

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: P641208

Luminaire Tested: GWS-SA5F-740-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641208
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-SA5F-740-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43624.9 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

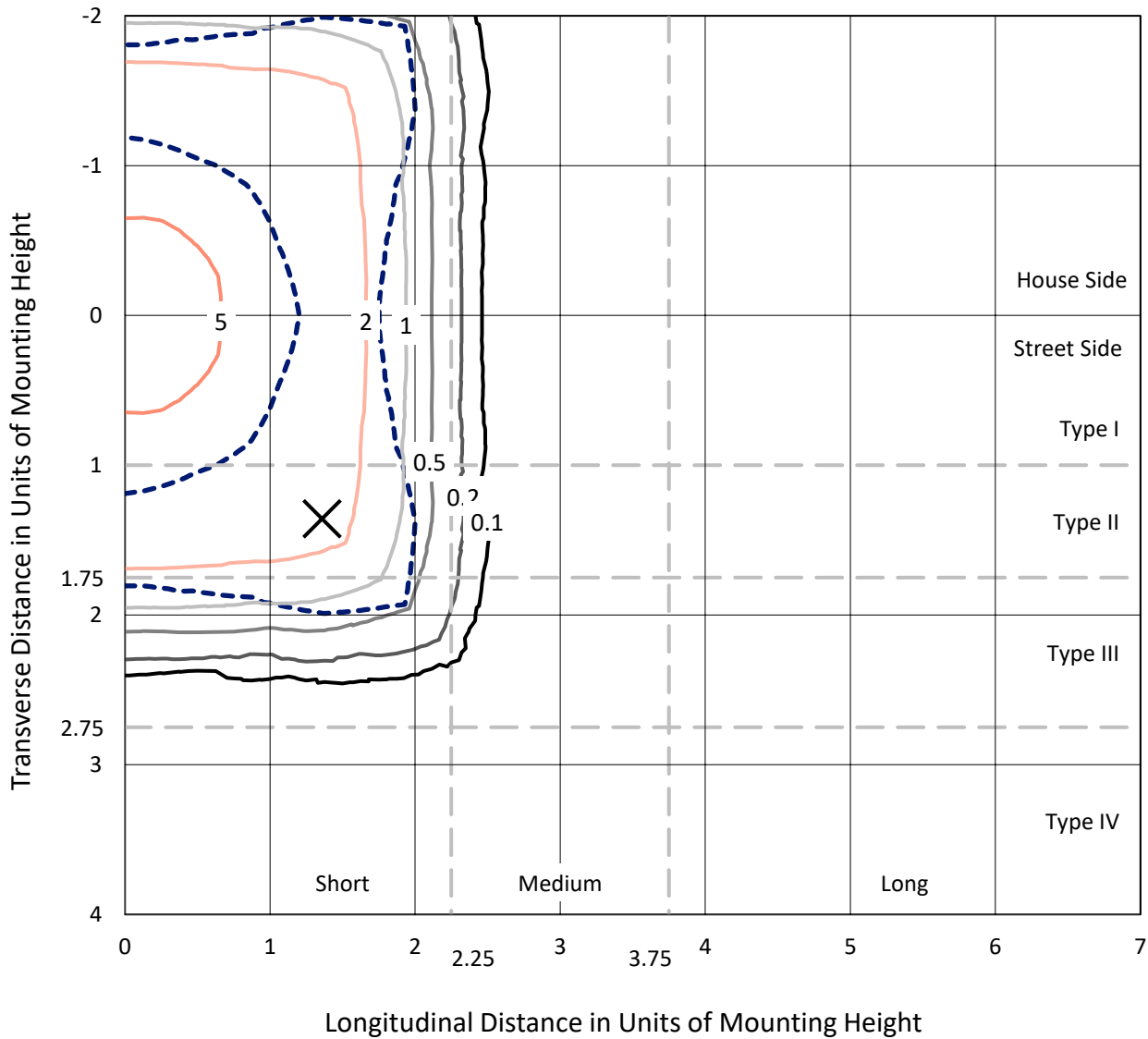
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

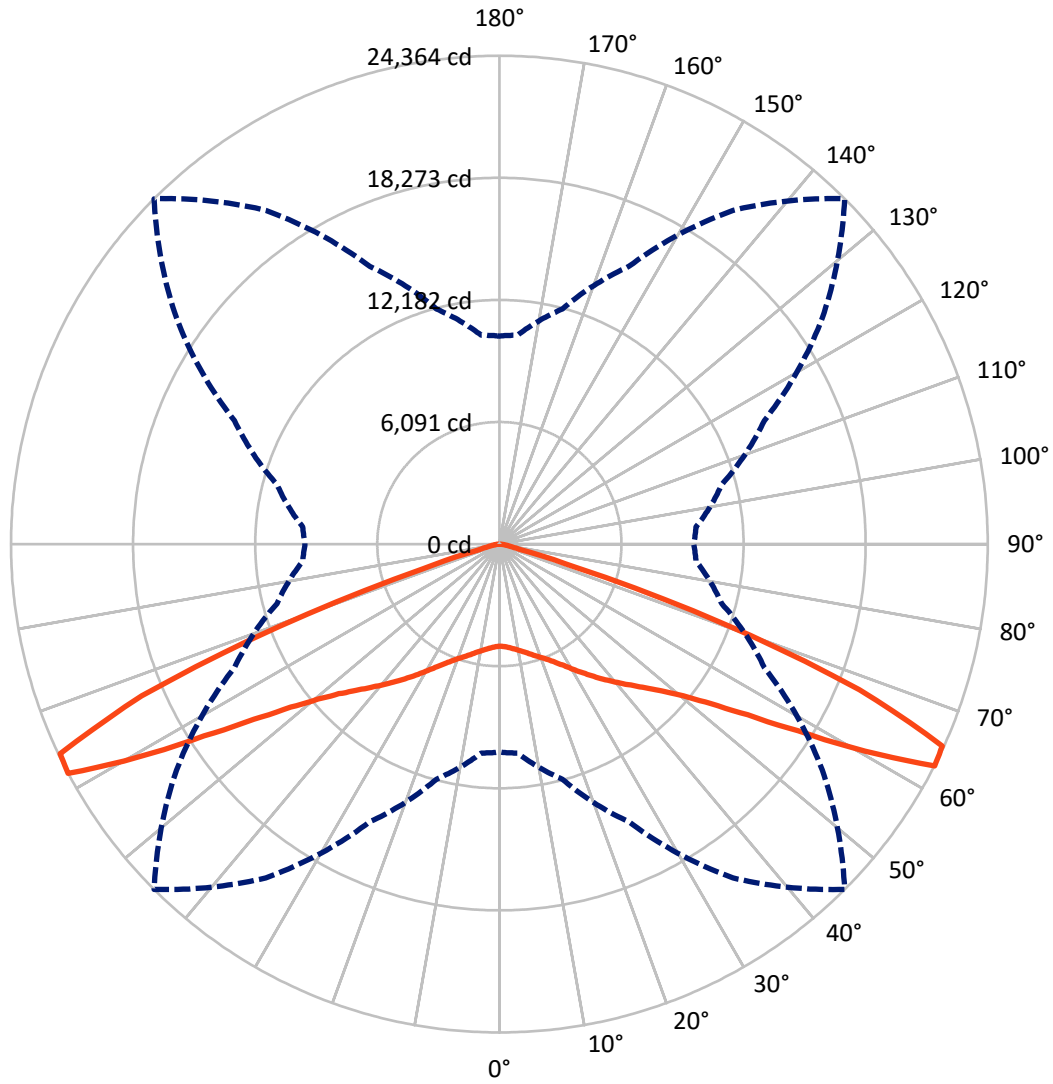
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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 | 21812.4 | 0.0 | 21812.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 21812.4 | 0.0 | 21812.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 43624.9 | 0.0 | 43624.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 499.3 | 1.1 |
| 10°-20° | 1610.3 | 3.7 |
| 20°-30° | 3046.5 | 7.0 |
| 30°-40° | 5127.7 | 11.8 |
| 40°-50° | 8192.5 | 18.8 |
| 50°-60° | 13205.9 | 30.3 |
| 60°-70° | 10774.6 | 24.7 |
| 70°-80° | 1046.3 | 2.4 |
| 80°-90° | 121.8 | 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° | 43624.9 | 100.0 |
| 0°-180° | 43624.9 | 100.0 |

Coefficient of Utilization



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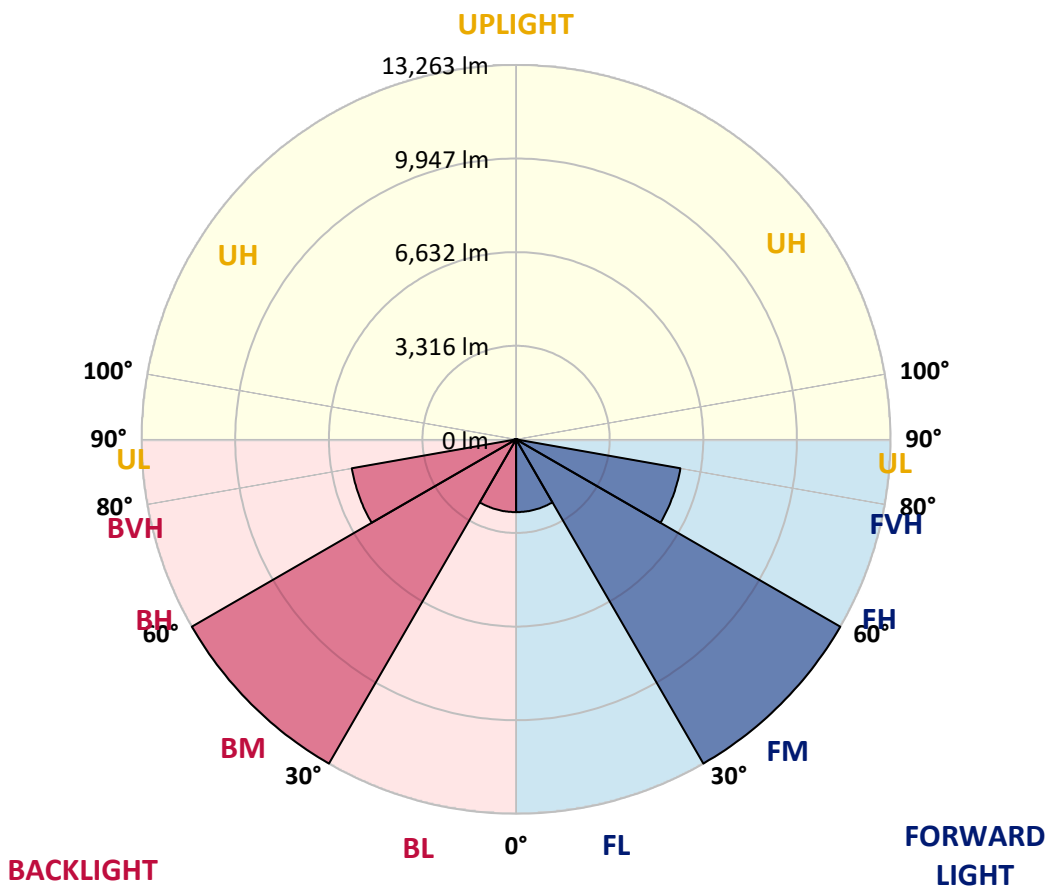
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2578.1 | 5.9 | | | |
| FM (30°-60°) | 13263.1 | 30.4 | | | |
| FH (60°-80°) | 5910.4 | 13.5 | | | G3/7500 |
| FVH (80°-90°) | 60.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2578.1 | 5.9 | B4/5000 | | |
| BM (30°-60°) | 13263.1 | 30.4 | B5 | | |
| BH (60°-80°) | 5910.4 | 13.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 60.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 | 5089.4 |
| 2.5° | 5083.4 | 5083.4 | 5095.4 | 5104.4 | 5098.4 | 5122.3 | 5119.4 | 5113.4 | 5110.4 | 5101.4 | 5128.3 |
| 5° | 5152.3 | 5152.3 | 5161.2 | 5170.2 | 5155.3 | 5185.2 | 5173.2 | 5167.2 | 5164.2 | 5152.3 | 5176.2 |
| 7.5° | 5230.1 | 5239.0 | 5242.0 | 5257.0 | 5248.0 | 5280.9 | 5271.9 | 5260.0 | 5254.0 | 5239.0 | 5260.0 |
| 10° | 5316.8 | 5322.8 | 5325.8 | 5352.7 | 5355.7 | 5394.6 | 5385.6 | 5370.7 | 5358.7 | 5343.8 | 5373.7 |
| 12.5° | 5433.5 | 5436.5 | 5445.5 | 5478.4 | 5487.4 | 5517.3 | 5514.3 | 5493.4 | 5478.4 | 5457.5 | 5490.4 |
| 15° | 5583.1 | 5586.1 | 5601.1 | 5634.0 | 5648.9 | 5684.8 | 5672.9 | 5640.0 | 5619.0 | 5595.1 | 5622.0 |
| 17.5° | 5738.7 | 5750.7 | 5765.6 | 5798.5 | 5819.5 | 5861.4 | 5846.4 | 5810.5 | 5792.6 | 5768.6 | 5786.6 |
| 20° | 5939.2 | 5942.2 | 5951.1 | 5987.0 | 6002.0 | 6049.9 | 6052.9 | 6017.0 | 6008.0 | 5984.0 | 6011.0 |
| 22.5° | 6160.6 | 6163.6 | 6172.5 | 6211.4 | 6238.4 | 6268.3 | 6286.2 | 6265.3 | 6250.3 | 6220.4 | 6253.3 |
| 25° | 6405.9 | 6435.8 | 6444.8 | 6492.7 | 6522.6 | 6540.6 | 6561.5 | 6552.5 | 6531.6 | 6495.7 | 6510.6 |
| 27.5° | 6750.0 | 6756.0 | 6771.0 | 6824.8 | 6842.8 | 6860.7 | 6881.7 | 6884.6 | 6854.7 | 6812.8 | 6833.8 |
| 30° | 7142.0 | 7139.0 | 7171.9 | 7213.8 | 7228.7 | 7243.7 | 7273.6 | 7291.6 | 7252.7 | 7207.8 | 7228.7 |
| 32.5° | 7542.9 | 7578.8 | 7620.7 | 7659.6 | 7650.6 | 7656.6 | 7704.5 | 7737.4 | 7683.5 | 7602.7 | 7620.7 |
| 35° | 7994.7 | 8018.6 | 8072.5 | 8129.3 | 8117.4 | 8108.4 | 8138.3 | 8171.2 | 8096.4 | 7991.7 | 8018.6 |
| 37.5° | 8458.5 | 8494.4 | 8575.1 | 8644.0 | 8626.0 | 8584.1 | 8617.0 | 8652.9 | 8581.1 | 8461.4 | 8449.5 |
| 40° | 8976.1 | 9032.9 | 9149.6 | 9206.5 | 9158.6 | 9077.8 | 9134.6 | 9221.4 | 9149.6 | 9012.0 | 8979.1 |
| 42.5° | 9583.5 | 9652.3 | 9769.0 | 9855.7 | 9751.0 | 9619.4 | 9715.1 | 9840.8 | 9822.8 | 9640.3 | 9583.5 |
| 45° | 10334.5 | 10379.3 | 10522.9 | 10564.8 | 10409.3 | 10226.7 | 10400.3 | 10591.8 | 10546.9 | 10349.4 | 10274.6 |
| 47.5° | 11151.3 | 11220.1 | 11345.8 | 11423.5 | 11172.2 | 10944.8 | 11187.2 | 11444.5 | 11396.6 | 11211.1 | 11124.3 |
| 50° | 12192.5 | 12282.3 | 12446.8 | 12512.6 | 12165.6 | 11905.3 | 12216.4 | 12542.6 | 12449.8 | 12201.5 | 12087.8 |
| 52.5° | 13326.5 | 13398.3 | 13679.5 | 13811.2 | 13485.1 | 13203.8 | 13476.1 | 13796.2 | 13598.7 | 13269.6 | 13117.0 |
| 55° | 14325.8 | 14397.6 | 14810.5 | 15247.4 | 15232.4 | 15037.9 | 15175.5 | 15181.5 | 14646.0 | 14101.4 | 13939.8 |
| 57.5° | 14541.2 | 14613.0 | 15399.9 | 16542.9 | 17350.7 | 17575.1 | 17171.2 | 16321.5 | 14972.1 | 14017.6 | 13835.1 |
| 60° | 13392.3 | 13473.1 | 14723.8 | 16812.2 | 19469.1 | 20968.1 | 19107.1 | 16297.6 | 13963.8 | 12671.2 | 12497.7 |
| 62.5° | 10376.3 | 10463.1 | 12144.6 | 15280.3 | 20324.8 | 24364.1 | 19669.6 | 14583.1 | 11486.4 | 9849.7 | 9697.1 |
| 65° | 4954.8 | 4954.8 | 7091.1 | 10959.8 | 18619.4 | 24283.3 | 18041.9 | 10789.2 | 6914.6 | 5310.8 | 5179.2 |
| 67.5° | 1226.7 | 1232.7 | 1825.1 | 4266.6 | 12665.2 | 19379.3 | 12871.7 | 5179.2 | 2435.5 | 1723.4 | 1678.5 |
| 70° | 766.0 | 763.0 | 846.7 | 1154.9 | 4431.2 | 11761.6 | 5263.0 | 1561.8 | 990.4 | 873.7 | 867.7 |
| 72.5° | 595.4 | 595.4 | 637.3 | 739.0 | 1160.9 | 4006.3 | 1534.9 | 867.7 | 718.1 | 646.3 | 646.3 |
| 75° | 469.7 | 469.7 | 499.7 | 553.5 | 685.2 | 1032.2 | 816.8 | 643.3 | 556.5 | 508.6 | 502.7 |
| 77.5° | 350.1 | 356.1 | 380.0 | 415.9 | 466.8 | 580.5 | 517.6 | 484.7 | 433.8 | 397.9 | 386.0 |
| 80° | 227.4 | 236.4 | 266.3 | 287.2 | 305.2 | 383.0 | 338.1 | 353.1 | 329.1 | 287.2 | 281.3 |
| 82.5° | 122.7 | 125.7 | 161.6 | 167.6 | 173.5 | 209.4 | 215.4 | 224.4 | 233.4 | 182.5 | 170.5 |
| 85° | 44.9 | 44.9 | 53.9 | 62.8 | 68.8 | 74.8 | 101.7 | 125.7 | 131.6 | 104.7 | 101.7 |
| 87.5° | 9.0 | 9.0 | 9.0 | 6.0 | 6.0 | 6.0 | 18.0 | 32.9 | 53.9 | 41.9 | 41.9 |
| 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)