

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P387187

Luminaire Tested: **GWC-SA2D-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-830-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12945 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

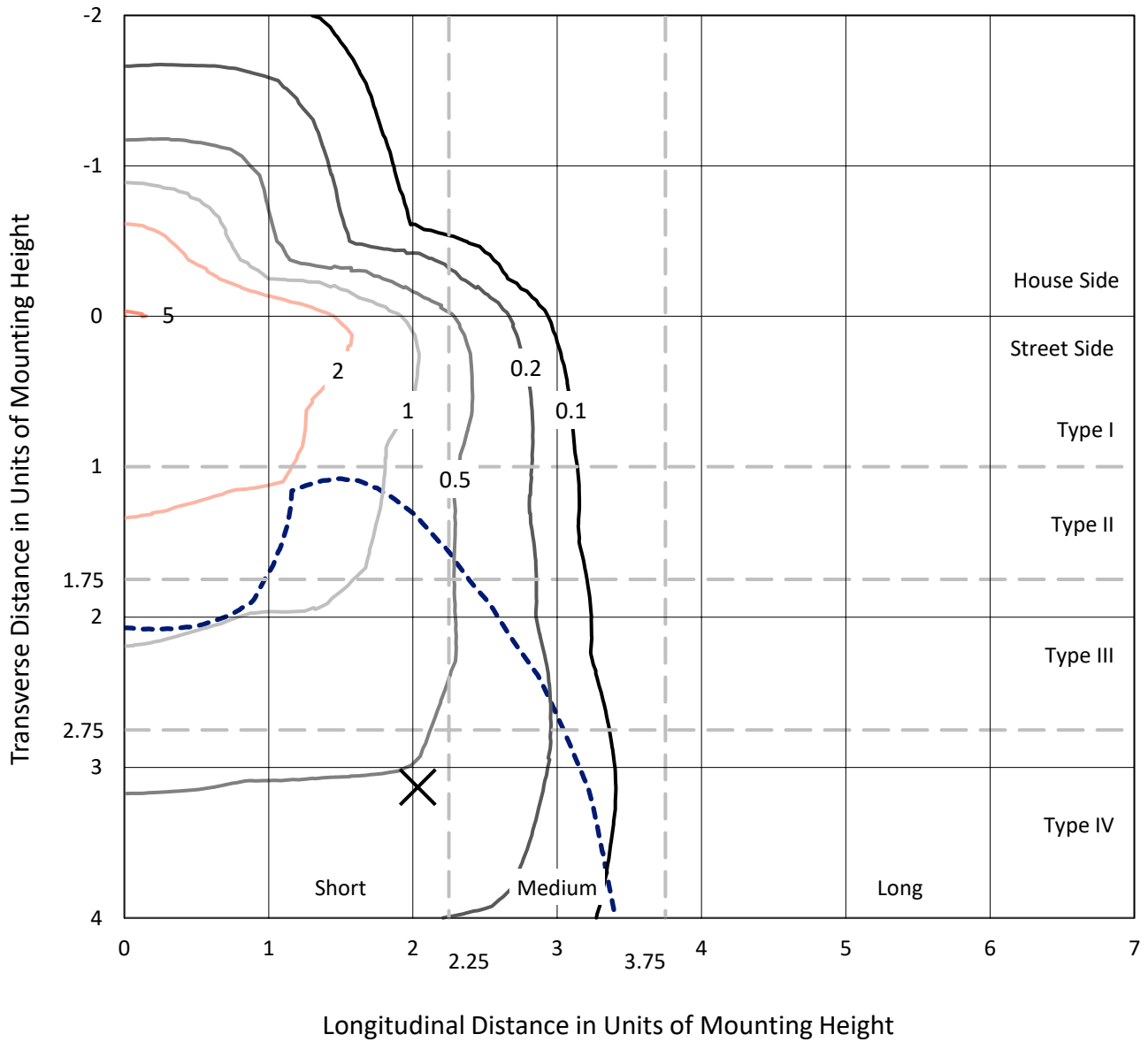
Input Watts (W): 128
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

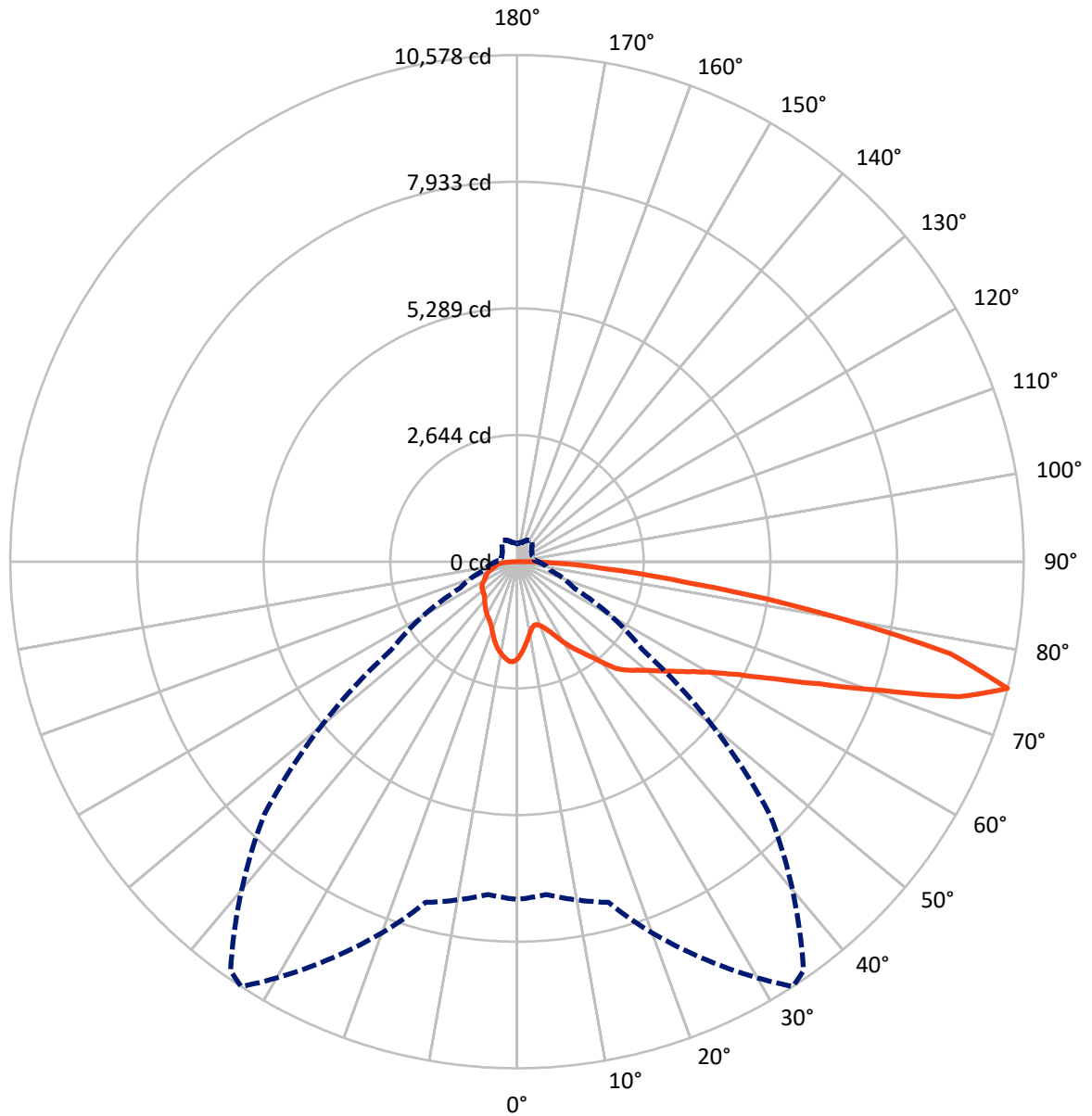
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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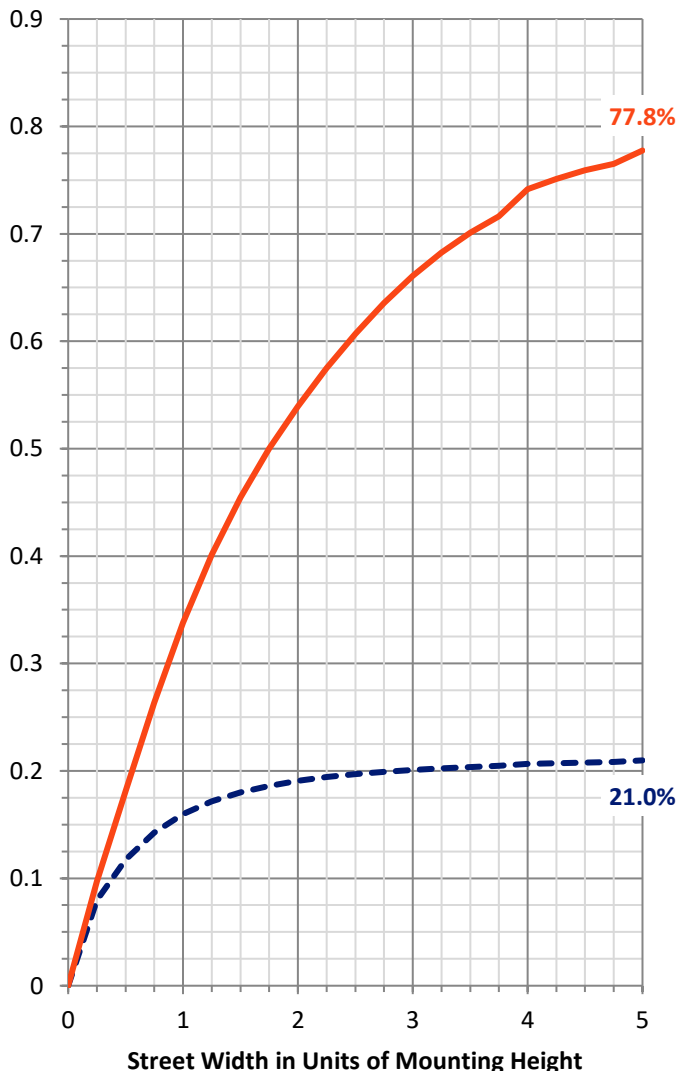
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2779.6 | 0.0 | 2779.6 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 10165.4 | 0.0 | 10165.4 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 12945.0 | 0.0 | 12945.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 183.0 | 1.4 |
| 10°-20° | 495.6 | 3.8 |
| 20°-30° | 809.4 | 6.3 |
| 30°-40° | 1205.4 | 9.3 |
| 40°-50° | 1728.9 | 13.4 |
| 50°-60° | 2373.5 | 18.3 |
| 60°-70° | 2971.5 | 23.0 |
| 70°-80° | 2688.2 | 20.8 |
| 80°-90° | 489.7 | 3.8 |
| 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° | 12945.0 | 100.0 |
| 0°-180° | 12945.0 | 100.0 |

Coefficient of Utilization



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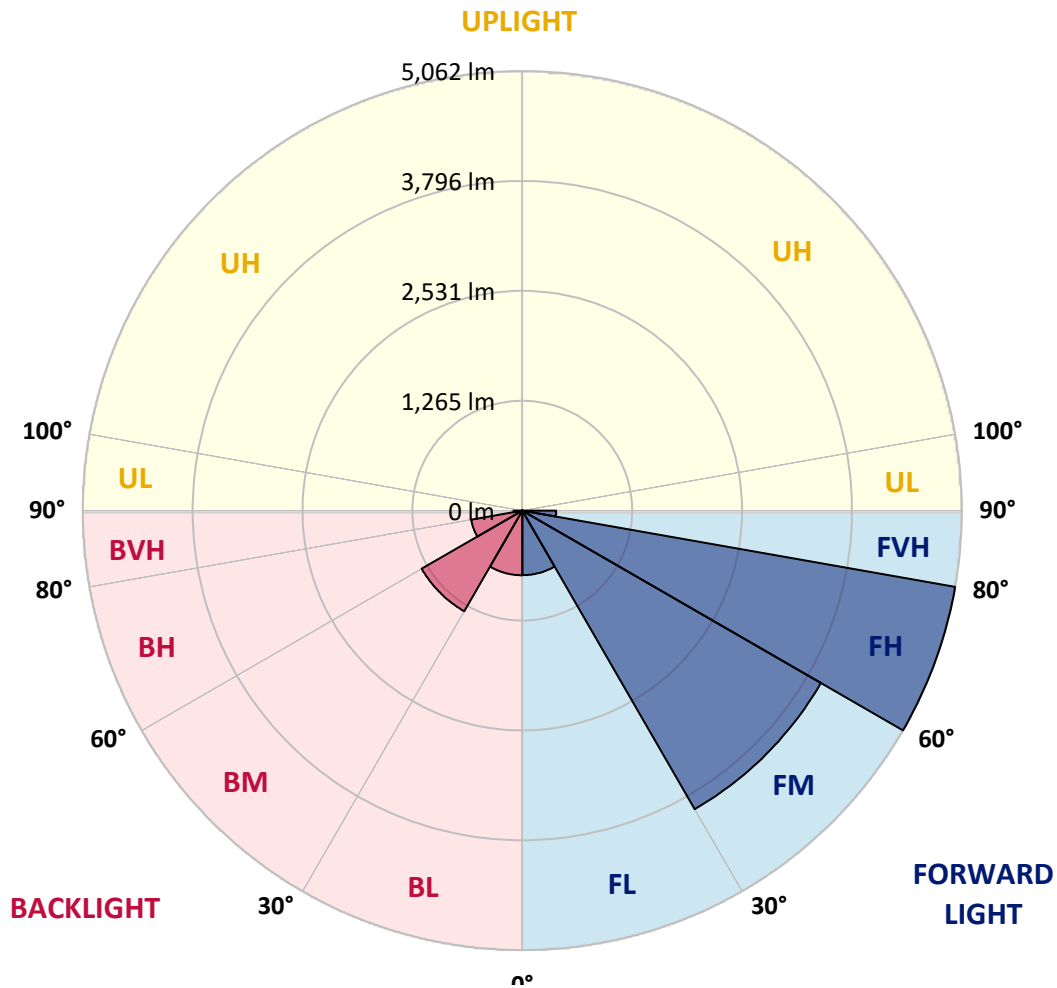
CATALOG NUMBER: GWC-SA2D-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 743.5 | 5.7 | | | |
| FM (30°-60°) | 3970.0 | 30.7 | | | |
| FH (60°-80°) | 5061.9 | 39.1 | | | G3/7500 |
| FVH (80°-90°) | 390.0 | 3.0 | | | G3/500 |
| BL (0°-30°) | 744.5 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1337.8 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 597.7 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 99.7 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 |
| 2.5° | 1878.9 | 1871.8 | 1885.2 | 1887.0 | 1898.6 | 1903.1 | 1919.2 | 1944.2 | 1964.8 | 1988.5 | 2010.0 |
| 5° | 1708.6 | 1703.7 | 1722.4 | 1735.9 | 1761.3 | 1772.1 | 1810.1 | 1863.3 | 1910.7 | 1964.4 | 2013.1 |
| 7.5° | 1546.7 | 1544.0 | 1565.0 | 1595.4 | 1625.0 | 1639.7 | 1705.4 | 1782.8 | 1862.0 | 1948.7 | 2023.4 |
| 10° | 1410.3 | 1409.4 | 1429.6 | 1459.5 | 1502.9 | 1519.4 | 1604.4 | 1706.3 | 1817.2 | 1936.6 | 2040.8 |
| 12.5° | 1333.9 | 1337.0 | 1346.4 | 1371.4 | 1411.7 | 1428.2 | 1522.6 | 1642.4 | 1779.7 | 1932.6 | 2066.3 |
| 15° | 1352.6 | 1357.6 | 1341.5 | 1340.6 | 1369.2 | 1382.2 | 1470.7 | 1596.8 | 1752.8 | 1939.3 | 2103.4 |
| 17.5° | 1432.7 | 1433.6 | 1391.1 | 1364.3 | 1381.7 | 1388.4 | 1454.6 | 1570.9 | 1737.2 | 1954.5 | 2149.9 |
| 20° | 1545.4 | 1543.1 | 1468.0 | 1423.3 | 1432.7 | 1434.5 | 1477.4 | 1571.3 | 1735.9 | 1980.9 | 2210.3 |
| 22.5° | 1694.7 | 1678.2 | 1577.1 | 1516.3 | 1514.1 | 1511.4 | 1536.0 | 1604.4 | 1755.5 | 2023.8 | 2282.3 |
| 25° | 1889.7 | 1874.0 | 1735.0 | 1651.8 | 1633.9 | 1627.2 | 1630.8 | 1675.0 | 1794.4 | 2069.9 | 2362.8 |
| 27.5° | 2106.5 | 2079.3 | 1945.1 | 1827.5 | 1790.4 | 1781.0 | 1759.6 | 1774.8 | 1836.9 | 2114.1 | 2458.5 |
| 30° | 2288.1 | 2273.3 | 2156.2 | 2016.7 | 1972.8 | 1959.4 | 1903.1 | 1886.5 | 1898.2 | 2174.5 | 2579.2 |
| 32.5° | 2389.6 | 2379.8 | 2308.7 | 2196.0 | 2155.3 | 2136.5 | 2056.9 | 2023.8 | 1996.5 | 2269.8 | 2742.8 |
| 35° | 2512.6 | 2506.3 | 2463.4 | 2381.5 | 2321.2 | 2301.5 | 2239.8 | 2205.4 | 2135.2 | 2400.8 | 2954.4 |
| 37.5° | 2669.1 | 2662.4 | 2663.3 | 2597.1 | 2525.1 | 2506.8 | 2466.1 | 2429.8 | 2314.9 | 2572.9 | 3184.2 |
| 40° | 2846.1 | 2833.2 | 2828.3 | 2825.1 | 2779.5 | 2769.2 | 2747.8 | 2698.6 | 2540.3 | 2778.6 | 3410.9 |
| 42.5° | 3112.6 | 3066.6 | 2968.2 | 3005.3 | 3050.5 | 3045.1 | 3062.6 | 2991.9 | 2790.7 | 3021.9 | 3632.2 |
| 45° | 3369.8 | 3294.2 | 3124.3 | 3132.3 | 3231.1 | 3261.1 | 3391.7 | 3341.6 | 3062.1 | 3288.4 | 3861.2 |
| 47.5° | 3486.9 | 3429.7 | 3285.2 | 3285.7 | 3383.6 | 3445.8 | 3732.0 | 3696.2 | 3347.4 | 3591.1 | 4140.7 |
| 50° | 3617.9 | 3560.7 | 3431.0 | 3479.8 | 3565.2 | 3631.3 | 4060.6 | 4042.3 | 3618.8 | 3922.4 | 4475.6 |
| 52.5° | 3761.0 | 3664.0 | 3581.7 | 3668.9 | 3788.7 | 3865.7 | 4389.7 | 4339.6 | 3867.9 | 4256.0 | 4860.6 |
| 55° | 3762.8 | 3736.4 | 3799.0 | 3863.0 | 4042.3 | 4136.6 | 4734.5 | 4602.1 | 4070.9 | 4583.8 | 5174.0 |
| 57.5° | 3977.0 | 3934.1 | 4066.9 | 4096.4 | 4330.7 | 4437.1 | 5077.4 | 4830.6 | 4277.5 | 4835.1 | 5343.1 |
| 60° | 4260.5 | 4223.8 | 4332.5 | 4410.3 | 4687.5 | 4829.7 | 5443.7 | 5065.4 | 4439.8 | 5024.7 | 5335.0 |
| 62.5° | 4750.1 | 4708.5 | 4707.2 | 4816.3 | 5189.7 | 5355.1 | 5854.6 | 5295.7 | 4504.2 | 5062.2 | 5107.4 |
| 65° | 5466.9 | 5400.7 | 5276.0 | 5327.9 | 5883.2 | 6048.2 | 6313.8 | 5462.4 | 4419.2 | 4861.0 | 4521.2 |
| 67.5° | 6164.5 | 6162.2 | 6008.9 | 6115.3 | 6799.0 | 6931.3 | 6837.0 | 5479.0 | 4154.1 | 4160.3 | 3481.1 |
| 70° | 6859.8 | 6868.7 | 6842.8 | 7213.1 | 8036.3 | 8174.0 | 7394.2 | 5256.8 | 3558.0 | 3004.4 | 2085.5 |
| 72.5° | 7410.7 | 7408.5 | 7539.0 | 8493.7 | 9642.0 | 9611.1 | 7863.7 | 4583.3 | 2554.6 | 1621.8 | 996.7 |
| 75° | 7053.9 | 6976.1 | 7365.1 | 9127.8 | 10577.9 | 10427.2 | 7464.4 | 3197.2 | 1325.8 | 738.3 | 536.6 |
| 77.5° | 4600.8 | 4674.6 | 5245.6 | 7540.4 | 9252.5 | 9069.2 | 5476.3 | 1491.7 | 624.7 | 484.3 | 389.0 |
| 80° | 1666.1 | 1743.9 | 2456.2 | 4271.2 | 6374.6 | 6344.7 | 2696.8 | 613.0 | 422.6 | 365.8 | 283.5 |
| 82.5° | 573.3 | 601.9 | 969.0 | 1896.8 | 3599.2 | 3733.3 | 1014.6 | 348.3 | 307.2 | 259.3 | 194.1 |
| 85° | 224.9 | 257.6 | 443.1 | 912.6 | 1815.4 | 1828.9 | 410.9 | 208.4 | 213.7 | 169.9 | 106.4 |
| 87.5° | 85.4 | 103.7 | 212.0 | 423.9 | 829.0 | 761.5 | 147.1 | 99.3 | 121.6 | 101.1 | 50.5 |
| 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: GWC-SA2D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 | 2023.4 |
| 2.5° | 2026.5 | 2035.9 | 2055.6 | 2069.0 | 2083.3 | 2087.3 | 2089.1 | 2092.7 | 2096.3 | 2094.9 | 2095.4 |
| 5° | 2039.0 | 2057.4 | 2089.1 | 2102.5 | 2108.8 | 2101.6 | 2087.8 | 2076.6 | 2068.5 | 2064.1 | 2062.7 |
| 7.5° | 2059.6 | 2085.5 | 2119.5 | 2117.3 | 2103.0 | 2071.2 | 2035.4 | 2008.6 | 1986.3 | 1978.2 | 1973.7 |
| 10° | 2086.9 | 2117.3 | 2141.0 | 2115.5 | 2073.9 | 2018.9 | 1965.2 | 1923.7 | 1890.1 | 1877.2 | 1874.9 |
| 12.5° | 2121.8 | 2152.6 | 2157.1 | 2103.0 | 2034.1 | 1959.0 | 1886.1 | 1831.1 | 1781.0 | 1764.9 | 1761.3 |
| 15° | 2166.9 | 2196.0 | 2168.3 | 2081.1 | 1984.9 | 1883.9 | 1789.5 | 1714.8 | 1662.1 | 1642.4 | 1635.2 |
| 17.5° | 2214.3 | 2242.0 | 2170.5 | 2044.8 | 1920.5 | 1794.9 | 1676.4 | 1599.9 | 1539.6 | 1516.7 | 1514.1 |
| 20° | 2271.1 | 2283.6 | 2161.1 | 1993.0 | 1832.0 | 1679.5 | 1554.8 | 1482.8 | 1450.6 | 1434.5 | 1432.7 |
| 22.5° | 2341.3 | 2327.9 | 2139.6 | 1922.8 | 1719.8 | 1546.3 | 1444.8 | 1411.2 | 1403.2 | 1399.6 | 1400.9 |
| 25° | 2415.5 | 2374.4 | 2107.9 | 1831.1 | 1578.0 | 1413.0 | 1364.3 | 1373.7 | 1384.4 | 1383.1 | 1383.1 |
| 27.5° | 2497.4 | 2421.8 | 2059.1 | 1709.5 | 1421.1 | 1303.9 | 1309.7 | 1344.1 | 1360.2 | 1359.8 | 1359.4 |
| 30° | 2602.4 | 2475.4 | 1997.0 | 1563.3 | 1274.4 | 1227.0 | 1262.3 | 1304.4 | 1326.3 | 1325.4 | 1325.8 |
| 32.5° | 2731.7 | 2534.5 | 1912.5 | 1400.0 | 1168.4 | 1170.2 | 1210.9 | 1252.5 | 1278.0 | 1275.7 | 1276.2 |
| 35° | 2882.8 | 2600.7 | 1798.0 | 1239.1 | 1098.2 | 1125.0 | 1157.2 | 1186.3 | 1210.4 | 1207.3 | 1204.2 |
| 37.5° | 3047.4 | 2665.5 | 1646.0 | 1095.1 | 1041.0 | 1083.0 | 1109.8 | 1114.8 | 1125.9 | 1117.9 | 1112.1 |
| 40° | 3203.9 | 2715.1 | 1450.1 | 977.0 | 983.3 | 1047.2 | 1064.7 | 1045.0 | 1024.9 | 1022.2 | 1014.1 |
| 42.5° | 3340.2 | 2731.7 | 1252.0 | 882.7 | 922.5 | 1009.7 | 1020.4 | 979.3 | 943.0 | 926.1 | 918.9 |
| 45° | 3484.2 | 2737.5 | 1067.4 | 803.5 | 863.9 | 976.1 | 987.8 | 932.8 | 881.8 | 845.1 | 833.0 |
| 47.5° | 3672.5 | 2779.5 | 923.8 | 745.0 | 819.2 | 953.8 | 970.3 | 895.7 | 829.5 | 777.2 | 766.0 |
| 50° | 3918.9 | 2862.7 | 807.1 | 700.2 | 790.1 | 939.0 | 957.8 | 859.4 | 786.5 | 723.5 | 712.3 |
| 52.5° | 4192.5 | 2939.1 | 712.8 | 664.0 | 762.0 | 913.1 | 941.7 | 833.5 | 746.3 | 673.9 | 661.8 |
| 55° | 4383.9 | 2880.6 | 636.7 | 626.5 | 725.3 | 876.0 | 919.4 | 811.6 | 688.6 | 625.6 | 614.8 |
| 57.5° | 4420.6 | 2680.2 | 579.1 | 587.6 | 681.0 | 829.5 | 884.9 | 762.8 | 657.3 | 604.6 | 593.4 |
| 60° | 4320.4 | 2401.2 | 536.1 | 551.8 | 633.6 | 770.9 | 820.5 | 728.4 | 627.4 | 582.2 | 572.8 |
| 62.5° | 4068.7 | 2115.5 | 504.4 | 519.6 | 589.4 | 711.4 | 780.3 | 692.2 | 597.0 | 556.7 | 547.3 |
| 65° | 3560.2 | 1776.1 | 474.0 | 491.0 | 548.2 | 660.0 | 744.1 | 658.7 | 567.0 | 536.1 | 527.2 |
| 67.5° | 2687.4 | 1330.3 | 445.4 | 460.6 | 511.5 | 615.3 | 704.7 | 625.6 | 537.9 | 518.3 | 507.5 |
| 70° | 1582.5 | 833.0 | 412.7 | 428.8 | 473.1 | 568.8 | 662.7 | 589.4 | 501.7 | 492.8 | 478.9 |
| 72.5° | 736.5 | 501.3 | 375.6 | 391.3 | 424.8 | 506.6 | 608.6 | 542.0 | 458.8 | 439.1 | 420.3 |
| 75° | 439.6 | 366.7 | 331.8 | 345.7 | 369.3 | 440.4 | 540.6 | 493.7 | 418.1 | 392.2 | 372.5 |
| 77.5° | 328.7 | 280.4 | 283.5 | 298.3 | 317.5 | 385.4 | 478.9 | 455.7 | 386.8 | 366.7 | 353.3 |
| 80° | 236.5 | 212.8 | 231.2 | 247.3 | 267.4 | 350.6 | 458.8 | 421.2 | 349.7 | 322.8 | 310.3 |
| 82.5° | 157.8 | 152.9 | 173.9 | 190.5 | 210.2 | 306.7 | 431.1 | 368.9 | 298.7 | 264.7 | 237.0 |
| 85° | 87.2 | 92.1 | 117.2 | 124.3 | 141.3 | 216.0 | 353.3 | 296.5 | 224.9 | 181.1 | 173.0 |
| 87.5° | 36.2 | 42.5 | 63.0 | 60.8 | 75.1 | 128.8 | 232.5 | 178.9 | 143.1 | 106.9 | 83.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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

Scaled Data Report



Report Generated By 670245982

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