

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: P387104

Luminaire Tested: **GWC-SA2D-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-750-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11736 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

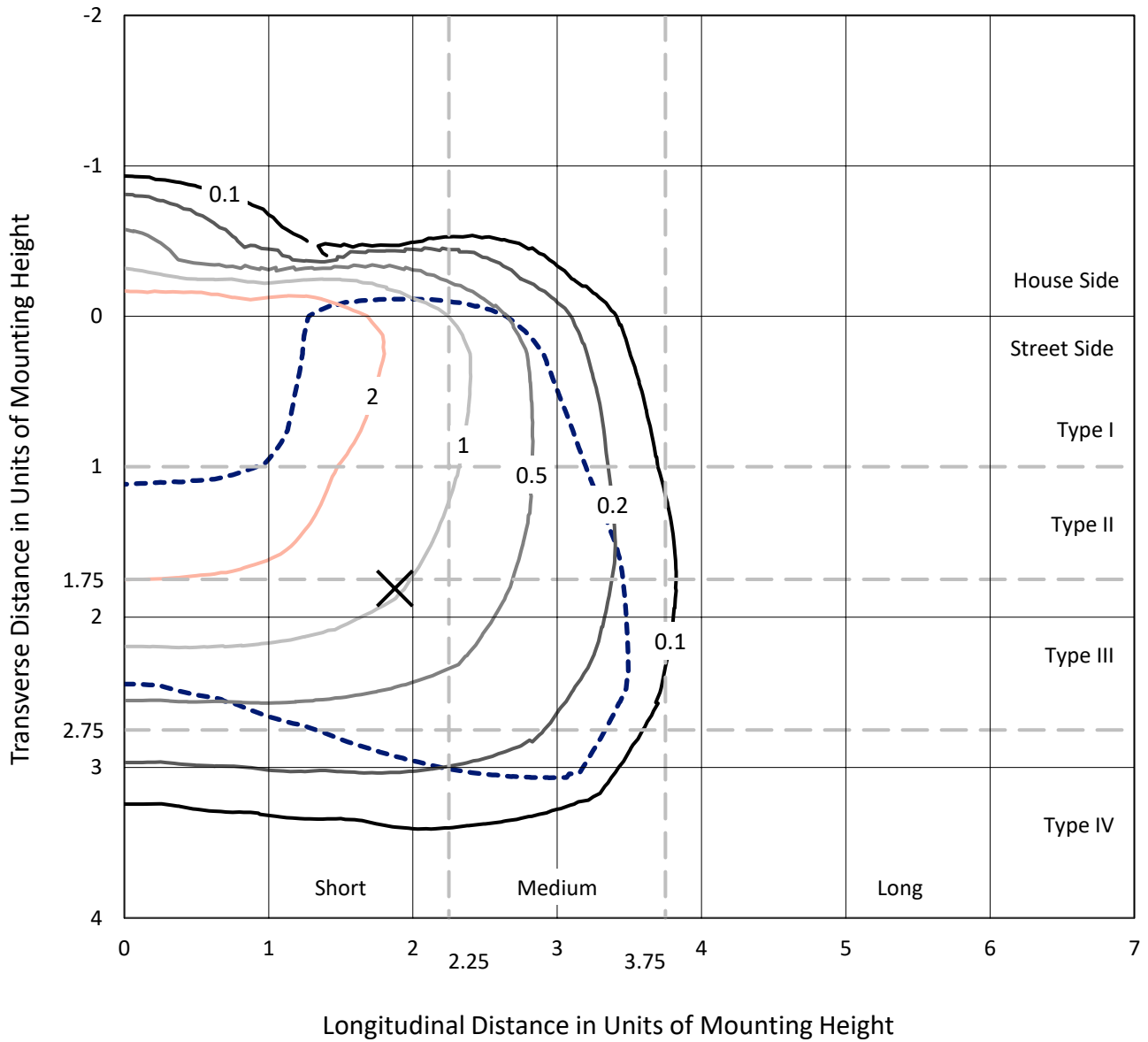
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

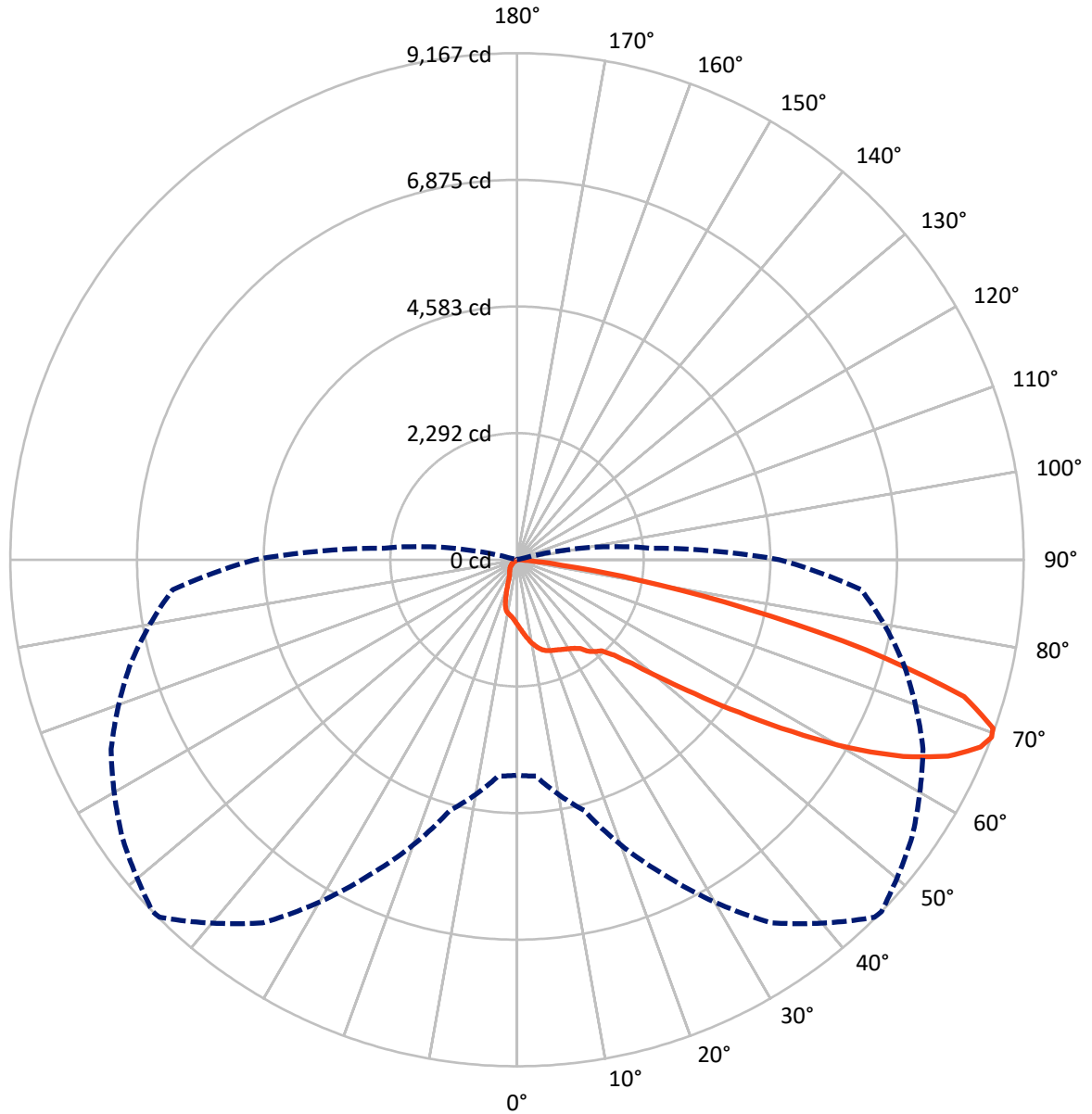
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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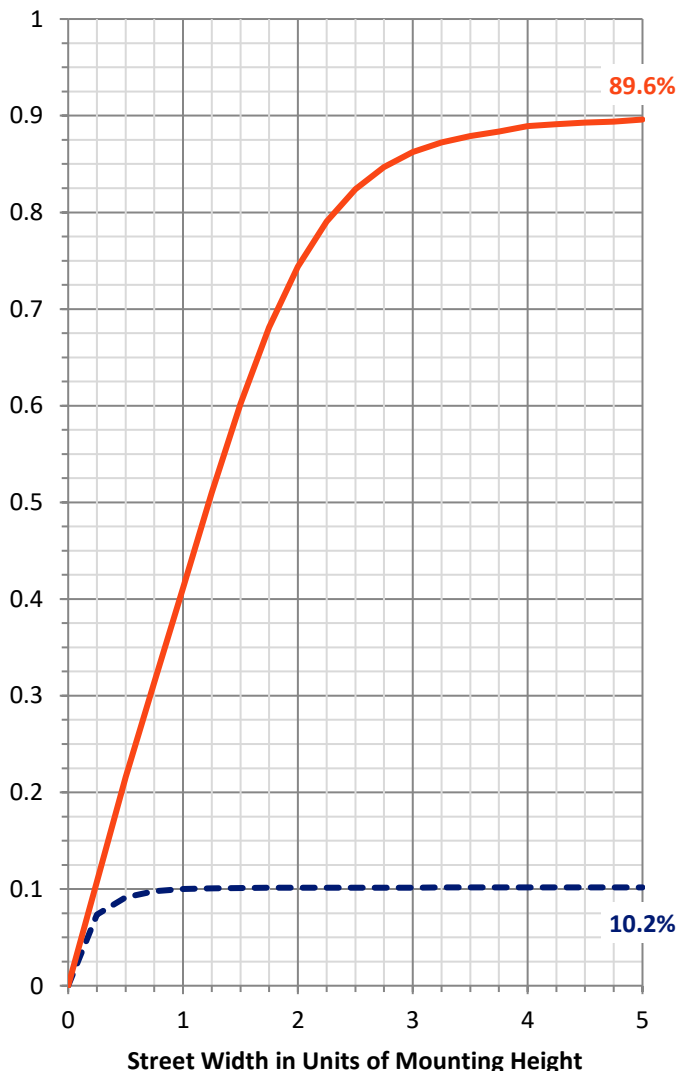
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1204.5 | 0.0 | 1204.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 10531.6 | 0.0 | 10531.6 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 11736.0 | 0.0 | 11736.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 117.0 | 1.0 |
| 10°-20° | 355.1 | 3.0 |
| 20°-30° | 558.4 | 4.8 |
| 30°-40° | 800.8 | 6.8 |
| 40°-50° | 1384.1 | 11.8 |
| 50°-60° | 2734.3 | 23.3 |
| 60°-70° | 3821.5 | 32.6 |
| 70°-80° | 1846.2 | 15.7 |
| 80°-90° | 118.7 | 1.0 |
| 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° | 11736.0 | 100.0 |
| 0°-180° | 11736.0 | 100.0 |

Coefficient of Utilization



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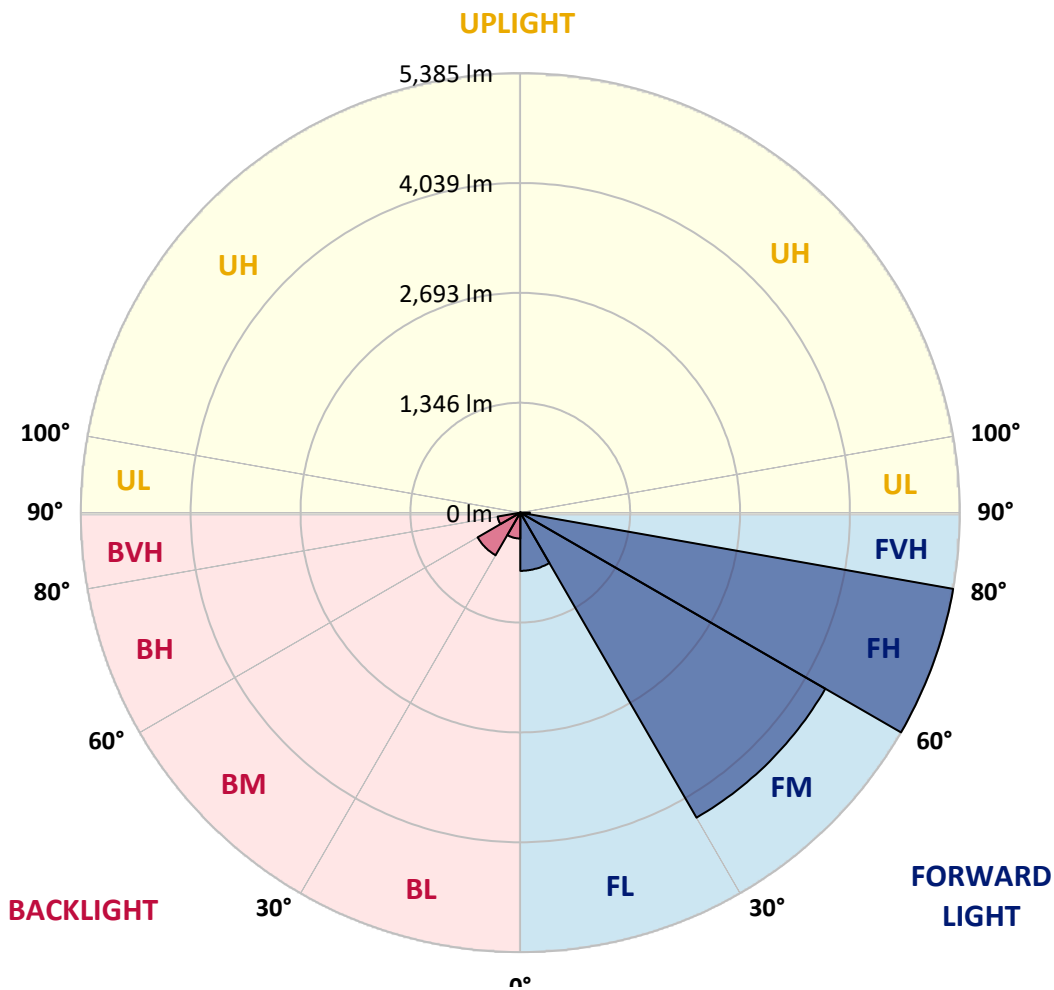
CATALOG NUMBER: GWC-SA2D-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 713.1 | 6.1 | | | |
| FM (30°-60°) | 4315.6 | 36.8 | | | |
| FH (60°-80°) | 5385.2 | 45.9 | | | G3/7500 |
| FVH (80°-90°) | 117.7 | 1.0 | | | G2/225 |
| BL (0°-30°) | 317.4 | 2.7 | B1/500 | | |
| BM (30°-60°) | 603.6 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 282.4 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.0 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 |
| 2.5° | 1306.3 | 1304.7 | 1297.0 | 1293.7 | 1274.9 | 1263.9 | 1259.5 | 1245.8 | 1226.0 | 1206.2 | 1184.2 |
| 5° | 1454.9 | 1454.3 | 1440.0 | 1426.3 | 1391.1 | 1358.0 | 1352.0 | 1320.1 | 1275.5 | 1233.7 | 1191.9 |
| 7.5° | 1606.8 | 1599.6 | 1585.3 | 1558.9 | 1507.7 | 1454.9 | 1449.9 | 1404.8 | 1341.5 | 1281.0 | 1221.0 |
| 10° | 1735.5 | 1731.1 | 1712.4 | 1672.2 | 1612.3 | 1552.3 | 1546.2 | 1490.7 | 1419.1 | 1344.8 | 1268.3 |
| 12.5° | 1835.7 | 1832.4 | 1807.6 | 1757.5 | 1693.7 | 1631.5 | 1623.3 | 1573.7 | 1497.3 | 1414.2 | 1323.9 |
| 15° | 1896.7 | 1895.1 | 1864.8 | 1811.5 | 1748.7 | 1694.8 | 1687.6 | 1644.2 | 1573.2 | 1486.2 | 1384.5 |
| 17.5° | 1911.0 | 1911.6 | 1880.2 | 1826.3 | 1774.6 | 1736.1 | 1730.6 | 1697.5 | 1638.1 | 1551.7 | 1445.0 |
| 20° | 1879.1 | 1885.7 | 1857.7 | 1810.9 | 1779.0 | 1758.6 | 1754.2 | 1734.4 | 1684.3 | 1602.9 | 1493.4 |
| 22.5° | 1834.0 | 1837.3 | 1818.1 | 1786.7 | 1773.5 | 1777.3 | 1775.1 | 1764.1 | 1721.8 | 1646.9 | 1541.3 |
| 25° | 1806.5 | 1806.5 | 1794.9 | 1768.5 | 1777.3 | 1801.0 | 1801.5 | 1799.3 | 1765.8 | 1700.9 | 1599.6 |
| 27.5° | 1805.4 | 1802.1 | 1788.9 | 1769.1 | 1793.3 | 1829.6 | 1831.8 | 1846.7 | 1825.8 | 1766.3 | 1672.2 |
| 30° | 1849.4 | 1845.6 | 1817.5 | 1791.6 | 1822.5 | 1861.5 | 1867.0 | 1899.5 | 1889.0 | 1837.3 | 1753.1 |
| 32.5° | 1952.3 | 1938.6 | 1876.4 | 1834.0 | 1857.1 | 1903.9 | 1911.0 | 1962.8 | 1979.3 | 1924.8 | 1831.3 |
| 35° | 2093.2 | 2049.7 | 1960.0 | 1914.4 | 1916.6 | 1965.5 | 1972.1 | 2048.1 | 2097.0 | 2005.1 | 1891.8 |
| 37.5° | 2287.4 | 2266.0 | 2120.1 | 1998.0 | 2007.9 | 2082.2 | 2101.4 | 2184.0 | 2170.2 | 2049.2 | 1960.6 |
| 40° | 2713.3 | 2679.8 | 2524.6 | 2232.4 | 2095.4 | 2176.8 | 2182.9 | 2226.9 | 2228.0 | 2148.8 | 2103.6 |
| 42.5° | 3293.3 | 3279.5 | 3116.1 | 2657.8 | 2267.6 | 2240.1 | 2251.1 | 2325.4 | 2408.5 | 2359.0 | 2356.8 |
| 45° | 3935.5 | 3928.3 | 3755.0 | 3222.3 | 2615.9 | 2447.6 | 2461.3 | 2560.9 | 2719.9 | 2730.9 | 2800.8 |
| 47.5° | 4452.1 | 4448.8 | 4349.2 | 3852.4 | 3149.1 | 2799.2 | 2803.6 | 2909.2 | 3188.8 | 3326.9 | 3438.6 |
| 50° | 4923.2 | 4939.1 | 4860.4 | 4534.1 | 3875.5 | 3350.0 | 3339.5 | 3410.0 | 3859.0 | 4085.1 | 4223.8 |
| 52.5° | 5578.0 | 5600.5 | 5379.9 | 5170.2 | 4637.6 | 4033.4 | 4025.1 | 4098.9 | 4664.5 | 4834.0 | 4858.8 |
| 55° | 6156.3 | 6117.8 | 5943.3 | 5882.8 | 5567.0 | 4877.5 | 4875.3 | 4940.2 | 5443.7 | 5515.8 | 5561.5 |
| 57.5° | 6411.6 | 6396.8 | 6480.9 | 6619.6 | 6540.4 | 5875.1 | 5870.2 | 5820.6 | 6140.9 | 6148.6 | 6288.9 |
| 60° | 6572.8 | 6591.0 | 6849.1 | 7276.6 | 7474.2 | 6948.7 | 6916.8 | 6614.7 | 6806.7 | 6789.6 | 6939.9 |
| 62.5° | 6451.8 | 6487.6 | 6952.0 | 7664.6 | 8173.0 | 7885.8 | 7840.6 | 7342.1 | 7375.7 | 7316.8 | 7456.6 |
| 65° | 5809.1 | 5864.7 | 6625.7 | 7591.4 | 8519.7 | 8618.2 | 8572.5 | 7984.3 | 7827.4 | 7730.6 | 7653.0 |
| 67.5° | 4716.8 | 4749.8 | 5544.4 | 6954.7 | 8363.4 | 9055.1 | 9045.7 | 8547.2 | 8168.6 | 7660.7 | 7058.7 |
| 69° | 3898.0 | 3930.5 | 4695.4 | 6284.5 | 8019.5 | 9148.6 | 9166.8 | 8727.7 | 8103.7 | 7235.9 | 6254.2 |
| 70° | 3301.6 | 3336.2 | 4048.8 | 5710.0 | 7620.5 | 9105.1 | 9137.6 | 8710.6 | 7917.7 | 6744.0 | 5548.3 |
| 72.5° | 1731.7 | 1761.4 | 2492.7 | 3933.8 | 6212.4 | 8360.6 | 8459.1 | 7974.4 | 6711.5 | 4897.9 | 3280.6 |
| 75° | 544.2 | 561.3 | 973.4 | 2056.3 | 4253.5 | 6500.8 | 6523.3 | 6255.3 | 4765.8 | 2694.1 | 1366.3 |
| 77.5° | 207.4 | 202.5 | 324.1 | 757.7 | 2150.4 | 4093.4 | 4231.5 | 3909.0 | 2500.9 | 952.5 | 315.3 |
| 80° | 111.7 | 112.3 | 168.4 | 313.6 | 920.0 | 2103.6 | 2220.3 | 1894.5 | 888.7 | 297.1 | 72.6 |
| 82.5° | 48.4 | 50.6 | 94.6 | 166.2 | 422.6 | 775.9 | 834.2 | 694.4 | 339.5 | 199.7 | 27.0 |
| 85° | 10.5 | 11.6 | 45.7 | 90.2 | 172.2 | 217.9 | 228.4 | 225.1 | 216.3 | 155.2 | 10.5 |
| 87.5° | 0.0 | 0.0 | 20.4 | 32.5 | 43.5 | 49.5 | 43.5 | 56.7 | 119.4 | 104.5 | 5.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 | 1175.9 |
| 2.5° | 1177.0 | 1167.1 | 1150.0 | 1131.3 | 1118.1 | 1104.4 | 1093.4 | 1088.4 | 1082.9 | 1079.1 | 1084.0 |
| 5° | 1174.8 | 1155.5 | 1122.5 | 1090.6 | 1067.5 | 1048.8 | 1033.4 | 1027.3 | 1021.3 | 1016.9 | 1016.3 |
| 7.5° | 1194.1 | 1167.1 | 1116.5 | 1069.7 | 1033.9 | 1008.6 | 987.7 | 978.9 | 971.8 | 968.5 | 965.7 |
| 10° | 1230.9 | 1196.3 | 1128.6 | 1067.5 | 1021.3 | 978.4 | 933.2 | 898.6 | 876.0 | 865.6 | 861.7 |
| 12.5° | 1278.8 | 1235.3 | 1151.7 | 1079.1 | 1011.9 | 929.4 | 833.6 | 751.1 | 697.7 | 680.1 | 669.7 |
| 15° | 1334.9 | 1281.0 | 1182.0 | 1093.9 | 977.8 | 827.0 | 664.7 | 556.9 | 507.3 | 497.4 | 486.4 |
| 17.5° | 1388.9 | 1329.4 | 1218.3 | 1096.7 | 903.0 | 660.9 | 487.0 | 413.8 | 394.5 | 401.1 | 402.8 |
| 20° | 1436.2 | 1377.3 | 1254.0 | 1072.5 | 767.1 | 495.8 | 376.9 | 358.8 | 365.9 | 378.6 | 380.8 |
| 22.5° | 1484.0 | 1423.5 | 1287.1 | 1008.6 | 593.2 | 376.4 | 339.5 | 343.9 | 351.1 | 363.7 | 365.9 |
| 25° | 1542.4 | 1479.6 | 1317.9 | 891.4 | 445.2 | 320.3 | 322.5 | 329.1 | 336.2 | 347.8 | 348.9 |
| 27.5° | 1609.5 | 1550.6 | 1338.2 | 739.0 | 330.2 | 294.4 | 301.5 | 311.4 | 318.6 | 329.6 | 331.8 |
| 30° | 1698.6 | 1644.2 | 1344.8 | 581.1 | 276.8 | 271.3 | 274.6 | 286.7 | 297.1 | 307.0 | 308.7 |
| 32.5° | 1782.3 | 1736.6 | 1322.8 | 438.6 | 256.4 | 249.8 | 249.8 | 257.0 | 269.1 | 278.4 | 280.6 |
| 35° | 1859.3 | 1829.6 | 1252.4 | 320.8 | 241.0 | 230.0 | 224.5 | 224.5 | 232.2 | 239.9 | 242.1 |
| 37.5° | 1961.1 | 1960.0 | 1138.5 | 255.9 | 226.2 | 213.5 | 201.9 | 193.1 | 190.4 | 192.0 | 193.1 |
| 40° | 2135.6 | 2137.2 | 989.9 | 229.5 | 213.5 | 196.4 | 178.8 | 162.9 | 148.0 | 143.1 | 142.5 |
| 42.5° | 2407.9 | 2383.2 | 834.2 | 216.8 | 202.5 | 178.8 | 152.4 | 131.0 | 107.9 | 100.7 | 100.1 |
| 45° | 2840.4 | 2693.5 | 669.1 | 205.2 | 190.9 | 159.0 | 126.0 | 96.8 | 78.1 | 72.6 | 72.6 |
| 47.5° | 3470.5 | 3101.3 | 518.3 | 192.6 | 175.5 | 136.5 | 95.2 | 69.9 | 57.2 | 54.5 | 55.0 |
| 50° | 4122.0 | 3500.7 | 397.3 | 176.6 | 156.8 | 112.8 | 70.4 | 50.6 | 43.5 | 43.5 | 44.0 |
| 52.5° | 4699.8 | 3793.5 | 309.8 | 159.6 | 133.7 | 88.6 | 53.4 | 39.6 | 36.3 | 35.8 | 36.3 |
| 55° | 5240.7 | 3982.2 | 237.2 | 139.8 | 106.2 | 66.0 | 40.7 | 32.5 | 30.3 | 29.2 | 28.6 |
| 57.5° | 5762.3 | 4075.8 | 177.7 | 112.8 | 77.0 | 47.9 | 32.5 | 27.5 | 25.3 | 23.7 | 23.1 |
| 60° | 6109.5 | 3999.8 | 122.2 | 83.1 | 53.4 | 34.7 | 27.0 | 23.7 | 20.9 | 19.3 | 18.7 |
| 62.5° | 6305.4 | 3792.4 | 78.7 | 60.0 | 38.0 | 25.9 | 21.5 | 19.8 | 16.0 | 14.3 | 14.3 |
| 65° | 6226.2 | 3450.1 | 55.0 | 42.9 | 27.5 | 19.3 | 16.0 | 16.0 | 11.6 | 9.4 | 8.8 |
| 67.5° | 5517.4 | 2914.7 | 41.8 | 31.9 | 19.8 | 14.3 | 12.1 | 13.8 | 7.2 | 4.4 | 4.4 |
| 69° | 4747.1 | 2415.6 | 35.8 | 26.4 | 16.5 | 11.6 | 10.5 | 12.7 | 5.0 | 3.3 | 2.8 |
| 70° | 4125.8 | 2083.8 | 32.5 | 23.1 | 13.8 | 9.9 | 9.4 | 12.1 | 5.0 | 2.8 | 2.2 |
| 72.5° | 2468.5 | 1162.1 | 24.8 | 16.5 | 8.8 | 7.7 | 7.7 | 13.8 | 5.0 | 2.8 | 2.2 |
| 75° | 997.6 | 409.4 | 18.2 | 11.6 | 6.6 | 6.6 | 9.4 | 17.6 | 4.4 | 2.2 | 1.7 |
| 77.5° | 226.2 | 89.7 | 10.5 | 7.2 | 4.4 | 6.6 | 11.0 | 13.8 | 2.8 | 1.1 | 0.0 |
| 80° | 55.0 | 22.0 | 6.6 | 4.4 | 2.8 | 5.0 | 8.3 | 7.7 | 0.6 | 0.0 | 0.0 |
| 82.5° | 18.2 | 7.7 | 2.8 | 2.2 | 0.6 | 1.7 | 3.9 | 2.2 | 0.0 | 0.0 | 0.0 |
| 85° | 7.7 | 4.4 | 1.1 | 0.6 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 1.7 | 0.0 | 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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