

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: P1049839

Luminaire Tested: **GALN-SA5C-840-U-LBC**

Issue Date: 07/10/2025



Test Information

Test Method: LM-79-08
Report Number: P1049839
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 5xLight Square PACKAGE
80CRI 4000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (70) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23010.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 236
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

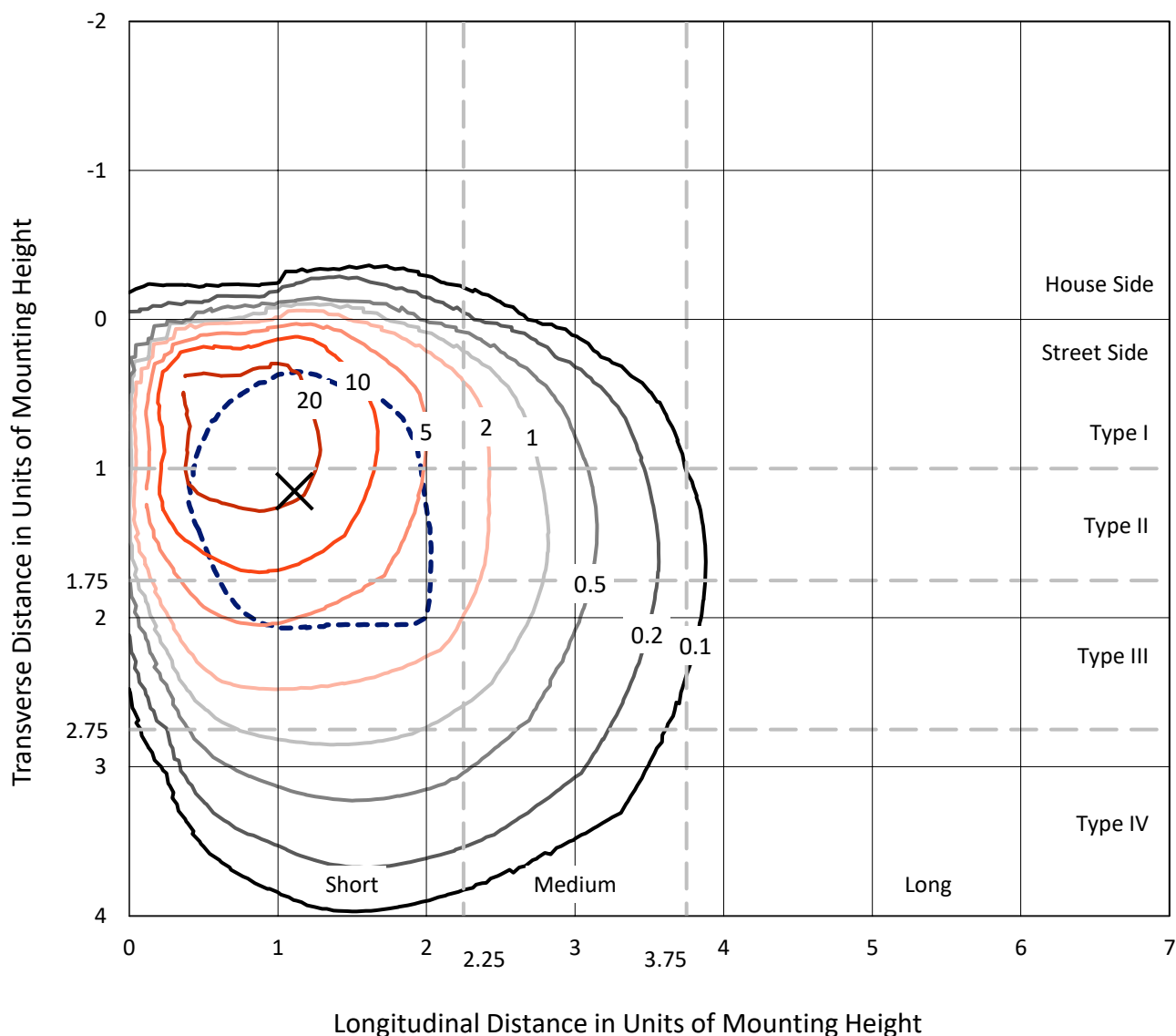
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

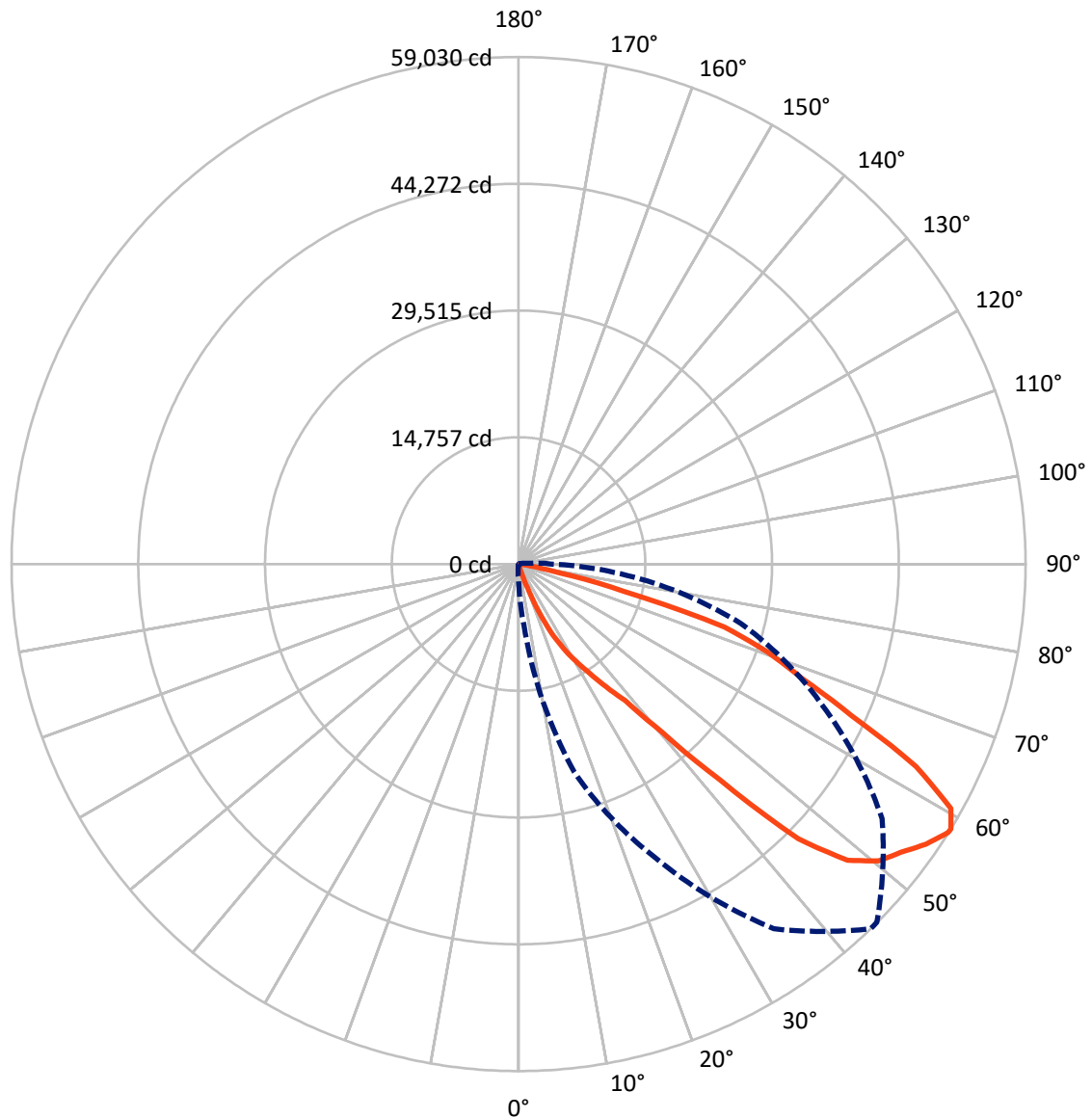


Based on 20 foot mounting height. Maximum calculated value = 40.1 fc

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	157.1	0.0	157.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22852.9	0.0	22852.9
	% Fixture	99.3	0.0	99.3
Total	Lumens	23010.1	0.0	23010.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	0.0
10°-20°	50.5	0.2
20°-30°	545.1	2.4
30°-40°	1612.1	7.0
40°-50°	4804.9	20.9
50°-60°	7624.2	33.1
60°-70°	6359.5	27.6
70°-80°	1961.4	8.5
80°-90°	43.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23010.1	100.0
0°-180°	23010.1	100.0



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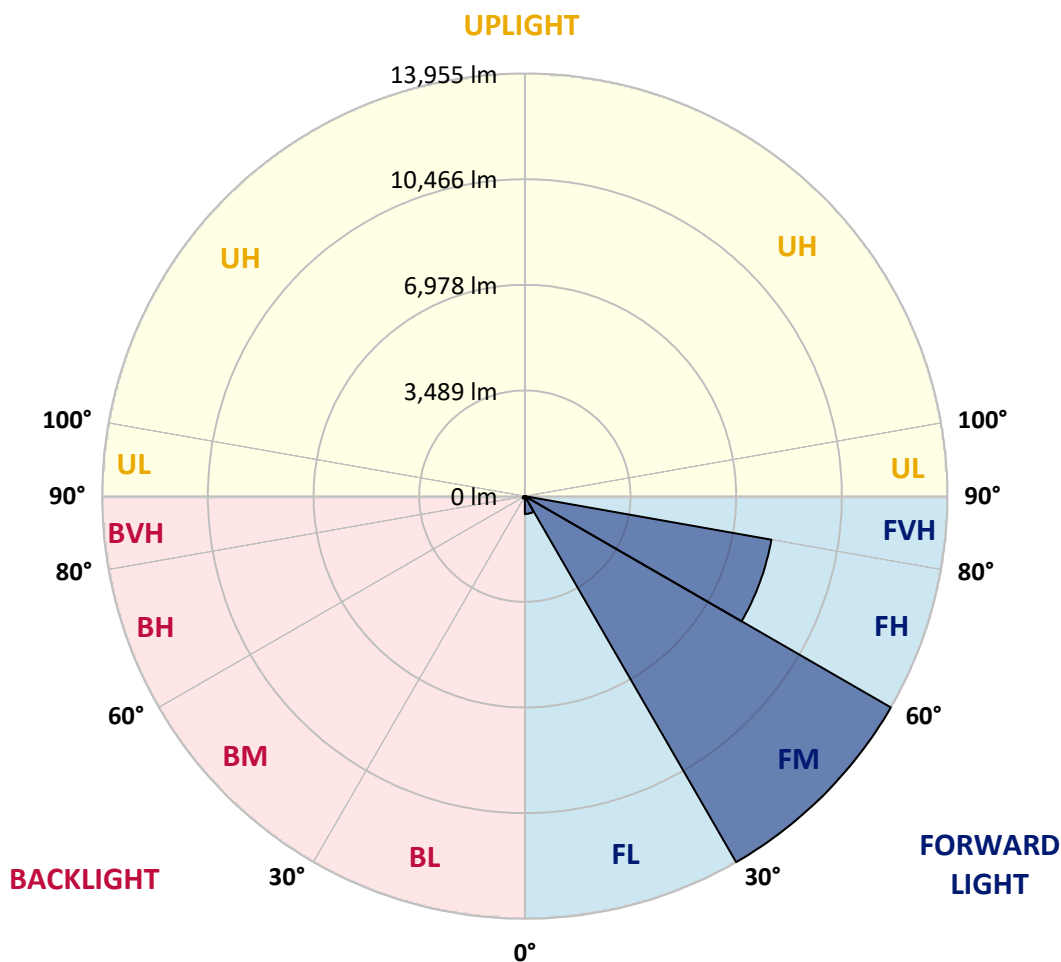
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.2	2.6			
FM	(30°-60°)	13955.1	60.6			
FH	(60°-80°)	8267.2	35.9			G4/12000
FVH	(80°-90°)	41.5	0.2			G1/100
BL	(0°-30°)	15.4	0.1	B0/110		
BM	(30°-60°)	86.0	0.4	B0/220		
BH	(60°-80°)	53.6	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	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°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
2.5°	130.4	130.4	125.2	118.2	111.2	104.3	102.6	99.1	97.3	95.6
5°	135.6	135.6	133.8	128.6	121.7	116.5	116.5	111.2	107.8	104.3
7.5°	139.1	140.8	144.3	142.5	139.1	133.8	133.8	130.4	125.2	116.5
10°	144.3	149.5	156.4	159.9	161.7	161.7	159.9	158.2	149.5	137.3
12.5°	149.5	159.9	177.3	194.7	205.1	219.0	217.3	213.8	191.2	165.1
15°	159.9	175.6	212.1	262.5	340.7	389.4	408.5	391.1	316.4	222.5
17.5°	172.1	198.2	307.7	549.3	900.4	1067.3	1168.1	1086.4	719.6	422.4
20°	184.3	241.6	571.9	1423.6	2336.2	2882.0	3033.2	2796.8	1795.6	804.8
22.5°	205.1	339.0	1159.4	2942.8	5033.9	5852.6	6007.3	5251.1	3391.3	1588.7
25°	248.6	491.9	1998.9	4795.7	7512.6	8894.4	8830.1	7839.3	5501.4	2537.8
27.5°	311.1	716.1	3022.8	6813.8	9887.0	11105.5	11251.5	10026.0	7333.5	3731.9
30°	401.5	992.5	4121.3	8430.3	11790.3	13107.9	13132.2	11865.1	8972.7	4780.1
32.5°	488.4	1253.3	5082.5	9993.0	13665.8	15110.3	15218.1	13658.9	10196.4	5871.7
35°	554.5	1423.6	6055.9	11366.2	15557.0	17547.3	17540.3	15689.1	11646.0	6846.8
37.5°	559.7	1593.9	6937.2	12770.7	17952.3	20180.7	20401.4	18360.8	13398.2	8053.1
40°	547.5	1785.1	8053.1	14960.8	22268.3	25687.3	25882.0	23309.5	16912.8	10118.1
42.5°	561.4	2117.1	9864.4	19005.6	29434.9	34345.4	34720.8	32016.2	23373.8	14331.6
45°	634.4	2741.2	13658.9	25772.5	39650.4	45636.8	45511.7	41616.3	30891.5	20745.6
47.5°	876.1	4269.1	19283.7	32358.6	46179.1	51510.2	51618.0	46857.0	35278.8	25676.9
50°	1347.1	6532.2	24010.0	35840.2	48986.4	54334.8	54234.0	48732.6	36945.7	28105.2
52.5°	1752.1	8169.6	26380.9	37062.2	49346.2	55730.6	55723.7	49226.2	37204.7	28313.8
55°	1852.9	8293.0	26400.0	37128.3	50152.7	57557.5	57786.9	50441.2	37540.2	27402.9
57.5°	1813.0	7342.2	25298.0	37510.7	51588.5	58970.7	58982.8	51618.0	38391.9	26845.0
58°	1778.2	7192.7	25075.5	37727.9	51835.3	59029.8	59000.2	51671.9	39085.5	26824.1
60°	1583.5	6245.4	24208.1	38282.4	51468.5	57816.5	57540.1	50495.1	38982.9	26610.3
62.5°	1244.6	4872.2	23354.6	37641.0	47536.7	51943.1	52057.8	44705.1	35537.8	25364.0
65°	990.8	3631.1	21574.7	33017.4	39144.6	42655.8	43083.4	36353.0	29662.6	21477.4
67.5°	789.1	2624.7	18098.3	26287.0	30975.0	35600.4	35911.5	30521.3	22980.9	16455.7
70°	641.4	1774.7	12492.5	19224.6	25548.3	30749.0	30768.1	25355.3	17152.7	10782.1
72.5°	568.4	1228.9	7251.8	14020.4	20716.0	25056.4	24550.5	20575.2	13182.6	6386.2
75°	491.9	815.2	3556.4	8571.1	12560.3	12645.5	12838.5	9544.5	6589.6	3036.7
77.5°	405.0	578.8	1401.0	2341.4	3766.7	4821.8	5000.8	3789.3	2191.9	747.4
80°	278.1	274.6	377.2	717.9	1077.7	1350.6	1260.2	975.1	573.6	286.8
82.5°	119.9	130.4	170.3	205.1	166.9	161.7	154.7	99.1	76.5	59.1
85°	38.2	34.8	36.5	36.5	29.5	22.6	22.6	10.4	0.0	0.0
87.5°	19.1	15.6	15.6	13.9	8.7	3.5	1.7	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°
100.8	0°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
93.9	2.5°	92.1	92.1	88.6	85.2	83.4	80.0	78.2	76.5	74.7	73.0
100.8	5°	97.3	95.6	90.4	85.2	80.0	74.7	71.3	67.8	64.3	62.6
111.2	7.5°	106.0	102.6	92.1	83.4	76.5	69.5	66.1	60.8	57.4	52.1
123.4	10°	116.5	109.5	95.6	85.2	74.7	66.1	60.8	55.6	50.4	43.5
140.8	12.5°	130.4	118.2	100.8	83.4	71.3	60.8	55.6	48.7	43.5	38.2
163.4	15°	142.5	126.9	102.6	83.4	67.8	55.6	48.7	41.7	36.5	29.5
205.1	17.5°	159.9	133.8	100.8	78.2	62.6	48.7	41.7	36.5	27.8	17.4
304.2	20°	189.5	139.1	97.3	73.0	53.9	40.0	31.3	24.3	12.2	3.5
457.2	22.5°	236.4	153.0	93.9	66.1	46.9	31.3	20.9	8.7	0.0	0.0
695.3	25°	326.8	177.3	93.9	62.6	41.7	22.6	7.0	0.0	0.0	0.0
987.3	27.5°	434.6	210.3	93.9	53.9	33.0	12.2	0.0	0.0	0.0	0.0
1345.4	30°	544.1	246.8	93.9	46.9	26.1	1.7	0.0	0.0	0.0	0.0
1656.5	32.5°	648.4	278.1	95.6	40.0	17.4	0.0	0.0	0.0	0.0	0.0
2087.6	35°	754.4	283.3	93.9	34.8	10.4	0.0	0.0	0.0	0.0	0.0
2616.0	37.5°	890.0	272.9	88.6	31.3	5.2	0.0	0.0	0.0	0.0	0.0
3441.7	40°	1095.1	278.1	83.4	29.5	1.7	0.0	0.0	0.0	0.0	0.0
4913.9	42.5°	1474.0	300.7	76.5	29.5	0.0	0.0	0.0	0.0	0.0	0.0
7827.2	45°	2548.2	403.3	69.5	31.3	0.0	0.0	0.0	0.0	0.0	0.0
11750.3	47.5°	4215.2	724.8	67.8	31.3	0.0	0.0	0.0	0.0	0.0	0.0
14154.3	50°	5379.8	912.6	71.3	33.0	0.0	0.0	0.0	0.0	0.0	0.0
14455.0	52.5°	5371.1	1016.9	74.7	34.8	7.0	0.0	0.0	0.0	0.0	0.0
13323.4	55°	4774.9	1036.0	80.0	38.2	22.6	0.0	0.0	0.0	0.0	0.0
11449.6	57.5°	3990.9	945.6	92.1	46.9	41.7	0.0	0.0	0.0	0.0	0.0
11155.9	58°	3851.9	903.9	95.6	48.7	45.2	0.0	0.0	0.0	0.0	0.0
9676.6	60°	3156.6	737.0	121.7	60.8	60.8	0.0	0.0	0.0	0.0	0.0
7933.2	62.5°	2179.7	643.1	139.1	78.2	62.6	0.0	0.0	0.0	0.0	0.0
5849.1	65°	1541.8	580.6	151.2	83.4	50.4	0.0	0.0	0.0	0.0	0.0
4156.1	67.5°	1152.4	535.4	166.9	85.2	26.1	0.0	0.0	0.0	0.0	0.0
2607.3	70°	883.0	502.3	205.1	90.4	7.0	0.0	0.0	0.0	0.0	0.0
1554.0	72.5°	719.6	464.1	248.6	93.9	0.0	0.0	0.0	0.0	0.0	0.0
931.7	75°	596.2	418.9	239.9	102.6	0.0	0.0	0.0	0.0	0.0	0.0
497.1	77.5°	396.3	325.0	219.0	102.6	0.0	0.0	0.0	0.0	0.0	0.0
177.3	80°	139.1	128.6	170.3	90.4	0.0	0.0	0.0	0.0	0.0	0.0
36.5	82.5°	20.9	17.4	24.3	31.3	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°
100.8	0°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
71.3	2.5°	71.3	71.3	69.5	71.3	71.3	74.7	83.4	95.6	109.5	114.7
60.8	5°	59.1	57.4	55.6	55.6	55.6	60.8	67.8	81.7	97.3	104.3
50.4	7.5°	48.7	46.9	45.2	43.5	43.5	46.9	55.6	71.3	86.9	93.9
41.7	10°	40.0	36.5	34.8	33.0	33.0	36.5	45.2	60.8	78.2	85.2
34.8	12.5°	33.0	27.8	24.3	22.6	20.9	26.1	34.8	48.7	67.8	76.5
26.1	15°	22.6	17.4	12.2	10.4	8.7	13.9	22.6	38.2	57.4	67.8
13.9	17.5°	12.2	5.2	1.7	0.0	0.0	3.5	10.4	27.8	46.9	55.6
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	34.8	43.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.9	29.5
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	15.6
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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	5.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9
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°
100.8	0°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
119.9	2.5°	123.4	121.7	118.2	114.7	114.7	114.7	119.9	125.2	130.4	130.4
107.8	5°	114.7	114.7	113.0	109.5	109.5	111.2	118.2	126.9	133.8	135.6
99.1	7.5°	106.0	109.5	106.0	104.3	106.0	107.8	114.7	125.2	135.6	139.1
92.1	10°	100.8	102.6	102.6	100.8	100.8	104.3	111.2	125.2	139.1	144.3
83.4	12.5°	93.9	97.3	95.6	95.6	95.6	99.1	107.8	123.4	142.5	149.5
74.7	15°	86.9	92.1	92.1	90.4	90.4	92.1	104.3	121.7	147.7	159.9
64.3	17.5°	80.0	85.2	86.9	83.4	83.4	86.9	99.1	121.7	151.2	172.1
52.1	20°	66.1	74.7	80.0	74.7	74.7	78.2	90.4	114.7	153.0	184.3
38.2	22.5°	52.1	60.8	67.8	66.1	66.1	67.8	83.4	109.5	154.7	205.1
22.6	25°	38.2	46.9	52.1	55.6	55.6	60.8	76.5	106.0	161.7	248.6
10.4	27.5°	22.6	33.0	40.0	43.5	45.2	52.1	71.3	102.6	173.8	311.1
0.0	30°	10.4	19.1	27.8	34.8	34.8	46.9	66.1	99.1	189.5	401.5
0.0	32.5°	0.0	8.7	13.9	24.3	26.1	38.2	60.8	95.6	212.1	488.4
0.0	35°	0.0	0.0	7.0	19.1	19.1	31.3	55.6	92.1	246.8	554.5
0.0	37.5°	0.0	0.0	0.0	13.9	15.6	27.8	53.9	90.4	253.8	559.7
0.0	40°	0.0	0.0	0.0	10.4	12.2	26.1	53.9	92.1	229.4	547.5
0.0	42.5°	0.0	0.0	0.0	7.0	8.7	26.1	53.9	95.6	206.8	561.4
0.0	45°	0.0	0.0	0.0	5.2	7.0	27.8	52.1	93.9	194.7	634.4
0.0	47.5°	0.0	0.0	0.0	7.0	10.4	27.8	50.4	92.1	196.4	876.1
0.0	50°	0.0	0.0	0.0	8.7	12.2	27.8	52.1	88.6	215.5	1347.1
0.0	52.5°	0.0	0.0	0.0	7.0	10.4	31.3	57.4	86.9	234.7	1752.1
0.0	55°	0.0	0.0	0.0	1.7	5.2	40.0	62.6	86.9	264.2	1852.9
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	45.2	71.3	92.1	312.9	1813.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	45.2	73.0	92.1	316.4	1778.2
0.0	60°	0.0	0.0	0.0	0.0	0.0	45.2	80.0	102.6	340.7	1583.5
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	38.2	95.6	128.6	354.6	1244.6
0.0	65°	0.0	0.0	0.0	0.0	0.0	31.3	113.0	140.8	365.0	990.8
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	29.5	116.5	142.5	370.2	789.1
0.0	70°	0.0	0.0	0.0	0.0	0.0	31.3	114.7	153.0	387.6	641.4
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	34.8	104.3	168.6	387.6	568.4
0.0	75°	0.0	0.0	0.0	0.0	0.0	36.5	97.3	189.5	352.9	491.9
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	34.8	95.6	220.8	314.6	405.0
0.0	80°	3.5	5.2	5.2	3.5	3.5	29.5	93.9	224.2	267.7	278.1
1.7	82.5°	10.4	13.9	12.2	8.7	8.7	26.1	83.4	187.7	139.1	119.9
10.4	85°	19.1	22.6	22.6	19.1	19.1	24.3	52.1	67.8	46.9	38.2
19.1	87.5°	26.1	29.5	29.5	26.1	26.1	24.3	22.6	20.9	19.1	19.1
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: SP1-2407-184-11

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

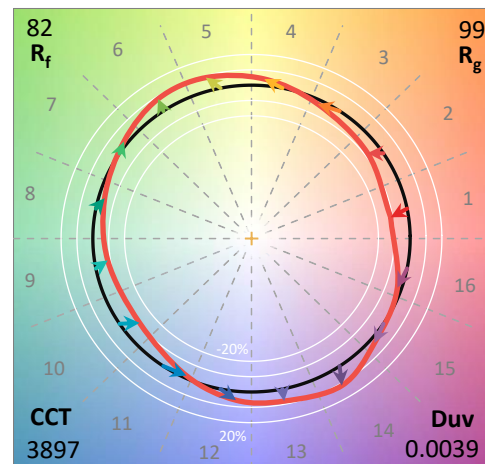
Test Information

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

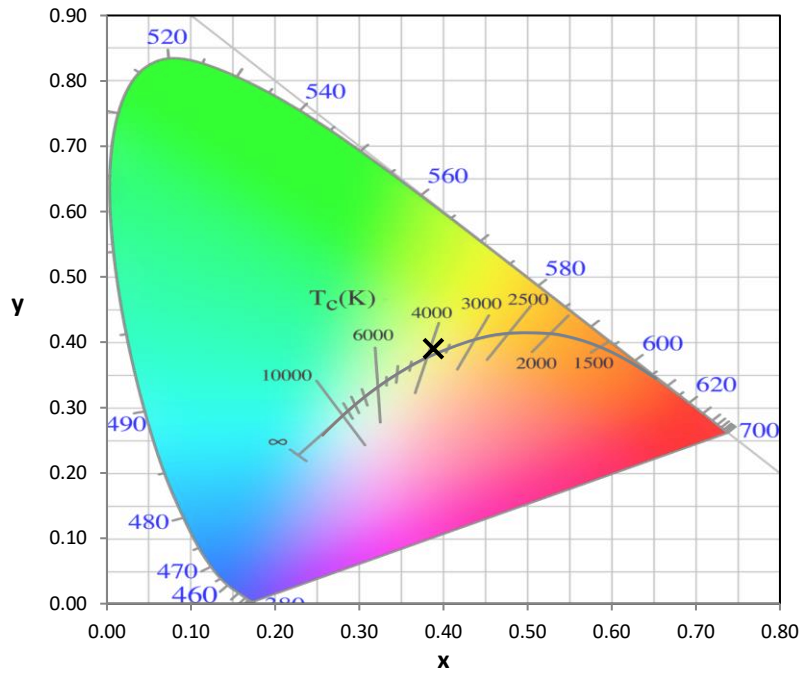
Stabilization Time: 24M
 Operation Time: 1H 24M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-11

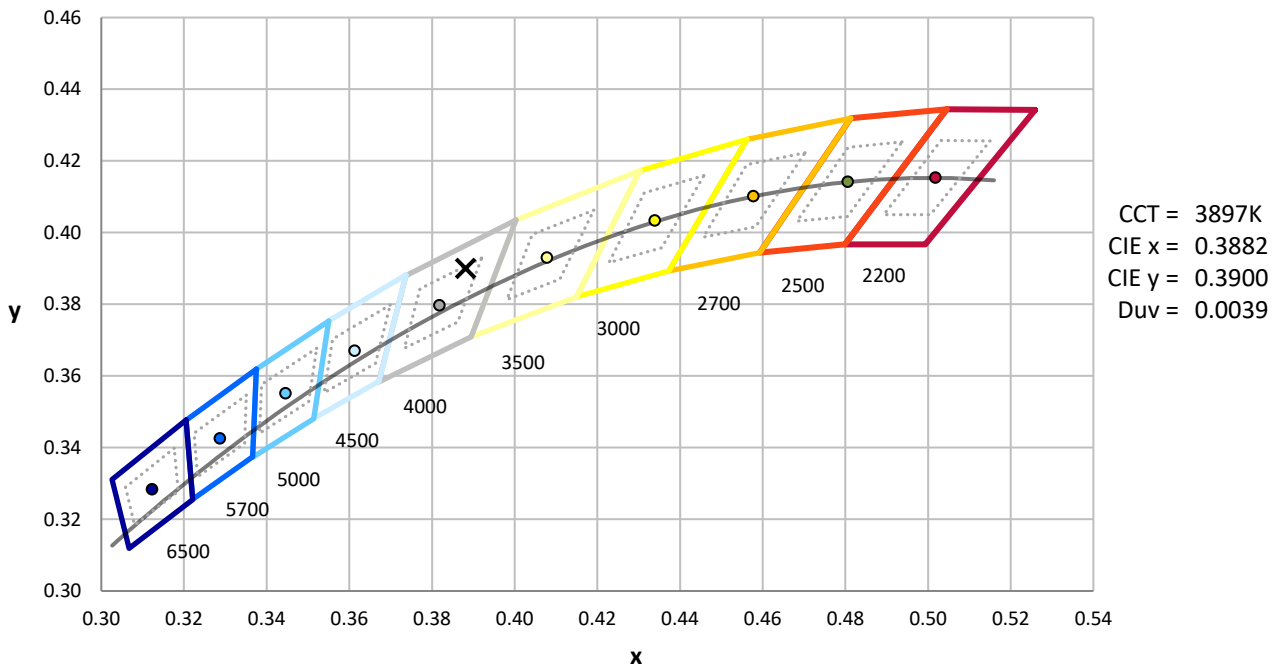
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



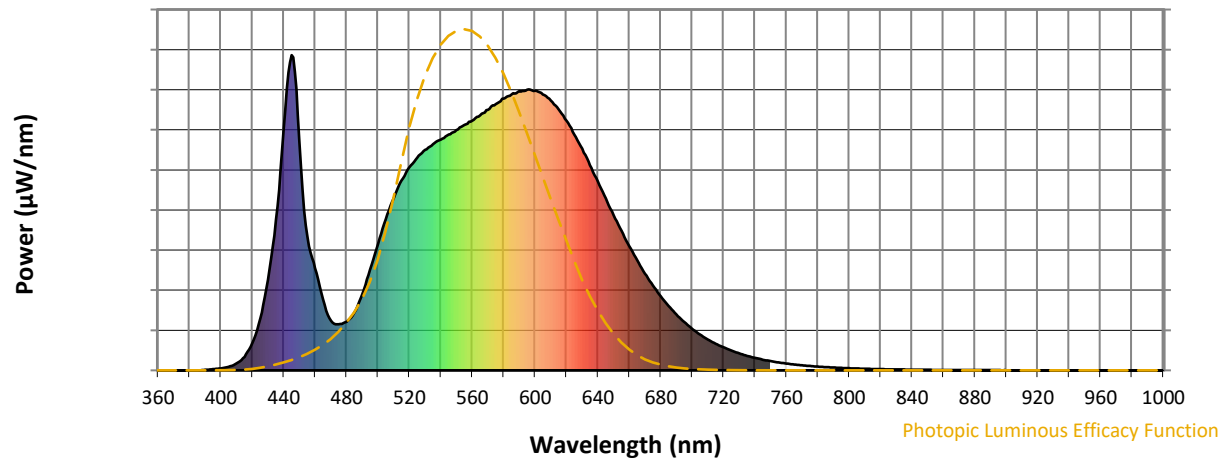
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 4000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-11

Photopic Flux vs. Wavelength

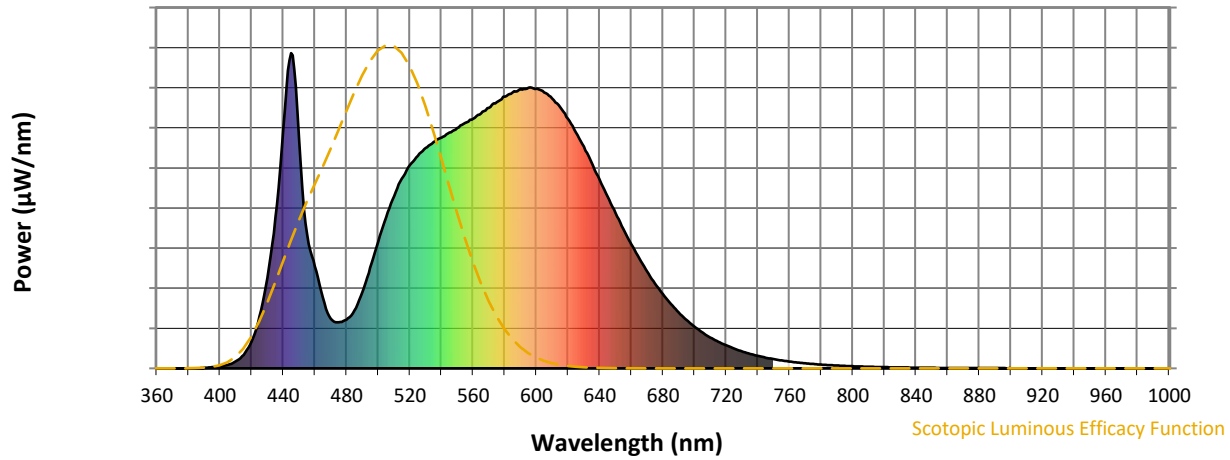


Photopic Lumens: NR

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Scotopic Flux vs. Wavelength



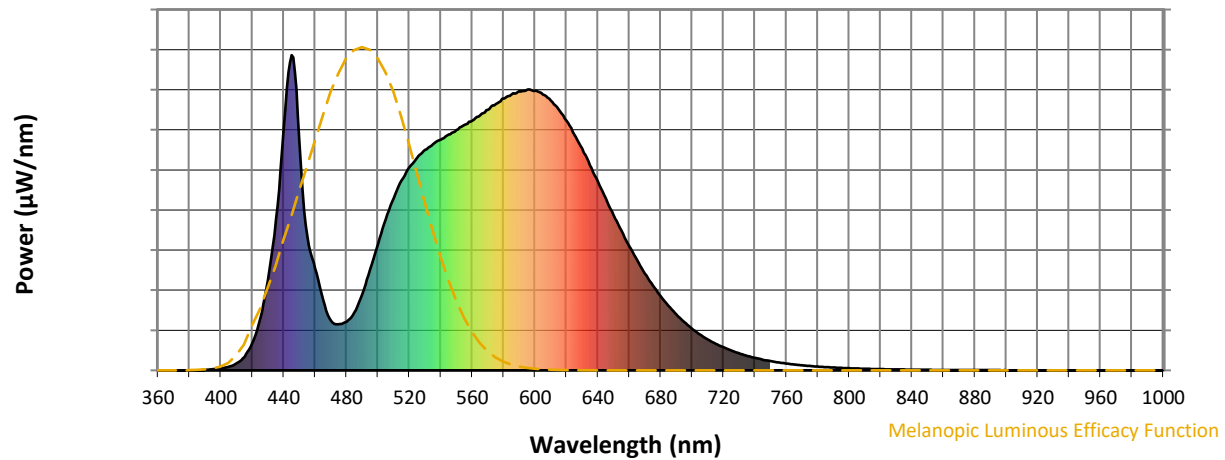
Scotopic Lumens: NR

S/P: 1.57

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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 3.06

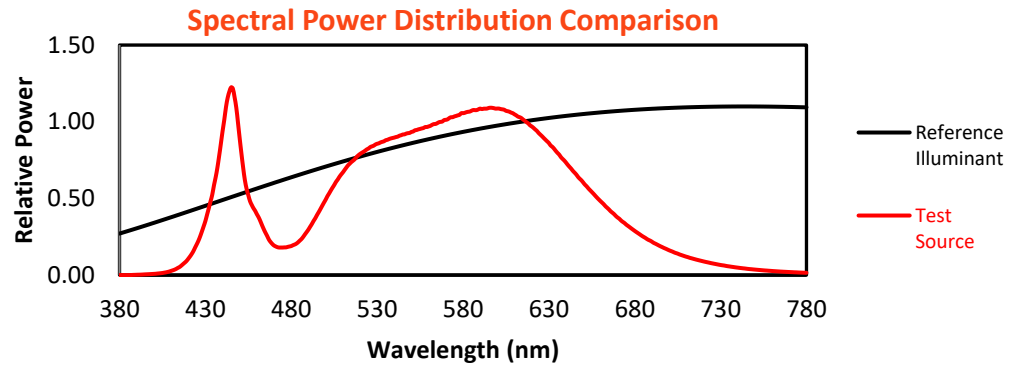
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	242	NR	620	792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

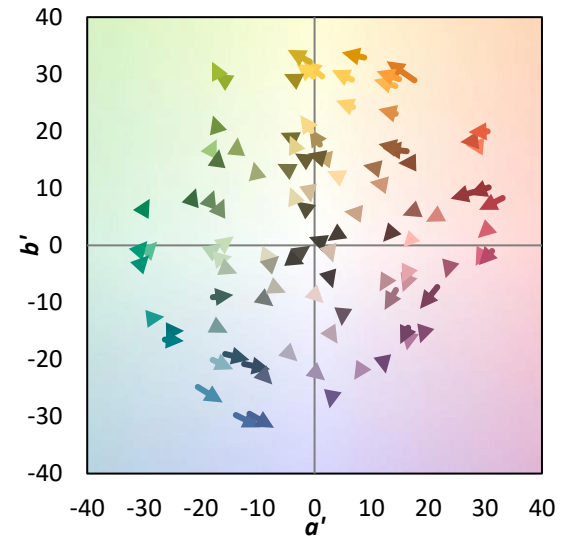
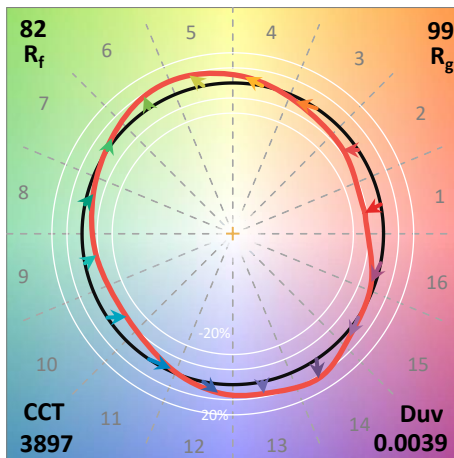
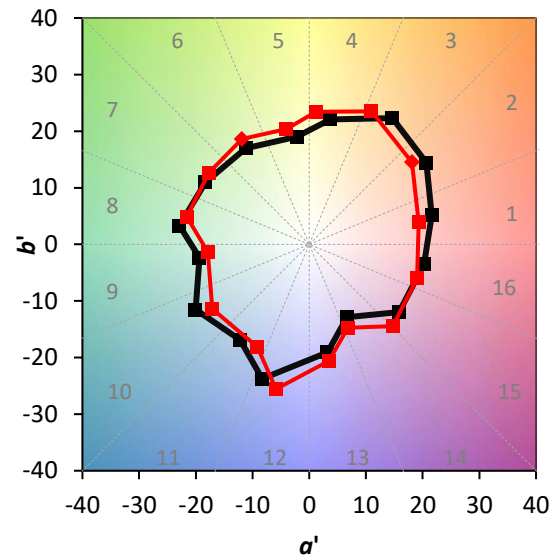
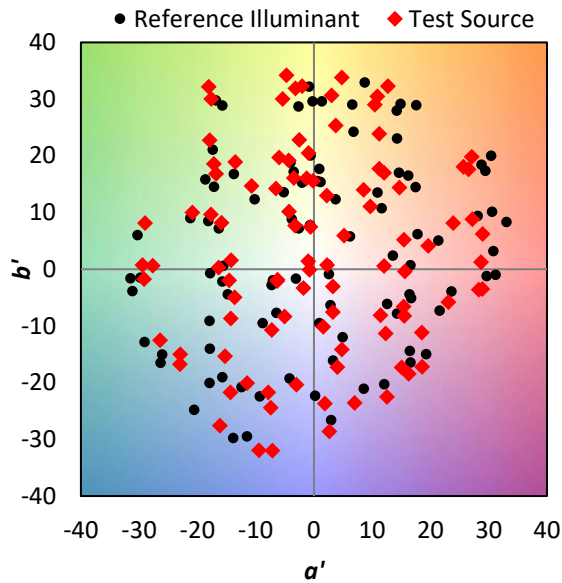
TM-30-18

Summary

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

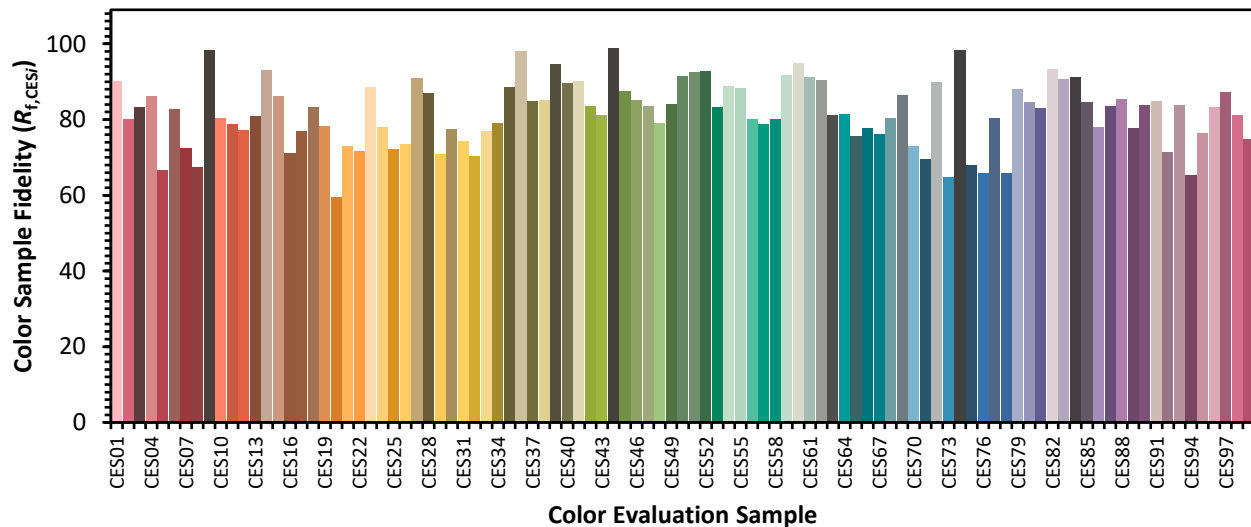


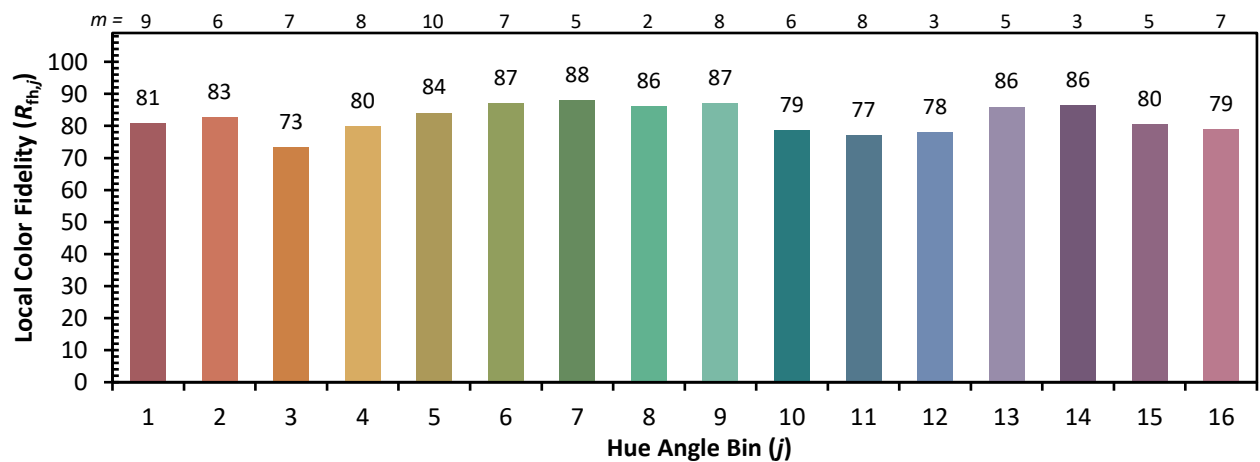
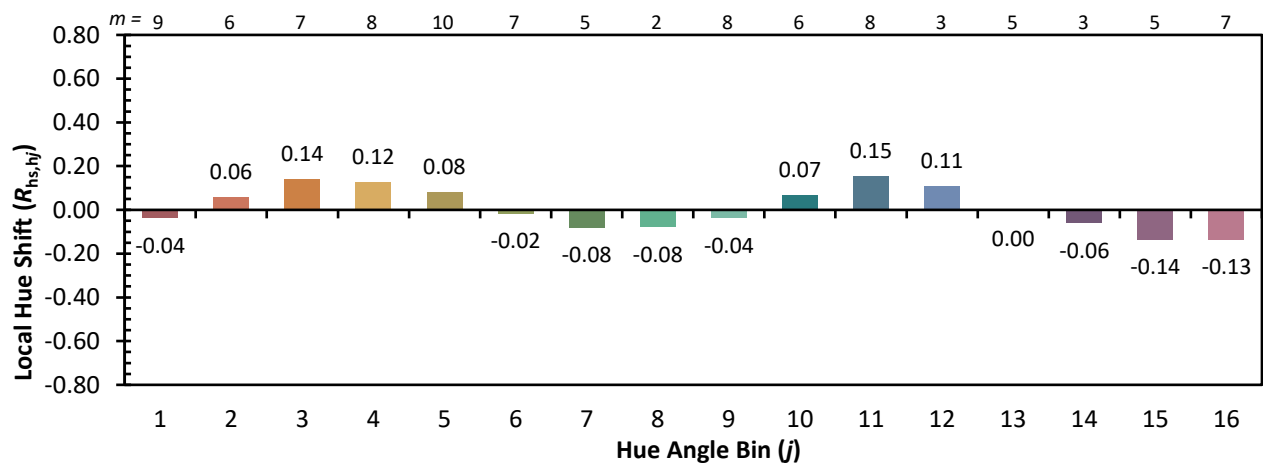
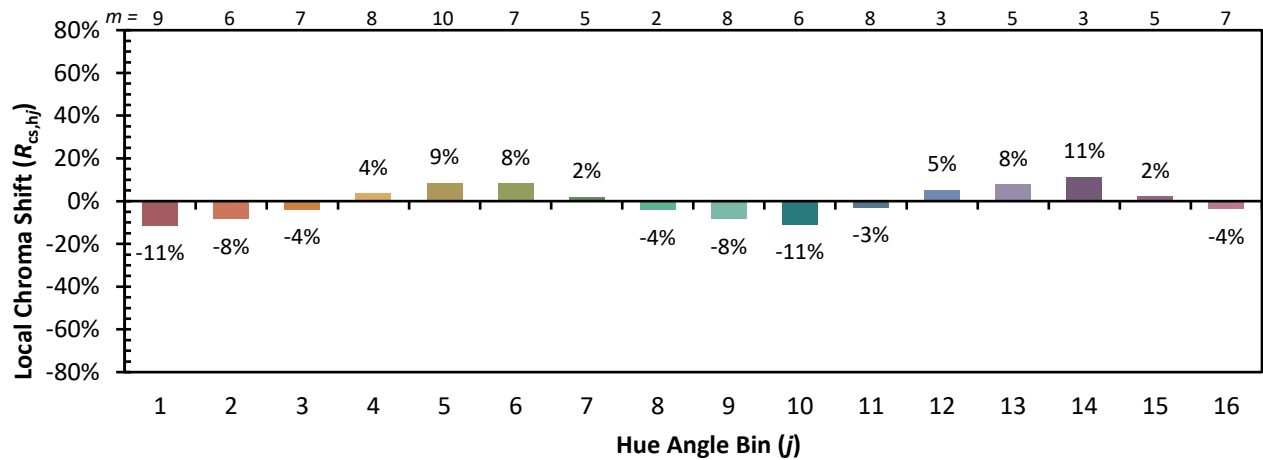
Color Vector Graphics

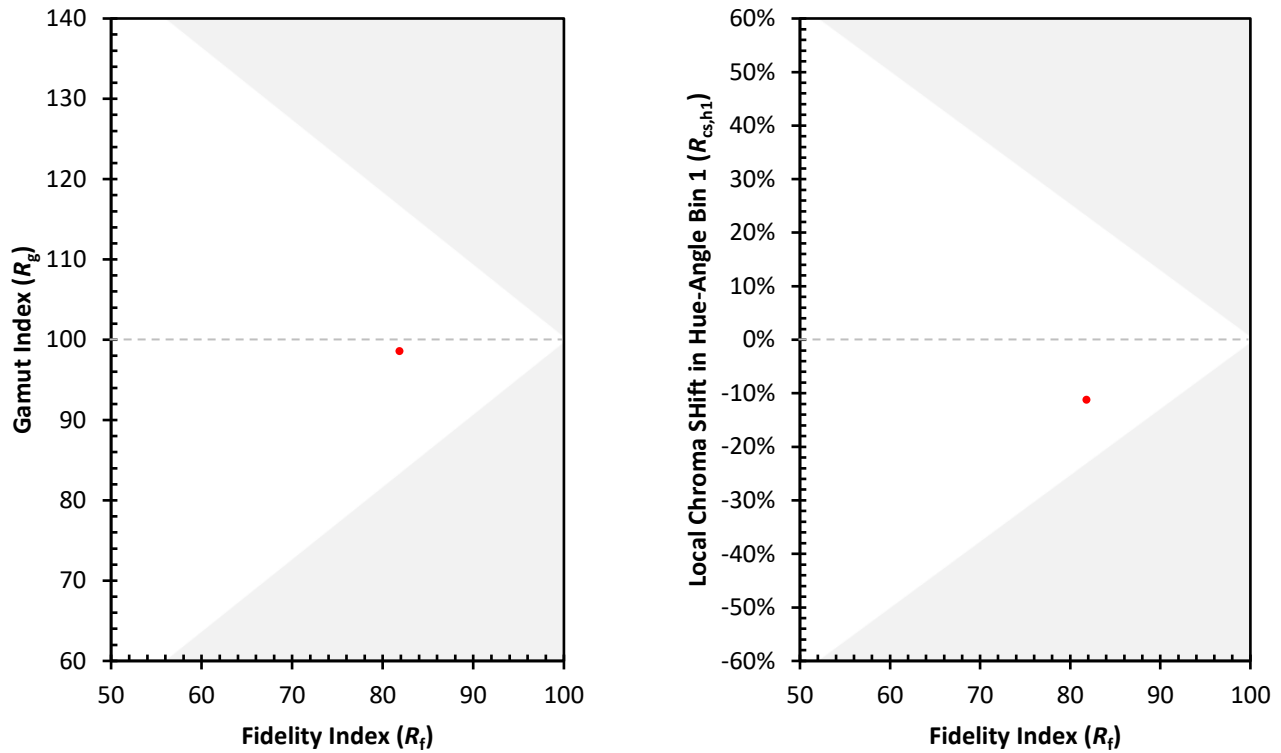


Individual Sample Fidelity Index ($R_{f,i}$)

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)