

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: P629773

Luminaire Tested: GWS-SA1C-735-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1C-735-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4806.1 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

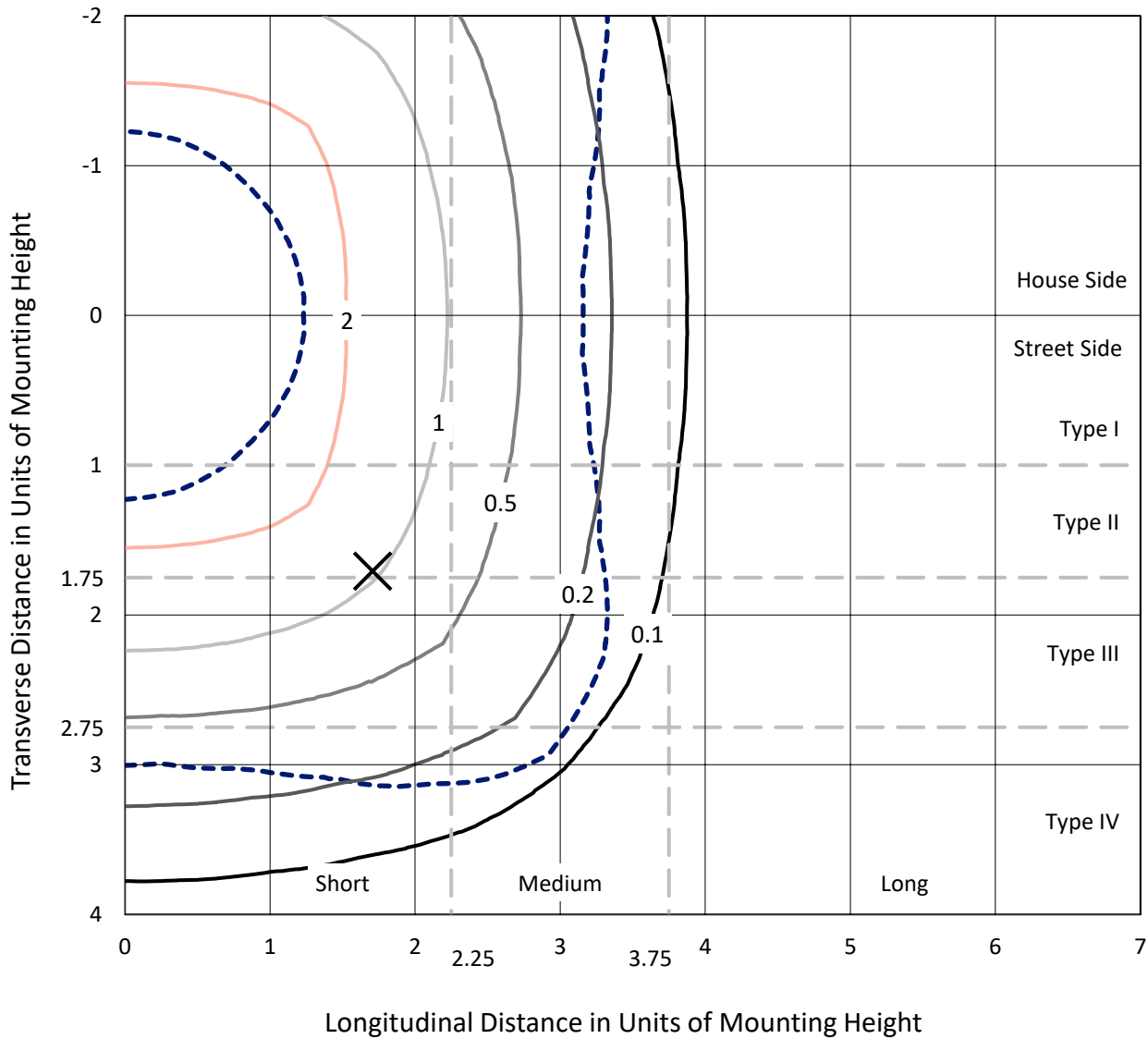
Input Watts (W): 34.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

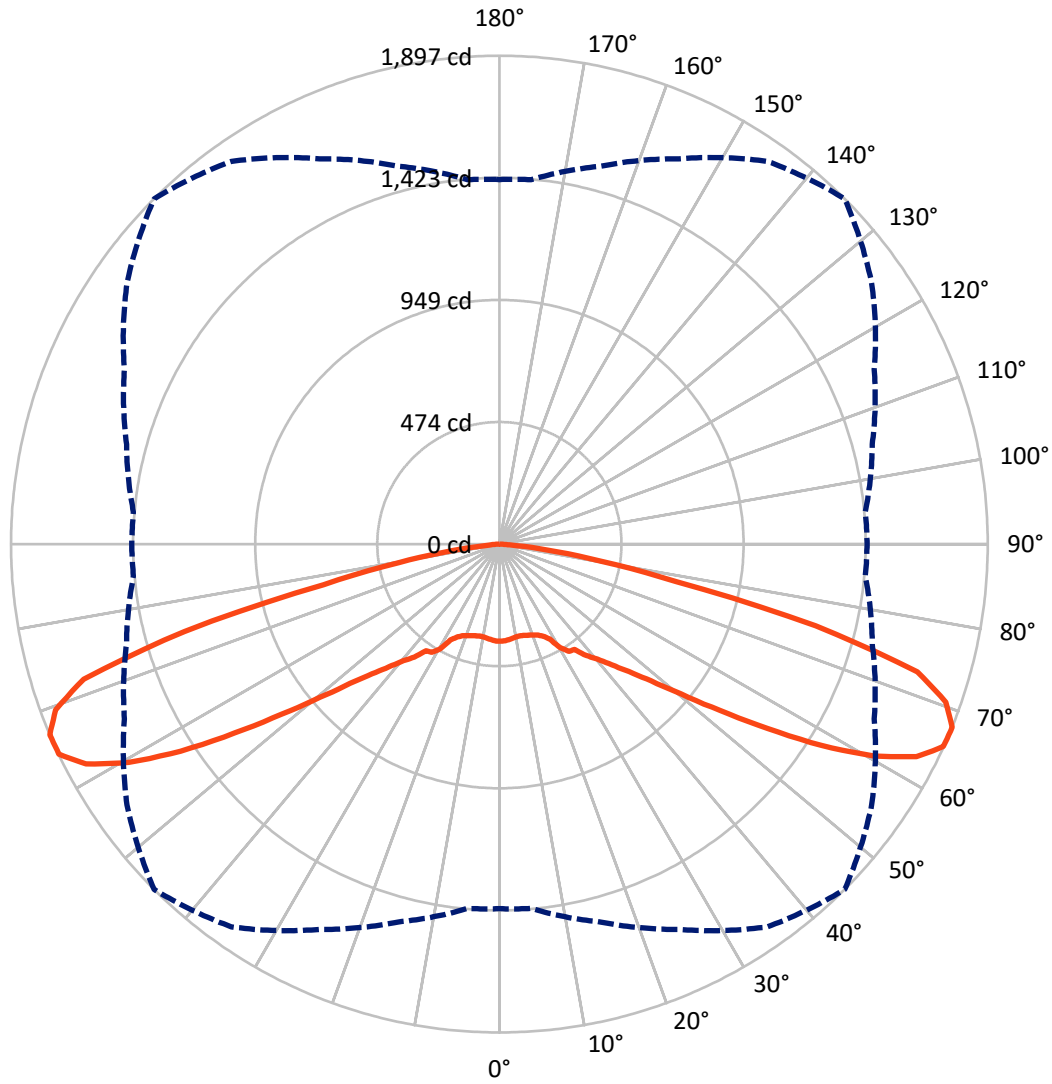
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2403.1 | 0.0 | 2403.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2403.1 | 0.0 | 2403.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4806.1 | 0.0 | 4806.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.4 | 0.7 |
| 10°-20° | 105.0 | 2.2 |
| 20°-30° | 188.4 | 3.9 |
| 30°-40° | 318.2 | 6.6 |
| 40°-50° | 559.1 | 11.6 |
| 50°-60° | 1078.6 | 22.4 |
| 60°-70° | 1564.9 | 32.6 |
| 70°-80° | 895.4 | 18.6 |
| 80°-90° | 61.1 | 1.3 |
| 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° | 4806.1 | 100.0 |
| 0°-180° | 4806.1 | 100.0 |

Coefficient of Utilization



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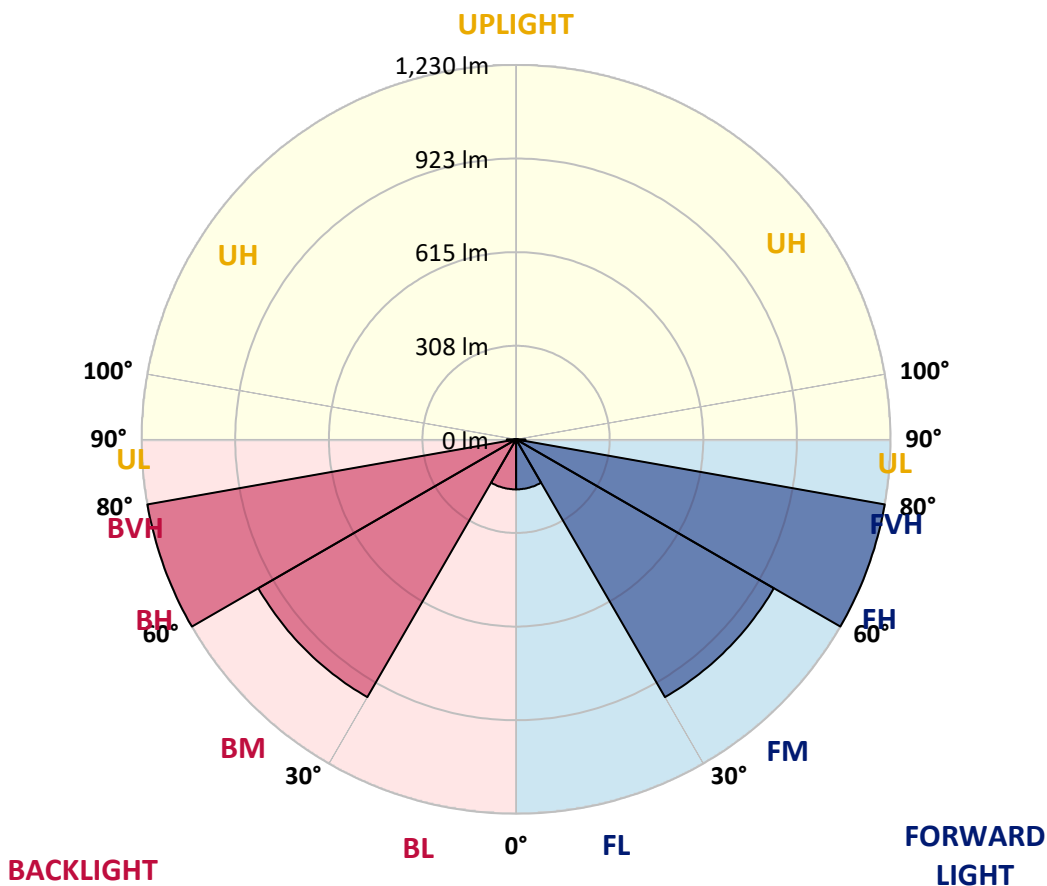
CATALOG NUMBER: GWS-SA1C-735-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 164.4 | 3.4 | | | |
| FM (30°-60°) | 978.0 | 20.3 | | | |
| FH (60°-80°) | 1230.1 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 30.6 | 0.6 | | | G1/100 |
| BL (0°-30°) | 164.4 | 3.4 | B1/500 | | |
| BM (30°-60°) | 978.0 | 20.3 | B1/1000 | | |
| BH (60°-80°) | 1230.1 | 25.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 30.6 | 0.6 | | | G1/100 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 |
| 2.5° | 373.8 | 374.2 | 374.9 | 374.9 | 375.5 | 376.6 | 376.9 | 376.2 | 376.6 | 374.9 | 376.6 |
| 5° | 372.8 | 373.2 | 373.5 | 372.8 | 372.8 | 373.2 | 373.2 | 372.5 | 372.8 | 371.1 | 372.8 |
| 7.5° | 370.4 | 370.8 | 370.8 | 369.8 | 368.7 | 369.4 | 369.4 | 368.7 | 369.1 | 367.4 | 369.4 |
| 10° | 368.4 | 368.4 | 368.1 | 366.0 | 365.0 | 366.0 | 366.4 | 366.7 | 368.1 | 366.7 | 369.1 |
| 12.5° | 369.8 | 369.8 | 368.7 | 366.0 | 364.3 | 365.0 | 365.7 | 366.4 | 368.7 | 368.4 | 371.1 |
| 15° | 373.5 | 373.8 | 371.1 | 368.1 | 367.0 | 368.1 | 367.4 | 367.0 | 370.1 | 371.1 | 374.2 |
| 17.5° | 376.6 | 376.6 | 373.2 | 370.1 | 370.4 | 372.1 | 370.8 | 369.1 | 372.1 | 374.2 | 377.6 |
| 20° | 379.3 | 378.9 | 375.2 | 373.2 | 374.5 | 376.9 | 375.9 | 373.5 | 375.5 | 377.9 | 381.0 |
| 22.5° | 386.1 | 385.7 | 381.7 | 380.6 | 382.0 | 384.4 | 383.4 | 381.3 | 383.7 | 387.1 | 390.8 |
| 25° | 405.4 | 404.8 | 398.6 | 395.2 | 394.6 | 396.3 | 395.9 | 395.2 | 399.0 | 403.1 | 407.5 |
| 27.5° | 431.3 | 430.9 | 426.5 | 423.1 | 418.7 | 417.3 | 418.4 | 421.4 | 426.9 | 429.9 | 433.7 |
| 30° | 444.2 | 444.2 | 443.5 | 448.9 | 458.5 | 467.6 | 460.5 | 448.9 | 444.2 | 442.8 | 446.6 |
| 32.5° | 461.2 | 462.9 | 460.5 | 466.6 | 482.6 | 496.2 | 482.6 | 463.9 | 460.5 | 460.5 | 464.6 |
| 35° | 500.3 | 500.9 | 497.2 | 496.2 | 501.3 | 503.0 | 496.5 | 489.7 | 493.5 | 494.1 | 499.2 |
| 37.5° | 531.5 | 531.5 | 529.8 | 532.5 | 543.1 | 549.5 | 539.0 | 526.8 | 527.8 | 528.5 | 534.9 |
| 40° | 579.8 | 581.1 | 577.1 | 576.7 | 580.8 | 586.6 | 575.4 | 567.6 | 573.0 | 574.7 | 584.5 |
| 42.5° | 639.9 | 639.9 | 633.8 | 632.1 | 634.8 | 641.0 | 630.4 | 625.3 | 632.5 | 633.8 | 639.6 |
| 45° | 711.7 | 713.4 | 705.2 | 702.1 | 703.5 | 705.5 | 698.1 | 695.7 | 702.5 | 705.5 | 715.7 |
| 47.5° | 799.0 | 800.7 | 793.6 | 793.2 | 791.9 | 793.2 | 786.1 | 784.7 | 790.2 | 787.8 | 798.7 |
| 50° | 906.7 | 909.8 | 903.7 | 912.2 | 911.1 | 915.2 | 905.4 | 898.2 | 898.2 | 891.8 | 897.9 |
| 52.5° | 1027.4 | 1033.5 | 1036.5 | 1050.8 | 1061.7 | 1071.9 | 1055.6 | 1044.4 | 1028.1 | 1014.8 | 1031.5 |
| 55° | 1158.9 | 1157.2 | 1176.6 | 1207.8 | 1239.8 | 1263.9 | 1232.0 | 1196.6 | 1170.1 | 1142.6 | 1149.0 |
| 57.5° | 1274.1 | 1279.9 | 1305.4 | 1362.5 | 1425.7 | 1476.7 | 1419.2 | 1351.3 | 1291.1 | 1251.7 | 1257.1 |
| 60° | 1369.9 | 1374.7 | 1408.7 | 1490.9 | 1601.4 | 1671.7 | 1580.7 | 1468.5 | 1381.2 | 1326.8 | 1332.6 |
| 62.5° | 1458.3 | 1462.7 | 1497.0 | 1587.8 | 1727.1 | 1818.9 | 1701.3 | 1548.0 | 1450.8 | 1396.1 | 1399.5 |
| 65° | 1509.3 | 1512.0 | 1558.9 | 1654.4 | 1801.2 | 1896.0 | 1763.5 | 1605.5 | 1510.0 | 1454.2 | 1456.3 |
| 67.5° | 1416.5 | 1420.9 | 1519.8 | 1651.7 | 1815.5 | 1897.4 | 1766.2 | 1607.2 | 1499.8 | 1427.0 | 1428.7 |
| 70° | 1117.4 | 1113.7 | 1231.6 | 1458.3 | 1733.6 | 1840.3 | 1687.7 | 1486.5 | 1320.7 | 1219.1 | 1217.4 |
| 72.5° | 852.0 | 853.0 | 918.6 | 1073.9 | 1413.4 | 1698.2 | 1489.2 | 1197.0 | 1018.2 | 941.1 | 938.0 |
| 75° | 617.9 | 627.4 | 680.7 | 794.6 | 988.6 | 1269.3 | 1121.2 | 887.0 | 767.4 | 721.2 | 714.4 |
| 77.5° | 278.3 | 290.6 | 365.0 | 498.9 | 661.0 | 701.5 | 704.2 | 602.2 | 454.4 | 377.6 | 365.7 |
| 80° | 81.2 | 87.0 | 111.8 | 191.3 | 307.9 | 398.0 | 316.1 | 265.8 | 165.5 | 129.8 | 123.7 |
| 82.5° | 34.3 | 39.1 | 47.9 | 53.0 | 89.4 | 184.5 | 114.9 | 73.1 | 68.0 | 55.1 | 50.3 |
| 85° | 14.6 | 15.6 | 20.1 | 21.4 | 28.9 | 39.4 | 36.4 | 33.0 | 31.6 | 24.5 | 22.4 |
| 87.5° | 6.1 | 6.1 | 6.1 | 5.4 | 5.1 | 5.4 | 7.5 | 9.5 | 12.6 | 9.9 | 9.2 |
| 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)