

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: P387139

Luminaire Tested: **GWC-SA2D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387139
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-SA2D-827-U-RW
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12168 lumens
Efficiency: N/A
Efficacy: 95.1 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): 128
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

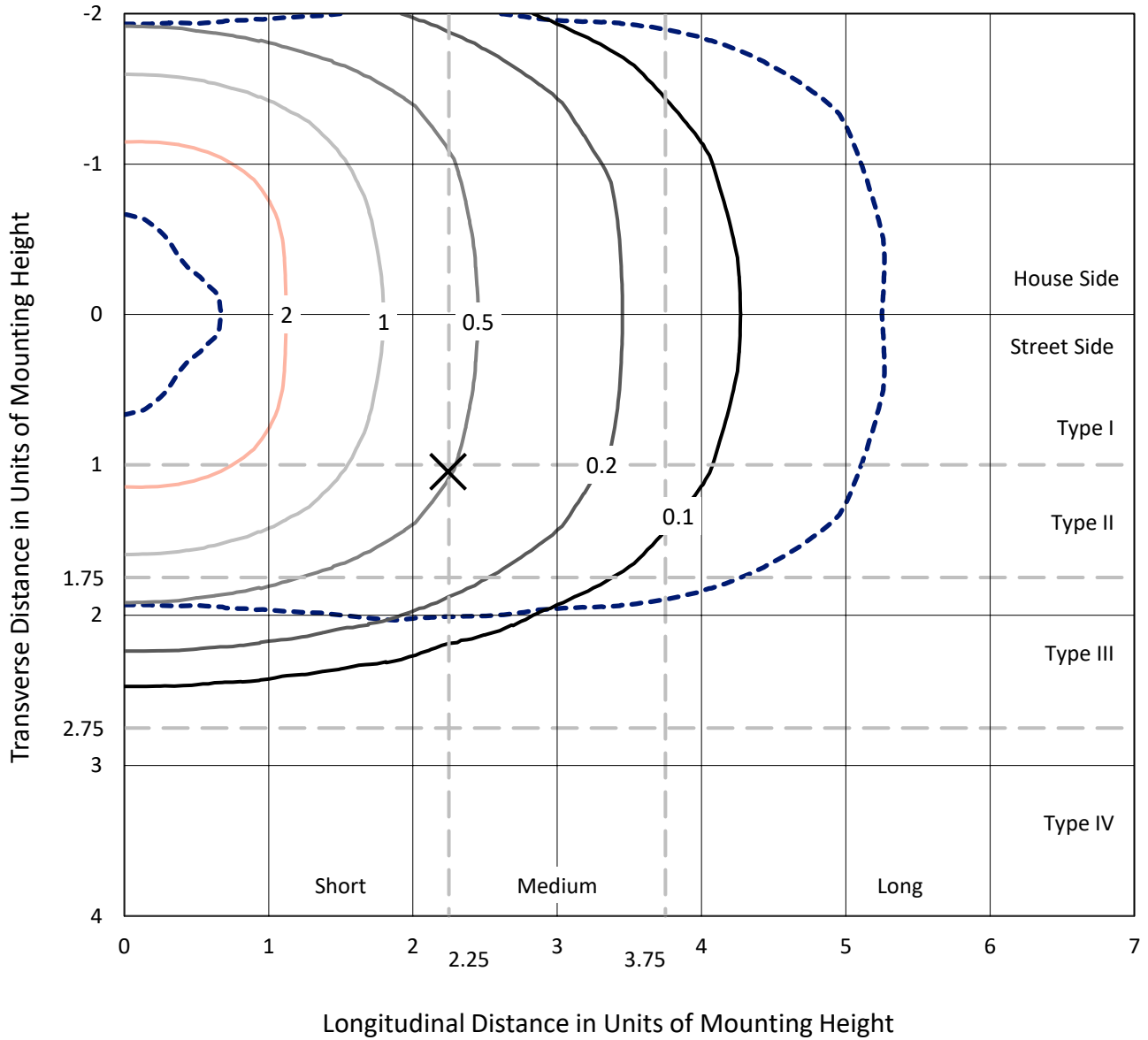


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Iso-Footcandle Lines of Horizontal Illumination

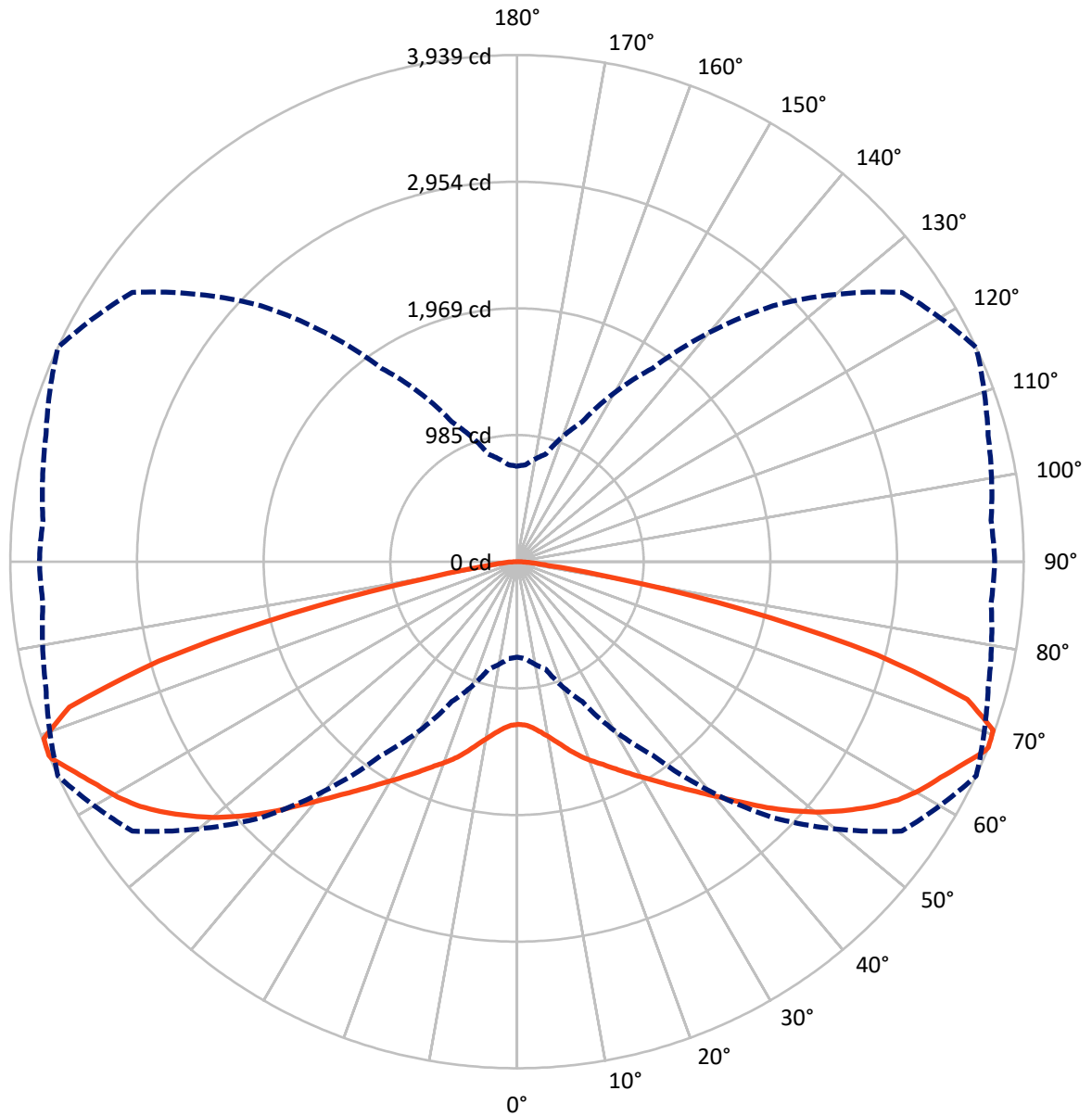
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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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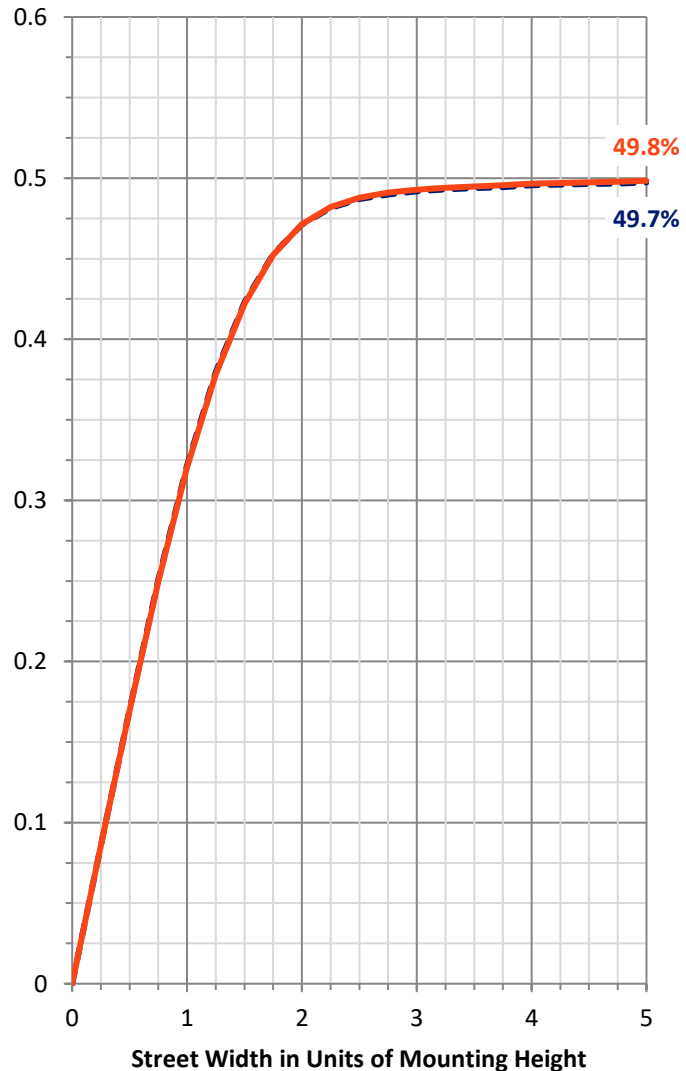
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6084.0 | 0.0 | 6084.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6084.0 | 0.0 | 6084.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12168.0 | 0.0 | 12168.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 123.9 | 1.0 |
| 10°-20° | 414.8 | 3.4 |
| 20°-30° | 808.7 | 6.6 |
| 30°-40° | 1358.5 | 11.2 |
| 40°-50° | 2140.6 | 17.6 |
| 50°-60° | 2862.7 | 23.5 |
| 60°-70° | 2782.9 | 22.9 |
| 70°-80° | 1521.3 | 12.5 |
| 80°-90° | 154.7 | 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° | 12168.0 | 100.0 |
| 0°-180° | 12168.0 | 100.0 |

Coefficient of Utilization



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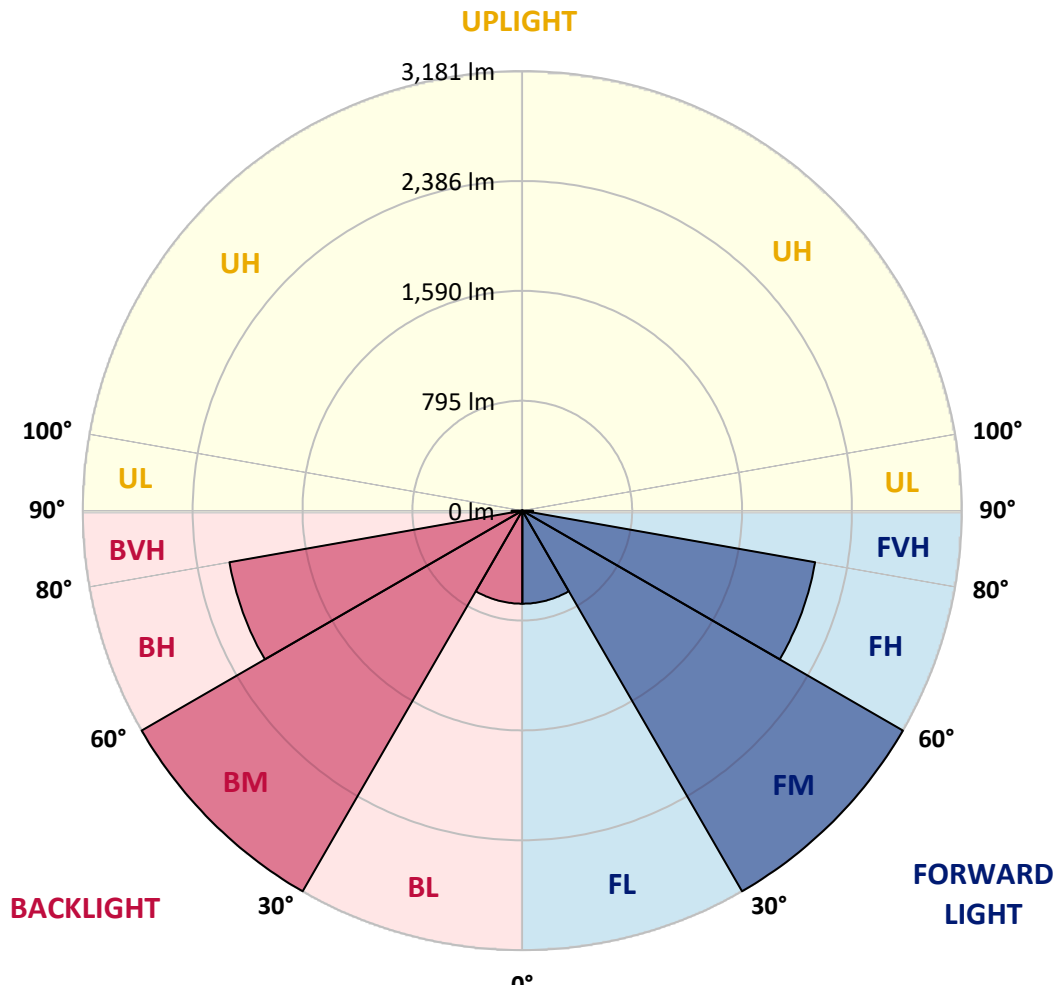
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 673.7 | 5.5 | | | |
| FM (30°-60°) | 3180.9 | 26.1 | | | |
| FH (60°-80°) | 2152.1 | 17.7 | | | G2/5000 |
| FVH (80°-90°) | 77.4 | 0.6 | | | G1/100 |
| BL (0°-30°) | 673.7 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 3180.9 | 26.1 | B3/5000 | | |
| BH (60°-80°) | 2152.1 | 17.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 77.4 | 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° | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 | 1265.2 |
| 2.5° | 1256.2 | 1256.6 | 1258.7 | 1261.1 | 1263.1 | 1268.4 | 1269.7 | 1271.7 | 1272.5 | 1274.6 | 1274.6 |
| 5° | 1245.2 | 1246.0 | 1250.9 | 1257.4 | 1264.8 | 1277.8 | 1287.2 | 1297.8 | 1303.1 | 1308.8 | 1308.4 |
| 7.5° | 1244.0 | 1246.0 | 1252.9 | 1263.6 | 1275.8 | 1297.4 | 1317.0 | 1338.2 | 1352.5 | 1365.6 | 1364.7 |
| 10° | 1256.6 | 1259.9 | 1269.7 | 1285.6 | 1303.9 | 1330.9 | 1359.8 | 1388.4 | 1413.3 | 1433.3 | 1434.1 |
| 12.5° | 1275.8 | 1279.9 | 1295.4 | 1319.4 | 1347.2 | 1381.9 | 1416.1 | 1448.4 | 1482.6 | 1512.4 | 1514.9 |
| 15° | 1301.1 | 1306.4 | 1329.6 | 1365.6 | 1408.0 | 1449.2 | 1485.9 | 1519.0 | 1558.5 | 1599.7 | 1603.8 |
| 17.5° | 1338.6 | 1346.0 | 1376.6 | 1425.1 | 1481.0 | 1526.3 | 1564.7 | 1589.5 | 1622.6 | 1665.0 | 1672.8 |
| 20° | 1395.7 | 1405.1 | 1443.9 | 1501.8 | 1570.0 | 1617.3 | 1646.7 | 1652.0 | 1668.3 | 1706.2 | 1715.2 |
| 22.5° | 1470.0 | 1478.2 | 1521.4 | 1590.4 | 1666.7 | 1718.1 | 1733.6 | 1712.3 | 1710.7 | 1741.3 | 1749.9 |
| 25° | 1552.8 | 1560.2 | 1610.3 | 1687.9 | 1769.9 | 1826.6 | 1826.2 | 1785.0 | 1756.4 | 1780.1 | 1789.0 |
| 27.5° | 1645.8 | 1657.3 | 1705.4 | 1787.0 | 1874.7 | 1930.6 | 1927.4 | 1863.7 | 1809.4 | 1815.6 | 1823.3 |
| 30° | 1752.7 | 1765.4 | 1812.3 | 1895.1 | 1982.8 | 2037.5 | 2033.4 | 1949.4 | 1867.8 | 1851.5 | 1857.2 |
| 32.5° | 1885.3 | 1900.4 | 1944.9 | 2026.5 | 2104.0 | 2153.4 | 2141.6 | 2042.4 | 1938.0 | 1902.5 | 1907.8 |
| 35° | 2044.9 | 2053.8 | 2100.8 | 2181.1 | 2244.0 | 2277.8 | 2252.9 | 2150.1 | 2026.9 | 1984.1 | 1984.1 |
| 37.5° | 2206.4 | 2213.4 | 2266.0 | 2343.9 | 2404.7 | 2422.7 | 2374.1 | 2268.0 | 2143.2 | 2082.4 | 2083.6 |
| 40° | 2361.5 | 2380.2 | 2439.4 | 2519.4 | 2579.3 | 2584.2 | 2519.8 | 2402.7 | 2272.5 | 2209.7 | 2217.0 |
| 42.5° | 2523.4 | 2541.8 | 2612.4 | 2703.0 | 2756.0 | 2764.2 | 2688.7 | 2553.6 | 2418.6 | 2367.6 | 2375.7 |
| 45° | 2667.9 | 2682.6 | 2764.2 | 2869.4 | 2935.5 | 2956.7 | 2867.4 | 2726.6 | 2576.5 | 2526.7 | 2528.7 |
| 47.5° | 2768.6 | 2787.8 | 2877.6 | 3001.6 | 3097.9 | 3130.5 | 3042.8 | 2895.1 | 2731.9 | 2671.5 | 2676.8 |
| 50° | 2860.0 | 2870.2 | 2961.2 | 3096.7 | 3219.1 | 3286.4 | 3211.3 | 3061.6 | 2889.0 | 2824.9 | 2830.7 |
| 52.5° | 2911.0 | 2924.1 | 3012.2 | 3153.4 | 3298.2 | 3406.7 | 3361.0 | 3211.3 | 3040.8 | 2978.3 | 2985.3 |
| 55° | 2875.5 | 2885.3 | 2991.0 | 3166.0 | 3347.2 | 3481.0 | 3487.9 | 3357.8 | 3189.7 | 3135.0 | 3154.6 |
| 57.5° | 2714.0 | 2726.2 | 2855.1 | 3084.4 | 3353.3 | 3531.2 | 3583.4 | 3493.6 | 3328.8 | 3284.3 | 3295.8 |
| 60° | 2461.4 | 2469.2 | 2606.7 | 2864.5 | 3234.2 | 3552.0 | 3644.2 | 3604.6 | 3465.1 | 3420.6 | 3436.1 |
| 62.5° | 2011.4 | 2022.8 | 2187.2 | 2532.8 | 2982.4 | 3490.4 | 3702.9 | 3696.4 | 3592.0 | 3551.2 | 3565.0 |
| 65° | 1374.9 | 1394.9 | 1576.9 | 2013.9 | 2594.4 | 3301.9 | 3756.4 | 3803.3 | 3704.2 | 3652.8 | 3671.1 |
| 67.5° | 830.3 | 845.0 | 976.7 | 1329.6 | 1985.3 | 2921.6 | 3701.3 | 3924.9 | 3783.3 | 3700.5 | 3715.6 |
| 68° | 742.1 | 755.6 | 865.8 | 1199.9 | 1836.4 | 2814.3 | 3651.1 | 3938.8 | 3791.9 | 3699.7 | 3713.1 |
| 70° | 448.4 | 457.4 | 531.2 | 741.7 | 1224.4 | 2232.5 | 3308.8 | 3927.3 | 3846.6 | 3711.1 | 3718.9 |
| 72.5° | 292.1 | 295.0 | 307.2 | 380.7 | 625.5 | 1248.5 | 2483.5 | 3659.7 | 3928.6 | 3777.6 | 3776.4 |
| 75° | 242.8 | 241.1 | 242.3 | 250.9 | 308.4 | 547.5 | 1451.2 | 2891.0 | 3745.0 | 3672.8 | 3647.0 |
| 77.5° | 205.2 | 204.0 | 203.6 | 204.0 | 206.4 | 264.4 | 629.9 | 1800.9 | 2865.7 | 3248.8 | 3271.7 |
| 80° | 166.1 | 164.4 | 169.7 | 167.3 | 159.9 | 164.4 | 264.0 | 749.1 | 1350.9 | 1453.3 | 1361.9 |
| 82.5° | 120.8 | 114.6 | 137.5 | 131.0 | 124.8 | 115.9 | 145.7 | 241.9 | 322.3 | 221.1 | 155.4 |
| 85° | 93.0 | 86.5 | 104.4 | 100.4 | 85.7 | 59.2 | 86.5 | 118.3 | 130.6 | 74.7 | 58.8 |
| 87.5° | 37.9 | 40.0 | 75.5 | 59.6 | 50.2 | 28.6 | 35.5 | 47.3 | 63.6 | 31.8 | 24.5 |
| 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



Report Generated By 670245982

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