

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: P642418

Luminaire Tested: GWS-SA6C-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642418
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-SA6C-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23575.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

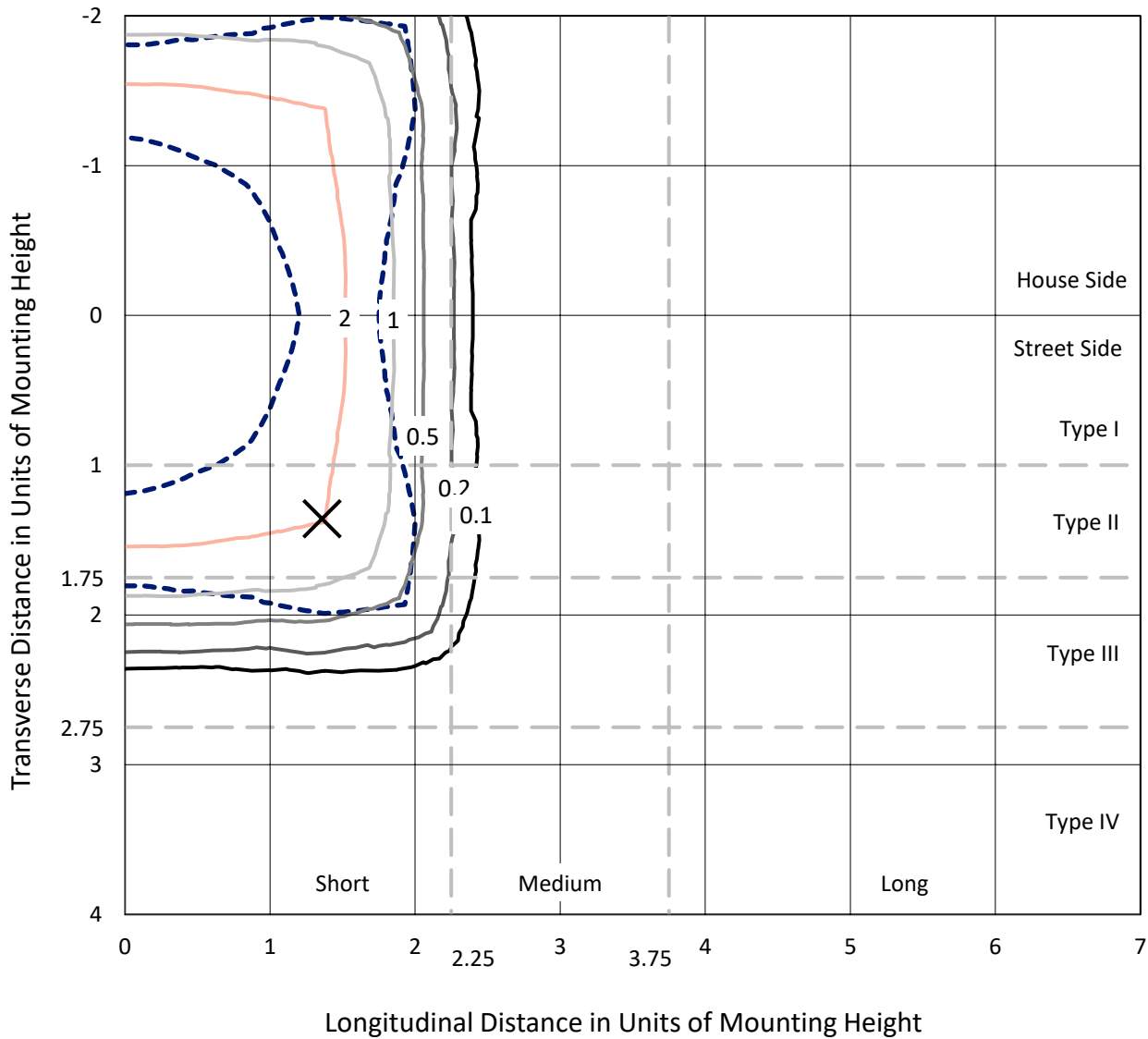
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P642418
 CATALOG NUMBER: GWS-SA6C-830-U-5NQ-W

Iso-Footcandle Lines of Horizontal Illumination

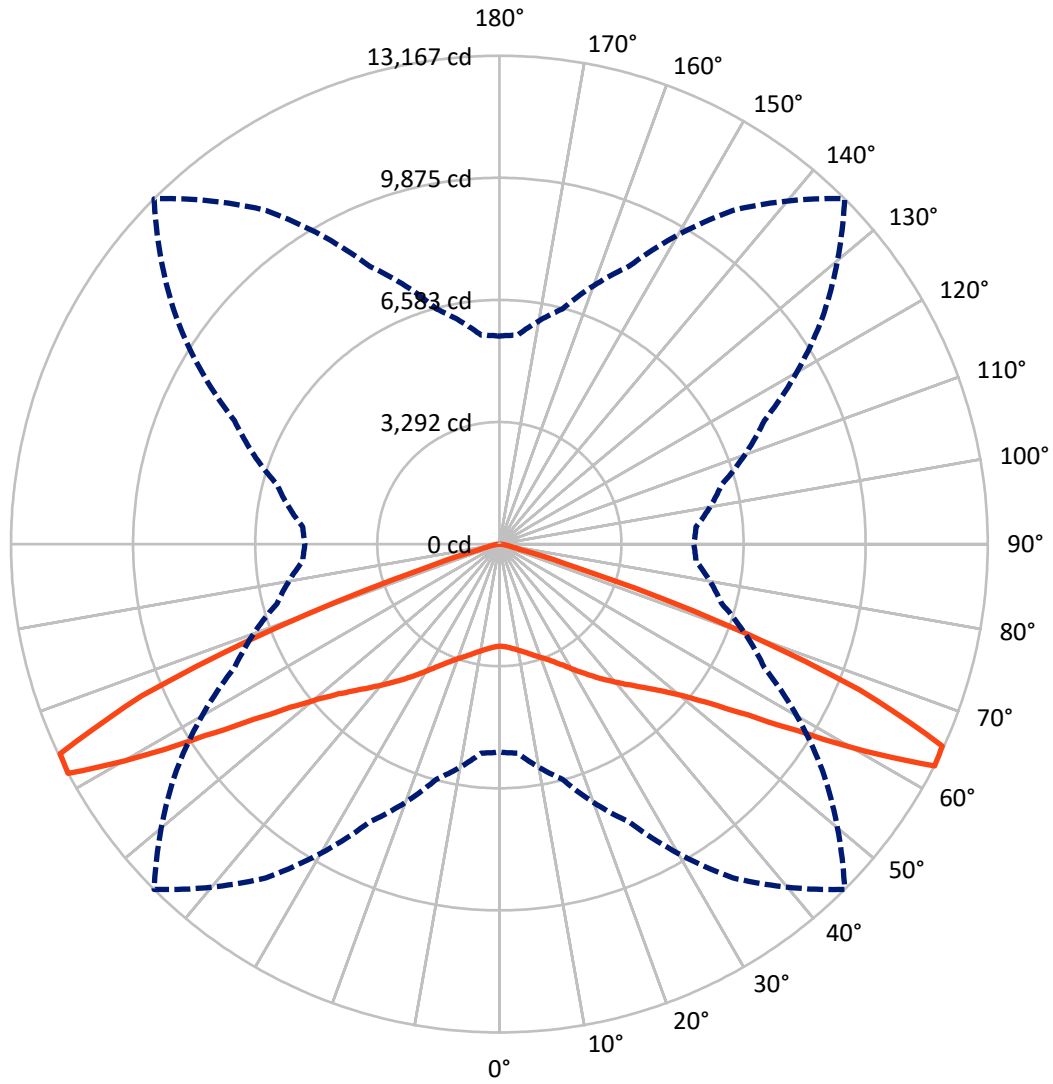
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

REPORT NUMBER: P642418
CATALOG NUMBER: GWS-SA6C-830-U-5NQ-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P642418

CATALOG NUMBER: GWS-SA6C-830-U-5NQ-W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11787.9 | 0.0 | 11787.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11787.9 | 0.0 | 11787.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23575.9 | 0.0 | 23575.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 269.9 | 1.1 |
| 10°-20° | 870.2 | 3.7 |
| 20°-30° | 1646.4 | 7.0 |
| 30°-40° | 2771.1 | 11.8 |
| 40°-50° | 4427.4 | 18.8 |
| 50°-60° | 7136.8 | 30.3 |
| 60°-70° | 5822.8 | 24.7 |
| 70°-80° | 565.4 | 2.4 |
| 80°-90° | 65.8 | 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° | 23575.9 | 100.0 |
| 0°-180° | 23575.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P642418

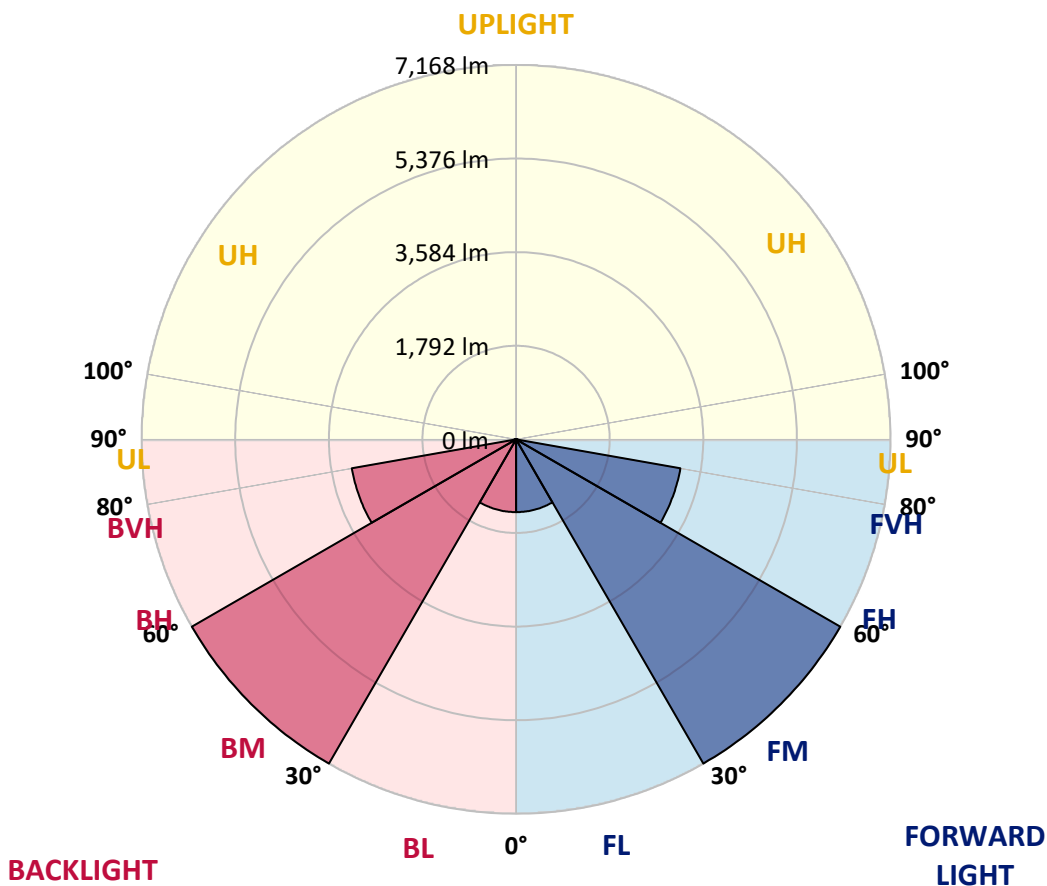
CATALOG NUMBER: GWS-SA6C-830-U-5NQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1393.2 | 5.9 | | | |
| FM (30°-60°) | 7167.7 | 30.4 | | | |
| FH (60°-80°) | 3194.1 | 13.5 | | | G2/5000 |
| FVH (80°-90°) | 32.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1393.2 | 5.9 | B3/2500 | | |
| BM (30°-60°) | 7167.7 | 30.4 | B4/8500 | | |
| BH (60°-80°) | 3194.1 | 13.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 32.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P642418
 CATALOG NUMBER: GWS-SA6C-830-U-5NQ-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 | 2750.4 |
| 2.5° | 2747.2 | 2747.2 | 2753.7 | 2758.5 | 2755.3 | 2768.2 | 2766.6 | 2763.4 | 2761.8 | 2756.9 | 2771.5 |
| 5° | 2784.4 | 2784.4 | 2789.3 | 2794.1 | 2786.0 | 2802.2 | 2795.7 | 2792.5 | 2790.9 | 2784.4 | 2797.3 |
| 7.5° | 2826.4 | 2831.3 | 2832.9 | 2841.0 | 2836.1 | 2853.9 | 2849.1 | 2842.6 | 2839.4 | 2831.3 | 2842.6 |
| 10° | 2873.3 | 2876.6 | 2878.2 | 2892.7 | 2894.4 | 2915.4 | 2910.5 | 2902.4 | 2896.0 | 2887.9 | 2904.1 |
| 12.5° | 2936.4 | 2938.0 | 2942.9 | 2960.7 | 2965.5 | 2981.7 | 2980.1 | 2968.7 | 2960.7 | 2949.3 | 2967.1 |
| 15° | 3017.2 | 3018.9 | 3026.9 | 3044.7 | 3052.8 | 3072.2 | 3065.8 | 3048.0 | 3036.6 | 3023.7 | 3038.3 |
| 17.5° | 3101.3 | 3107.8 | 3115.9 | 3133.7 | 3145.0 | 3167.6 | 3159.5 | 3140.1 | 3130.4 | 3117.5 | 3127.2 |
| 20° | 3209.7 | 3211.3 | 3216.1 | 3235.5 | 3243.6 | 3269.5 | 3271.1 | 3251.7 | 3246.9 | 3233.9 | 3248.5 |
| 22.5° | 3329.3 | 3330.9 | 3335.8 | 3356.8 | 3371.4 | 3387.5 | 3397.2 | 3385.9 | 3377.8 | 3361.7 | 3379.4 |
| 25° | 3461.9 | 3478.1 | 3482.9 | 3508.8 | 3525.0 | 3534.7 | 3546.0 | 3541.1 | 3529.8 | 3510.4 | 3518.5 |
| 27.5° | 3647.9 | 3651.1 | 3659.2 | 3688.3 | 3698.0 | 3707.7 | 3719.0 | 3720.6 | 3704.5 | 3681.8 | 3693.1 |
| 30° | 3859.7 | 3858.1 | 3875.8 | 3898.5 | 3906.6 | 3914.7 | 3930.8 | 3940.5 | 3919.5 | 3895.3 | 3906.6 |
| 32.5° | 4076.4 | 4095.8 | 4118.4 | 4139.4 | 4134.6 | 4137.8 | 4163.7 | 4181.5 | 4152.3 | 4108.7 | 4118.4 |
| 35° | 4320.5 | 4333.4 | 4362.6 | 4393.3 | 4386.8 | 4382.0 | 4398.1 | 4415.9 | 4375.5 | 4318.9 | 4333.4 |
| 37.5° | 4571.1 | 4590.5 | 4634.2 | 4671.4 | 4661.7 | 4639.1 | 4656.8 | 4676.2 | 4637.4 | 4572.8 | 4566.3 |
| 40° | 4850.9 | 4881.6 | 4944.7 | 4975.4 | 4949.5 | 4905.9 | 4936.6 | 4983.5 | 4944.7 | 4870.3 | 4852.5 |
| 42.5° | 5179.1 | 5216.3 | 5279.4 | 5326.3 | 5269.7 | 5198.5 | 5250.3 | 5318.2 | 5308.5 | 5209.8 | 5179.1 |
| 45° | 5585.0 | 5609.2 | 5686.8 | 5709.5 | 5625.4 | 5526.8 | 5620.5 | 5724.0 | 5699.8 | 5593.1 | 5552.6 |
| 47.5° | 6026.4 | 6063.6 | 6131.5 | 6173.5 | 6037.7 | 5914.8 | 6045.8 | 6184.9 | 6159.0 | 6058.7 | 6011.9 |
| 50° | 6589.1 | 6637.6 | 6726.5 | 6762.1 | 6574.6 | 6433.9 | 6602.0 | 6778.3 | 6728.2 | 6594.0 | 6532.5 |
| 52.5° | 7201.9 | 7240.7 | 7392.7 | 7463.9 | 7287.6 | 7135.6 | 7282.8 | 7455.8 | 7349.1 | 7171.2 | 7088.7 |
| 55° | 7742.0 | 7780.8 | 8003.9 | 8240.0 | 8231.9 | 8126.8 | 8201.2 | 8204.4 | 7915.0 | 7620.7 | 7533.4 |
| 57.5° | 7858.4 | 7897.2 | 8322.5 | 8940.2 | 9376.7 | 9498.0 | 9279.7 | 8820.5 | 8091.3 | 7575.5 | 7476.8 |
| 60° | 7237.5 | 7281.2 | 7957.1 | 9085.7 | 10521.5 | 11331.6 | 10325.9 | 8807.6 | 7546.3 | 6847.8 | 6754.0 |
| 62.5° | 5607.6 | 5654.5 | 6563.2 | 8257.8 | 10984.0 | 13166.9 | 10629.9 | 7881.1 | 6207.5 | 5323.0 | 5240.6 |
| 65° | 2677.7 | 2677.7 | 3832.2 | 5922.9 | 10062.3 | 13123.2 | 9750.3 | 5830.8 | 3736.8 | 2870.1 | 2799.0 |
| 67.5° | 663.0 | 666.2 | 986.3 | 2305.8 | 6844.6 | 10473.0 | 6956.2 | 2799.0 | 1316.2 | 931.4 | 907.1 |
| 70° | 413.9 | 412.3 | 457.6 | 624.1 | 2394.7 | 6356.3 | 2844.2 | 844.1 | 535.2 | 472.2 | 468.9 |
| 72.5° | 321.8 | 321.8 | 344.4 | 399.4 | 627.4 | 2165.1 | 829.5 | 468.9 | 388.1 | 349.3 | 349.3 |
| 75° | 253.9 | 253.9 | 270.0 | 299.1 | 370.3 | 557.9 | 441.4 | 347.6 | 300.8 | 274.9 | 271.6 |
| 77.5° | 189.2 | 192.4 | 205.4 | 224.8 | 252.2 | 313.7 | 279.7 | 261.9 | 234.5 | 215.1 | 208.6 |
| 80° | 122.9 | 127.7 | 143.9 | 155.2 | 164.9 | 207.0 | 182.7 | 190.8 | 177.9 | 155.2 | 152.0 |
| 82.5° | 66.3 | 67.9 | 87.3 | 90.5 | 93.8 | 113.2 | 116.4 | 121.3 | 126.1 | 98.6 | 92.2 |
| 85° | 24.3 | 24.3 | 29.1 | 34.0 | 37.2 | 40.4 | 55.0 | 67.9 | 71.1 | 56.6 | 55.0 |
| 87.5° | 4.9 | 4.9 | 4.9 | 3.2 | 3.2 | 3.2 | 9.7 | 17.8 | 29.1 | 22.6 | 22.6 |
| 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)