

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: P641318

Luminaire Tested: GWS-SA5F-760-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641318
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-760-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44013 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

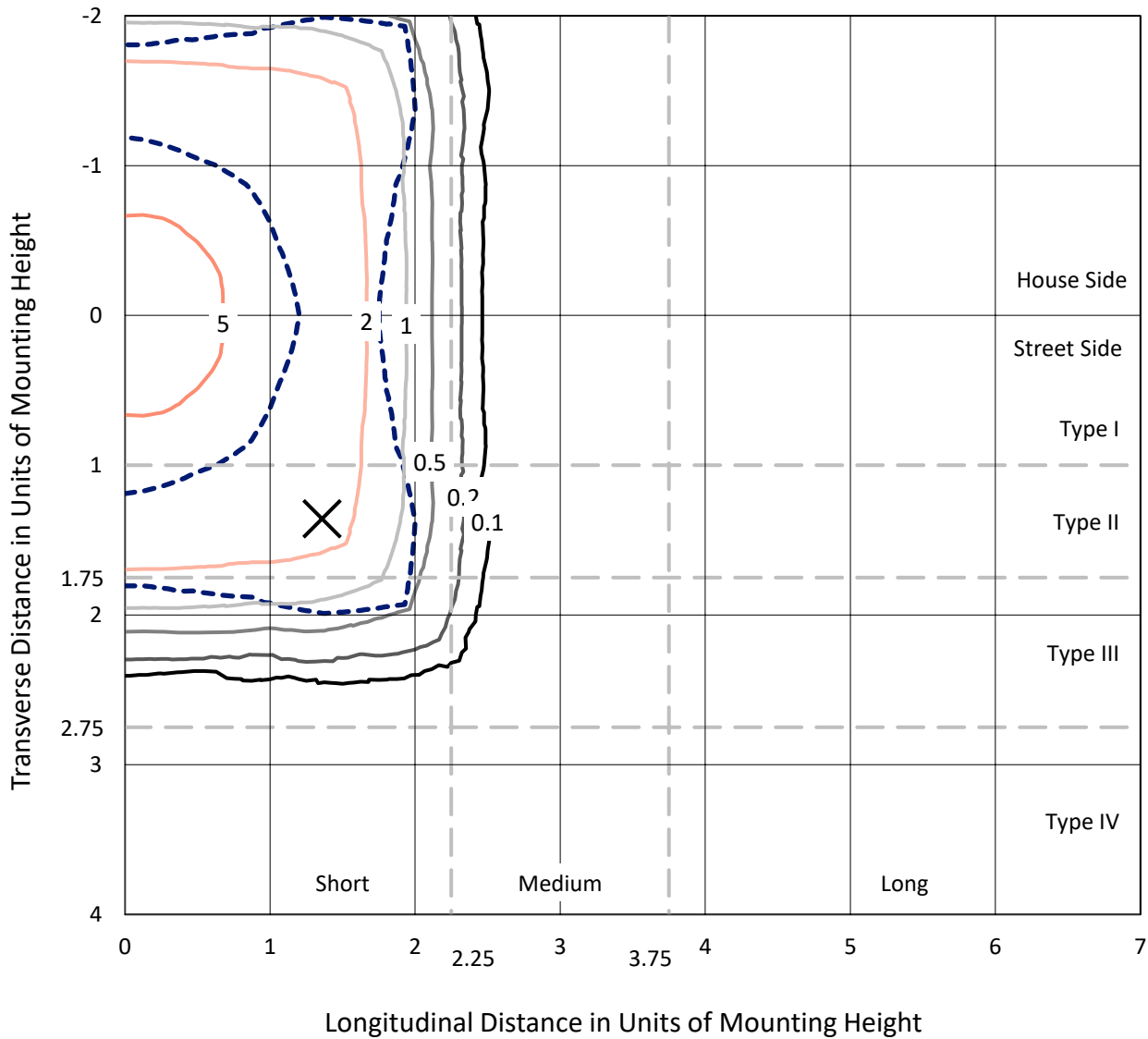
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

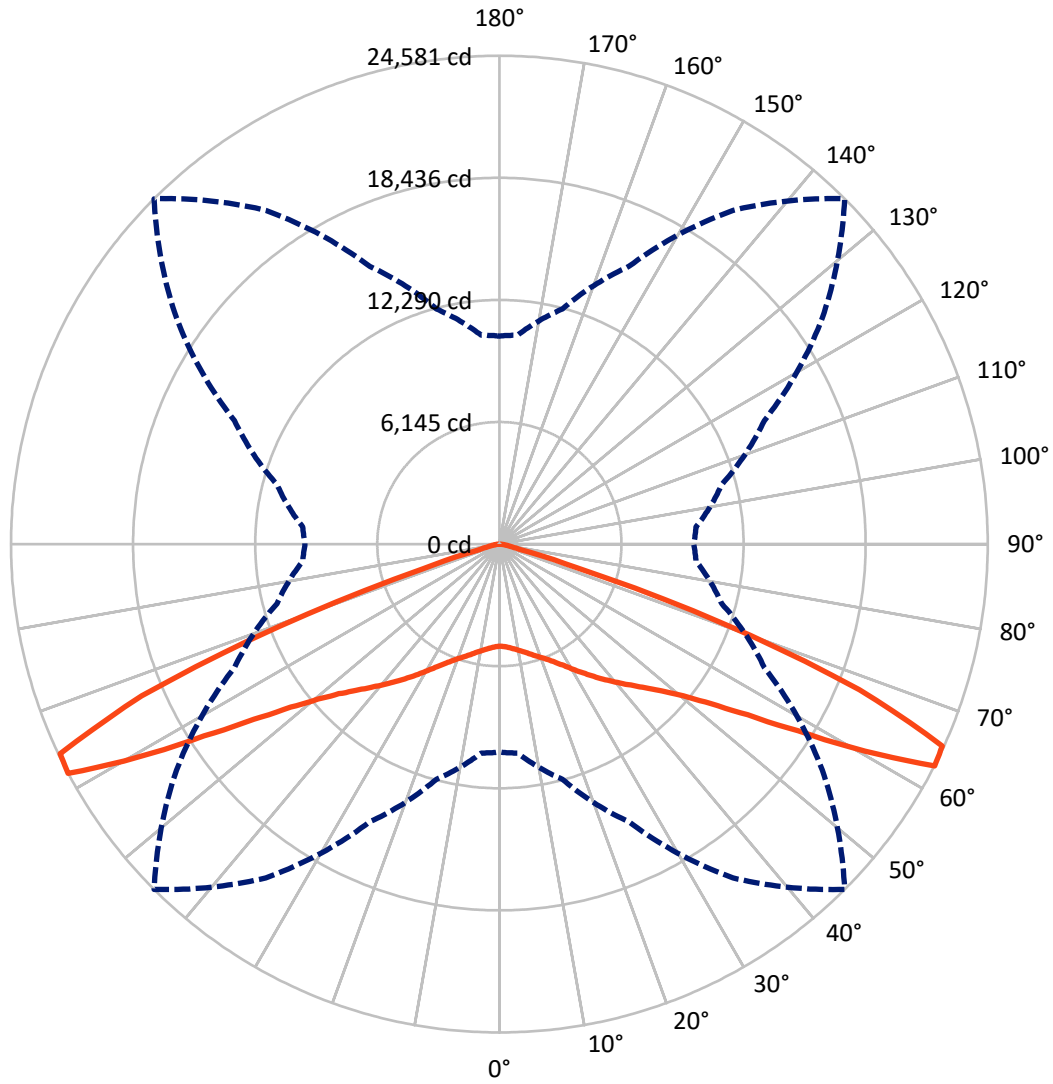
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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 | 22006.5 | 0.0 | 22006.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22006.5 | 0.0 | 22006.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44013.0 | 0.0 | 44013.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 503.8 | 1.1 |
| 10°-20° | 1624.6 | 3.7 |
| 20°-30° | 3073.6 | 7.0 |
| 30°-40° | 5173.3 | 11.8 |
| 40°-50° | 8265.4 | 18.8 |
| 50°-60° | 13323.4 | 30.3 |
| 60°-70° | 10870.4 | 24.7 |
| 70°-80° | 1055.6 | 2.4 |
| 80°-90° | 122.8 | 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° | 44013.0 | 100.0 |
| 0°-180° | 44013.0 | 100.0 |

Coefficient of Utilization



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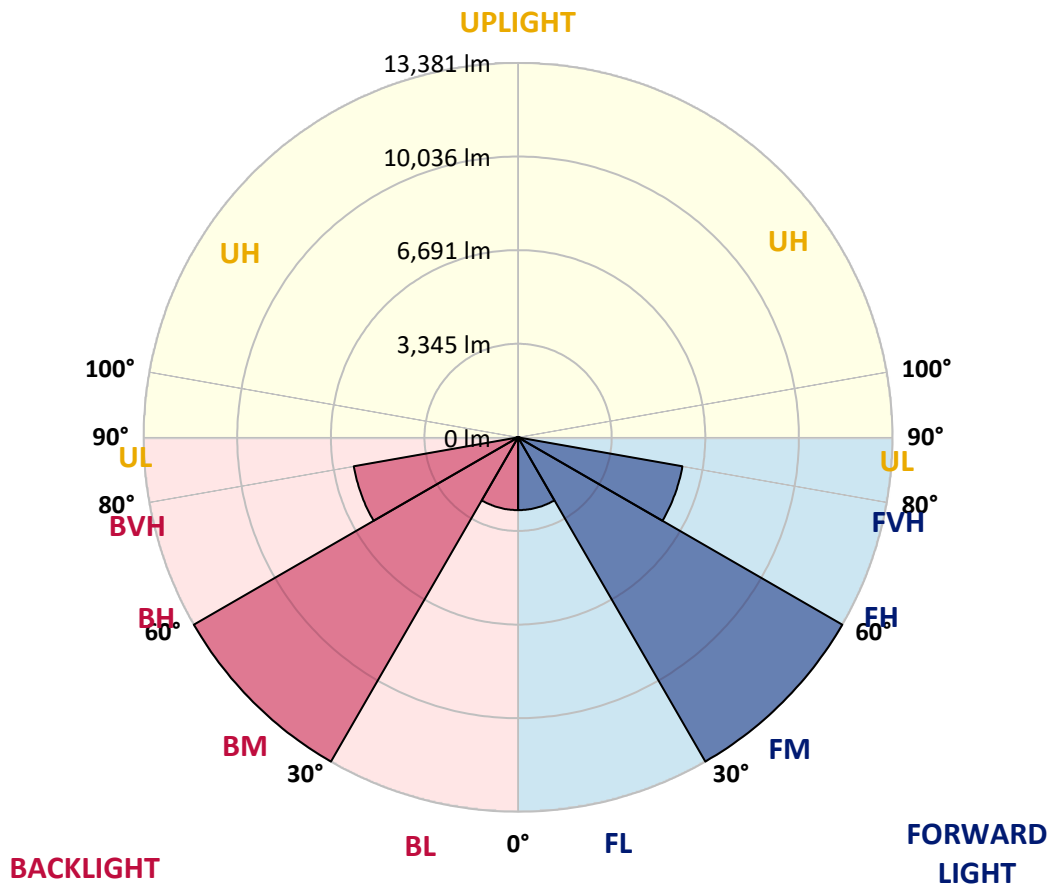
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2601.0 | 5.9 | | | |
| FM (30°-60°) | 13381.1 | 30.4 | | | |
| FH (60°-80°) | 5963.0 | 13.5 | | | G3/7500 |
| FVH (80°-90°) | 61.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2601.0 | 5.9 | B4/5000 | | |
| BM (30°-60°) | 13381.1 | 30.4 | B5 | | |
| BH (60°-80°) | 5963.0 | 13.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 61.4 | 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° | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 | 5134.7 |
| 2.5° | 5128.7 | 5128.7 | 5140.7 | 5149.8 | 5143.8 | 5167.9 | 5164.9 | 5158.9 | 5155.8 | 5146.8 | 5174.0 |
| 5° | 5198.1 | 5198.1 | 5207.2 | 5216.2 | 5201.1 | 5231.3 | 5219.2 | 5213.2 | 5210.2 | 5198.1 | 5222.3 |
| 7.5° | 5276.6 | 5285.6 | 5288.7 | 5303.8 | 5294.7 | 5327.9 | 5318.8 | 5306.8 | 5300.7 | 5285.6 | 5306.8 |
| 10° | 5364.1 | 5370.2 | 5373.2 | 5400.4 | 5403.4 | 5442.6 | 5433.6 | 5418.5 | 5406.4 | 5391.3 | 5421.5 |
| 12.5° | 5481.9 | 5484.9 | 5493.9 | 5527.1 | 5536.2 | 5566.4 | 5563.4 | 5542.2 | 5527.1 | 5506.0 | 5539.2 |
| 15° | 5632.8 | 5635.8 | 5650.9 | 5684.1 | 5699.2 | 5735.4 | 5723.3 | 5690.1 | 5669.0 | 5644.9 | 5672.0 |
| 17.5° | 5789.8 | 5801.8 | 5816.9 | 5850.1 | 5871.3 | 5913.5 | 5898.4 | 5862.2 | 5844.1 | 5819.9 | 5838.1 |
| 20° | 5992.0 | 5995.0 | 6004.1 | 6040.3 | 6055.4 | 6103.7 | 6106.7 | 6070.5 | 6061.4 | 6037.3 | 6064.5 |
| 22.5° | 6215.4 | 6218.4 | 6227.5 | 6266.7 | 6293.9 | 6324.1 | 6342.2 | 6321.0 | 6305.9 | 6275.8 | 6309.0 |
| 25° | 6462.9 | 6493.1 | 6502.2 | 6550.5 | 6580.6 | 6598.8 | 6619.9 | 6610.8 | 6589.7 | 6553.5 | 6568.6 |
| 27.5° | 6810.1 | 6816.1 | 6831.2 | 6885.5 | 6903.6 | 6921.7 | 6942.9 | 6945.9 | 6915.7 | 6873.4 | 6894.6 |
| 30° | 7205.5 | 7202.5 | 7235.7 | 7277.9 | 7293.0 | 7308.1 | 7338.3 | 7356.4 | 7317.2 | 7271.9 | 7293.0 |
| 32.5° | 7610.0 | 7646.2 | 7688.5 | 7727.7 | 7718.7 | 7724.7 | 7773.0 | 7806.2 | 7751.9 | 7670.4 | 7688.5 |
| 35° | 8065.8 | 8090.0 | 8144.3 | 8201.7 | 8189.6 | 8180.5 | 8210.7 | 8243.9 | 8168.4 | 8062.8 | 8090.0 |
| 37.5° | 8533.7 | 8569.9 | 8651.4 | 8720.9 | 8702.7 | 8660.5 | 8693.7 | 8729.9 | 8657.5 | 8536.7 | 8524.6 |
| 40° | 9055.9 | 9113.3 | 9231.0 | 9288.4 | 9240.1 | 9158.6 | 9215.9 | 9303.5 | 9231.0 | 9092.1 | 9058.9 |
| 42.5° | 9668.7 | 9738.1 | 9855.9 | 9943.4 | 9837.8 | 9704.9 | 9801.5 | 9928.3 | 9910.2 | 9726.1 | 9668.7 |
| 45° | 10426.4 | 10471.7 | 10616.6 | 10658.8 | 10501.9 | 10317.7 | 10492.8 | 10686.0 | 10640.7 | 10441.5 | 10366.0 |
| 47.5° | 11250.5 | 11319.9 | 11446.7 | 11525.2 | 11271.6 | 11042.2 | 11286.7 | 11546.3 | 11498.0 | 11310.9 | 11223.3 |
| 50° | 12301.0 | 12391.5 | 12557.6 | 12624.0 | 12273.8 | 12011.2 | 12325.1 | 12654.1 | 12560.6 | 12310.0 | 12195.3 |
| 52.5° | 13445.0 | 13517.5 | 13801.2 | 13934.1 | 13605.0 | 13321.3 | 13596.0 | 13919.0 | 13719.7 | 13387.7 | 13233.7 |
| 55° | 14453.3 | 14525.7 | 14942.3 | 15383.0 | 15367.9 | 15171.7 | 15310.6 | 15316.6 | 14776.3 | 14226.9 | 14063.9 |
| 57.5° | 14670.6 | 14743.0 | 15537.0 | 16690.1 | 17505.1 | 17731.5 | 17324.0 | 16466.7 | 15105.3 | 14142.3 | 13958.2 |
| 60° | 13511.4 | 13592.9 | 14854.7 | 16961.7 | 19642.3 | 21154.6 | 19277.0 | 16442.5 | 14088.0 | 12783.9 | 12608.9 |
| 62.5° | 10468.7 | 10556.2 | 12252.7 | 15416.2 | 20505.6 | 24580.8 | 19844.6 | 14712.9 | 11588.6 | 9937.4 | 9783.4 |
| 65° | 4998.9 | 4998.9 | 7154.2 | 11057.3 | 18785.0 | 24499.3 | 18202.4 | 10885.2 | 6976.1 | 5358.1 | 5225.3 |
| 67.5° | 1237.6 | 1243.7 | 1841.4 | 4304.6 | 12777.9 | 19551.7 | 12986.2 | 5225.3 | 2457.2 | 1738.7 | 1693.5 |
| 70° | 772.8 | 769.8 | 854.3 | 1165.2 | 4470.6 | 11866.3 | 5309.8 | 1575.7 | 999.2 | 881.4 | 875.4 |
| 72.5° | 600.7 | 600.7 | 643.0 | 745.6 | 1171.2 | 4042.0 | 1548.6 | 875.4 | 724.5 | 652.0 | 652.0 |
| 75° | 473.9 | 473.9 | 504.1 | 558.4 | 691.3 | 1041.4 | 824.1 | 649.0 | 561.5 | 513.2 | 507.1 |
| 77.5° | 353.2 | 359.2 | 383.4 | 419.6 | 470.9 | 585.6 | 522.2 | 489.0 | 437.7 | 401.5 | 389.4 |
| 80° | 229.4 | 238.5 | 268.7 | 289.8 | 307.9 | 386.4 | 341.1 | 356.2 | 332.1 | 289.8 | 283.8 |
| 82.5° | 123.8 | 126.8 | 163.0 | 169.0 | 175.1 | 211.3 | 217.3 | 226.4 | 235.5 | 184.1 | 172.1 |
| 85° | 45.3 | 45.3 | 54.3 | 63.4 | 69.4 | 75.5 | 102.6 | 126.8 | 132.8 | 105.7 | 102.6 |
| 87.5° | 9.1 | 9.1 | 9.1 | 6.0 | 6.0 | 6.0 | 18.1 | 33.2 | 54.3 | 42.3 | 42.3 |
| 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)