

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639724

Luminaire Tested: GWS-SA5C-740-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-740-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12531.4 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

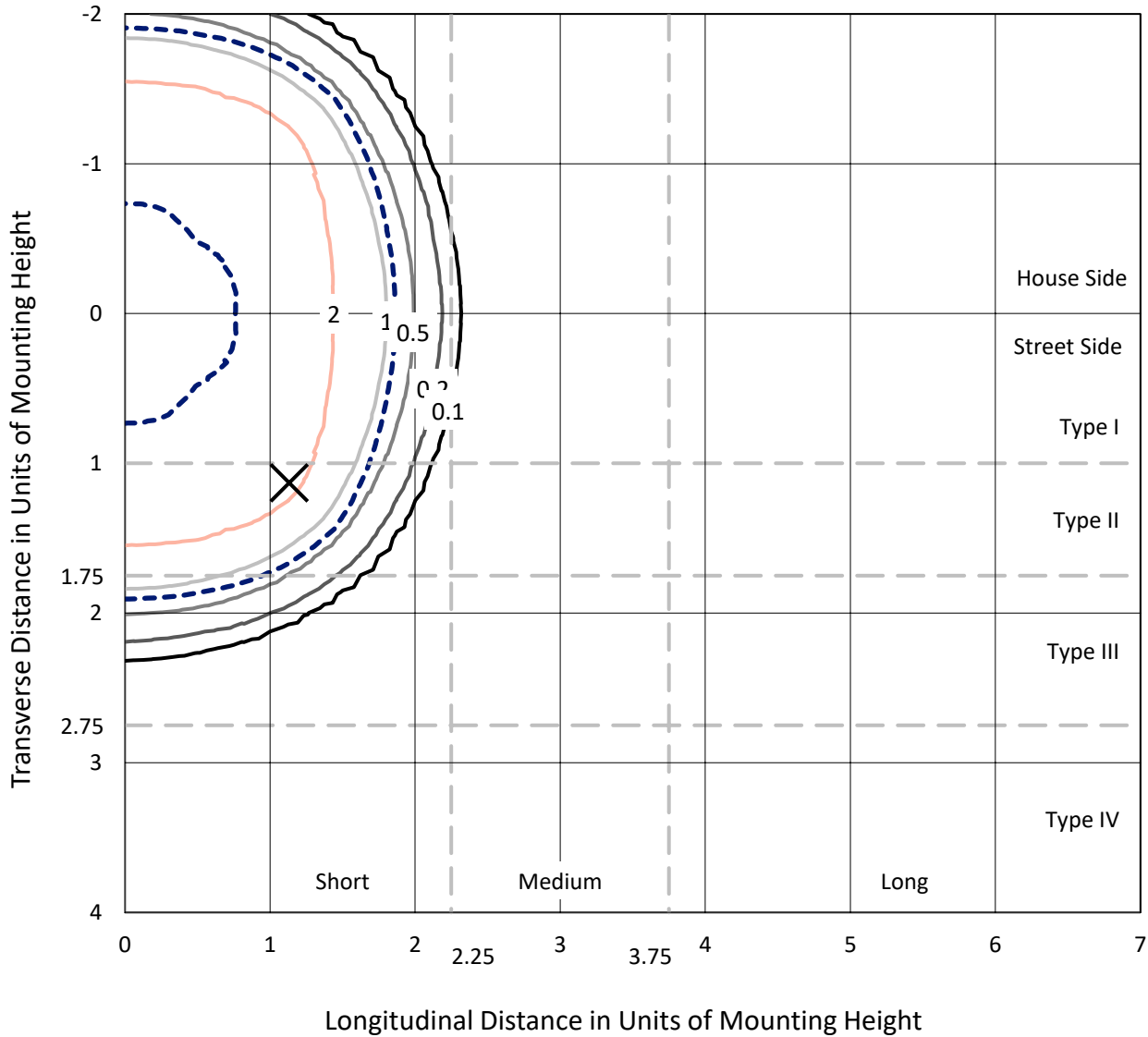


REPORT NUMBER: P639724

CATALOG NUMBER: GWS-SA5C-740-U-5WQ-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

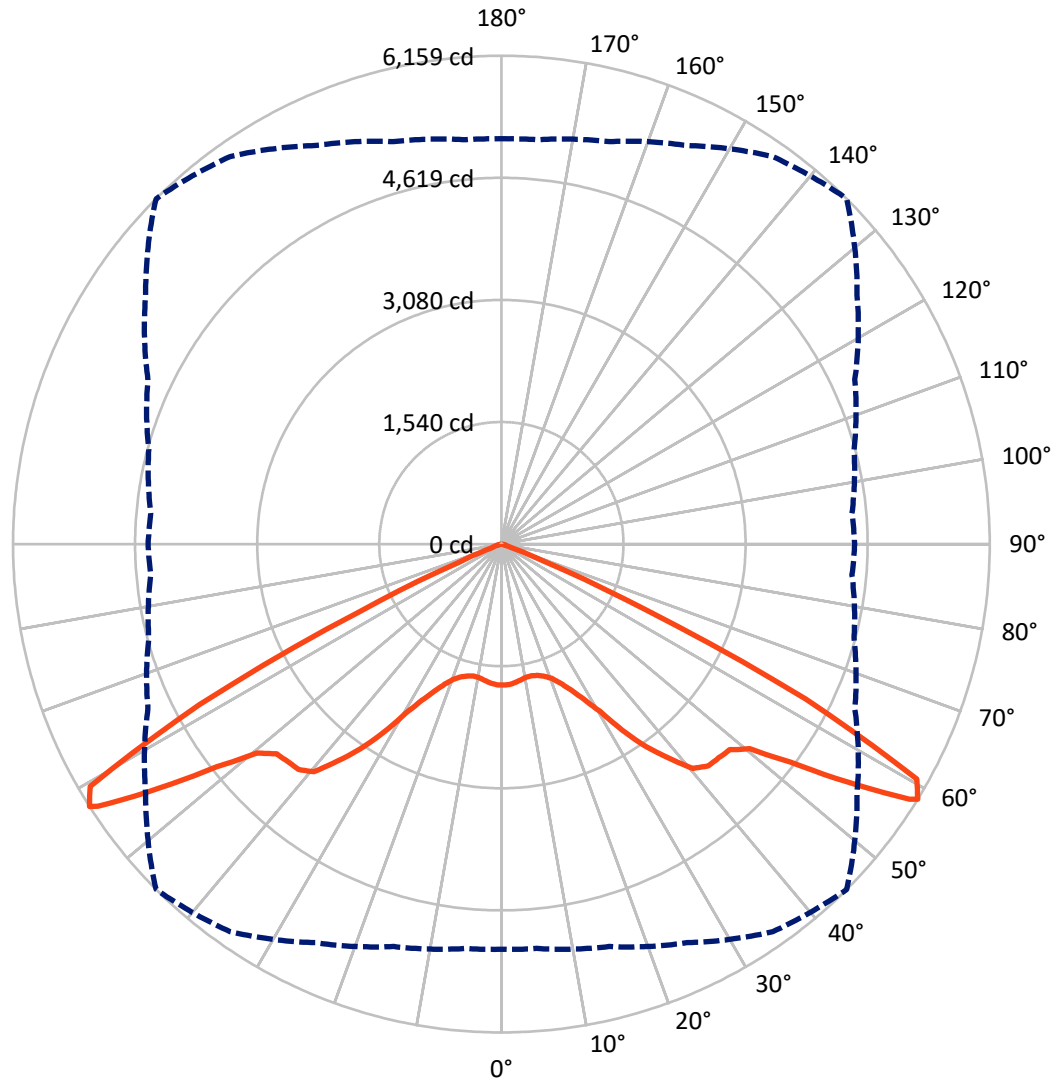
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P639724
CATALOG NUMBER: GWS-SA5C-740-U-5WQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P639724

CATALOG NUMBER: GWS-SA5C-740-U-5WQ-W-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6265.7 | 0.0 | 6265.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6265.7 | 0.0 | 6265.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12531.4 | 0.0 | 12531.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.8 | 1.3 |
| 10°-20° | 490.6 | 3.9 |
| 20°-30° | 927.9 | 7.4 |
| 30°-40° | 1830.0 | 14.6 |
| 40°-50° | 2895.9 | 23.1 |
| 50°-60° | 4256.9 | 34.0 |
| 60°-70° | 1900.1 | 15.2 |
| 70°-80° | 63.7 | 0.5 |
| 80°-90° | 0.5 | 0.0 |
| 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° | 12531.4 | 100.0 |
| 0°-180° | 12531.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P639724

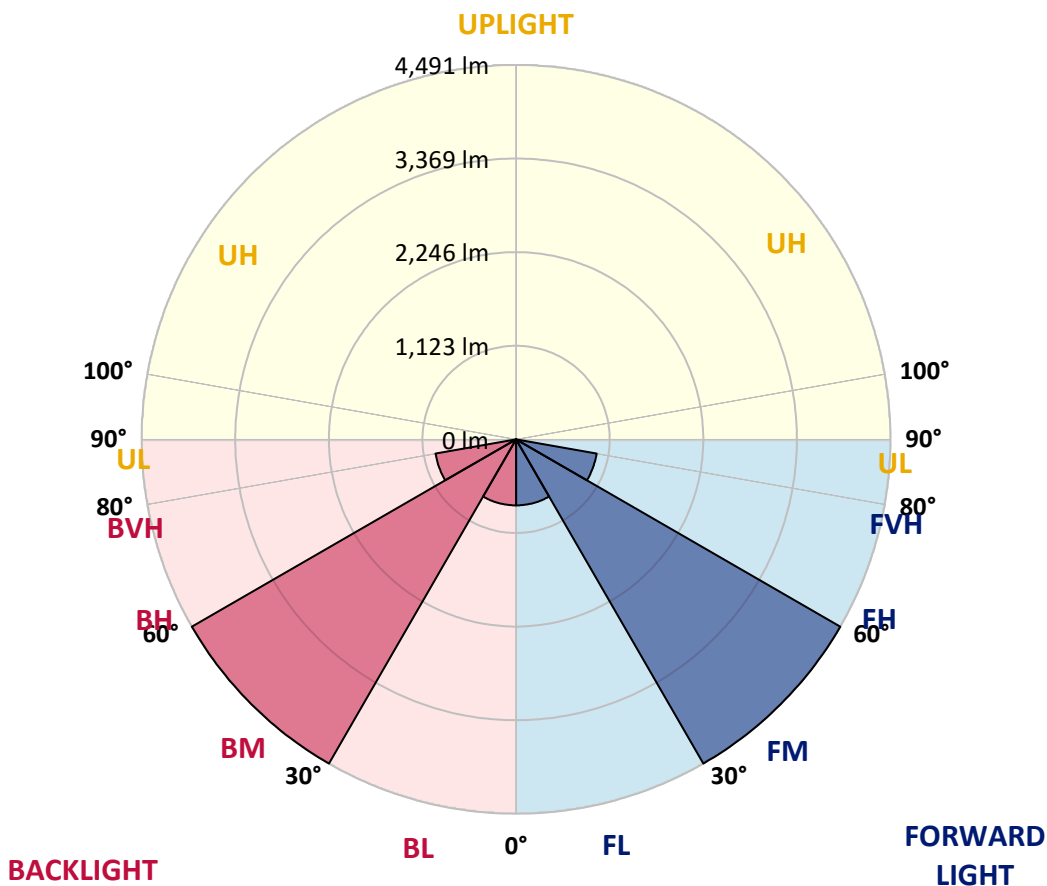
CATALOG NUMBER: GWS-SA5C-740-U-5WQ-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 792.1 | 6.3 | | | |
| FM (30°-60°) | 4491.4 | 35.8 | | | |
| FH (60°-80°) | 981.9 | 7.8 | | | G1/1800 |
| FVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| BL (0°-30°) | 792.1 | 6.3 | B2/1000 | | |
| BM (30°-60°) | 4491.4 | 35.8 | B3/5000 | | |
| BH (60°-80°) | 981.9 | 7.8 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P639724

CATALOG NUMBER: GWS-SA5C-740-U-5WQ-W-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 | 1777.1 |
| 2.5° | 1760.0 | 1763.5 | 1766.9 | 1768.6 | 1770.3 | 1775.4 | 1777.1 | 1772.0 | 1772.0 | 1761.8 | 1773.7 |
| 5° | 1751.5 | 1754.9 | 1758.3 | 1756.6 | 1756.6 | 1756.6 | 1754.9 | 1748.1 | 1746.4 | 1736.1 | 1748.1 |
| 7.5° | 1736.1 | 1739.6 | 1739.6 | 1734.4 | 1731.0 | 1731.0 | 1729.3 | 1720.8 | 1719.1 | 1708.8 | 1720.8 |
| 10° | 1724.2 | 1725.9 | 1724.2 | 1714.0 | 1707.1 | 1707.1 | 1705.4 | 1702.0 | 1703.7 | 1696.9 | 1707.1 |
| 12.5° | 1731.0 | 1732.7 | 1725.9 | 1712.2 | 1703.7 | 1702.0 | 1696.9 | 1691.8 | 1696.9 | 1695.2 | 1705.4 |
| 15° | 1753.2 | 1754.9 | 1743.0 | 1725.9 | 1719.1 | 1719.1 | 1705.4 | 1691.8 | 1698.6 | 1700.3 | 1712.2 |
| 17.5° | 1780.5 | 1780.5 | 1765.2 | 1749.8 | 1751.5 | 1751.5 | 1729.3 | 1705.4 | 1707.1 | 1714.0 | 1725.9 |
| 20° | 1813.0 | 1813.0 | 1797.6 | 1794.2 | 1806.1 | 1807.8 | 1780.5 | 1743.0 | 1734.4 | 1739.6 | 1753.2 |
| 22.5° | 1871.0 | 1871.0 | 1859.1 | 1867.6 | 1894.9 | 1903.4 | 1862.5 | 1809.6 | 1789.1 | 1792.5 | 1806.1 |
| 25° | 1961.5 | 1961.5 | 1958.1 | 1978.6 | 2017.8 | 2036.6 | 1982.0 | 1912.0 | 1877.8 | 1872.7 | 1888.1 |
| 27.5° | 2113.4 | 2115.1 | 2110.0 | 2140.7 | 2190.2 | 2212.4 | 2137.3 | 2045.1 | 2004.2 | 1995.6 | 2011.0 |
| 30° | 2309.7 | 2309.7 | 2311.5 | 2354.1 | 2419.0 | 2448.0 | 2349.0 | 2241.5 | 2193.7 | 2166.3 | 2186.8 |
| 32.5° | 2528.3 | 2531.7 | 2548.7 | 2620.4 | 2734.8 | 2794.6 | 2649.5 | 2499.2 | 2422.4 | 2393.4 | 2415.6 |
| 35° | 2888.5 | 2856.0 | 2835.5 | 2888.5 | 3054.1 | 3132.6 | 2946.5 | 2770.7 | 2712.6 | 2709.2 | 2765.5 |
| 37.5° | 3245.2 | 3226.5 | 3183.8 | 3238.4 | 3386.9 | 3422.8 | 3217.9 | 3071.1 | 3030.2 | 3052.3 | 3108.7 |
| 40° | 3528.6 | 3494.5 | 3438.2 | 3489.4 | 3684.0 | 3719.8 | 3467.2 | 3322.1 | 3306.7 | 3356.2 | 3433.0 |
| 42.5° | 3752.3 | 3704.5 | 3629.4 | 3641.3 | 3798.4 | 3824.0 | 3600.3 | 3491.1 | 3501.3 | 3562.8 | 3649.8 |
| 45° | 3853.0 | 3815.4 | 3748.9 | 3743.7 | 3842.7 | 3844.5 | 3668.6 | 3612.3 | 3639.6 | 3687.4 | 3755.7 |
| 47.5° | 3895.7 | 3878.6 | 3841.0 | 3832.5 | 3888.8 | 3875.2 | 3765.9 | 3742.0 | 3767.6 | 3781.3 | 3820.6 |
| 50° | 4001.5 | 4001.5 | 4006.6 | 4013.5 | 4071.5 | 4057.8 | 3981.0 | 3953.7 | 3921.3 | 3873.5 | 3885.4 |
| 52.5° | 4298.5 | 4310.5 | 4360.0 | 4414.6 | 4520.5 | 4564.9 | 4440.2 | 4281.5 | 4126.1 | 4022.0 | 4022.0 |
| 55° | 4834.6 | 4846.5 | 4904.6 | 4996.8 | 5191.4 | 5297.2 | 5007.0 | 4657.0 | 4443.7 | 4302.0 | 4320.7 |
| 57.5° | 5129.9 | 5143.6 | 5263.1 | 5512.3 | 5889.6 | 6068.8 | 5445.7 | 4926.8 | 4628.0 | 4465.8 | 4479.5 |
| 58° | 5111.1 | 5119.7 | 5254.5 | 5546.5 | 5966.4 | 6159.3 | 5476.5 | 4918.2 | 4604.1 | 4438.5 | 4455.6 |
| 60° | 4541.0 | 4529.0 | 4744.1 | 5160.6 | 5753.0 | 6019.3 | 5170.9 | 4489.7 | 4124.4 | 3955.4 | 3963.9 |
| 62.5° | 2968.7 | 2975.5 | 3161.6 | 3596.9 | 4057.8 | 4308.8 | 3612.3 | 3105.3 | 2811.6 | 2709.2 | 2683.6 |
| 65° | 1239.4 | 1217.2 | 1331.6 | 1574.0 | 1850.5 | 1990.5 | 1710.5 | 1447.6 | 1266.7 | 1198.4 | 1217.2 |
| 67.5° | 319.2 | 310.7 | 317.5 | 397.8 | 486.5 | 575.3 | 483.1 | 368.7 | 320.9 | 324.4 | 324.4 |
| 70° | 181.0 | 170.7 | 138.3 | 128.0 | 124.6 | 124.6 | 124.6 | 124.6 | 143.4 | 169.0 | 174.1 |
| 72.5° | 136.6 | 128.0 | 100.7 | 87.1 | 76.8 | 71.7 | 75.1 | 87.1 | 104.1 | 126.3 | 129.7 |
| 75° | 68.3 | 68.3 | 61.5 | 58.0 | 51.2 | 47.8 | 49.5 | 54.6 | 63.2 | 71.7 | 70.0 |
| 77.5° | 13.7 | 15.4 | 17.1 | 20.5 | 17.1 | 17.1 | 17.1 | 20.5 | 20.5 | 22.2 | 20.5 |
| 80° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 82.5° | 0.0 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |

(END OF REPORT)