

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: P635019

Luminaire Tested: GWS-SA3C-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8670 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

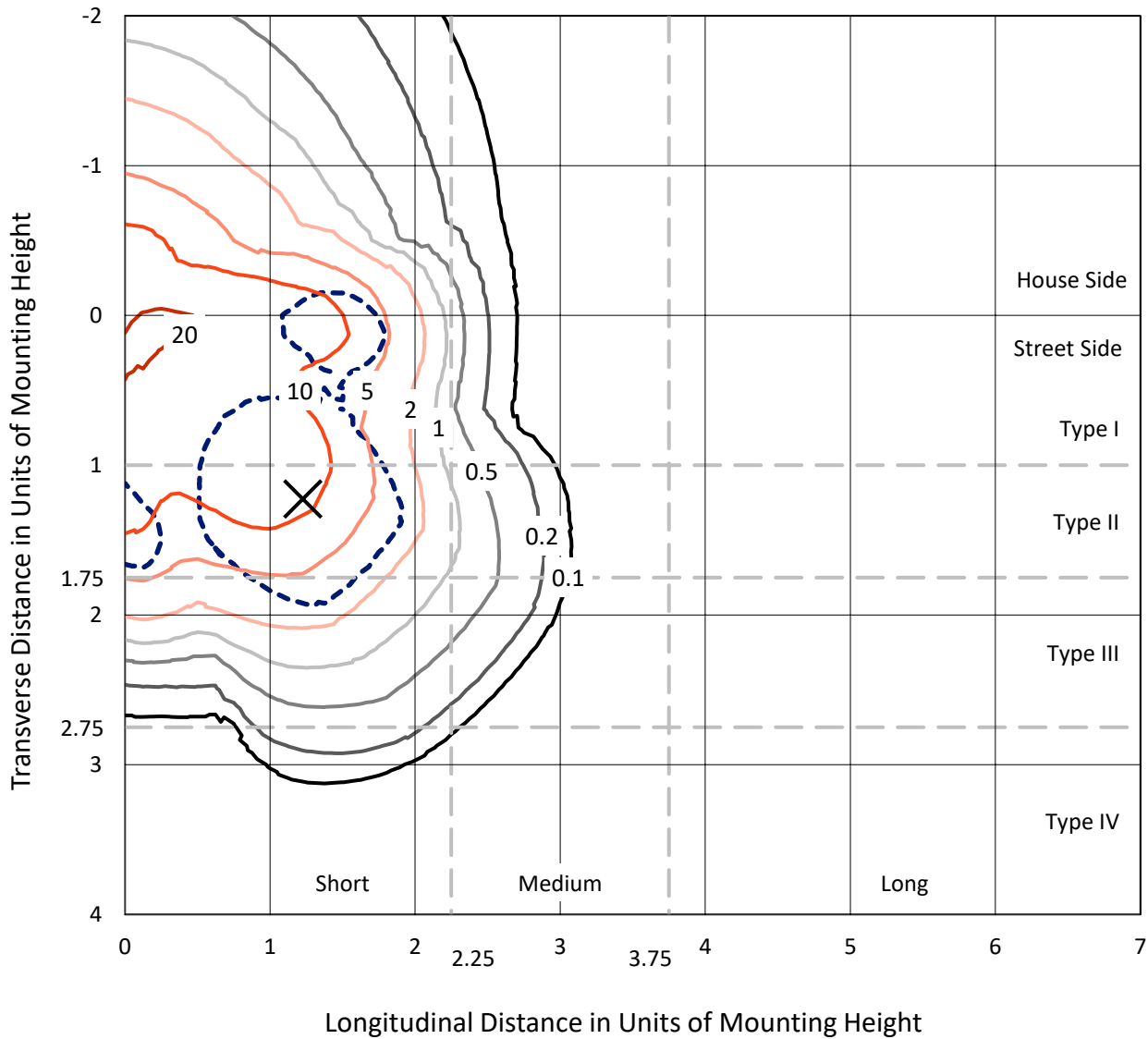
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

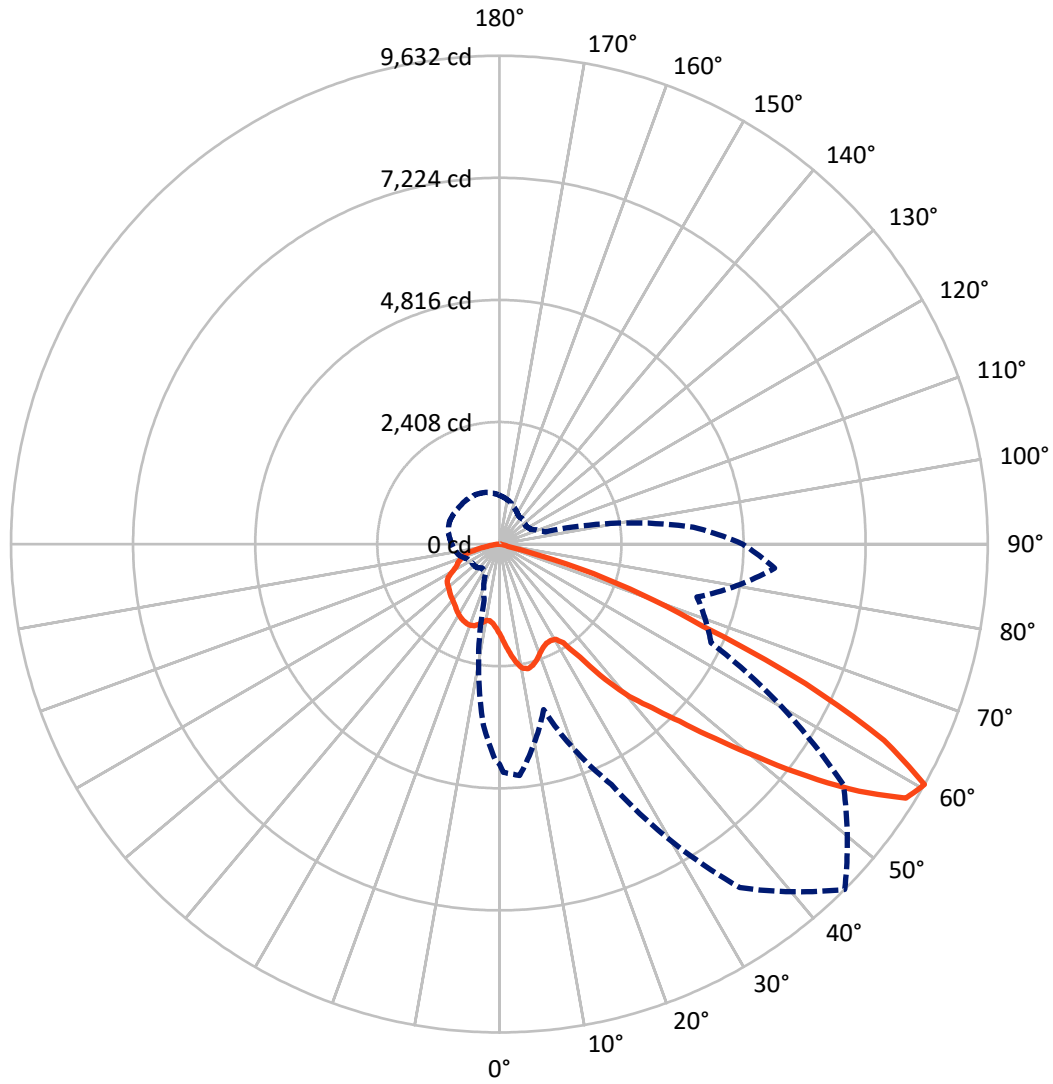
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3039.2	0.0	3039.2
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	5630.9	0.0	5630.9
	% Fixture	64.9	0.0	64.9
Total	Lumens	8670.0	0.0	8670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	2.0
10°-20°	549.1	6.3
20°-30°	892.0	10.3
30°-40°	1258.0	14.5
40°-50°	1738.5	20.1
50°-60°	2237.9	25.8
60°-70°	1418.0	16.4
70°-80°	363.9	4.2
80°-90°	38.9	0.4
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°	8670.0	100.0
0°-180°	8670.0	100.0

Coefficient of Utilization



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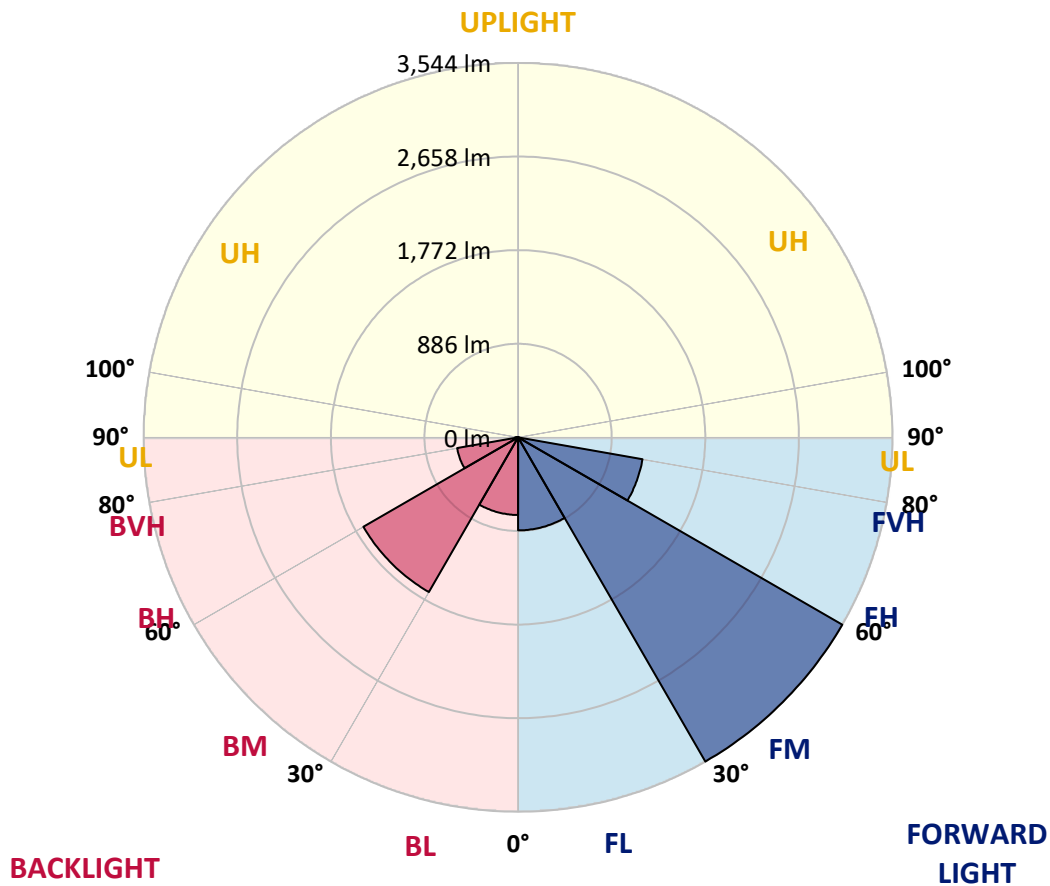
CATALOG NUMBER: GWS-SA3C-830-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.3	10.2			
FM (30°-60°)	3543.8	40.9			
FH (60°-80°)	1196.2	13.8			G1/1800
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	734.5	8.5	B2/1000		
BM (30°-60°)	1690.6	19.5	B2/2500		
BH (60°-80°)	585.7	6.8	B2/1000		G2/1000
BVH (80°-90°)	28.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1
2.5°	1862.9	1875.6	1883.6	1898.6	1925.7	1940.7	1957.4	1939.2	1943.9	1941.5	1912.2
5°	1973.3	1988.4	2009.1	2053.6	2103.6	2131.4	2157.6	2153.7	2129.0	2087.7	2058.3
7.5°	2076.6	2094.1	2129.8	2202.1	2276.0	2318.9	2350.7	2330.0	2309.4	2244.2	2170.3
10°	2157.6	2168.0	2216.4	2313.3	2399.1	2447.6	2486.5	2481.7	2453.1	2380.1	2280.8
12.5°	2233.9	2241.0	2293.5	2390.4	2467.4	2488.9	2520.7	2531.0	2521.5	2466.6	2368.9
15°	2315.7	2329.2	2377.7	2451.6	2486.5	2464.3	2475.4	2504.0	2531.0	2531.0	2441.2
17.5°	2392.0	2403.9	2453.1	2484.9	2451.6	2392.8	2395.9	2432.5	2496.8	2564.4	2507.2
20°	2459.5	2470.6	2519.1	2488.9	2383.2	2297.4	2295.1	2339.5	2443.6	2585.8	2577.9
22.5°	2533.4	2549.3	2589.8	2492.1	2319.7	2210.8	2210.1	2256.1	2396.7	2607.3	2658.9
25°	2638.2	2662.9	2683.5	2519.9	2285.5	2154.4	2164.8	2208.5	2381.6	2642.2	2778.9
27.5°	2793.9	2813.8	2812.2	2577.9	2283.9	2131.4	2152.9	2203.7	2408.7	2704.2	2905.2
30°	2962.4	2972.7	2956.0	2658.9	2320.5	2145.7	2177.5	2237.9	2477.0	2806.7	3091.1
32.5°	3149.0	3161.8	3130.0	2780.4	2405.5	2251.4	2321.3	2350.7	2573.1	2954.4	3288.1
35°	3363.5	3388.2	3322.2	2940.9	2655.7	2636.7	2738.3	2700.2	2777.3	3129.2	3498.6
37.5°	3589.2	3589.9	3495.4	3178.4	3146.7	3179.2	3382.6	3263.4	3210.2	3323.8	3713.1
40°	3780.6	3775.8	3630.5	3498.6	3574.1	3703.5	3949.0	3766.3	3626.5	3585.2	3891.0
42.5°	3972.1	3954.6	3807.6	3702.0	3868.8	4134.9	4412.2	4188.1	3893.4	3822.7	4066.6
45°	4216.7	4211.2	4034.0	3783.0	4134.9	4617.9	4985.7	4622.7	4051.5	3960.9	4358.9
47.5°	4611.6	4584.6	4254.9	3776.6	4384.4	5261.4	5726.1	5170.0	4161.9	3964.1	4830.8
50°	4997.6	4964.3	4518.6	3775.8	4641.8	5928.7	6600.0	5835.0	4274.7	3983.2	5310.6
52.5°	5387.7	5387.7	4951.6	3865.6	4911.9	6673.9	7609.7	6663.5	4467.0	4232.6	5900.9
55°	5619.7	5681.6	5438.5	4017.3	5228.0	7550.9	8608.3	7558.0	4764.1	4683.1	6445.9
57.5°	5324.9	5440.9	5406.0	3911.7	5414.7	8195.2	9455.1	8236.5	4911.1	4736.3	6364.0
60°	4339.1	4500.3	4580.6	3377.8	5230.4	8269.8	9632.2	8281.0	4607.6	4033.2	5451.3
62.5°	2884.5	3017.2	3139.5	2413.4	4528.1	7439.7	8519.3	7442.1	3848.1	3010.0	3776.6
65°	1414.8	1513.4	1645.2	1426.8	3537.5	6216.3	6642.1	6013.7	2783.6	1684.9	1926.4
67.5°	370.2	398.0	416.3	553.7	2534.2	4466.2	4331.9	4398.7	1788.2	550.5	503.7
70°	192.2	193.8	193.0	228.8	1712.8	2838.4	2985.4	2762.2	1248.0	230.4	198.6
72.5°	137.4	138.2	135.8	154.1	827.0	1626.2	1684.9	1666.7	653.8	136.6	135.8
75°	89.8	90.6	89.0	90.6	124.7	185.1	170.8	179.5	108.8	86.6	86.6
77.5°	53.2	54.0	53.2	54.8	53.2	53.2	49.3	49.3	46.9	46.9	47.7
80°	35.7	35.7	35.0	36.5	33.4	33.4	31.8	31.0	28.6	27.8	27.8
82.5°	21.4	22.2	21.4	21.4	19.9	19.9	18.3	17.5	15.1	15.1	14.3
85°	11.1	11.1	10.3	10.3	8.7	7.9	6.4	6.4	4.8	4.0	4.0
87.5°	1.6	1.6	0.8	0.8	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°	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1
2.5°	1904.2	1888.3	1864.5	1841.4	1820.0	1797.8	1772.3	1746.1	1723.9	1700.8	1688.9
5°	2019.4	1986.8	1924.9	1870.0	1820.8	1780.3	1736.6	1699.2	1664.3	1635.7	1621.4
7.5°	2123.5	2072.6	1978.9	1892.3	1825.6	1770.0	1709.6	1654.0	1607.1	1572.1	1558.6
10°	2219.6	2159.2	2036.1	1926.4	1848.6	1786.6	1712.8	1637.3	1575.3	1529.2	1518.1
12.5°	2297.4	2228.3	2081.4	1954.3	1862.1	1795.4	1730.2	1665.1	1603.9	1544.3	1534.8
15°	2366.6	2284.7	2115.5	1971.7	1857.3	1772.3	1717.5	1709.6	1709.6	1642.0	1623.0
17.5°	2426.1	2336.4	2143.3	1979.7	1827.1	1704.0	1670.6	1739.8	1817.6	1769.2	1726.3
20°	2494.5	2385.6	2166.4	1979.7	1771.5	1617.4	1614.2	1731.8	1847.0	1847.8	1802.5
22.5°	2563.6	2442.8	2193.4	1972.5	1695.3	1517.3	1576.1	1700.0	1802.5	1846.2	1815.2
25°	2675.6	2522.3	2236.3	1967.0	1606.3	1449.0	1542.0	1657.9	1744.5	1790.6	1770.7
27.5°	2817.8	2627.1	2301.4	1975.7	1518.1	1408.5	1505.4	1603.1	1681.8	1722.3	1708.0
30°	2976.7	2747.9	2371.3	1990.8	1454.6	1387.8	1461.7	1540.4	1610.3	1650.8	1644.4
32.5°	3179.2	2878.9	2431.7	1970.1	1418.8	1377.5	1415.6	1472.0	1539.6	1565.0	1570.6
35°	3421.5	3023.5	2477.8	1889.1	1386.2	1366.4	1365.6	1400.5	1448.2	1488.7	1492.7
37.5°	3644.8	3192.7	2528.6	1750.1	1327.5	1338.6	1306.8	1327.5	1374.3	1414.8	1430.7
40°	3865.6	3364.3	2599.3	1572.9	1250.4	1276.6	1239.3	1253.6	1290.9	1344.1	1369.6
42.5°	4080.1	3519.2	2674.0	1391.8	1173.3	1190.0	1162.2	1176.5	1215.5	1282.2	1310.8
45°	4313.7	3729.0	2732.0	1221.0	1106.6	1099.5	1077.2	1097.9	1156.7	1229.8	1263.9
47.5°	4755.4	4059.4	2770.1	1107.4	1070.9	1019.2	993.8	1038.3	1105.0	1178.9	1220.2
50°	5294.8	4537.7	2759.0	1035.1	1039.9	936.6	927.9	986.7	1058.2	1135.2	1180.5
52.5°	5722.2	5007.2	2632.7	966.0	979.5	884.2	858.8	944.6	1012.9	1091.5	1138.4
55°	6048.7	5165.3	2245.0	884.2	881.0	846.0	792.8	900.9	967.6	1040.7	1091.5
57.5°	5782.5	4813.3	1664.3	771.4	752.3	770.6	718.9	827.0	912.0	984.3	1029.6
60°	4799.0	3837.8	927.1	683.2	629.2	673.7	665.7	749.1	851.6	927.9	966.8
62.5°	3257.9	2555.6	549.7	540.2	510.0	573.6	615.7	670.5	771.4	833.3	869.9
65°	1623.8	1241.7	365.4	404.4	408.3	471.9	551.3	611.7	695.9	759.5	796.0
67.5°	471.1	386.1	278.0	309.0	351.9	402.8	466.3	537.8	619.6	695.1	738.0
70°	203.4	205.8	220.8	257.4	299.5	351.9	415.5	485.4	554.5	612.5	645.1
72.5°	143.8	149.3	166.0	203.4	243.1	293.1	356.7	424.2	474.3	533.1	567.2
75°	92.2	96.1	109.6	138.2	167.6	216.1	276.5	338.4	390.1	432.2	464.7
77.5°	50.8	51.6	62.8	79.4	99.3	130.3	174.8	223.2	261.4	285.2	314.6
80°	29.4	29.4	35.0	45.3	57.2	76.3	100.9	124.7	147.8	162.9	177.2
82.5°	15.9	15.9	18.3	24.6	31.0	42.1	56.4	68.3	82.6	90.6	100.1
85°	4.8	4.8	6.4	8.7	11.1	15.9	22.2	28.6	35.0	40.5	46.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1
2.5°	1686.5	1675.4	1669.1	1661.1	1663.5	1656.3	1652.4	1654.8	1640.5	1654.8	1669.1
5°	1615.8	1599.9	1587.2	1576.9	1572.1	1562.6	1557.0	1557.0	1548.3	1562.6	1580.1
7.5°	1553.9	1541.2	1534.8	1528.4	1521.3	1512.6	1503.0	1499.9	1494.3	1509.4	1524.5
10°	1512.6	1514.1	1518.1	1526.9	1525.3	1519.7	1505.4	1497.5	1497.5	1514.9	1538.0
12.5°	1531.6	1548.3	1557.8	1573.7	1576.9	1572.1	1557.8	1551.5	1567.4	1593.6	1631.7
15°	1605.5	1616.6	1624.6	1637.3	1636.5	1632.5	1621.4	1626.2	1678.6	1729.4	1763.6
17.5°	1685.7	1673.0	1671.4	1679.4	1681.8	1677.0	1670.6	1692.1	1778.7	1826.4	1843.8
20°	1743.7	1700.0	1690.5	1693.7	1700.0	1697.7	1697.7	1732.6	1822.4	1844.6	1822.4
22.5°	1761.2	1699.2	1684.9	1685.7	1694.5	1695.3	1699.2	1735.8	1788.2	1789.0	1754.9
25°	1733.4	1673.8	1663.5	1665.1	1675.4	1674.6	1676.2	1696.9	1719.9	1710.4	1684.9
27.5°	1681.0	1629.3	1626.2	1634.9	1648.4	1641.3	1636.5	1642.0	1653.2	1641.3	1619.0
30°	1621.4	1577.7	1579.3	1596.0	1610.3	1598.4	1586.4	1589.6	1590.4	1577.7	1552.3
32.5°	1558.6	1526.1	1531.6	1549.1	1565.8	1553.1	1540.4	1538.8	1523.7	1508.6	1484.0
35°	1495.9	1483.2	1490.3	1504.6	1518.9	1508.6	1500.6	1495.9	1463.3	1441.1	1420.4
37.5°	1438.7	1448.2	1460.9	1469.7	1474.4	1473.6	1468.9	1457.7	1414.8	1388.6	1361.6
40°	1387.8	1417.2	1430.7	1434.7	1441.9	1440.3	1439.5	1423.6	1367.2	1339.4	1308.4
42.5°	1341.8	1383.1	1406.1	1410.1	1414.1	1414.8	1412.5	1389.4	1325.1	1292.5	1263.1
45°	1297.3	1351.3	1380.7	1376.7	1382.3	1382.3	1384.7	1354.5	1283.8	1250.4	1219.4
47.5°	1258.3	1321.9	1348.9	1344.1	1347.3	1349.7	1352.1	1317.1	1238.5	1206.7	1174.9
50°	1222.6	1290.1	1313.2	1314.8	1314.8	1320.3	1319.5	1285.4	1200.4	1166.2	1134.4
52.5°	1184.5	1257.6	1282.2	1292.5	1295.7	1298.1	1286.9	1247.2	1161.4	1120.1	1090.7
55°	1140.0	1224.2	1246.4	1259.9	1266.3	1264.7	1249.6	1209.1	1121.7	1080.4	1047.0
57.5°	1072.5	1152.7	1184.5	1190.8	1201.2	1194.8	1177.3	1143.2	1058.2	1016.8	982.7
60°	998.6	1056.6	1082.0	1087.6	1079.6	1082.0	1079.6	1047.0	973.2	940.6	905.6
62.5°	901.7	953.3	980.3	987.5	973.9	982.7	979.5	939.0	865.1	831.0	800.0
65°	828.6	885.0	916.8	920.7	916.8	920.7	909.6	860.3	790.4	755.5	723.7
67.5°	771.4	829.4	862.7	873.9	869.9	869.1	851.6	794.4	722.1	684.0	643.5
70°	672.9	723.7	766.6	793.6	793.6	778.5	745.2	691.9	633.9	601.4	569.6
72.5°	595.8	660.2	702.3	730.1	735.6	726.9	680.0	623.6	556.9	524.3	490.9
75°	490.9	553.7	599.0	635.5	642.7	633.1	579.1	523.5	461.6	429.8	396.4
77.5°	328.1	365.4	402.0	435.3	428.2	434.5	398.0	355.9	317.8	293.9	278.8
80°	185.1	209.7	220.8	239.1	239.1	239.1	215.3	195.4	174.0	160.5	145.4
82.5°	104.9	120.8	125.5	140.6	144.6	145.4	129.5	116.8	103.3	96.1	85.8
85°	48.5	57.2	58.0	66.7	69.9	76.3	69.1	60.4	52.4	49.3	42.9
87.5°	1.6	4.8	6.4	11.9	15.9	18.3	19.9	19.9	16.7	15.1	12.7
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: P635019

CATALOG NUMBER: GWS-SA3C-830-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1
2.5°	1686.5	1705.6	1727.8	1743.7	1772.3	1796.2	1820.8	1847.8	1867.7	1862.9
5°	1601.5	1633.3	1673.8	1711.2	1764.4	1818.4	1878.0	1939.2	1974.9	1973.3
7.5°	1553.9	1599.2	1648.4	1698.5	1761.2	1839.1	1930.4	2025.8	2074.2	2076.6
10°	1579.3	1627.8	1661.1	1703.2	1769.2	1866.9	1976.5	2090.9	2146.5	2157.6
12.5°	1659.5	1655.6	1653.2	1683.4	1762.8	1886.7	2021.0	2157.6	2220.4	2233.9
15°	1735.8	1654.0	1604.7	1625.4	1734.2	1899.4	2064.7	2230.7	2301.4	2315.7
17.5°	1750.1	1626.2	1534.8	1549.1	1688.9	1903.4	2106.8	2302.2	2378.5	2392.0
20°	1710.4	1590.4	1484.0	1464.1	1631.7	1893.1	2133.0	2361.8	2445.2	2459.5
22.5°	1660.3	1558.6	1445.8	1394.2	1561.8	1882.8	2162.4	2424.5	2520.7	2533.4
25°	1607.9	1518.1	1410.1	1331.4	1482.4	1876.4	2211.6	2507.2	2623.1	2638.2
27.5°	1552.3	1468.9	1379.1	1301.2	1409.3	1884.3	2281.6	2640.6	2772.5	2793.9
30°	1492.7	1419.6	1359.2	1290.9	1359.2	1891.5	2358.6	2777.3	2932.2	2962.4
32.5°	1430.7	1374.3	1338.6	1295.7	1328.3	1874.8	2426.1	2930.6	3122.8	3149.0
35°	1368.8	1328.3	1312.4	1304.4	1286.9	1813.6	2480.9	3085.5	3340.5	3363.5
37.5°	1310.8	1280.6	1275.8	1284.6	1223.4	1713.5	2544.5	3282.5	3554.2	3589.2
40°	1256.8	1229.0	1228.2	1226.6	1153.5	1576.9	2630.3	3482.7	3764.7	3780.6
42.5°	1206.7	1171.8	1178.1	1159.0	1096.3	1429.1	2711.3	3653.5	3960.9	3972.1
45°	1162.2	1116.1	1123.3	1099.5	1069.3	1274.2	2782.8	3855.3	4209.6	4216.7
47.5°	1119.3	1070.1	1050.2	1048.6	1064.5	1131.2	2852.7	4243.7	4598.9	4611.6
50°	1079.6	1026.4	970.0	1004.9	1035.1	1024.0	2940.1	4660.0	5000.8	4997.6
52.5°	1041.5	971.6	891.3	958.9	958.9	944.6	2915.5	4912.6	5332.9	5387.7
55°	997.8	883.4	809.5	881.8	846.8	873.1	2479.4	4995.3	5541.8	5619.7
57.5°	911.2	774.6	710.2	749.1	696.7	809.5	1781.1	4585.3	5186.7	5324.9
60°	827.8	694.3	652.2	645.1	576.7	660.2	1154.3	3589.9	4269.2	4339.1
62.5°	730.1	625.2	589.5	534.6	463.9	480.6	699.1	2362.6	2868.6	2884.5
65°	656.2	566.4	498.1	433.0	379.7	348.7	413.1	1139.2	1433.9	1414.8
67.5°	563.2	485.4	420.2	373.4	329.7	290.8	274.9	338.4	382.9	370.2
70°	501.3	426.6	363.8	319.4	278.8	239.9	212.1	199.4	195.4	192.2
72.5°	432.2	367.0	301.9	259.0	220.8	185.1	159.7	144.6	140.6	137.4
75°	344.8	283.6	224.0	183.5	150.1	124.7	108.0	95.3	92.9	89.8
77.5°	228.0	181.9	133.5	108.8	89.0	75.5	64.3	56.4	54.8	53.2
80°	125.5	104.9	81.8	65.9	53.2	46.1	42.1	37.3	36.5	35.7
82.5°	74.7	62.8	46.9	37.3	31.0	27.8	25.4	23.0	22.2	21.4
85°	37.3	29.4	20.7	17.5	15.9	14.3	14.3	11.9	11.1	11.1
87.5°	9.5	7.9	4.8	4.0	4.0	4.0	3.2	2.4	2.4	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

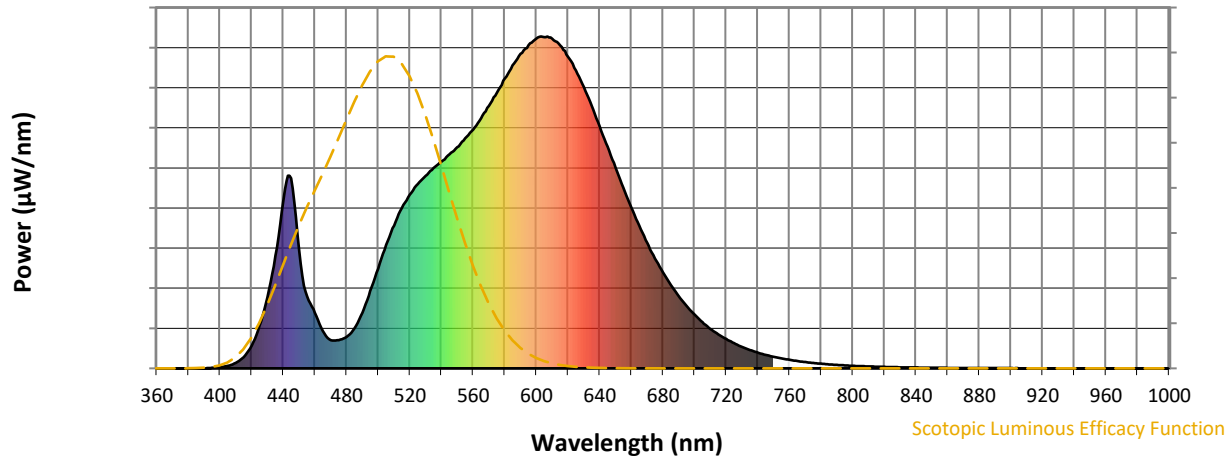


Photopic Lumens: NR

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

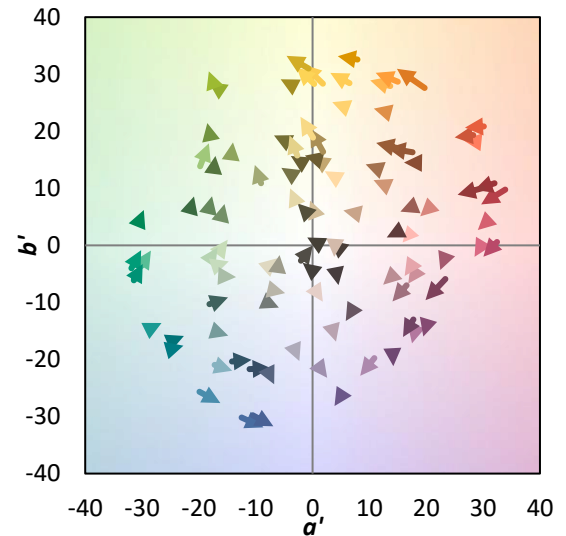
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

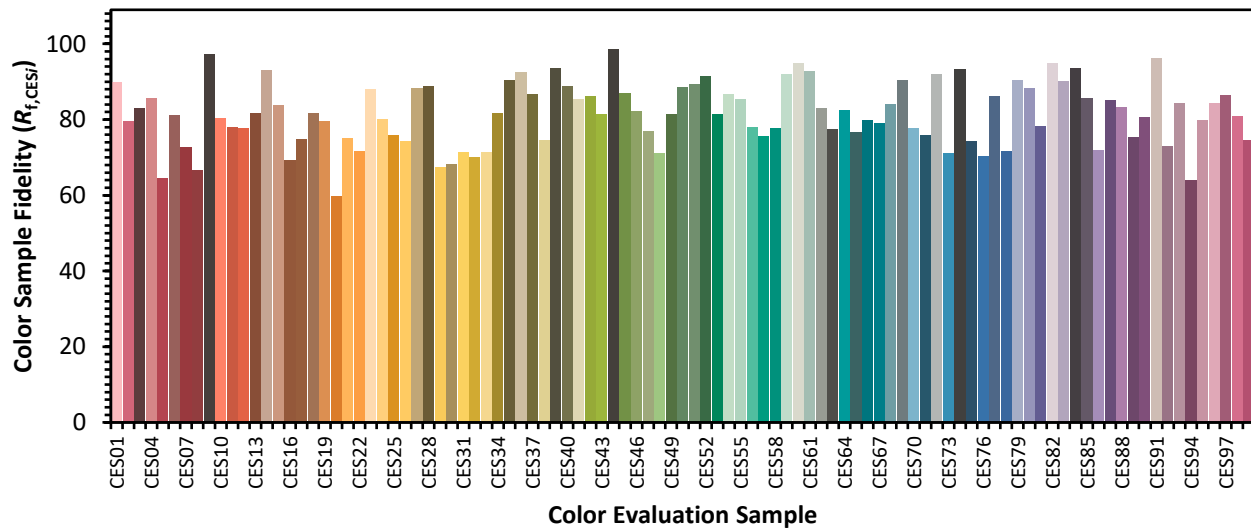


Color Vector Graphics



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

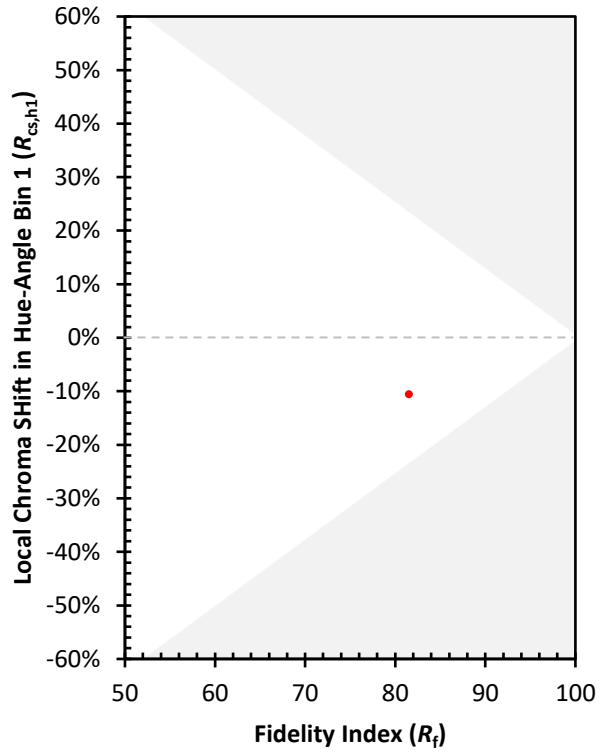
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)