

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: P635209

Luminaire Tested: GWS-SA3D-735-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-735-U-5MQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15197.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

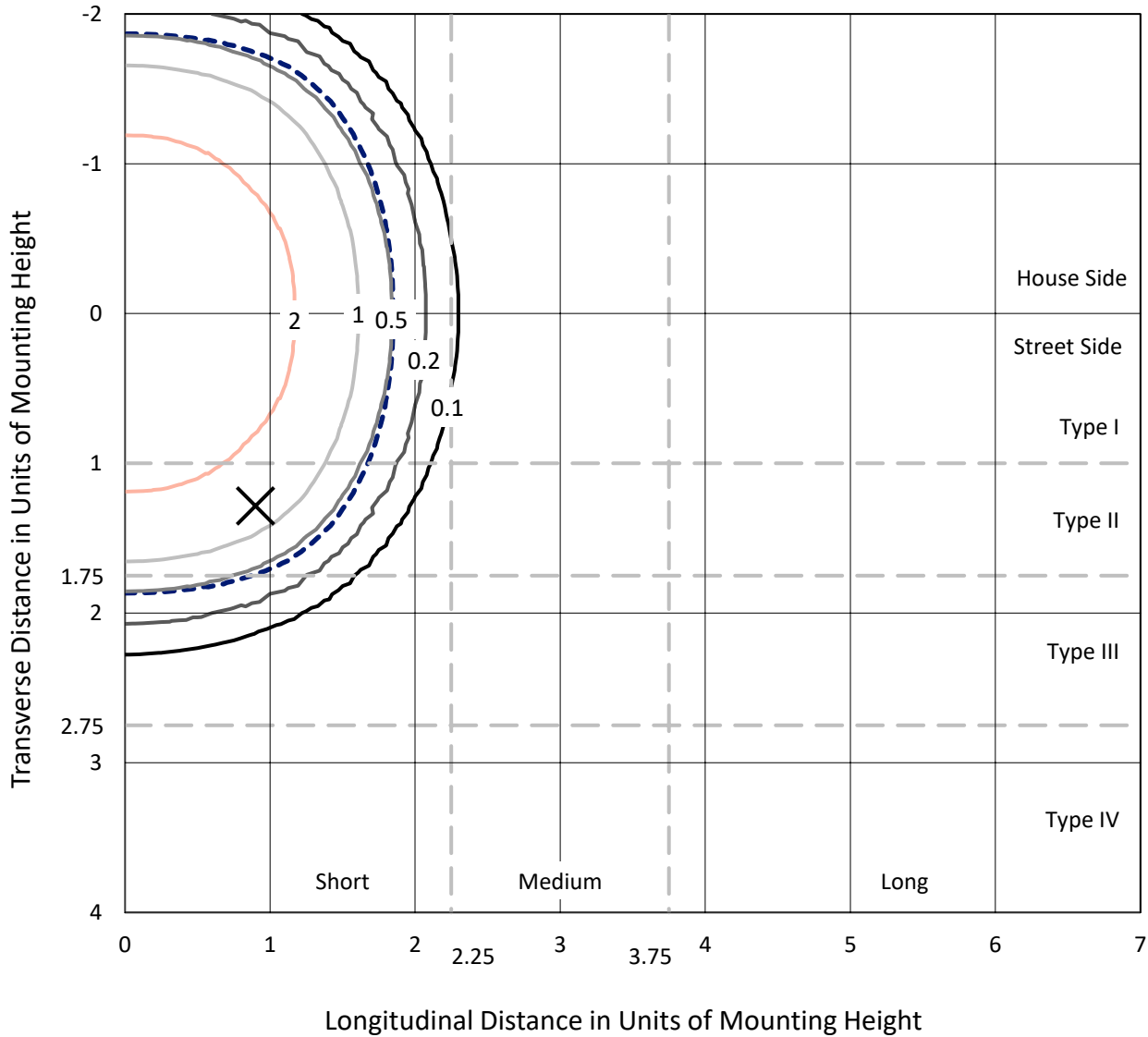
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

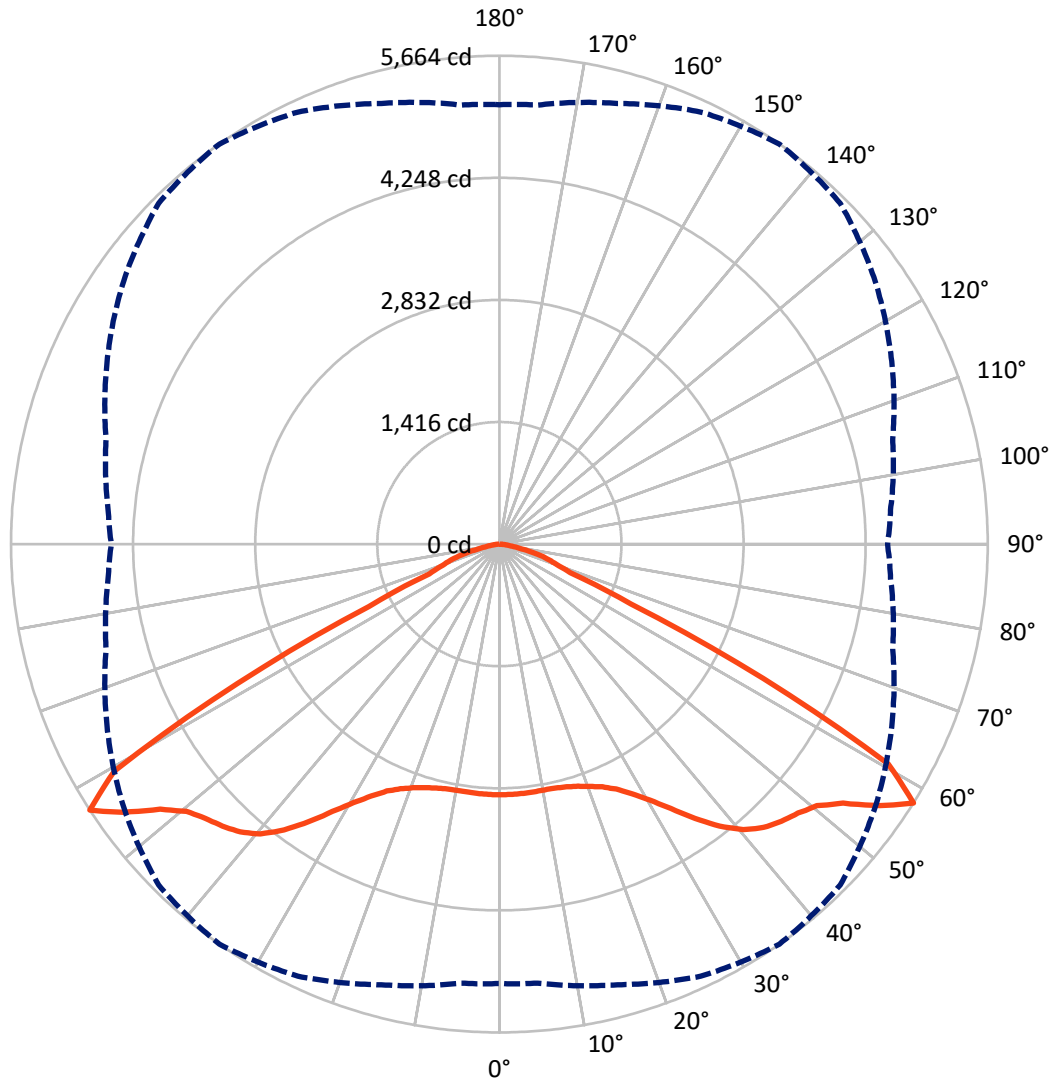
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7598.8 | 0.0 | 7598.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7598.8 | 0.0 | 7598.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15197.5 | 0.0 | 15197.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.6 | 1.8 |
| 10°-20° | 825.3 | 5.4 |
| 20°-30° | 1440.1 | 9.5 |
| 30°-40° | 2361.4 | 15.5 |
| 40°-50° | 3477.8 | 22.9 |
| 50°-60° | 4438.2 | 29.2 |
| 60°-70° | 1870.5 | 12.3 |
| 70°-80° | 446.8 | 2.9 |
| 80°-90° | 60.8 | 0.4 |
| 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° | 15197.5 | 100.0 |
| 0°-180° | 15197.5 | 100.0 |

Coefficient of Utilization



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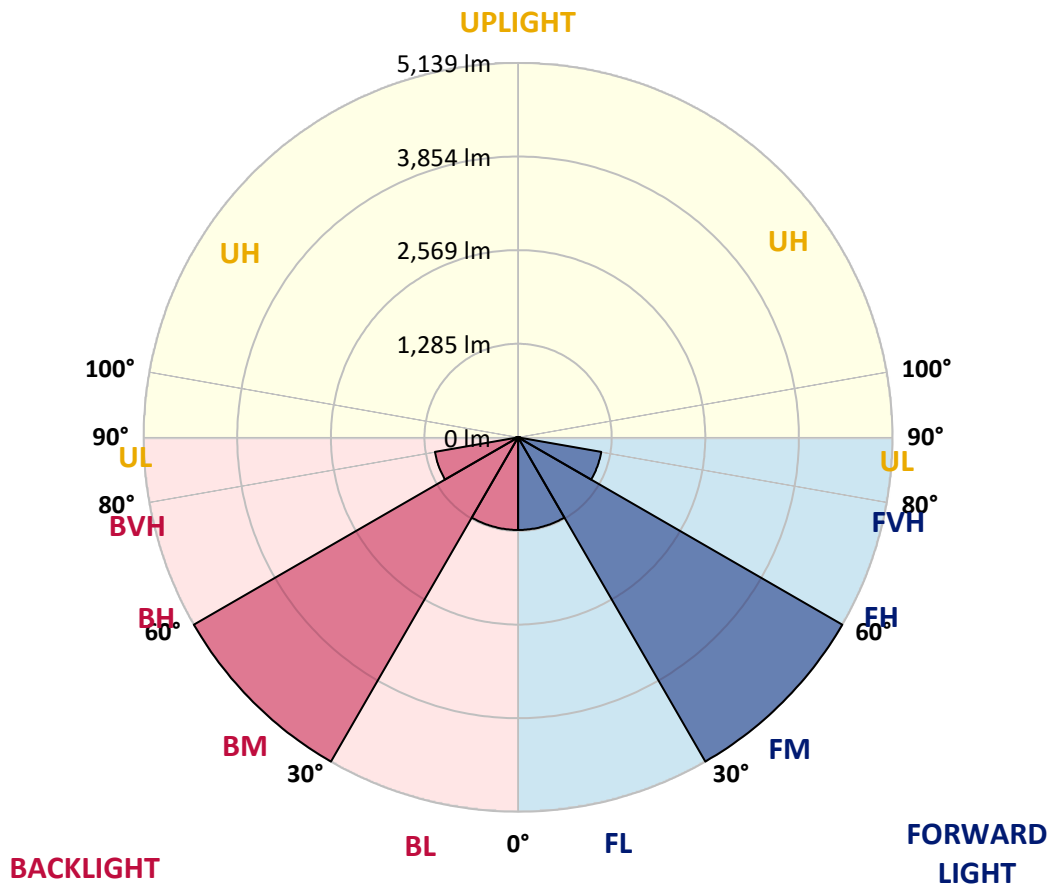
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1271.0 | 8.4 | | | |
| FM (30°-60°) | 5138.7 | 33.8 | | | |
| FH (60°-80°) | 1158.6 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 30.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1271.0 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 5138.7 | 33.8 | B4/8500 | | |
| BH (60°-80°) | 1158.6 | 7.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 30.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 | 2907.9 |
| 2.5° | 2890.4 | 2890.4 | 2896.7 | 2902.9 | 2905.4 | 2916.6 | 2915.3 | 2911.6 | 2909.1 | 2901.6 | 2911.6 |
| 5° | 2896.7 | 2896.7 | 2901.6 | 2905.4 | 2904.1 | 2912.8 | 2909.1 | 2902.9 | 2899.2 | 2891.7 | 2902.9 |
| 7.5° | 2895.4 | 2895.4 | 2899.2 | 2902.9 | 2900.4 | 2907.9 | 2901.6 | 2892.9 | 2886.7 | 2879.2 | 2889.2 |
| 10° | 2879.2 | 2881.7 | 2885.5 | 2894.2 | 2897.9 | 2909.1 | 2900.4 | 2886.7 | 2876.8 | 2868.1 | 2878.0 |
| 12.5° | 2876.8 | 2879.2 | 2884.2 | 2895.4 | 2901.6 | 2917.8 | 2906.6 | 2884.2 | 2869.3 | 2858.1 | 2868.1 |
| 15° | 2888.0 | 2890.4 | 2897.9 | 2911.6 | 2921.6 | 2939.0 | 2922.8 | 2891.7 | 2870.5 | 2855.6 | 2864.3 |
| 17.5° | 2901.6 | 2905.4 | 2916.6 | 2936.5 | 2952.7 | 2971.3 | 2951.4 | 2914.1 | 2884.2 | 2864.3 | 2871.8 |
| 20° | 2916.6 | 2921.6 | 2939.0 | 2968.8 | 2998.7 | 3022.3 | 2997.5 | 2947.7 | 2911.6 | 2885.5 | 2892.9 |
| 22.5° | 2942.7 | 2948.9 | 2971.3 | 3013.6 | 3058.4 | 3093.3 | 3062.2 | 2995.0 | 2947.7 | 2914.1 | 2920.3 |
| 25° | 2996.2 | 3003.7 | 3032.3 | 3083.3 | 3146.8 | 3189.1 | 3145.5 | 3069.6 | 3003.7 | 2962.6 | 2968.8 |
| 27.5° | 3090.8 | 3094.5 | 3131.8 | 3199.0 | 3277.4 | 3325.9 | 3273.7 | 3184.1 | 3110.7 | 3063.4 | 3068.4 |
| 30° | 3215.2 | 3226.4 | 3263.7 | 3352.1 | 3445.4 | 3510.1 | 3441.7 | 3335.9 | 3251.3 | 3194.1 | 3199.0 |
| 32.5° | 3367.0 | 3374.5 | 3430.5 | 3522.5 | 3656.9 | 3731.6 | 3638.3 | 3512.6 | 3410.6 | 3340.9 | 3345.9 |
| 35° | 3566.1 | 3572.3 | 3625.8 | 3742.8 | 3905.8 | 3975.5 | 3868.4 | 3724.1 | 3605.9 | 3540.0 | 3558.6 |
| 37.5° | 3803.7 | 3814.9 | 3853.5 | 3969.2 | 4150.9 | 4219.3 | 4096.1 | 3961.8 | 3838.6 | 3777.6 | 3791.3 |
| 40° | 4058.8 | 4057.6 | 4088.7 | 4190.7 | 4356.2 | 4398.5 | 4287.8 | 4180.8 | 4075.0 | 4035.2 | 4057.6 |
| 42.5° | 4277.8 | 4271.6 | 4294.0 | 4378.6 | 4493.1 | 4496.8 | 4423.4 | 4363.7 | 4289.0 | 4261.6 | 4282.8 |
| 45° | 4430.9 | 4433.3 | 4466.9 | 4525.4 | 4583.9 | 4552.8 | 4530.4 | 4520.4 | 4462.0 | 4424.6 | 4428.4 |
| 47.5° | 4551.6 | 4561.5 | 4615.0 | 4654.8 | 4662.3 | 4610.0 | 4641.1 | 4656.1 | 4607.5 | 4550.3 | 4534.1 |
| 50° | 4658.6 | 4674.7 | 4744.4 | 4786.7 | 4770.5 | 4704.6 | 4765.6 | 4788.0 | 4681.0 | 4571.5 | 4539.1 |
| 52.5° | 4852.7 | 4871.3 | 4955.9 | 5010.7 | 4992.0 | 4926.1 | 4983.3 | 4903.7 | 4723.3 | 4588.9 | 4547.8 |
| 55° | 5162.5 | 5171.2 | 5274.5 | 5364.1 | 5355.4 | 5274.5 | 5228.4 | 5051.8 | 4832.8 | 4693.4 | 4654.8 |
| 57.5° | 5096.5 | 5111.5 | 5290.7 | 5529.6 | 5663.9 | 5590.5 | 5320.5 | 5019.4 | 4722.0 | 4554.0 | 4501.8 |
| 60° | 4010.3 | 4046.4 | 4269.1 | 4689.7 | 5182.4 | 5181.2 | 4679.7 | 4211.9 | 3853.5 | 3630.8 | 3608.4 |
| 62.5° | 2341.7 | 2366.6 | 2569.4 | 2995.0 | 3436.7 | 3464.1 | 3111.9 | 2790.9 | 2477.3 | 2326.8 | 2254.6 |
| 65° | 1108.6 | 1107.4 | 1188.3 | 1379.9 | 1678.5 | 1702.2 | 1596.4 | 1421.0 | 1235.6 | 1184.5 | 1170.9 |
| 67.5° | 818.7 | 818.7 | 812.5 | 826.2 | 883.4 | 895.9 | 883.4 | 854.8 | 837.4 | 848.6 | 841.1 |
| 70° | 710.5 | 711.7 | 704.3 | 700.5 | 700.5 | 696.8 | 701.8 | 713.0 | 720.4 | 735.4 | 727.9 |
| 72.5° | 576.1 | 577.3 | 577.3 | 578.6 | 579.8 | 574.9 | 582.3 | 588.5 | 589.8 | 594.8 | 589.8 |
| 75° | 409.4 | 411.9 | 419.3 | 425.5 | 430.5 | 430.5 | 433.0 | 434.3 | 429.3 | 435.5 | 425.5 |
| 77.5° | 225.2 | 227.7 | 241.4 | 252.6 | 263.8 | 265.0 | 268.8 | 271.3 | 268.8 | 273.7 | 266.3 |
| 80° | 124.4 | 126.9 | 133.1 | 138.1 | 146.8 | 154.3 | 159.3 | 161.8 | 161.8 | 165.5 | 161.8 |
| 82.5° | 70.9 | 73.4 | 77.1 | 79.6 | 87.1 | 93.3 | 98.3 | 102.0 | 102.0 | 103.3 | 100.8 |
| 85° | 33.6 | 33.6 | 36.1 | 38.6 | 42.3 | 44.8 | 51.0 | 54.7 | 54.7 | 57.2 | 54.7 |
| 87.5° | 5.0 | 6.2 | 7.5 | 7.5 | 10.0 | 12.4 | 14.9 | 16.2 | 18.7 | 19.9 | 19.9 |
| 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)