

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: P640658

Luminaire Tested: GWS-SA5E-735-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640658
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-735-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38699.6 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

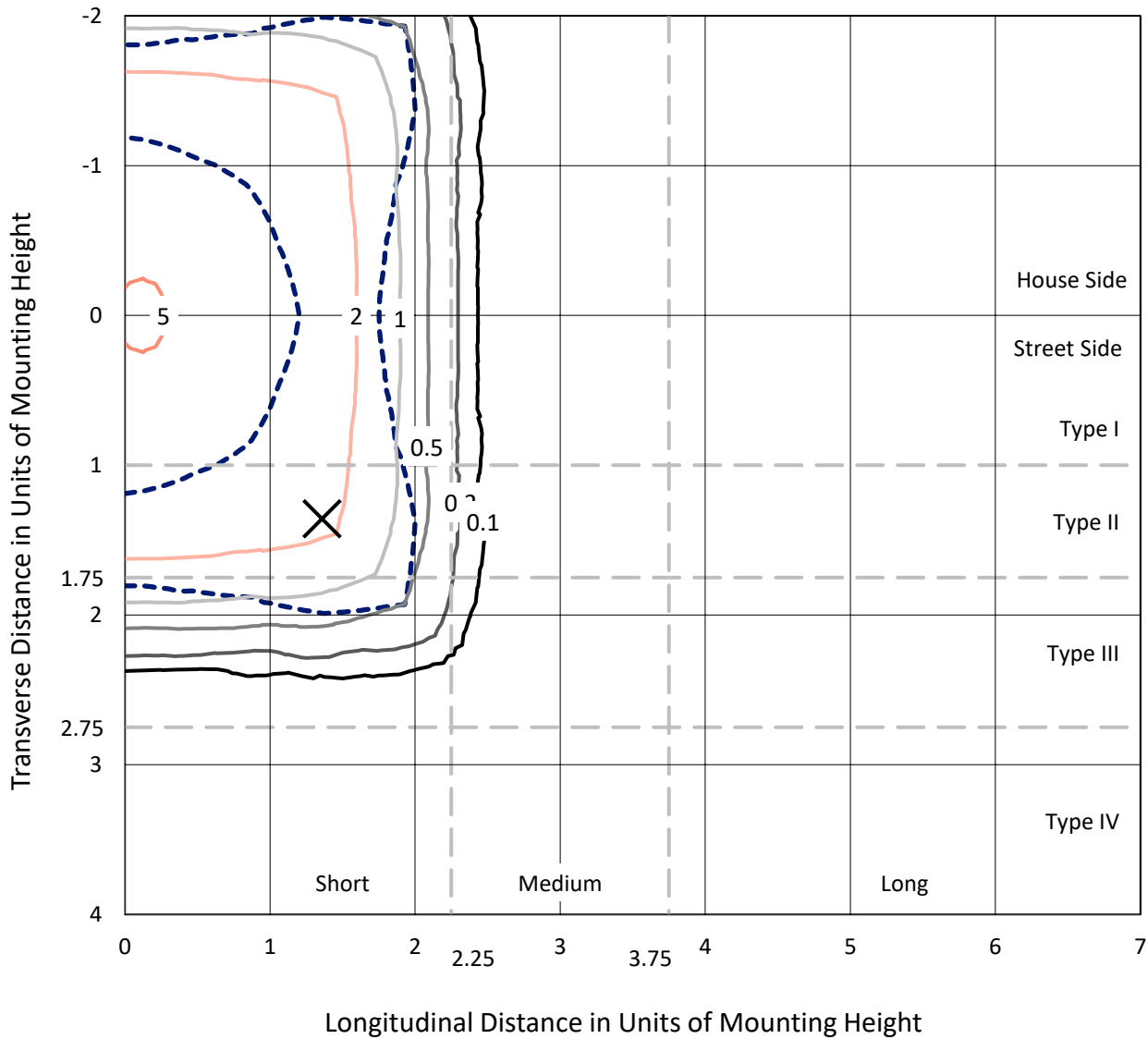
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640658
 CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W

Iso-Footcandle Lines of Horizontal Illumination

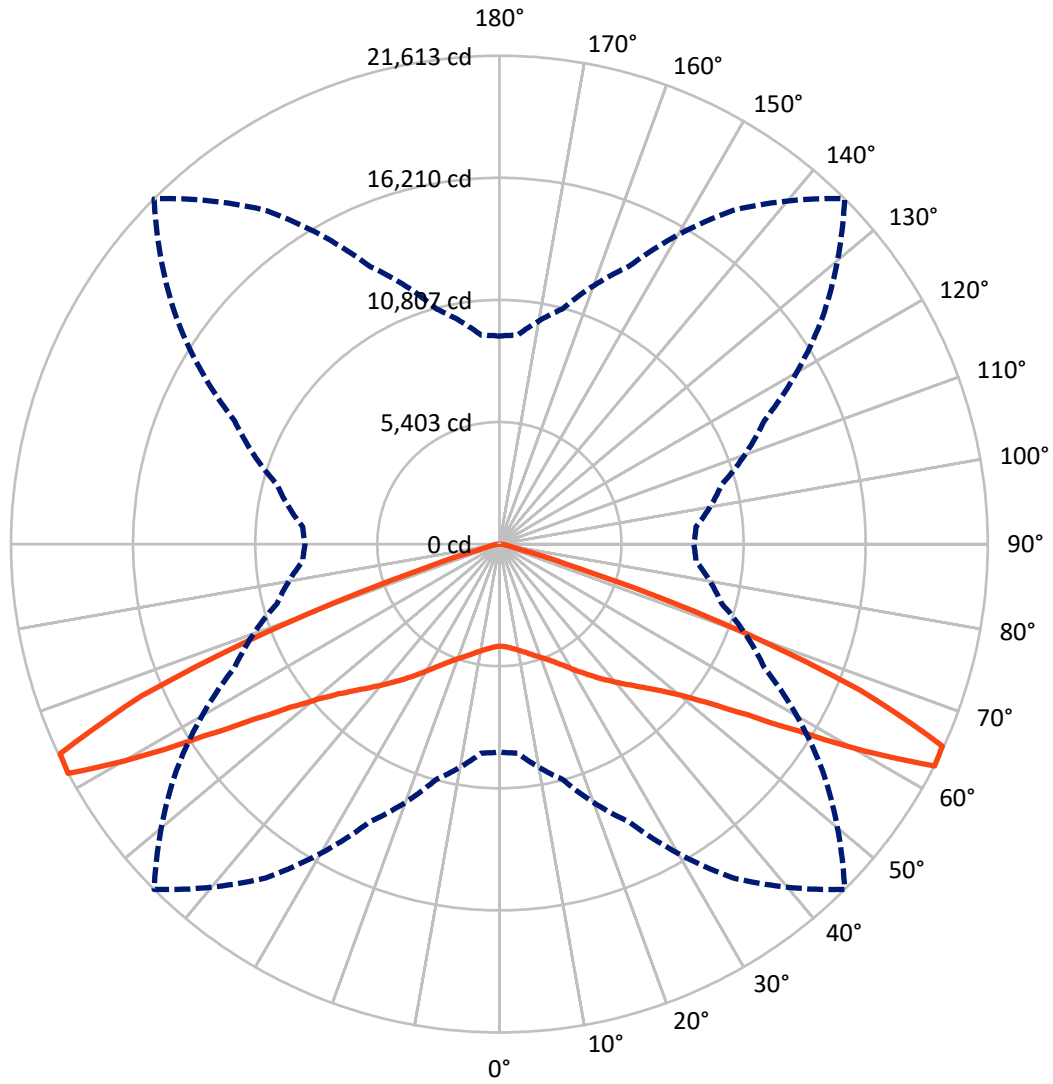
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P640658
CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640658

CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19349.8 | 0.0 | 19349.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19349.8 | 0.0 | 19349.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38699.6 | 0.0 | 38699.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 443.0 | 1.1 |
| 10°-20° | 1428.5 | 3.7 |
| 20°-30° | 2702.5 | 7.0 |
| 30°-40° | 4548.8 | 11.8 |
| 40°-50° | 7267.6 | 18.8 |
| 50°-60° | 11715.0 | 30.3 |
| 60°-70° | 9558.1 | 24.7 |
| 70°-80° | 928.2 | 2.4 |
| 80°-90° | 108.0 | 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° | 38699.6 | 100.0 |
| 0°-180° | 38699.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P640658

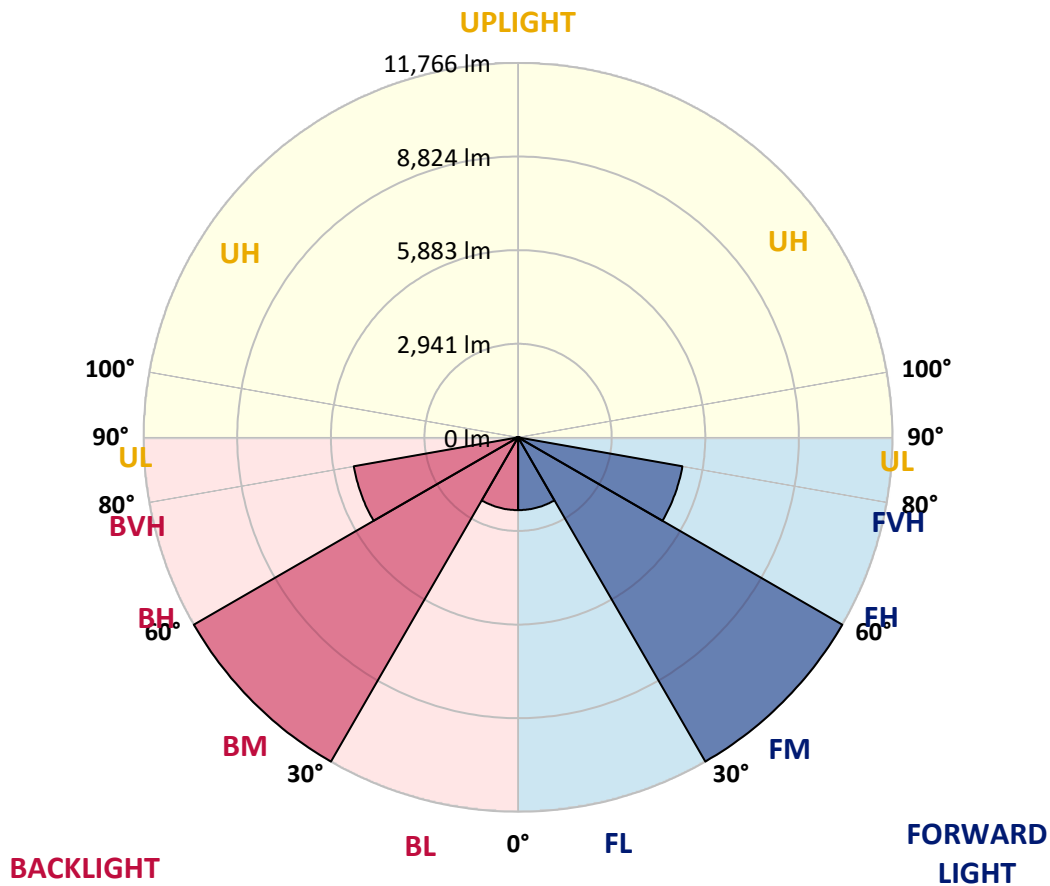
CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2287.0 | 5.9 | | | |
| FM (30°-60°) | 11765.7 | 30.4 | | | |
| FH (60°-80°) | 5243.1 | 13.5 | | | G3/7500 |
| FVH (80°-90°) | 54.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2287.0 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 11765.7 | 30.4 | B5 | | |
| BH (60°-80°) | 5243.1 | 13.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 54.0 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 </tr | | | |

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P640658
 CATALOG NUMBER: GWS-SA5E-735-U-5NQ-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 | 4514.8 |
| 2.5° | 4509.5 | 4509.5 | 4520.1 | 4528.1 | 4522.8 | 4544.0 | 4541.4 | 4536.1 | 4533.4 | 4525.4 | 4549.3 |
| 5° | 4570.6 | 4570.6 | 4578.5 | 4586.5 | 4573.2 | 4599.8 | 4589.1 | 4583.8 | 4581.2 | 4570.6 | 4591.8 |
| 7.5° | 4639.6 | 4647.5 | 4650.2 | 4663.5 | 4655.5 | 4684.7 | 4676.7 | 4666.1 | 4660.8 | 4647.5 | 4666.1 |
| 10° | 4716.6 | 4721.9 | 4724.5 | 4748.4 | 4751.1 | 4785.6 | 4777.6 | 4764.3 | 4753.7 | 4740.4 | 4767.0 |
| 12.5° | 4820.1 | 4822.7 | 4830.7 | 4859.9 | 4867.8 | 4894.4 | 4891.7 | 4873.2 | 4859.9 | 4841.3 | 4870.5 |
| 15° | 4952.8 | 4955.4 | 4968.7 | 4997.9 | 5011.2 | 5043.0 | 5032.4 | 5003.2 | 4984.6 | 4963.4 | 4987.3 |
| 17.5° | 5090.8 | 5101.4 | 5114.7 | 5143.9 | 5162.5 | 5199.6 | 5186.3 | 5154.5 | 5138.6 | 5117.3 | 5133.3 |
| 20° | 5268.6 | 5271.3 | 5279.2 | 5311.1 | 5324.4 | 5366.8 | 5369.5 | 5337.6 | 5329.7 | 5308.4 | 5332.3 |
| 22.5° | 5465.0 | 5467.7 | 5475.7 | 5510.2 | 5534.1 | 5560.6 | 5576.5 | 5557.9 | 5544.7 | 5518.1 | 5547.3 |
| 25° | 5682.7 | 5709.2 | 5717.2 | 5759.7 | 5786.2 | 5802.1 | 5820.7 | 5812.7 | 5794.2 | 5762.3 | 5775.6 |
| 27.5° | 5987.9 | 5993.2 | 6006.5 | 6054.3 | 6070.2 | 6086.1 | 6104.7 | 6107.4 | 6080.8 | 6043.7 | 6062.2 |
| 30° | 6335.6 | 6333.0 | 6362.2 | 6399.3 | 6412.6 | 6425.9 | 6452.4 | 6468.3 | 6433.8 | 6394.0 | 6412.6 |
| 32.5° | 6691.3 | 6723.1 | 6760.3 | 6794.8 | 6786.8 | 6792.2 | 6834.6 | 6863.8 | 6816.0 | 6744.4 | 6760.3 |
| 35° | 7092.1 | 7113.3 | 7161.1 | 7211.5 | 7200.9 | 7192.9 | 7219.5 | 7248.7 | 7182.3 | 7089.4 | 7113.3 |
| 37.5° | 7503.5 | 7535.3 | 7607.0 | 7668.0 | 7652.1 | 7615.0 | 7644.2 | 7676.0 | 7612.3 | 7506.1 | 7495.5 |
| 40° | 7962.7 | 8013.1 | 8116.6 | 8167.0 | 8124.6 | 8052.9 | 8103.3 | 8180.3 | 8116.6 | 7994.5 | 7965.3 |
| 42.5° | 8501.5 | 8562.5 | 8666.0 | 8743.0 | 8650.1 | 8533.3 | 8618.3 | 8729.7 | 8713.8 | 8551.9 | 8501.5 |
| 45° | 9167.7 | 9207.5 | 9334.9 | 9372.1 | 9234.0 | 9072.1 | 9226.1 | 9395.9 | 9356.1 | 9181.0 | 9114.6 |
| 47.5° | 9892.3 | 9953.3 | 10064.8 | 10133.8 | 9910.9 | 9709.1 | 9924.1 | 10152.4 | 10109.9 | 9945.4 | 9868.4 |
| 50° | 10816.0 | 10895.6 | 11041.6 | 11100.0 | 10792.1 | 10561.1 | 10837.2 | 11126.5 | 11044.2 | 10823.9 | 10723.1 |
| 52.5° | 11821.9 | 11885.6 | 12135.1 | 12251.9 | 11962.6 | 11713.1 | 11954.6 | 12238.6 | 12063.4 | 11771.5 | 11636.1 |
| 55° | 12708.4 | 12772.1 | 13138.4 | 13525.9 | 13512.6 | 13340.1 | 13462.2 | 13467.5 | 12992.4 | 12509.3 | 12366.0 |
| 57.5° | 12899.5 | 12963.2 | 13661.3 | 14675.2 | 15391.8 | 15590.9 | 15232.6 | 14478.8 | 13281.7 | 12435.0 | 12273.1 |
| 60° | 11880.3 | 11952.0 | 13061.4 | 14914.1 | 17271.0 | 18600.8 | 16949.9 | 14457.5 | 12387.3 | 11240.6 | 11086.7 |
| 62.5° | 9204.8 | 9281.8 | 10773.5 | 13555.1 | 18030.1 | 21613.3 | 17448.8 | 12936.7 | 10189.6 | 8737.7 | 8602.3 |
| 65° | 4395.4 | 4395.4 | 6290.5 | 9722.4 | 16517.2 | 21541.7 | 16005.0 | 9571.1 | 6133.9 | 4711.2 | 4594.5 |
| 67.5° | 1088.2 | 1093.5 | 1619.1 | 3784.9 | 11235.3 | 17191.4 | 11418.5 | 4594.5 | 2160.5 | 1528.8 | 1489.0 |
| 70° | 679.5 | 676.8 | 751.1 | 1024.5 | 3930.9 | 10433.7 | 4668.8 | 1385.5 | 878.5 | 775.0 | 769.7 |
| 72.5° | 528.2 | 528.2 | 565.3 | 655.6 | 1029.8 | 3554.0 | 1361.6 | 769.7 | 637.0 | 573.3 | 573.3 |
| 75° | 416.7 | 416.7 | 443.3 | 491.0 | 607.8 | 915.7 | 724.6 | 570.7 | 493.7 | 451.2 | 445.9 |
| 77.5° | 310.5 | 315.9 | 337.1 | 368.9 | 414.1 | 514.9 | 459.2 | 430.0 | 384.9 | 353.0 | 342.4 |
| 80° | 201.7 | 209.7 | 236.2 | 254.8 | 270.7 | 339.7 | 299.9 | 313.2 | 292.0 | 254.8 | 249.5 |
| 82.5° | 108.8 | 111.5 | 143.3 | 148.6 | 153.9 | 185.8 | 191.1 | 199.1 | 207.0 | 161.9 | 151.3 |
| 85° | 39.8 | 39.8 | 47.8 | 55.7 | 61.0 | 66.4 | 90.2 | 111.5 | 116.8 | 92.9 | 90.2 |
| 87.5° | 8.0 | 8.0 | 8.0 | 5.3 | 5.3 | 5.3 | 15.9 | 29.2 | 47.8 | 37.2 | 37.2 |
| 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)