

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: P629330

Luminaire Tested: GWS-SA1B-740-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-740-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3746 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

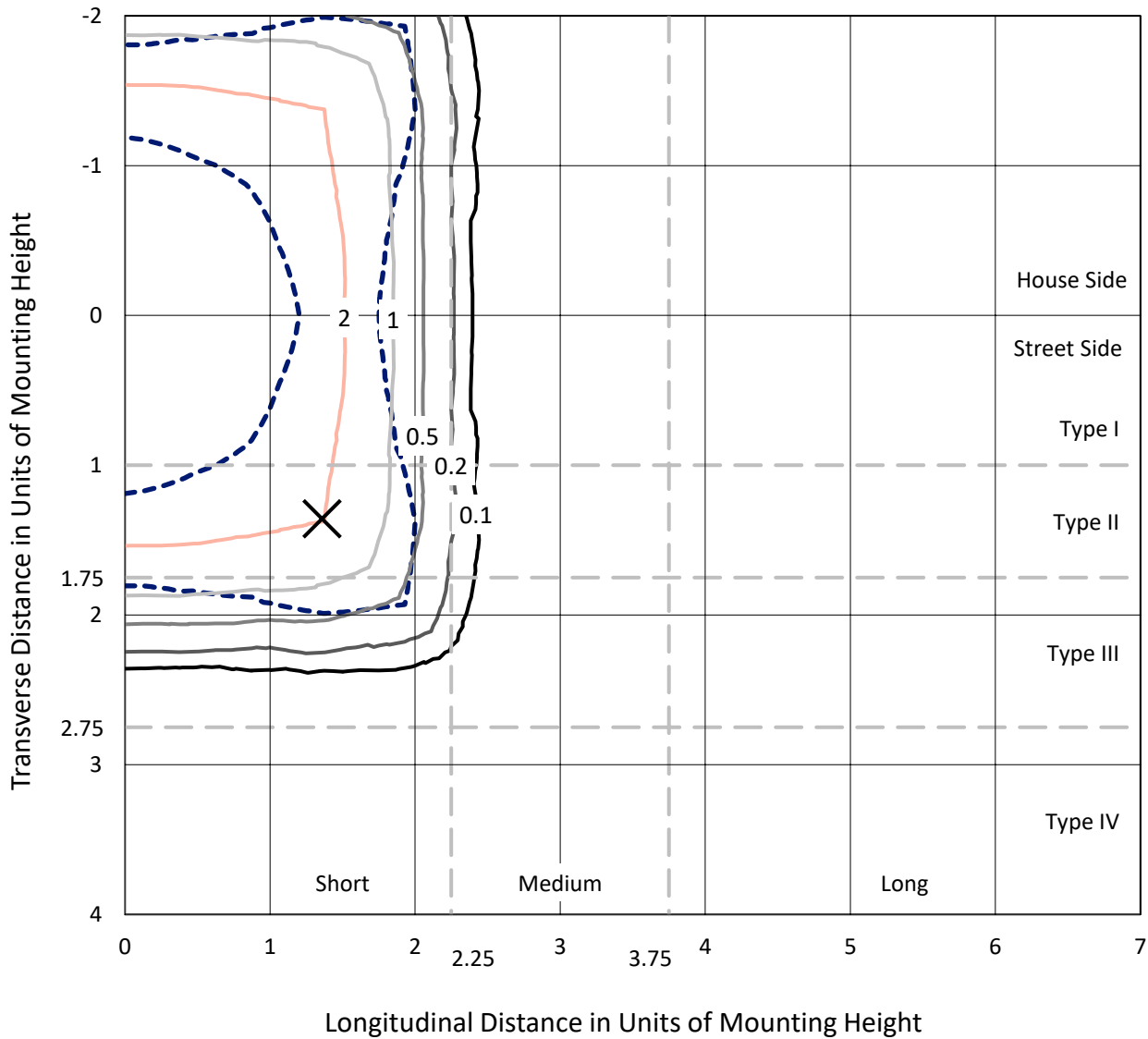
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

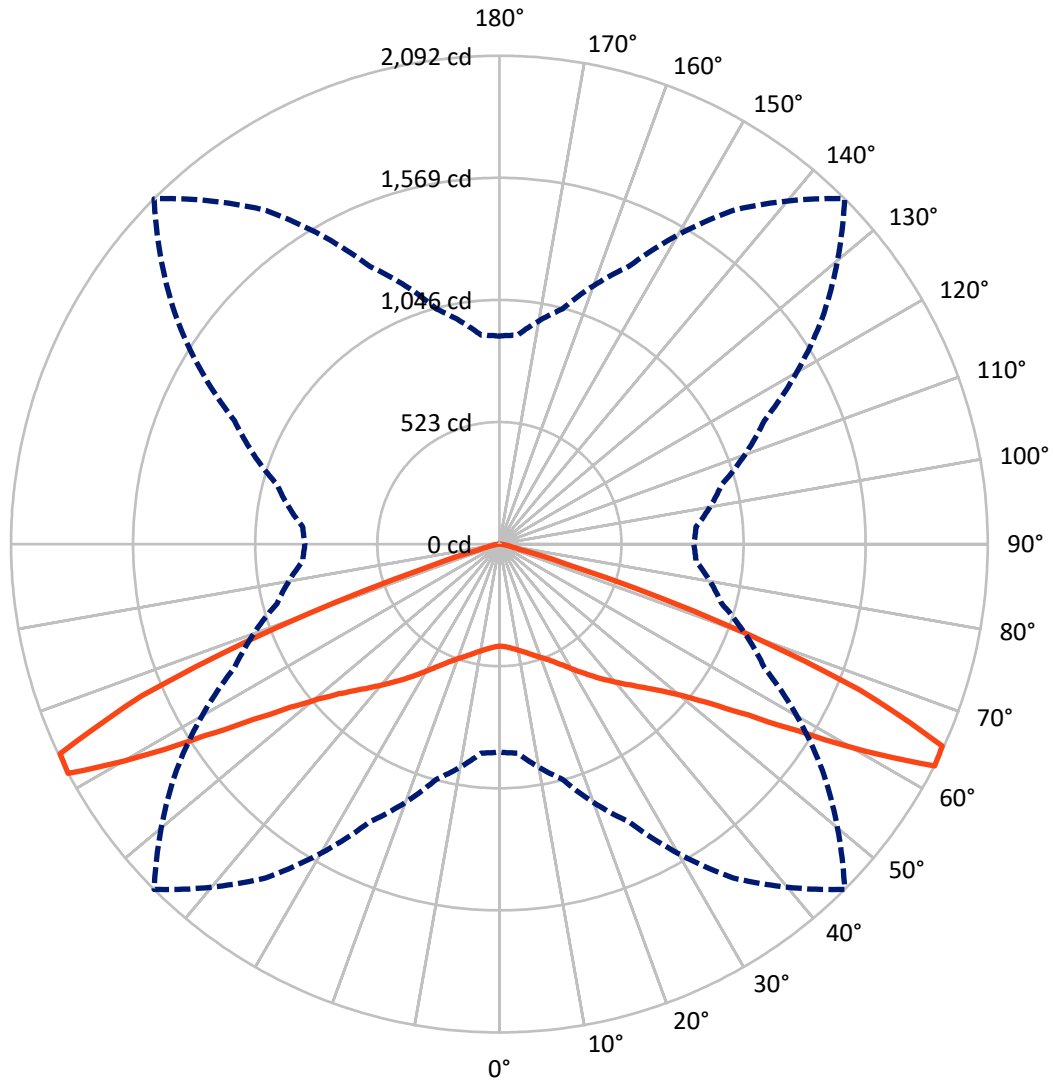
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1873.0 | 0.0 | 1873.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1873.0 | 0.0 | 1873.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3746.0 | 0.0 | 3746.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.9 | 1.1 |
| 10°-20° | 138.3 | 3.7 |
| 20°-30° | 261.6 | 7.0 |
| 30°-40° | 440.3 | 11.8 |
| 40°-50° | 703.5 | 18.8 |
| 50°-60° | 1134.0 | 30.3 |
| 60°-70° | 925.2 | 24.7 |
| 70°-80° | 89.8 | 2.4 |
| 80°-90° | 10.5 | 0.3 |
| 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° | 3746.0 | 100.0 |
| 0°-180° | 3746.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P629330

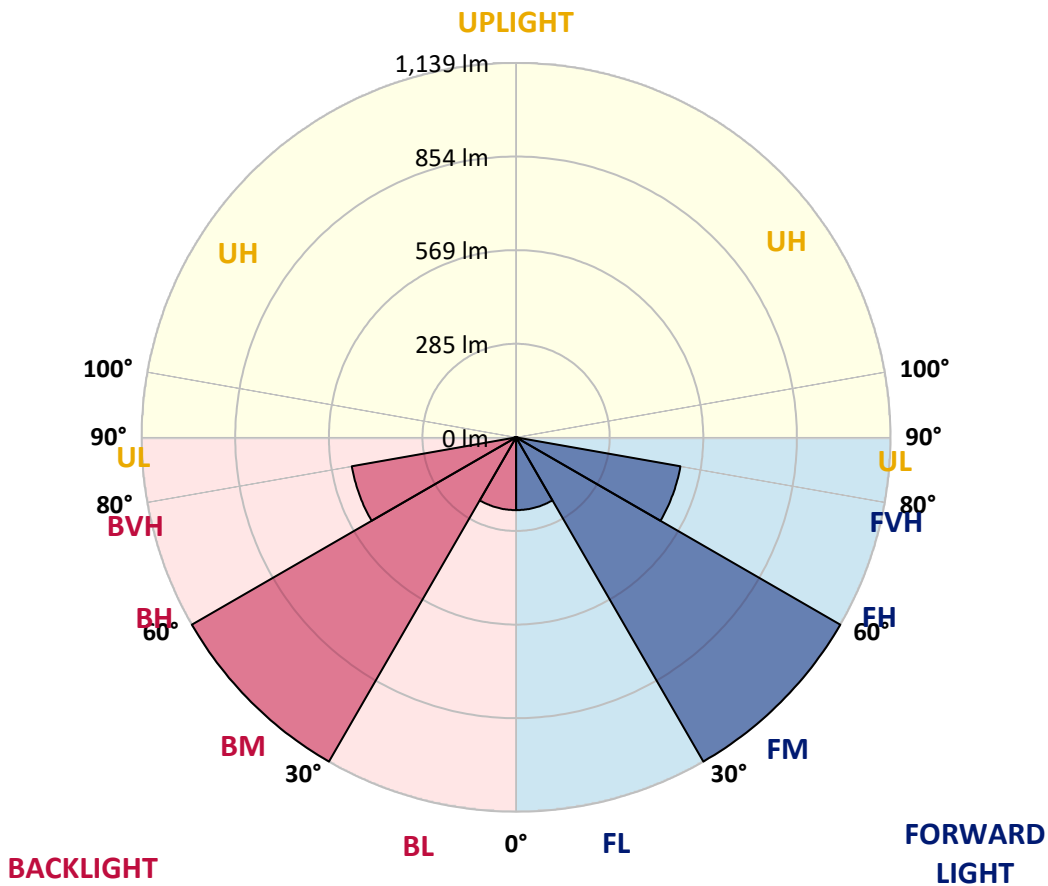
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 221.4 | 5.9 | | | |
| FM (30°-60°) | 1138.9 | 30.4 | | | |
| FH (60°-80°) | 507.5 | 13.5 | | | G0/660 |
| FVH (80°-90°) | 5.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 221.4 | 5.9 | B1/500 | | |
| BM (30°-60°) | 1138.9 | 30.4 | B2/2500 | | |
| BH (60°-80°) | 507.5 | 13.5 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 5.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 | 437.0 |
| 2.5° | 436.5 | 436.5 | 437.5 | 438.3 | 437.8 | 439.8 | 439.6 | 439.1 | 438.8 | 438.0 | 440.4 |
| 5° | 442.4 | 442.4 | 443.2 | 444.0 | 442.7 | 445.2 | 444.2 | 443.7 | 443.4 | 442.4 | 444.5 |
| 7.5° | 449.1 | 449.9 | 450.1 | 451.4 | 450.6 | 453.5 | 452.7 | 451.7 | 451.2 | 449.9 | 451.7 |
| 10° | 456.5 | 457.1 | 457.3 | 459.6 | 459.9 | 463.2 | 462.5 | 461.2 | 460.1 | 458.9 | 461.4 |
| 12.5° | 466.6 | 466.8 | 467.6 | 470.4 | 471.2 | 473.8 | 473.5 | 471.7 | 470.4 | 468.6 | 471.4 |
| 15° | 479.4 | 479.7 | 481.0 | 483.8 | 485.1 | 488.1 | 487.1 | 484.3 | 482.5 | 480.4 | 482.8 |
| 17.5° | 492.8 | 493.8 | 495.1 | 497.9 | 499.7 | 503.3 | 502.0 | 498.9 | 497.4 | 495.3 | 496.9 |
| 20° | 510.0 | 510.2 | 511.0 | 514.1 | 515.4 | 519.5 | 519.7 | 516.7 | 515.9 | 513.8 | 516.2 |
| 22.5° | 529.0 | 529.3 | 530.0 | 533.4 | 535.7 | 538.2 | 539.8 | 538.0 | 536.7 | 534.1 | 537.0 |
| 25° | 550.1 | 552.6 | 553.4 | 557.5 | 560.1 | 561.6 | 563.4 | 562.7 | 560.9 | 557.8 | 559.1 |
| 27.5° | 579.6 | 580.1 | 581.4 | 586.0 | 587.6 | 589.1 | 590.9 | 591.2 | 588.6 | 585.0 | 586.8 |
| 30° | 613.3 | 613.0 | 615.8 | 619.4 | 620.7 | 622.0 | 624.6 | 626.1 | 622.8 | 618.9 | 620.7 |
| 32.5° | 647.7 | 650.8 | 654.4 | 657.7 | 656.9 | 657.5 | 661.6 | 664.4 | 659.8 | 652.8 | 654.4 |
| 35° | 686.5 | 688.5 | 693.2 | 698.1 | 697.0 | 696.3 | 698.8 | 701.6 | 695.2 | 686.2 | 688.5 |
| 37.5° | 726.3 | 729.4 | 736.3 | 742.2 | 740.7 | 737.1 | 739.9 | 743.0 | 736.8 | 726.6 | 725.5 |
| 40° | 770.8 | 775.6 | 785.7 | 790.5 | 786.4 | 779.5 | 784.4 | 791.8 | 785.7 | 773.8 | 771.0 |
| 42.5° | 822.9 | 828.8 | 838.8 | 846.3 | 837.3 | 826.0 | 834.2 | 845.0 | 843.5 | 827.8 | 822.9 |
| 45° | 887.4 | 891.3 | 903.6 | 907.2 | 893.8 | 878.2 | 893.1 | 909.5 | 905.6 | 888.7 | 882.3 |
| 47.5° | 957.5 | 963.5 | 974.2 | 980.9 | 959.3 | 939.8 | 960.6 | 982.7 | 978.6 | 962.7 | 955.2 |
| 50° | 1047.0 | 1054.7 | 1068.8 | 1074.4 | 1044.6 | 1022.3 | 1049.0 | 1077.0 | 1069.0 | 1047.7 | 1038.0 |
| 52.5° | 1144.3 | 1150.5 | 1174.6 | 1185.9 | 1157.9 | 1133.8 | 1157.2 | 1184.7 | 1167.7 | 1139.4 | 1126.3 |
| 55° | 1230.1 | 1236.3 | 1271.8 | 1309.3 | 1308.0 | 1291.3 | 1303.1 | 1303.6 | 1257.6 | 1210.9 | 1197.0 |
| 57.5° | 1248.6 | 1254.8 | 1322.4 | 1420.5 | 1489.9 | 1509.1 | 1474.5 | 1401.5 | 1285.6 | 1203.7 | 1188.0 |
| 60° | 1150.0 | 1156.9 | 1264.3 | 1443.6 | 1671.8 | 1800.5 | 1640.7 | 1399.4 | 1199.0 | 1088.1 | 1073.2 |
| 62.5° | 891.0 | 898.5 | 1042.8 | 1312.1 | 1745.3 | 2092.1 | 1689.0 | 1252.2 | 986.3 | 845.8 | 832.7 |
| 65° | 425.5 | 425.5 | 608.9 | 941.1 | 1598.8 | 2085.2 | 1549.2 | 926.5 | 593.7 | 456.0 | 444.7 |
| 67.5° | 105.3 | 105.9 | 156.7 | 366.4 | 1087.5 | 1664.1 | 1105.3 | 444.7 | 209.1 | 148.0 | 144.1 |
| 70° | 65.8 | 65.5 | 72.7 | 99.2 | 380.5 | 1010.0 | 451.9 | 134.1 | 85.0 | 75.0 | 74.5 |
| 72.5° | 51.1 | 51.1 | 54.7 | 63.5 | 99.7 | 344.0 | 131.8 | 74.5 | 61.7 | 55.5 | 55.5 |
| 75° | 40.3 | 40.3 | 42.9 | 47.5 | 58.8 | 88.6 | 70.1 | 55.2 | 47.8 | 43.7 | 43.2 |
| 77.5° | 30.1 | 30.6 | 32.6 | 35.7 | 40.1 | 49.8 | 44.4 | 41.6 | 37.3 | 34.2 | 33.1 |
| 80° | 19.5 | 20.3 | 22.9 | 24.7 | 26.2 | 32.9 | 29.0 | 30.3 | 28.3 | 24.7 | 24.2 |
| 82.5° | 10.5 | 10.8 | 13.9 | 14.4 | 14.9 | 18.0 | 18.5 | 19.3 | 20.0 | 15.7 | 14.6 |
| 85° | 3.9 | 3.9 | 4.6 | 5.4 | 5.9 | 6.4 | 8.7 | 10.8 | 11.3 | 9.0 | 8.7 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 1.5 | 2.8 | 4.6 | 3.6 | 3.6 |
| 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)