

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: P640768

Luminaire Tested: GWS-SA5E-750-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640768
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-SA5E-750-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40136.6 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

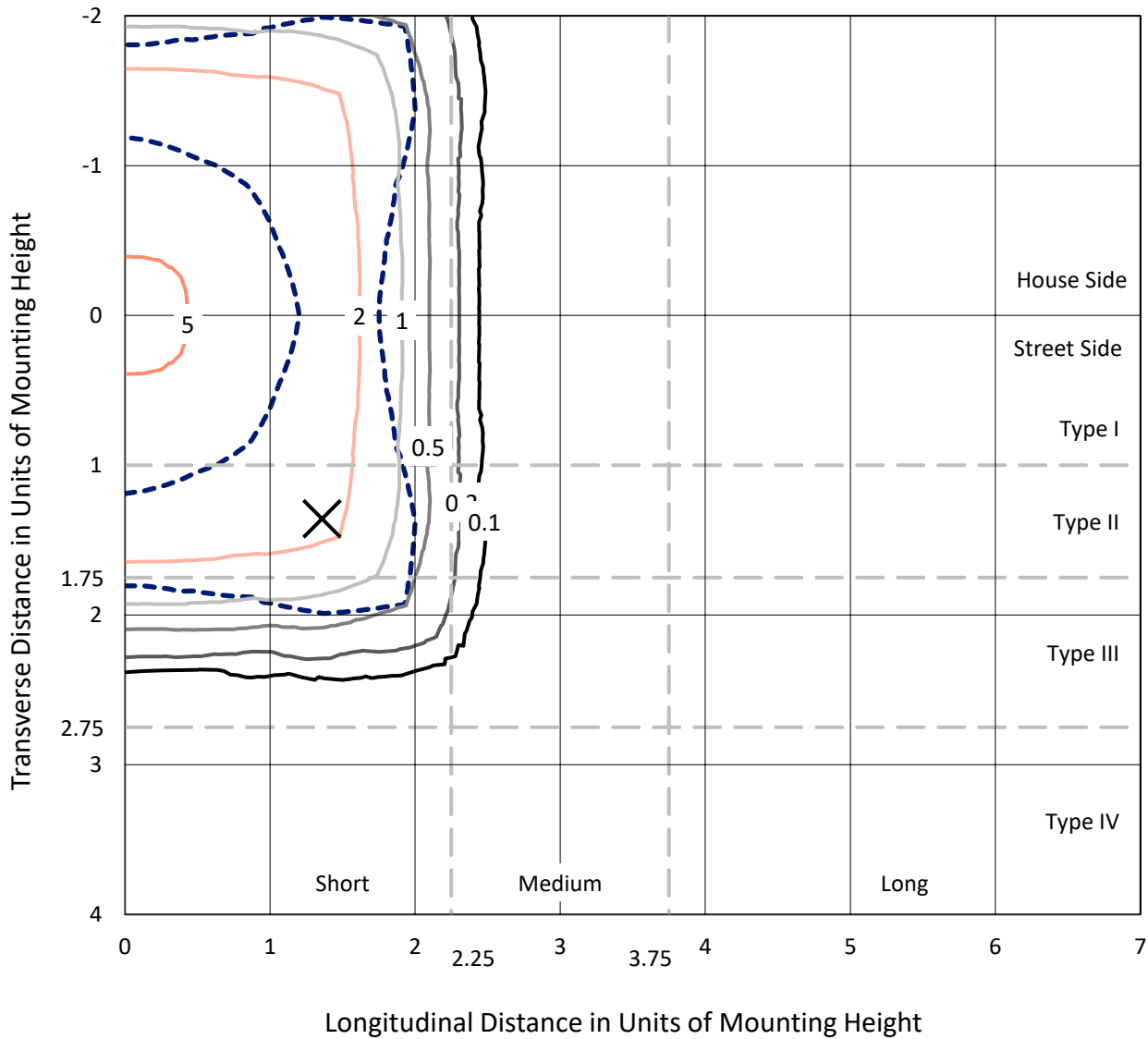
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

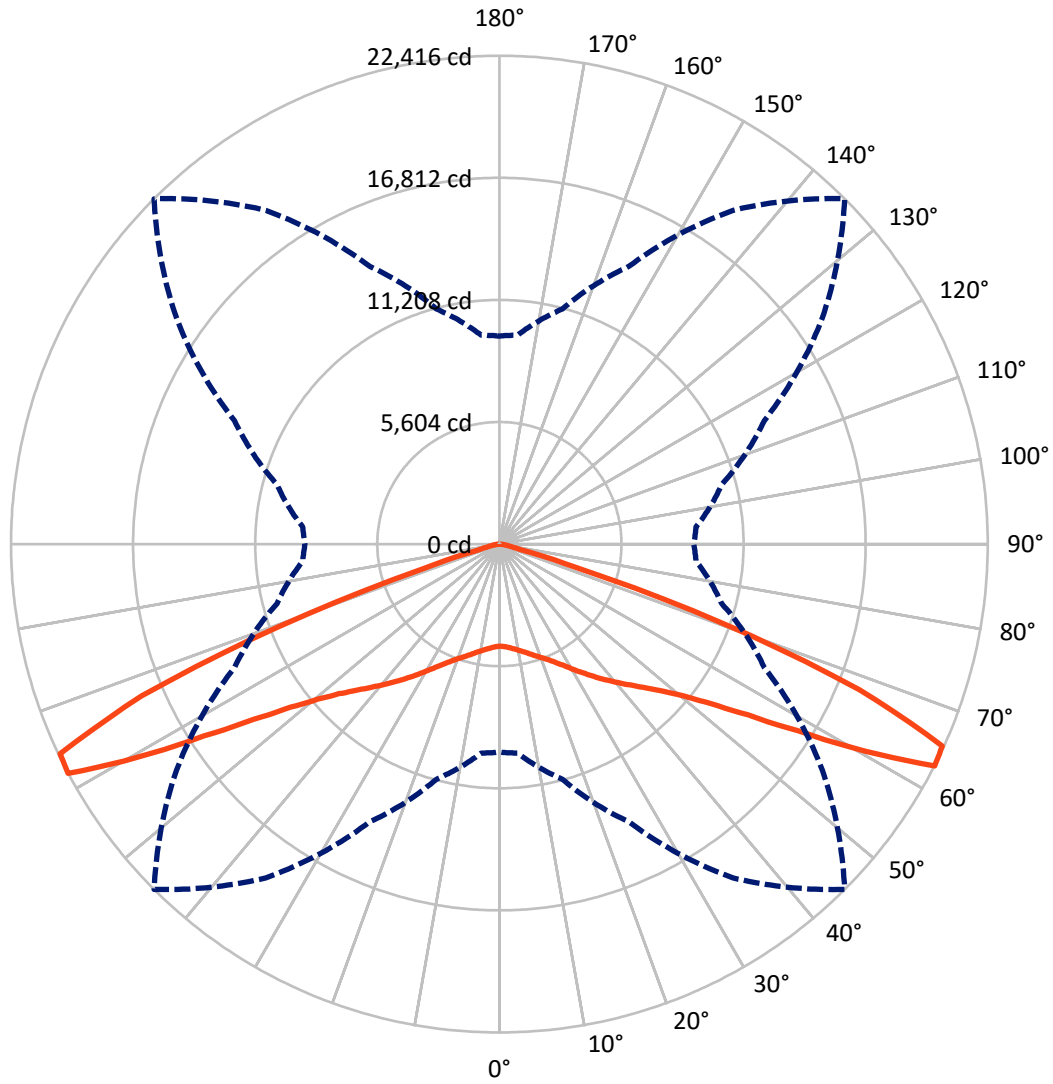
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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 | 20068.3 | 0.0 | 20068.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20068.3 | 0.0 | 20068.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40136.6 | 0.0 | 40136.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 459.4 | 1.1 |
| 10°-20° | 1481.5 | 3.7 |
| 20°-30° | 2802.9 | 7.0 |
| 30°-40° | 4717.7 | 11.8 |
| 40°-50° | 7537.5 | 18.8 |
| 50°-60° | 12150.0 | 30.3 |
| 60°-70° | 9913.0 | 24.7 |
| 70°-80° | 962.6 | 2.4 |
| 80°-90° | 112.0 | 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° | 40136.6 | 100.0 |
| 0°-180° | 40136.6 | 100.0 |

Coefficient of Utilization



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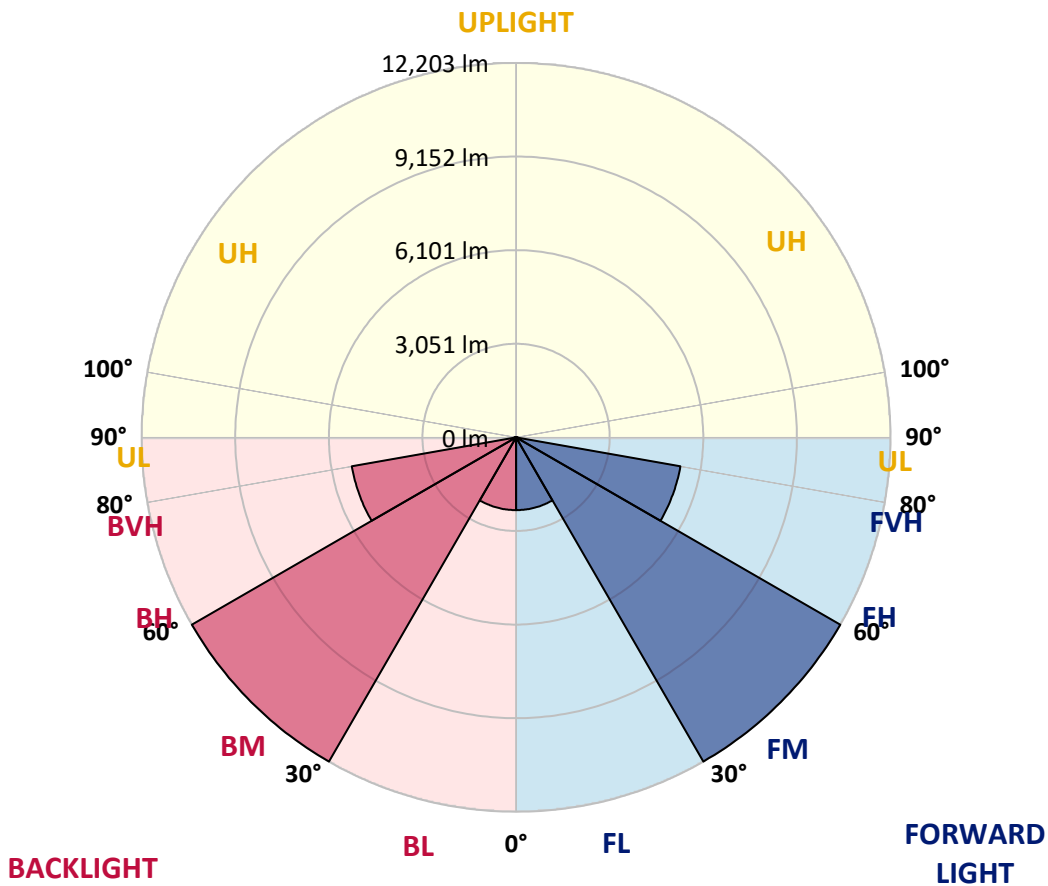
CATALOG NUMBER: GWS-SA5E-750-U-5NQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2371.9 | 5.9 | | | |
| FM (30°-60°) | 12202.6 | 30.4 | | | |
| FH (60°-80°) | 5437.8 | 13.5 | | | G3/7500 |
| FVH (80°-90°) | 56.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2371.9 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 12202.6 | 30.4 | B5 | | |
| BH (60°-80°) | 5437.8 | 13.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 56.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 | 4682.5 |
| 2.5° | 4677.0 | 4677.0 | 4688.0 | 4696.2 | 4690.7 | 4712.8 | 4710.0 | 4704.5 | 4701.7 | 4693.5 | 4718.3 |
| 5° | 4740.3 | 4740.3 | 4748.5 | 4756.8 | 4743.0 | 4770.6 | 4759.6 | 4754.0 | 4751.3 | 4740.3 | 4762.3 |
| 7.5° | 4811.9 | 4820.1 | 4822.9 | 4836.6 | 4828.4 | 4858.7 | 4850.4 | 4839.4 | 4833.9 | 4820.1 | 4839.4 |
| 10° | 4891.7 | 4897.2 | 4899.9 | 4924.7 | 4927.5 | 4963.3 | 4955.0 | 4941.2 | 4930.2 | 4916.5 | 4944.0 |
| 12.5° | 4999.0 | 5001.8 | 5010.1 | 5040.3 | 5048.6 | 5076.1 | 5073.4 | 5054.1 | 5040.3 | 5021.1 | 5051.3 |
| 15° | 5136.7 | 5139.4 | 5153.2 | 5183.5 | 5197.2 | 5230.3 | 5219.3 | 5189.0 | 5169.7 | 5147.7 | 5172.5 |
| 17.5° | 5279.8 | 5290.8 | 5304.6 | 5334.9 | 5354.2 | 5392.7 | 5378.9 | 5345.9 | 5329.4 | 5307.4 | 5323.9 |
| 20° | 5464.3 | 5467.0 | 5475.3 | 5508.3 | 5522.1 | 5566.1 | 5568.9 | 5535.8 | 5527.6 | 5505.6 | 5530.3 |
| 22.5° | 5668.0 | 5670.7 | 5679.0 | 5714.8 | 5739.5 | 5767.1 | 5783.6 | 5764.3 | 5750.6 | 5723.0 | 5753.3 |
| 25° | 5893.7 | 5921.2 | 5929.5 | 5973.5 | 6001.1 | 6017.6 | 6036.8 | 6028.6 | 6009.3 | 5976.3 | 5990.0 |
| 27.5° | 6210.3 | 6215.8 | 6229.5 | 6279.1 | 6295.6 | 6312.1 | 6331.4 | 6334.1 | 6306.6 | 6268.1 | 6287.3 |
| 30° | 6570.9 | 6568.1 | 6598.4 | 6636.9 | 6650.7 | 6664.5 | 6692.0 | 6708.5 | 6672.7 | 6631.4 | 6650.7 |
| 32.5° | 6939.8 | 6972.8 | 7011.3 | 7047.1 | 7038.9 | 7044.4 | 7088.4 | 7118.7 | 7069.1 | 6994.8 | 7011.3 |
| 35° | 7355.4 | 7377.4 | 7427.0 | 7479.3 | 7468.3 | 7460.0 | 7487.6 | 7517.8 | 7449.0 | 7352.7 | 7377.4 |
| 37.5° | 7782.1 | 7815.1 | 7889.5 | 7952.8 | 7936.3 | 7897.7 | 7928.0 | 7961.0 | 7895.0 | 7784.9 | 7773.8 |
| 40° | 8258.3 | 8310.6 | 8418.0 | 8470.3 | 8426.3 | 8351.9 | 8404.2 | 8484.1 | 8418.0 | 8291.4 | 8261.1 |
| 42.5° | 8817.1 | 8880.5 | 8987.8 | 9067.7 | 8971.3 | 8850.2 | 8938.3 | 9053.9 | 9037.4 | 8869.5 | 8817.1 |
| 45° | 9508.1 | 9549.4 | 9681.5 | 9720.1 | 9576.9 | 9409.0 | 9568.7 | 9744.8 | 9703.5 | 9521.9 | 9453.0 |
| 47.5° | 10259.6 | 10322.9 | 10438.5 | 10510.1 | 10278.9 | 10069.7 | 10292.6 | 10529.4 | 10485.3 | 10314.7 | 10234.8 |
| 50° | 11217.6 | 11300.2 | 11451.6 | 11512.1 | 11192.8 | 10953.3 | 11239.6 | 11539.6 | 11454.3 | 11225.8 | 11121.2 |
| 52.5° | 12260.9 | 12326.9 | 12585.7 | 12706.8 | 12406.8 | 12148.0 | 12398.5 | 12693.1 | 12511.4 | 12208.6 | 12068.2 |
| 55° | 13180.3 | 13246.4 | 13626.3 | 14028.2 | 14014.4 | 13835.5 | 13962.1 | 13967.6 | 13474.8 | 12973.8 | 12825.2 |
| 57.5° | 13378.5 | 13444.6 | 14168.5 | 15220.1 | 15963.4 | 16169.8 | 15798.2 | 15016.4 | 13774.9 | 12896.8 | 12728.8 |
| 60° | 12321.4 | 12395.8 | 13546.4 | 15467.9 | 17912.3 | 19291.5 | 17579.2 | 14994.4 | 12847.2 | 11658.0 | 11498.4 |
| 62.5° | 9546.6 | 9626.5 | 11173.5 | 14058.4 | 18699.6 | 22415.9 | 18096.8 | 13417.0 | 10567.9 | 9062.1 | 8921.8 |
| 65° | 4558.6 | 4558.6 | 6524.1 | 10083.4 | 17130.5 | 22341.5 | 16599.3 | 9926.5 | 6361.7 | 4886.2 | 4765.1 |
| 67.5° | 1128.6 | 1134.1 | 1679.2 | 3925.5 | 11652.5 | 17829.7 | 11842.5 | 4765.1 | 2240.8 | 1585.6 | 1544.3 |
| 70° | 704.7 | 702.0 | 779.0 | 1062.6 | 4076.9 | 10821.2 | 4842.1 | 1437.0 | 911.2 | 803.8 | 798.3 |
| 72.5° | 547.8 | 547.8 | 586.3 | 679.9 | 1068.1 | 3686.0 | 1412.2 | 798.3 | 660.7 | 594.6 | 594.6 |
| 75° | 432.2 | 432.2 | 459.7 | 509.3 | 630.4 | 949.7 | 751.5 | 591.8 | 512.0 | 468.0 | 462.5 |
| 77.5° | 322.1 | 327.6 | 349.6 | 382.6 | 429.4 | 534.0 | 476.2 | 446.0 | 399.2 | 366.1 | 355.1 |
| 80° | 209.2 | 217.5 | 245.0 | 264.3 | 280.8 | 352.4 | 311.1 | 324.8 | 302.8 | 264.3 | 258.8 |
| 82.5° | 112.9 | 115.6 | 148.7 | 154.2 | 159.7 | 192.7 | 198.2 | 206.5 | 214.7 | 167.9 | 156.9 |
| 85° | 41.3 | 41.3 | 49.6 | 57.8 | 63.3 | 68.8 | 93.6 | 115.6 | 121.1 | 96.3 | 93.6 |
| 87.5° | 8.3 | 8.3 | 8.3 | 5.5 | 5.5 | 5.5 | 16.5 | 30.3 | 49.6 | 38.5 | 38.5 |
| 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)