

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: P954721

Luminaire Tested: **GALN-SB7D-927-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954721
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-SB7D-927-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46132 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

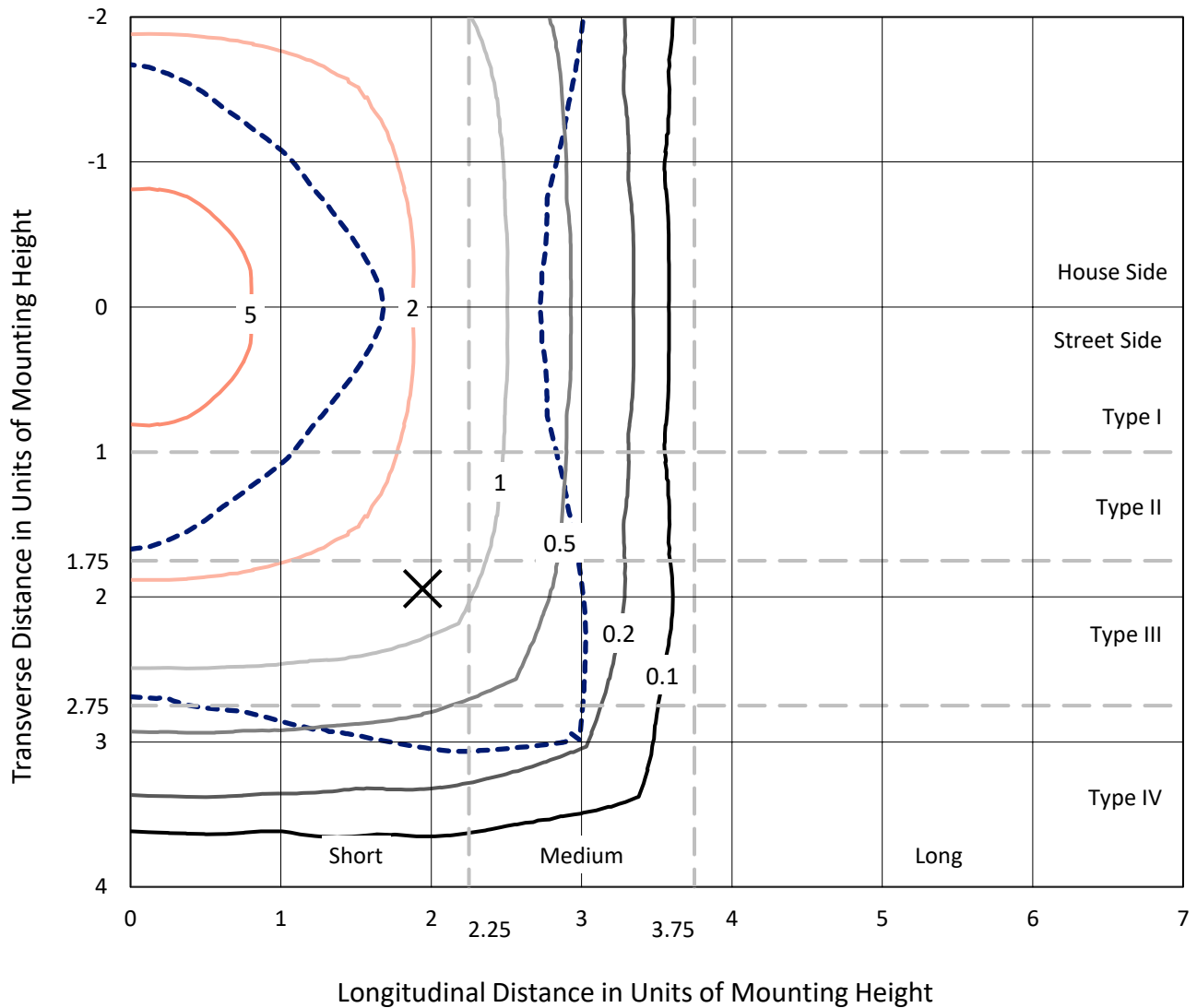
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

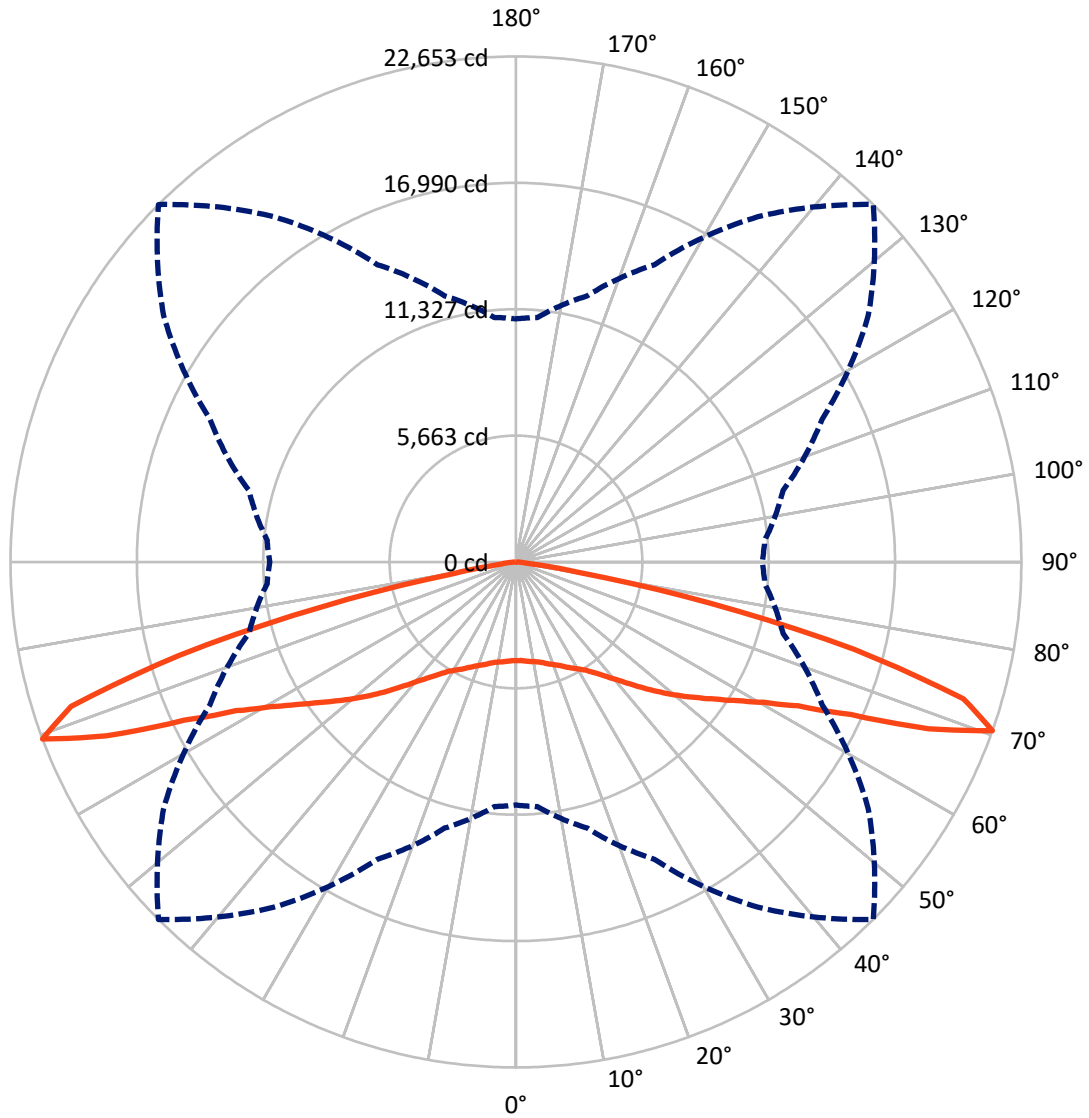
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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 | 23066.0 | 0.0 | 23066.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23066.0 | 0.0 | 23066.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 46132.0 | 0.0 | 46132.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 429.3 | 0.9 |
| 10°-20° | 1331.2 | 2.9 |
| 20°-30° | 2379.0 | 5.2 |
| 30°-40° | 3856.4 | 8.4 |
| 40°-50° | 6281.4 | 13.6 |
| 50°-60° | 9577.1 | 20.8 |
| 60°-70° | 14247.6 | 30.9 |
| 70°-80° | 7765.4 | 16.8 |
| 80°-90° | 264.4 | 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° | 46132.0 | 100.0 |
| 0°-180° | 46132.0 | 100.0 |



REPORT NUMBER: P954721

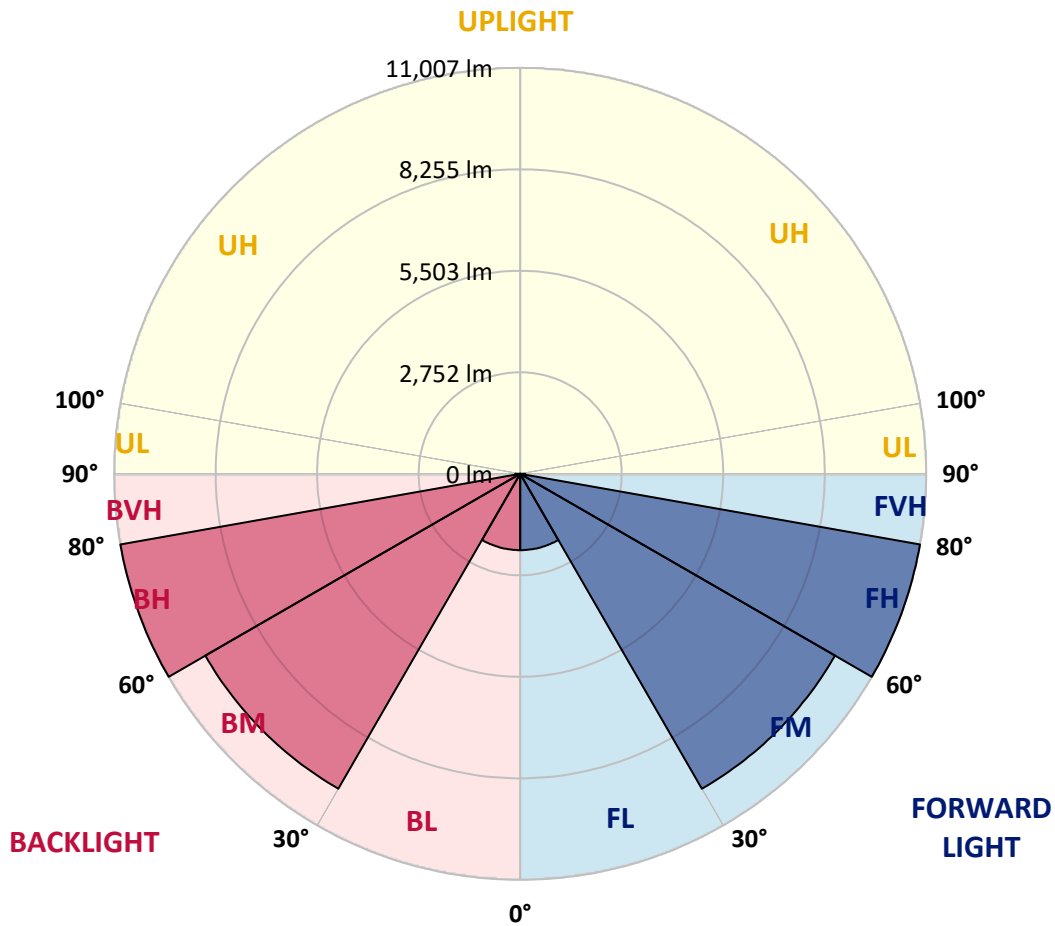
CATALOG NUMBER: GALN-SB7D-927-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2069.8 | 4.5 | | | |
| FM (30°-60°) | 9857.5 | 21.4 | | | |
| FH (60°-80°) | 11006.5 | 23.9 | | | G4/12000 |
| FVH (80°-90°) | 132.2 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2069.8 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 9857.5 | 21.4 | B5 | | |
| BH (60°-80°) | 11006.5 | 23.9 | B5 | | G4/12000 |
| BVH (80°-90°) | 132.2 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4419.0 | 4419.0 | 4419.0 | 4419.0 | 4419.0 | 4419.0 | 4419.0 | 4419.0 | 4419.0 | 4419.0 |
| 2.5° | 4439.8 | 4444.4 | 4435.2 | 4430.5 | 4425.9 | 4419.0 | 4421.3 | 4432.9 | 4442.1 | 4439.8 |
| 5° | 4476.9 | 4481.5 | 4474.6 | 4472.2 | 4463.0 | 4460.7 | 4460.7 | 4472.2 | 4479.2 | 4474.6 |
| 7.5° | 4518.6 | 4525.5 | 4513.9 | 4511.6 | 4507.0 | 4502.3 | 4500.0 | 4511.6 | 4518.6 | 4518.6 |
| 10° | 4557.9 | 4564.9 | 4555.6 | 4548.7 | 4544.0 | 4544.0 | 4539.4 | 4548.7 | 4560.2 | 4557.9 |
| 12.5° | 4599.6 | 4604.2 | 4595.0 | 4590.4 | 4590.4 | 4597.3 | 4590.4 | 4595.0 | 4604.2 | 4599.6 |
| 15° | 4650.6 | 4652.9 | 4650.6 | 4657.5 | 4669.1 | 4692.3 | 4671.4 | 4666.8 | 4671.4 | 4659.8 |
| 17.5° | 4720.1 | 4724.7 | 4733.9 | 4750.2 | 4766.4 | 4808.1 | 4771.0 | 4759.4 | 4759.4 | 4736.3 |
| 20° | 4805.7 | 4812.7 | 4826.6 | 4854.4 | 4875.2 | 4914.6 | 4877.5 | 4861.3 | 4854.4 | 4824.3 |
| 22.5° | 4896.1 | 4907.6 | 4928.5 | 4965.5 | 5002.6 | 5039.7 | 5002.6 | 4974.8 | 4954.0 | 4914.6 |
| 25° | 5000.3 | 5014.2 | 5046.6 | 5106.8 | 5157.8 | 5211.0 | 5167.0 | 5111.5 | 5069.8 | 5014.2 |
| 27.5° | 5148.5 | 5164.7 | 5204.1 | 5278.2 | 5343.1 | 5389.4 | 5347.7 | 5275.9 | 5218.0 | 5150.8 |
| 30° | 5357.0 | 5373.2 | 5419.5 | 5498.2 | 5542.2 | 5572.3 | 5544.6 | 5489.0 | 5419.5 | 5343.1 |
| 32.5° | 5625.6 | 5646.5 | 5697.4 | 5771.5 | 5780.8 | 5785.4 | 5776.2 | 5748.4 | 5697.4 | 5604.8 |
| 35° | 5966.1 | 5989.2 | 6047.1 | 6107.3 | 6098.1 | 6107.3 | 6093.5 | 6084.2 | 6047.1 | 5940.6 |
| 37.5° | 6383.0 | 6410.7 | 6471.0 | 6517.3 | 6494.1 | 6482.5 | 6484.9 | 6487.2 | 6466.3 | 6348.2 |
| 40° | 6867.0 | 6904.1 | 6948.1 | 6996.7 | 6957.3 | 6922.6 | 6945.7 | 6964.3 | 6945.7 | 6825.3 |
| 42.5° | 7364.9 | 7418.2 | 7464.5 | 7534.0 | 7501.6 | 7457.6 | 7490.0 | 7510.9 | 7471.5 | 7341.8 |
| 45° | 7918.5 | 7969.4 | 8029.6 | 8133.9 | 8110.7 | 8064.4 | 8110.7 | 8115.3 | 8048.2 | 7895.3 |
| 47.5° | 8490.5 | 8543.8 | 8634.1 | 8773.1 | 8763.8 | 8712.9 | 8773.1 | 8740.7 | 8655.0 | 8472.0 |
| 50° | 9032.5 | 9106.6 | 9245.6 | 9440.1 | 9458.6 | 9396.1 | 9477.2 | 9414.6 | 9271.0 | 9041.7 |
| 52.5° | 9542.0 | 9620.8 | 9840.8 | 10104.8 | 10172.0 | 10090.9 | 10199.8 | 10090.9 | 9875.5 | 9581.4 |
| 55° | 10077.0 | 10165.0 | 10426.7 | 10771.8 | 10906.1 | 10845.9 | 10947.8 | 10783.4 | 10477.7 | 10121.0 |
| 57.5° | 10707.0 | 10760.2 | 11072.9 | 11482.8 | 11709.8 | 11723.7 | 11770.0 | 11492.1 | 11121.5 | 10716.2 |
| 60° | 11390.2 | 11464.3 | 11804.8 | 12295.8 | 12654.7 | 12770.5 | 12721.9 | 12309.7 | 11878.9 | 11413.4 |
| 62.5° | 12265.6 | 12346.7 | 12754.3 | 13342.6 | 13910.0 | 14197.2 | 14007.3 | 13409.8 | 12877.1 | 12318.9 |
| 65° | 12990.6 | 13080.9 | 13817.4 | 14866.5 | 15899.5 | 16476.2 | 15999.1 | 14899.0 | 13940.1 | 13152.7 |
| 67.5° | 12464.8 | 12576.0 | 13731.7 | 15658.6 | 18227.1 | 19947.9 | 18315.1 | 15894.9 | 14016.6 | 12948.9 |
| 70° | 10894.6 | 10998.8 | 12346.7 | 14702.1 | 18882.5 | 22653.0 | 19276.2 | 15135.2 | 12390.7 | 11195.6 |
| 72.5° | 7232.9 | 7568.8 | 8932.9 | 11758.4 | 16860.6 | 20962.3 | 17027.4 | 11519.9 | 8286.7 | 7216.7 |
| 75° | 2399.4 | 2668.1 | 3599.1 | 6095.8 | 11292.9 | 15677.1 | 10751.0 | 5394.0 | 2851.0 | 2052.0 |
| 77.5° | 604.5 | 697.1 | 961.1 | 1744.0 | 4504.7 | 8925.9 | 4055.4 | 1424.4 | 775.9 | 541.9 |
| 80° | 294.1 | 324.2 | 463.2 | 581.3 | 1127.9 | 2837.1 | 1058.4 | 546.6 | 365.9 | 282.6 |
| 82.5° | 162.1 | 164.4 | 261.7 | 328.9 | 419.2 | 734.2 | 435.4 | 319.6 | 210.8 | 171.4 |
| 85° | 99.6 | 97.3 | 139.0 | 176.0 | 176.0 | 261.7 | 208.4 | 176.0 | 120.4 | 106.5 |
| 87.5° | 39.4 | 39.4 | 51.0 | 55.6 | 48.6 | 67.2 | 53.3 | 57.9 | 46.3 | 44.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4419.0 |
| 4442.1 |
| 4476.9 |
| 4518.6 |
| 4557.9 |
| 4597.3 |
| 4659.8 |
| 4736.3 |
| 4824.3 |
| 4912.3 |
| 5011.9 |
| 5148.5 |
| 5343.1 |
| 5607.1 |
| 5940.6 |
| 6348.2 |
| 6825.3 |
| 7351.1 |
| 7911.5 |
| 8460.4 |
| 9037.1 |
| 9553.6 |
| 10072.4 |
| 10660.6 |
| 11339.2 |
| 12221.6 |
| 13023.0 |
| 12789.1 |
| 11035.8 |
| 6982.8 |
| 1940.8 |
| 484.0 |
| 259.4 |
| 171.4 |
| 111.2 |
| 46.3 |
| 0.0 |

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