

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: P952159

Luminaire Tested: **GALN-SB6A-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26423 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

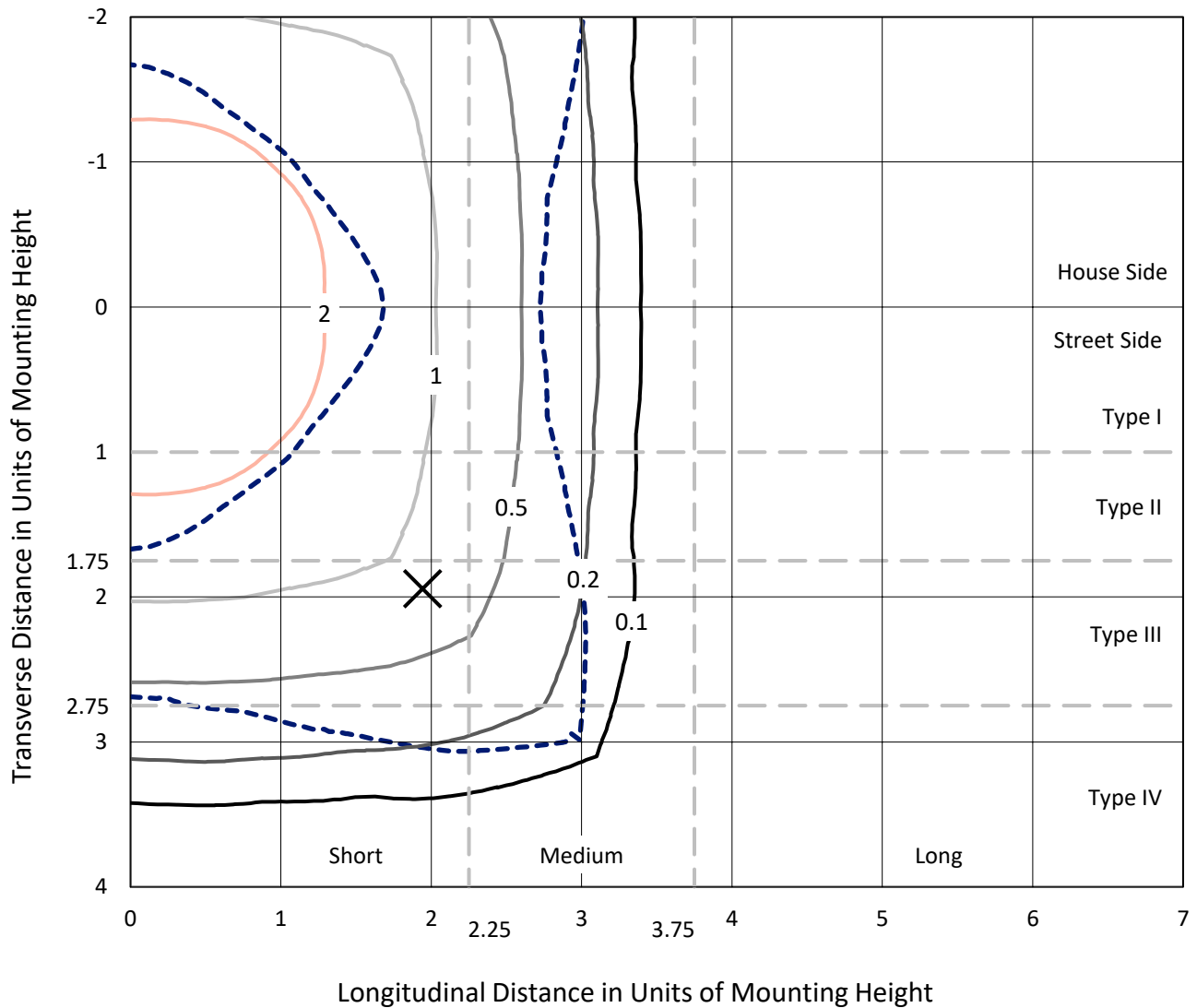
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

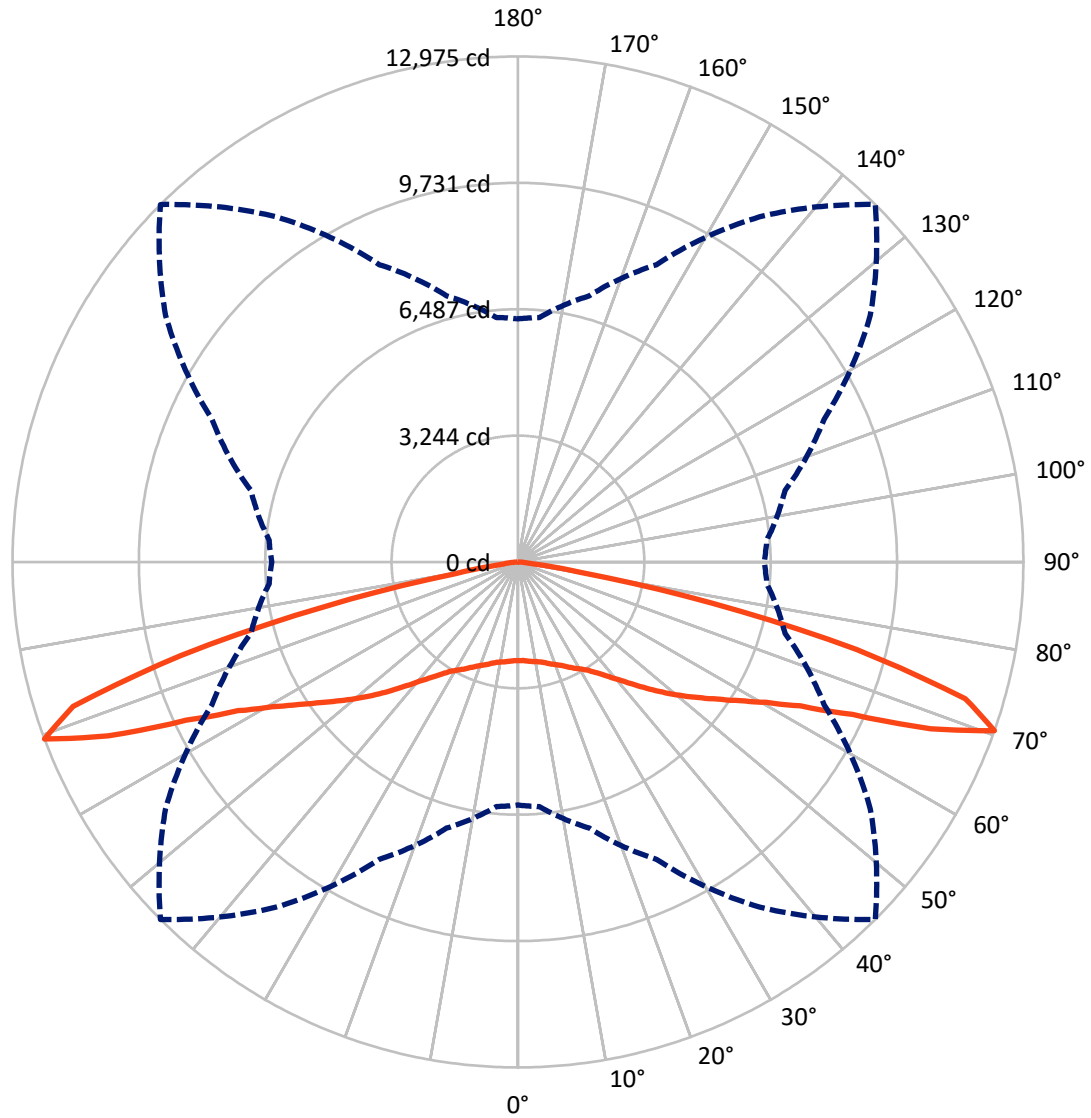
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13211.5 | 0.0 | 13211.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13211.5 | 0.0 | 13211.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26423.0 | 0.0 | 26423.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.9 | 0.9 |
| 10°-20° | 762.5 | 2.9 |
| 20°-30° | 1362.6 | 5.2 |
| 30°-40° | 2208.8 | 8.4 |
| 40°-50° | 3597.8 | 13.6 |
| 50°-60° | 5485.5 | 20.8 |
| 60°-70° | 8160.6 | 30.9 |
| 70°-80° | 4447.8 | 16.8 |
| 80°-90° | 151.5 | 0.6 |
| 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° | 26423.0 | 100.0 |
| 0°-180° | 26423.0 | 100.0 |

Coefficient of Utilization



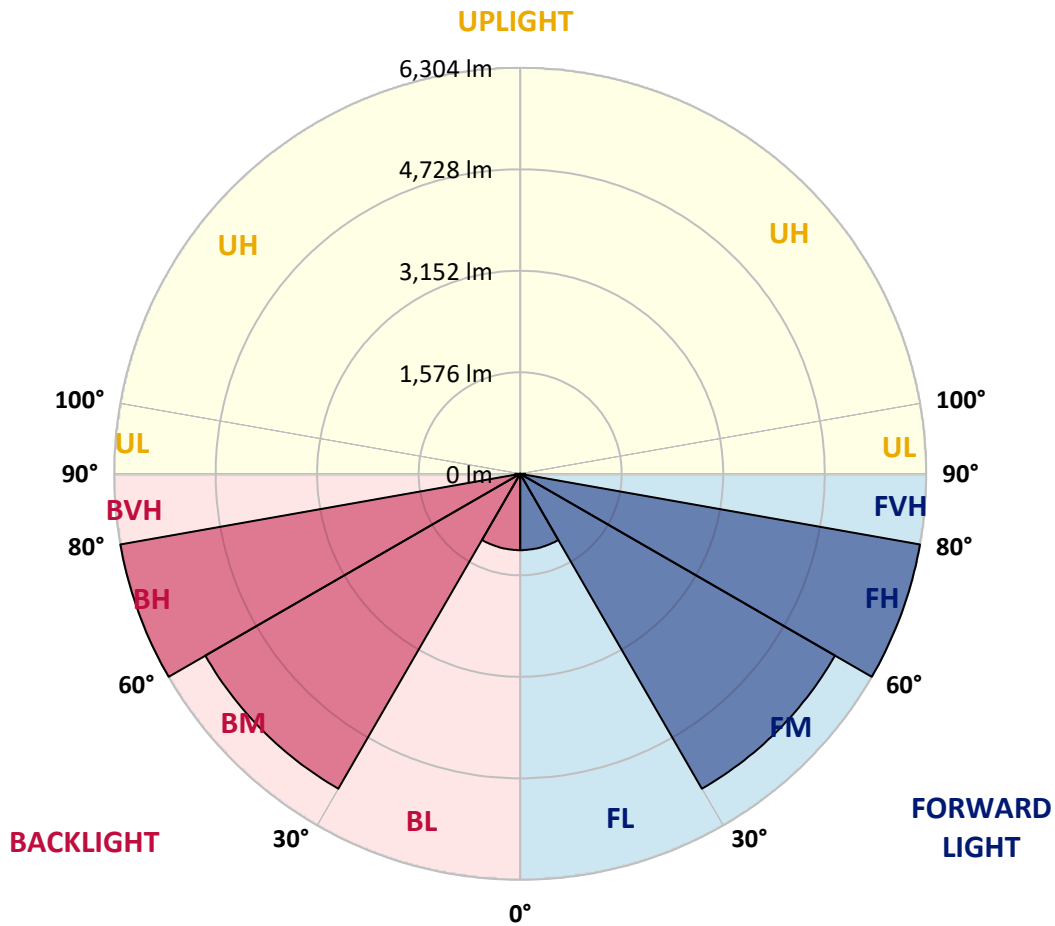
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1185.5 | 4.5 | | | |
| FM (30°-60°) | 5646.1 | 21.4 | | | |
| FH (60°-80°) | 6304.2 | 23.9 | | | G3/7500 |
| FVH (80°-90°) | 75.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1185.5 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 5646.1 | 21.4 | B4/8500 | | |
| BH (60°-80°) | 6304.2 | 23.9 | B5 | | G3/7500 |
| BVH (80°-90°) | 75.7 | 0.3 | | | 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° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2531.0 | 2531.0 | 2531.0 | 2531.0 | 2531.0 | 2531.0 | 2531.0 | 2531.0 | 2531.0 | 2531.0 |
| 2.5° | 2543.0 | 2545.6 | 2540.3 | 2537.7 | 2535.0 | 2531.0 | 2532.4 | 2539.0 | 2544.3 | 2543.0 |
| 5° | 2564.2 | 2566.9 | 2562.9 | 2561.6 | 2556.3 | 2554.9 | 2554.9 | 2561.6 | 2565.5 | 2562.9 |
| 7.5° | 2588.1 | 2592.1 | 2585.4 | 2584.1 | 2581.5 | 2578.8 | 2577.5 | 2584.1 | 2588.1 | 2588.1 |
| 10° | 2610.6 | 2614.6 | 2609.3 | 2605.3 | 2602.7 | 2602.7 | 2600.0 | 2605.3 | 2612.0 | 2610.6 |
| 12.5° | 2634.5 | 2637.2 | 2631.9 | 2629.2 | 2629.2 | 2633.2 | 2629.2 | 2631.9 | 2637.2 | 2634.5 |
| 15° | 2663.7 | 2665.0 | 2663.7 | 2667.7 | 2674.3 | 2687.6 | 2675.6 | 2673.0 | 2675.6 | 2669.0 |
| 17.5° | 2703.5 | 2706.2 | 2711.5 | 2720.7 | 2730.0 | 2753.9 | 2732.7 | 2726.1 | 2726.1 | 2712.8 |
| 20° | 2752.6 | 2756.6 | 2764.5 | 2780.4 | 2792.4 | 2814.9 | 2793.7 | 2784.4 | 2780.4 | 2763.2 |
| 22.5° | 2804.3 | 2811.0 | 2822.9 | 2844.1 | 2865.3 | 2886.6 | 2865.3 | 2849.4 | 2837.5 | 2814.9 |
| 25° | 2864.0 | 2872.0 | 2890.5 | 2925.0 | 2954.2 | 2984.7 | 2959.5 | 2927.7 | 2903.8 | 2872.0 |
| 27.5° | 2948.9 | 2958.2 | 2980.7 | 3023.2 | 3060.3 | 3086.9 | 3063.0 | 3021.9 | 2988.7 | 2950.2 |
| 30° | 3068.3 | 3077.6 | 3104.1 | 3149.2 | 3174.4 | 3191.7 | 3175.8 | 3143.9 | 3104.1 | 3060.3 |
| 32.5° | 3222.2 | 3234.1 | 3263.3 | 3305.8 | 3311.1 | 3313.7 | 3308.4 | 3292.5 | 3263.3 | 3210.2 |
| 35° | 3417.2 | 3430.4 | 3463.6 | 3498.1 | 3492.8 | 3498.1 | 3490.1 | 3484.8 | 3463.6 | 3402.6 |
| 37.5° | 3656.0 | 3671.9 | 3706.4 | 3732.9 | 3719.6 | 3713.0 | 3714.3 | 3715.7 | 3703.7 | 3636.1 |
| 40° | 3933.2 | 3954.4 | 3979.6 | 4007.5 | 3984.9 | 3965.0 | 3978.3 | 3988.9 | 3978.3 | 3909.3 |
| 42.5° | 4218.4 | 4248.9 | 4275.5 | 4315.3 | 4296.7 | 4271.5 | 4290.1 | 4302.0 | 4279.4 | 4205.2 |
| 45° | 4535.5 | 4564.6 | 4599.1 | 4658.8 | 4645.6 | 4619.0 | 4645.6 | 4648.2 | 4609.7 | 4522.2 |
| 47.5° | 4863.1 | 4893.6 | 4945.4 | 5025.0 | 5019.7 | 4990.5 | 5025.0 | 5006.4 | 4957.3 | 4852.5 |
| 50° | 5173.5 | 5216.0 | 5295.6 | 5407.0 | 5417.6 | 5381.8 | 5428.2 | 5392.4 | 5310.2 | 5178.8 |
| 52.5° | 5465.4 | 5510.5 | 5636.5 | 5787.7 | 5826.2 | 5779.8 | 5842.1 | 5779.8 | 5656.4 | 5487.9 |
| 55° | 5771.8 | 5822.2 | 5972.1 | 6169.8 | 6246.7 | 6212.2 | 6270.6 | 6176.4 | 6001.3 | 5797.0 |
| 57.5° | 6132.6 | 6163.1 | 6342.2 | 6577.0 | 6707.0 | 6715.0 | 6741.5 | 6582.3 | 6370.1 | 6137.9 |
| 60° | 6524.0 | 6566.4 | 6761.4 | 7042.6 | 7248.2 | 7314.6 | 7286.7 | 7050.6 | 6803.9 | 6537.2 |
| 62.5° | 7025.4 | 7071.8 | 7305.3 | 7642.2 | 7967.2 | 8131.7 | 8023.0 | 7680.7 | 7375.6 | 7055.9 |
| 65° | 7440.6 | 7492.3 | 7914.2 | 8515.1 | 9106.7 | 9437.0 | 9163.8 | 8533.7 | 7984.5 | 7533.5 |
| 67.5° | 7139.5 | 7203.1 | 7865.1 | 8968.8 | 10439.9 | 11425.5 | 10490.3 | 9104.1 | 8028.3 | 7416.7 |
| 70° | 6240.1 | 6299.8 | 7071.8 | 8420.9 | 10815.3 | 12974.9 | 11040.8 | 8669.0 | 7097.0 | 6412.5 |
| 72.5° | 4142.8 | 4335.2 | 5116.5 | 6734.9 | 9657.3 | 12006.6 | 9752.8 | 6598.2 | 4746.4 | 4133.5 |
| 75° | 1374.3 | 1528.2 | 2061.5 | 3491.5 | 6468.2 | 8979.4 | 6157.8 | 3089.5 | 1633.0 | 1175.3 |
| 77.5° | 346.2 | 399.3 | 550.5 | 998.9 | 2580.1 | 5112.5 | 2322.8 | 815.8 | 444.4 | 310.4 |
| 80° | 168.5 | 185.7 | 265.3 | 333.0 | 646.0 | 1625.0 | 606.2 | 313.1 | 209.6 | 161.8 |
| 82.5° | 92.9 | 94.2 | 149.9 | 188.4 | 240.1 | 420.5 | 249.4 | 183.1 | 120.7 | 98.2 |
| 85° | 57.0 | 55.7 | 79.6 | 100.8 | 100.8 | 149.9 | 119.4 | 100.8 | 69.0 | 61.0 |
| 87.5° | 22.6 | 22.6 | 29.2 | 31.8 | 27.9 | 38.5 | 30.5 | 33.2 | 26.5 | 25.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2531.0 |
| 2544.3 |
| 2564.2 |
| 2588.1 |
| 2610.6 |
| 2633.2 |
| 2669.0 |
| 2712.8 |
| 2763.2 |
| 2813.6 |
| 2870.6 |
| 2948.9 |
| 3060.3 |
| 3211.6 |
| 3402.6 |
| 3636.1 |
| 3909.3 |
| 4210.5 |
| 4531.5 |
| 4845.9 |
| 5176.2 |
| 5472.0 |
| 5769.1 |
| 6106.1 |
| 6494.8 |
| 7000.2 |
| 7459.2 |
| 7325.2 |
| 6321.0 |
| 3999.5 |
| 1111.6 |
| 277.2 |
| 148.6 |
| 98.2 |
| 63.7 |
| 26.5 |
| 0.0 |

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