

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: P386576

Luminaire Tested: **GWC-SA2B-730-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2B-730-U-5WQ  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11439 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

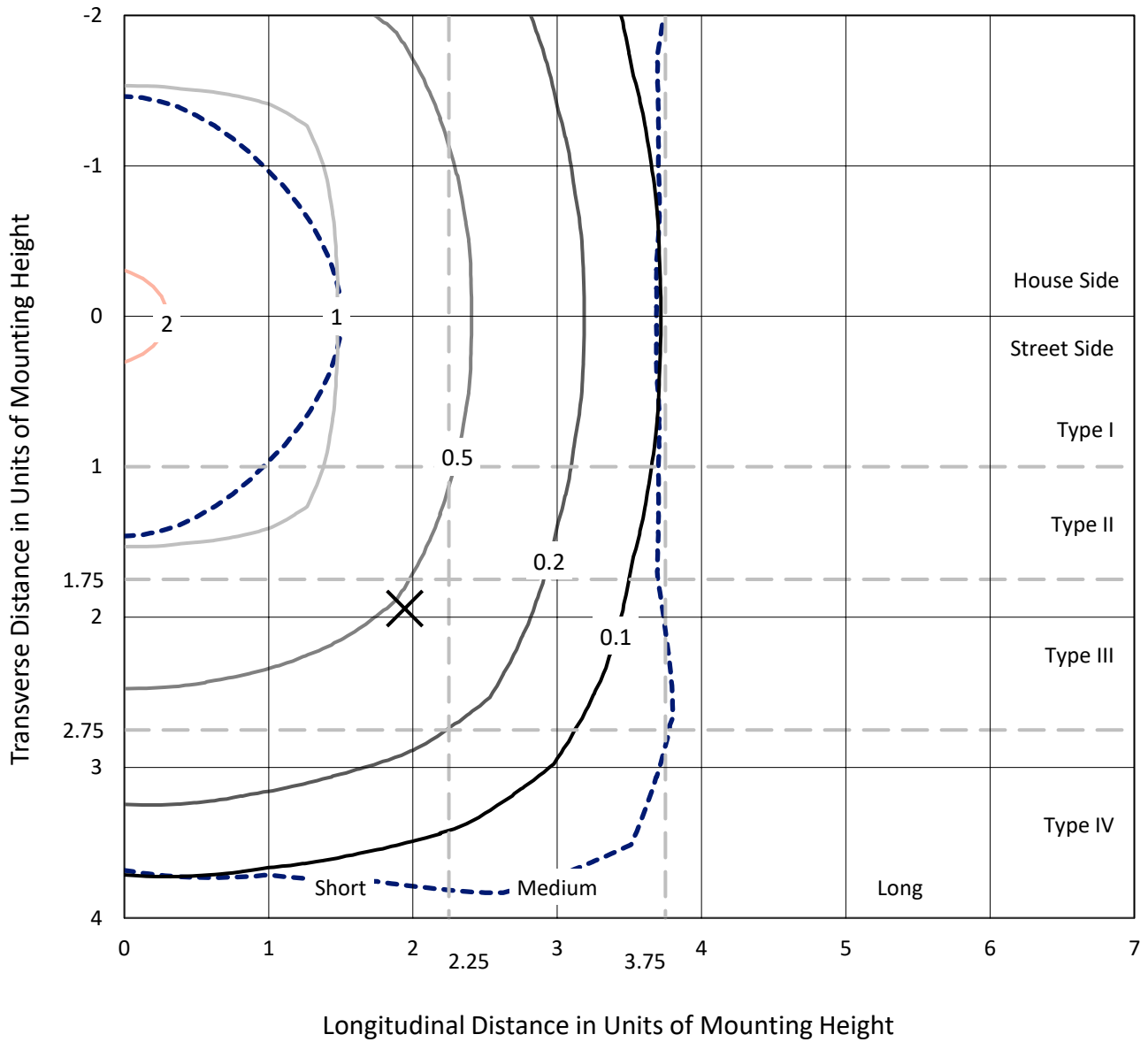
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

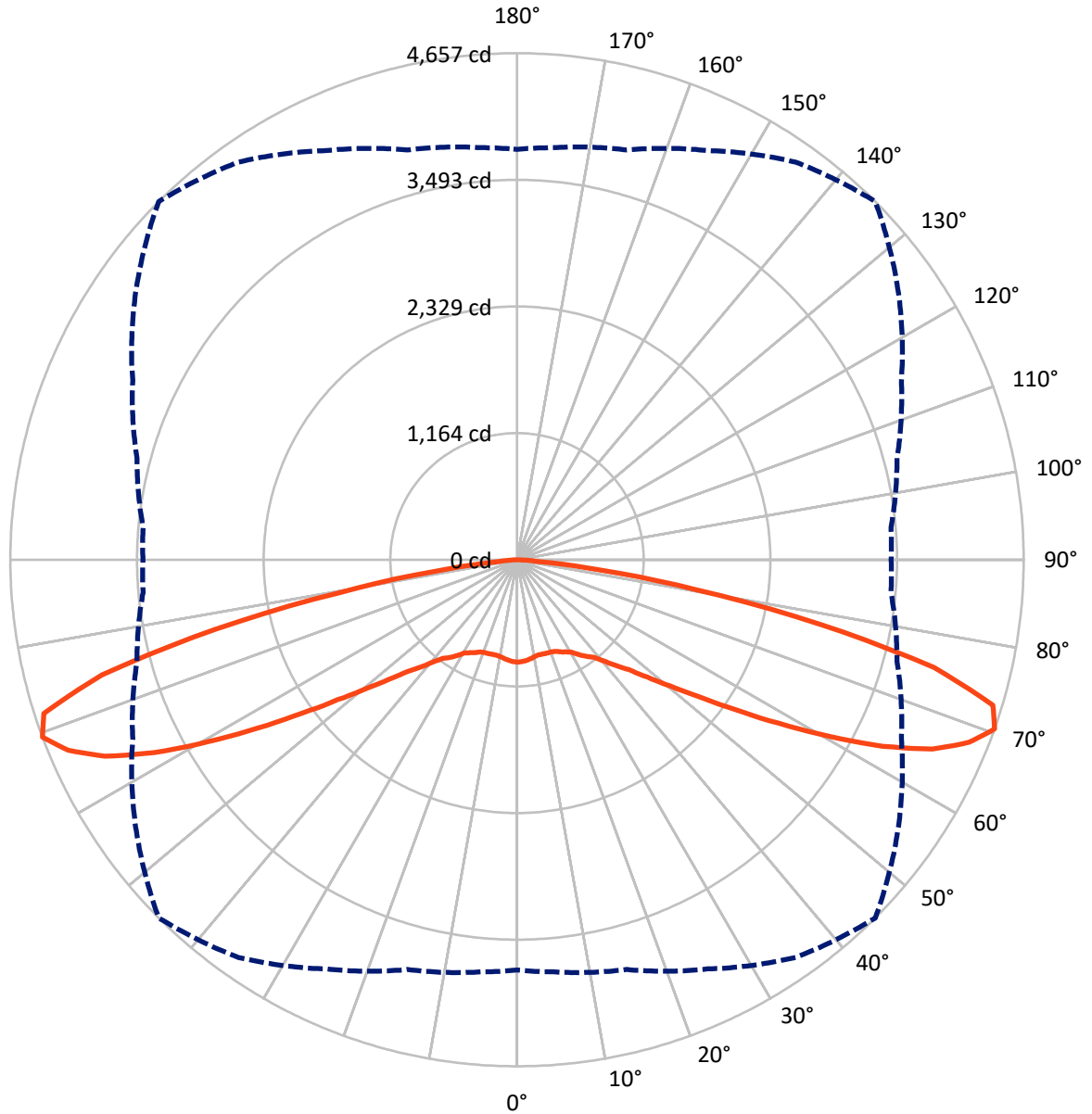
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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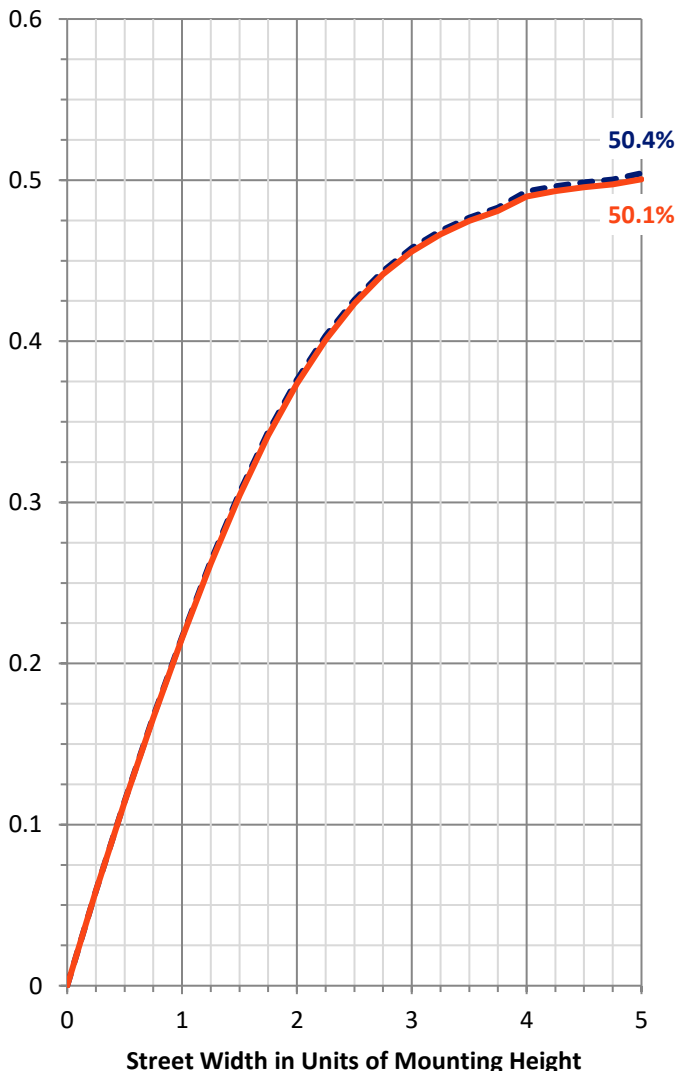
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5719.5   | 0.0    | 5719.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5719.5   | 0.0    | 5719.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11439.0  | 0.0    | 11439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 87.9    | 0.8       |
| 10°-20°   | 256.7   | 2.2       |
| 20°-30°   | 437.6   | 3.8       |
| 30°-40°   | 683.8   | 6.0       |
| 40°-50°   | 1158.8  | 10.1      |
| 50°-60°   | 2113.2  | 18.5      |
| 60°-70°   | 3638.0  | 31.8      |
| 70°-80°   | 2851.6  | 24.9      |
| 80°-90°   | 211.4   | 1.8       |
| 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°    | 11439.0 | 100.0     |
| 0°-180°   | 11439.0 | 100.0     |



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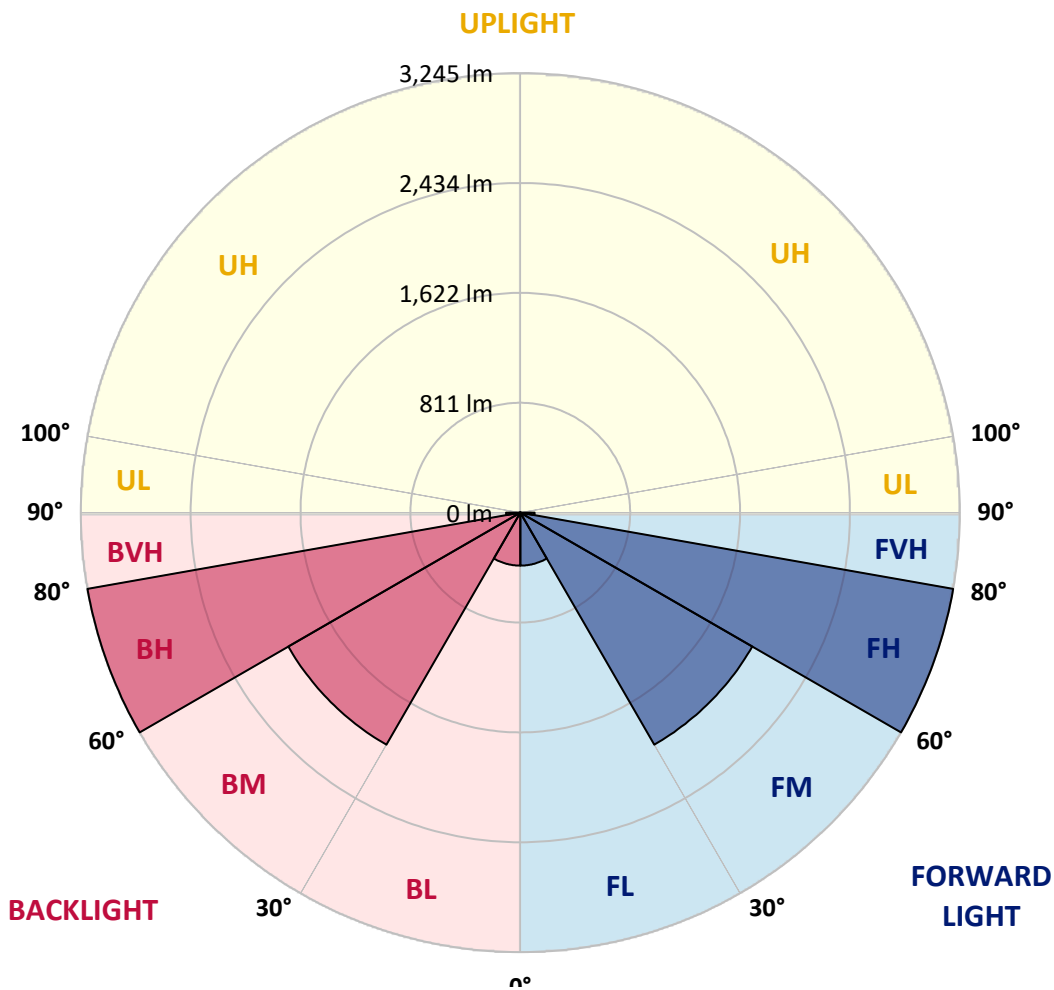
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 391.1  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1977.9 | 17.3      |                         |      |         |
| FH (60°-80°)   | 3244.8 | 28.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 105.7  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 391.1  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1977.9 | 17.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 3244.8 | 28.4      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 105.7  | 0.9       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  | 941.4  |
| 2.5°  | 937.3  | 938.4  | 937.3  | 938.0  | 936.1  | 936.9  | 936.9  | 936.9  | 936.5  | 936.9  | 936.1  |
| 5°    | 928.9  | 929.7  | 928.2  | 928.9  | 927.8  | 928.9  | 929.3  | 928.9  | 928.2  | 928.6  | 927.1  |
| 7.5°  | 916.5  | 917.2  | 916.1  | 917.2  | 915.7  | 917.6  | 917.2  | 916.1  | 914.9  | 914.9  | 913.4  |
| 10°   | 909.6  | 910.0  | 907.0  | 905.9  | 902.5  | 903.2  | 904.3  | 905.5  | 906.6  | 908.9  | 908.5  |
| 12.5° | 910.0  | 910.0  | 905.5  | 900.6  | 895.6  | 896.8  | 898.7  | 902.8  | 907.4  | 911.5  | 911.9  |
| 15°   | 913.8  | 913.4  | 906.6  | 898.7  | 895.3  | 898.7  | 899.8  | 902.5  | 909.6  | 916.8  | 917.2  |
| 17.5° | 916.5  | 916.5  | 905.9  | 896.8  | 896.4  | 901.7  | 901.3  | 902.5  | 910.4  | 921.0  | 921.4  |
| 20°   | 921.4  | 921.4  | 907.8  | 897.9  | 897.9  | 903.6  | 904.0  | 905.9  | 913.8  | 925.5  | 927.4  |
| 22.5° | 932.3  | 932.7  | 918.3  | 910.4  | 911.2  | 914.6  | 915.7  | 918.7  | 925.9  | 938.8  | 941.1  |
| 25°   | 947.9  | 948.6  | 933.9  | 929.3  | 932.0  | 938.4  | 937.6  | 939.9  | 947.9  | 960.4  | 962.6  |
| 27.5° | 969.4  | 967.5  | 953.9  | 952.0  | 954.7  | 959.2  | 958.8  | 959.2  | 965.6  | 977.0  | 979.6  |
| 30°   | 997.4  | 996.7  | 986.8  | 988.0  | 986.8  | 985.3  | 985.7  | 988.7  | 992.1  | 1001.2 | 1003.9 |
| 32.5° | 1024.7 | 1025.4 | 1019.4 | 1025.1 | 1033.4 | 1039.1 | 1030.4 | 1022.0 | 1018.2 | 1023.2 | 1025.4 |
| 35°   | 1073.9 | 1075.8 | 1066.3 | 1062.5 | 1073.9 | 1090.5 | 1065.9 | 1052.3 | 1059.9 | 1066.3 | 1068.2 |
| 37.5° | 1157.5 | 1158.6 | 1142.7 | 1127.6 | 1119.3 | 1135.2 | 1110.6 | 1111.7 | 1138.2 | 1150.3 | 1149.9 |
| 40°   | 1252.8 | 1253.2 | 1242.6 | 1229.4 | 1215.0 | 1218.8 | 1209.0 | 1212.0 | 1229.4 | 1240.4 | 1243.4 |
| 42.5° | 1366.4 | 1365.2 | 1348.6 | 1329.7 | 1325.5 | 1329.3 | 1312.6 | 1310.4 | 1330.4 | 1350.1 | 1350.5 |
| 45°   | 1513.6 | 1510.9 | 1489.3 | 1468.5 | 1448.5 | 1440.1 | 1436.0 | 1447.0 | 1474.6 | 1492.7 | 1493.1 |
| 47.5° | 1672.1 | 1664.9 | 1653.6 | 1636.9 | 1619.5 | 1611.2 | 1604.4 | 1609.7 | 1629.7 | 1636.9 | 1637.7 |
| 50°   | 1835.2 | 1836.7 | 1839.0 | 1832.5 | 1826.1 | 1823.5 | 1805.7 | 1795.5 | 1801.5 | 1788.3 | 1786.4 |
| 52.5° | 2028.5 | 2031.6 | 2053.5 | 2072.1 | 2083.0 | 2088.7 | 2055.0 | 2019.8 | 2000.2 | 1974.4 | 1966.9 |
| 55°   | 2256.7 | 2261.6 | 2293.8 | 2345.3 | 2398.2 | 2426.2 | 2365.3 | 2299.5 | 2238.5 | 2190.5 | 2175.0 |
| 57.5° | 2511.0 | 2519.7 | 2564.0 | 2662.7 | 2771.3 | 2837.5 | 2734.6 | 2615.0 | 2497.4 | 2428.1 | 2416.0 |
| 60°   | 2809.2 | 2817.5 | 2878.8 | 3020.3 | 3196.2 | 3295.8 | 3139.9 | 2944.2 | 2797.8 | 2731.6 | 2709.3 |
| 62.5° | 3164.1 | 3164.8 | 3240.1 | 3405.5 | 3637.8 | 3776.3 | 3565.2 | 3303.7 | 3152.7 | 3072.9 | 3051.3 |
| 65°   | 3545.9 | 3547.8 | 3625.7 | 3804.3 | 4044.6 | 4195.2 | 3956.8 | 3684.4 | 3499.7 | 3382.0 | 3365.4 |
| 67.5° | 3815.7 | 3823.6 | 3905.7 | 4120.7 | 4345.4 | 4481.3 | 4234.5 | 3926.5 | 3713.1 | 3572.7 | 3558.7 |
| 70°   | 3772.5 | 3803.6 | 3900.1 | 4150.9 | 4463.5 | 4657.2 | 4279.6 | 3897.8 | 3616.3 | 3450.5 | 3438.8 |
| 72.5° | 3290.1 | 3349.5 | 3478.1 | 3807.3 | 4307.2 | 4574.0 | 4034.0 | 3491.0 | 3172.4 | 3031.3 | 3010.1 |
| 75°   | 2240.4 | 2336.9 | 2531.0 | 3005.9 | 3679.8 | 3960.2 | 3396.0 | 2783.4 | 2483.7 | 2288.5 | 2274.1 |
| 77.5° | 998.9  | 1020.9 | 1266.8 | 1813.6 | 2539.4 | 2844.0 | 2467.5 | 1820.8 | 1366.7 | 1090.1 | 1031.9 |
| 80°   | 278.5  | 281.9  | 376.1  | 675.4  | 1271.0 | 1671.0 | 1364.5 | 709.5  | 398.8  | 281.1  | 264.9  |
| 82.5° | 88.5   | 96.1   | 117.3  | 175.2  | 427.2  | 762.5  | 438.6  | 189.2  | 134.7  | 107.5  | 96.9   |
| 85°   | 43.1   | 42.8   | 59.4   | 71.1   | 109.0  | 168.8  | 116.2  | 87.8   | 76.8   | 51.1   | 46.2   |
| 87.5° | 18.2   | 18.5   | 27.6   | 25.0   | 31.8   | 27.2   | 37.5   | 39.4   | 41.2   | 22.7   | 19.7   |
| 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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