

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: P633034

Luminaire Tested: GWS-SA2D-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4973.6 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

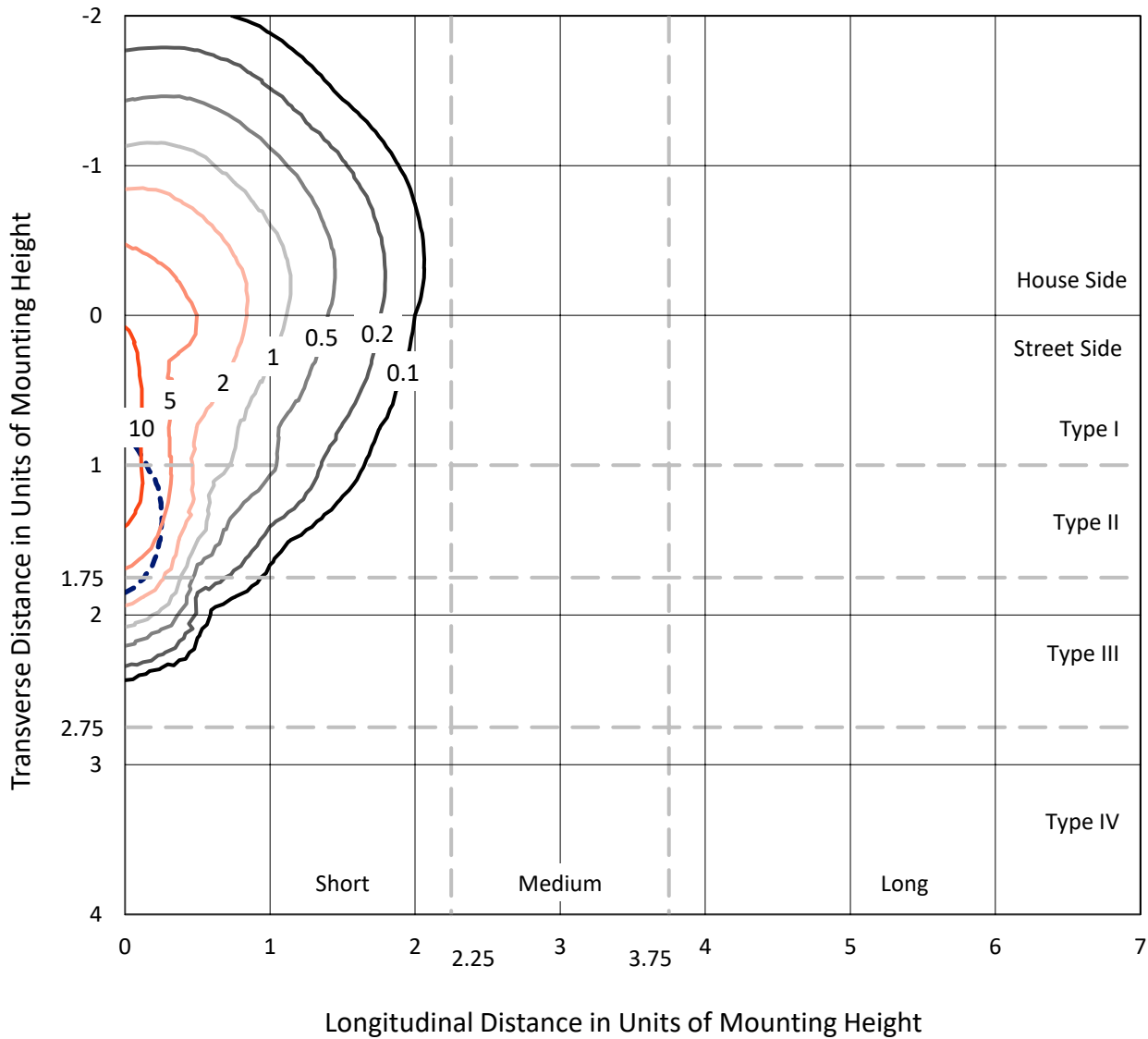
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

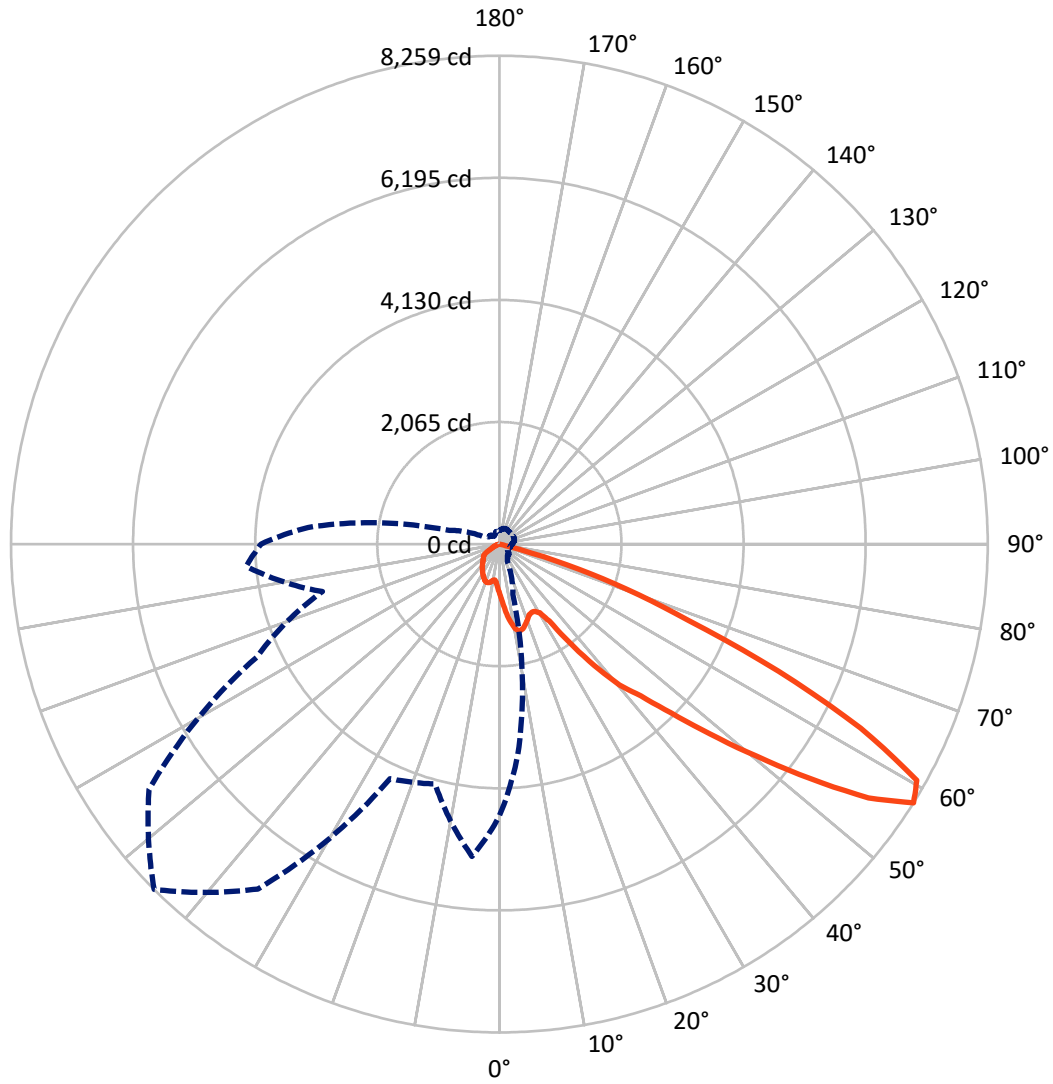
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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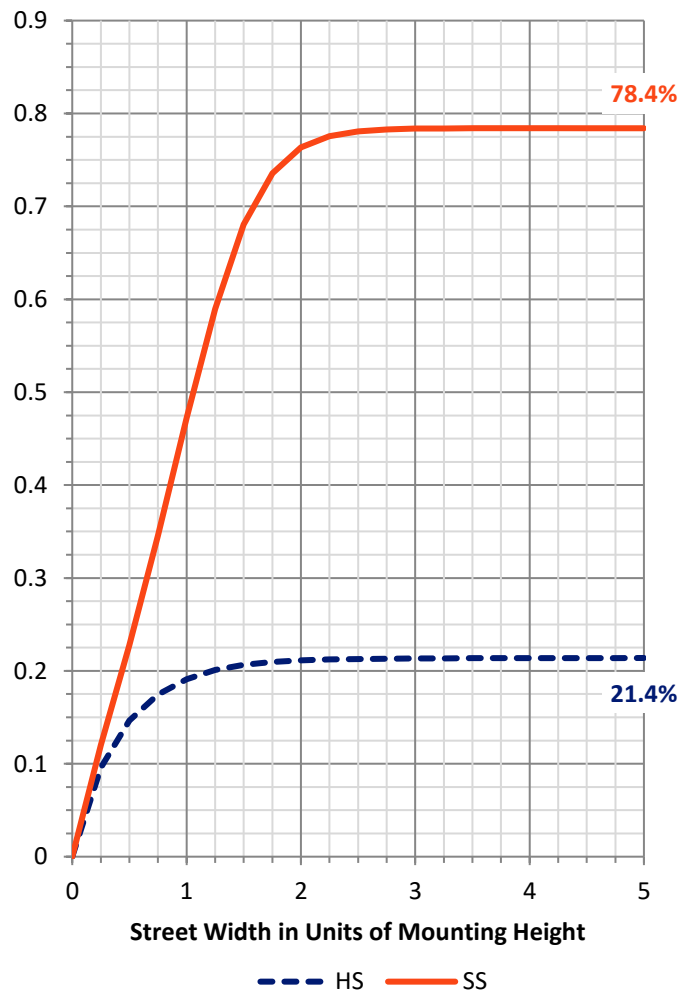
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1071.5	0.0	1071.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3902.1	0.0	3902.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	4973.6	0.0	4973.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.7
10°-20°	274.8	5.5
20°-30°	446.0	9.0
30°-40°	684.6	13.8
40°-50°	1093.3	22.0
50°-60°	1530.8	30.8
60°-70°	784.9	15.8
70°-80°	75.6	1.5
80°-90°	0.0	0.0
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°	4973.6	100.0
0°-180°	4973.6	100.0

Coefficient of Utilization



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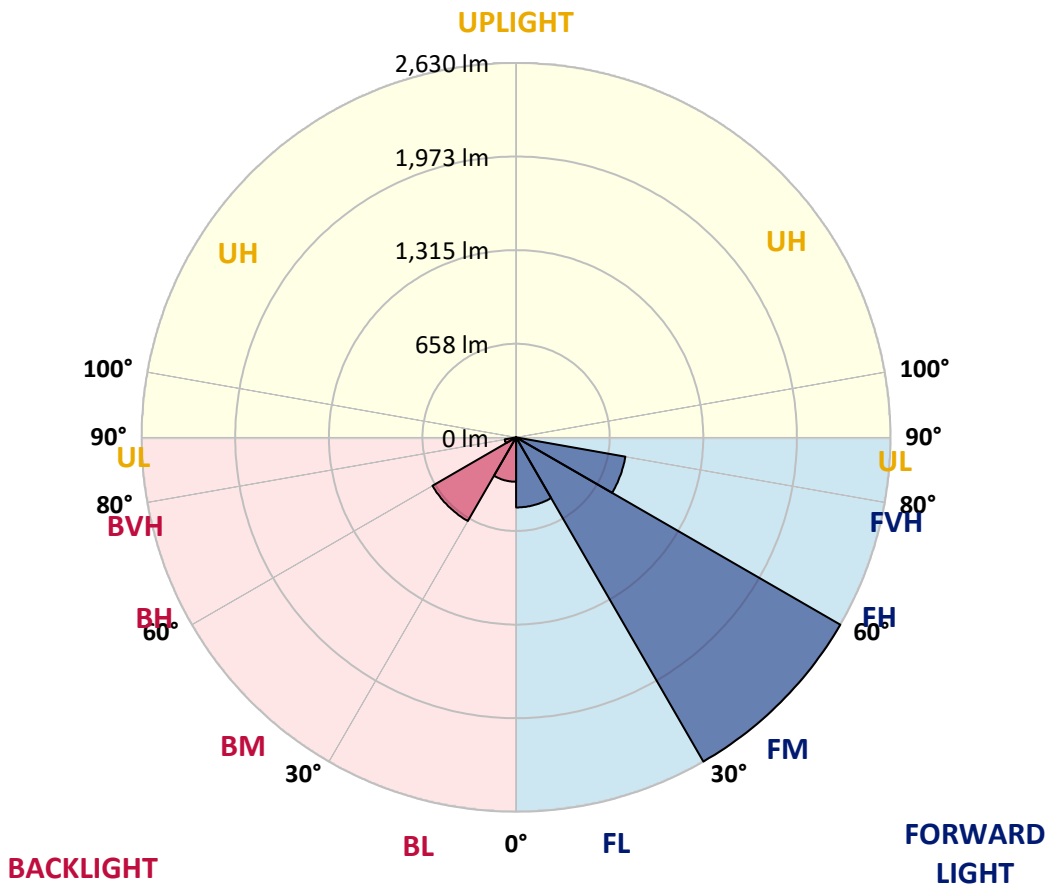
CATALOG NUMBER: GWS-SA2D-830-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.4	9.9			
FM (30°-60°)	2630.2	52.9			
FH (60°-80°)	779.5	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	312.0	6.3	B1/500		
BM (30°-60°)	678.6	13.6	B1/1000		
BH (60°-80°)	80.9	1.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	938.8	936.8	930.2	907.6	893.6	871.7	855.7	835.1	812.5	798.5	784.6
5°	1038.6	1033.3	1015.3	963.4	923.5	880.3	845.8	807.9	767.3	740.7	716.1
7.5°	1134.3	1126.3	1102.4	1014.6	954.1	892.3	843.1	787.9	730.7	690.8	660.2
10°	1228.1	1210.1	1172.2	1064.5	982.7	908.3	850.4	787.2	720.1	669.6	635.6
12.5°	1305.2	1291.9	1240.0	1111.7	1006.7	911.6	840.4	781.9	736.7	702.8	671.5
15°	1371.7	1357.1	1307.9	1154.3	1027.3	898.3	798.5	747.3	754.7	768.0	741.4
17.5°	1432.9	1417.6	1364.4	1189.5	1035.2	865.7	740.0	715.4	756.0	805.9	795.9
20°	1496.0	1478.7	1413.6	1218.1	1032.6	814.5	680.9	688.2	745.4	802.5	807.9
22.5°	1569.8	1551.9	1476.1	1254.7	1030.6	753.3	629.7	664.2	725.4	773.9	783.3
25°	1667.6	1646.3	1563.2	1308.5	1035.9	697.5	593.1	641.0	691.5	735.4	740.7
27.5°	1796.6	1769.3	1663.6	1375.0	1047.2	653.6	577.1	609.0	648.3	687.5	692.2
30°	1964.8	1930.2	1778.6	1432.9	1041.9	623.0	566.5	577.1	600.4	632.3	633.0
32.5°	2161.6	2114.4	1907.6	1482.7	996.0	600.4	551.9	544.6	549.9	574.5	579.1
35°	2393.0	2331.8	2049.9	1529.9	912.2	556.5	525.3	500.7	498.7	510.6	521.9
37.5°	2658.3	2585.1	2229.4	1590.4	813.2	510.6	486.0	461.4	450.8	456.8	474.1
40°	2903.0	2821.8	2416.9	1663.6	712.1	469.4	440.2	414.9	402.3	404.3	425.5
42.5°	3190.2	3106.4	2646.3	1759.3	628.3	441.5	392.3	366.4	349.7	359.0	383.6
45°	3626.4	3531.3	2980.7	1842.4	561.8	434.8	350.4	313.8	305.9	321.8	351.1
47.5°	4222.1	4105.8	3440.2	1893.0	505.3	440.8	321.1	271.3	273.3	291.2	320.5
50°	4813.2	4687.5	3971.4	1826.5	458.8	428.9	306.5	238.0	250.7	266.6	293.2
52.5°	5219.5	5055.9	4230.1	1634.3	416.2	383.6	305.2	206.8	230.7	236.0	258.6
55°	5235.4	5034.0	4097.8	1288.6	358.4	323.8	291.2	180.9	208.8	210.8	230.1
57.5°	4589.1	4407.0	3581.2	885.0	318.5	237.4	232.1	158.2	171.5	188.2	200.1
60°	3491.4	3336.5	2678.2	405.6	242.0	150.9	158.9	136.3	128.3	152.9	164.9
62.5°	2138.3	2039.2	1606.4	179.5	154.3	80.5	96.4	108.4	96.4	105.7	115.7
65°	849.1	805.2	609.7	76.5	63.2	40.6	43.9	63.2	67.8	74.5	83.8
67.5°	147.6	139.6	102.4	33.9	25.9	24.6	21.3	29.3	41.2	45.9	53.2
70°	19.3	18.6	16.6	14.0	13.3	12.0	9.3	18.6	27.9	29.3	33.9
72.5°	4.7	4.0	4.0	3.3	4.0	1.3	1.3	10.0	19.9	20.6	23.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	12.6	14.0	16.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	773.3	760.0	755.3	748.7	740.0	742.7	730.7	726.7	732.7	740.7	738.7
5°	702.8	688.2	678.2	662.9	660.2	654.3	650.3	645.0	651.6	660.9	662.9
7.5°	646.9	634.3	624.3	619.7	616.4	613.7	605.7	601.7	601.7	605.7	609.0
10°	623.0	613.7	611.7	613.0	618.4	617.7	610.4	605.1	598.4	595.1	599.1
12.5°	656.3	641.0	638.3	639.0	645.6	645.0	637.0	630.3	629.0	630.3	643.0
15°	712.8	689.5	672.2	668.9	672.2	670.9	664.9	660.9	662.9	682.2	703.5
17.5°	763.3	727.4	696.2	684.2	683.5	681.5	675.5	674.2	684.2	720.1	751.3
20°	777.9	742.7	698.1	682.9	679.5	677.5	670.9	672.9	685.5	728.7	755.3
22.5°	758.7	724.7	678.2	662.9	660.2	659.6	652.9	655.6	666.2	704.1	726.1
25°	722.1	693.5	645.0	631.7	631.7	630.3	624.3	625.7	632.3	665.6	686.8
27.5°	677.5	650.3	609.7	596.4	598.4	600.4	593.1	591.1	596.4	627.7	640.3
30°	626.3	607.1	575.1	563.2	562.5	570.5	560.5	557.9	565.2	589.8	592.4
32.5°	576.5	567.2	544.6	535.2	535.9	537.2	531.9	531.9	538.6	551.9	551.2
35°	527.9	521.9	518.0	511.3	510.6	508.0	508.0	509.3	516.6	521.3	512.6
37.5°	481.4	487.4	492.0	485.4	480.1	480.1	480.1	486.0	492.7	490.7	476.1
40°	440.2	452.8	467.4	460.1	447.5	446.8	449.5	459.4	469.4	457.5	444.2
42.5°	404.9	420.9	441.5	437.5	423.5	421.5	423.5	436.2	444.2	428.9	414.2
45°	370.3	390.3	414.9	414.9	399.6	397.6	398.3	414.9	419.6	401.6	383.0
47.5°	341.1	363.0	389.0	389.0	376.3	372.3	375.7	393.0	396.3	371.0	353.7
50°	313.2	337.1	365.7	363.7	355.1	351.7	357.7	376.3	372.3	344.4	326.5
52.5°	277.9	303.2	342.4	344.4	339.8	340.4	347.7	359.7	348.4	314.5	299.2
55°	246.0	271.9	311.2	321.8	321.8	321.1	324.5	333.8	324.5	283.9	265.3
57.5°	211.4	233.4	266.0	268.6	270.6	263.3	268.0	280.6	275.9	241.4	230.7
60°	173.5	192.2	210.8	212.8	204.1	188.8	197.5	212.1	215.4	189.5	177.5
62.5°	123.0	141.0	162.9	162.9	154.3	139.0	150.3	162.9	158.2	131.7	124.3
65°	91.8	108.4	125.0	132.3	125.0	114.4	123.0	132.3	125.0	103.1	92.4
67.5°	59.2	70.5	80.5	86.4	87.8	86.4	90.4	87.8	79.1	64.5	58.5
70°	35.9	41.9	47.2	52.5	56.5	58.5	60.5	54.5	45.9	37.9	35.9
72.5°	25.9	31.3	35.9	39.9	44.5	45.9	45.9	41.9	33.9	26.6	24.6
75°	18.0	22.6	26.6	29.3	33.2	34.6	34.6	31.3	25.3	19.3	17.3
77.5°	0.7	4.7	4.7	4.0	5.3	6.6	6.6	8.0	7.3	5.3	4.7
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	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	742.7	766.6	773.3	797.9	819.8	841.8	868.4	884.3	908.3	924.9	934.2
5°	669.6	689.5	713.4	750.0	787.9	829.8	880.3	924.2	979.4	1020.0	1033.3
7.5°	616.4	642.3	670.2	716.1	768.0	823.8	895.0	966.8	1051.2	1106.4	1141.6
10°	606.4	633.0	670.2	715.4	770.0	833.8	920.9	1014.0	1119.7	1186.8	1226.7
12.5°	654.3	682.9	698.8	719.4	760.6	831.8	943.5	1061.8	1186.2	1259.3	1301.9
15°	724.7	750.0	724.1	698.1	724.7	810.5	956.1	1101.7	1244.7	1329.1	1373.0
17.5°	773.3	775.3	718.8	663.6	670.9	771.9	960.8	1141.6	1307.2	1395.6	1441.5
20°	768.6	752.7	695.5	634.3	611.7	722.1	955.5	1176.9	1370.4	1462.8	1508.0
22.5°	732.7	714.1	665.6	605.7	561.8	662.9	946.2	1208.8	1428.2	1533.3	1575.8
25°	689.5	669.6	629.7	577.1	529.9	605.7	938.8	1252.7	1501.3	1625.0	1658.3
27.5°	639.0	621.7	587.8	549.9	516.6	562.5	936.8	1310.5	1589.8	1736.7	1760.0
30°	589.8	573.8	547.2	525.3	511.3	537.2	930.2	1372.4	1695.5	1865.0	1890.3
32.5°	542.6	526.6	510.0	506.7	507.3	527.9	907.6	1433.5	1821.2	2051.2	2069.8
35°	502.0	483.4	476.7	484.7	499.3	512.0	843.8	1484.1	1956.1	2254.0	2269.3
37.5°	463.4	444.8	444.2	463.4	479.4	487.4	768.6	1533.9	2138.3	2460.1	2479.4
40°	428.2	409.6	416.2	439.5	452.1	456.1	677.5	1609.7	2331.1	2677.6	2666.9
42.5°	398.3	379.0	383.0	412.9	424.2	434.8	593.8	1672.9	2516.6	2883.7	2880.3
45°	369.0	354.4	351.7	384.3	394.3	436.8	532.6	1721.4	2755.3	3146.3	3151.6
47.5°	340.4	329.1	329.8	343.8	368.4	446.8	480.7	1753.3	3101.8	3562.5	3470.1
50°	314.5	305.9	313.2	297.2	351.7	434.2	436.2	1746.7	3488.7	3961.5	3776.0
52.5°	285.9	283.9	287.2	248.7	325.1	383.0	394.3	1658.3	3670.2	4234.1	4128.4
55°	256.7	256.0	229.4	198.8	271.9	305.9	337.8	1383.7	3664.3	4379.0	4507.4
57.5°	222.1	216.8	174.2	162.2	211.4	212.8	307.8	906.3	3247.4	4032.0	4297.9
60°	168.2	164.2	127.7	131.7	147.6	136.3	245.3	451.5	2426.9	3141.0	3440.9
62.5°	116.4	111.0	95.1	101.7	95.1	77.8	150.3	223.4	1470.1	1983.4	2255.3
65°	85.1	79.1	65.2	55.9	44.5	44.5	57.2	85.8	569.2	843.1	1016.6
67.5°	52.5	49.9	38.6	27.9	27.3	29.3	29.9	42.6	91.8	146.3	178.9
70°	33.9	31.3	25.9	18.0	16.6	17.3	18.0	19.9	23.3	25.3	30.6
72.5°	23.3	21.9	18.6	10.0	8.0	8.6	9.3	9.3	11.3	10.6	12.6
75°	16.6	15.3	13.3	4.7	2.7	3.3	4.0	3.3	4.0	2.7	3.3
77.5°	4.7	4.7	3.3	0.7	0.0	0.7	1.3	1.3	0.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	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	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	0.0



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CATALOG NUMBER: GWS-SA2D-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	958.1	973.4	979.4	970.8	978.1	966.1	961.4	943.5	942.2	938.8
5°	1087.1	1121.7	1142.3	1154.9	1140.3	1124.3	1100.4	1059.2	1046.6	1038.6
7.5°	1214.1	1268.0	1303.2	1319.8	1315.8	1283.3	1240.0	1170.9	1146.3	1134.3
10°	1324.5	1390.3	1432.9	1453.5	1444.8	1416.2	1354.4	1268.0	1235.4	1228.1
12.5°	1401.6	1462.1	1491.4	1509.3	1510.0	1498.7	1440.2	1353.1	1314.5	1305.2
15°	1450.1	1476.1	1476.7	1487.4	1506.0	1531.3	1504.0	1426.9	1385.7	1371.7
17.5°	1480.7	1452.1	1422.9	1425.5	1456.1	1523.3	1551.2	1492.0	1448.2	1432.9
20°	1502.7	1412.2	1357.7	1358.4	1389.6	1491.4	1583.8	1555.2	1510.0	1496.0
22.5°	1516.6	1377.0	1299.2	1297.2	1330.5	1453.5	1613.7	1630.3	1585.8	1569.8
25°	1545.2	1360.4	1264.0	1275.3	1304.5	1441.5	1654.3	1730.1	1688.8	1667.6
27.5°	1596.4	1377.0	1260.7	1286.6	1319.8	1476.7	1724.8	1863.1	1820.5	1796.6
30°	1684.9	1439.5	1311.8	1347.8	1387.6	1569.2	1843.1	2048.6	1987.4	1964.8
32.5°	1827.1	1569.2	1470.1	1547.2	1585.8	1720.8	2020.6	2256.7	2206.8	2161.6
35°	2023.3	1865.0	1853.7	2033.3	2024.0	2008.0	2238.7	2512.0	2436.9	2393.0
37.5°	2293.2	2341.1	2424.9	2603.1	2597.1	2475.4	2525.3	2753.4	2714.8	2658.3
40°	2630.3	2732.1	2874.4	3129.7	3049.9	2897.0	2877.0	3000.7	2969.4	2903.0
42.5°	2829.2	3004.7	3276.0	3505.4	3441.5	3174.2	3151.6	3331.2	3262.7	3190.2
45°	2921.6	3226.8	3758.7	4069.2	3875.7	3358.4	3349.8	3762.0	3723.4	3626.4
47.5°	2964.1	3450.8	4323.8	4793.9	4432.2	3520.0	3488.7	4387.0	4336.5	4222.1
50°	3011.3	3760.0	5004.7	5633.7	5104.4	3702.8	3725.4	4969.5	4948.2	4813.2
52.5°	3115.1	4087.1	5843.1	6593.8	5919.6	3989.4	4131.7	5518.7	5375.1	5219.5
55°	3270.6	4443.5	6715.5	7574.5	6751.4	4374.4	4571.2	5810.6	5407.6	5235.4
57.5°	3098.4	4532.6	7232.1	8259.4	7120.4	4375.7	4199.5	5304.6	4756.0	4589.1
60°	2458.8	4216.8	7033.3	8111.1	6805.9	3885.7	3215.5	4141.7	3603.1	3491.4
62.5°	1662.3	3536.6	6191.6	6859.8	5825.2	3056.5	2089.8	2693.5	2230.7	2138.3
65°	910.9	2638.3	5002.7	5189.5	4559.2	2135.0	1075.1	1168.9	890.3	849.1
67.5°	251.3	1836.5	3680.9	3442.9	3198.8	1390.3	277.9	208.8	148.9	147.6
70°	63.2	1214.8	2205.5	2273.3	1961.5	890.3	53.2	25.3	19.9	19.3
72.5°	26.6	522.6	1046.6	1202.8	1004.0	412.2	19.3	7.3	6.0	4.7
75°	3.3	41.9	89.1	135.0	92.4	44.5	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
80°	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
85°	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
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			

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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

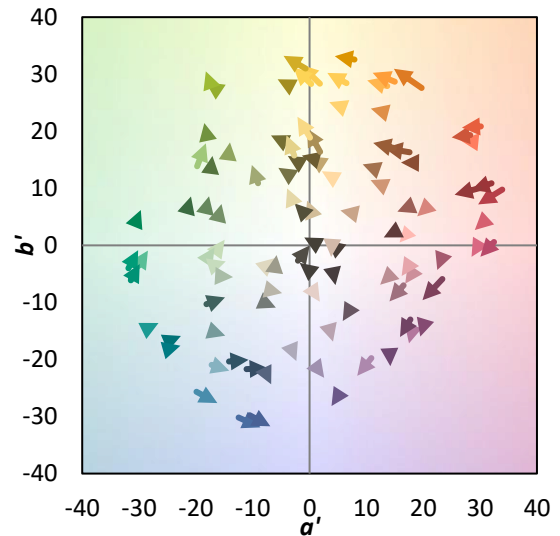
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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)