

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: P385791

Luminaire Tested: **GWC-SA1B-827-U-5NQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385791  
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-SA1B-827-U-5NQ  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4628 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

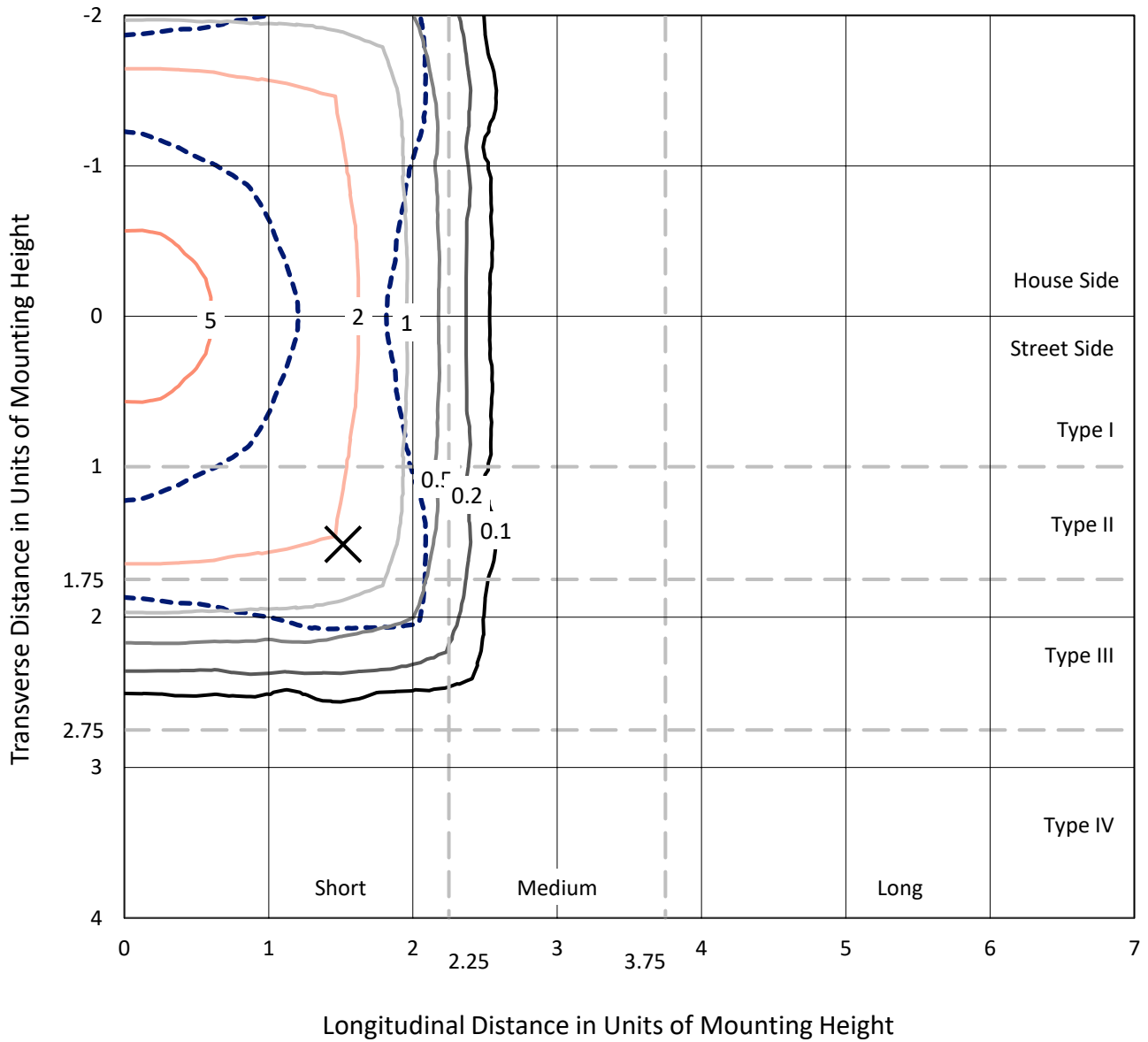
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

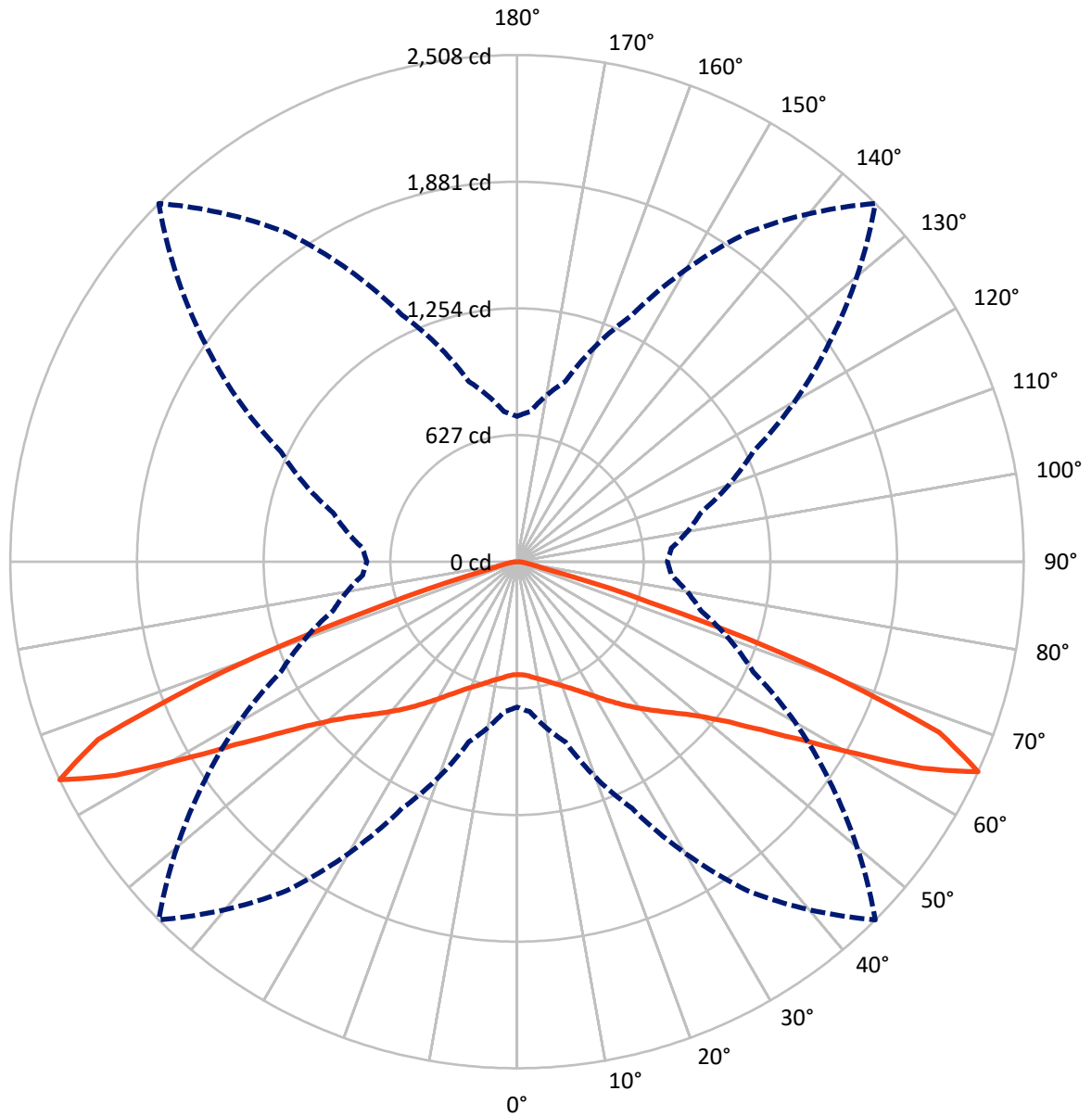
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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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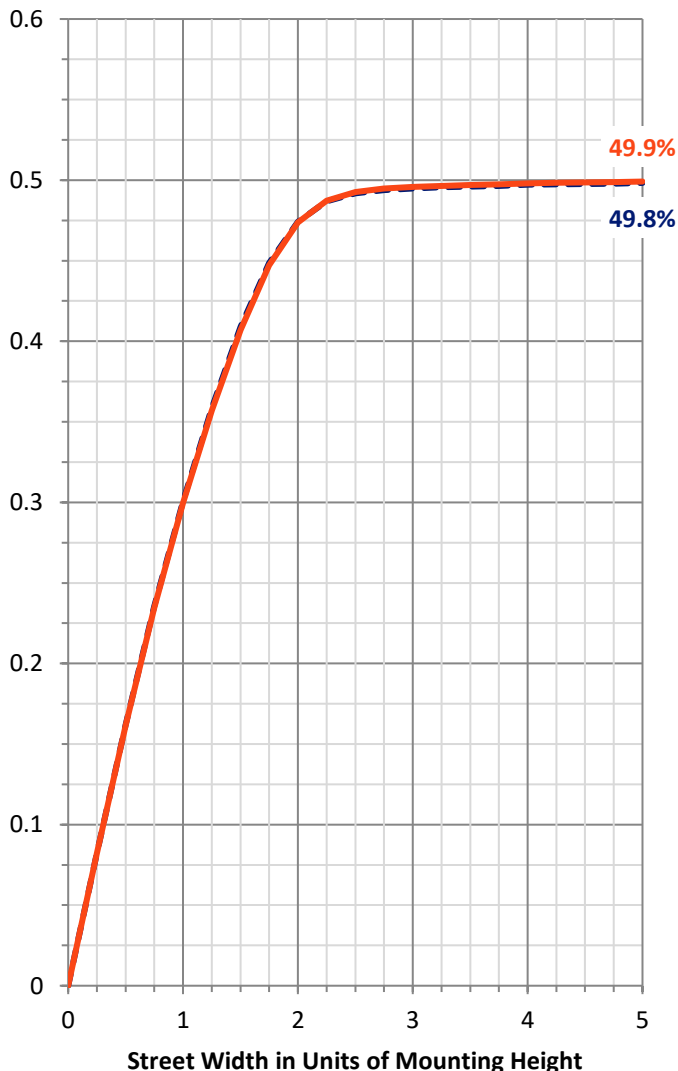
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2314.0   | 0.0    | 2314.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2314.0   | 0.0    | 2314.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4628.0   | 0.0    | 4628.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.8   | 1.2       |
| 10°-20°   | 176.3  | 3.8       |
| 20°-30°   | 330.7  | 7.1       |
| 30°-40°   | 546.9  | 11.8      |
| 40°-50°   | 847.1  | 18.3      |
| 50°-60°   | 1299.1 | 28.1      |
| 60°-70°   | 1212.2 | 26.2      |
| 70°-80°   | 141.1  | 3.0       |
| 80°-90°   | 19.8   | 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°    | 4628.0 | 100.0     |
| 0°-180°   | 4628.0 | 100.0     |

**Coefficient of Utilization**



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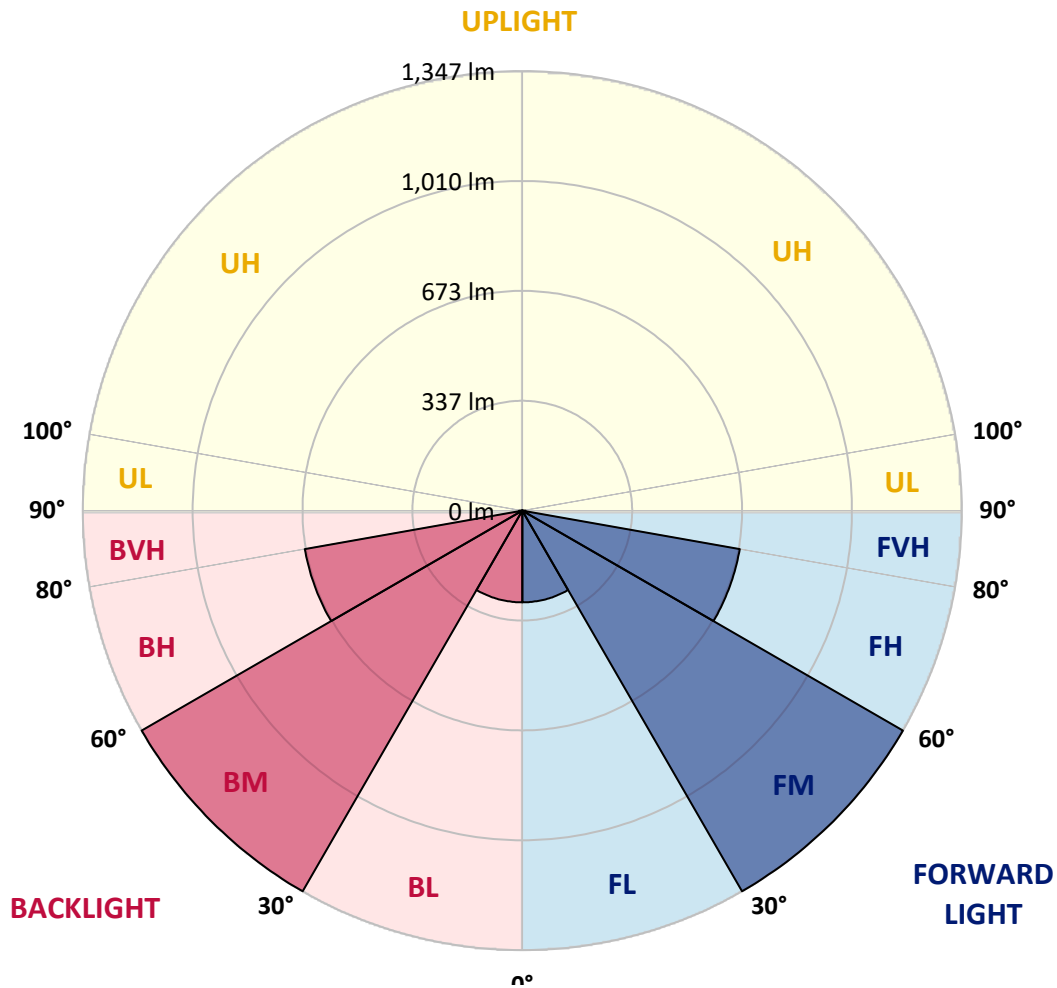
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 280.9  | 6.1       |                         |      |         |
| FM (30°-60°)   | 1346.5 | 29.1      |                         |      |         |
| FH (60°-80°)   | 676.7  | 14.6      |                         |      | G1/1800 |
| FVH (80°-90°)  | 9.9    | 0.2       |                         |      | G0/10   |
| BL (0°-30°)    | 280.9  | 6.1       | B1/500                  |      |         |
| BM (30°-60°)   | 1346.5 | 29.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 676.7  | 14.6      | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 9.9    | 0.2       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  | 558.9  |
| 2.5°  | 560.7  | 560.4  | 560.7  | 560.9  | 560.0  | 560.4  | 560.3  | 561.0  | 561.3  | 561.0  | 561.0  |
| 5°    | 567.2  | 566.7  | 567.3  | 568.1  | 566.9  | 567.2  | 566.7  | 567.6  | 568.0  | 567.3  | 567.8  |
| 7.5°  | 576.1  | 576.2  | 576.9  | 578.2  | 577.5  | 578.1  | 577.2  | 577.3  | 577.2  | 576.2  | 576.4  |
| 10°   | 585.8  | 585.9  | 587.0  | 588.8  | 589.2  | 589.2  | 588.5  | 588.1  | 587.5  | 586.8  | 587.0  |
| 12.5° | 597.4  | 598.2  | 599.0  | 601.3  | 601.3  | 602.5  | 602.2  | 601.0  | 599.9  | 599.0  | 599.0  |
| 15°   | 613.3  | 613.1  | 614.0  | 616.3  | 617.4  | 619.4  | 619.4  | 617.7  | 616.3  | 615.4  | 615.1  |
| 17.5° | 629.9  | 630.3  | 630.9  | 633.7  | 635.4  | 637.7  | 638.0  | 636.6  | 635.7  | 634.5  | 633.7  |
| 20°   | 649.2  | 650.0  | 652.4  | 653.5  | 655.1  | 657.2  | 658.0  | 657.7  | 656.7  | 656.1  | 656.3  |
| 22.5° | 671.8  | 673.8  | 675.3  | 676.9  | 678.7  | 680.3  | 681.0  | 682.1  | 681.2  | 680.7  | 680.4  |
| 25°   | 699.1  | 700.5  | 703.6  | 706.4  | 707.6  | 708.1  | 709.0  | 710.5  | 710.4  | 709.3  | 709.3  |
| 27.5° | 730.2  | 732.8  | 736.6  | 740.6  | 740.6  | 739.1  | 742.2  | 744.8  | 743.9  | 742.5  | 740.6  |
| 30°   | 767.8  | 770.3  | 774.7  | 780.3  | 777.5  | 776.4  | 780.6  | 785.3  | 784.0  | 781.6  | 781.3  |
| 32.5° | 808.4  | 810.7  | 816.5  | 822.5  | 819.0  | 817.4  | 821.9  | 828.8  | 826.4  | 821.7  | 819.0  |
| 35°   | 852.3  | 854.6  | 862.9  | 870.1  | 864.1  | 861.5  | 865.2  | 872.7  | 868.4  | 859.8  | 857.7  |
| 37.5° | 900.1  | 901.3  | 912.1  | 919.4  | 915.3  | 908.4  | 913.0  | 918.5  | 914.8  | 904.4  | 900.2  |
| 40°   | 949.7  | 954.2  | 966.6  | 975.2  | 968.0  | 957.1  | 964.8  | 972.4  | 966.9  | 953.6  | 946.5  |
| 42.5° | 1007.6 | 1011.0 | 1027.6 | 1035.3 | 1023.6 | 1008.2 | 1018.7 | 1029.1 | 1023.6 | 1010.7 | 1004.6 |
| 45°   | 1067.9 | 1073.1 | 1092.9 | 1100.6 | 1083.7 | 1064.2 | 1076.9 | 1095.2 | 1094.7 | 1076.1 | 1069.7 |
| 47.5° | 1133.4 | 1138.7 | 1162.3 | 1172.5 | 1154.2 | 1128.1 | 1146.0 | 1171.9 | 1170.0 | 1149.6 | 1144.4 |
| 50°   | 1209.2 | 1214.7 | 1244.2 | 1257.0 | 1239.9 | 1209.5 | 1236.5 | 1259.3 | 1255.9 | 1230.7 | 1231.2 |
| 52.5° | 1304.3 | 1304.0 | 1340.7 | 1362.8 | 1345.3 | 1318.4 | 1343.3 | 1365.4 | 1351.4 | 1316.6 | 1315.5 |
| 55°   | 1387.5 | 1392.6 | 1438.1 | 1480.0 | 1479.0 | 1468.7 | 1478.6 | 1479.6 | 1439.6 | 1393.2 | 1387.5 |
| 57.5° | 1442.2 | 1451.9 | 1516.0 | 1591.9 | 1648.7 | 1662.4 | 1643.0 | 1584.3 | 1490.8 | 1416.6 | 1407.5 |
| 60°   | 1408.6 | 1423.3 | 1524.0 | 1678.7 | 1846.1 | 1926.5 | 1817.2 | 1635.2 | 1451.0 | 1347.6 | 1335.3 |
| 62.5° | 1181.5 | 1206.4 | 1353.7 | 1636.7 | 2016.0 | 2250.9 | 1943.5 | 1553.6 | 1292.8 | 1150.3 | 1129.3 |
| 65°   | 719.6  | 745.9  | 923.4  | 1347.1 | 1988.5 | 2507.8 | 1885.9 | 1289.5 | 943.6  | 766.4  | 743.7  |
| 67.5° | 239.8  | 247.5  | 352.1  | 744.6  | 1562.8 | 2253.2 | 1565.4 | 772.0  | 410.6  | 272.2  | 264.2  |
| 70°   | 93.9   | 94.6   | 111.7  | 215.8  | 738.0  | 1547.6 | 814.4  | 219.7  | 116.8  | 92.3   | 94.3   |
| 72.5° | 69.0   | 69.3   | 74.0   | 90.2   | 192.3  | 681.8  | 199.3  | 90.6   | 72.1   | 64.7   | 64.7   |
| 75°   | 55.5   | 55.5   | 58.8   | 65.8   | 86.2   | 156.4  | 87.4   | 65.0   | 56.4   | 51.6   | 51.0   |
| 77.5° | 43.8   | 44.7   | 47.3   | 51.8   | 58.4   | 75.3   | 60.5   | 51.5   | 45.5   | 41.0   | 40.1   |
| 80°   | 32.6   | 33.5   | 37.8   | 39.9   | 41.9   | 52.2   | 44.7   | 40.2   | 35.9   | 30.7   | 29.8   |
| 82.5° | 21.4   | 22.3   | 27.7   | 28.9   | 28.4   | 34.1   | 30.1   | 29.6   | 26.4   | 19.8   | 18.9   |
| 85°   | 14.0   | 14.3   | 18.4   | 19.2   | 17.7   | 15.5   | 19.2   | 20.3   | 18.4   | 12.9   | 12.4   |
| 87.5° | 6.6    | 6.6    | 9.4    | 8.8    | 8.0    | 6.5    | 8.8    | 10.3   | 10.4   | 6.3    | 6.1    |
| 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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