

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: P386463

Luminaire Tested: **GWC-SA2A-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2A-827-U-5NQ
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7375 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

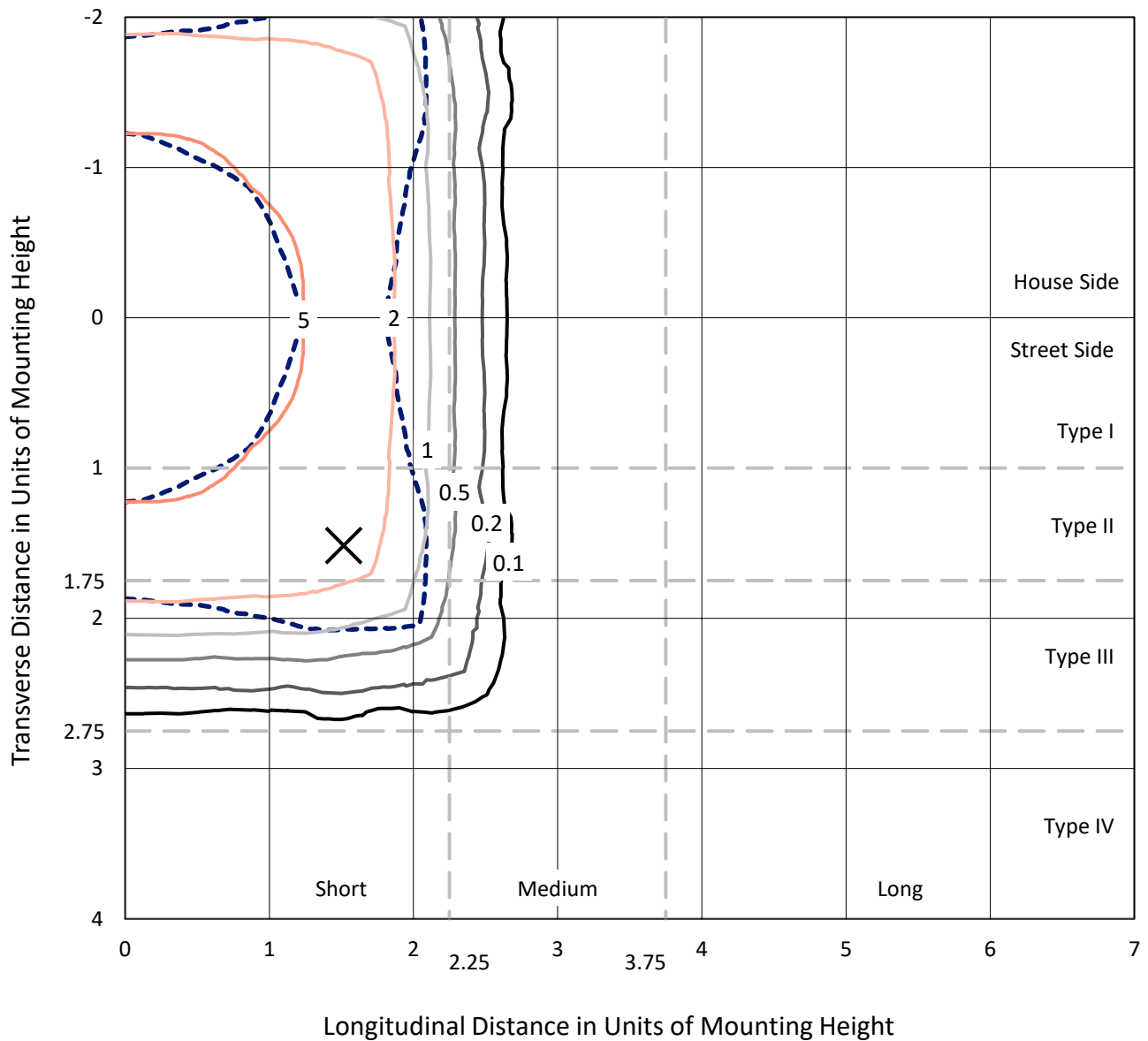
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

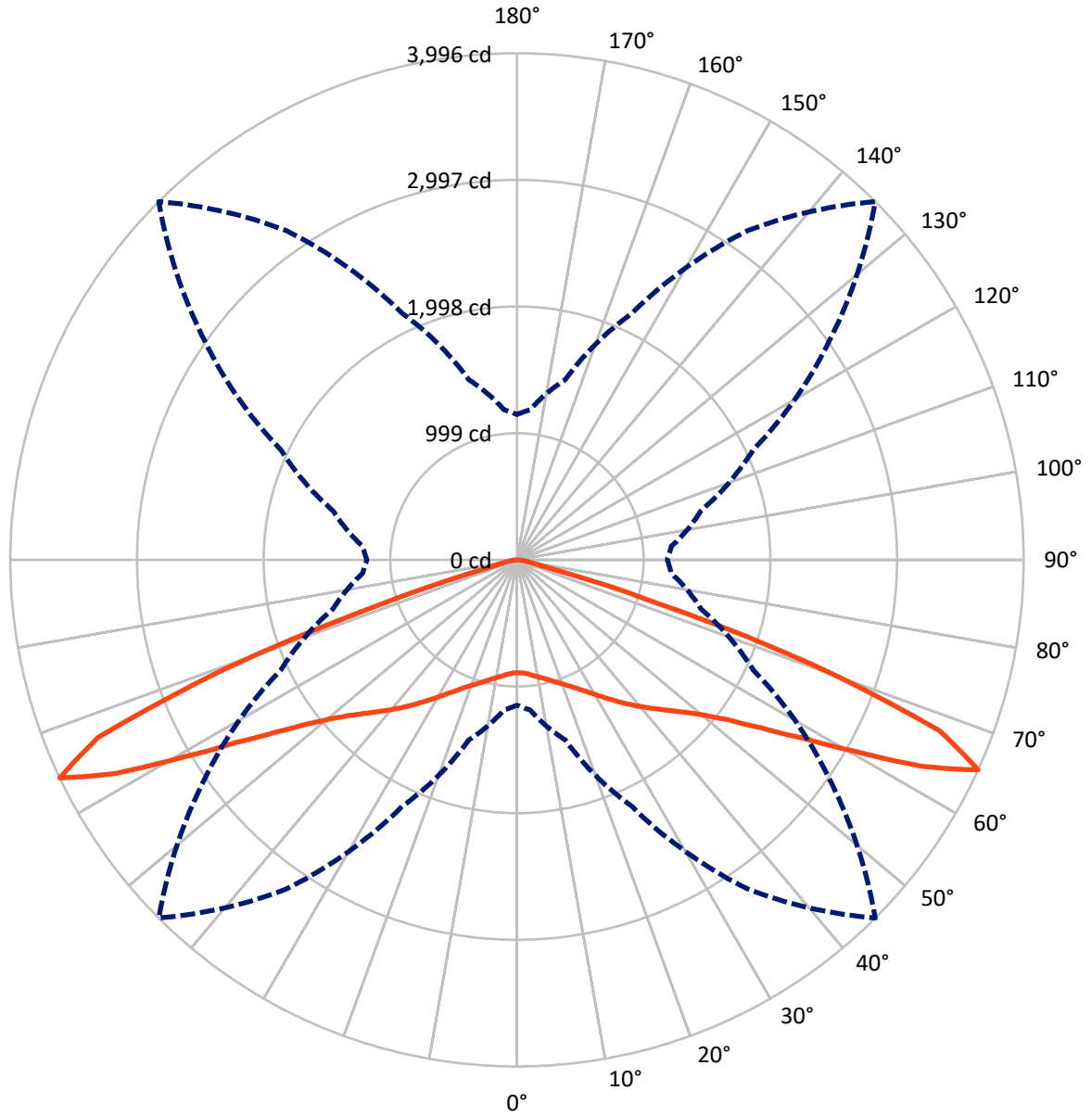
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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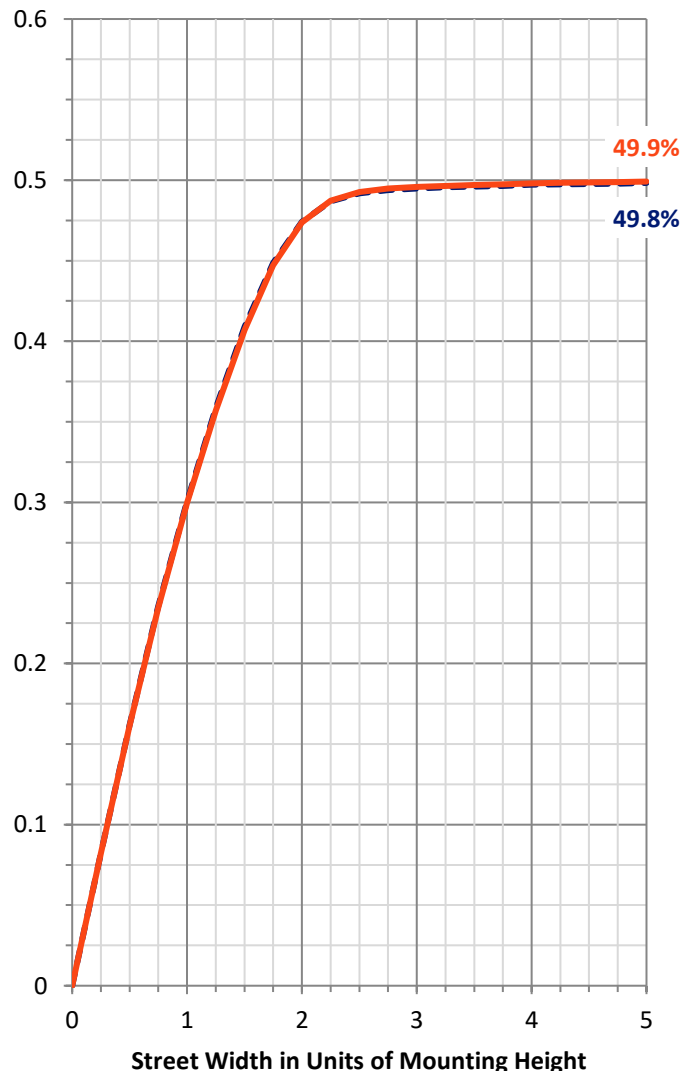
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3687.5 | 0.0 | 3687.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3687.5 | 0.0 | 3687.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7375.0 | 0.0 | 7375.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.4 | 1.2 |
| 10°-20° | 280.9 | 3.8 |
| 20°-30° | 527.0 | 7.1 |
| 30°-40° | 871.5 | 11.8 |
| 40°-50° | 1349.8 | 18.3 |
| 50°-60° | 2070.3 | 28.1 |
| 60°-70° | 1931.8 | 26.2 |
| 70°-80° | 224.8 | 3.0 |
| 80°-90° | 31.6 | 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° | 7375.0 | 100.0 |
| 0°-180° | 7375.0 | 100.0 |

Coefficient of Utilization



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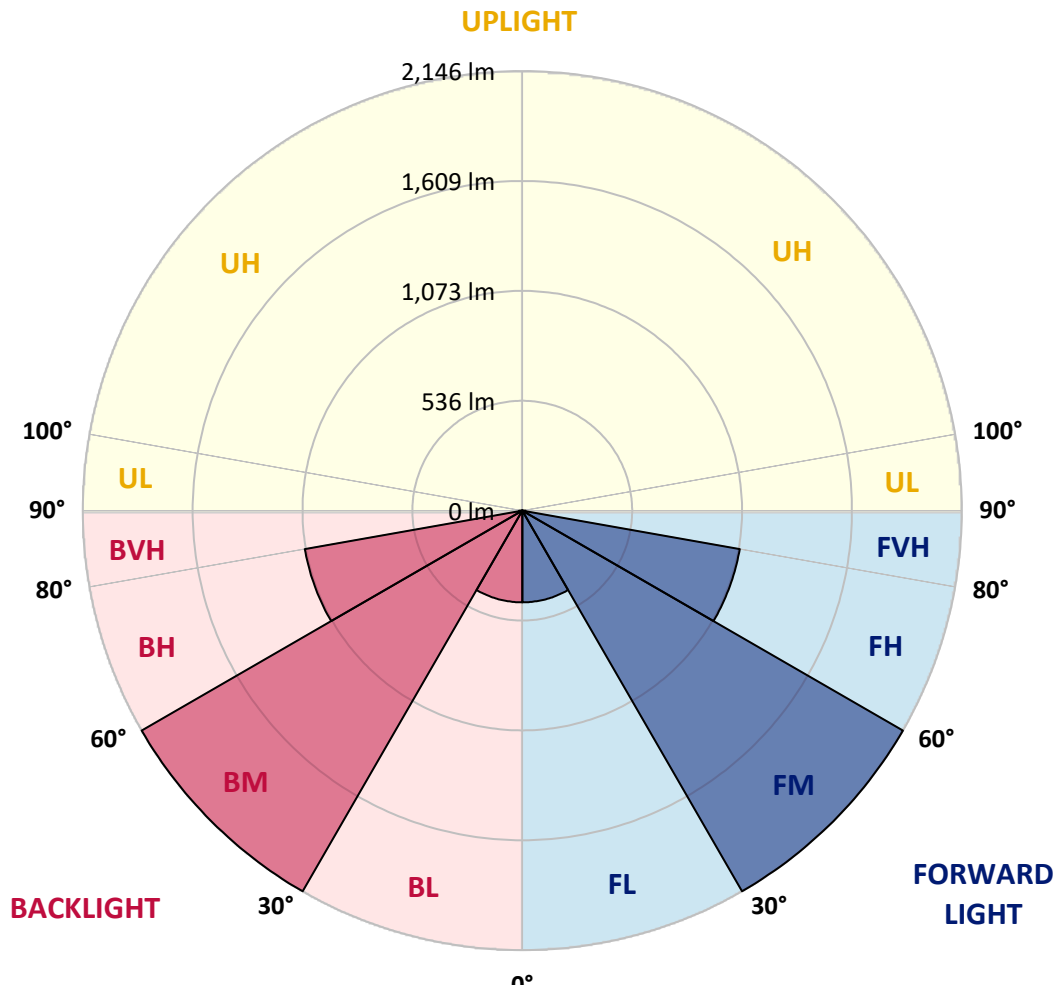
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 447.6 | 6.1 | | | |
| FM (30°-60°) | 2145.8 | 29.1 | | | |
| FH (60°-80°) | 1078.3 | 14.6 | | | G1/1800 |
| FVH (80°-90°) | 15.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 447.6 | 6.1 | B1/500 | | |
| BM (30°-60°) | 2145.8 | 29.1 | B2/2500 | | |
| BH (60°-80°) | 1078.3 | 14.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 15.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 | 890.6 |
| 2.5° | 893.6 | 893.1 | 893.6 | 893.8 | 892.3 | 893.1 | 892.8 | 894.1 | 894.5 | 894.1 | 894.1 |
| 5° | 903.8 | 903.1 | 904.1 | 905.3 | 903.4 | 903.8 | 903.1 | 904.6 | 905.1 | 904.1 | 904.8 |
| 7.5° | 918.0 | 918.3 | 919.3 | 921.5 | 920.2 | 921.2 | 919.8 | 920.0 | 919.8 | 918.3 | 918.5 |
| 10° | 933.5 | 933.7 | 935.4 | 938.4 | 938.9 | 938.9 | 937.9 | 937.1 | 936.2 | 935.2 | 935.4 |
| 12.5° | 952.1 | 953.3 | 954.5 | 958.2 | 958.2 | 960.2 | 959.7 | 957.7 | 956.0 | 954.5 | 954.5 |
| 15° | 977.3 | 977.0 | 978.5 | 982.2 | 983.9 | 987.1 | 987.1 | 984.4 | 982.2 | 980.7 | 980.2 |
| 17.5° | 1003.7 | 1004.5 | 1005.4 | 1009.8 | 1012.5 | 1016.2 | 1016.7 | 1014.5 | 1013.0 | 1011.1 | 1009.8 |
| 20° | 1034.6 | 1035.8 | 1039.7 | 1041.4 | 1043.9 | 1047.3 | 1048.5 | 1048.0 | 1046.6 | 1045.6 | 1045.8 |
| 22.5° | 1070.6 | 1073.7 | 1076.2 | 1078.6 | 1081.6 | 1084.0 | 1085.2 | 1087.0 | 1085.5 | 1084.8 | 1084.3 |
| 25° | 1114.1 | 1116.3 | 1121.2 | 1125.6 | 1127.6 | 1128.3 | 1129.8 | 1132.3 | 1132.0 | 1130.3 | 1130.3 |
| 27.5° | 1163.6 | 1167.8 | 1173.9 | 1180.2 | 1180.2 | 1177.8 | 1182.7 | 1186.8 | 1185.4 | 1183.2 | 1180.2 |
| 30° | 1223.6 | 1227.5 | 1234.6 | 1243.4 | 1239.0 | 1237.3 | 1243.9 | 1251.5 | 1249.3 | 1245.6 | 1245.1 |
| 32.5° | 1288.2 | 1291.9 | 1301.2 | 1310.7 | 1305.1 | 1302.6 | 1309.7 | 1320.8 | 1316.8 | 1309.5 | 1305.1 |
| 35° | 1358.2 | 1361.9 | 1375.1 | 1386.6 | 1377.1 | 1372.9 | 1378.8 | 1390.8 | 1383.9 | 1370.2 | 1366.8 |
| 37.5° | 1434.4 | 1436.3 | 1453.4 | 1465.2 | 1458.6 | 1447.6 | 1454.9 | 1463.7 | 1457.9 | 1441.2 | 1434.6 |
| 40° | 1513.4 | 1520.5 | 1540.4 | 1554.1 | 1542.6 | 1525.2 | 1537.4 | 1549.7 | 1540.8 | 1519.5 | 1508.3 |
| 42.5° | 1605.7 | 1611.1 | 1637.5 | 1649.8 | 1631.2 | 1606.7 | 1623.3 | 1640.0 | 1631.2 | 1610.6 | 1600.8 |
| 45° | 1701.7 | 1710.0 | 1741.6 | 1753.8 | 1726.9 | 1695.8 | 1716.1 | 1745.3 | 1744.5 | 1714.9 | 1704.6 |
| 47.5° | 1806.2 | 1814.5 | 1852.2 | 1868.4 | 1839.3 | 1797.7 | 1826.3 | 1867.4 | 1864.5 | 1831.9 | 1823.6 |
| 50° | 1926.9 | 1935.7 | 1982.7 | 2003.0 | 1975.9 | 1927.4 | 1970.5 | 2006.7 | 2001.3 | 1961.2 | 1961.9 |
| 52.5° | 2078.5 | 2078.0 | 2136.5 | 2171.7 | 2143.8 | 2101.0 | 2140.6 | 2175.9 | 2153.6 | 2098.0 | 2096.3 |
| 55° | 2211.1 | 2219.2 | 2291.7 | 2358.5 | 2356.8 | 2340.4 | 2356.3 | 2357.8 | 2294.1 | 2220.2 | 2211.1 |
| 57.5° | 2298.3 | 2313.7 | 2415.8 | 2536.7 | 2627.3 | 2649.1 | 2618.3 | 2524.7 | 2375.7 | 2257.4 | 2243.0 |
| 60° | 2244.7 | 2268.2 | 2428.5 | 2675.1 | 2941.9 | 3069.9 | 2895.9 | 2605.8 | 2312.2 | 2147.5 | 2127.9 |
| 62.5° | 1882.8 | 1922.5 | 2157.3 | 2608.2 | 3212.7 | 3587.0 | 3097.1 | 2475.8 | 2060.1 | 1833.1 | 1799.6 |
| 65° | 1146.7 | 1188.6 | 1471.6 | 2146.8 | 3168.8 | 3996.3 | 3005.3 | 2054.9 | 1503.6 | 1221.4 | 1185.1 |
| 67.5° | 382.2 | 394.4 | 561.1 | 1186.6 | 2490.5 | 3590.7 | 2494.6 | 1230.2 | 654.4 | 433.8 | 421.1 |
| 70° | 149.6 | 150.8 | 178.0 | 344.0 | 1176.1 | 2466.2 | 1297.7 | 350.1 | 186.1 | 147.1 | 150.3 |
| 72.5° | 109.9 | 110.4 | 118.0 | 143.7 | 306.5 | 1086.5 | 317.5 | 144.4 | 114.8 | 103.1 | 103.1 |
| 75° | 88.4 | 88.4 | 93.8 | 104.8 | 137.3 | 249.2 | 139.3 | 103.6 | 89.8 | 82.3 | 81.3 |
| 77.5° | 69.8 | 71.2 | 75.4 | 82.5 | 93.0 | 120.0 | 96.5 | 82.0 | 72.5 | 65.4 | 63.9 |
| 80° | 51.9 | 53.4 | 60.2 | 63.7 | 66.8 | 83.2 | 71.2 | 64.1 | 57.3 | 49.0 | 47.5 |
| 82.5° | 34.0 | 35.5 | 44.1 | 46.0 | 45.3 | 54.3 | 48.0 | 47.2 | 42.1 | 31.6 | 30.1 |
| 85° | 22.3 | 22.8 | 29.4 | 30.6 | 28.2 | 24.7 | 30.6 | 32.3 | 29.4 | 20.6 | 19.8 |
| 87.5° | 10.5 | 10.5 | 14.9 | 14.0 | 12.7 | 10.3 | 14.0 | 16.4 | 16.6 | 10.0 | 9.8 |
| 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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