

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: P531011

Luminaire Tested: **GALN-SA6B-735-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20313 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

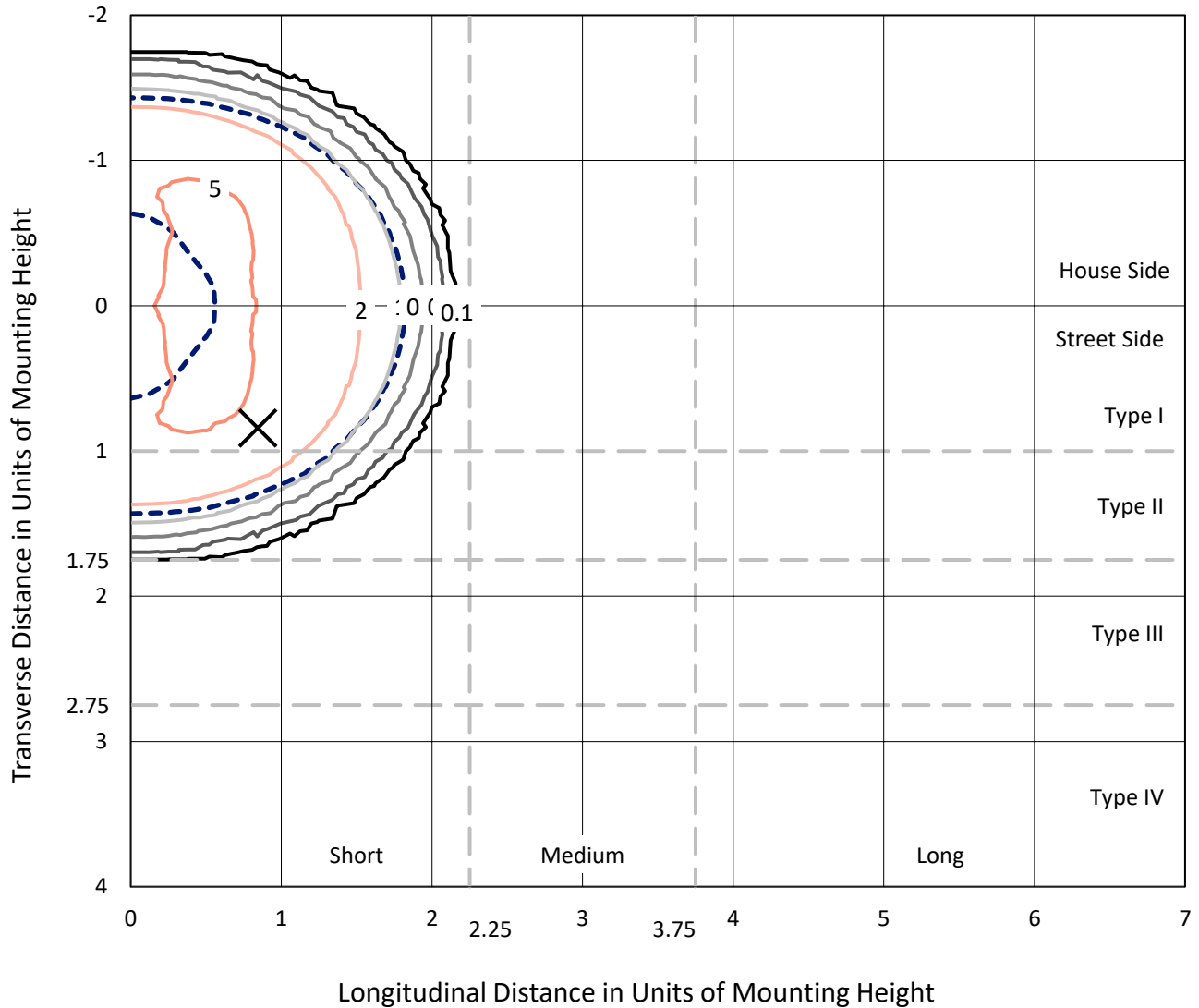
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

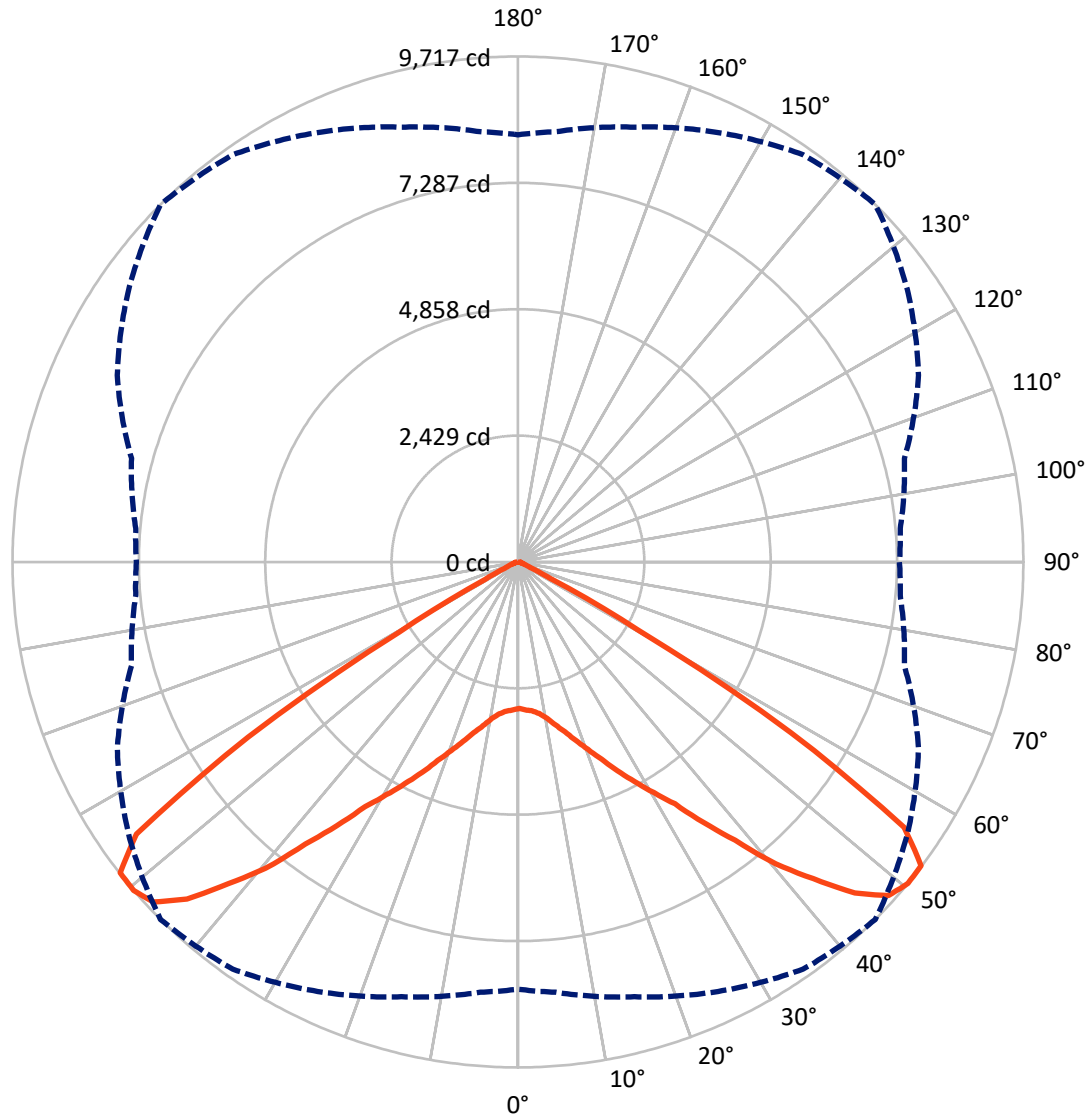
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10156.5 | 0.0 | 10156.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10156.5 | 0.0 | 10156.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20313.0 | 0.0 | 20313.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 280.2 | 1.4 |
| 10°-20° | 965.6 | 4.8 |
| 20°-30° | 1972.2 | 9.7 |
| 30°-40° | 3760.9 | 18.5 |
| 40°-50° | 6337.7 | 31.2 |
| 50°-60° | 6044.1 | 29.8 |
| 60°-70° | 843.7 | 4.2 |
| 70°-80° | 80.7 | 0.4 |
| 80°-90° | 27.9 | 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° | 20313.0 | 100.0 |
| 0°-180° | 20313.0 | 100.0 |

Coefficient of Utilization



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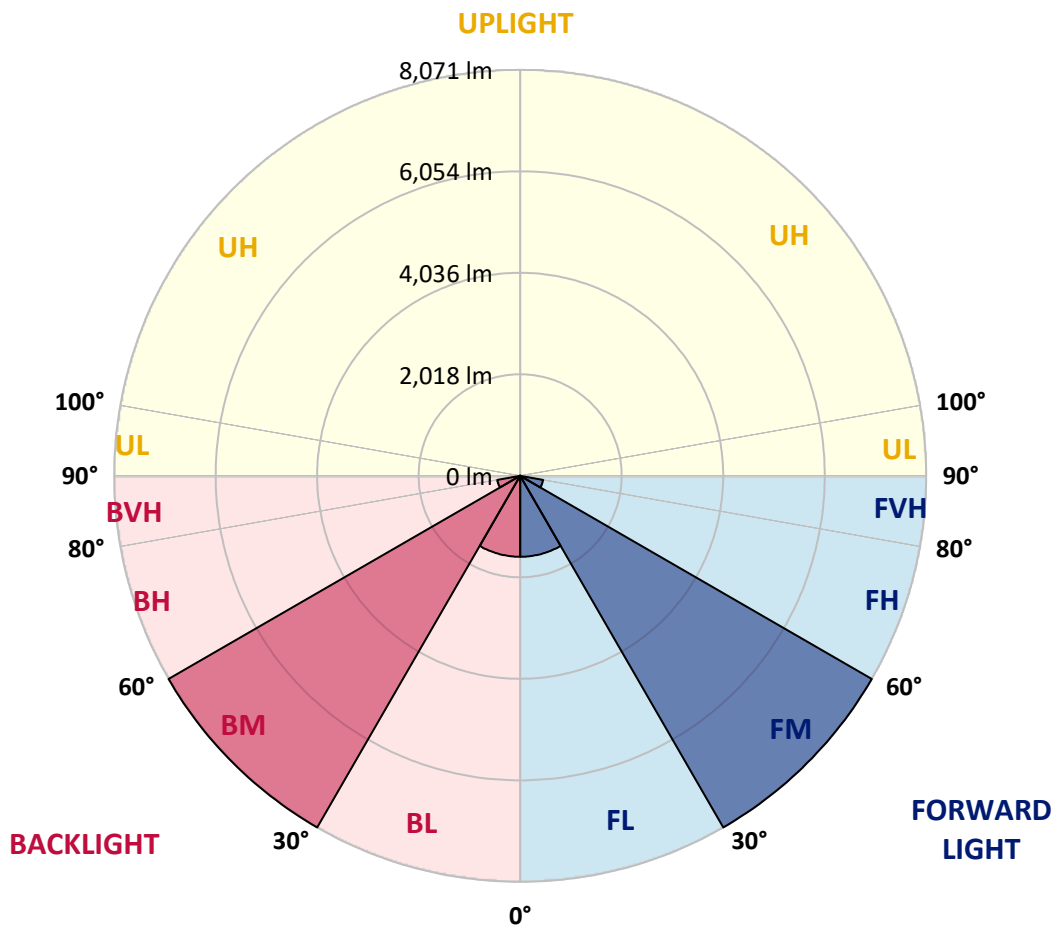
CATALOG NUMBER: GALN-SA6B-735-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1609.0 | 7.9 | | | |
| FM (30°-60°) | 8071.4 | 39.7 | | | |
| FH (60°-80°) | 462.2 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 13.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1609.0 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 8071.4 | 39.7 | B4/8500 | | |
| BH (60°-80°) | 462.2 | 2.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 13.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 | 2816.2 |
| 2.5° | 2805.9 | 2805.9 | 2802.5 | 2829.8 | 2816.2 | 2846.9 | 2843.5 | 2853.8 | 2864.0 | 2860.6 | 2887.9 |
| 5° | 2782.0 | 2778.6 | 2778.6 | 2809.3 | 2840.1 | 2874.3 | 2905.0 | 2925.5 | 2959.7 | 2959.7 | 2993.9 |
| 7.5° | 2805.9 | 2788.8 | 2812.8 | 2826.4 | 2884.5 | 2942.6 | 2993.9 | 3034.9 | 3113.5 | 3140.9 | 3130.6 |
| 10° | 2812.8 | 2833.3 | 2850.4 | 2891.4 | 2963.1 | 3052.0 | 3096.4 | 3199.0 | 3287.8 | 3349.3 | 3363.0 |
| 12.5° | 2857.2 | 2887.9 | 2935.8 | 3034.9 | 3099.8 | 3216.0 | 3277.6 | 3376.7 | 3499.7 | 3568.1 | 3615.9 |
| 15° | 2942.6 | 2952.9 | 3014.4 | 3140.9 | 3281.0 | 3386.9 | 3482.6 | 3554.4 | 3674.0 | 3752.6 | 3756.0 |
| 17.5° | 3052.0 | 3096.4 | 3181.9 | 3301.5 | 3448.4 | 3605.7 | 3680.8 | 3759.5 | 3803.9 | 3909.8 | 3933.8 |
| 20° | 3270.7 | 3277.6 | 3359.6 | 3516.8 | 3701.4 | 3844.9 | 3899.6 | 3940.6 | 3923.5 | 4032.9 | 4053.4 |
| 22.5° | 3475.8 | 3482.6 | 3585.2 | 3797.1 | 3995.3 | 4118.3 | 4142.2 | 4118.3 | 4067.0 | 4145.7 | 4152.5 |
| 25° | 3684.3 | 3745.8 | 3821.0 | 4032.9 | 4278.9 | 4443.0 | 4446.4 | 4381.5 | 4275.5 | 4289.2 | 4323.4 |
| 27.5° | 4008.9 | 4053.4 | 4132.0 | 4326.8 | 4596.8 | 4781.3 | 4750.6 | 4672.0 | 4535.3 | 4545.5 | 4535.3 |
| 30° | 4388.3 | 4429.3 | 4494.3 | 4743.7 | 4942.0 | 5143.6 | 5188.0 | 5112.9 | 4907.8 | 4863.4 | 4914.6 |
| 32.5° | 4846.3 | 4904.4 | 5024.0 | 5253.0 | 5420.5 | 5543.5 | 5574.2 | 5546.9 | 5355.5 | 5338.4 | 5372.6 |
| 35° | 5403.4 | 5482.0 | 5591.3 | 5793.0 | 5929.7 | 6151.8 | 6151.8 | 6059.6 | 5885.3 | 5905.8 | 5902.3 |
| 37.5° | 5991.2 | 6107.4 | 6278.3 | 6483.4 | 6667.9 | 6787.5 | 6749.9 | 6671.3 | 6497.0 | 6452.6 | 6497.0 |
| 40° | 6729.4 | 6787.5 | 7002.8 | 7269.4 | 7495.0 | 7631.7 | 7471.1 | 7300.2 | 6883.2 | 6948.2 | 7067.8 |
| 42.5° | 7402.7 | 7495.0 | 7659.0 | 7953.0 | 8209.3 | 8322.1 | 8130.7 | 7792.3 | 7289.9 | 7238.7 | 7327.5 |
| 45° | 7976.9 | 8076.0 | 8291.3 | 8711.7 | 8981.7 | 9080.8 | 8657.0 | 8110.2 | 7536.0 | 7406.1 | 7443.7 |
| 47.5° | 8359.7 | 8410.9 | 8711.7 | 9111.6 | 9357.6 | 9583.2 | 8974.8 | 8328.9 | 7652.2 | 7406.1 | 7392.5 |
| 50° | 8212.7 | 8301.6 | 8653.6 | 9108.1 | 9555.9 | 9716.5 | 9135.5 | 8496.4 | 7689.8 | 7375.4 | 7334.4 |
| 52.5° | 7293.3 | 7447.1 | 7840.2 | 8451.9 | 9128.6 | 9702.8 | 9357.6 | 8441.7 | 7676.1 | 7406.1 | 7467.6 |
| 55° | 5075.3 | 5078.7 | 5557.2 | 6459.4 | 7655.6 | 9009.0 | 9032.9 | 8503.2 | 7765.0 | 7597.5 | 7600.9 |
| 57.5° | 2040.4 | 2142.9 | 2508.6 | 3414.3 | 4518.2 | 6186.0 | 7354.9 | 7888.0 | 7775.2 | 7734.2 | 7840.2 |
| 60° | 516.1 | 519.5 | 632.3 | 963.8 | 1589.2 | 2652.1 | 3851.7 | 5212.0 | 6001.5 | 6271.5 | 6309.0 |
| 62.5° | 263.2 | 266.6 | 293.9 | 341.8 | 434.0 | 710.9 | 1264.5 | 2006.2 | 2853.8 | 3284.4 | 3397.2 |
| 65° | 215.3 | 215.3 | 232.4 | 256.3 | 259.7 | 273.4 | 328.1 | 468.2 | 680.1 | 772.4 | 782.7 |
| 67.5° | 164.0 | 164.0 | 177.7 | 191.4 | 198.2 | 194.8 | 188.0 | 194.8 | 235.8 | 225.6 | 218.7 |
| 70° | 102.5 | 105.9 | 112.8 | 126.5 | 133.3 | 136.7 | 140.1 | 147.0 | 167.5 | 174.3 | 167.5 |
| 72.5° | 61.5 | 61.5 | 64.9 | 75.2 | 85.4 | 92.3 | 102.5 | 109.4 | 119.6 | 136.7 | 133.3 |
| 75° | 27.3 | 27.3 | 34.2 | 44.4 | 54.7 | 64.9 | 75.2 | 85.4 | 92.3 | 102.5 | 105.9 |
| 77.5° | 6.8 | 10.3 | 17.1 | 30.8 | 41.0 | 54.7 | 68.4 | 78.6 | 85.4 | 85.4 | 82.0 |
| 80° | 3.4 | 3.4 | 13.7 | 23.9 | 44.4 | 58.1 | 75.2 | 82.0 | 92.3 | 85.4 | 75.2 |
| 82.5° | 3.4 | 3.4 | 13.7 | 23.9 | 41.0 | 58.1 | 78.6 | 88.9 | 95.7 | 85.4 | 71.8 |
| 85° | 0.0 | 3.4 | 10.3 | 20.5 | 34.2 | 41.0 | 34.2 | 23.9 | 13.7 | 13.7 | 10.3 |
| 87.5° | 0.0 | 0.0 | 3.4 | 3.4 | 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)