

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: P385422

Luminaire Tested: **GWC-SA1A-722-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385422
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-SA1A-722-U-T4FT-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2599 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

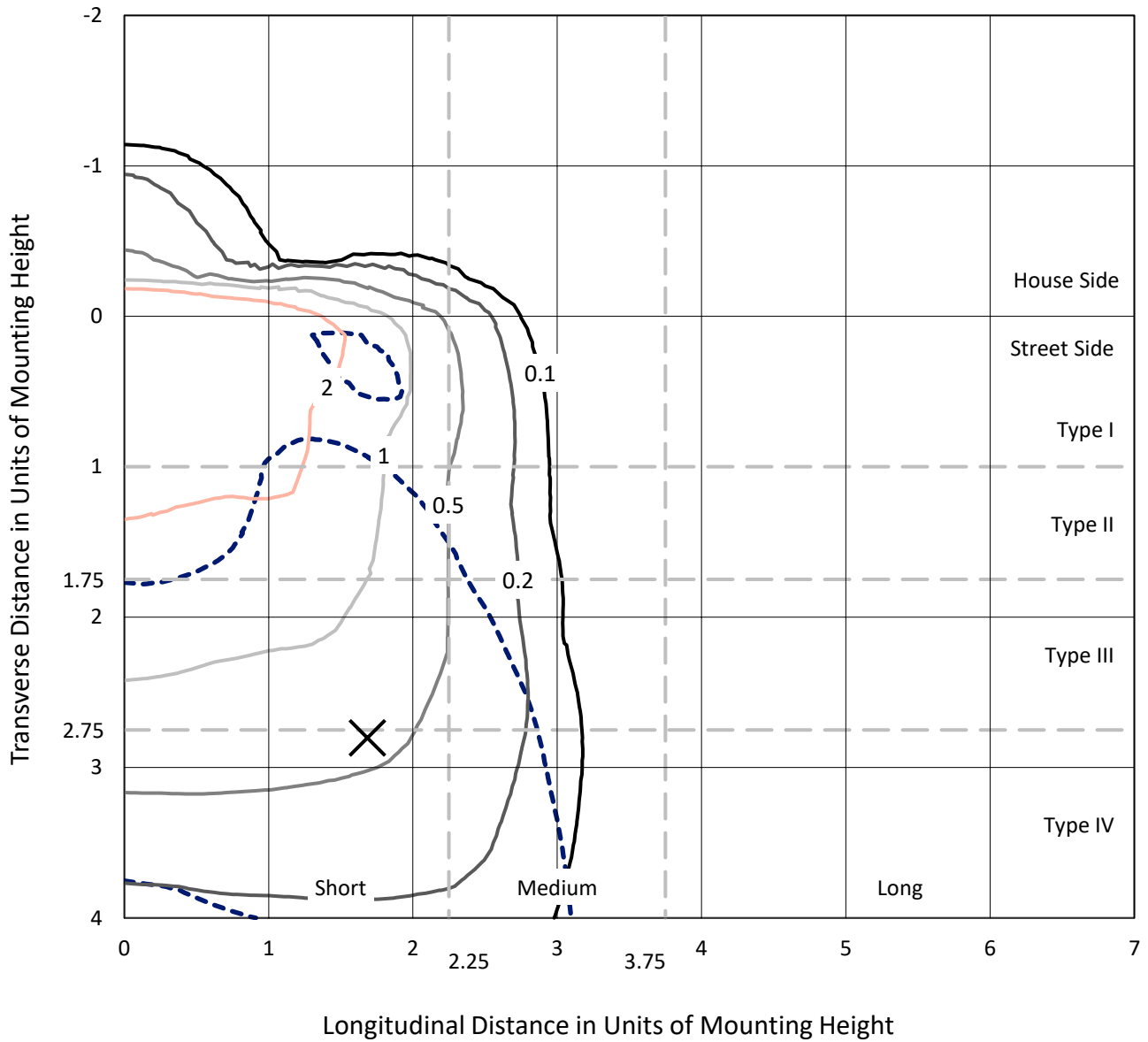
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

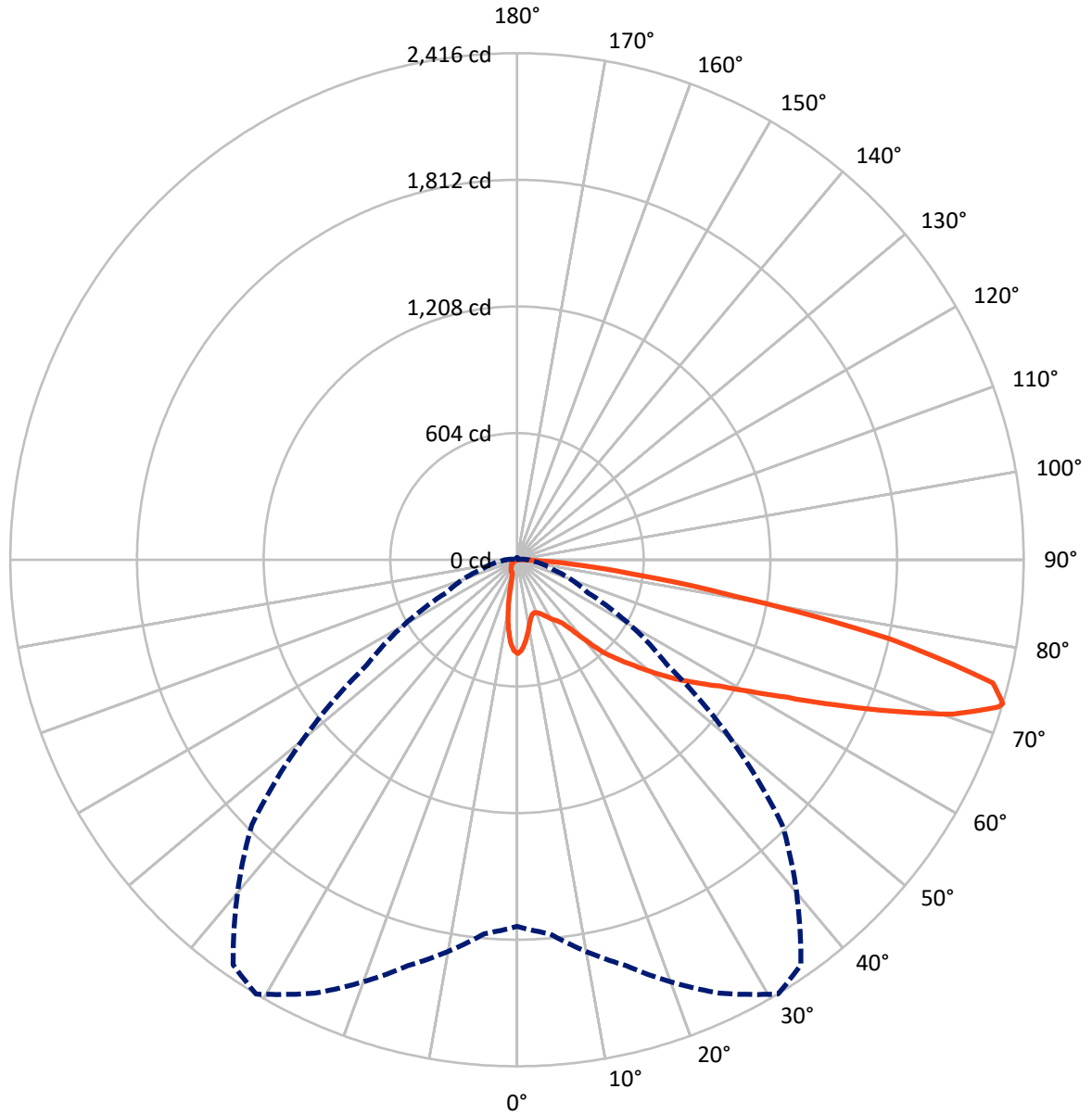
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 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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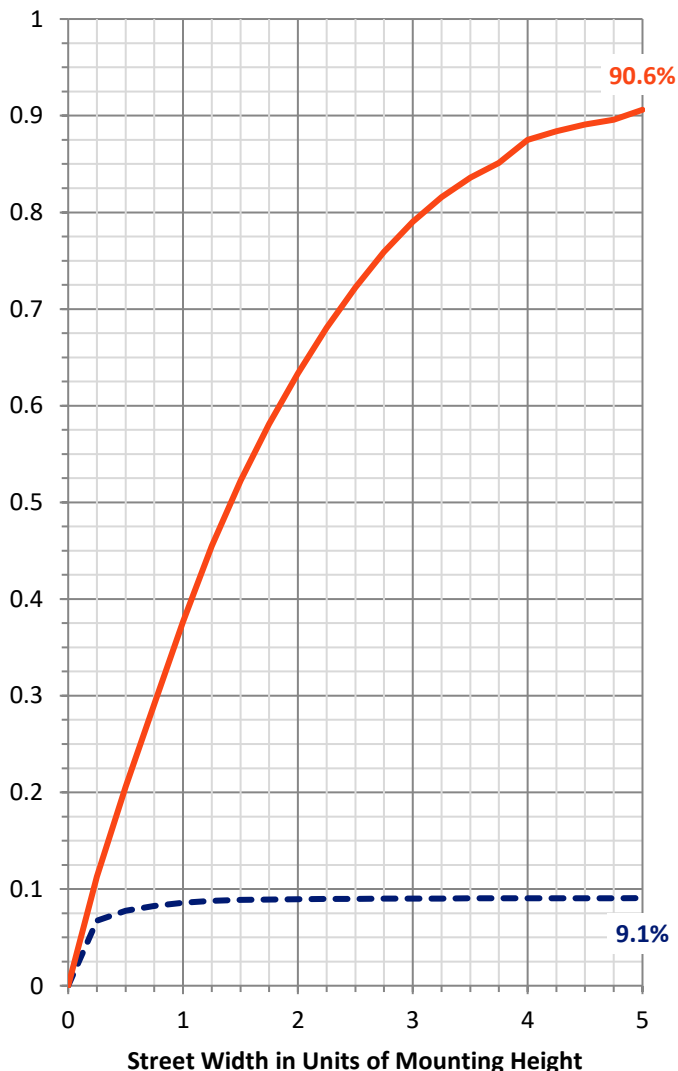
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 236.9 | 0.0 | 236.9 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 2362.1 | 0.0 | 2362.1 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 2599.0 | 0.0 | 2599.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.1 | 1.4 |
| 10°-20° | 80.5 | 3.1 |
| 20°-30° | 120.6 | 4.6 |
| 30°-40° | 191.9 | 7.4 |
| 40°-50° | 342.7 | 13.2 |
| 50°-60° | 531.7 | 20.5 |
| 60°-70° | 706.9 | 27.2 |
| 70°-80° | 531.7 | 20.5 |
| 80°-90° | 55.9 | 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° | 2599.0 | 100.0 |
| 0°-180° | 2599.0 | 100.0 |

Coefficient of Utilization



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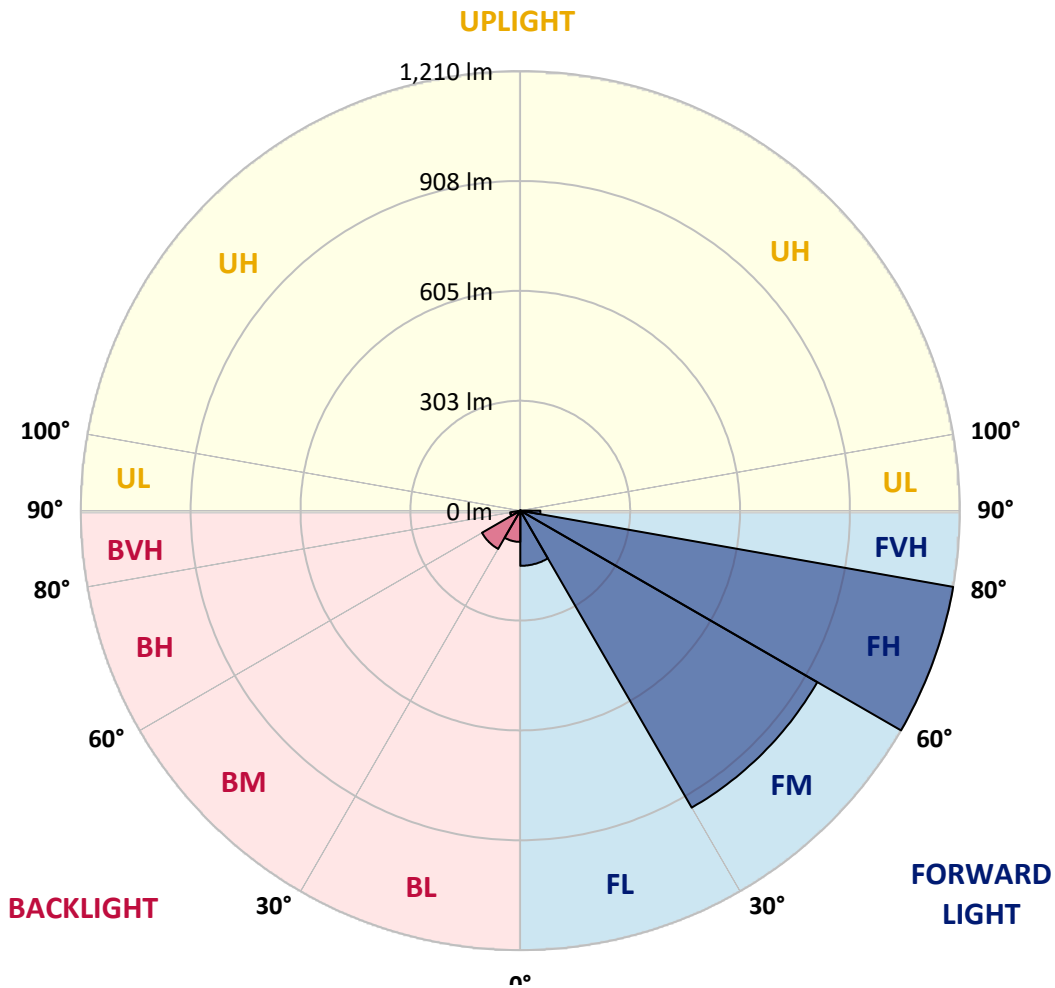
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 152.0 | 5.9 | | | |
| FM (30°-60°) | 944.4 | 36.3 | | | |
| FH (60°-80°) | 1210.3 | 46.6 | | | G1/1800 |
| FVH (80°-90°) | 55.4 | 2.1 | | | G1/100 |
| BL (0°-30°) | 86.1 | 3.3 | B0/110 | | |
| BM (30°-60°) | 121.9 | 4.7 | B0/220 | | |
| BH (60°-80°) | 28.3 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 |
| 2.5° | 423.8 | 425.5 | 427.5 | 427.8 | 431.0 | 431.1 | 435.7 | 439.2 | 442.6 | 445.9 | 447.0 |
| 5° | 380.3 | 383.2 | 386.6 | 390.1 | 396.8 | 399.5 | 410.7 | 422.1 | 433.0 | 443.5 | 448.6 |
| 7.5° | 333.8 | 337.2 | 342.0 | 350.5 | 358.0 | 363.2 | 380.9 | 401.3 | 421.6 | 440.8 | 451.9 |
| 10° | 291.5 | 294.5 | 299.6 | 308.7 | 320.2 | 327.4 | 351.1 | 379.4 | 409.3 | 438.4 | 456.8 |
| 12.5° | 264.5 | 266.2 | 269.0 | 278.7 | 289.1 | 297.1 | 325.1 | 360.0 | 399.1 | 438.3 | 464.8 |
| 15° | 259.6 | 260.1 | 257.8 | 262.1 | 270.3 | 278.0 | 306.4 | 344.4 | 391.3 | 440.3 | 475.3 |
| 17.5° | 267.5 | 267.2 | 259.6 | 259.1 | 265.6 | 271.9 | 297.2 | 333.6 | 385.9 | 445.0 | 488.8 |
| 20° | 279.4 | 278.5 | 265.3 | 262.9 | 269.7 | 275.7 | 296.6 | 329.5 | 383.8 | 452.9 | 505.2 |
| 22.5° | 295.3 | 293.8 | 273.1 | 270.5 | 277.9 | 284.1 | 304.5 | 333.5 | 385.6 | 463.4 | 524.2 |
| 25° | 315.0 | 312.7 | 286.4 | 283.6 | 291.1 | 297.3 | 318.6 | 344.8 | 390.9 | 476.3 | 548.4 |
| 27.5° | 337.3 | 334.0 | 307.8 | 300.5 | 309.0 | 315.5 | 337.4 | 362.1 | 399.3 | 489.9 | 578.0 |
| 30° | 358.3 | 353.9 | 330.3 | 318.3 | 328.8 | 336.0 | 357.8 | 382.7 | 412.8 | 510.9 | 618.6 |
| 32.5° | 379.4 | 374.5 | 350.4 | 336.1 | 345.5 | 353.4 | 378.7 | 411.0 | 438.1 | 542.9 | 672.5 |
| 35° | 428.0 | 422.9 | 393.2 | 369.7 | 369.6 | 374.0 | 408.1 | 449.8 | 471.6 | 587.6 | 736.9 |
| 37.5° | 509.7 | 506.8 | 478.6 | 433.9 | 422.0 | 417.0 | 448.2 | 496.1 | 519.7 | 649.0 | 809.5 |
| 40° | 599.3 | 596.7 | 565.1 | 524.6 | 506.4 | 494.2 | 505.7 | 560.6 | 587.6 | 724.0 | 883.6 |
| 42.5° | 700.4 | 688.3 | 631.8 | 619.7 | 603.5 | 594.2 | 583.9 | 640.1 | 671.0 | 805.7 | 957.2 |
| 45° | 792.2 | 771.9 | 698.6 | 680.3 | 676.6 | 678.9 | 684.6 | 746.9 | 764.9 | 902.7 | 1030.4 |
| 47.5° | 846.9 | 830.9 | 774.7 | 757.1 | 756.1 | 771.2 | 814.5 | 867.6 | 858.3 | 987.3 | 1094.9 |
| 50° | 898.9 | 884.4 | 837.7 | 842.1 | 846.8 | 867.4 | 961.9 | 991.7 | 943.7 | 1064.0 | 1154.0 |
| 52.5° | 941.0 | 918.9 | 894.5 | 918.7 | 941.9 | 975.1 | 1114.0 | 1103.2 | 1004.2 | 1125.0 | 1204.6 |
| 55° | 965.3 | 955.2 | 967.1 | 991.5 | 1035.0 | 1088.9 | 1257.6 | 1195.9 | 1048.5 | 1180.7 | 1238.3 |
| 57.5° | 1054.3 | 1034.6 | 1058.1 | 1079.2 | 1136.0 | 1211.4 | 1380.5 | 1264.9 | 1080.4 | 1215.2 | 1246.1 |
| 60° | 1162.0 | 1146.1 | 1160.0 | 1195.1 | 1271.7 | 1360.3 | 1495.5 | 1321.3 | 1097.1 | 1237.3 | 1226.0 |
| 62.5° | 1333.5 | 1312.5 | 1303.8 | 1343.1 | 1444.6 | 1541.4 | 1582.7 | 1360.3 | 1093.4 | 1227.5 | 1157.1 |
| 65° | 1563.2 | 1541.4 | 1502.8 | 1538.4 | 1667.5 | 1735.7 | 1680.3 | 1368.6 | 1067.9 | 1148.3 | 982.8 |
| 67.5° | 1798.4 | 1782.7 | 1749.6 | 1809.6 | 1926.1 | 1948.1 | 1783.4 | 1348.5 | 986.0 | 931.1 | 694.4 |
| 70° | 1953.9 | 1947.1 | 1968.6 | 2101.4 | 2205.3 | 2198.9 | 1878.1 | 1240.5 | 768.5 | 572.6 | 343.5 |
| 72.5° | 1841.8 | 1874.1 | 2032.8 | 2273.6 | 2400.5 | 2348.6 | 1829.5 | 952.6 | 439.3 | 220.3 | 99.3 |
| 73° | 1749.0 | 1790.3 | 2004.0 | 2280.1 | 2415.9 | 2359.1 | 1788.7 | 874.4 | 374.4 | 173.9 | 75.3 |
| 75° | 1216.7 | 1267.5 | 1659.1 | 2123.5 | 2343.9 | 2247.6 | 1490.9 | 535.2 | 173.5 | 77.1 | 30.4 |
| 77.5° | 590.7 | 628.3 | 913.5 | 1534.3 | 1822.9 | 1756.1 | 928.2 | 199.4 | 78.3 | 48.2 | 14.0 |
| 80° | 220.5 | 245.2 | 396.5 | 780.9 | 1053.4 | 1081.0 | 408.2 | 75.4 | 52.1 | 38.8 | 7.1 |
| 82.5° | 57.7 | 64.4 | 146.3 | 348.2 | 539.9 | 565.1 | 128.7 | 38.0 | 38.2 | 31.9 | 4.3 |
| 85° | 18.4 | 21.1 | 45.7 | 156.3 | 254.4 | 223.3 | 33.6 | 18.4 | 27.7 | 23.8 | 2.4 |
| 87.5° | 2.3 | 2.9 | 14.5 | 36.8 | 56.1 | 31.2 | 5.2 | 5.5 | 11.8 | 13.2 | 1.4 |
| 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° | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 | 447.2 |
| 2.5° | 448.2 | 447.5 | 447.7 | 444.4 | 442.2 | 437.9 | 433.4 | 431.4 | 429.2 | 428.3 | 429.2 |
| 5° | 450.5 | 449.3 | 446.0 | 435.8 | 425.0 | 411.0 | 397.9 | 388.0 | 375.6 | 372.1 | 375.7 |
| 7.5° | 454.0 | 451.7 | 442.1 | 421.3 | 397.3 | 370.6 | 340.6 | 318.7 | 300.8 | 289.2 | 293.4 |
| 10° | 459.2 | 454.9 | 435.5 | 400.2 | 357.2 | 309.9 | 267.3 | 234.1 | 210.6 | 200.9 | 200.6 |
| 12.5° | 468.0 | 459.9 | 427.3 | 372.8 | 308.3 | 245.2 | 189.4 | 153.4 | 134.3 | 122.0 | 121.7 |
| 15° | 477.7 | 465.7 | 417.0 | 339.8 | 251.3 | 175.6 | 122.0 | 94.6 | 82.3 | 78.3 | 77.8 |
| 17.5° | 489.5 | 472.5 | 403.7 | 299.3 | 191.7 | 116.4 | 79.6 | 71.7 | 71.2 | 70.8 | 70.8 |
| 20° | 504.4 | 480.5 | 386.5 | 252.8 | 136.0 | 77.7 | 67.7 | 68.2 | 68.4 | 67.9 | 68.0 |
| 22.5° | 521.7 | 488.6 | 366.0 | 203.0 | 92.0 | 65.0 | 64.7 | 65.4 | 65.6 | 65.4 | 65.5 |
| 25° | 541.8 | 498.0 | 341.1 | 150.7 | 66.4 | 61.7 | 62.3 | 63.2 | 63.8 | 63.8 | 63.8 |
| 27.5° | 566.7 | 509.5 | 311.1 | 105.2 | 57.4 | 58.2 | 60.0 | 61.7 | 62.6 | 62.8 | 62.8 |
| 30° | 599.1 | 523.7 | 275.1 | 72.1 | 52.1 | 53.7 | 57.0 | 60.2 | 61.8 | 62.1 | 62.2 |
| 32.5° | 640.1 | 539.7 | 233.4 | 53.3 | 47.7 | 48.8 | 52.4 | 57.7 | 60.9 | 61.4 | 61.4 |
| 35° | 687.0 | 558.3 | 188.5 | 46.4 | 44.5 | 44.9 | 47.7 | 53.8 | 59.4 | 60.8 | 60.9 |
| 37.5° | 738.4 | 576.6 | 143.3 | 43.4 | 41.8 | 41.8 | 43.9 | 49.1 | 55.7 | 60.0 | 60.5 |
| 40° | 786.4 | 587.7 | 100.5 | 41.0 | 39.4 | 39.4 | 41.2 | 45.0 | 51.3 | 57.7 | 59.1 |
| 42.5° | 830.6 | 591.5 | 69.9 | 38.7 | 37.1 | 37.5 | 39.0 | 42.1 | 46.8 | 53.3 | 54.6 |
| 45° | 876.1 | 590.9 | 51.0 | 36.0 | 34.8 | 36.0 | 37.1 | 39.4 | 42.9 | 46.5 | 46.8 |
| 47.5° | 910.5 | 585.5 | 40.4 | 33.4 | 32.7 | 34.2 | 35.2 | 36.8 | 38.7 | 38.4 | 38.4 |
| 50° | 942.7 | 572.6 | 32.6 | 30.0 | 30.5 | 32.3 | 32.8 | 33.3 | 33.4 | 31.0 | 30.8 |
| 52.5° | 967.1 | 552.3 | 26.1 | 26.3 | 28.4 | 30.1 | 29.6 | 28.9 | 27.6 | 24.7 | 24.2 |
| 55° | 975.2 | 513.4 | 20.5 | 21.7 | 25.2 | 27.5 | 25.6 | 23.9 | 21.5 | 19.1 | 18.6 |
| 57.5° | 960.5 | 463.2 | 16.7 | 16.9 | 21.2 | 23.1 | 21.0 | 19.1 | 16.4 | 14.4 | 14.0 |
| 60° | 929.2 | 407.4 | 13.7 | 12.7 | 16.4 | 18.1 | 16.7 | 14.8 | 12.3 | 10.8 | 10.7 |
| 62.5° | 867.1 | 347.8 | 11.3 | 9.9 | 12.5 | 13.9 | 13.0 | 11.6 | 9.5 | 8.5 | 8.4 |
| 65° | 736.6 | 278.3 | 9.2 | 8.0 | 9.7 | 10.8 | 10.0 | 9.0 | 7.5 | 6.7 | 6.6 |
| 67.5° | 514.2 | 188.1 | 7.5 | 6.6 | 7.6 | 8.5 | 7.9 | 7.4 | 6.0 | 5.9 | 6.0 |
| 70° | 248.0 | 90.7 | 6.2 | 5.3 | 6.0 | 6.6 | 6.4 | 6.0 | 5.7 | 6.6 | 7.6 |
| 72.5° | 71.1 | 30.4 | 5.0 | 4.5 | 4.8 | 5.2 | 5.5 | 5.3 | 6.2 | 8.0 | 9.3 |
| 73° | 54.7 | 24.5 | 4.7 | 4.2 | 4.6 | 5.1 | 5.3 | 5.2 | 6.4 | 8.1 | 9.3 |
| 75° | 23.4 | 11.8 | 3.6 | 3.4 | 3.8 | 4.5 | 4.7 | 4.7 | 6.4 | 8.3 | 8.9 |
| 77.5° | 10.6 | 6.4 | 2.3 | 2.7 | 3.3 | 3.6 | 3.9 | 3.9 | 5.1 | 6.4 | 6.4 |
| 80° | 6.0 | 3.4 | 1.8 | 2.0 | 2.4 | 2.4 | 2.4 | 2.2 | 2.3 | 2.5 | 2.8 |
| 82.5° | 3.8 | 2.3 | 1.4 | 1.7 | 1.5 | 1.3 | 1.0 | 1.0 | 0.9 | 1.0 | 1.3 |
| 85° | 2.2 | 1.3 | 1.3 | 1.0 | 0.6 | 0.5 | 0.6 | 0.5 | 0.1 | 0.0 | 0.1 |
| 87.5° | 1.3 | 0.8 | 0.4 | 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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