

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: P386719

Luminaire Tested: **GWC-SA2B-830-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2B-830-U-RW
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9687 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

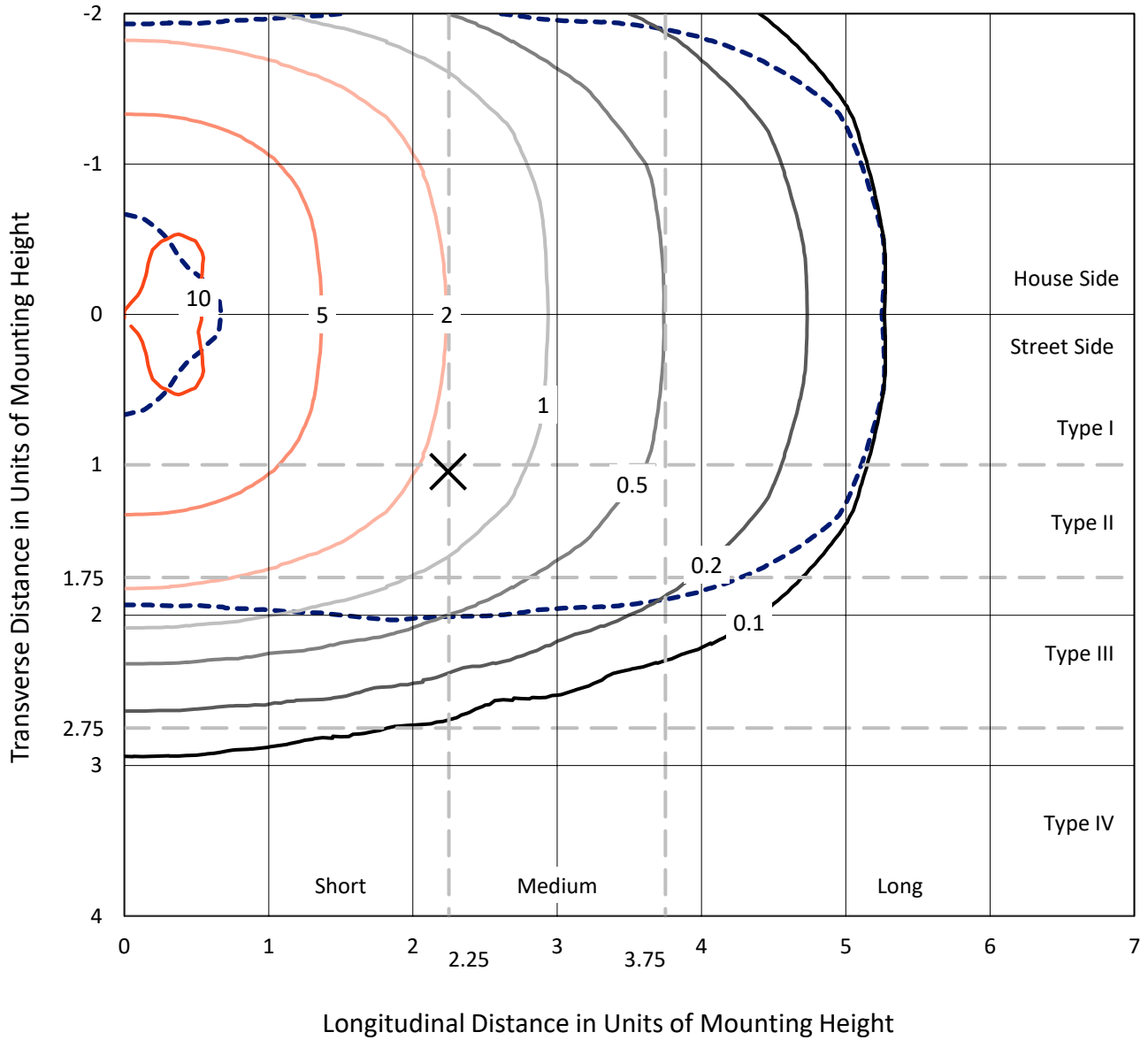
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

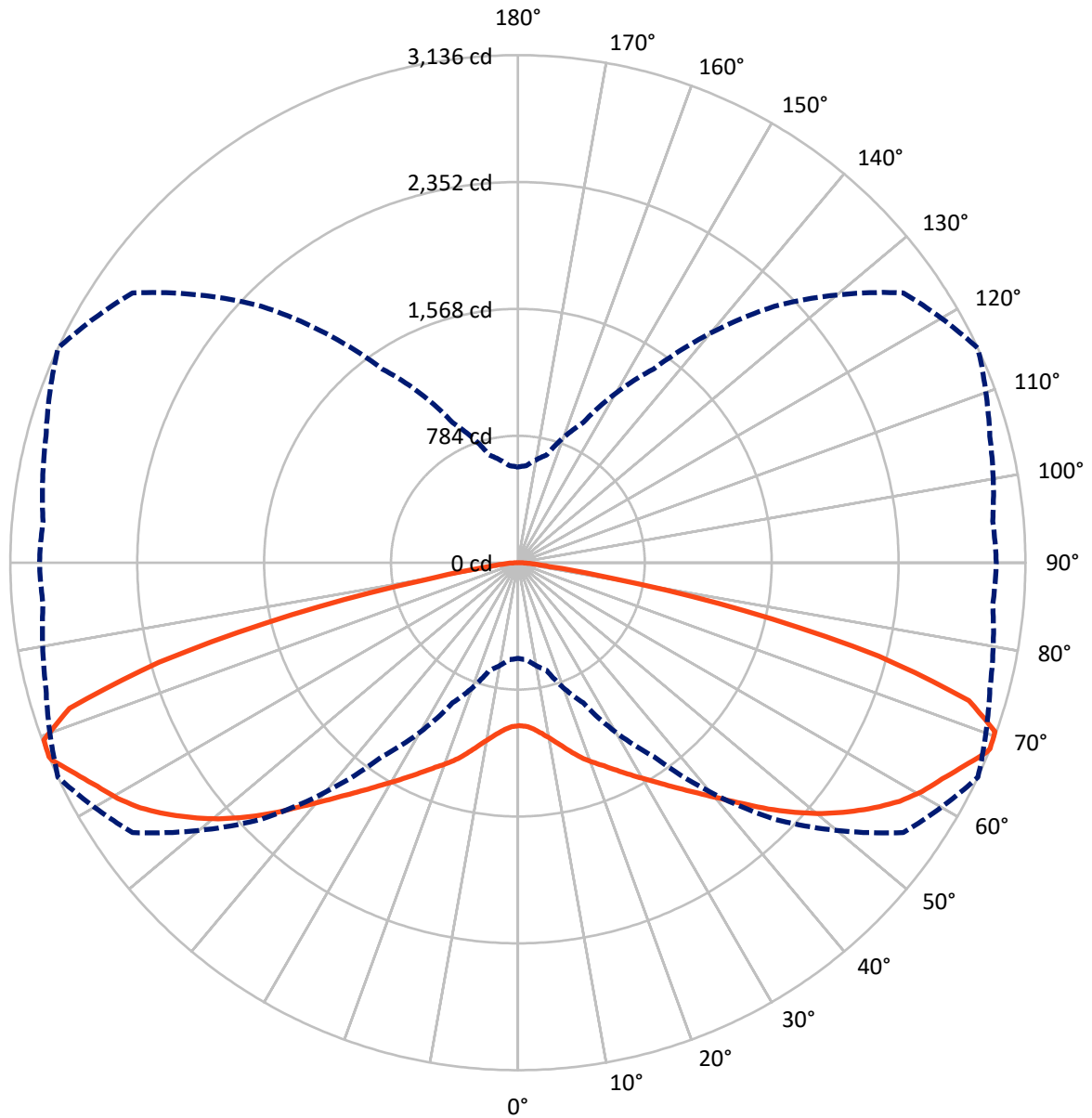
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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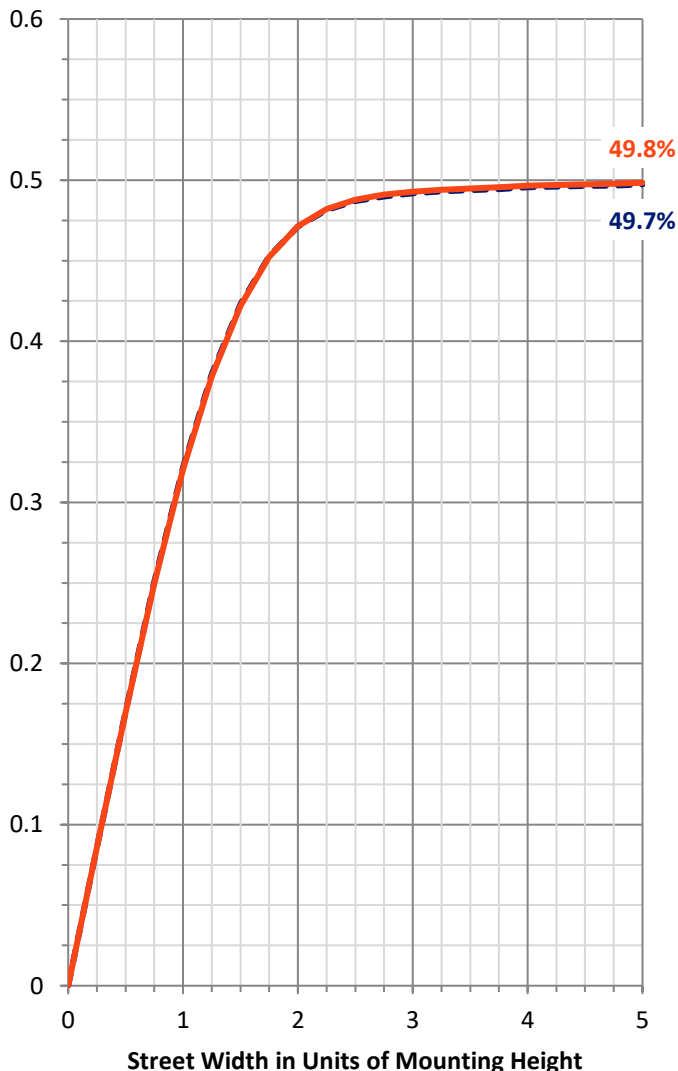
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4843.5 | 0.0 | 4843.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4843.5 | 0.0 | 4843.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9687.0 | 0.0 | 9687.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.6 | 1.0 |
| 10°-20° | 330.2 | 3.4 |
| 20°-30° | 643.8 | 6.6 |
| 30°-40° | 1081.5 | 11.2 |
| 40°-50° | 1704.1 | 17.6 |
| 50°-60° | 2279.0 | 23.5 |
| 60°-70° | 2215.5 | 22.9 |
| 70°-80° | 1211.1 | 12.5 |
| 80°-90° | 123.2 | 1.3 |
| 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° | 9687.0 | 100.0 |
| 0°-180° | 9687.0 | 100.0 |

Coefficient of Utilization



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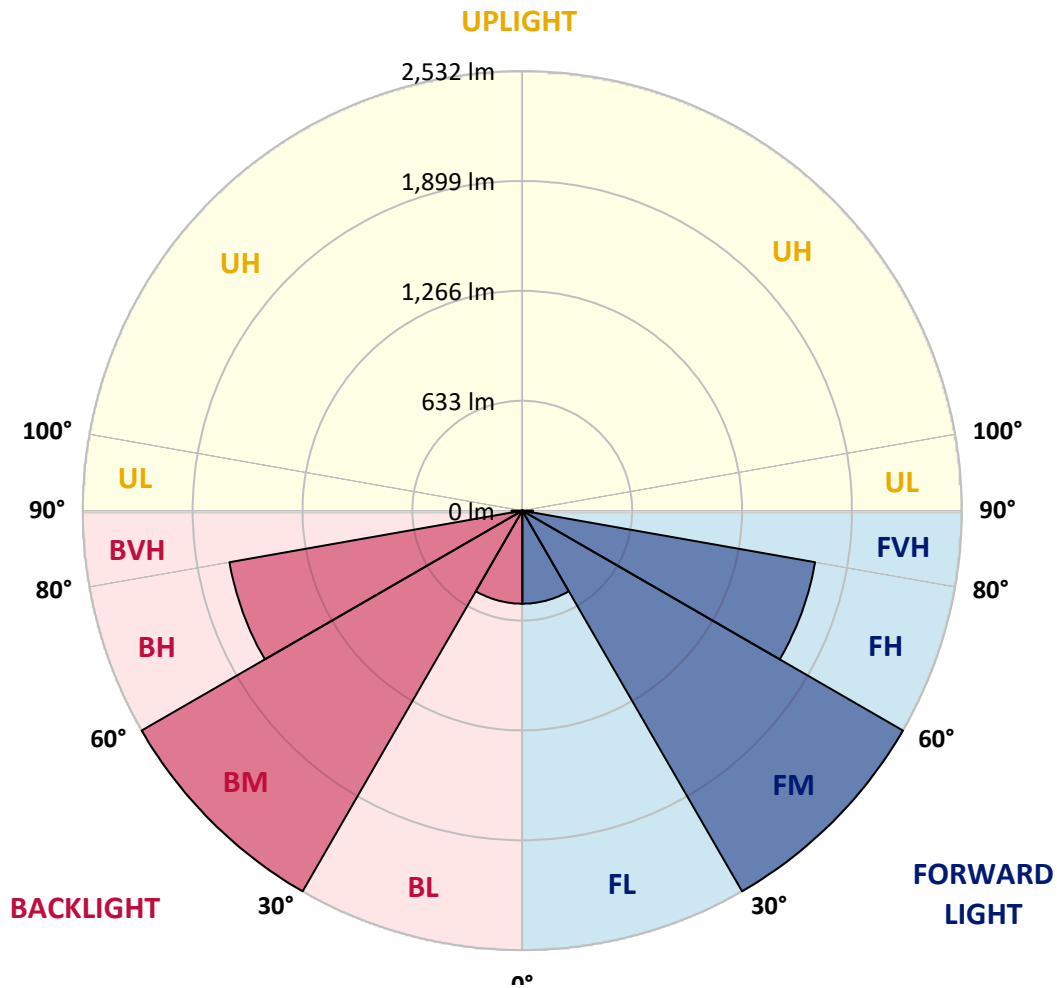
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 536.3 | 5.5 | | | |
| FM (30°-60°) | 2532.3 | 26.1 | | | |
| FH (60°-80°) | 1713.3 | 17.7 | | | G1/1800 |
| FVH (80°-90°) | 61.6 | 0.6 | | | G1/100 |
| BL (0°-30°) | 536.3 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 2532.3 | 26.1 | B3/5000 | | |
| BH (60°-80°) | 1713.3 | 17.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 61.6 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 | 1007.2 |
| 2.5° | 1000.1 | 1000.4 | 1002.0 | 1004.0 | 1005.6 | 1009.8 | 1010.8 | 1012.4 | 1013.1 | 1014.7 | 1014.7 |
| 5° | 991.3 | 992.0 | 995.9 | 1001.0 | 1006.9 | 1017.3 | 1024.8 | 1033.2 | 1037.4 | 1042.0 | 1041.6 |
| 7.5° | 990.3 | 992.0 | 997.5 | 1005.9 | 1015.7 | 1032.9 | 1048.5 | 1065.4 | 1076.7 | 1087.1 | 1086.5 |
| 10° | 1000.4 | 1003.0 | 1010.8 | 1023.5 | 1038.1 | 1059.5 | 1082.6 | 1105.3 | 1125.1 | 1141.0 | 1141.7 |
| 12.5° | 1015.7 | 1018.9 | 1031.3 | 1050.4 | 1072.5 | 1100.1 | 1127.4 | 1153.1 | 1180.3 | 1204.1 | 1206.0 |
| 15° | 1035.8 | 1040.0 | 1058.5 | 1087.1 | 1120.9 | 1153.7 | 1182.9 | 1209.2 | 1240.8 | 1273.6 | 1276.8 |
| 17.5° | 1065.7 | 1071.5 | 1095.9 | 1134.5 | 1179.0 | 1215.1 | 1245.6 | 1265.4 | 1291.7 | 1325.5 | 1331.7 |
| 20° | 1111.2 | 1118.6 | 1149.5 | 1195.6 | 1249.8 | 1287.5 | 1310.9 | 1315.1 | 1328.1 | 1358.3 | 1365.5 |
| 22.5° | 1170.3 | 1176.8 | 1211.2 | 1266.1 | 1326.8 | 1367.8 | 1380.1 | 1363.2 | 1361.9 | 1386.3 | 1393.1 |
| 25° | 1236.2 | 1242.1 | 1282.0 | 1343.7 | 1409.0 | 1454.2 | 1453.8 | 1421.0 | 1398.3 | 1417.1 | 1424.3 |
| 27.5° | 1310.3 | 1319.4 | 1357.7 | 1422.6 | 1492.5 | 1537.0 | 1534.4 | 1483.7 | 1440.5 | 1445.4 | 1451.6 |
| 30° | 1395.4 | 1405.4 | 1442.8 | 1508.7 | 1578.6 | 1622.1 | 1618.8 | 1551.9 | 1487.0 | 1474.0 | 1478.5 |
| 32.5° | 1500.9 | 1512.9 | 1548.3 | 1613.3 | 1675.0 | 1714.3 | 1704.9 | 1626.0 | 1542.8 | 1514.6 | 1518.8 |
| 35° | 1627.9 | 1635.1 | 1672.4 | 1736.4 | 1786.4 | 1813.4 | 1793.6 | 1711.7 | 1613.6 | 1579.5 | 1579.5 |
| 37.5° | 1756.5 | 1762.1 | 1804.0 | 1866.0 | 1914.4 | 1928.7 | 1890.0 | 1805.6 | 1706.2 | 1657.8 | 1658.8 |
| 40° | 1880.0 | 1894.9 | 1942.0 | 2005.7 | 2053.4 | 2057.3 | 2006.0 | 1912.8 | 1809.2 | 1759.1 | 1765.0 |
| 42.5° | 2008.9 | 2023.5 | 2079.7 | 2151.8 | 2194.1 | 2200.6 | 2140.5 | 2033.0 | 1925.4 | 1884.8 | 1891.3 |
| 45° | 2123.9 | 2135.6 | 2200.6 | 2284.4 | 2337.0 | 2353.9 | 2282.7 | 2170.7 | 2051.1 | 2011.5 | 2013.1 |
| 47.5° | 2204.1 | 2219.4 | 2290.8 | 2389.6 | 2466.2 | 2492.2 | 2422.4 | 2304.8 | 2174.9 | 2126.8 | 2131.0 |
| 50° | 2276.9 | 2285.0 | 2357.4 | 2465.3 | 2562.7 | 2616.3 | 2556.5 | 2437.3 | 2299.9 | 2248.9 | 2253.5 |
| 52.5° | 2317.5 | 2327.9 | 2398.0 | 2510.4 | 2625.7 | 2712.1 | 2675.7 | 2556.5 | 2420.8 | 2371.1 | 2376.6 |
| 55° | 2289.2 | 2297.0 | 2381.1 | 2520.5 | 2664.7 | 2771.2 | 2776.8 | 2673.1 | 2539.3 | 2495.8 | 2511.4 |
| 57.5° | 2160.6 | 2170.3 | 2273.0 | 2455.5 | 2669.6 | 2811.2 | 2852.8 | 2781.3 | 2650.1 | 2614.7 | 2623.8 |
| 60° | 1959.5 | 1965.7 | 2075.2 | 2280.5 | 2574.7 | 2827.8 | 2901.2 | 2869.7 | 2758.6 | 2723.2 | 2735.5 |
| 62.5° | 1601.3 | 1610.4 | 1741.3 | 2016.4 | 2374.3 | 2778.7 | 2947.9 | 2942.7 | 2859.6 | 2827.1 | 2838.1 |
| 65° | 1094.6 | 1110.5 | 1255.4 | 1603.2 | 2065.4 | 2628.6 | 2990.5 | 3027.8 | 2948.9 | 2908.0 | 2922.6 |
| 67.5° | 661.0 | 672.7 | 777.6 | 1058.5 | 1580.5 | 2325.9 | 2946.6 | 3124.6 | 3011.9 | 2946.0 | 2958.0 |
| 68° | 590.8 | 601.5 | 689.2 | 955.3 | 1461.9 | 2240.5 | 2906.7 | 3135.7 | 3018.7 | 2945.3 | 2956.0 |
| 70° | 357.0 | 364.1 | 422.9 | 590.5 | 974.7 | 1777.3 | 2634.2 | 3126.6 | 3062.3 | 2954.4 | 2960.6 |
| 72.5° | 232.6 | 234.8 | 244.6 | 303.0 | 497.9 | 993.9 | 1977.1 | 2913.5 | 3127.5 | 3007.4 | 3006.4 |
| 75° | 193.3 | 192.0 | 192.9 | 199.8 | 245.6 | 435.9 | 1155.3 | 2301.6 | 2981.4 | 2923.9 | 2903.4 |
| 77.5° | 163.4 | 162.4 | 162.1 | 162.4 | 164.4 | 210.5 | 501.5 | 1433.7 | 2281.4 | 2586.4 | 2604.6 |
| 80° | 132.2 | 130.9 | 135.1 | 133.2 | 127.3 | 130.9 | 210.1 | 596.3 | 1075.4 | 1157.0 | 1084.2 |
| 82.5° | 96.1 | 91.3 | 109.5 | 104.3 | 99.4 | 92.2 | 116.0 | 192.6 | 256.6 | 176.0 | 123.8 |
| 85° | 74.1 | 68.9 | 83.2 | 79.9 | 68.2 | 47.1 | 68.9 | 94.2 | 103.9 | 59.4 | 46.8 |
| 87.5° | 30.2 | 31.8 | 60.1 | 47.4 | 40.0 | 22.7 | 28.3 | 37.7 | 50.7 | 25.3 | 19.5 |
| 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



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