

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532047

Luminaire Tested: **GALN-SA7B-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15197 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

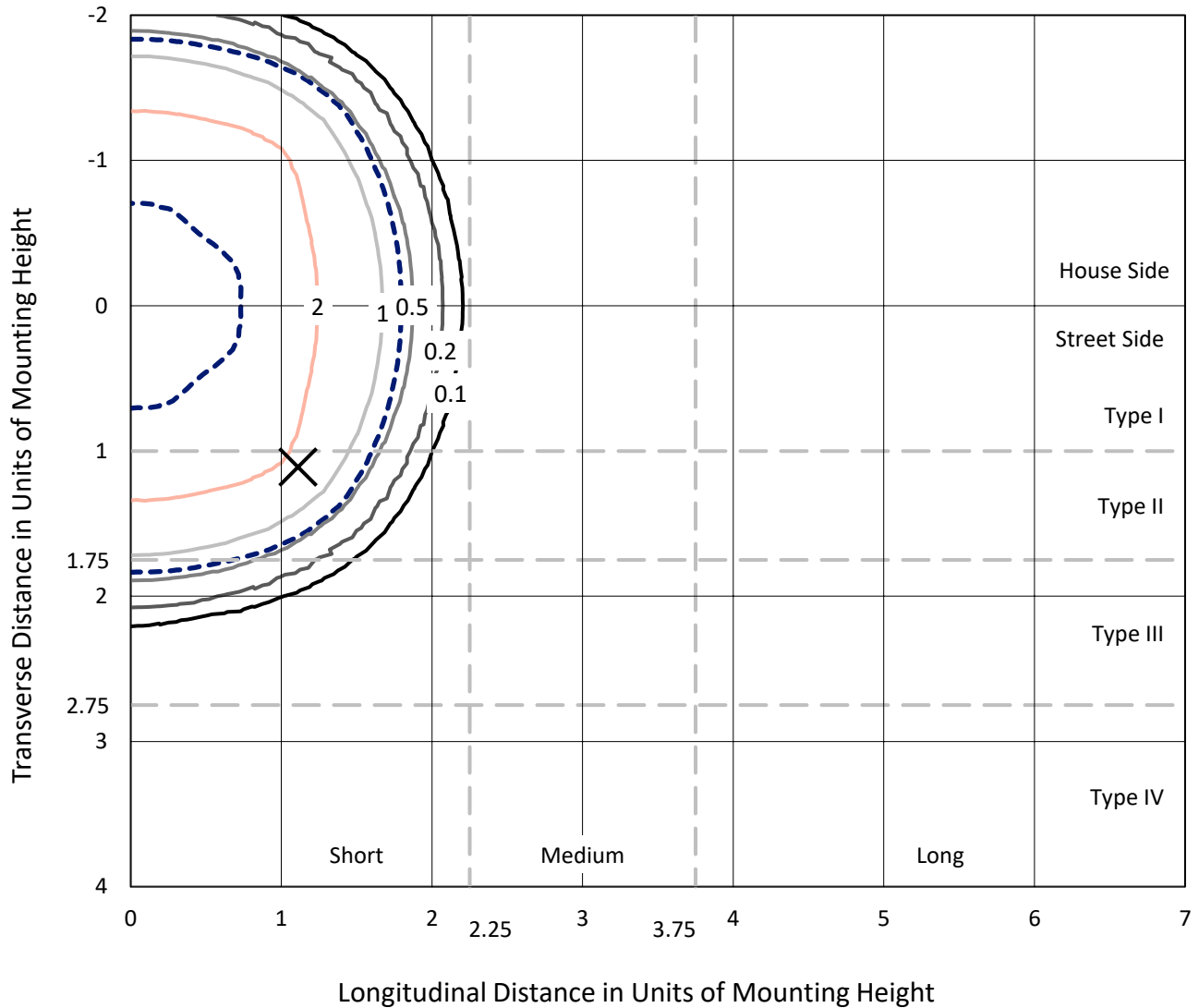
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

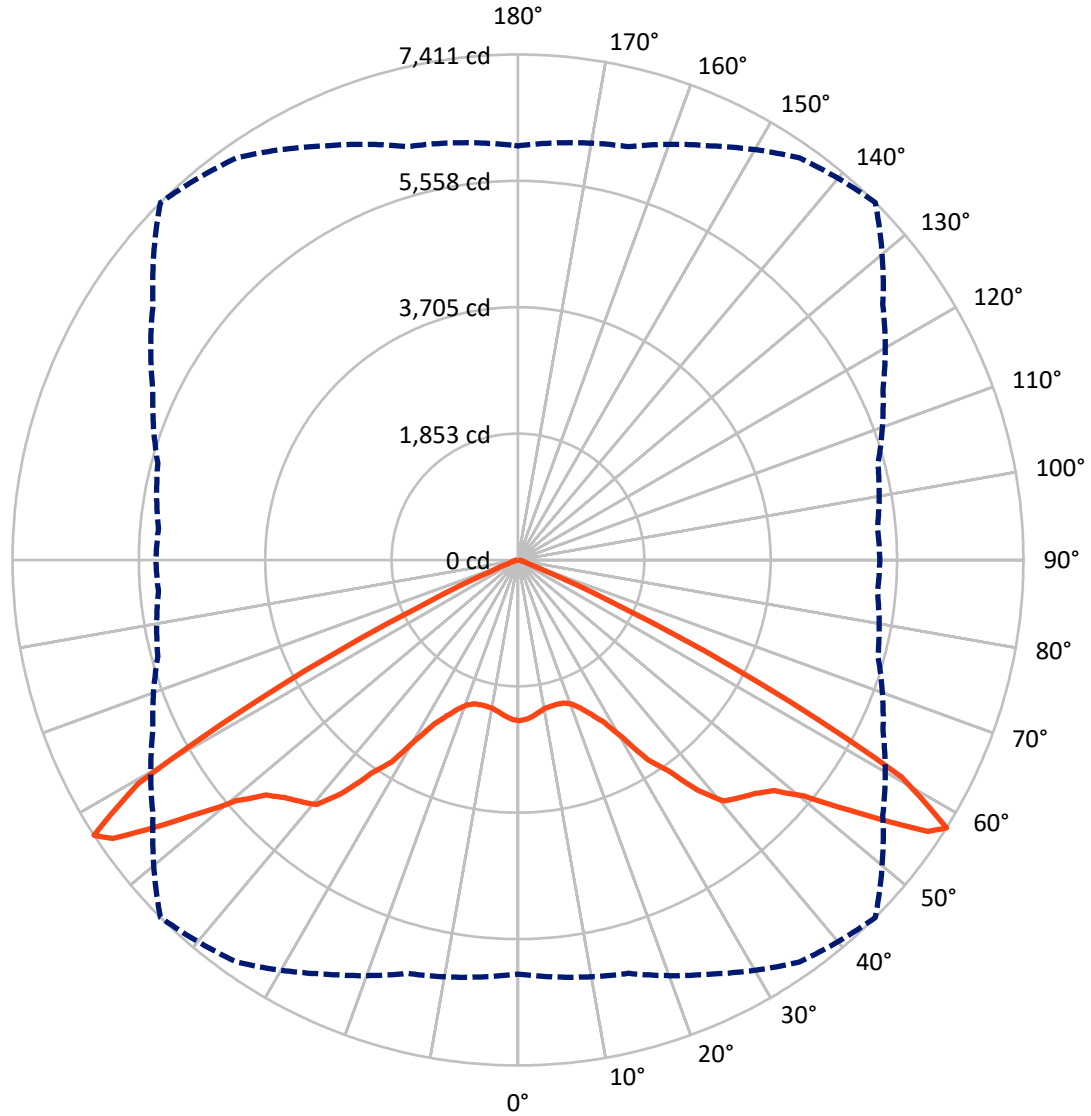
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7598.5 | 0.0 | 7598.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7598.5 | 0.0 | 7598.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15197.0 | 0.0 | 15197.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 216.6 | 1.4 |
| 10°-20° | 626.1 | 4.1 |
| 20°-30° | 1155.7 | 7.6 |
| 30°-40° | 2272.9 | 15.0 |
| 40°-50° | 3701.9 | 24.4 |
| 50°-60° | 5279.4 | 34.7 |
| 60°-70° | 1827.9 | 12.0 |
| 70°-80° | 98.1 | 0.6 |
| 80°-90° | 18.4 | 0.1 |
| 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° | 15197.0 | 100.0 |
| 0°-180° | 15197.0 | 100.0 |

Coefficient of Utilization

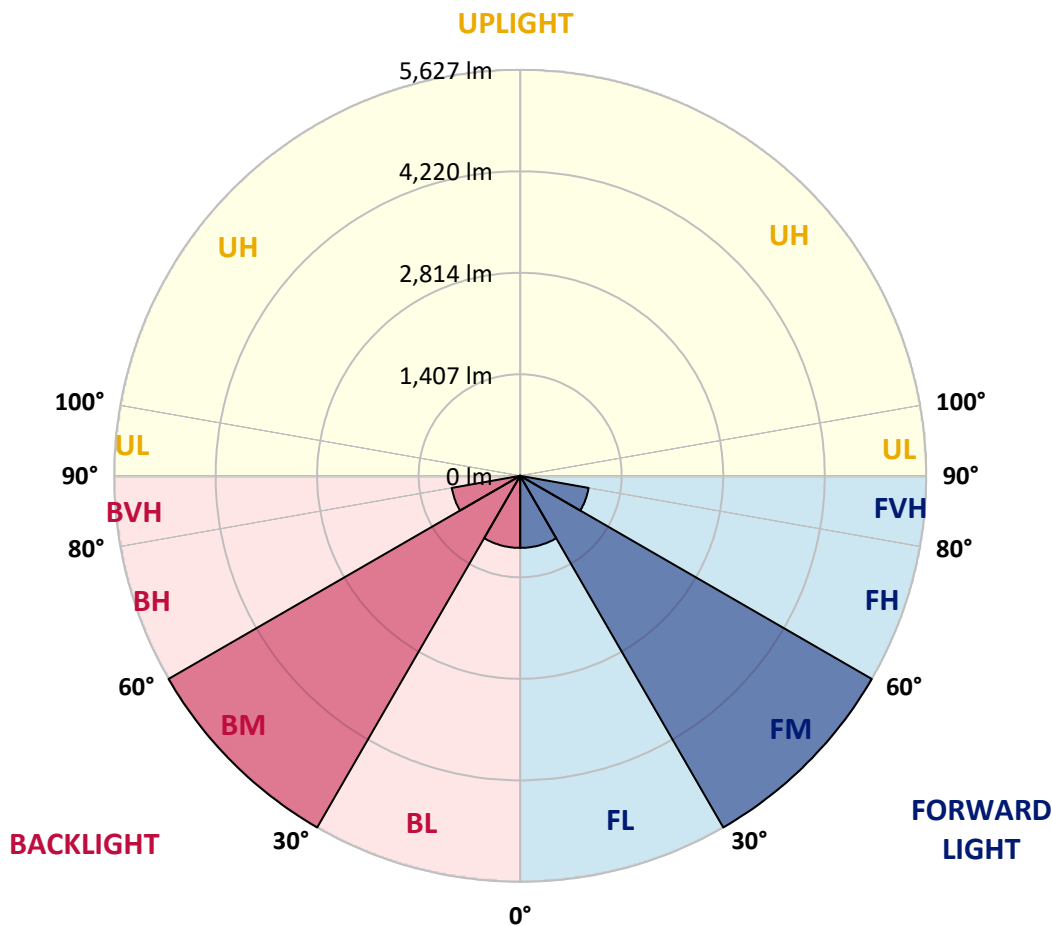


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 999.2 | 6.6 | | | |
| FM (30°-60°) | 5627.1 | 37.0 | | | |
| FH (60°-80°) | 963.0 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 9.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 999.2 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 5627.1 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 963.0 | 6.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 9.2 | 0.1 | | | G0/10 |
| 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° | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 | 2357.2 |
| 2.5° | 2350.9 | 2363.6 | 2347.7 | 2341.4 | 2338.2 | 2338.2 | 2328.7 | 2328.7 | 2325.5 | 2328.7 | 2316.0 |
| 5° | 2312.9 | 2325.5 | 2325.5 | 2322.4 | 2303.4 | 2300.2 | 2290.7 | 2284.3 | 2287.5 | 2274.8 | 2284.3 |
| 7.5° | 2274.8 | 2284.3 | 2271.7 | 2268.5 | 2262.2 | 2249.5 | 2246.3 | 2217.8 | 2221.0 | 2221.0 | 2227.3 |
| 10° | 2268.5 | 2265.3 | 2246.3 | 2230.5 | 2211.5 | 2208.3 | 2198.8 | 2192.5 | 2192.5 | 2189.3 | 2198.8 |
| 12.5° | 2268.5 | 2252.7 | 2249.5 | 2214.6 | 2183.0 | 2195.6 | 2170.3 | 2154.4 | 2176.6 | 2183.0 | 2195.6 |
| 15° | 2265.3 | 2281.2 | 2227.3 | 2211.5 | 2189.3 | 2192.5 | 2170.3 | 2154.4 | 2167.1 | 2173.5 | 2183.0 |
| 17.5° | 2284.3 | 2274.8 | 2259.0 | 2227.3 | 2217.8 | 2205.1 | 2176.6 | 2163.9 | 2163.9 | 2179.8 | 2183.0 |
| 20° | 2335.0 | 2309.7 | 2278.0 | 2262.2 | 2271.7 | 2255.8 | 2221.0 | 2173.5 | 2186.1 | 2198.8 | 2208.3 |
| 22.5° | 2382.6 | 2363.6 | 2341.4 | 2331.9 | 2385.7 | 2360.4 | 2300.2 | 2246.3 | 2227.3 | 2249.5 | 2265.3 |
| 25° | 2474.4 | 2474.4 | 2433.3 | 2445.9 | 2506.1 | 2509.3 | 2439.6 | 2344.5 | 2331.9 | 2341.4 | 2347.7 |
| 27.5° | 2661.4 | 2670.9 | 2636.0 | 2648.7 | 2674.0 | 2696.2 | 2636.0 | 2556.8 | 2528.3 | 2525.1 | 2534.6 |
| 30° | 2864.1 | 2883.2 | 2880.0 | 2933.8 | 3006.7 | 3019.4 | 2930.7 | 2800.8 | 2715.2 | 2699.4 | 2712.1 |
| 32.5° | 3130.3 | 3139.8 | 3133.4 | 3196.8 | 3393.2 | 3485.1 | 3253.8 | 3070.1 | 2956.0 | 2984.5 | 2956.0 |
| 35° | 3630.9 | 3621.4 | 3551.7 | 3564.3 | 3725.9 | 3792.5 | 3570.7 | 3453.4 | 3399.6 | 3456.6 | 3443.9 |
| 37.5° | 4061.8 | 4026.9 | 3969.9 | 4052.3 | 4220.2 | 4280.4 | 4049.1 | 3843.1 | 3744.9 | 3840.0 | 3881.2 |
| 40° | 4426.1 | 4337.4 | 4258.2 | 4340.6 | 4565.5 | 4647.9 | 4308.9 | 4141.0 | 4102.9 | 4172.6 | 4261.4 |
| 42.5° | 4733.4 | 4676.4 | 4571.9 | 4578.2 | 4727.1 | 4765.1 | 4492.6 | 4394.4 | 4356.4 | 4467.3 | 4511.7 |
| 45° | 4952.1 | 4898.2 | 4800.0 | 4793.6 | 4907.7 | 4882.3 | 4638.4 | 4571.9 | 4594.0 | 4666.9 | 4689.1 |
| 47.5° | 5062.9 | 5091.5 | 5034.4 | 5050.3 | 5110.5 | 5050.3 | 4857.0 | 4857.0 | 4806.3 | 4850.7 | 4828.5 |
| 50° | 5382.9 | 5294.2 | 5367.1 | 5367.1 | 5430.5 | 5436.8 | 5243.5 | 5173.8 | 5037.6 | 4961.6 | 4961.6 |
| 52.5° | 5756.8 | 5763.1 | 5791.6 | 5896.2 | 6003.9 | 6095.8 | 5820.2 | 5522.3 | 5294.2 | 5196.0 | 5183.3 |
| 55° | 6064.1 | 6127.5 | 6241.5 | 6438.0 | 6748.5 | 6875.2 | 6400.0 | 5867.7 | 5588.9 | 5436.8 | 5405.1 |
| 56° | 6232.0 | 6171.8 | 6368.3 | 6637.6 | 7043.1 | 7207.9 | 6495.0 | 5937.4 | 5630.1 | 5459.0 | 5455.8 |
| 57.5° | 6070.5 | 6137.0 | 6273.2 | 6697.8 | 7195.2 | 7410.6 | 6529.9 | 5905.7 | 5465.3 | 5291.1 | 5306.9 |
| 60° | 4793.6 | 4857.0 | 5040.8 | 5516.0 | 6295.4 | 6463.3 | 5525.5 | 4869.7 | 4476.8 | 4226.5 | 4229.7 |
| 62.5° | 2712.1 | 2759.6 | 2902.2 | 3342.6 | 3827.3 | 3988.9 | 3443.9 | 3006.7 | 2734.2 | 2594.8 | 2550.5 |
| 65° | 998.0 | 979.0 | 1001.2 | 1226.1 | 1524.0 | 1660.2 | 1432.1 | 1210.3 | 1067.7 | 1017.0 | 998.0 |
| 67.5° | 373.9 | 345.3 | 323.2 | 345.3 | 434.1 | 459.4 | 421.4 | 351.7 | 329.5 | 339.0 | 345.3 |
| 70° | 231.3 | 218.6 | 174.3 | 164.8 | 161.6 | 158.4 | 167.9 | 177.4 | 202.8 | 237.6 | 244.0 |
| 72.5° | 161.6 | 152.1 | 123.6 | 117.2 | 110.9 | 107.7 | 123.6 | 136.2 | 158.4 | 183.8 | 186.9 |
| 75° | 63.4 | 66.5 | 63.4 | 69.7 | 72.9 | 76.0 | 88.7 | 98.2 | 107.7 | 107.7 | 104.6 |
| 77.5° | 12.7 | 12.7 | 19.0 | 25.3 | 31.7 | 41.2 | 60.2 | 69.7 | 72.9 | 69.7 | 60.2 |
| 80° | 0.0 | 0.0 | 6.3 | 12.7 | 25.3 | 34.9 | 53.9 | 60.2 | 66.5 | 60.2 | 47.5 |
| 82.5° | 0.0 | 0.0 | 6.3 | 15.8 | 25.3 | 31.7 | 50.7 | 63.4 | 72.9 | 66.5 | 50.7 |
| 85° | 0.0 | 0.0 | 6.3 | 12.7 | 19.0 | 22.2 | 22.2 | 15.8 | 15.8 | 9.5 | 6.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)