

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: P387158

Luminaire Tested: **GWC-SA2D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
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-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8453 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

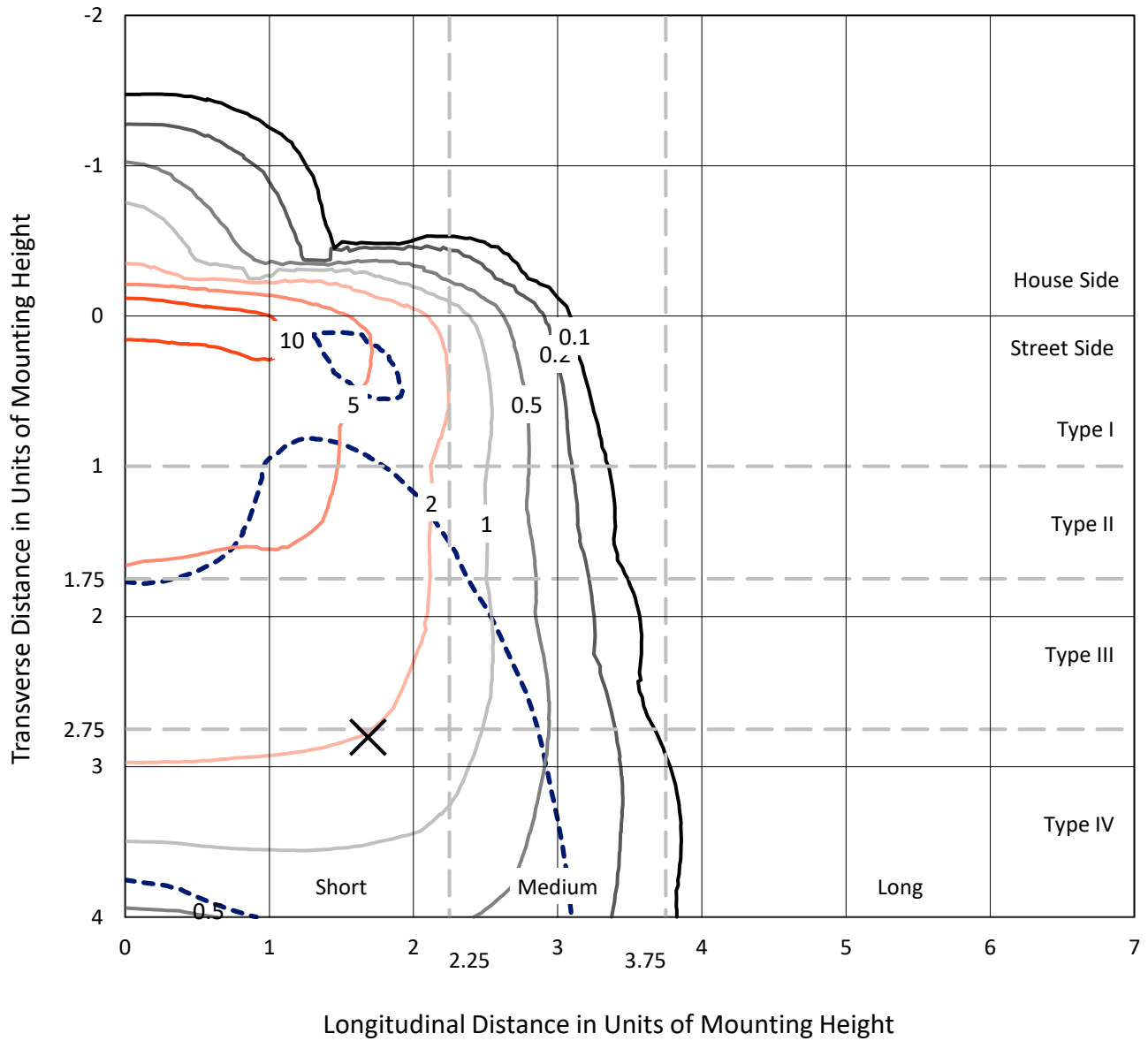
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

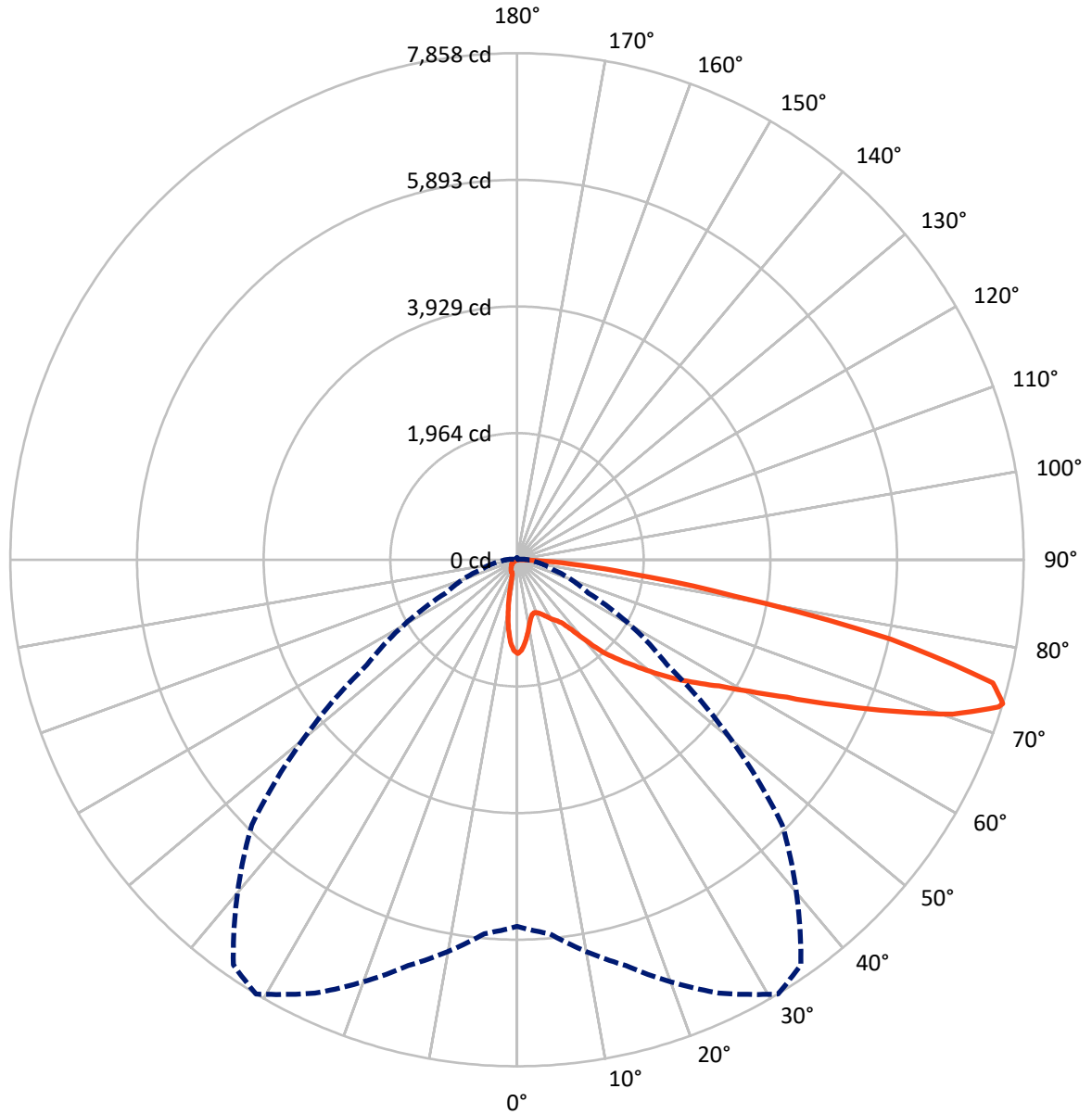
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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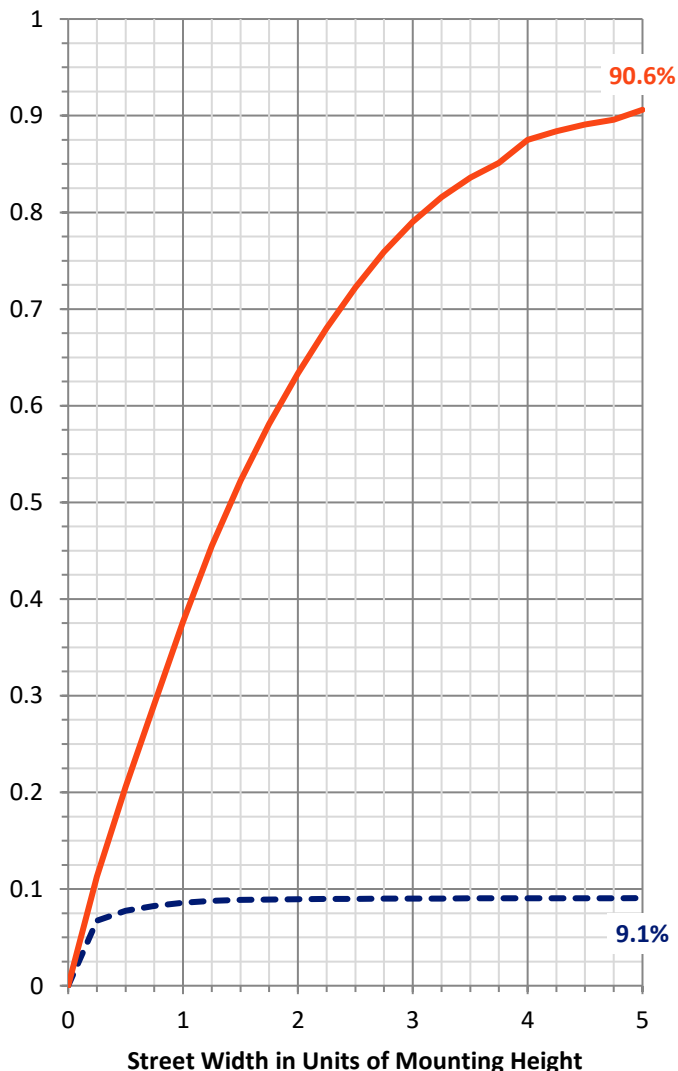
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 770.5 | 0.0 | 770.5 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 7682.5 | 0.0 | 7682.5 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 8453.0 | 0.0 | 8453.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.6 | 1.4 |
| 10°-20° | 261.8 | 3.1 |
| 20°-30° | 392.3 | 4.6 |
| 30°-40° | 624.1 | 7.4 |
| 40°-50° | 1114.5 | 13.2 |
| 50°-60° | 1729.5 | 20.5 |
| 60°-70° | 2299.1 | 27.2 |
| 70°-80° | 1729.4 | 20.5 |
| 80°-90° | 181.7 | 2.1 |
| 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° | 8453.0 | 100.0 |
| 0°-180° | 8453.0 | 100.0 |

Coefficient of Utilization



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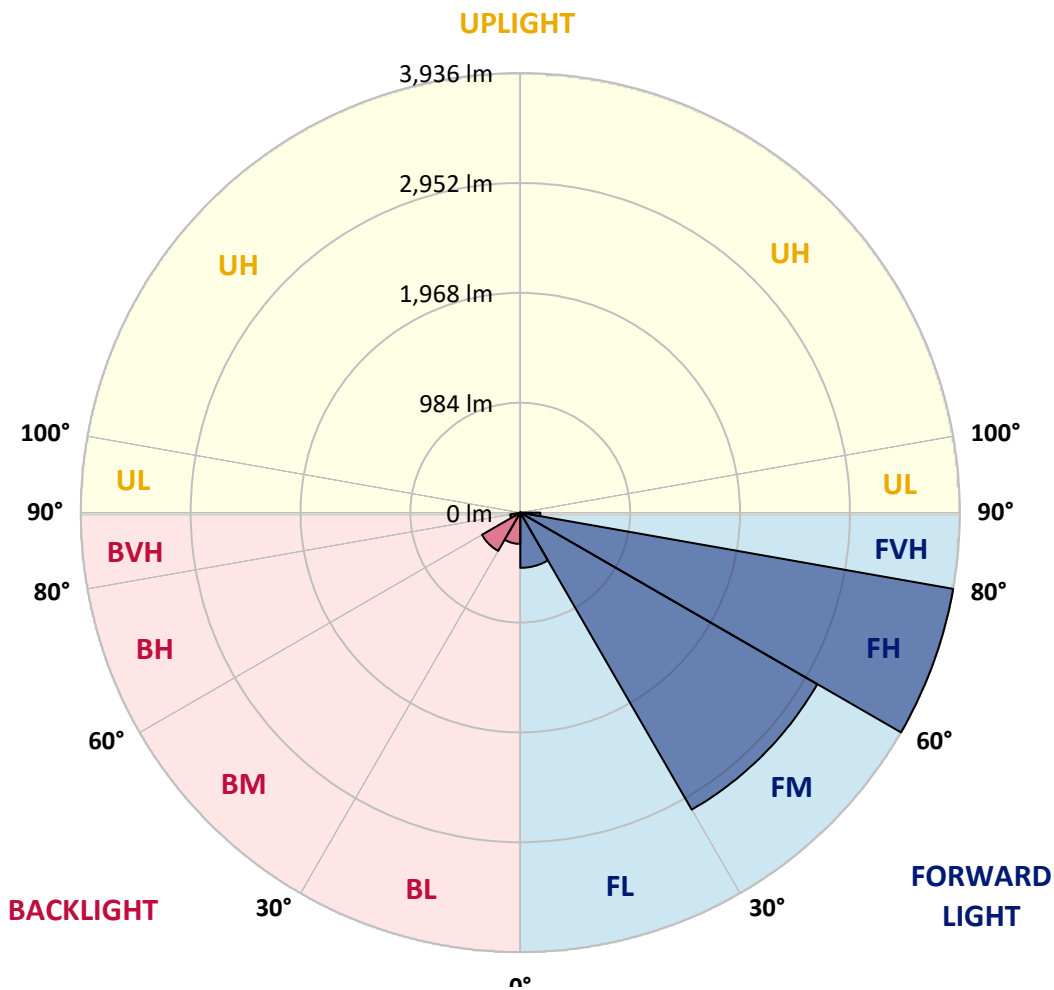
CATALOG NUMBER: GWC-SA2D-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 494.5 | 5.9 | | | |
| FM (30°-60°) | 3071.5 | 36.3 | | | |
| FH (60°-80°) | 3936.2 | 46.6 | | | G2/5000 |
| FVH (80°-90°) | 180.2 | 2.1 | | | G2/225 |
| BL (0°-30°) | 280.2 | 3.3 | B1/500 | | |
| BM (30°-60°) | 396.6 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 92.2 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 |
| 2.5° | 1378.2 | 1384.0 | 1390.2 | 1391.5 | 1401.8 | 1402.2 | 1417.1 | 1428.3 | 1439.5 | 1450.2 | 1453.9 |
| 5° | 1236.8 | 1246.3 | 1257.5 | 1268.6 | 1290.6 | 1299.2 | 1335.6 | 1372.9 | 1408.4 | 1442.4 | 1458.9 |
| 7.5° | 1085.8 | 1096.6 | 1112.3 | 1140.0 | 1164.4 | 1181.4 | 1238.8 | 1305.0 | 1371.2 | 1433.7 | 1469.7 |
| 10° | 948.1 | 958.0 | 974.5 | 1003.9 | 1041.5 | 1064.7 | 1142.1 | 1233.9 | 1331.1 | 1425.8 | 1485.8 |
| 12.5° | 860.4 | 865.7 | 874.8 | 906.3 | 940.2 | 966.3 | 1057.3 | 1171.0 | 1298.0 | 1425.4 | 1511.9 |
| 15° | 844.2 | 845.9 | 838.4 | 852.5 | 879.0 | 904.2 | 996.5 | 1120.1 | 1272.8 | 1432.0 | 1545.8 |
| 17.5° | 869.9 | 869.1 | 844.2 | 842.6 | 863.7 | 884.4 | 966.7 | 1085.0 | 1255.0 | 1447.3 | 1589.6 |
| 20° | 908.8 | 905.9 | 862.9 | 855.0 | 877.3 | 896.8 | 964.6 | 1071.7 | 1248.4 | 1473.0 | 1643.0 |
| 22.5° | 960.5 | 955.5 | 888.1 | 879.8 | 903.8 | 924.1 | 990.3 | 1084.6 | 1254.2 | 1507.3 | 1705.0 |
| 25° | 1024.6 | 1017.1 | 931.5 | 922.4 | 946.8 | 967.1 | 1036.2 | 1121.4 | 1271.5 | 1549.1 | 1783.6 |
| 27.5° | 1097.0 | 1086.2 | 1001.0 | 977.4 | 1005.1 | 1026.2 | 1097.4 | 1177.6 | 1298.8 | 1593.3 | 1880.0 |
| 30° | 1165.2 | 1151.2 | 1074.2 | 1035.3 | 1069.3 | 1092.8 | 1163.6 | 1244.6 | 1342.7 | 1661.6 | 2011.9 |
| 32.5° | 1233.9 | 1218.2 | 1139.6 | 1093.2 | 1123.9 | 1149.5 | 1231.8 | 1336.9 | 1425.0 | 1765.8 | 2187.3 |
| 35° | 1391.9 | 1375.4 | 1279.0 | 1202.4 | 1202.0 | 1216.5 | 1327.4 | 1463.0 | 1533.8 | 1911.0 | 2396.6 |
| 37.5° | 1657.9 | 1648.4 | 1556.5 | 1411.3 | 1372.5 | 1356.3 | 1457.7 | 1613.6 | 1690.1 | 2110.8 | 2632.8 |
| 40° | 1949.1 | 1940.8 | 1837.8 | 1706.3 | 1647.1 | 1607.4 | 1644.6 | 1823.3 | 1911.0 | 2354.8 | 2874.0 |
| 42.5° | 2277.9 | 2238.6 | 2055.0 | 2015.7 | 1962.7 | 1932.5 | 1899.0 | 2081.8 | 2182.4 | 2620.4 | 3113.0 |
| 45° | 2576.6 | 2510.4 | 2272.1 | 2212.6 | 2200.6 | 2208.0 | 2226.6 | 2429.3 | 2487.6 | 2936.0 | 3351.3 |
| 47.5° | 2754.4 | 2702.3 | 2519.5 | 2462.4 | 2459.1 | 2508.3 | 2648.9 | 2821.8 | 2791.7 | 3211.1 | 3561.0 |
| 50° | 2923.6 | 2876.4 | 2724.6 | 2738.7 | 2754.0 | 2821.0 | 3128.4 | 3225.6 | 3069.2 | 3460.5 | 3753.4 |
| 52.5° | 3060.5 | 2988.5 | 2909.1 | 2988.1 | 3063.4 | 3171.4 | 3623.1 | 3587.9 | 3266.1 | 3659.1 | 3918.0 |
| 55° | 3139.5 | 3106.8 | 3145.3 | 3224.7 | 3366.2 | 3541.6 | 4090.1 | 3889.5 | 3410.0 | 3840.2 | 4027.6 |
| 57.5° | 3429.1 | 3365.0 | 3441.5 | 3510.1 | 3694.6 | 3939.9 | 4490.1 | 4114.1 | 3513.9 | 3952.3 | 4052.8 |
| 60° | 3779.4 | 3727.7 | 3772.8 | 3887.0 | 4136.0 | 4424.3 | 4864.0 | 4297.3 | 3568.1 | 4024.3 | 3987.5 |
| 62.5° | 4337.0 | 4268.8 | 4240.6 | 4368.4 | 4698.5 | 5013.3 | 5147.7 | 4424.3 | 3556.1 | 3992.4 | 3763.3 |
| 65° | 5084.0 | 5013.3 | 4887.6 | 5003.4 | 5423.2 | 5645.3 | 5465.0 | 4451.2 | 3473.3 | 3734.7 | 3196.6 |
| 67.5° | 5849.3 | 5798.0 | 5690.4 | 5885.7 | 6264.6 | 6336.1 | 5800.5 | 4385.8 | 3206.9 | 3028.3 | 2258.5 |
| 70° | 6354.7 | 6332.8 | 6402.7 | 6834.6 | 7172.5 | 7151.8 | 6108.2 | 4034.6 | 2499.6 | 1862.2 | 1117.2 |
| 72.5° | 5990.3 | 6095.4 | 6611.6 | 7394.6 | 7807.4 | 7638.7 | 5950.2 | 3098.2 | 1428.7 | 716.4 | 323.1 |
| 73° | 5688.4 | 5822.8 | 6517.7 | 7415.7 | 7857.5 | 7672.6 | 5817.4 | 2843.8 | 1217.8 | 565.4 | 244.9 |
| 75° | 3957.3 | 4122.3 | 5395.9 | 6906.5 | 7623.4 | 7310.2 | 4849.1 | 1740.6 | 564.2 | 250.7 | 98.9 |
| 77.5° | 1921.4 | 2043.4 | 2971.2 | 4990.1 | 5928.7 | 5711.5 | 3018.7 | 648.6 | 254.8 | 156.8 | 45.5 |
| 80° | 717.3 | 797.5 | 1289.7 | 2539.7 | 3426.2 | 3515.9 | 1327.8 | 245.3 | 169.6 | 126.2 | 23.2 |
| 82.5° | 187.8 | 209.3 | 475.7 | 1132.5 | 1755.9 | 1837.8 | 418.6 | 123.7 | 124.1 | 103.8 | 14.1 |
| 85° | 60.0 | 68.7 | 148.5 | 508.4 | 827.3 | 726.4 | 109.2 | 60.0 | 90.2 | 77.4 | 7.9 |
| 87.5° | 7.4 | 9.5 | 47.2 | 119.5 | 182.4 | 101.3 | 17.0 | 17.8 | 38.5 | 43.0 | 4.6 |
| 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° | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 | 1454.4 |
| 2.5° | 1457.7 | 1455.6 | 1456.0 | 1445.3 | 1438.2 | 1424.2 | 1409.7 | 1403.1 | 1396.0 | 1393.1 | 1396.0 |
| 5° | 1465.1 | 1461.4 | 1450.6 | 1417.5 | 1382.4 | 1336.9 | 1294.3 | 1262.0 | 1221.5 | 1210.3 | 1221.9 |
| 7.5° | 1476.7 | 1469.2 | 1437.8 | 1370.4 | 1292.2 | 1205.3 | 1107.7 | 1036.6 | 978.3 | 940.6 | 954.3 |
| 10° | 1493.7 | 1479.6 | 1416.3 | 1301.7 | 1161.9 | 1008.0 | 869.5 | 761.5 | 685.0 | 653.6 | 652.3 |
| 12.5° | 1522.2 | 1495.7 | 1389.8 | 1212.4 | 1002.7 | 797.5 | 615.9 | 498.8 | 436.8 | 396.7 | 395.9 |
| 15° | 1553.6 | 1514.7 | 1356.3 | 1105.2 | 817.4 | 571.2 | 396.7 | 307.7 | 267.6 | 254.8 | 253.1 |
| 17.5° | 1592.1 | 1536.7 | 1312.9 | 973.3 | 623.4 | 378.5 | 258.9 | 233.3 | 231.6 | 230.4 | 230.4 |
| 20° | 1640.5 | 1562.7 | 1257.0 | 822.3 | 442.2 | 252.7 | 220.1 | 221.7 | 222.5 | 220.9 | 221.3 |
| 22.5° | 1696.7 | 1589.2 | 1190.5 | 660.2 | 299.1 | 211.4 | 210.5 | 212.6 | 213.4 | 212.6 | 213.0 |
| 25° | 1762.1 | 1619.8 | 1109.4 | 490.2 | 215.9 | 200.6 | 202.7 | 205.6 | 207.6 | 207.6 | 207.6 |
| 27.5° | 1843.2 | 1657.0 | 1011.8 | 342.1 | 186.6 | 189.4 | 195.2 | 200.6 | 203.5 | 204.3 | 204.3 |
| 30° | 1948.7 | 1703.4 | 894.7 | 234.5 | 169.6 | 174.6 | 185.3 | 195.7 | 201.0 | 201.9 | 202.3 |
| 32.5° | 2081.8 | 1755.5 | 759.0 | 173.3 | 155.1 | 158.8 | 170.4 | 187.8 | 198.1 | 199.8 | 199.8 |
| 35° | 2234.5 | 1815.9 | 613.0 | 151.0 | 144.8 | 146.0 | 155.1 | 175.0 | 193.2 | 197.7 | 198.1 |
| 37.5° | 2401.6 | 1875.4 | 466.2 | 141.1 | 136.1 | 136.1 | 142.7 | 159.7 | 181.2 | 195.2 | 196.9 |
| 40° | 2557.5 | 1911.4 | 326.8 | 133.2 | 128.2 | 128.2 | 134.0 | 146.4 | 166.7 | 187.8 | 192.3 |
| 42.5° | 2701.5 | 1923.8 | 227.5 | 125.7 | 120.8 | 122.0 | 127.0 | 136.9 | 152.2 | 173.3 | 177.5 |
| 45° | 2849.6 | 1921.8 | 165.9 | 117.1 | 113.3 | 117.1 | 120.8 | 128.2 | 139.4 | 151.4 | 152.2 |
| 47.5° | 2961.2 | 1904.4 | 131.5 | 108.8 | 106.3 | 111.3 | 114.6 | 119.5 | 125.7 | 124.9 | 124.9 |
| 50° | 3065.9 | 1862.2 | 105.9 | 97.6 | 99.3 | 105.1 | 106.7 | 108.4 | 108.8 | 100.9 | 100.1 |
| 52.5° | 3145.3 | 1796.4 | 84.8 | 85.6 | 92.2 | 98.0 | 96.4 | 93.9 | 89.8 | 80.2 | 78.6 |
| 55° | 3171.8 | 1669.9 | 66.6 | 70.7 | 81.9 | 89.3 | 83.1 | 77.8 | 69.9 | 62.0 | 60.4 |
| 57.5° | 3123.8 | 1506.5 | 54.2 | 55.0 | 69.1 | 75.3 | 68.3 | 62.0 | 53.4 | 46.7 | 45.5 |
| 60° | 3022.0 | 1324.9 | 44.7 | 41.4 | 53.4 | 58.7 | 54.2 | 48.0 | 40.1 | 35.2 | 34.7 |
| 62.5° | 2820.2 | 1131.3 | 36.8 | 32.3 | 40.5 | 45.1 | 42.2 | 37.6 | 31.0 | 27.7 | 27.3 |
| 65° | 2395.8 | 905.0 | 29.8 | 26.1 | 31.4 | 35.2 | 32.7 | 29.4 | 24.4 | 21.9 | 21.5 |
| 67.5° | 1672.3 | 611.8 | 24.4 | 21.5 | 24.8 | 27.7 | 25.6 | 24.0 | 19.4 | 19.0 | 19.4 |
| 70° | 806.6 | 294.9 | 20.3 | 17.4 | 19.4 | 21.5 | 20.7 | 19.4 | 18.6 | 21.5 | 24.8 |
| 72.5° | 231.2 | 98.9 | 16.1 | 14.5 | 15.7 | 17.0 | 17.8 | 17.4 | 20.3 | 26.1 | 30.2 |
| 73° | 177.9 | 79.8 | 15.3 | 13.7 | 14.9 | 16.5 | 17.4 | 17.0 | 20.7 | 26.5 | 30.2 |
| 75° | 76.1 | 38.5 | 11.6 | 11.2 | 12.4 | 14.5 | 15.3 | 15.3 | 20.7 | 26.9 | 29.0 |
| 77.5° | 34.3 | 20.7 | 7.4 | 8.7 | 10.8 | 11.6 | 12.8 | 12.8 | 16.5 | 20.7 | 20.7 |
| 80° | 19.4 | 11.2 | 5.8 | 6.6 | 7.9 | 7.9 | 7.9 | 7.0 | 7.4 | 8.3 | 9.1 |
| 82.5° | 12.4 | 7.4 | 4.6 | 5.4 | 5.0 | 4.1 | 3.3 | 3.3 | 2.9 | 3.3 | 4.1 |
| 85° | 7.0 | 4.1 | 4.1 | 3.3 | 2.1 | 1.7 | 2.1 | 1.7 | 0.4 | 0.0 | 0.4 |
| 87.5° | 4.1 | 2.5 | 1.2 | 0.0 | 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 |

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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