

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: P387050

Luminaire Tested: **GWC-SA2D-740-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-740-U-5MQ
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17011 lumens
Efficiency: N/A
Efficacy: 131.9 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): 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

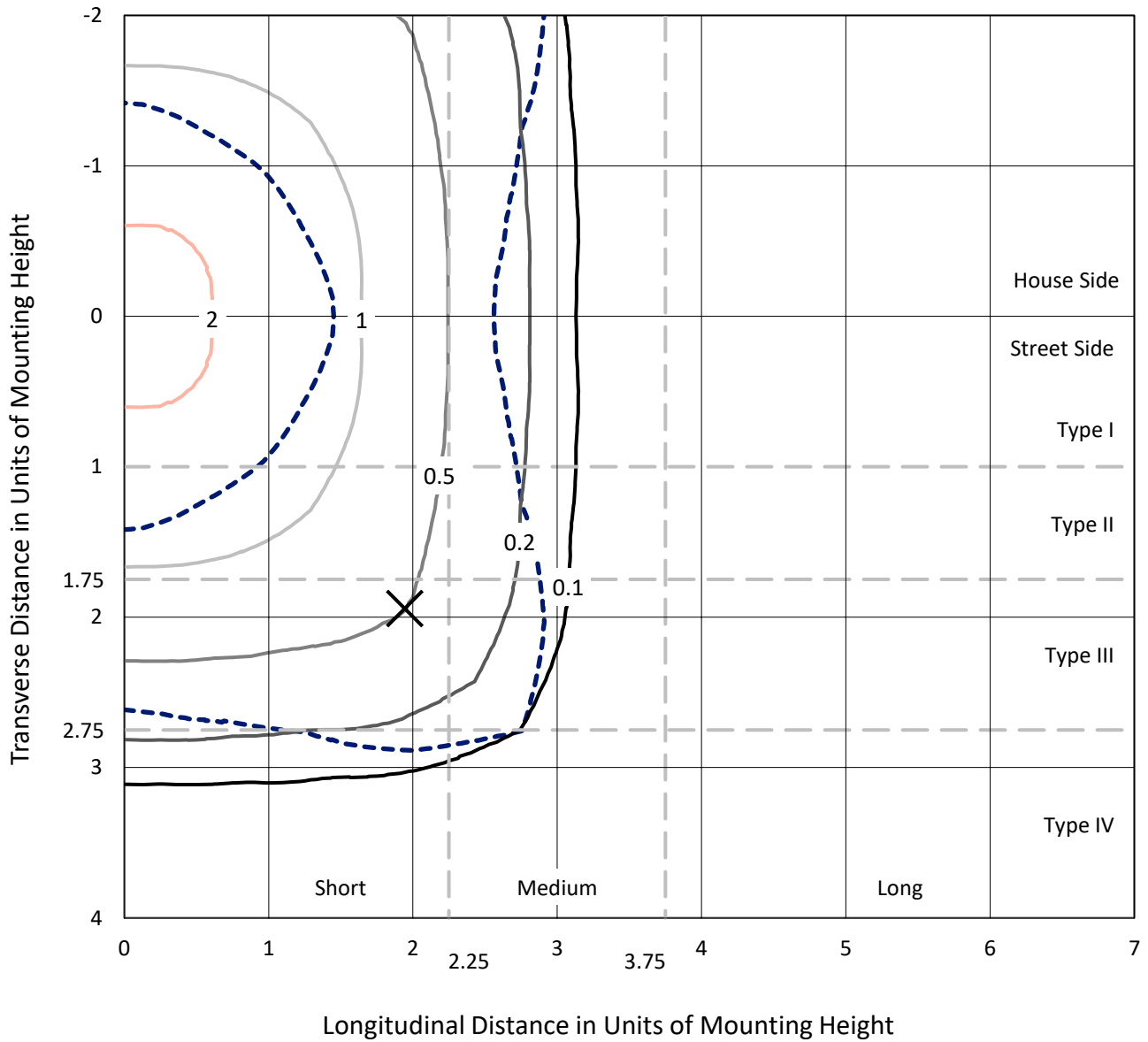




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Iso-Footcandle Lines of Horizontal Illumination

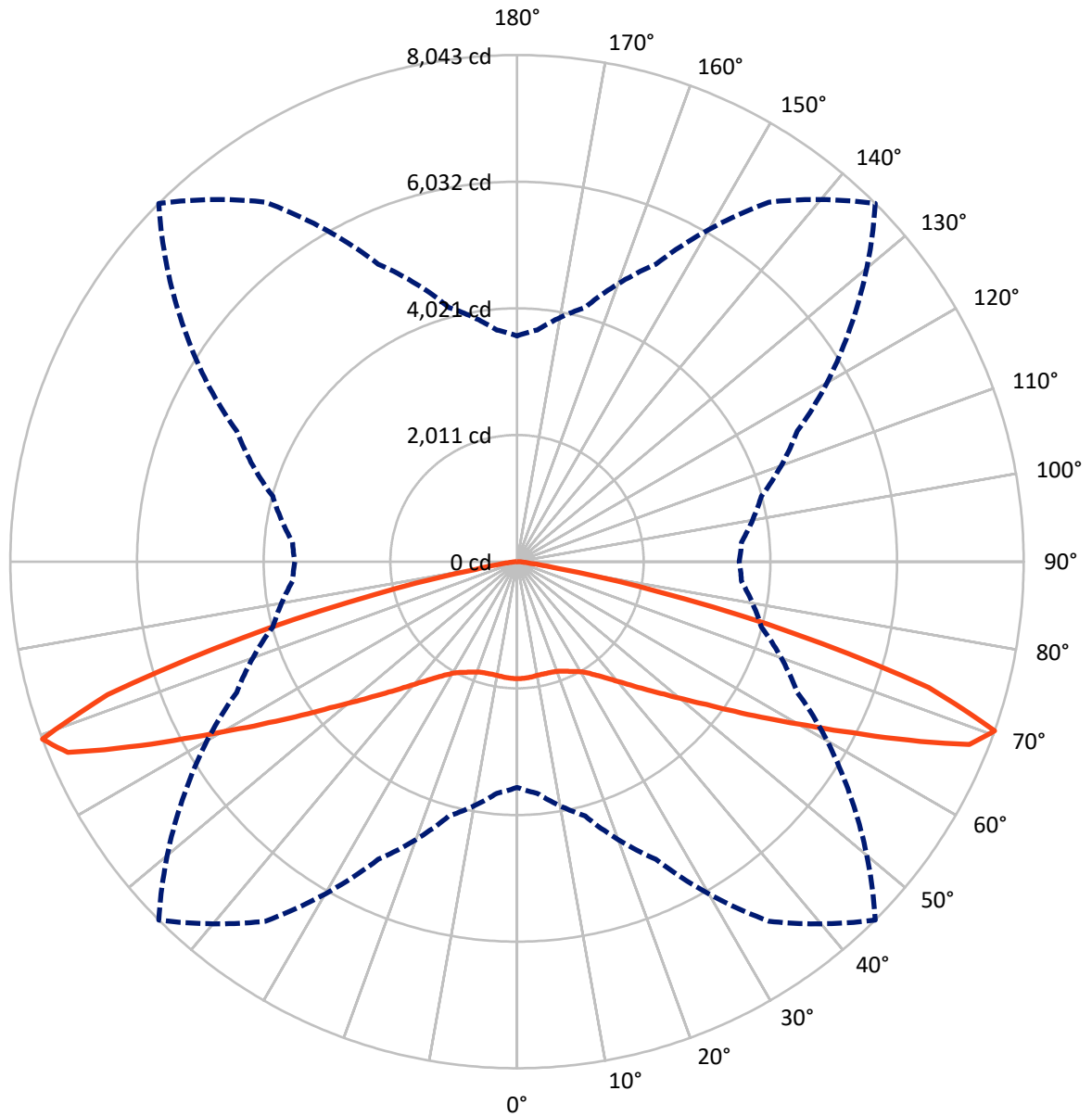
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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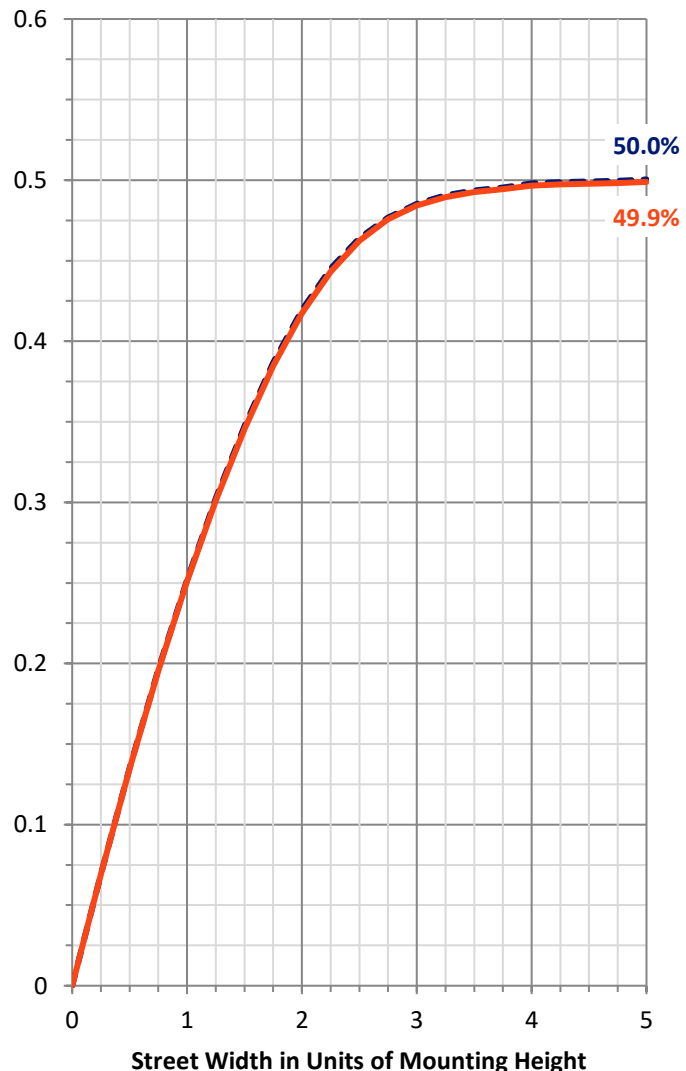
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8505.5 | 0.0 | 8505.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8505.5 | 0.0 | 8505.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17011.0 | 0.0 | 17011.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.0 | 1.0 |
| 10°-20° | 516.6 | 3.0 |
| 20°-30° | 879.4 | 5.2 |
| 30°-40° | 1394.7 | 8.2 |
| 40°-50° | 2269.6 | 13.3 |
| 50°-60° | 3742.1 | 22.0 |
| 60°-70° | 5493.5 | 32.3 |
| 70°-80° | 2429.2 | 14.3 |
| 80°-90° | 110.0 | 0.6 |
| 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° | 17011.0 | 100.0 |
| 0°-180° | 17011.0 | 100.0 |



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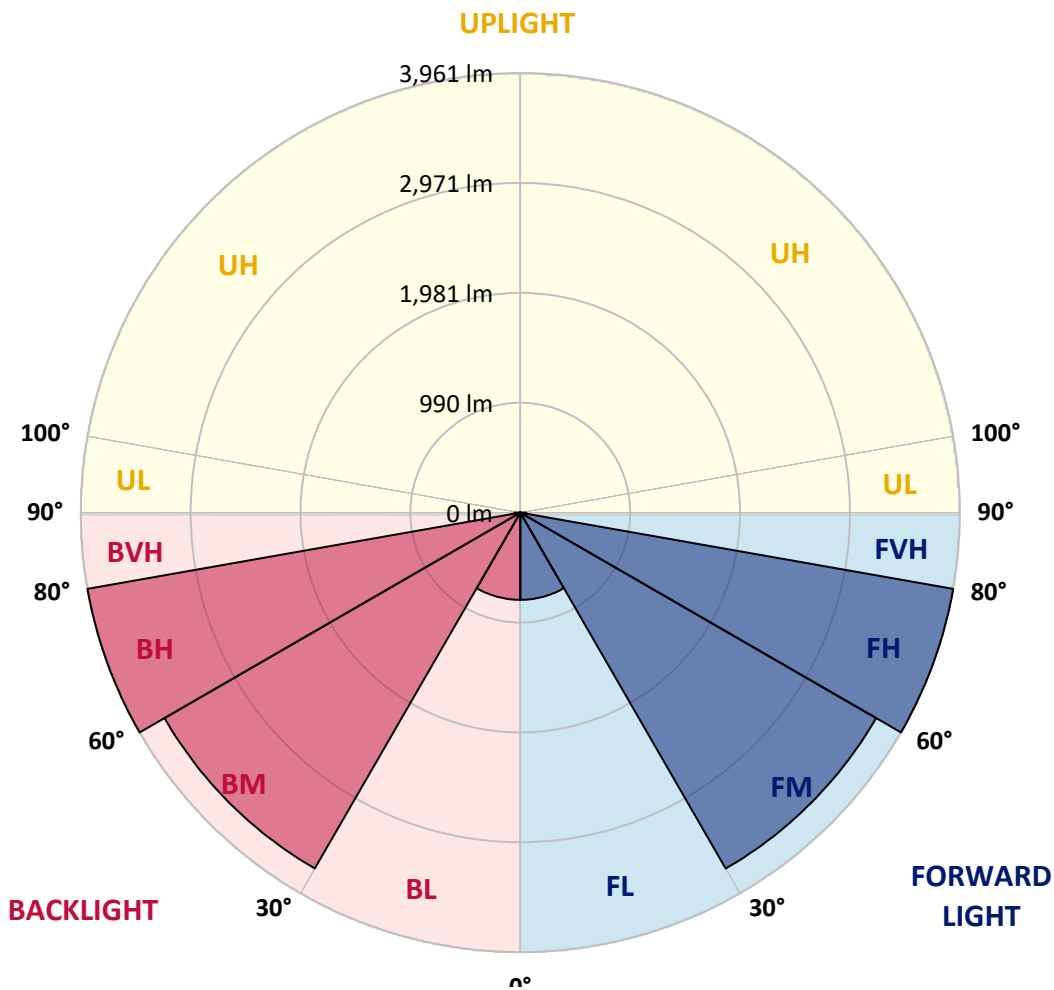
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 786.0 | 4.6 | | | |
| FM (30°-60°) | 3703.2 | 21.8 | | | |
| FH (60°-80°) | 3961.4 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 55.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 786.0 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 3703.2 | 21.8 | B3/5000 | | |
| BH (60°-80°) | 3961.4 | 23.3 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 55.0 | 0.3 | | | G1/100 |
| 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° | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 |
| 2.5° | 1855.1 | 1853.4 | 1857.3 | 1856.7 | 1853.4 | 1853.9 | 1853.9 | 1855.6 | 1855.6 | 1854.5 | 1854.5 |
| 5° | 1848.3 | 1847.2 | 1851.7 | 1851.7 | 1848.3 | 1849.4 | 1850.5 | 1852.2 | 1851.7 | 1850.5 | 1850.0 |
| 7.5° | 1839.9 | 1839.3 | 1843.8 | 1843.8 | 1841.5 | 1842.7 | 1841.5 | 1842.1 | 1841.0 | 1839.9 | 1838.2 |
| 10° | 1825.8 | 1826.9 | 1830.8 | 1832.0 | 1832.0 | 1832.5 | 1831.4 | 1828.6 | 1826.9 | 1825.2 | 1823.5 |
| 12.5° | 1812.8 | 1812.3 | 1817.9 | 1820.7 | 1825.2 | 1830.3 | 1826.9 | 1819.0 | 1815.6 | 1812.3 | 1811.1 |
| 15° | 1804.4 | 1804.9 | 1810.6 | 1815.6 | 1823.5 | 1834.2 | 1830.3 | 1817.9 | 1811.1 | 1807.2 | 1806.1 |
| 17.5° | 1802.7 | 1803.8 | 1811.1 | 1820.1 | 1828.6 | 1840.4 | 1838.2 | 1825.8 | 1814.5 | 1807.2 | 1805.5 |
| 20° | 1806.6 | 1807.2 | 1818.5 | 1831.4 | 1846.0 | 1857.3 | 1852.2 | 1838.7 | 1823.5 | 1812.3 | 1809.4 |
| 22.5° | 1814.0 | 1816.2 | 1830.3 | 1850.5 | 1873.1 | 1888.3 | 1882.1 | 1859.0 | 1835.3 | 1821.3 | 1817.3 |
| 25° | 1837.0 | 1837.6 | 1856.7 | 1884.3 | 1911.3 | 1928.8 | 1921.5 | 1888.8 | 1858.4 | 1842.7 | 1837.6 |
| 27.5° | 1884.9 | 1886.6 | 1905.7 | 1937.8 | 1960.9 | 1972.2 | 1967.6 | 1941.2 | 1915.3 | 1898.4 | 1900.1 |
| 30° | 1954.1 | 1956.4 | 1977.8 | 2013.3 | 2027.3 | 2030.1 | 2029.0 | 2016.6 | 1993.0 | 1970.5 | 1972.2 |
| 32.5° | 2038.6 | 2039.7 | 2068.4 | 2100.5 | 2111.8 | 2114.0 | 2111.8 | 2100.5 | 2072.4 | 2042.0 | 2043.7 |
| 35° | 2147.2 | 2150.6 | 2178.2 | 2209.2 | 2218.2 | 2222.7 | 2218.7 | 2204.1 | 2174.8 | 2145.0 | 2143.9 |
| 37.5° | 2281.2 | 2281.8 | 2310.5 | 2342.6 | 2353.9 | 2355.0 | 2350.5 | 2340.9 | 2304.3 | 2277.3 | 2275.6 |
| 40° | 2436.6 | 2438.9 | 2472.7 | 2507.0 | 2511.5 | 2506.4 | 2512.6 | 2507.0 | 2469.3 | 2438.3 | 2443.4 |
| 42.5° | 2625.8 | 2630.9 | 2671.4 | 2705.2 | 2692.2 | 2689.4 | 2693.3 | 2695.0 | 2664.6 | 2626.9 | 2623.5 |
| 45° | 2845.9 | 2850.4 | 2901.1 | 2928.1 | 2919.7 | 2901.1 | 2909.0 | 2922.5 | 2880.3 | 2833.5 | 2838.0 |
| 47.5° | 3097.0 | 3108.3 | 3162.3 | 3187.6 | 3166.8 | 3141.5 | 3156.7 | 3177.0 | 3127.4 | 3069.4 | 3066.6 |
| 50° | 3376.2 | 3390.3 | 3462.4 | 3497.9 | 3477.0 | 3430.3 | 3455.6 | 3469.1 | 3397.6 | 3322.8 | 3316.6 |
| 52.5° | 3674.1 | 3688.1 | 3778.8 | 3852.0 | 3838.5 | 3765.8 | 3801.3 | 3787.2 | 3705.0 | 3604.3 | 3596.4 |
| 55° | 4011.3 | 4016.9 | 4114.9 | 4233.1 | 4246.6 | 4193.1 | 4190.9 | 4167.8 | 4046.2 | 3929.7 | 3924.0 |
| 57.5° | 4358.1 | 4362.0 | 4488.7 | 4628.3 | 4692.0 | 4692.0 | 4628.9 | 4579.9 | 4418.3 | 4283.2 | 4269.2 |
| 60° | 4732.5 | 4746.6 | 4886.8 | 5076.5 | 5225.1 | 5269.0 | 5157.5 | 5024.1 | 4848.5 | 4683.5 | 4667.2 |
| 62.5° | 5065.8 | 5082.1 | 5296.6 | 5579.2 | 5817.9 | 5977.8 | 5705.3 | 5488.0 | 5168.2 | 4903.6 | 4872.7 |
| 65° | 5108.0 | 5151.9 | 5464.4 | 5976.1 | 6510.4 | 6829.6 | 6307.2 | 5771.8 | 5189.1 | 4821.4 | 4789.9 |
| 67.5° | 4664.9 | 4739.2 | 5161.5 | 5958.1 | 7062.1 | 7747.3 | 6691.7 | 5609.6 | 4815.3 | 4408.8 | 4373.9 |
| 70° | 3584.6 | 3692.6 | 4179.6 | 5211.6 | 6967.0 | 8042.9 | 6450.7 | 4911.0 | 4014.7 | 3577.2 | 3528.3 |
| 72.5° | 1966.5 | 2011.0 | 2449.0 | 3568.8 | 5585.4 | 6834.7 | 5380.5 | 3631.3 | 2662.4 | 2166.4 | 2084.2 |
| 75° | 623.8 | 639.6 | 862.5 | 1460.4 | 3159.5 | 4527.0 | 3417.9 | 1782.4 | 981.3 | 723.4 | 715.0 |
| 77.5° | 277.0 | 278.7 | 311.9 | 426.2 | 1088.3 | 2293.6 | 1307.3 | 485.3 | 334.4 | 292.2 | 301.8 |
| 80° | 175.1 | 175.1 | 193.1 | 211.1 | 296.1 | 666.0 | 353.6 | 230.8 | 197.0 | 183.0 | 186.9 |
| 82.5° | 83.9 | 92.9 | 125.5 | 135.1 | 162.7 | 224.1 | 181.3 | 150.9 | 131.7 | 98.0 | 91.2 |
| 85° | 55.2 | 46.2 | 79.4 | 89.5 | 94.6 | 107.5 | 105.3 | 99.6 | 86.1 | 49.0 | 54.6 |
| 87.5° | 24.8 | 23.6 | 41.1 | 37.7 | 35.5 | 27.0 | 40.5 | 50.1 | 48.4 | 24.2 | 24.2 |
| 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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