

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: P642413

Luminaire Tested: GWS-SA6C-830-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-830-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13781.7 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

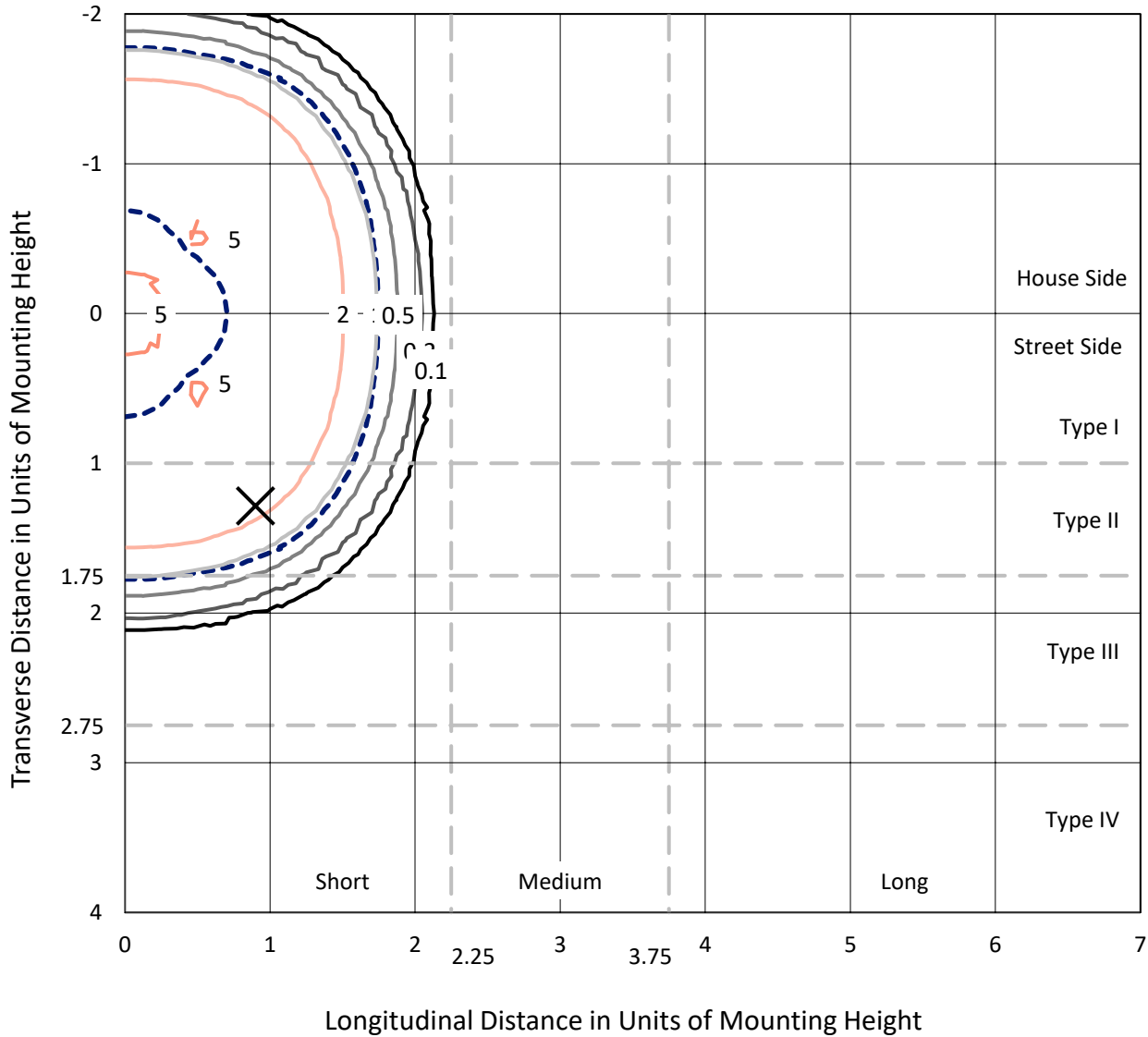
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

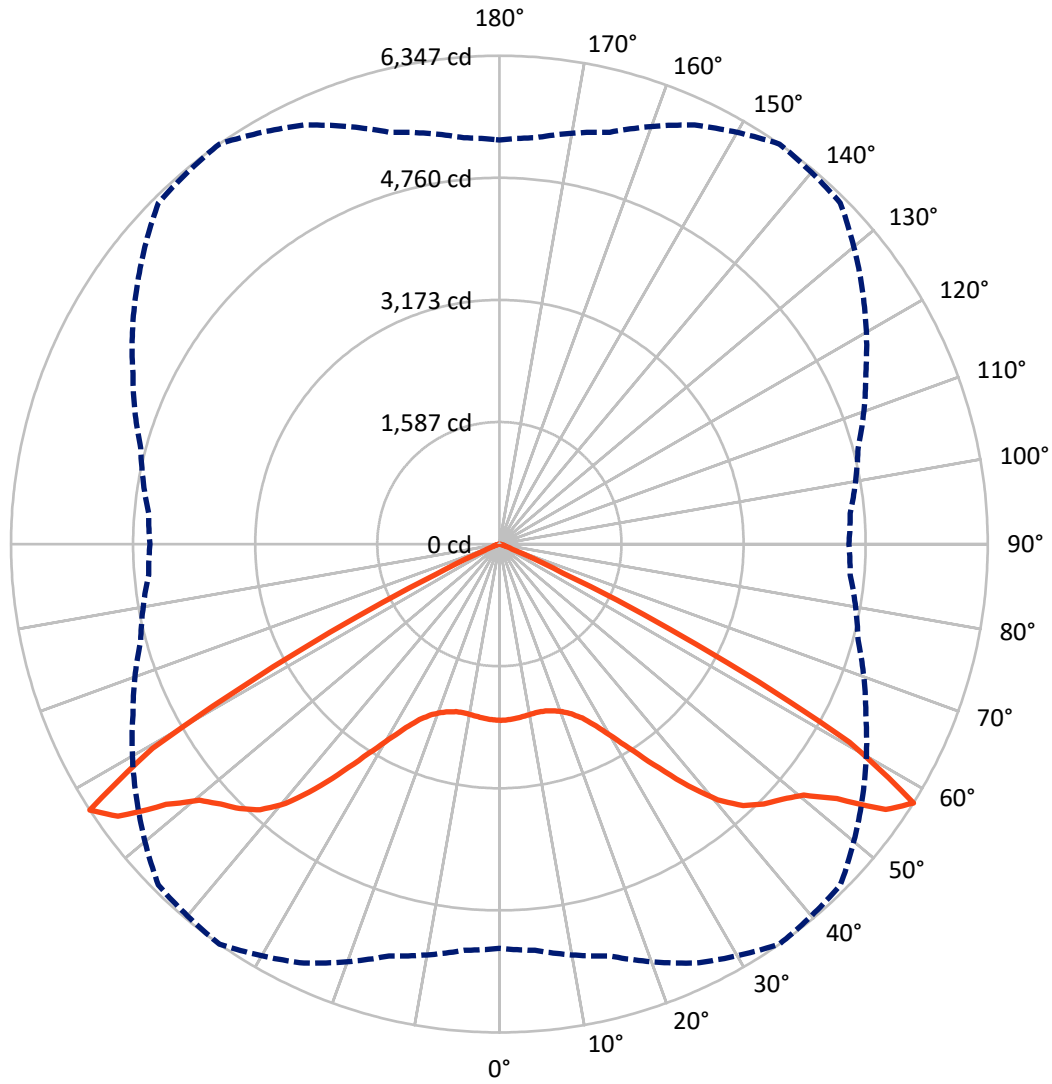
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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 | 6890.8 | 0.0 | 6890.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6890.8 | 0.0 | 6890.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13781.7 | 0.0 | 13781.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 215.9 | 1.6 |
| 10°-20° | 635.0 | 4.6 |
| 20°-30° | 1147.8 | 8.3 |
| 30°-40° | 2141.4 | 15.5 |
| 40°-50° | 3592.2 | 26.1 |
| 50°-60° | 4743.9 | 34.4 |
| 60°-70° | 1259.9 | 9.1 |
| 70°-80° | 44.7 | 0.3 |
| 80°-90° | 0.8 | 0.0 |
| 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° | 13781.7 | 100.0 |
| 0°-180° | 13781.7 | 100.0 |

Coefficient of Utilization



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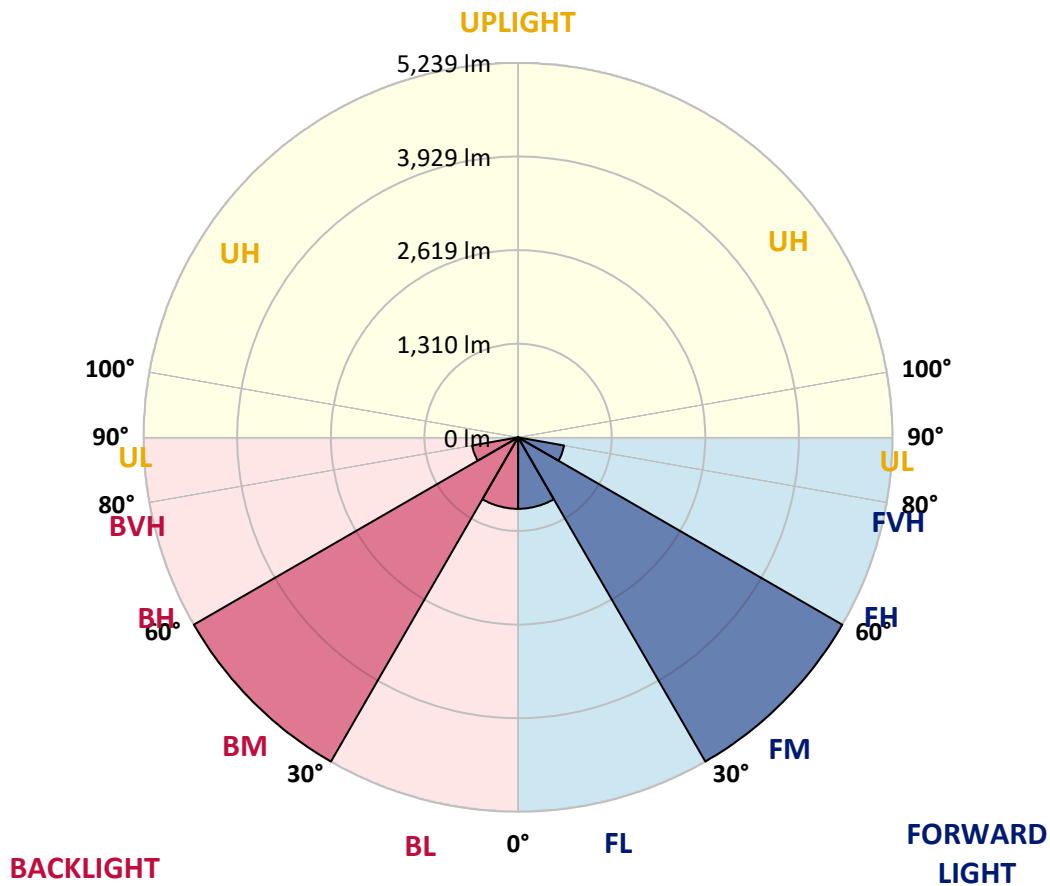
CATALOG NUMBER: GWS-SA6C-830-U-5MQ-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 999.4 | 7.3 | | | |
| FM (30°-60°) | 5238.8 | 38.0 | | | |
| FH (60°-80°) | 652.3 | 4.7 | | | G0/660 |
| FVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 999.4 | 7.3 | B2/1000 | | |
| BM (30°-60°) | 5238.8 | 38.0 | B4/8500 | | |
| BH (60°-80°) | 652.3 | 4.7 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 | 2291.3 |
| 2.5° | 2275.2 | 2273.5 | 2280.0 | 2284.9 | 2284.9 | 2296.2 | 2292.9 | 2289.7 | 2286.5 | 2281.6 | 2292.9 |
| 5° | 2271.9 | 2270.3 | 2275.2 | 2278.4 | 2275.2 | 2284.9 | 2278.4 | 2271.9 | 2268.7 | 2262.2 | 2275.2 |
| 7.5° | 2257.4 | 2259.0 | 2262.2 | 2265.5 | 2260.6 | 2268.7 | 2260.6 | 2250.9 | 2242.8 | 2236.4 | 2247.7 |
| 10° | 2234.7 | 2236.4 | 2239.6 | 2246.1 | 2247.7 | 2259.0 | 2247.7 | 2229.9 | 2218.6 | 2208.9 | 2220.2 |
| 12.5° | 2223.4 | 2225.0 | 2229.9 | 2238.0 | 2239.6 | 2254.1 | 2239.6 | 2213.7 | 2197.5 | 2186.2 | 2197.5 |
| 15° | 2226.7 | 2229.9 | 2236.4 | 2246.1 | 2249.3 | 2263.8 | 2244.4 | 2210.5 | 2187.8 | 2173.3 | 2183.0 |
| 17.5° | 2238.0 | 2241.2 | 2250.9 | 2267.1 | 2278.4 | 2292.9 | 2268.7 | 2225.0 | 2194.3 | 2173.3 | 2183.0 |
| 20° | 2252.5 | 2257.4 | 2273.5 | 2299.4 | 2323.7 | 2349.5 | 2318.8 | 2259.0 | 2218.6 | 2192.7 | 2200.8 |
| 22.5° | 2292.9 | 2297.8 | 2320.4 | 2354.4 | 2394.8 | 2427.2 | 2390.0 | 2314.0 | 2259.0 | 2225.0 | 2233.1 |
| 25° | 2375.4 | 2380.3 | 2409.4 | 2453.0 | 2504.8 | 2546.8 | 2499.9 | 2404.5 | 2333.4 | 2294.6 | 2297.8 |
| 27.5° | 2504.8 | 2509.6 | 2543.6 | 2605.0 | 2674.6 | 2734.4 | 2666.5 | 2554.9 | 2474.1 | 2428.8 | 2428.8 |
| 30° | 2668.1 | 2674.6 | 2719.8 | 2802.3 | 2910.7 | 2989.9 | 2897.7 | 2761.9 | 2658.4 | 2597.0 | 2598.6 |
| 32.5° | 2878.3 | 2871.8 | 2936.5 | 3049.7 | 3203.3 | 3308.4 | 3172.6 | 3007.7 | 2879.9 | 2794.2 | 2802.3 |
| 35° | 3148.4 | 3146.7 | 3219.5 | 3373.1 | 3573.6 | 3699.8 | 3538.1 | 3324.6 | 3171.0 | 3083.7 | 3085.3 |
| 37.5° | 3496.0 | 3494.4 | 3578.5 | 3745.0 | 3986.0 | 4091.1 | 3910.0 | 3693.3 | 3528.4 | 3444.3 | 3454.0 |
| 40° | 3903.5 | 3893.8 | 3968.2 | 4128.3 | 4369.2 | 4437.1 | 4239.9 | 4065.2 | 3906.7 | 3853.4 | 3879.3 |
| 42.5° | 4291.6 | 4270.6 | 4314.2 | 4459.8 | 4645.7 | 4655.4 | 4506.7 | 4387.0 | 4278.7 | 4236.6 | 4252.8 |
| 45° | 4603.7 | 4587.5 | 4627.9 | 4712.0 | 4818.7 | 4770.2 | 4699.1 | 4661.9 | 4574.6 | 4529.3 | 4543.9 |
| 47.5° | 4836.5 | 4836.5 | 4885.0 | 4936.8 | 4953.0 | 4864.0 | 4875.3 | 4875.3 | 4788.0 | 4716.9 | 4699.1 |
| 50° | 5037.0 | 5051.6 | 5124.4 | 5177.7 | 5124.4 | 5011.2 | 5075.9 | 5062.9 | 4885.0 | 4742.7 | 4705.6 |
| 52.5° | 5357.2 | 5371.8 | 5483.3 | 5556.1 | 5496.3 | 5384.7 | 5392.8 | 5231.1 | 4969.1 | 4801.0 | 4742.7 |
| 55° | 5696.8 | 5732.4 | 5894.1 | 6088.1 | 6089.7 | 5974.9 | 5761.5 | 5475.3 | 5156.7 | 4974.0 | 4914.2 |
| 57.5° | 5252.1 | 5300.6 | 5541.6 | 6008.9 | 6346.8 | 6267.6 | 5758.2 | 5255.3 | 4825.2 | 4576.2 | 4542.2 |
| 60° | 3614.1 | 3698.1 | 3939.1 | 4577.8 | 5229.5 | 5260.2 | 4658.7 | 4094.3 | 3601.1 | 3293.9 | 3300.4 |
| 62.5° | 1526.5 | 1612.2 | 1748.0 | 2273.5 | 2871.8 | 2909.0 | 2618.0 | 2213.7 | 1811.1 | 1589.5 | 1623.5 |
| 65° | 359.0 | 383.2 | 423.7 | 629.0 | 912.0 | 954.0 | 879.7 | 685.6 | 506.1 | 428.5 | 436.6 |
| 67.5° | 156.9 | 160.1 | 152.0 | 161.7 | 200.5 | 205.4 | 198.9 | 174.6 | 164.9 | 168.2 | 168.2 |
| 70° | 110.0 | 111.6 | 105.1 | 100.3 | 95.4 | 88.9 | 92.2 | 101.9 | 110.0 | 116.4 | 114.8 |
| 72.5° | 67.9 | 69.5 | 71.1 | 71.1 | 66.3 | 59.8 | 63.1 | 69.5 | 71.1 | 72.8 | 71.1 |
| 75° | 34.0 | 35.6 | 38.8 | 40.4 | 38.8 | 37.2 | 37.2 | 38.8 | 38.8 | 37.2 | 37.2 |
| 77.5° | 6.5 | 8.1 | 11.3 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 | 14.6 | 12.9 | 12.9 |
| 80° | 1.6 | 1.6 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 3.2 |
| 82.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 |
| 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)