

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: P532511

Luminaire Tested: **GALN-SA7D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23771 lumens
Efficiency: N/A
Efficacy: 54.9 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

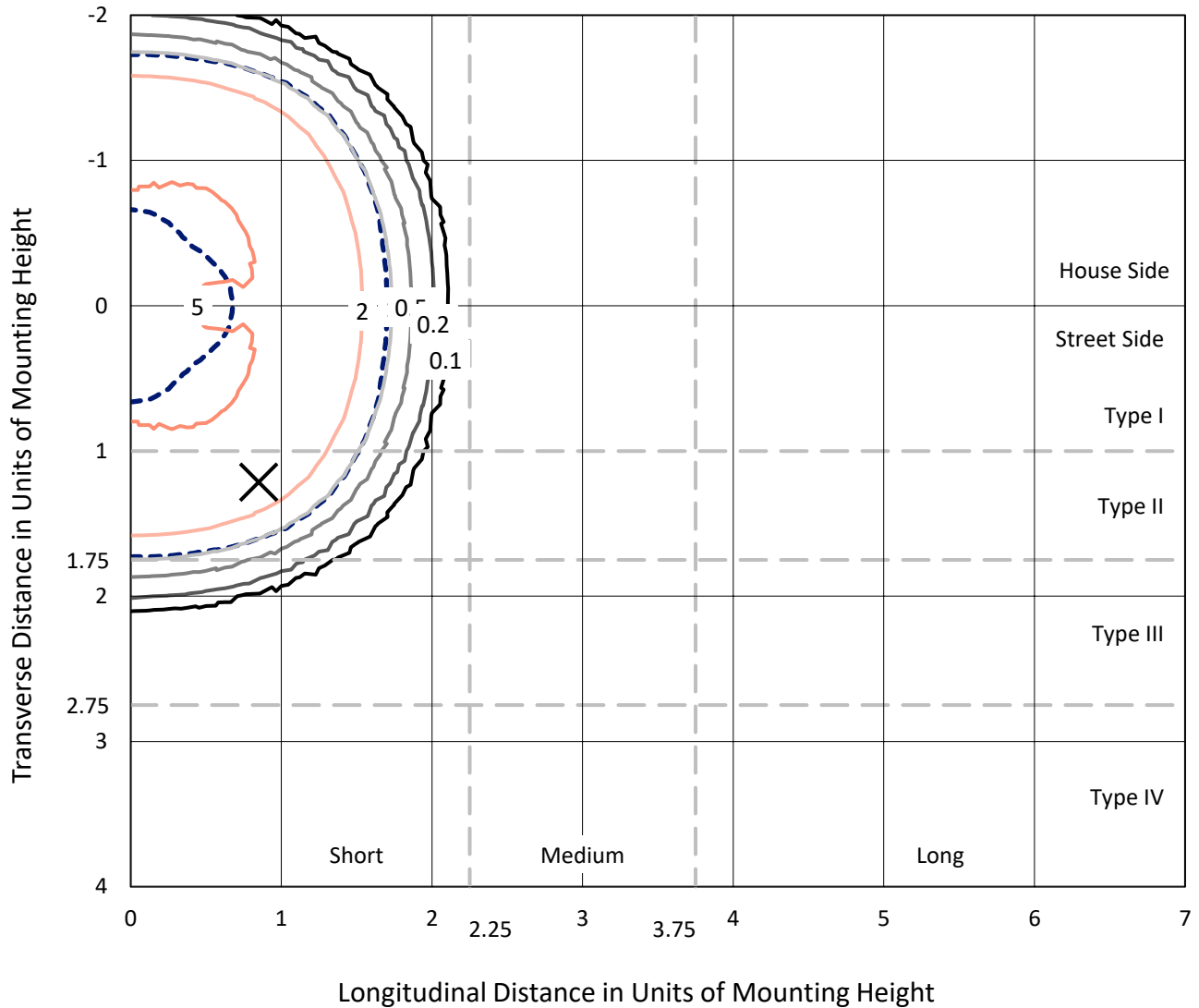
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

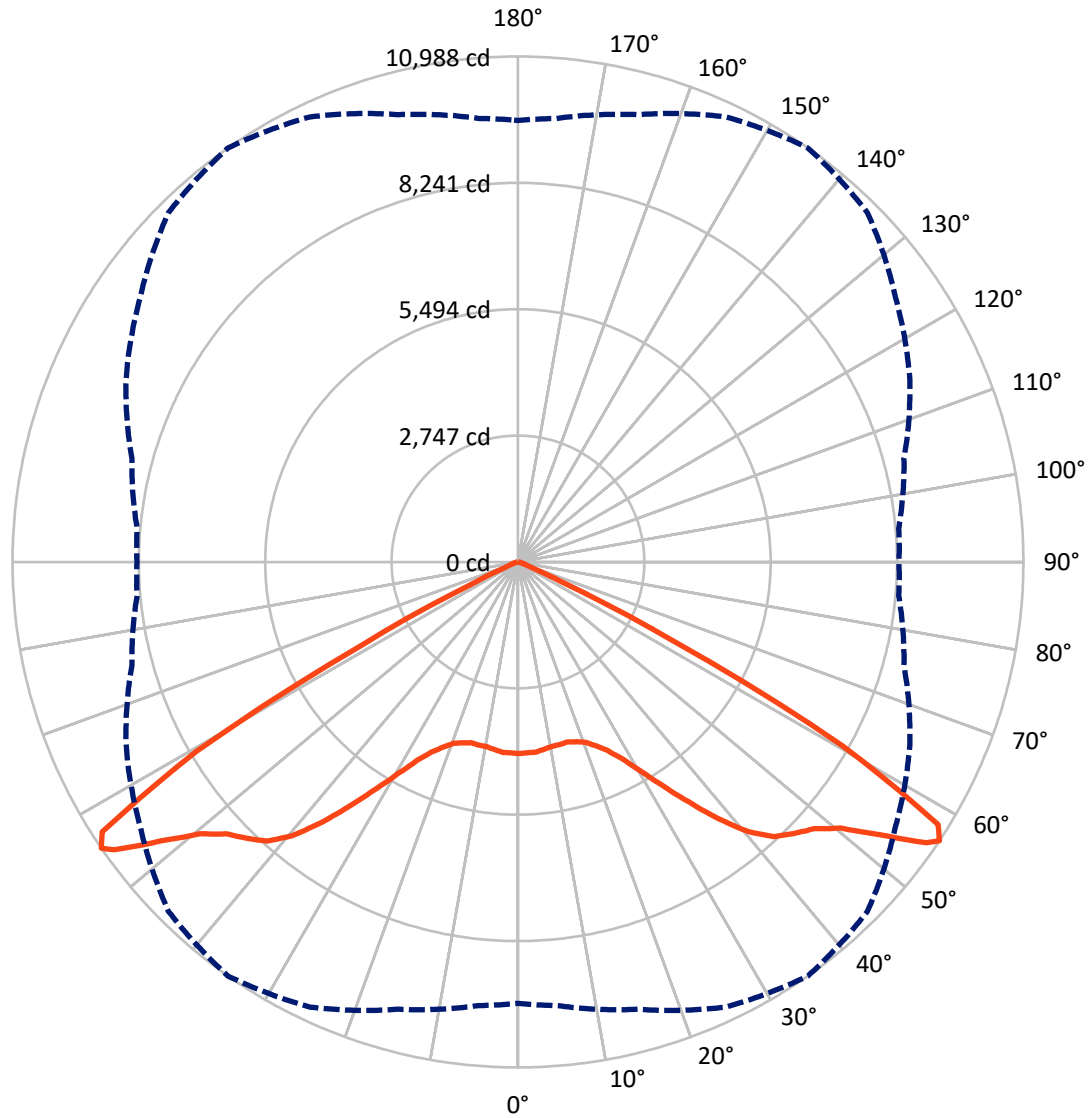
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11885.5 | 0.0 | 11885.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11885.5 | 0.0 | 11885.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23771.0 | 0.0 | 23771.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 391.5 | 1.6 |
| 10°-20° | 1142.9 | 4.8 |
| 20°-30° | 2069.6 | 8.7 |
| 30°-40° | 3837.8 | 16.1 |
| 40°-50° | 6299.5 | 26.5 |
| 50°-60° | 8115.6 | 34.1 |
| 60°-70° | 1788.6 | 7.5 |
| 70°-80° | 103.8 | 0.4 |
| 80°-90° | 21.8 | 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° | 23771.0 | 100.0 |
| 0°-180° | 23771.0 | 100.0 |

Coefficient of Utilization



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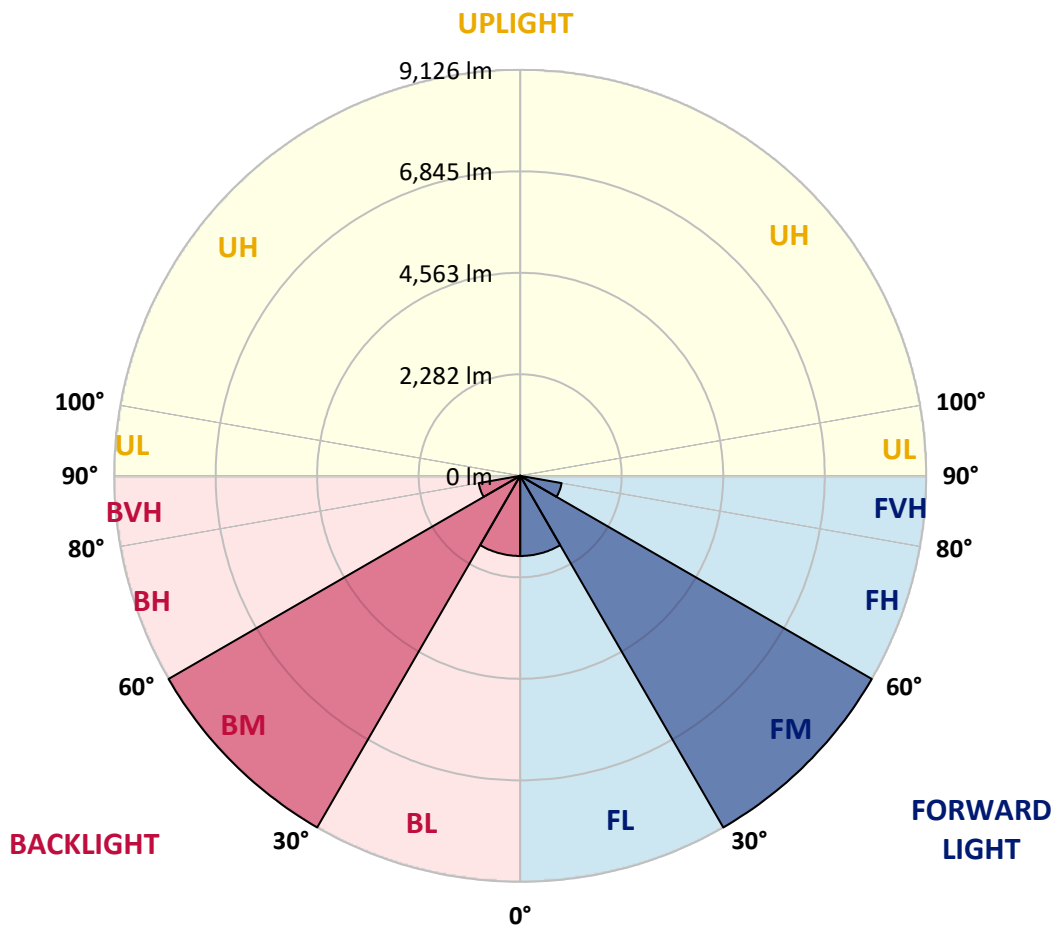
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1802.0 | 7.6 | | | |
| FM (30°-60°) | 9126.4 | 38.4 | | | |
| FH (60°-80°) | 946.2 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 10.9 | 0.0 | | | G1/100 |
| BL (0°-30°) | 1802.0 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 9126.4 | 38.4 | B5 | | |
| BH (60°-80°) | 946.2 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 10.9 | 0.0 | | | 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° | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 | 4165.2 |
| 2.5° | 4173.8 | 4173.8 | 4178.1 | 4182.4 | 4152.3 | 4139.3 | 4143.7 | 4135.0 | 4130.7 | 4143.7 | 4143.7 |
| 5° | 4160.9 | 4160.9 | 4148.0 | 4152.3 | 4152.3 | 4113.5 | 4113.5 | 4122.1 | 4122.1 | 4096.3 | 4087.7 |
| 7.5° | 4126.4 | 4117.8 | 4100.6 | 4122.1 | 4109.2 | 4109.2 | 4079.0 | 4057.5 | 4048.9 | 4066.1 | 4048.9 |
| 10° | 4053.2 | 4057.5 | 4074.7 | 4083.4 | 4074.7 | 4100.6 | 4048.9 | 4018.7 | 3988.6 | 3975.7 | 3975.7 |
| 12.5° | 4018.7 | 4044.6 | 4018.7 | 4040.3 | 4070.4 | 4048.9 | 4018.7 | 3997.2 | 3954.1 | 3936.9 | 3936.9 |
| 15° | 4014.4 | 4031.7 | 4040.3 | 4070.4 | 4057.5 | 4066.1 | 4005.8 | 3980.0 | 3915.4 | 3885.2 | 3872.3 |
| 17.5° | 4010.1 | 4031.7 | 4044.6 | 4100.6 | 4109.2 | 4113.5 | 4066.1 | 3988.6 | 3932.6 | 3902.4 | 3872.3 |
| 20° | 4057.5 | 4066.1 | 4092.0 | 4148.0 | 4182.4 | 4242.7 | 4156.6 | 4074.7 | 3954.1 | 3919.7 | 3906.8 |
| 22.5° | 4117.8 | 4160.9 | 4186.7 | 4247.0 | 4337.5 | 4389.2 | 4277.2 | 4173.8 | 4048.9 | 4005.8 | 3954.1 |
| 25° | 4311.6 | 4303.0 | 4346.1 | 4471.0 | 4544.2 | 4583.0 | 4492.5 | 4341.8 | 4178.1 | 4126.4 | 4135.0 |
| 27.5° | 4552.9 | 4561.5 | 4600.2 | 4738.1 | 4845.7 | 4906.1 | 4798.4 | 4600.2 | 4440.9 | 4354.7 | 4346.1 |
| 30° | 4867.3 | 4858.7 | 4901.7 | 5087.0 | 5280.8 | 5371.2 | 5181.7 | 4949.1 | 4794.1 | 4682.1 | 4707.9 |
| 32.5° | 5199.0 | 5203.3 | 5323.9 | 5491.8 | 5806.3 | 5982.9 | 5677.1 | 5392.8 | 5160.2 | 5082.7 | 5043.9 |
| 35° | 5690.0 | 5711.5 | 5806.3 | 6064.7 | 6413.6 | 6641.9 | 6305.9 | 5965.7 | 5698.6 | 5556.5 | 5573.7 |
| 37.5° | 6297.3 | 6275.8 | 6435.2 | 6715.1 | 7081.3 | 7249.2 | 6965.0 | 6577.3 | 6305.9 | 6211.2 | 6271.5 |
| 40° | 6943.4 | 6965.0 | 7046.8 | 7300.9 | 7710.1 | 7822.1 | 7400.0 | 7188.9 | 6952.0 | 6904.7 | 6977.9 |
| 42.5° | 7589.5 | 7576.6 | 7636.9 | 7865.2 | 8162.4 | 8084.9 | 7835.0 | 7710.1 | 7542.1 | 7447.4 | 7546.4 |
| 45° | 8063.3 | 8041.8 | 8153.8 | 8308.8 | 8416.5 | 8270.1 | 8158.1 | 8115.0 | 8028.9 | 7925.5 | 8015.9 |
| 47.5° | 8524.2 | 8507.0 | 8614.7 | 8657.7 | 8666.4 | 8472.5 | 8494.1 | 8571.6 | 8356.2 | 8140.9 | 8244.2 |
| 50° | 8916.2 | 8886.0 | 9019.6 | 9114.3 | 9092.8 | 8782.7 | 8860.2 | 8782.7 | 8446.7 | 8192.5 | 8153.8 |
| 52.5° | 9570.9 | 9583.8 | 9726.0 | 9898.2 | 9846.6 | 9588.1 | 9476.1 | 9122.9 | 8692.2 | 8463.9 | 8330.4 |
| 55° | 9984.4 | 9919.8 | 10165.3 | 10712.3 | 10772.6 | 10505.6 | 10010.2 | 9489.1 | 8843.0 | 8563.0 | 8528.5 |
| 56° | 9596.7 | 9678.6 | 10066.2 | 10677.9 | 10988.0 | 10742.5 | 10023.2 | 9398.6 | 8687.9 | 8308.8 | 8283.0 |
| 57.5° | 8610.4 | 8567.3 | 9092.8 | 9928.4 | 10772.6 | 10669.3 | 9670.0 | 8752.5 | 7925.5 | 7499.1 | 7447.4 |
| 60° | 5358.3 | 5483.2 | 5944.1 | 6977.9 | 8106.4 | 8158.1 | 7167.4 | 6379.2 | 5414.3 | 5035.3 | 5125.7 |
| 62.5° | 2097.7 | 1990.0 | 2278.6 | 3049.6 | 3824.9 | 3997.2 | 3622.5 | 3010.8 | 2472.4 | 2097.7 | 2071.8 |
| 65° | 486.7 | 473.8 | 534.1 | 736.6 | 1029.5 | 1193.1 | 1132.8 | 814.1 | 598.7 | 568.6 | 525.5 |
| 67.5° | 275.7 | 275.7 | 262.7 | 262.7 | 288.6 | 305.8 | 292.9 | 288.6 | 301.5 | 314.4 | 310.1 |
| 70° | 193.8 | 189.5 | 180.9 | 185.2 | 176.6 | 176.6 | 189.5 | 211.1 | 228.3 | 228.3 | 232.6 |
| 72.5° | 116.3 | 116.3 | 116.3 | 129.2 | 129.2 | 129.2 | 142.1 | 159.4 | 163.7 | 159.4 | 155.1 |
| 75° | 51.7 | 51.7 | 60.3 | 73.2 | 81.8 | 86.1 | 99.1 | 107.7 | 116.3 | 107.7 | 99.1 |
| 77.5° | 12.9 | 12.9 | 21.5 | 30.2 | 38.8 | 47.4 | 64.6 | 77.5 | 81.8 | 77.5 | 64.6 |
| 80° | 4.3 | 4.3 | 8.6 | 21.5 | 38.8 | 47.4 | 64.6 | 68.9 | 73.2 | 64.6 | 51.7 |
| 82.5° | 4.3 | 4.3 | 8.6 | 21.5 | 30.2 | 38.8 | 51.7 | 60.3 | 64.6 | 56.0 | 51.7 |
| 85° | 0.0 | 4.3 | 8.6 | 17.2 | 25.8 | 34.5 | 34.5 | 25.8 | 21.5 | 12.9 | 17.2 |
| 87.5° | 0.0 | 0.0 | 4.3 | 4.3 | 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)