

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: P531059

Luminaire Tested: **GALN-SA6B-750-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531059
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-SA6B-750-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 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: 17601 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

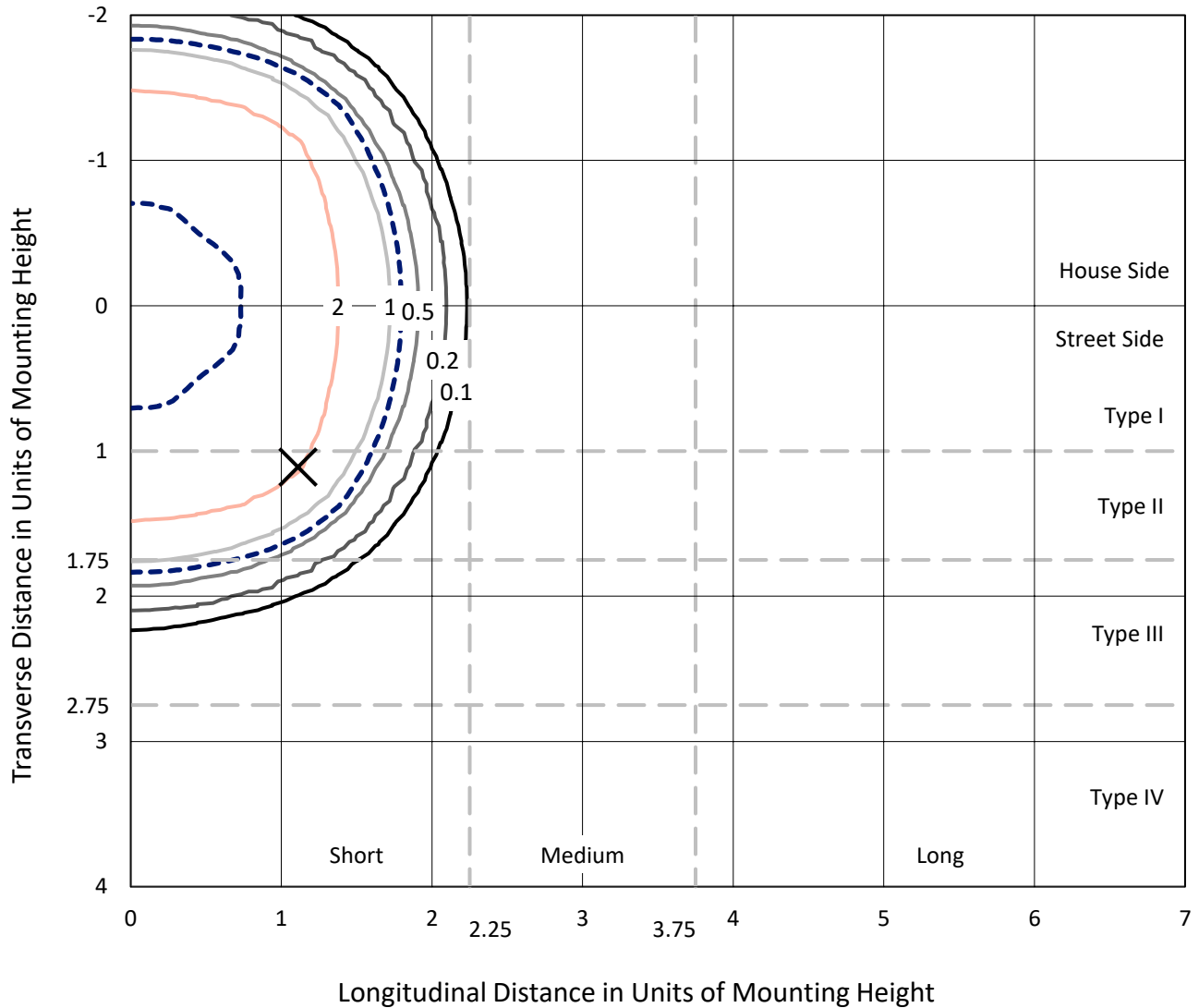
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

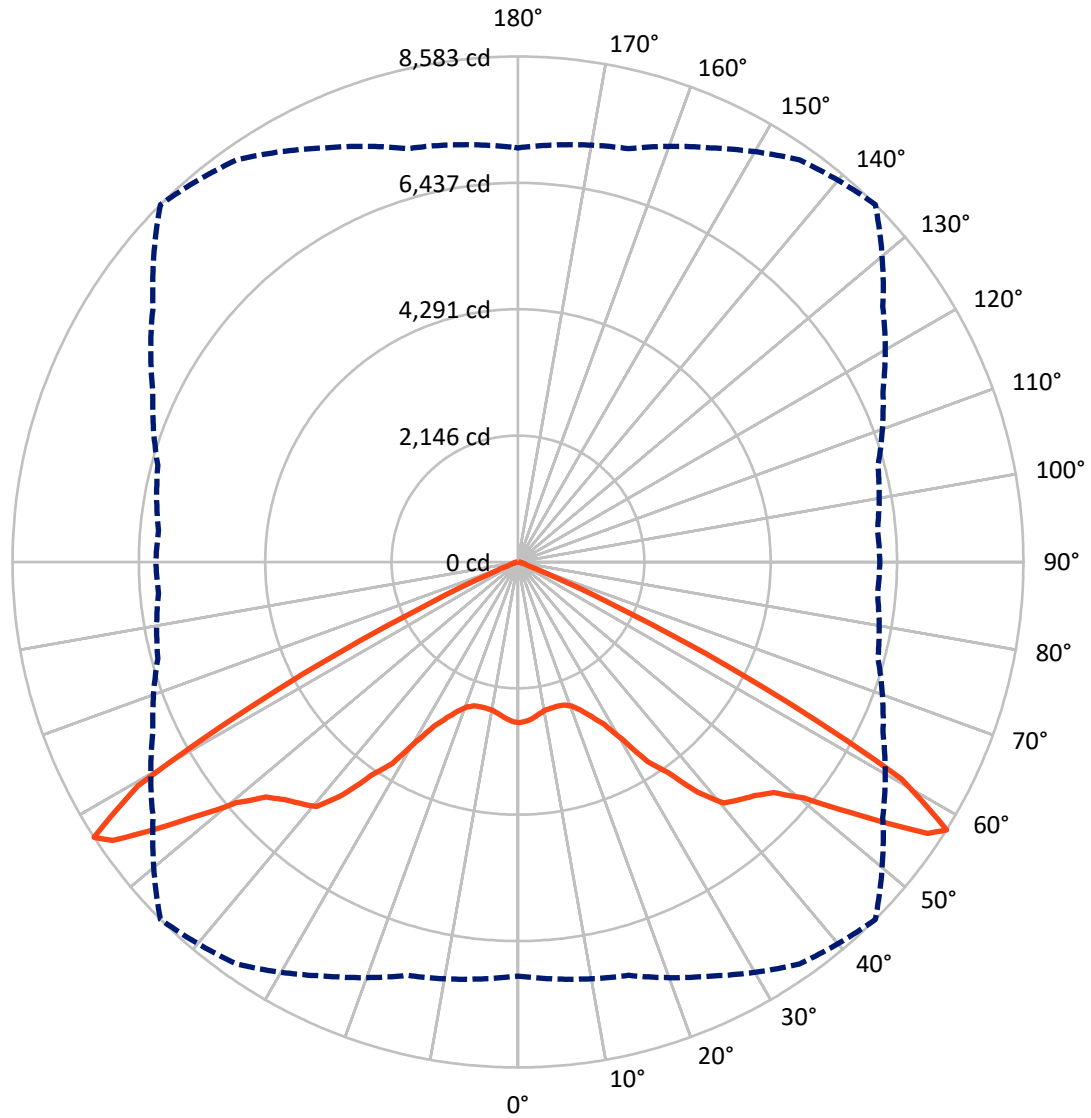
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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 | 8800.5 | 0.0 | 8800.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8800.5 | 0.0 | 8800.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17601.0 | 0.0 | 17601.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 250.9 | 1.4 |
| 10°-20° | 725.2 | 4.1 |
| 20°-30° | 1338.6 | 7.6 |
| 30°-40° | 2632.4 | 15.0 |
| 40°-50° | 4287.5 | 24.4 |
| 50°-60° | 6114.5 | 34.7 |
| 60°-70° | 2117.0 | 12.0 |
| 70°-80° | 113.6 | 0.6 |
| 80°-90° | 21.3 | 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° | 17601.0 | 100.0 |
| 0°-180° | 17601.0 | 100.0 |

Coefficient of Utilization

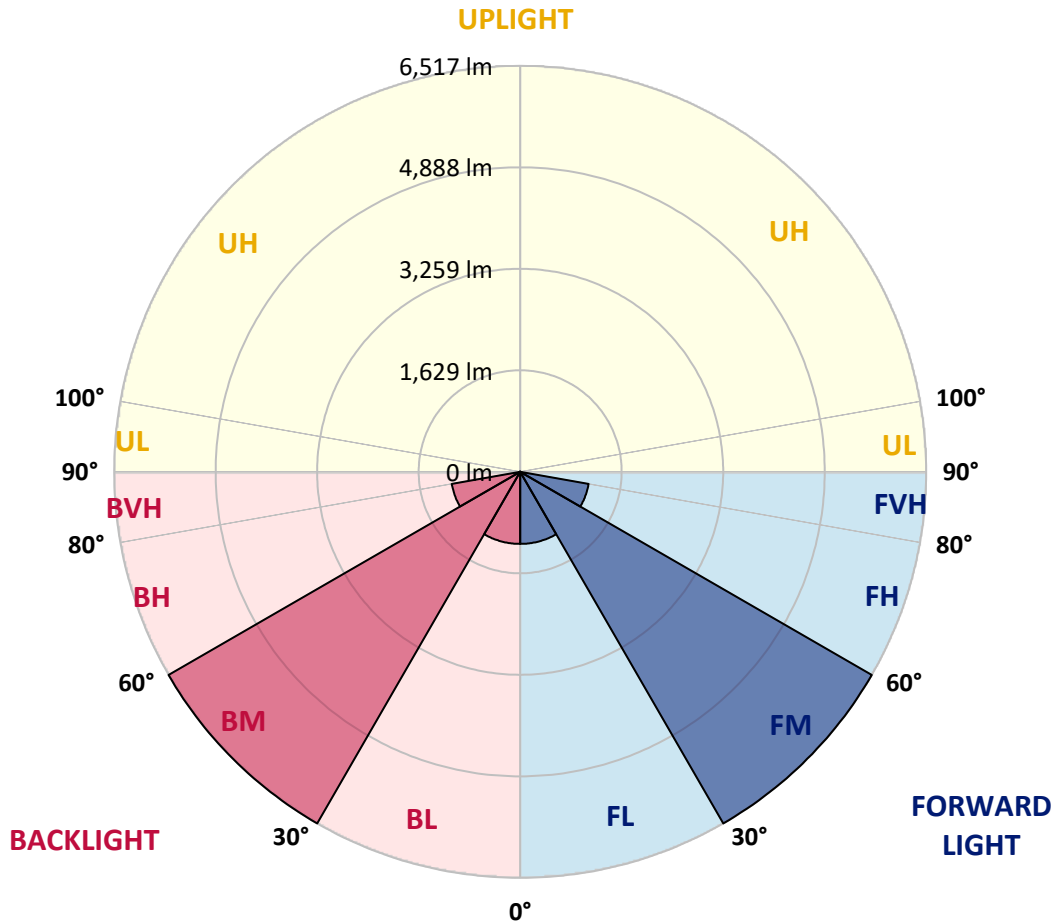


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1157.3 | 6.6 | | | |
| FM (30°-60°) | 6517.2 | 37.0 | | | |
| FH (60°-80°) | 1115.3 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 10.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1157.3 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 6517.2 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1115.3 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 10.7 | 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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 | 2730.1 |
| 2.5° | 2722.8 | 2737.4 | 2719.1 | 2711.8 | 2708.1 | 2708.1 | 2697.1 | 2697.1 | 2693.4 | 2697.1 | 2682.4 |
| 5° | 2678.7 | 2693.4 | 2693.4 | 2689.7 | 2667.7 | 2664.0 | 2653.0 | 2645.7 | 2649.4 | 2634.7 | 2645.7 |
| 7.5° | 2634.7 | 2645.7 | 2631.0 | 2627.4 | 2620.0 | 2605.3 | 2601.7 | 2568.6 | 2572.3 | 2572.3 | 2579.7 |
| 10° | 2627.4 | 2623.7 | 2601.7 | 2583.3 | 2561.3 | 2557.6 | 2546.6 | 2539.3 | 2539.3 | 2535.6 | 2546.6 |
| 12.5° | 2627.4 | 2609.0 | 2605.3 | 2565.0 | 2528.3 | 2543.0 | 2513.6 | 2495.3 | 2520.9 | 2528.3 | 2543.0 |
| 15° | 2623.7 | 2642.0 | 2579.7 | 2561.3 | 2535.6 | 2539.3 | 2513.6 | 2495.3 | 2509.9 | 2517.3 | 2528.3 |
| 17.5° | 2645.7 | 2634.7 | 2616.3 | 2579.7 | 2568.6 | 2554.0 | 2520.9 | 2506.3 | 2506.3 | 2524.6 | 2528.3 |
| 20° | 2704.4 | 2675.1 | 2638.4 | 2620.0 | 2631.0 | 2612.7 | 2572.3 | 2517.3 | 2531.9 | 2546.6 | 2557.6 |
| 22.5° | 2759.5 | 2737.4 | 2711.8 | 2700.7 | 2763.1 | 2733.8 | 2664.0 | 2601.7 | 2579.7 | 2605.3 | 2623.7 |
| 25° | 2865.9 | 2865.9 | 2818.2 | 2832.8 | 2902.6 | 2906.2 | 2825.5 | 2715.4 | 2700.7 | 2711.8 | 2719.1 |
| 27.5° | 3082.4 | 3093.4 | 3053.0 | 3067.7 | 3097.0 | 3122.7 | 3053.0 | 2961.3 | 2928.3 | 2924.6 | 2935.6 |
| 30° | 3317.2 | 3339.2 | 3335.6 | 3397.9 | 3482.3 | 3497.0 | 3394.3 | 3243.8 | 3144.8 | 3126.4 | 3141.1 |
| 32.5° | 3625.5 | 3636.5 | 3629.1 | 3702.5 | 3930.0 | 4036.4 | 3768.6 | 3555.7 | 3423.6 | 3456.7 | 3423.6 |
| 35° | 4205.2 | 4194.2 | 4113.5 | 4128.2 | 4315.3 | 4392.4 | 4135.5 | 3999.7 | 3937.4 | 4003.4 | 3988.7 |
| 37.5° | 4704.3 | 4663.9 | 4597.9 | 4693.3 | 4887.8 | 4957.5 | 4689.6 | 4451.1 | 4337.3 | 4447.4 | 4495.1 |
| 40° | 5126.3 | 5023.5 | 4931.8 | 5027.2 | 5287.7 | 5383.1 | 4990.5 | 4796.0 | 4752.0 | 4832.7 | 4935.5 |
| 42.5° | 5482.2 | 5416.2 | 5295.1 | 5302.4 | 5474.9 | 5518.9 | 5203.3 | 5089.6 | 5045.5 | 5174.0 | 5225.4 |
| 45° | 5735.4 | 5673.0 | 5559.3 | 5551.9 | 5684.0 | 5654.7 | 5372.1 | 5295.1 | 5320.8 | 5405.2 | 5430.8 |
| 47.5° | 5863.8 | 5896.9 | 5830.8 | 5849.2 | 5918.9 | 5849.2 | 5625.3 | 5625.3 | 5566.6 | 5618.0 | 5592.3 |
| 50° | 6234.5 | 6131.7 | 6216.1 | 6216.1 | 6289.5 | 6296.8 | 6073.0 | 5992.3 | 5834.5 | 5746.4 | 5746.4 |
| 52.5° | 6667.5 | 6674.8 | 6707.8 | 6828.9 | 6953.7 | 7060.1 | 6740.9 | 6395.9 | 6131.7 | 6018.0 | 6003.3 |
| 55° | 7023.4 | 7096.8 | 7228.9 | 7456.4 | 7816.0 | 7962.8 | 7412.4 | 6795.9 | 6473.0 | 6296.8 | 6260.1 |
| 56° | 7217.9 | 7148.2 | 7375.7 | 7687.6 | 8157.3 | 8348.1 | 7522.5 | 6876.6 | 6520.7 | 6322.5 | 6318.9 |
| 57.5° | 7030.7 | 7107.8 | 7265.6 | 7757.3 | 8333.4 | 8582.9 | 7562.8 | 6839.9 | 6329.9 | 6128.0 | 6146.4 |
| 60° | 5551.9 | 5625.3 | 5838.2 | 6388.6 | 7291.3 | 7485.8 | 6399.6 | 5640.0 | 5185.0 | 4895.1 | 4898.8 |
| 62.5° | 3141.1 | 3196.1 | 3361.3 | 3871.3 | 4432.7 | 4619.9 | 3988.7 | 3482.3 | 3166.8 | 3005.3 | 2953.9 |
| 65° | 1155.9 | 1133.9 | 1159.6 | 1420.1 | 1765.0 | 1922.8 | 1658.6 | 1401.7 | 1236.6 | 1177.9 | 1155.9 |
| 67.5° | 433.0 | 400.0 | 374.3 | 400.0 | 502.7 | 532.1 | 488.0 | 407.3 | 381.6 | 392.6 | 400.0 |
| 70° | 267.9 | 253.2 | 201.8 | 190.8 | 187.1 | 183.5 | 194.5 | 205.5 | 234.8 | 275.2 | 282.6 |
| 72.5° | 187.1 | 176.1 | 143.1 | 135.8 | 128.4 | 124.8 | 143.1 | 157.8 | 183.5 | 212.8 | 216.5 |
| 75° | 73.4 | 77.1 | 73.4 | 80.7 | 84.4 | 88.1 | 102.7 | 113.8 | 124.8 | 124.8 | 121.1 |
| 77.5° | 14.7 | 14.7 | 22.0 | 29.4 | 36.7 | 47.7 | 69.7 | 80.7 | 84.4 | 80.7 | 69.7 |
| 80° | 0.0 | 0.0 | 7.3 | 14.7 | 29.4 | 40.4 | 62.4 | 69.7 | 77.1 | 69.7 | 55.0 |
| 82.5° | 0.0 | 0.0 | 7.3 | 18.3 | 29.4 | 36.7 | 58.7 | 73.4 | 84.4 | 77.1 | 58.7 |
| 85° | 0.0 | 0.0 | 7.3 | 14.7 | 22.0 | 25.7 | 25.7 | 18.3 | 18.3 | 11.0 | 7.3 |
| 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)