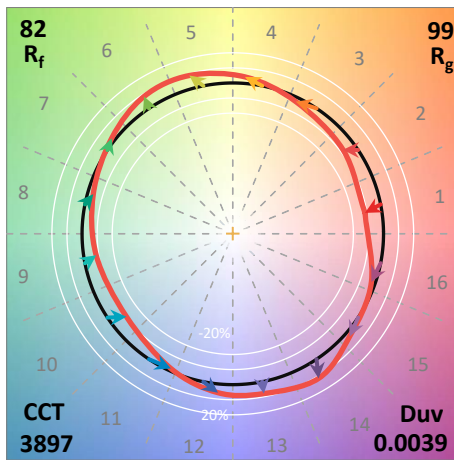
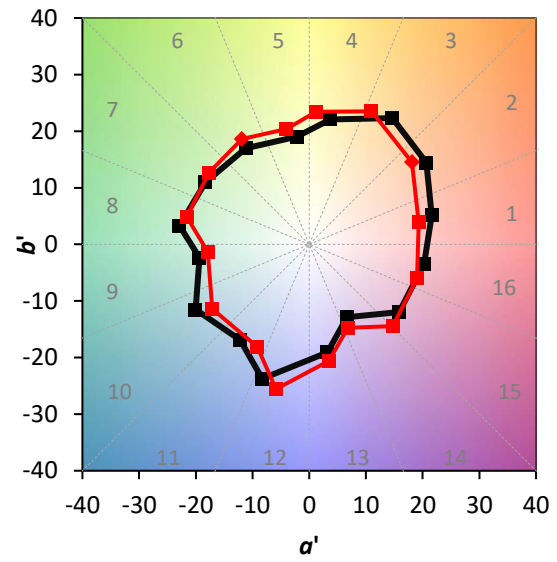
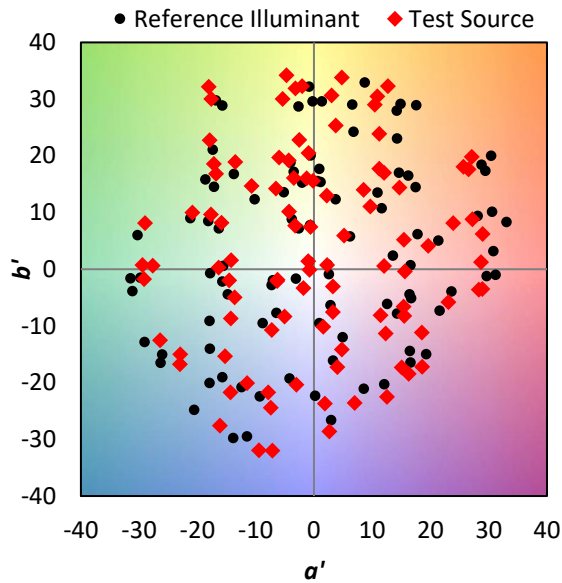
TM-30-18

Summary

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

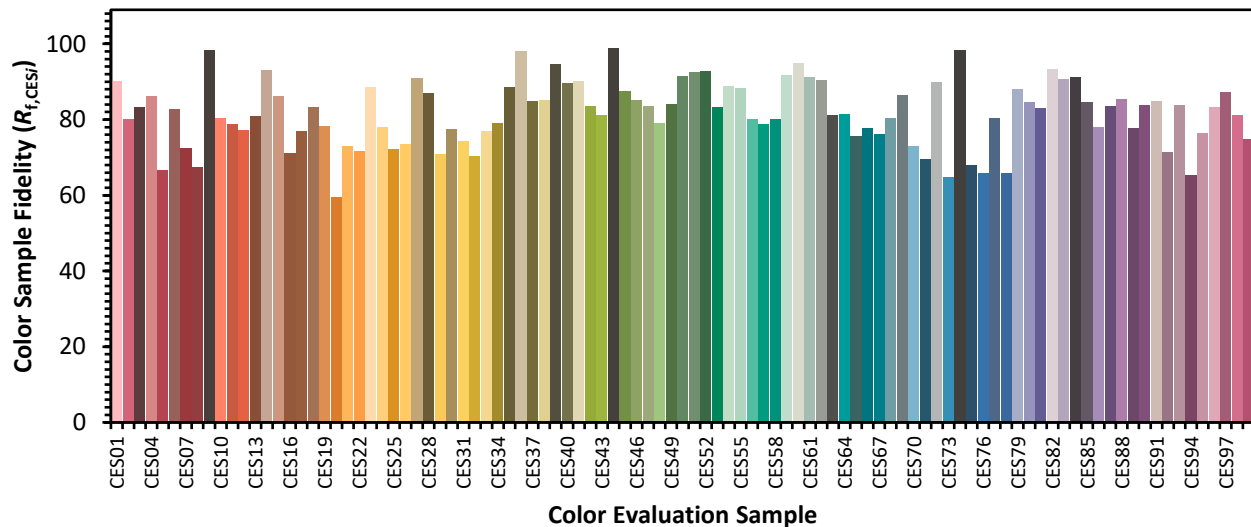


Color Vector Graphics

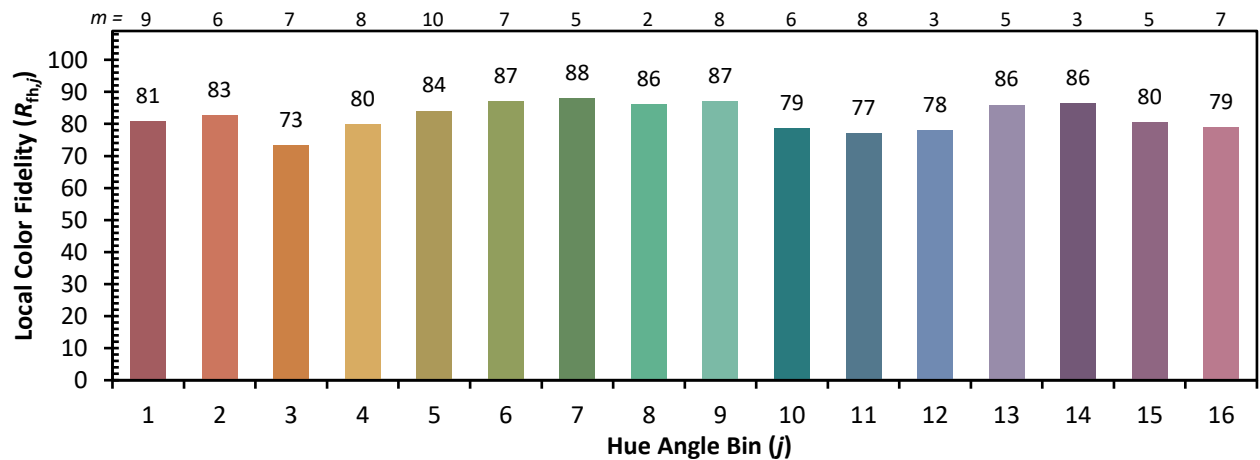
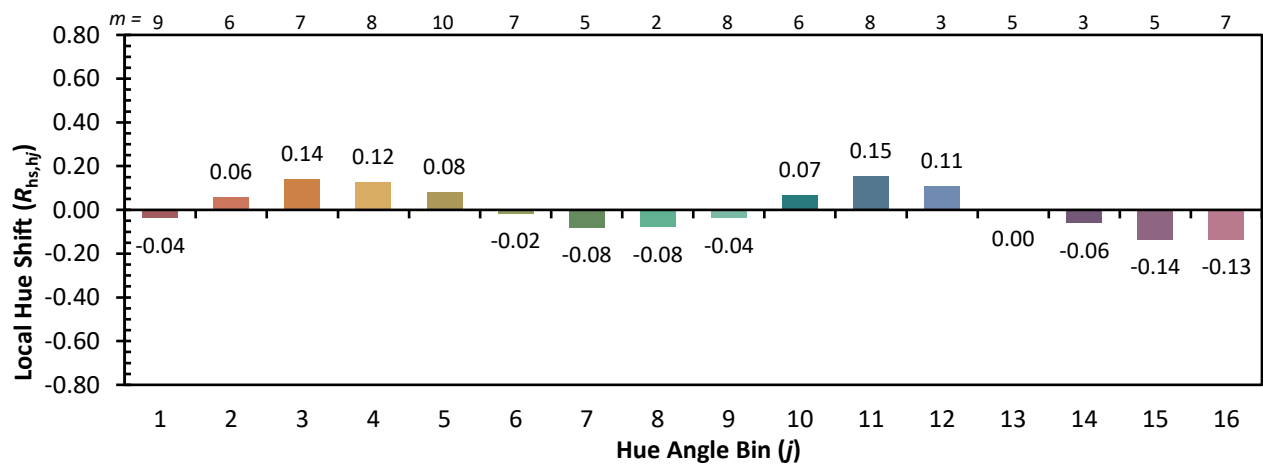
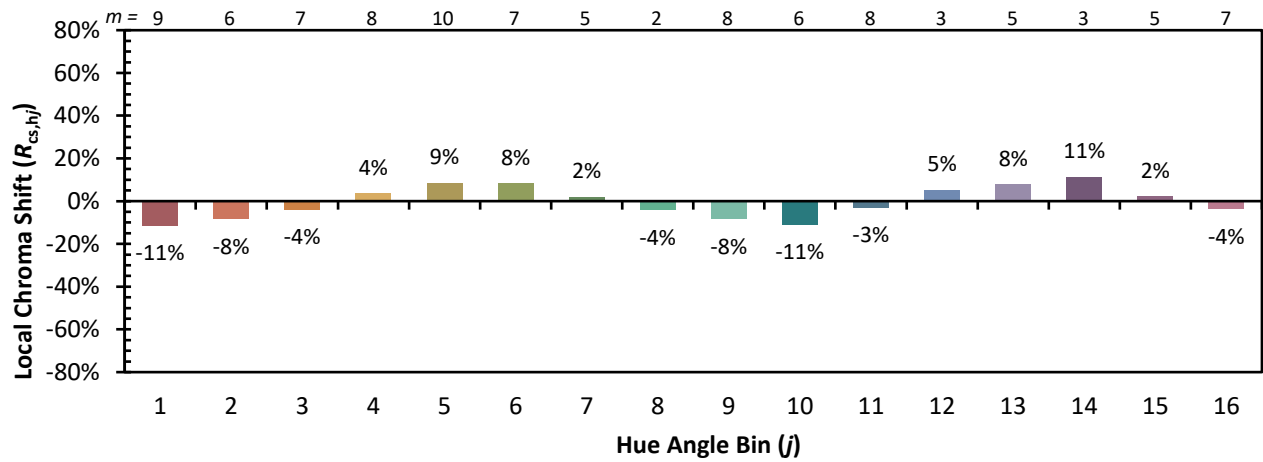


Individual Sample Fidelity Index ($R_{f,i}$)

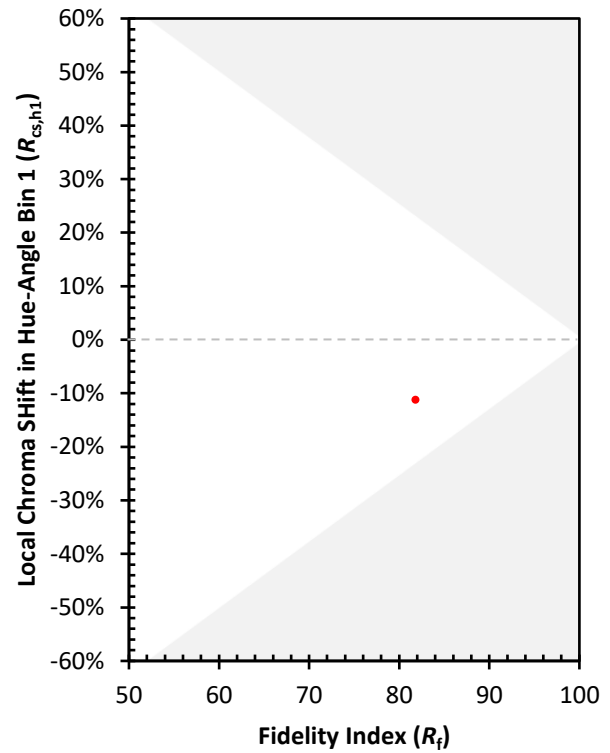
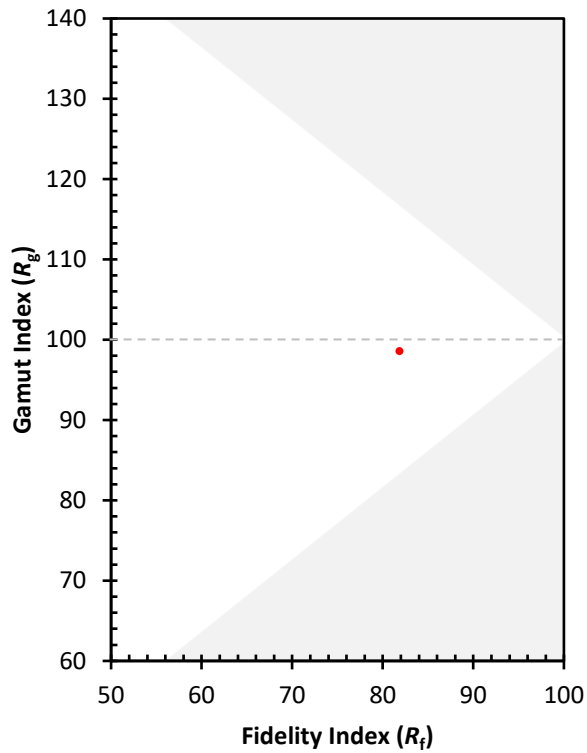
CES01 = 85	CES26 = 73	CES51 = 93	CES76 = 66
CES02 = 61	CES27 = 91	CES52 = 93	CES77 = 80
CES03 = 31	CES28 = 87	CES53 = 83	CES78 = 66
CES04 = 69	CES29 = 71	CES54 = 89	CES79 = 88
CES05 = 48	CES30 = 77	CES55 = 88	CES80 = 85
CES06 = 50	CES31 = 74	CES56 = 80	CES81 = 83
CES07 = 41	CES32 = 70	CES57 = 79	CES82 = 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)