

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643930

Luminaire Tested: GWS-SA6F-830-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24536.3 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

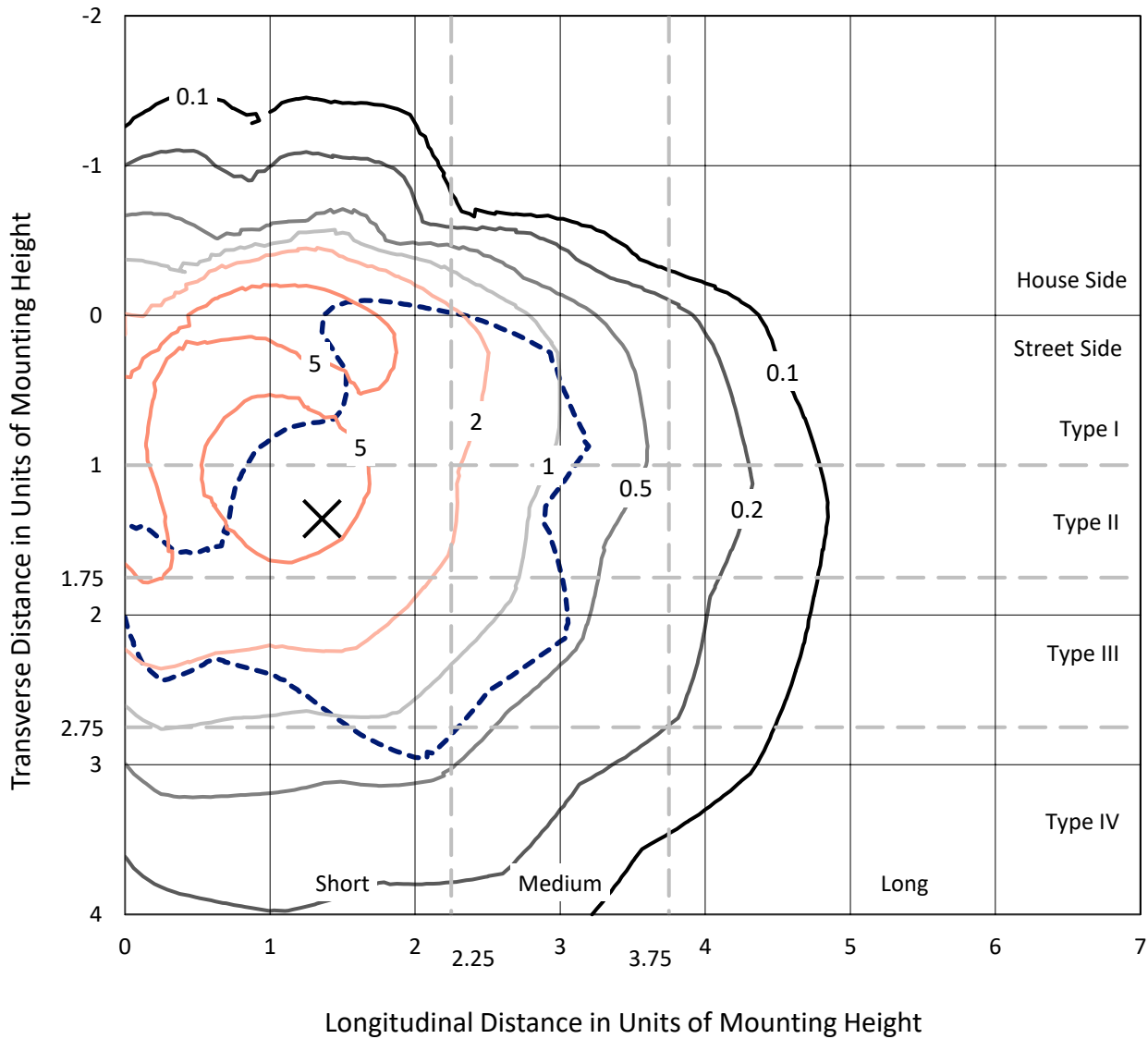
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

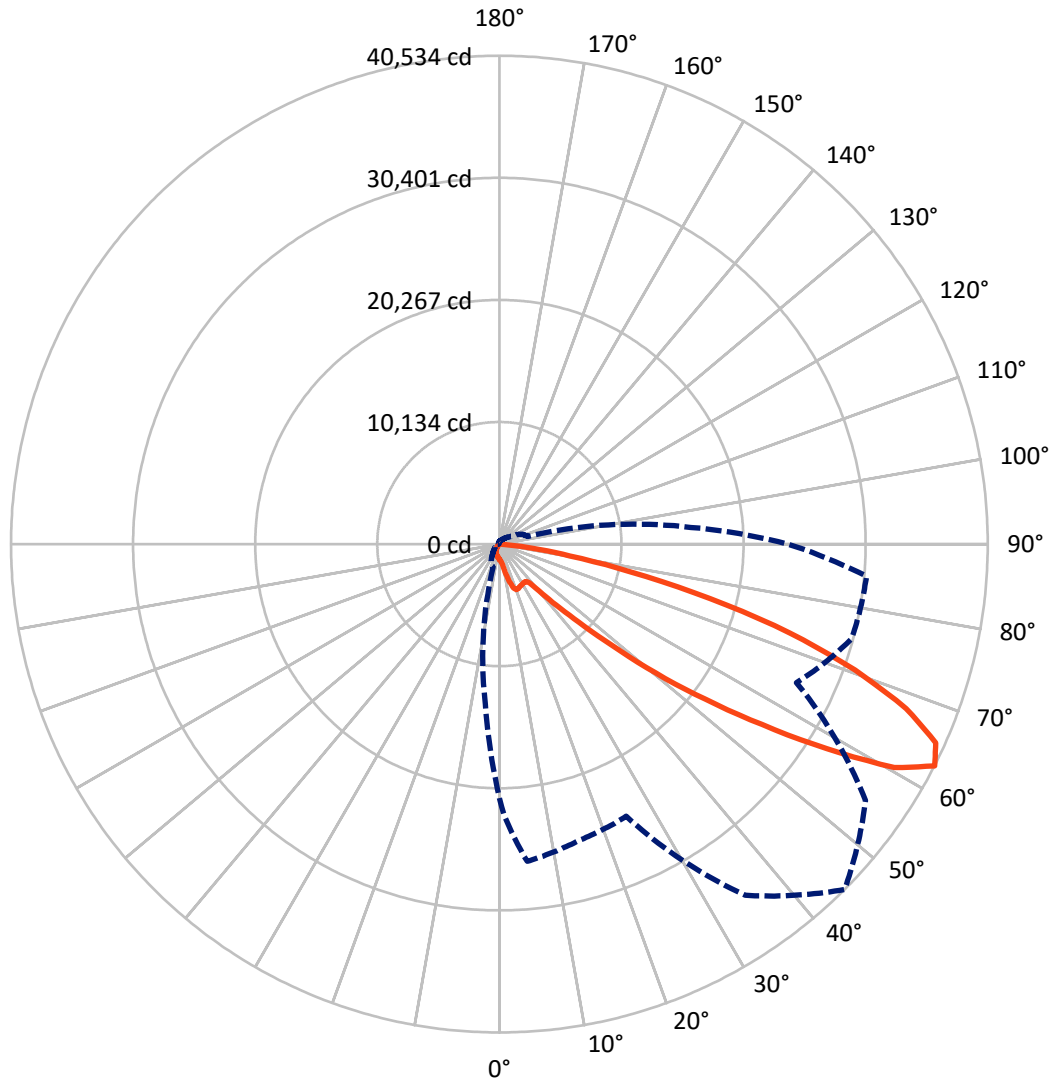
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3027.7	0.0	3027.7
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	21508.5	0.0	21508.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	24536.3	0.0	24536.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	0.5
10°-20°	427.8	1.7
20°-30°	929.9	3.8
30°-40°	1526.3	6.2
40°-50°	2805.9	11.4
50°-60°	6025.8	24.6
60°-70°	8093.5	33.0
70°-80°	4214.4	17.2
80°-90°	399.6	1.6
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°	24536.3	100.0
0°-180°	24536.3	100.0

Coefficient of Utilization



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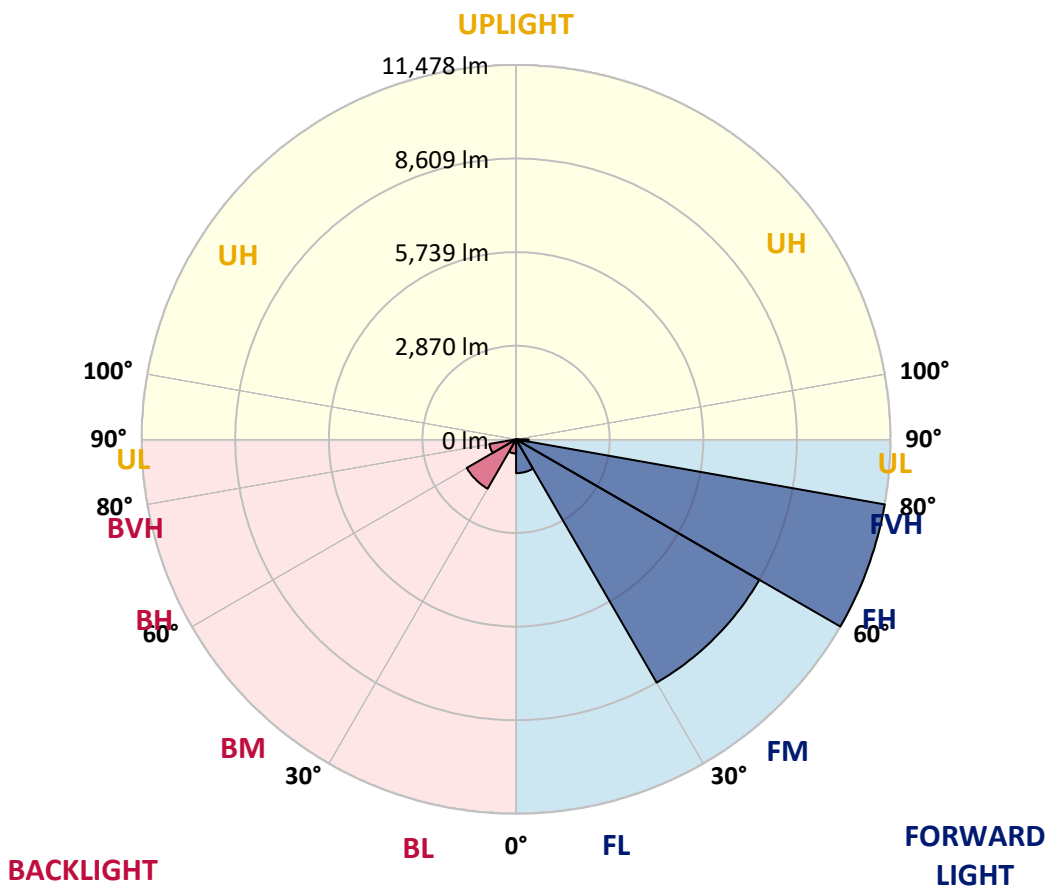
CATALOG NUMBER: GWS-SA6F-830-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.5	4.2			
FM (30°-60°)	8612.0	35.1			
FH (60°-80°)	11478.3	46.8			G4/12000
FVH (80°-90°)	381.8	1.6			G3/500
BL (0°-30°)	434.3	1.8	B1/500		
BM (30°-60°)	1746.0	7.1	B2/2500		
BH (60°-80°)	829.6	3.4	B2/1000		G2/1000
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1300.9	1306.5	1312.2	1332.1	1346.2	1357.6	1360.4	1351.9	1332.1	1312.2	1283.9
5°	1261.2	1266.9	1286.7	1340.6	1394.4	1436.9	1451.1	1442.6	1394.4	1332.1	1266.9
7.5°	1258.4	1269.7	1317.9	1431.3	1547.5	1635.3	1658.0	1638.1	1547.5	1422.8	1289.5
10°	1360.4	1380.2	1451.1	1655.2	1867.7	2023.6	2085.9	2000.9	1856.4	1629.6	1411.4
12.5°	1626.8	1660.8	1796.9	2094.4	2423.2	2630.1	2715.1	2610.3	2383.5	2054.8	1709.0
15°	2046.3	2097.3	2301.3	2746.3	3134.6	3318.8	3347.1	3287.6	3024.1	2661.3	2196.5
17.5°	2638.6	2712.3	3029.7	3483.2	3763.8	3829.0	3820.5	3758.1	3565.4	3316.0	2876.7
20°	3347.1	3435.0	3746.8	4120.9	4149.2	4072.7	4030.2	3993.3	3928.2	3885.6	3542.7
22.5°	4061.4	4169.1	4495.0	4588.5	4333.4	4112.4	4007.5	4035.9	4132.2	4341.9	4203.1
25°	4772.7	4874.8	5180.9	4928.6	4418.5	4050.0	3916.8	3984.8	4214.4	4667.9	4846.4
27.5°	5603.1	5679.7	5861.1	5161.0	4432.6	3999.0	3868.6	3973.5	4254.1	4871.9	5552.1
30°	6467.6	6512.9	6425.1	5223.4	4384.5	3922.5	3820.5	3973.5	4322.1	5008.0	6082.1
32.5°	7102.4	7110.9	6824.7	5229.0	4358.9	3860.1	3775.1	3956.5	4387.3	5121.3	6595.1
35°	7757.1	7714.6	7207.3	5314.1	4427.0	3882.8	3809.1	4004.7	4489.3	5254.5	7045.7
37.5°	8420.3	8343.8	7635.2	5452.9	4602.7	4129.4	4084.0	4251.2	4653.7	5438.8	7541.7
40°	9100.5	8995.6	8080.2	5662.7	4993.8	4968.3	5124.2	5104.3	5104.3	5674.0	8051.9
42.5°	9930.9	9809.0	8737.7	6255.0	5906.4	6476.1	6901.2	6637.6	6150.1	6215.3	8715.1
45°	11027.7	10922.9	9877.1	7388.7	7337.7	8647.0	9219.5	8698.1	7485.0	7465.2	9823.2
47.5°	12782.1	12762.2	11693.8	8703.7	9089.2	11410.3	12515.7	11512.4	9007.0	8788.7	11920.5
50°	15247.8	15188.3	13958.3	10245.5	11172.3	14834.0	16806.6	15134.4	10846.3	10333.4	14729.2
52.5°	18025.3	18087.6	17129.7	11929.0	13385.8	18643.1	21389.4	19283.7	12844.4	12297.4	18263.4
55°	20641.2	20998.3	20746.1	13898.7	15548.2	22849.0	26422.9	23835.3	15318.7	14868.0	22225.5
57.5°	22687.5	23693.6	25462.1	16761.2	18090.5	27769.1	32043.1	28769.6	18206.7	19042.8	27618.9
60°	22800.9	24132.9	28239.6	22749.8	21361.1	31989.2	37654.7	33590.5	22747.0	26131.0	31844.7
62.5°	21091.9	22520.3	26431.4	25470.6	24923.6	35580.1	40534.2	37104.9	27213.6	30283.0	30592.0
65°	19136.3	20578.9	24413.5	22384.2	24509.9	35427.1	39803.0	37187.1	27618.9	27460.2	28350.1
67.5°	16180.2	17475.5	20947.3	19813.6	22591.1	33718.1	36424.7	34843.2	25445.1	25683.2	26080.0
70°	11810.0	13057.0	16279.4	16336.1	19728.6	30637.3	31297.7	31079.4	23432.9	23685.1	22551.4
72.5°	8530.8	9582.3	12362.6	13397.1	15749.5	25691.7	25235.4	26077.1	20105.6	21094.7	18113.1
75°	6133.1	6921.0	9069.3	11654.1	12484.5	19079.6	18065.0	20196.3	16132.1	18164.2	13618.2
77.5°	2488.4	2766.1	3568.2	7850.6	8204.9	12835.9	11058.9	14669.6	11501.0	11934.7	6600.8
80°	102.0	113.4	147.4	4052.9	5625.8	7221.5	5917.7	7842.1	7595.6	4806.7	1558.8
82.5°	11.3	11.3	25.5	1167.7	2462.9	3984.8	2788.8	4517.7	3846.0	2037.8	708.5
85°	2.8	2.8	5.7	133.2	578.2	637.7	376.9	1385.9	1788.4	833.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	25.5	28.3	0.0
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1283.9	1269.7	1252.7	1235.7	1227.2	1204.5	1196.0	1190.3	1184.7	1187.5	1187.5
5°	1241.4	1210.2	1173.3	1136.5	1116.7	1094.0	1082.7	1077.0	1079.8	1091.2	1091.2
7.5°	1235.7	1176.2	1096.8	1048.6	1026.0	1009.0	997.6	992.0	994.8	1009.0	1014.6
10°	1329.2	1224.4	1082.7	1000.5	975.0	957.9	946.6	938.1	932.4	943.8	946.6
12.5°	1530.4	1385.9	1150.7	994.8	949.4	926.8	918.3	901.3	892.8	898.4	901.3
15°	1947.1	1697.7	1286.7	1017.5	926.8	901.3	887.1	872.9	858.8	855.9	858.8
17.5°	2491.2	2134.1	1493.6	1071.3	909.8	878.6	858.8	838.9	819.1	816.2	813.4
20°	3165.8	2669.8	1782.7	1156.3	895.6	858.8	830.4	802.1	776.6	768.1	768.1
22.5°	3780.8	3316.0	2154.0	1261.2	875.8	830.4	796.4	762.4	734.0	719.9	717.0
25°	4531.8	4001.8	2598.9	1383.1	847.4	793.6	756.7	722.7	694.4	677.4	671.7
27.5°	5288.6	4724.6	3103.4	1541.8	813.4	756.7	722.7	691.5	660.4	640.5	634.9
30°	6022.6	5503.9	3670.2	1740.2	787.9	719.9	691.5	660.4	632.0	600.8	592.3
32.5°	6810.5	6300.3	4305.1	1961.2	768.1	694.4	663.2	634.9	598.0	569.7	555.5
35°	7570.1	7122.3	5005.1	2176.6	748.2	671.7	637.7	609.3	569.7	538.5	518.7
37.5°	8335.3	7958.3	5736.3	2307.0	719.9	640.5	609.3	586.7	541.3	504.5	481.8
40°	9145.8	8822.8	6527.1	2253.2	694.4	606.5	589.5	564.0	513.0	470.5	442.1
42.5°	10035.8	9647.5	7332.0	2046.3	671.7	578.2	561.2	535.7	487.5	436.5	399.6
45°	11155.3	10551.6	7992.3	1734.5	683.0	549.8	515.8	510.1	464.8	399.6	354.3
47.5°	13079.7	11940.3	8505.3	1533.3	759.6	518.7	479.0	493.1	445.0	362.8	311.8
50°	16024.4	14241.7	8984.3	1519.1	875.8	504.5	445.0	481.8	425.1	325.9	274.9
52.5°	18830.2	16579.9	9290.4	1643.8	977.8	541.3	411.0	467.6	411.0	300.4	249.4
55°	21514.1	17928.9	8743.4	1734.5	1074.1	651.9	385.4	445.0	393.9	286.3	240.9
57.5°	24407.8	18529.8	6884.2	1918.7	1142.2	745.4	391.1	411.0	371.3	277.7	238.1
60°	25272.2	17761.7	4154.9	2159.6	1105.3	773.7	433.6	365.6	340.1	260.7	229.6
62.5°	23928.9	15939.3	2451.6	1966.9	1074.1	731.2	496.0	337.3	308.9	238.1	212.6
65°	21919.4	13465.1	1598.5	1660.8	1139.3	651.9	527.2	323.1	280.6	215.4	187.1
67.5°	19623.8	10846.3	1119.5	980.6	1051.5	586.7	445.0	320.3	252.2	181.4	153.0
70°	16528.8	8122.7	787.9	649.0	875.8	521.5	345.8	311.8	221.1	147.4	119.0
72.5°	12770.7	5084.5	586.7	419.5	623.5	425.1	274.9	263.6	178.6	121.9	90.7
75°	9417.9	2899.4	413.8	303.3	411.0	323.1	204.1	187.1	153.0	116.2	82.2
77.5°	4917.3	1451.1	257.9	232.4	235.2	201.2	147.4	136.0	141.7	116.2	76.5
80°	943.8	289.1	155.9	170.0	127.5	127.5	107.7	113.4	124.7	93.5	65.2
82.5°	393.9	62.4	85.0	96.4	79.4	87.9	87.9	90.7	87.9	68.0	48.2
85°	0.0	0.0	36.8	39.7	53.8	53.8	45.3	45.3	45.3	39.7	28.3
87.5°	0.0	0.0	0.0	0.0	2.8	8.5	17.0	19.8	22.7	17.0	11.3
90°	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1184.7	1179.0	1187.5	1193.2	1198.9	1198.9	1193.2	1187.5	1179.0	1187.5	1179.0
5°	1094.0	1102.5	1116.7	1122.3	1128.0	1116.7	1111.0	1094.0	1079.8	1082.7	1077.0
7.5°	1023.1	1031.6	1048.6	1060.0	1060.0	1054.3	1037.3	1020.3	997.6	997.6	994.8
10°	957.9	969.3	989.1	1003.3	1009.0	1003.3	986.3	963.6	943.8	943.8	935.3
12.5°	904.1	918.3	940.9	960.8	966.5	960.8	943.8	921.1	898.4	898.4	892.8
15°	858.8	875.8	901.3	923.9	932.4	923.9	904.1	875.8	853.1	855.9	847.4
17.5°	816.2	830.4	864.4	889.9	898.4	889.9	864.4	827.6	804.9	810.6	804.9
20°	768.1	785.1	819.1	847.4	855.9	847.4	819.1	779.4	756.7	756.7	759.6
22.5°	717.0	734.0	768.1	787.9	799.2	790.7	762.4	725.5	702.9	702.9	705.7
25°	671.7	680.2	705.7	725.5	728.4	719.9	697.2	668.9	651.9	660.4	663.2
27.5°	629.2	629.2	640.5	651.9	649.0	640.5	632.0	609.3	606.5	615.0	623.5
30°	583.8	569.7	564.0	555.5	552.7	549.8	558.3	558.3	564.0	575.3	583.8
32.5°	544.2	515.8	490.3	464.8	450.6	462.0	484.6	504.5	524.3	541.3	549.8
35°	498.8	453.5	411.0	376.9	354.3	371.3	408.1	445.0	479.0	501.6	515.8
37.5°	453.5	388.3	337.3	294.8	277.7	291.9	331.6	382.6	433.6	462.0	481.8
40°	405.3	323.1	263.6	229.6	212.6	226.7	266.4	317.4	385.4	422.3	447.8
42.5°	357.1	266.4	212.6	178.6	170.0	178.6	209.7	260.7	334.4	379.8	413.8
45°	308.9	221.1	170.0	144.5	136.0	144.5	170.0	212.6	286.3	337.3	376.9
47.5°	266.4	187.1	141.7	119.0	113.4	121.9	141.7	178.6	240.9	291.9	337.3
50°	232.4	164.4	121.9	102.0	96.4	104.9	121.9	150.2	204.1	249.4	297.6
52.5°	209.7	153.0	107.7	87.9	85.0	90.7	104.9	127.5	172.9	212.6	257.9
55°	204.1	153.0	99.2	79.4	76.5	82.2	93.5	110.5	150.2	184.2	223.9
57.5°	209.7	164.4	93.5	68.0	65.2	70.9	82.2	96.4	130.4	158.7	195.6
60°	209.7	167.2	82.2	53.8	51.0	56.7	68.0	85.0	116.2	138.9	170.0
62.5°	189.9	153.0	68.0	42.5	36.8	42.5	56.7	70.9	102.0	124.7	150.2
65°	164.4	130.4	56.7	31.2	25.5	31.2	45.3	59.5	87.9	107.7	136.0
67.5°	133.2	99.2	42.5	22.7	17.0	22.7	34.0	48.2	73.7	93.5	121.9
70°	99.2	70.9	34.0	19.8	17.0	19.8	31.2	45.3	65.2	85.0	113.4
72.5°	73.7	48.2	28.3	19.8	14.2	19.8	28.3	42.5	62.4	82.2	107.7
75°	62.4	39.7	25.5	17.0	14.2	17.0	25.5	39.7	56.7	76.5	102.0
77.5°	59.5	36.8	22.7	14.2	11.3	14.2	22.7	34.0	51.0	70.9	99.2
80°	51.0	31.2	19.8	11.3	8.5	11.3	19.8	28.3	39.7	53.8	76.5
82.5°	39.7	25.5	14.2	5.7	2.8	5.7	14.2	17.0	25.5	31.2	45.3
85°	25.5	14.2	5.7	0.0	0.0	0.0	5.7	11.3	11.3	14.2	22.7
87.5°	11.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GWS-SA6F-830-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4	1275.4
2.5°	1196.0	1198.9	1204.5	1213.0	1232.9	1249.9	1266.9	1289.5	1300.9	1300.9
5°	1082.7	1085.5	1088.3	1099.7	1128.0	1150.7	1187.5	1232.9	1255.5	1261.2
7.5°	994.8	1000.5	1006.1	1014.6	1043.0	1074.1	1122.3	1207.4	1249.9	1258.4
10°	943.8	952.3	963.6	980.6	1006.1	1040.1	1122.3	1275.4	1346.2	1360.4
12.5°	904.1	918.3	929.6	949.4	980.6	1034.5	1198.9	1468.1	1592.8	1626.8
15°	864.4	881.4	898.4	918.3	952.3	1054.3	1346.2	1813.9	2020.8	2046.3
17.5°	824.7	844.6	867.3	889.9	932.4	1102.5	1578.6	2292.8	2581.9	2638.6
20°	779.4	804.9	836.1	864.4	912.6	1179.0	1901.7	2862.5	3225.3	3347.1
22.5°	731.2	762.4	799.2	836.1	889.9	1272.5	2292.8	3474.7	3982.0	4061.4
25°	691.5	722.7	756.7	793.6	853.1	1385.9	2766.1	4234.2	4696.2	4772.7
27.5°	654.7	685.9	717.0	751.1	816.2	1533.3	3335.8	5042.0	5523.8	5603.1
30°	615.0	651.9	683.0	717.0	782.2	1714.7	3993.3	5937.6	6393.9	6467.6
32.5°	581.0	617.8	649.0	683.0	756.7	1913.1	4684.9	6731.1	7102.4	7102.4
35°	552.7	592.3	615.0	660.4	736.9	2040.6	5339.6	7487.9	7768.4	7757.1
37.5°	521.5	569.7	586.7	617.8	711.4	2054.8	5954.6	8287.1	8494.0	8420.3
40°	490.3	541.3	566.8	583.8	683.0	1938.6	6629.1	9021.1	9196.9	9100.5
42.5°	462.0	501.6	538.5	558.3	666.0	1734.5	7170.4	9806.2	10015.9	9930.9
45°	433.6	467.6	490.3	527.2	677.4	1592.8	7635.2	10721.6	11090.1	11027.7
47.5°	405.3	433.6	447.8	504.5	753.9	1527.6	7918.7	12138.7	12833.1	12782.1
50°	374.1	408.1	408.1	498.8	867.3	1550.3	8165.2	14190.7	15264.8	15247.8
52.5°	342.9	379.8	374.1	541.3	955.1	1655.2	8445.8	16001.7	17869.4	18025.3
55°	311.8	345.8	351.4	626.4	1006.1	1745.8	7360.3	16764.1	20094.2	20641.2
57.5°	277.7	297.6	365.6	691.5	989.1	2009.4	5042.0	16903.0	21514.1	22687.5
60°	240.9	257.9	413.8	677.4	935.3	1856.4	3174.3	15655.9	21312.9	22800.9
62.5°	209.7	238.1	436.5	598.0	952.3	1609.8	2023.6	13343.2	19394.2	21091.9
65°	184.2	229.6	396.8	541.3	963.6	1091.2	1366.1	10854.9	17520.8	19136.3
67.5°	164.4	255.1	325.9	481.8	827.6	768.1	938.1	8434.5	14732.0	16180.2
70°	150.2	260.7	266.4	413.8	640.5	493.1	617.8	5676.8	10154.8	11810.0
72.5°	136.0	192.7	201.2	331.6	413.8	300.4	399.6	3248.0	7402.8	8530.8
75°	130.4	130.4	138.9	215.4	229.6	218.2	257.9	1938.6	5308.4	6133.1
77.5°	121.9	99.2	87.9	138.9	124.7	155.9	153.0	861.6	2301.3	2488.4
80°	96.4	70.9	59.5	87.9	85.0	104.9	90.7	70.9	104.9	102.0
82.5°	59.5	45.3	42.5	53.8	48.2	53.8	42.5	11.3	11.3	11.3
85°	28.3	25.5	22.7	22.7	25.5	22.7	17.0	5.7	2.8	2.8
87.5°	14.2	14.2	11.3	8.5	11.3	11.3	8.5	2.8	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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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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

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CIE 1931 Chromaticity Diagram



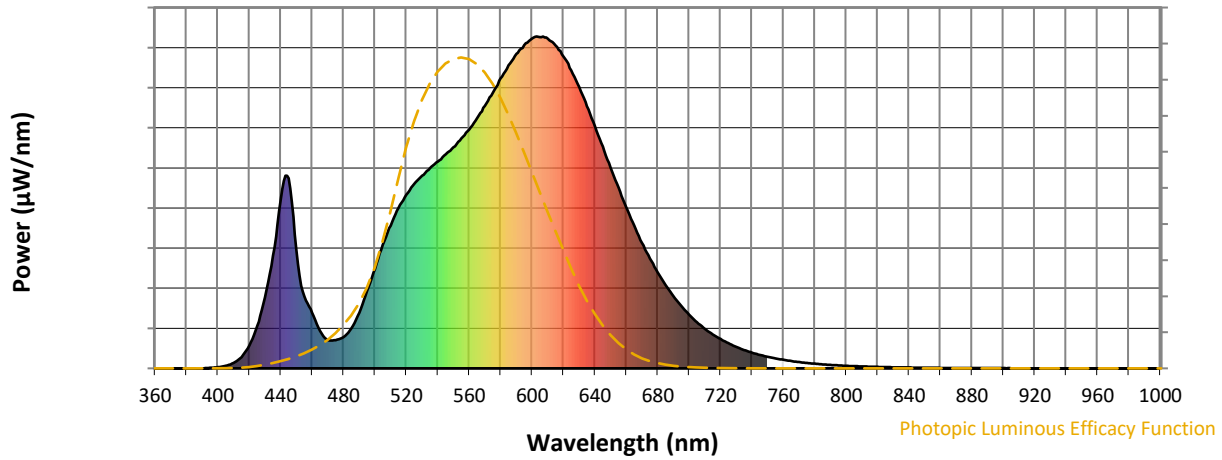
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)