

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: P642443

Luminaire Tested: GWS-SA6C-830-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-830-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

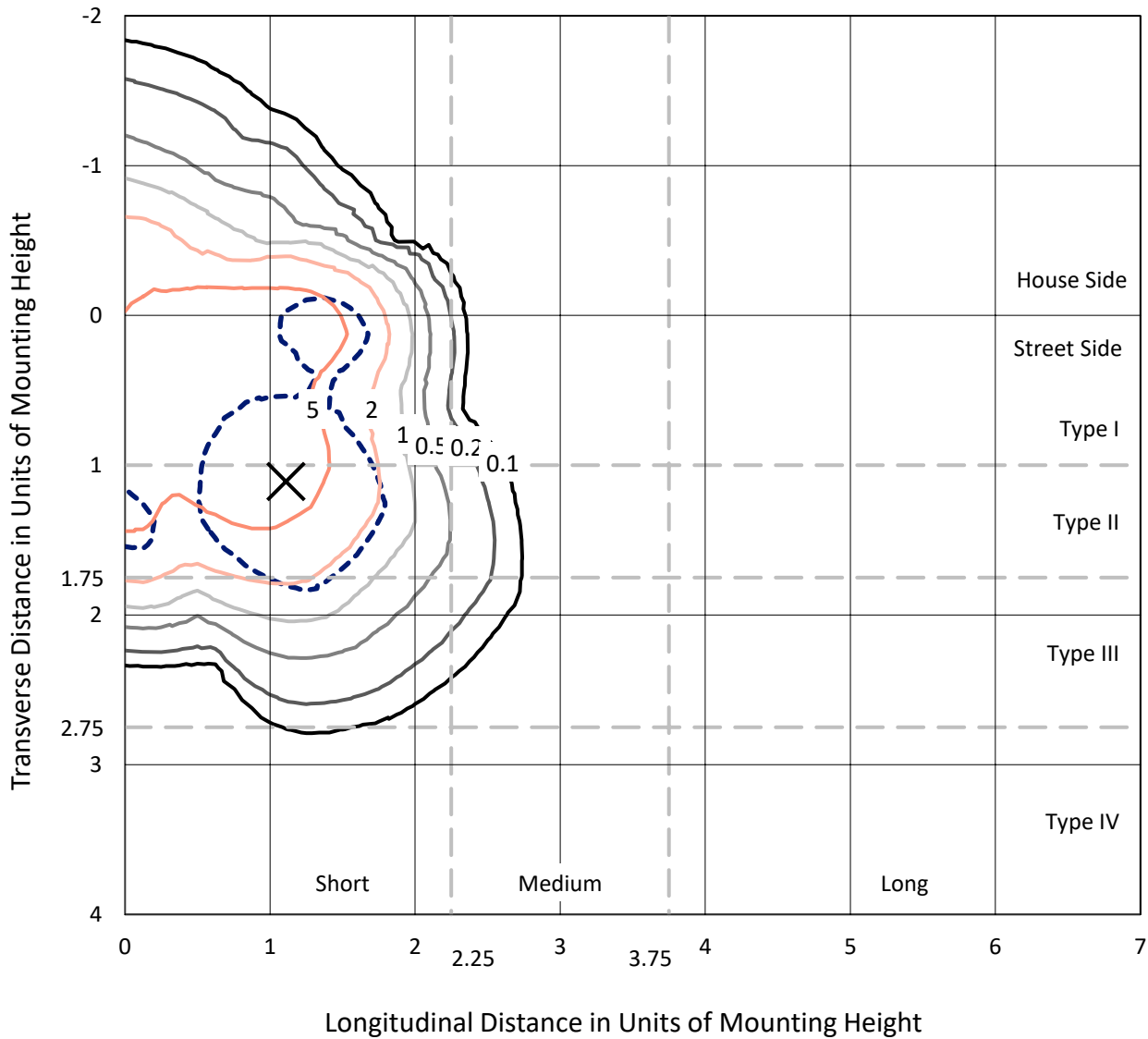
Lumens per Lamp: N/A  
Luminaire Lumens: 12033.8 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

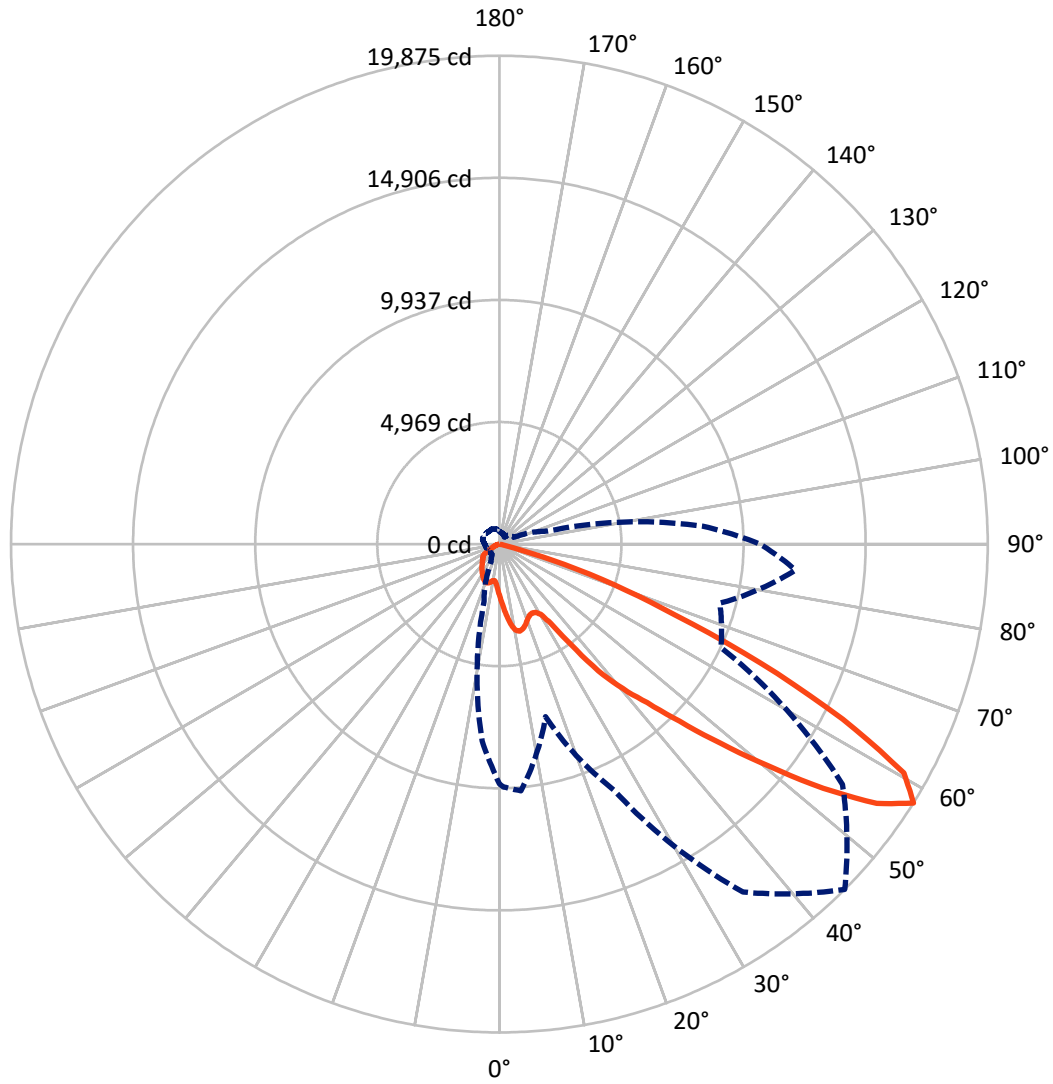
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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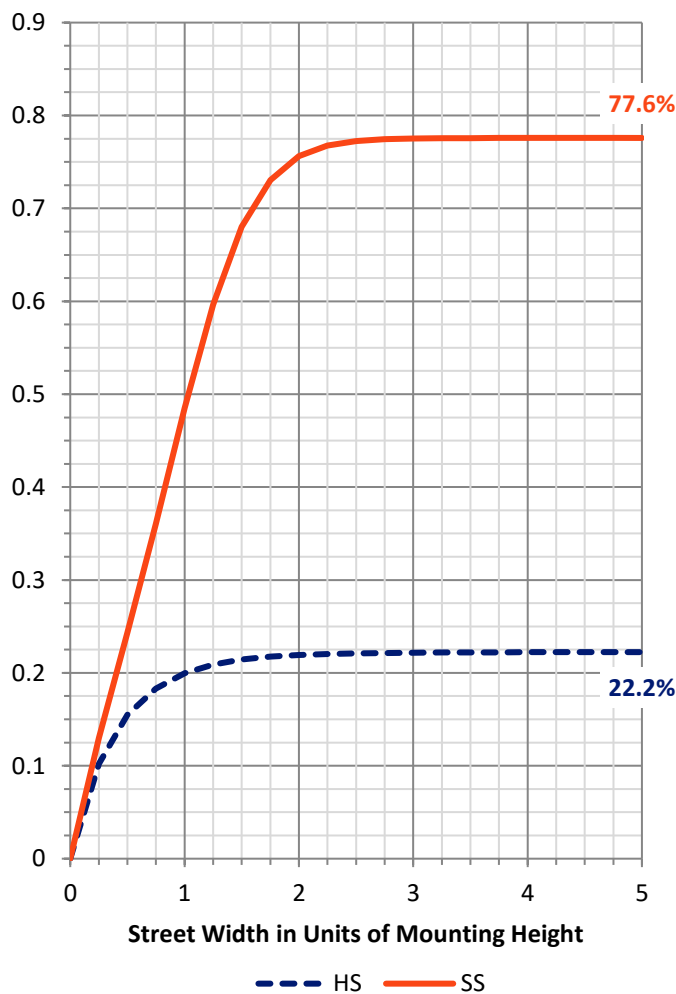
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2694.7	0.0	2694.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9339.1	0.0	9339.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	12033.8	0.0	12033.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.1	1.7
10°-20°	673.1	5.6
20°-30°	1093.4	9.1
30°-40°	1689.5	14.0
40°-50°	2709.1	22.5
50°-60°	3702.6	30.8
60°-70°	1793.3	14.9
70°-80°	164.2	1.4
80°-90°	0.5	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°	12033.8	100.0
0°-180°	12033.8	100.0

**Coefficient of Utilization**



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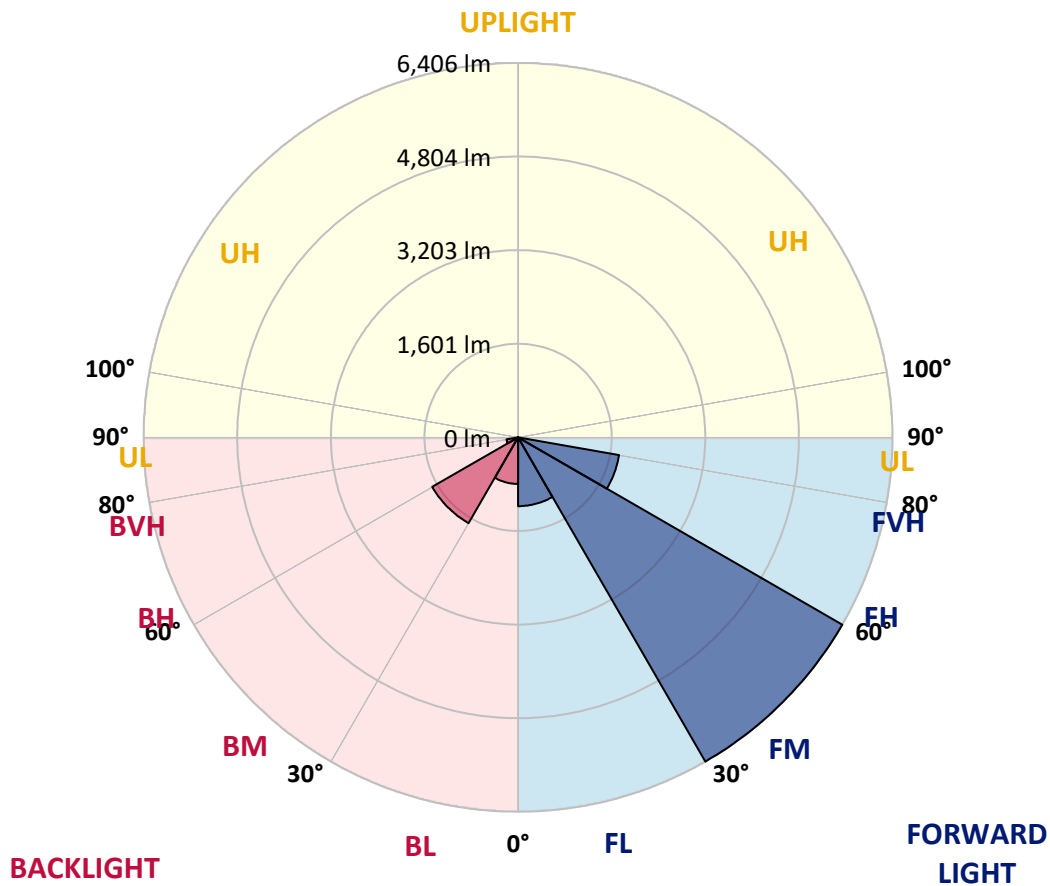
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.3	9.8			
FM (30°-60°)	6405.9	53.2			
FH (60°-80°)	1755.5	14.6			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	797.3	6.6	B2/1000		
BM (30°-60°)	1695.4	14.1	B2/2500		
BH (60°-80°)	202.0	1.7	B1/500		G1/500
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: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1
2.5°	2291.3	2305.9	2330.1	2381.9	2425.5	2454.6	2467.6	2464.3	2446.6	2433.6	2407.8
5°	2537.1	2537.1	2584.0	2702.0	2792.6	2849.2	2878.3	2860.5	2824.9	2768.3	2681.0
7.5°	2752.2	2760.3	2839.5	3007.7	3145.1	3226.0	3272.9	3263.2	3200.1	3091.8	2917.1
10°	2920.3	2930.1	3035.2	3240.5	3402.2	3484.7	3554.2	3560.7	3491.2	3347.2	3146.7
12.5°	3083.7	3093.4	3203.3	3400.6	3542.9	3576.9	3638.3	3662.6	3644.8	3542.9	3334.3
15°	3259.9	3282.6	3376.3	3523.5	3583.3	3542.9	3583.3	3627.0	3686.8	3677.1	3489.5
17.5°	3432.9	3449.1	3544.5	3596.3	3530.0	3424.9	3444.3	3496.0	3631.8	3764.4	3643.2
20°	3593.0	3615.7	3694.9	3627.0	3426.5	3263.2	3264.8	3332.7	3539.7	3817.8	3800.0
22.5°	3761.2	3795.2	3851.8	3660.9	3331.1	3135.4	3143.5	3204.9	3466.9	3867.9	3977.9
25°	3981.1	4013.5	4050.6	3745.0	3300.3	3072.3	3103.1	3159.7	3466.9	3953.6	4197.8
27.5°	4278.6	4301.3	4302.9	3901.9	3353.7	3082.1	3146.7	3211.4	3570.4	4125.0	4492.1
30°	4652.2	4687.8	4640.9	4146.1	3520.3	3211.4	3306.8	3387.7	3793.5	4414.5	4925.5
32.5°	5106.6	5156.7	5093.6	4508.3	3867.9	3657.7	3830.7	3877.6	4149.3	4833.3	5417.0
35°	5640.2	5682.2	5614.3	5009.5	4679.7	4718.5	5032.2	4972.4	4864.0	5349.1	5991.1
37.5°	6225.5	6264.4	6133.4	5769.5	5879.5	6047.7	6549.0	6343.6	5994.3	6013.7	6613.6
40°	6762.4	6804.4	6599.1	6595.8	6822.2	7129.5	7734.2	7451.3	6975.8	6883.7	7197.4
42.5°	7318.7	7347.8	7161.8	7035.7	7549.9	8182.1	8822.5	8440.9	7625.9	7525.6	7928.3
45°	8112.6	8174.1	7842.6	7252.4	8204.8	9393.3	10285.9	9540.5	8069.0	7988.1	9047.3
47.5°	9280.1	9325.4	8649.5	7388.2	8814.4	10902.0	12114.8	10966.7	8458.7	8274.3	10577.0
50°	10245.5	10276.2	9391.7	7537.0	9462.8	12528.7	14199.1	12658.1	8896.9	8748.1	12004.8
52.5°	10957.0	11073.4	10366.8	7842.6	10315.0	14441.7	16506.6	14661.6	9580.9	9663.3	13188.5
55°	11104.1	11262.6	11033.0	8030.1	11065.3	16390.2	18637.8	16454.9	10263.3	10357.0	13586.2
57.5°	9758.7	9884.9	10075.7	7273.4	11047.5	17282.8	19874.9	17049.9	9952.8	9288.2	12097.0
60°	7310.6	7397.9	7743.9	5559.3	10159.8	16493.7	18911.1	16037.7	8702.8	7087.4	9217.0
62.5°	4335.2	4374.1	4812.3	3601.1	8432.8	14204.0	15683.5	13838.5	6877.2	4767.0	5645.0
65°	1663.9	1647.7	1982.5	1777.1	6201.3	11314.3	11665.2	10549.5	4718.5	2184.6	2152.3
67.5°	257.1	245.8	331.5	525.5	4472.7	7841.0	7697.0	7603.3	2955.9	509.4	444.7
70°	58.2	58.2	71.1	155.2	2732.8	4606.9	4930.3	4700.7	1891.9	108.3	58.2
72.5°	27.5	27.5	34.0	66.3	989.6	1898.4	2212.1	2178.1	614.5	35.6	21.0
75°	9.7	11.3	11.3	14.6	59.8	98.6	226.4	161.7	38.8	0.0	0.0
77.5°	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	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°	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1
2.5°	2351.2	2339.8	2297.8	2241.2	2186.2	2137.7	2087.6	2027.8	1984.1	1934.0	1917.8
5°	2613.1	2542.0	2427.2	2307.5	2197.5	2103.8	2013.2	1916.2	1845.0	1773.9	1749.6
7.5°	2834.6	2729.5	2543.6	2364.1	2213.7	2081.1	1950.1	1817.5	1714.0	1630.0	1604.1
10°	3033.5	2912.3	2663.2	2441.7	2252.5	2098.9	1940.4	1773.9	1639.7	1539.4	1515.2
12.5°	3204.9	3064.3	2765.1	2499.9	2268.7	2092.4	1938.8	1806.2	1684.9	1570.1	1539.4
15°	3348.9	3193.6	2850.8	2538.7	2244.4	2011.6	1877.4	1856.3	1846.6	1720.5	1660.7
17.5°	3489.5	3314.9	2920.3	2556.5	2176.5	1869.3	1772.3	1867.7	1969.5	1887.1	1811.1
20°	3636.7	3437.8	2991.5	2559.8	2063.3	1709.2	1693.0	1843.4	1972.8	1946.9	1875.7
22.5°	3809.7	3591.4	3080.4	2558.1	1921.0	1573.4	1634.8	1796.5	1901.6	1900.0	1843.4
25°	4060.4	3785.5	3200.1	2567.8	1765.8	1468.3	1570.1	1717.3	1803.0	1799.7	1752.9
27.5°	4328.8	4016.7	3355.3	2592.1	1633.2	1406.8	1494.1	1608.9	1683.3	1680.1	1639.7
30°	4705.5	4283.5	3504.1	2593.7	1537.8	1374.5	1410.0	1489.3	1560.4	1552.3	1521.6
32.5°	5163.2	4584.3	3628.6	2501.5	1478.0	1343.7	1322.7	1363.2	1418.1	1406.8	1398.7
35°	5716.2	4941.6	3735.3	2299.4	1385.8	1282.3	1225.7	1233.8	1272.6	1279.1	1275.8
37.5°	6346.8	5366.9	3867.9	2032.6	1261.3	1193.4	1117.4	1110.9	1133.5	1154.6	1170.7
40°	6969.4	5845.5	4047.4	1762.6	1148.1	1080.2	1007.4	991.2	1000.9	1038.1	1072.1
42.5°	7669.6	6400.2	4241.5	1531.3	1070.5	955.7	886.1	855.4	882.9	942.7	983.2
45°	8678.6	7178.0	4430.7	1347.0	1038.1	845.7	751.9	748.7	779.4	857.0	902.3
47.5°	10095.1	8183.8	4555.2	1203.1	1036.5	760.0	648.4	667.8	703.4	779.4	831.2
50°	11476.0	9443.4	4417.7	1093.1	1002.6	703.4	570.8	609.6	645.2	711.5	764.9
52.5°	12308.8	10121.0	3882.5	989.6	897.4	677.5	494.8	562.7	569.2	629.0	685.6
55°	12221.5	9682.7	2973.7	829.5	742.2	640.3	415.6	507.7	511.0	556.3	604.8
57.5°	10607.7	8313.1	2042.3	672.7	557.9	528.8	342.8	428.5	459.2	486.7	522.3
60°	7905.6	6065.5	910.4	546.6	354.1	357.4	292.7	323.4	370.3	402.6	433.4
62.5°	4658.7	3489.5	370.3	328.3	195.7	224.8	236.1	236.1	265.2	289.4	308.9
65°	1760.9	1220.9	150.4	164.9	101.9	105.1	139.1	171.4	194.0	215.1	240.9
67.5°	308.9	213.4	77.6	61.4	59.8	53.4	71.1	111.6	124.5	140.7	152.0
70°	51.7	43.7	32.3	30.7	27.5	29.1	46.9	79.2	87.3	92.2	97.0
72.5°	14.6	12.9	9.7	8.1	6.5	8.1	29.1	61.4	64.7	67.9	72.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	11.3	43.7	46.9	48.5	53.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	12.9	16.2	12.9
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°	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1
2.5°	1908.1	1875.7	1858.0	1848.3	1848.3	1835.3	1820.8	1815.9	1836.9	1836.9	1872.5
5°	1718.9	1693.0	1663.9	1646.1	1618.6	1623.5	1607.3	1605.7	1626.7	1636.4	1673.6
7.5°	1587.9	1555.6	1537.8	1526.5	1511.9	1505.5	1490.9	1486.0	1497.4	1513.5	1549.1
10°	1500.6	1495.7	1494.1	1502.2	1502.2	1494.1	1481.2	1473.1	1476.3	1507.1	1547.5
12.5°	1523.2	1532.9	1536.2	1549.1	1555.6	1549.1	1539.4	1542.6	1563.7	1620.3	1680.1
15°	1621.9	1613.8	1610.6	1617.0	1621.9	1615.4	1612.2	1636.4	1709.2	1790.0	1858.0
17.5°	1727.0	1675.2	1652.6	1652.6	1655.8	1652.6	1655.8	1702.7	1820.8	1901.6	1951.7
20°	1780.3	1684.9	1649.4	1641.3	1647.7	1649.4	1660.7	1714.0	1843.4	1900.0	1911.3
22.5°	1764.2	1644.5	1604.1	1597.6	1604.1	1610.6	1621.9	1667.2	1788.4	1817.5	1812.7
25°	1683.3	1565.3	1532.9	1532.9	1547.5	1545.9	1550.7	1583.1	1683.3	1701.1	1693.0
27.5°	1581.5	1469.9	1442.4	1458.6	1471.5	1468.3	1469.9	1497.4	1571.7	1576.6	1568.5
30°	1478.0	1380.9	1355.1	1374.5	1392.3	1389.0	1390.6	1418.1	1465.0	1460.2	1448.9
32.5°	1372.9	1301.7	1282.3	1293.6	1321.1	1317.9	1324.3	1353.5	1371.2	1350.2	1337.3
35°	1275.8	1238.6	1224.1	1230.6	1251.6	1256.4	1267.7	1287.2	1287.2	1261.3	1238.6
37.5°	1185.3	1180.4	1170.7	1162.6	1182.0	1196.6	1212.8	1235.4	1203.1	1165.9	1144.9
40°	1101.2	1122.2	1109.3	1088.3	1099.6	1120.6	1152.9	1170.7	1131.9	1094.7	1059.2
42.5°	1023.6	1059.2	1054.3	1028.4	1038.1	1057.5	1094.7	1109.3	1064.0	1022.0	988.0
45°	949.2	999.3	1002.6	970.2	979.9	999.3	1043.0	1047.8	989.6	944.3	920.1
47.5°	884.5	939.5	941.1	916.9	920.1	947.6	988.0	989.6	923.3	881.3	850.6
50°	823.1	886.1	891.0	870.0	873.2	905.5	939.5	933.0	861.9	818.2	790.7
52.5°	748.7	834.4	845.7	836.0	848.9	874.8	895.8	873.2	790.7	747.1	722.8
55°	667.8	779.4	803.7	797.2	811.7	832.8	837.6	823.1	719.6	675.9	653.3
57.5°	574.0	642.0	684.0	671.1	682.4	703.4	718.0	706.6	629.0	595.1	575.7
60°	475.4	520.7	530.4	509.4	499.7	536.9	570.8	556.3	490.0	468.9	446.3
62.5°	347.7	399.4	405.9	378.4	367.1	407.5	436.6	422.0	349.3	326.6	308.9
65°	278.1	326.6	339.6	313.7	307.2	338.0	355.7	320.2	268.4	244.2	224.8
67.5°	182.7	221.5	255.5	253.9	240.9	250.6	237.7	208.6	171.4	158.5	145.5
70°	113.2	135.8	156.9	164.9	163.3	160.1	142.3	121.3	110.0	105.1	98.6
72.5°	87.3	110.0	126.1	131.0	132.6	127.7	113.2	93.8	82.5	76.0	71.1
75°	64.7	82.5	95.4	101.9	105.1	101.9	87.3	74.4	63.1	58.2	53.4
77.5°	22.6	27.5	34.0	37.2	35.6	34.0	30.7	30.7	24.3	22.6	19.4
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



REPORT NUMBER: P642443

CATALOG NUMBER: GWS-SA6C-830-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1	2115.1
2.5°	1912.9	1942.0	1995.4	2043.9	2095.7	2149.0	2207.2	2267.1	2294.6	2291.3
5°	1730.2	1793.3	1880.6	1976.0	2082.7	2197.5	2325.3	2456.3	2512.9	2537.1
7.5°	1615.4	1704.3	1819.2	1940.4	2081.1	2244.4	2436.9	2642.2	2724.7	2752.2
10°	1630.0	1733.5	1828.9	1946.9	2097.3	2309.1	2548.4	2792.6	2889.6	2920.3
12.5°	1748.0	1770.6	1796.5	1893.5	2082.7	2357.6	2650.3	2941.4	3052.9	3083.7
15°	1854.7	1749.6	1701.1	1790.0	2031.0	2391.6	2753.8	3101.5	3224.3	3259.9
17.5°	1859.6	1701.1	1592.8	1662.3	1946.9	2406.1	2855.7	3264.8	3399.0	3432.9
20°	1799.7	1647.7	1508.7	1510.3	1832.1	2402.9	2939.8	3411.9	3562.3	3593.0
22.5°	1712.4	1584.7	1440.8	1390.6	1709.2	2396.4	3031.9	3568.8	3732.1	3761.2
25°	1615.4	1503.8	1376.1	1300.1	1586.3	2402.9	3161.3	3774.1	3953.6	3981.1
27.5°	1510.3	1414.9	1326.0	1264.5	1482.8	2427.2	3316.5	4036.1	4249.5	4278.6
30°	1400.3	1329.2	1293.6	1256.4	1418.1	2433.6	3484.7	4341.7	4611.8	4652.2
32.5°	1292.0	1253.2	1254.8	1261.3	1356.7	2388.3	3638.3	4681.3	5041.9	5106.6
35°	1191.7	1180.4	1212.8	1245.1	1267.7	2271.9	3772.5	5082.3	5573.9	5640.2
37.5°	1106.0	1115.7	1156.2	1188.5	1170.7	2107.0	3950.4	5583.6	6169.0	6225.5
40°	1023.6	1047.8	1094.7	1109.3	1096.3	1914.6	4163.8	6067.1	6684.8	6762.4
42.5°	947.6	965.4	1031.7	1034.9	1075.3	1718.9	4369.2	6587.8	7278.2	7318.7
45°	886.1	882.9	950.8	971.8	1102.8	1502.2	4569.7	7281.5	8054.4	8112.6
47.5°	826.3	823.1	839.2	934.6	1114.1	1301.7	4768.6	8297.0	9179.9	9280.1
50°	769.7	774.6	724.4	916.9	1052.7	1148.1	4859.2	9236.5	10203.4	10245.5
52.5°	719.6	701.8	614.5	858.6	921.7	1002.6	4602.1	9663.3	10837.3	10957.0
55°	648.4	549.8	506.1	696.9	727.7	874.8	3769.3	9415.9	10892.3	11104.1
57.5°	554.6	431.7	430.1	514.2	514.2	811.7	2414.2	8044.7	9386.8	9758.7
60°	426.9	334.7	355.7	357.4	329.9	591.8	1355.1	5827.8	6940.3	7310.6
62.5°	304.0	255.5	268.4	213.4	189.2	295.9	650.0	3355.3	4283.5	4335.2
65°	203.7	173.0	140.7	118.0	116.4	126.1	268.4	1212.8	1474.7	1663.9
67.5°	134.2	105.1	74.4	74.4	84.1	84.1	101.9	200.5	281.4	257.1
70°	87.3	72.8	46.9	45.3	55.0	55.0	51.7	55.0	58.2	58.2
72.5°	64.7	55.0	27.5	24.3	30.7	32.3	29.1	27.5	27.5	27.5
75°	48.5	38.8	16.2	11.3	14.6	19.4	16.2	11.3	11.3	9.7
77.5°	19.4	14.6	6.5	4.9	8.1	11.3	9.7	4.9	3.2	3.2
80°	1.6	3.2	3.2	3.2	4.9	6.5	8.1	3.2	1.6	1.6
82.5°	0.0	1.6	1.6	1.6	3.2	4.9	6.5	3.2	1.6	1.6
85°	0.0	0.0	0.0	0.0	3.2	4.9	3.2	1.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.6	4.9	3.2	1.6	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

REPORT NUMBER: SP1-2408-195-9

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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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

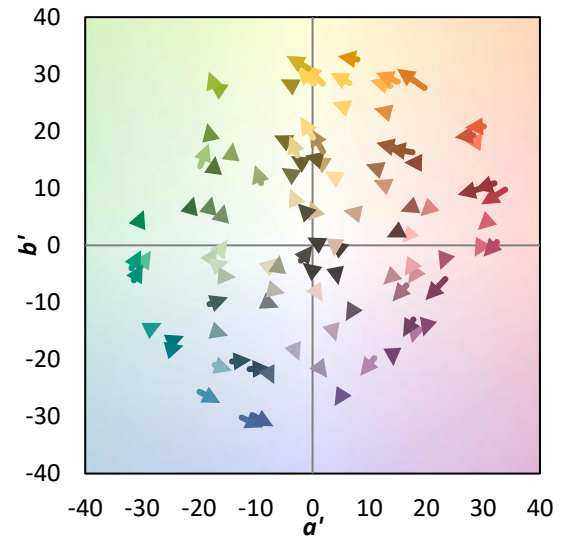
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	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)