

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: P532831

Luminaire Tested: **GALN-SA8B-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532831
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-SA8B-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 24834 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

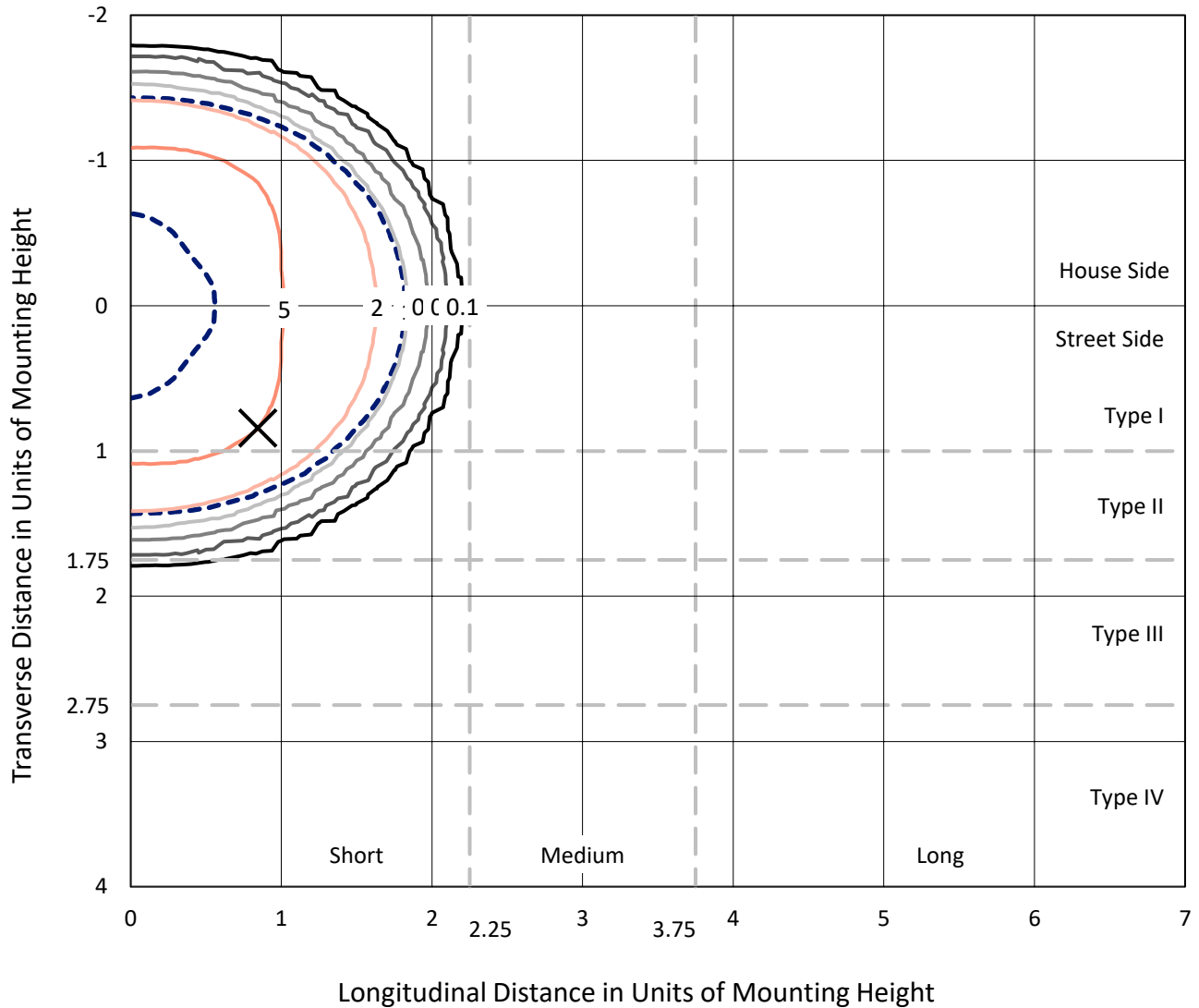
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

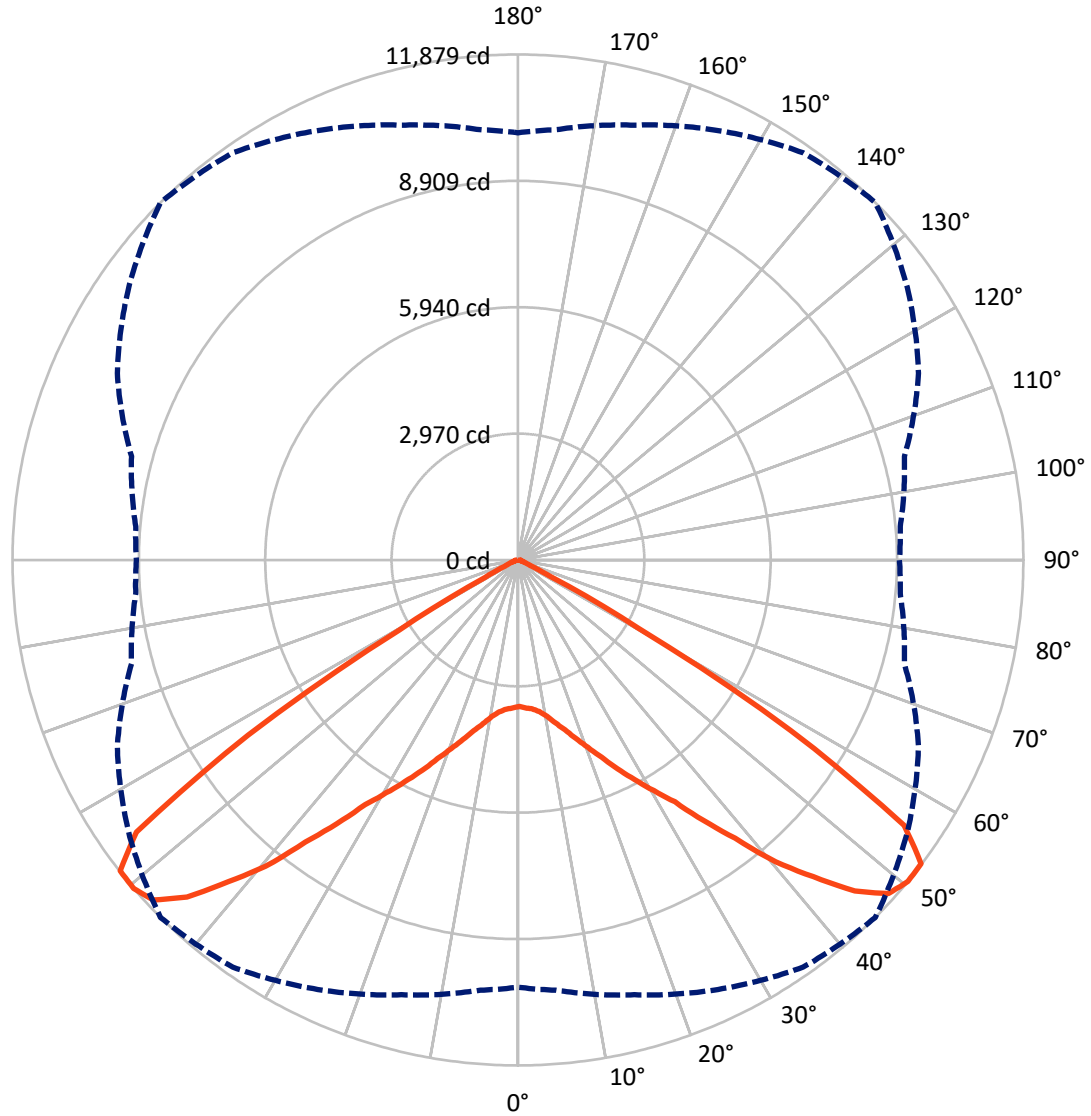
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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 | 12417.0 | 0.0 | 12417.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12417.0 | 0.0 | 12417.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 24834.0 | 0.0 | 24834.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.5 | 1.4 |
| 10°-20° | 1180.5 | 4.8 |
| 20°-30° | 2411.1 | 9.7 |
| 30°-40° | 4598.0 | 18.5 |
| 40°-50° | 7748.3 | 31.2 |
| 50°-60° | 7389.3 | 29.8 |
| 60°-70° | 1031.5 | 4.2 |
| 70°-80° | 98.7 | 0.4 |
| 80°-90° | 34.1 | 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° | 24834.0 | 100.0 |
| 0°-180° | 24834.0 | 100.0 |

Coefficient of Utilization



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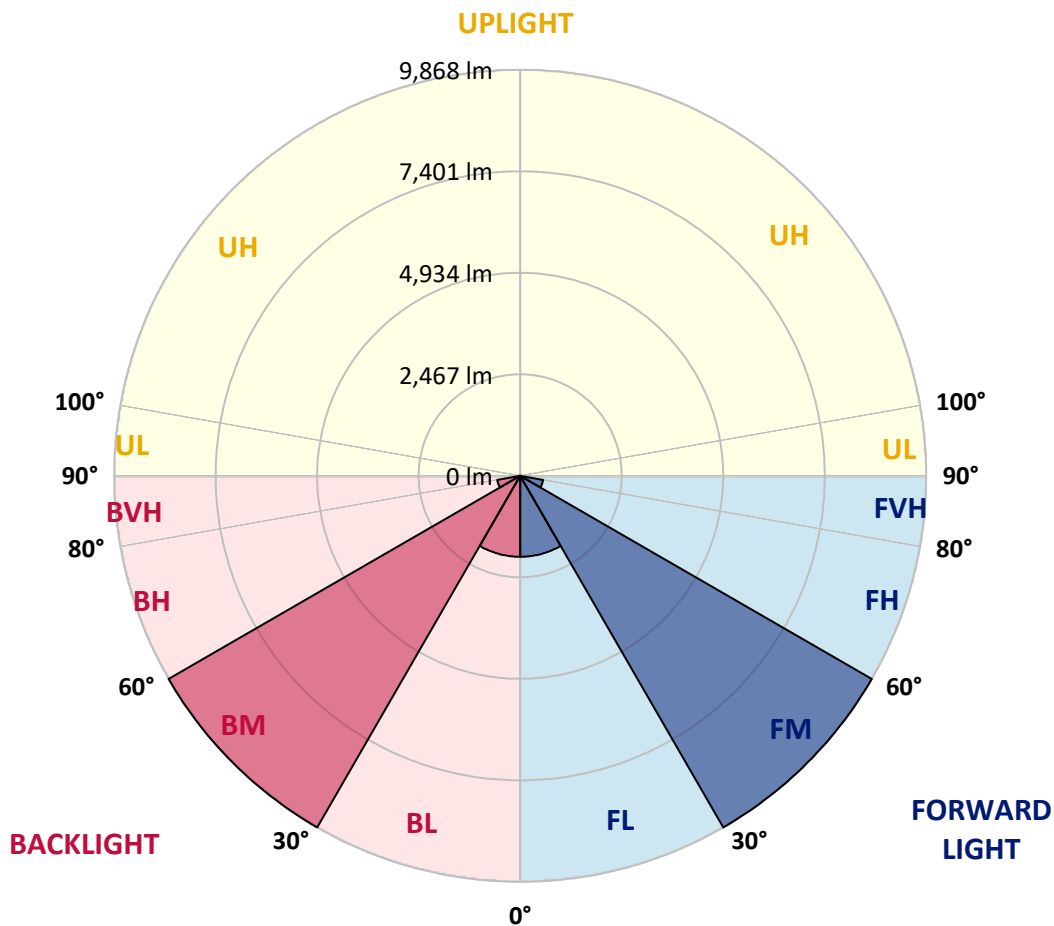
CATALOG NUMBER: GALN-SA8B-727-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1967.1 | 7.9 | | | |
| FM (30°-60°) | 9867.8 | 39.7 | | | |
| FH (60°-80°) | 565.1 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 17.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1967.1 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 9867.8 | 39.7 | B5 | | |
| BH (60°-80°) | 565.1 | 2.3 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 17.0 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 | 3443.0 |
| 2.5° | 3430.4 | 3430.4 | 3426.2 | 3459.7 | 3443.0 | 3480.6 | 3476.4 | 3488.9 | 3501.5 | 3497.3 | 3530.7 |
| 5° | 3401.2 | 3397.0 | 3397.0 | 3434.6 | 3472.2 | 3514.0 | 3551.6 | 3576.7 | 3618.5 | 3618.5 | 3660.2 |
| 7.5° | 3430.4 | 3409.5 | 3438.8 | 3455.5 | 3526.5 | 3597.6 | 3660.2 | 3710.4 | 3806.5 | 3839.9 | 3827.4 |
| 10° | 3438.8 | 3463.9 | 3484.7 | 3534.9 | 3622.6 | 3731.3 | 3785.6 | 3910.9 | 4019.6 | 4094.8 | 4111.5 |
| 12.5° | 3493.1 | 3530.7 | 3589.2 | 3710.4 | 3789.8 | 3931.8 | 4007.0 | 4128.2 | 4278.6 | 4362.2 | 4420.7 |
| 15° | 3597.6 | 3610.1 | 3685.3 | 3839.9 | 4011.2 | 4140.7 | 4257.7 | 4345.5 | 4491.7 | 4587.8 | 4592.0 |
| 17.5° | 3731.3 | 3785.6 | 3890.0 | 4036.3 | 4216.0 | 4408.2 | 4500.1 | 4596.2 | 4650.5 | 4780.0 | 4809.3 |
| 20° | 3998.7 | 4007.0 | 4107.3 | 4299.5 | 4525.2 | 4700.6 | 4767.5 | 4817.6 | 4796.7 | 4930.5 | 4955.5 |
| 22.5° | 4249.4 | 4257.7 | 4383.1 | 4642.1 | 4884.5 | 5034.9 | 5064.2 | 5034.9 | 4972.2 | 5068.3 | 5076.7 |
| 25° | 4504.3 | 4579.5 | 4671.4 | 4930.5 | 5231.3 | 5431.9 | 5436.0 | 5356.6 | 5227.1 | 5243.8 | 5285.6 |
| 27.5° | 4901.2 | 4955.5 | 5051.6 | 5289.8 | 5619.9 | 5845.5 | 5807.9 | 5711.8 | 5544.7 | 5557.2 | 5544.7 |
| 30° | 5365.0 | 5415.1 | 5494.5 | 5799.6 | 6041.9 | 6288.4 | 6342.7 | 6250.8 | 6000.1 | 5945.8 | 6008.5 |
| 32.5° | 5924.9 | 5995.9 | 6142.2 | 6422.1 | 6626.9 | 6777.3 | 6814.9 | 6781.5 | 6547.5 | 6526.6 | 6568.4 |
| 35° | 6606.0 | 6702.1 | 6835.8 | 7082.3 | 7249.4 | 7521.0 | 7521.0 | 7408.2 | 7195.1 | 7220.2 | 7216.0 |
| 37.5° | 7324.6 | 7466.7 | 7675.6 | 7926.3 | 8152.0 | 8298.2 | 8252.2 | 8156.1 | 7943.0 | 7888.7 | 7943.0 |
| 40° | 8227.2 | 8298.2 | 8561.4 | 8887.4 | 9163.1 | 9330.3 | 9133.9 | 8925.0 | 8415.2 | 8494.6 | 8640.8 |
| 42.5° | 9050.3 | 9163.1 | 9363.7 | 9723.0 | 10036.4 | 10174.3 | 9940.3 | 9526.6 | 8912.4 | 8849.7 | 8958.4 |
| 45° | 9752.3 | 9873.4 | 10136.7 | 10650.6 | 10980.7 | 11101.9 | 10583.8 | 9915.2 | 9213.3 | 9054.5 | 9100.4 |
| 47.5° | 10220.2 | 10282.9 | 10650.6 | 11139.5 | 11440.3 | 11716.1 | 10972.3 | 10182.6 | 9355.3 | 9054.5 | 9037.8 |
| 50° | 10040.6 | 10149.2 | 10579.6 | 11135.3 | 11682.7 | 11879.1 | 11168.7 | 10387.4 | 9401.3 | 9016.9 | 8966.7 |
| 52.5° | 8916.6 | 9104.6 | 9585.1 | 10333.1 | 11160.4 | 11862.3 | 11440.3 | 10320.5 | 9384.6 | 9054.5 | 9129.7 |
| 55° | 6204.9 | 6209.0 | 6794.0 | 7897.1 | 9359.5 | 11014.1 | 11043.4 | 10395.7 | 9493.2 | 9288.5 | 9292.7 |
| 57.5° | 2494.5 | 2619.8 | 3066.9 | 4174.2 | 5523.8 | 7562.8 | 8991.8 | 9643.6 | 9505.7 | 9455.6 | 9585.1 |
| 60° | 630.9 | 635.1 | 773.0 | 1178.3 | 1942.9 | 3242.4 | 4709.0 | 6372.0 | 7337.2 | 7667.3 | 7713.2 |
| 62.5° | 321.7 | 325.9 | 359.3 | 417.8 | 530.7 | 869.1 | 1546.0 | 2452.7 | 3488.9 | 4015.4 | 4153.3 |
| 65° | 263.2 | 263.2 | 284.1 | 313.4 | 317.6 | 334.3 | 401.1 | 572.4 | 831.5 | 944.3 | 956.8 |
| 67.5° | 200.6 | 200.6 | 217.3 | 234.0 | 242.3 | 238.2 | 229.8 | 238.2 | 288.3 | 275.8 | 267.4 |
| 70° | 125.4 | 129.5 | 137.9 | 154.6 | 163.0 | 167.1 | 171.3 | 179.7 | 204.7 | 213.1 | 204.7 |
| 72.5° | 75.2 | 75.2 | 79.4 | 91.9 | 104.5 | 112.8 | 125.4 | 133.7 | 146.2 | 167.1 | 163.0 |
| 75° | 33.4 | 33.4 | 41.8 | 54.3 | 66.9 | 79.4 | 91.9 | 104.5 | 112.8 | 125.4 | 129.5 |
| 77.5° | 8.4 | 12.5 | 20.9 | 37.6 | 50.1 | 66.9 | 83.6 | 96.1 | 104.5 | 104.5 | 100.3 |
| 80° | 4.2 | 4.2 | 16.7 | 29.2 | 54.3 | 71.0 | 91.9 | 100.3 | 112.8 | 104.5 | 91.9 |
| 82.5° | 4.2 | 4.2 | 16.7 | 29.2 | 50.1 | 71.0 | 96.1 | 108.6 | 117.0 | 104.5 | 87.7 |
| 85° | 0.0 | 4.2 | 12.5 | 25.1 | 41.8 | 50.1 | 41.8 | 29.2 | 16.7 | 16.7 | 12.5 |
| 87.5° | 0.0 | 0.0 | 4.2 | 4.2 | 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)