

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: P385498

Luminaire Tested: **GWC-SA1A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1A-735-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3324.5 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

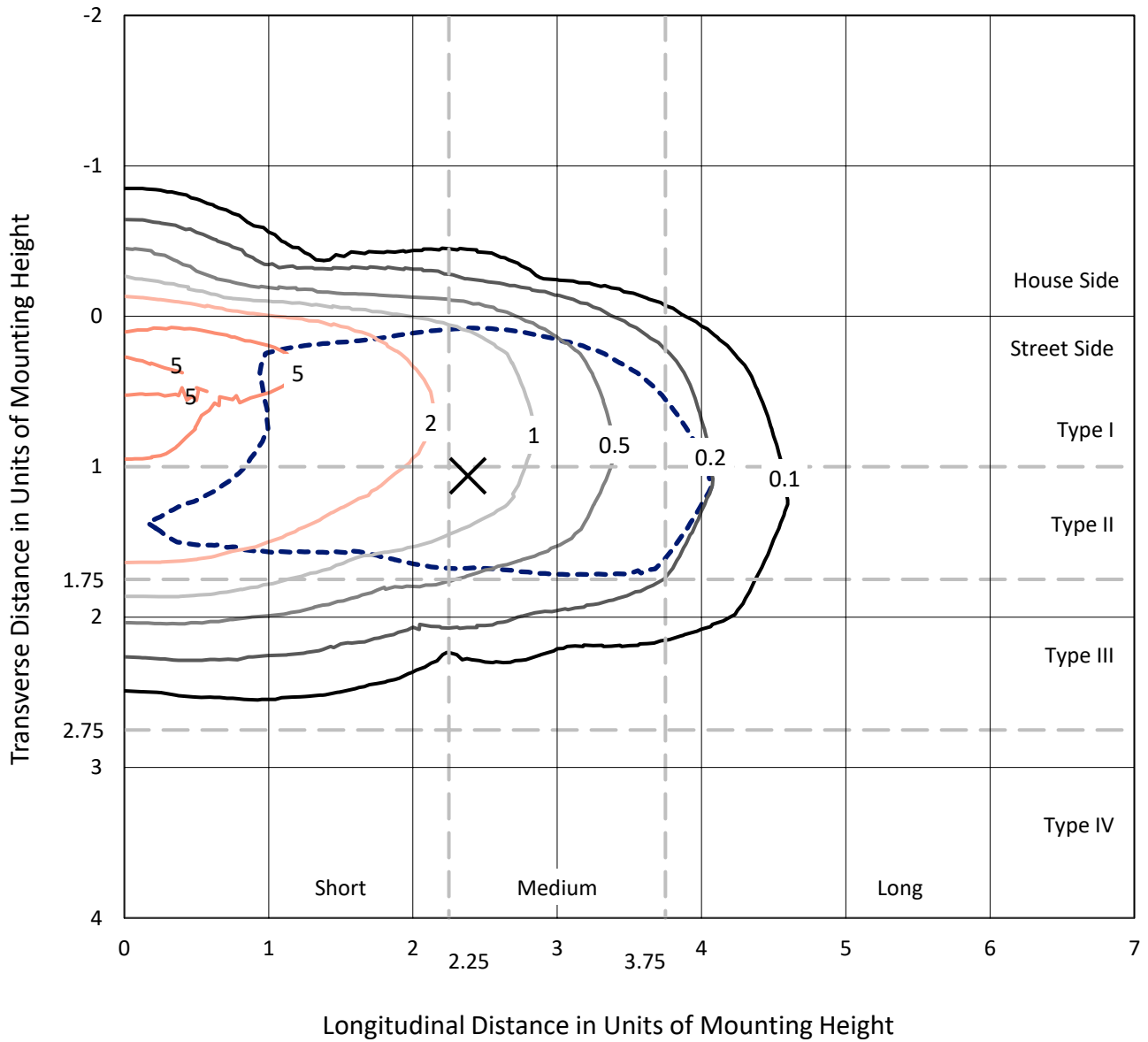
Input Watts (W): 34
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

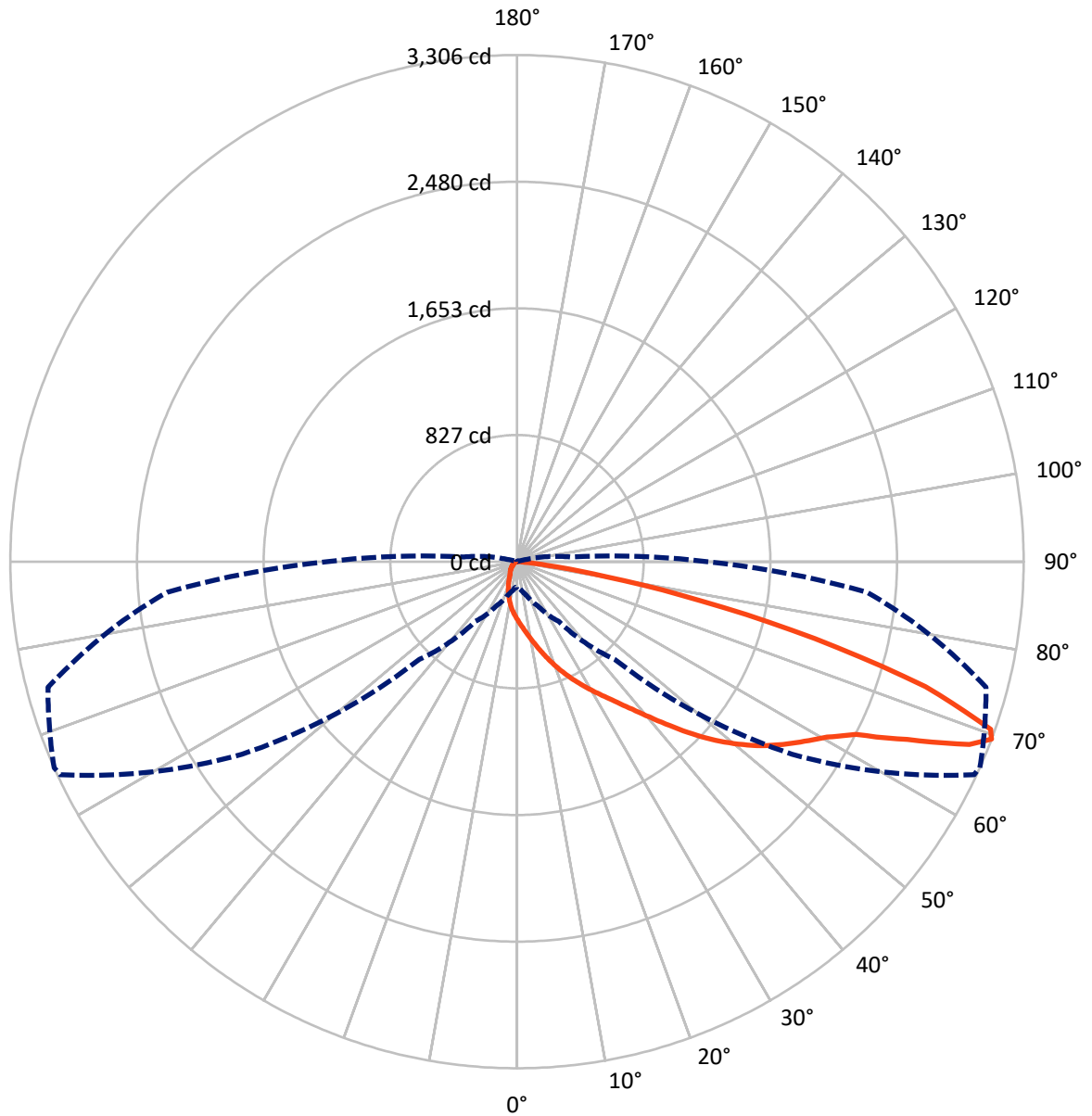
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 199.4 | 0.0 | 199.4 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 3125.1 | 0.0 | 3125.1 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 3324.5 | 0.0 | 3324.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.6 | 1.1 |
| 10°-20° | 108.8 | 3.3 |
| 20°-30° | 189.5 | 5.7 |
| 30°-40° | 332.5 | 10.0 |
| 40°-50° | 556.6 | 16.7 |
| 50°-60° | 818.2 | 24.6 |
| 60°-70° | 840.1 | 25.3 |
| 70°-80° | 414.7 | 12.5 |
| 80°-90° | 27.4 | 0.8 |
| 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° | 3324.5 | 100.0 |
| 0°-180° | 3324.5 | 100.0 |

Coefficient of Utilization



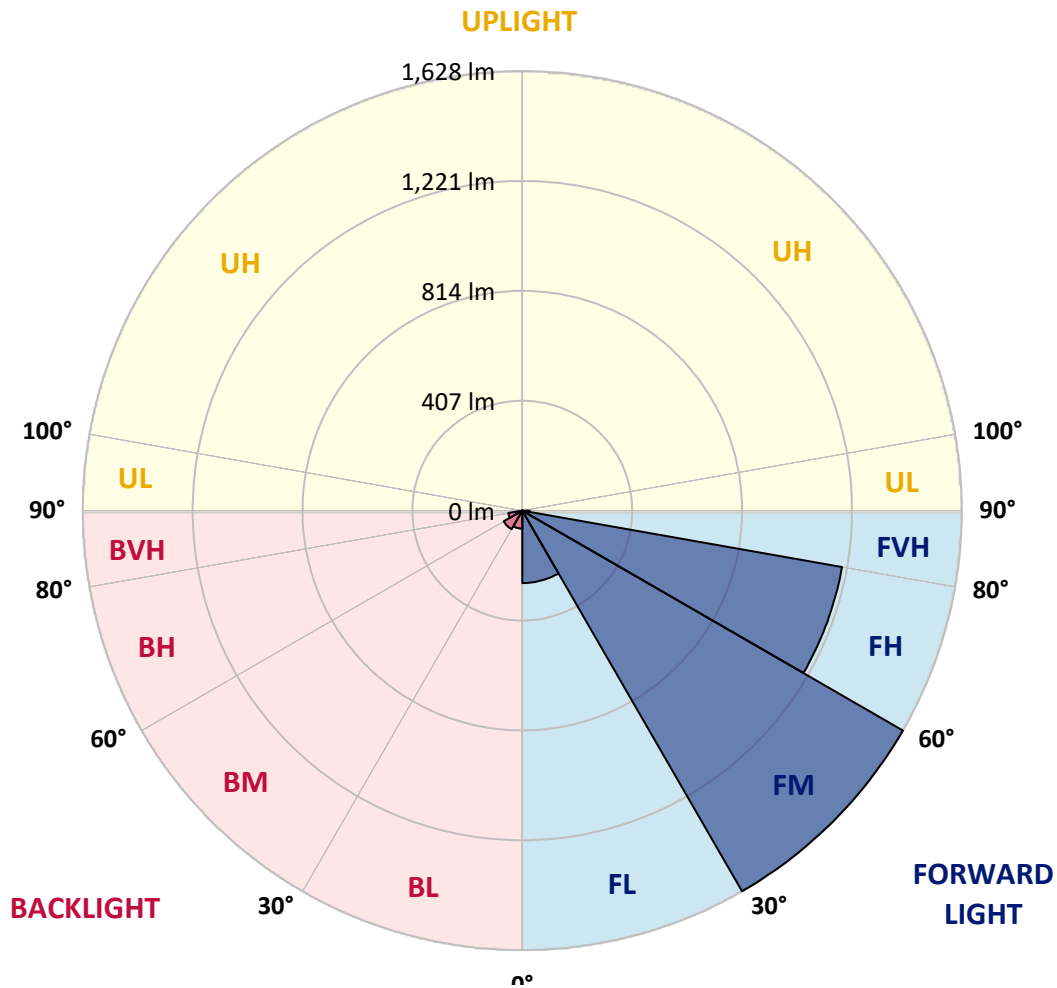
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 268.3 | 8.1 | | | |
| FM (30°-60°) | 1627.8 | 49.0 | | | |
| FH (60°-80°) | 1202.2 | 36.2 | | | G1/1800 |
| FVH (80°-90°) | 26.8 | 0.8 | | | G1/100 |
| BL (0°-30°) | 66.7 | 2.0 | B0/110 | | |
| BM (30°-60°) | 79.5 | 2.4 | B0/220 | | |
| BH (60°-80°) | 52.6 | 1.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 |
| 2.5° | 445.3 | 443.4 | 442.6 | 439.2 | 433.2 | 428.6 | 419.7 | 409.5 | 407.5 | 397.6 | 385.4 |
| 5° | 503.0 | 501.5 | 500.4 | 495.5 | 489.3 | 477.8 | 461.7 | 442.6 | 439.0 | 420.0 | 395.7 |
| 7.5° | 543.3 | 546.2 | 546.2 | 543.1 | 535.3 | 526.6 | 506.9 | 480.8 | 476.3 | 447.2 | 409.5 |
| 10° | 566.9 | 570.4 | 573.0 | 575.8 | 574.6 | 571.2 | 552.6 | 523.1 | 517.6 | 479.1 | 425.4 |
| 12.5° | 569.1 | 572.6 | 580.2 | 591.3 | 602.2 | 610.1 | 598.5 | 570.0 | 563.7 | 516.0 | 444.3 |
| 15° | 556.8 | 560.4 | 572.1 | 593.9 | 620.3 | 643.3 | 647.1 | 622.0 | 615.5 | 560.1 | 468.0 |
| 17.5° | 535.3 | 537.7 | 554.4 | 584.6 | 625.9 | 668.3 | 691.1 | 677.8 | 671.8 | 610.4 | 494.4 |
| 20° | 519.4 | 521.1 | 535.7 | 568.1 | 622.4 | 683.9 | 732.8 | 737.0 | 730.7 | 664.4 | 523.0 |
| 22.5° | 546.6 | 549.8 | 550.3 | 565.6 | 613.0 | 691.6 | 769.5 | 795.2 | 790.5 | 721.8 | 551.0 |
| 25° | 621.3 | 625.0 | 613.0 | 603.5 | 621.0 | 695.1 | 800.9 | 854.9 | 851.1 | 783.5 | 579.3 |
| 27.5° | 720.0 | 723.8 | 708.4 | 680.1 | 663.2 | 708.2 | 828.8 | 915.5 | 915.3 | 848.9 | 609.9 |
| 30° | 817.0 | 820.7 | 805.0 | 776.7 | 737.9 | 745.3 | 853.0 | 979.0 | 980.0 | 916.3 | 642.2 |
| 32.5° | 918.7 | 923.4 | 907.2 | 870.8 | 830.2 | 809.4 | 887.0 | 1042.8 | 1048.2 | 994.4 | 678.7 |
| 35° | 1034.3 | 1034.9 | 1012.0 | 974.0 | 927.2 | 895.1 | 941.5 | 1114.3 | 1127.1 | 1091.3 | 724.9 |
| 37.5° | 1147.7 | 1152.3 | 1133.5 | 1073.4 | 1030.5 | 994.2 | 1022.4 | 1203.7 | 1221.9 | 1209.6 | 785.4 |
| 40° | 1231.6 | 1241.3 | 1238.6 | 1173.9 | 1133.1 | 1107.3 | 1123.0 | 1310.0 | 1333.0 | 1347.3 | 861.7 |
| 42.5° | 1284.4 | 1291.7 | 1304.0 | 1265.0 | 1228.1 | 1232.3 | 1241.8 | 1433.8 | 1462.2 | 1504.2 | 949.4 |
| 45° | 1344.8 | 1348.3 | 1358.6 | 1341.4 | 1316.5 | 1359.4 | 1367.8 | 1573.2 | 1603.1 | 1673.0 | 1046.6 |
| 47.5° | 1418.8 | 1427.0 | 1429.9 | 1414.1 | 1402.7 | 1471.8 | 1489.2 | 1700.0 | 1741.8 | 1853.8 | 1149.5 |
| 50° | 1512.9 | 1515.1 | 1520.0 | 1509.7 | 1498.3 | 1568.5 | 1598.2 | 1833.1 | 1871.2 | 2035.2 | 1251.1 |
| 52.5° | 1605.0 | 1612.8 | 1629.9 | 1623.5 | 1618.9 | 1650.7 | 1695.2 | 1953.1 | 1995.6 | 2186.5 | 1352.4 |
| 55° | 1631.4 | 1638.3 | 1697.2 | 1737.4 | 1774.7 | 1752.2 | 1788.1 | 2060.7 | 2106.6 | 2321.7 | 1450.0 |
| 57.5° | 1525.5 | 1539.3 | 1641.3 | 1746.1 | 1900.7 | 1909.7 | 1915.7 | 2171.0 | 2212.3 | 2425.2 | 1551.6 |
| 60° | 1257.8 | 1260.4 | 1427.8 | 1607.6 | 1879.8 | 2047.2 | 2102.0 | 2289.6 | 2324.2 | 2521.7 | 1673.2 |
| 62.5° | 800.0 | 827.2 | 1010.9 | 1264.8 | 1659.4 | 2027.3 | 2327.3 | 2469.0 | 2481.6 | 2637.4 | 1847.5 |
| 65° | 381.0 | 398.7 | 531.0 | 781.5 | 1202.0 | 1772.6 | 2482.9 | 2793.5 | 2799.2 | 2866.9 | 2080.4 |
| 67.5° | 211.0 | 219.4 | 282.5 | 420.7 | 702.7 | 1253.6 | 2420.1 | 3177.9 | 3183.2 | 3101.2 | 2284.7 |
| 69° | 165.1 | 172.3 | 221.9 | 317.0 | 476.4 | 901.0 | 2190.0 | 3290.4 | 3306.4 | 3168.4 | 2292.0 |
| 70° | 140.1 | 147.2 | 191.1 | 267.8 | 383.1 | 696.2 | 1949.3 | 3262.5 | 3279.3 | 3162.1 | 2237.8 |
| 72.5° | 85.8 | 89.8 | 127.3 | 188.5 | 256.7 | 350.2 | 1202.1 | 2759.1 | 2787.7 | 2900.6 | 1923.3 |
| 75° | 57.8 | 60.0 | 79.6 | 130.1 | 183.7 | 180.4 | 624.5 | 1944.7 | 2006.6 | 2256.3 | 1420.6 |
| 77.5° | 41.3 | 43.4 | 53.4 | 84.2 | 128.7 | 119.0 | 282.9 | 1208.6 | 1221.9 | 1353.3 | 774.7 |
| 80° | 23.5 | 25.5 | 37.8 | 50.1 | 87.4 | 79.5 | 112.4 | 577.3 | 583.9 | 580.3 | 258.6 |
| 82.5° | 12.3 | 13.9 | 20.7 | 33.0 | 56.1 | 51.9 | 46.8 | 193.2 | 194.3 | 161.6 | 56.6 |
| 85° | 2.3 | 2.8 | 10.2 | 22.5 | 28.9 | 22.5 | 19.1 | 45.3 | 46.3 | 40.9 | 14.1 |
| 87.5° | 0.0 | 0.2 | 4.1 | 5.1 | 5.7 | 5.8 | 6.2 | 8.8 | 9.5 | 12.8 | 3.8 |
| 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° | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 | 378.3 |
| 2.5° | 380.1 | 374.3 | 363.5 | 350.9 | 341.1 | 331.4 | 323.9 | 316.0 | 313.1 | 311.7 | 311.5 |
| 5° | 383.8 | 371.9 | 348.8 | 325.1 | 305.7 | 287.4 | 274.3 | 261.8 | 256.0 | 253.3 | 252.1 |
| 7.5° | 390.2 | 370.9 | 333.8 | 297.7 | 269.7 | 246.8 | 228.6 | 215.0 | 208.3 | 205.4 | 204.3 |
| 10° | 397.6 | 369.7 | 316.3 | 268.6 | 232.9 | 209.2 | 191.3 | 177.8 | 170.4 | 167.2 | 165.6 |
| 12.5° | 406.3 | 367.5 | 296.1 | 239.3 | 201.5 | 177.8 | 156.0 | 139.4 | 130.9 | 127.3 | 125.5 |
| 15° | 417.0 | 365.2 | 274.9 | 211.6 | 173.9 | 144.9 | 121.1 | 109.9 | 108.1 | 107.6 | 107.7 |
| 17.5° | 427.6 | 361.8 | 251.9 | 184.3 | 144.8 | 113.2 | 101.1 | 100.4 | 100.7 | 100.7 | 100.7 |
| 20° | 437.1 | 353.9 | 226.8 | 160.9 | 117.1 | 95.5 | 93.0 | 91.9 | 91.1 | 90.5 | 89.7 |
| 22.5° | 444.5 | 343.3 | 202.6 | 137.7 | 95.7 | 87.5 | 83.5 | 80.0 | 77.2 | 75.3 | 74.4 |
| 25° | 449.6 | 329.3 | 180.5 | 115.5 | 86.0 | 79.6 | 72.5 | 66.6 | 62.2 | 59.6 | 58.4 |
| 27.5° | 453.4 | 314.0 | 160.7 | 96.7 | 79.5 | 70.5 | 61.2 | 54.2 | 49.6 | 47.3 | 46.3 |
| 30° | 456.1 | 296.8 | 143.4 | 84.9 | 72.1 | 60.8 | 50.8 | 44.1 | 40.8 | 39.5 | 38.9 |
| 32.5° | 458.5 | 277.8 | 126.9 | 79.5 | 65.1 | 51.9 | 42.6 | 37.4 | 35.4 | 33.8 | 33.3 |
| 35° | 464.9 | 260.0 | 111.3 | 73.6 | 58.0 | 44.3 | 36.6 | 32.9 | 30.8 | 29.9 | 29.5 |
| 37.5° | 479.8 | 247.0 | 96.3 | 67.5 | 50.8 | 38.3 | 32.0 | 29.4 | 27.4 | 26.5 | 26.2 |
| 40° | 504.1 | 240.3 | 83.7 | 61.2 | 43.9 | 33.8 | 29.0 | 26.5 | 24.5 | 23.0 | 22.7 |
| 42.5° | 539.6 | 241.2 | 74.9 | 54.7 | 38.3 | 30.2 | 26.2 | 23.2 | 21.0 | 19.7 | 19.4 |
| 45° | 582.7 | 248.2 | 68.7 | 48.3 | 33.8 | 27.3 | 23.0 | 19.9 | 17.8 | 16.7 | 16.4 |
| 47.5° | 629.4 | 259.5 | 63.6 | 42.6 | 30.2 | 24.6 | 19.9 | 16.5 | 14.8 | 13.9 | 13.7 |
| 50° | 678.7 | 270.4 | 58.4 | 37.1 | 27.0 | 22.0 | 16.7 | 13.7 | 12.3 | 11.6 | 11.2 |
| 52.5° | 728.6 | 282.9 | 53.7 | 32.0 | 24.3 | 18.8 | 13.9 | 11.2 | 10.1 | 9.5 | 9.1 |
| 55° | 782.2 | 292.4 | 49.1 | 28.1 | 21.6 | 16.0 | 11.6 | 9.3 | 8.4 | 7.6 | 7.4 |
| 57.5° | 845.5 | 307.1 | 44.3 | 24.3 | 18.5 | 13.2 | 9.5 | 7.4 | 6.7 | 5.8 | 5.7 |
| 60° | 930.7 | 324.4 | 39.4 | 21.5 | 15.1 | 10.9 | 7.7 | 6.0 | 5.1 | 4.4 | 4.2 |
| 62.5° | 1043.1 | 343.4 | 33.0 | 18.8 | 12.3 | 8.8 | 6.2 | 4.7 | 3.7 | 2.8 | 2.8 |
| 65° | 1185.7 | 374.5 | 27.0 | 15.8 | 10.1 | 7.2 | 4.7 | 3.5 | 2.1 | 1.2 | 1.2 |
| 67.5° | 1268.9 | 379.9 | 21.8 | 13.0 | 8.2 | 6.2 | 3.9 | 2.3 | 0.7 | 0.2 | 0.0 |
| 69° | 1242.3 | 348.8 | 18.5 | 11.1 | 7.1 | 5.8 | 3.7 | 1.7 | 0.3 | 0.0 | 0.0 |
| 70° | 1192.0 | 318.9 | 16.3 | 9.8 | 6.5 | 5.5 | 3.5 | 1.2 | 0.3 | 0.0 | 0.0 |
| 72.5° | 985.0 | 227.1 | 12.3 | 7.2 | 4.7 | 4.9 | 3.2 | 0.8 | 0.3 | 0.0 | 0.0 |
| 75° | 717.5 | 138.0 | 8.8 | 5.1 | 3.0 | 3.7 | 2.3 | 0.3 | 0.2 | 0.0 | 0.0 |
| 77.5° | 399.1 | 65.1 | 5.5 | 2.8 | 1.9 | 2.3 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 129.6 | 17.7 | 2.5 | 1.6 | 1.1 | 1.2 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 24.0 | 5.1 | 1.4 | 0.8 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 5.2 | 2.1 | 0.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 0.7 | 0.2 | 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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