

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: P955813

Luminaire Tested: **GALN-SB8C-930-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955813
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-SB8C-930-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44118 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

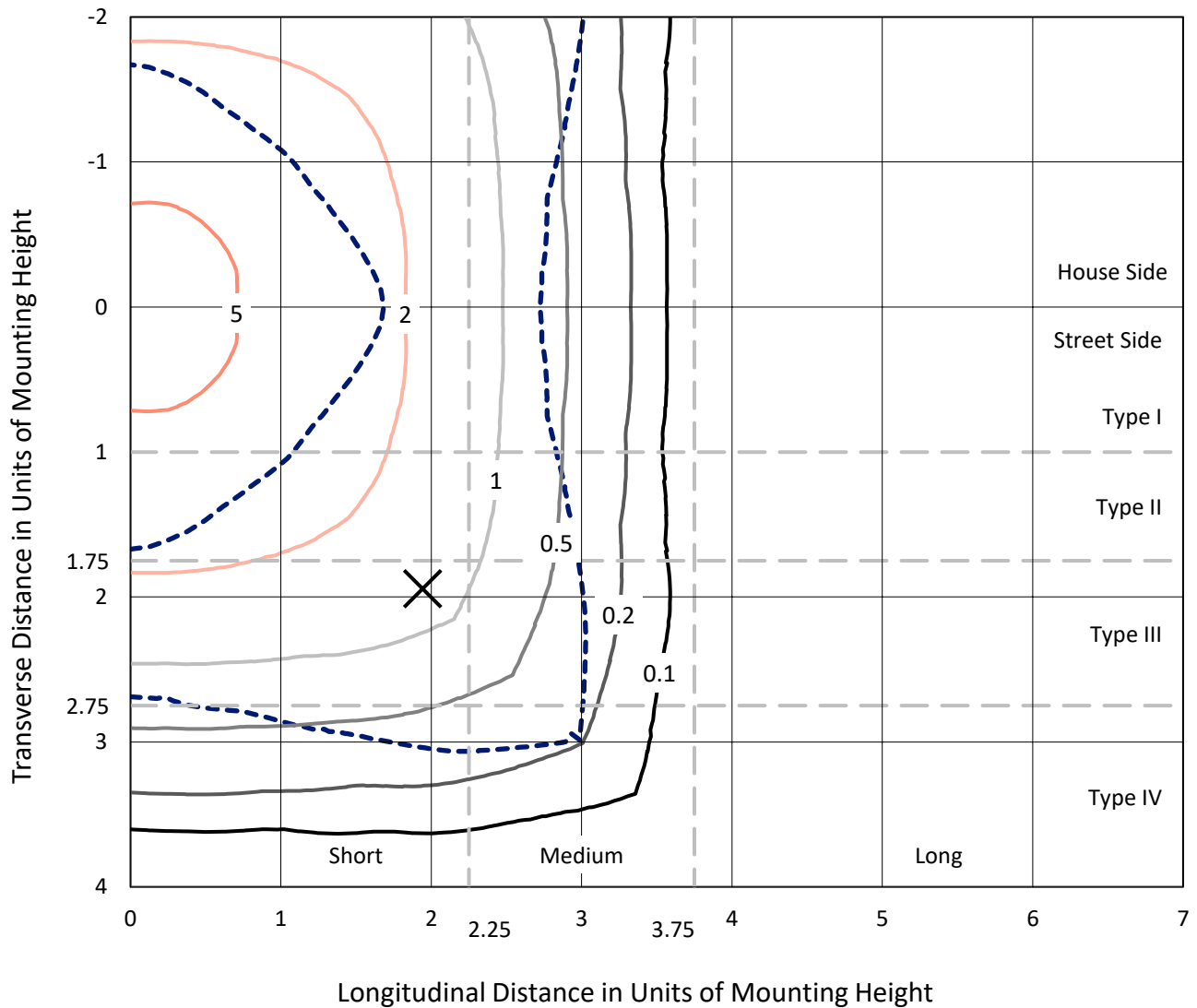
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

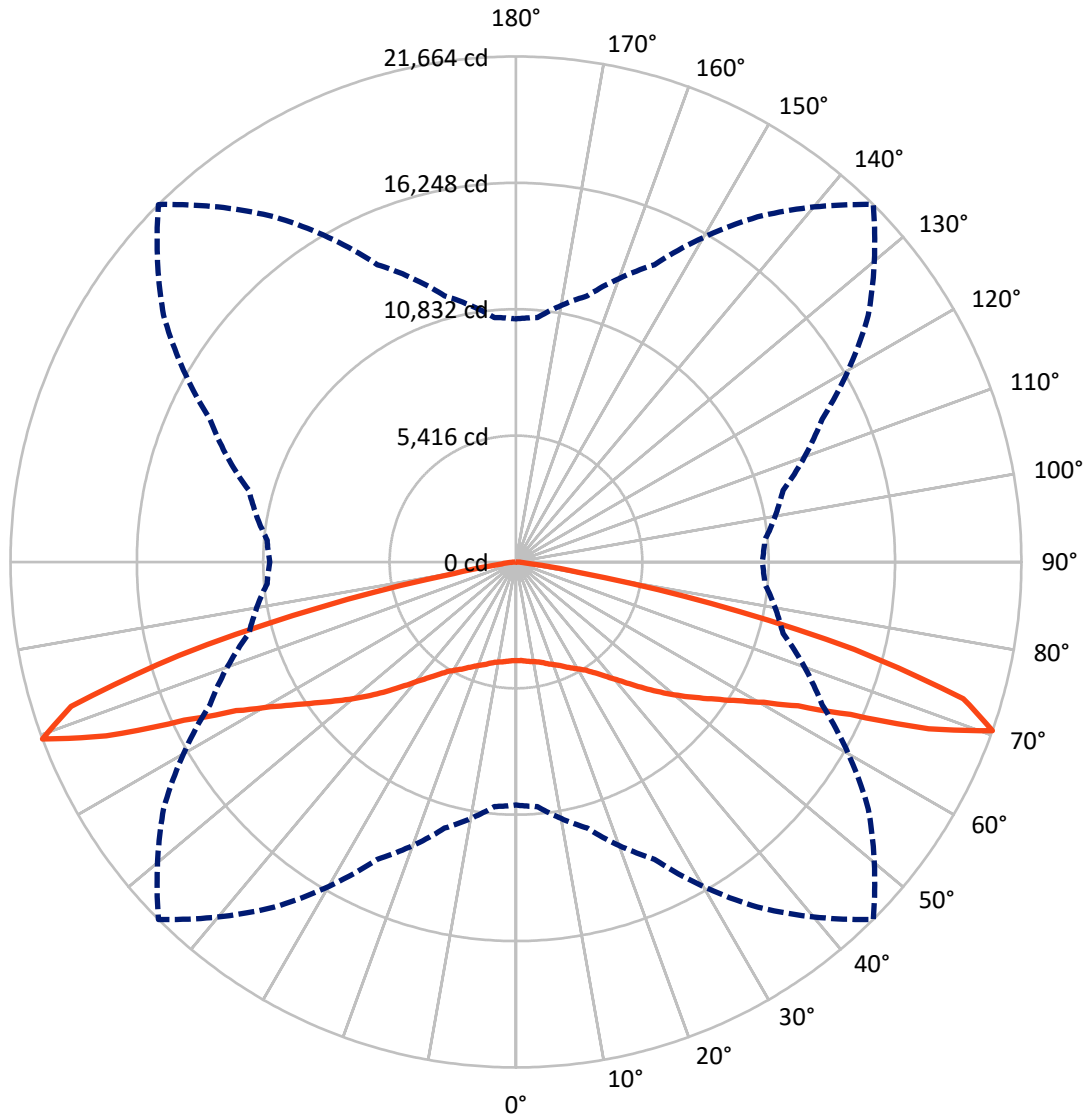
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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 | 22059.0 | 0.0 | 22059.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22059.0 | 0.0 | 22059.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44118.0 | 0.0 | 44118.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 410.6 | 0.9 |
| 10°-20° | 1273.1 | 2.9 |
| 20°-30° | 2275.2 | 5.2 |
| 30°-40° | 3688.0 | 8.4 |
| 40°-50° | 6007.2 | 13.6 |
| 50°-60° | 9159.0 | 20.8 |
| 60°-70° | 13625.6 | 30.9 |
| 70°-80° | 7426.4 | 16.8 |
| 80°-90° | 252.9 | 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° | 44118.0 | 100.0 |
| 0°-180° | 44118.0 | 100.0 |

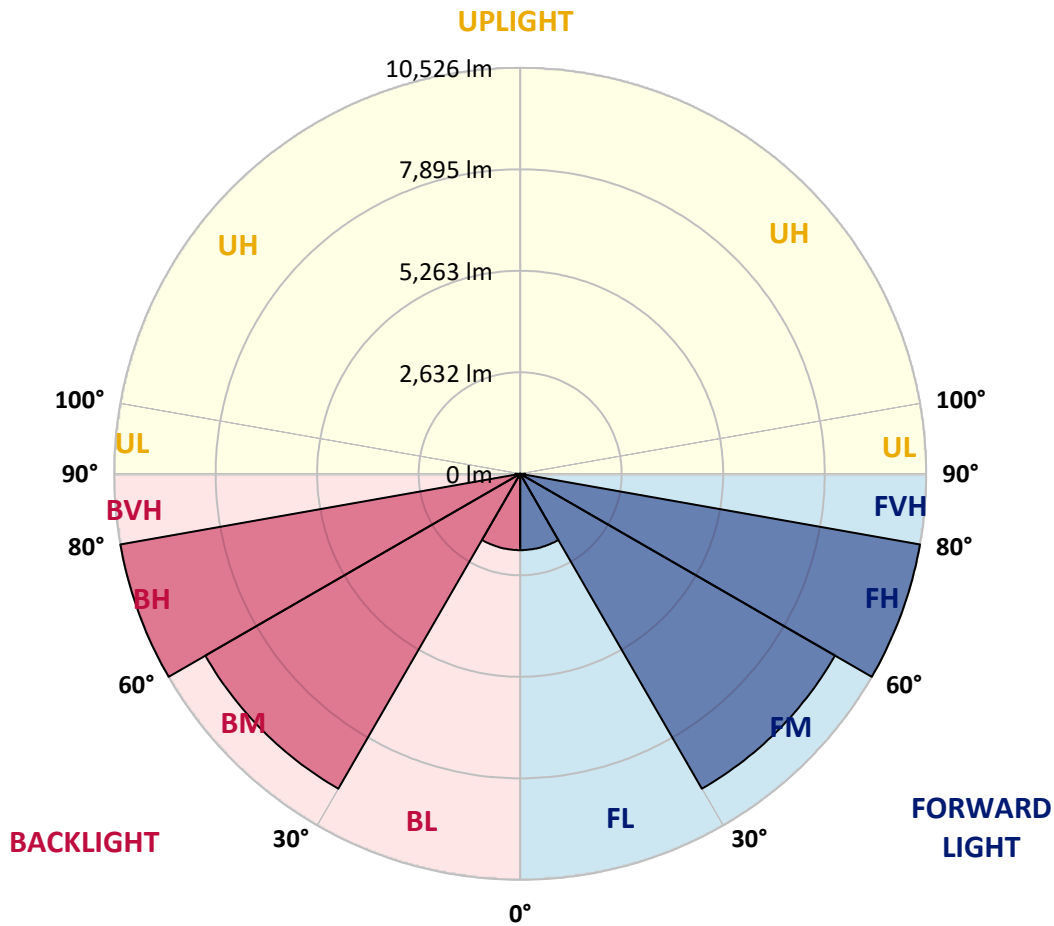


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1979.4 | 4.5 | | | |
| FM (30°-60°) | 9427.1 | 21.4 | | | |
| FH (60°-80°) | 10526.0 | 23.9 | | | G4/12000 |
| FVH (80°-90°) | 126.4 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1979.4 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 9427.1 | 21.4 | B5 | | |
| BH (60°-80°) | 10526.0 | 23.9 | B5 | | G4/12000 |
| BVH (80°-90°) | 126.4 | 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° | 4226.0 | 4226.0 | 4226.0 | 4226.0 | 4226.0 | 4226.0 | 4226.0 | 4226.0 | 4226.0 | 4226.0 |
| 2.5° | 4246.0 | 4250.4 | 4241.6 | 4237.1 | 4232.7 | 4226.0 | 4228.3 | 4239.3 | 4248.2 | 4246.0 |
| 5° | 4281.4 | 4285.9 | 4279.2 | 4277.0 | 4268.1 | 4265.9 | 4265.9 | 4277.0 | 4283.6 | 4279.2 |
| 7.5° | 4321.3 | 4327.9 | 4316.9 | 4314.6 | 4310.2 | 4305.8 | 4303.6 | 4314.6 | 4321.3 | 4321.3 |
| 10° | 4358.9 | 4365.6 | 4356.7 | 4350.1 | 4345.7 | 4345.7 | 4341.2 | 4350.1 | 4361.2 | 4358.9 |
| 12.5° | 4398.8 | 4403.2 | 4394.4 | 4390.0 | 4390.0 | 4396.6 | 4390.0 | 4394.4 | 4403.2 | 4398.8 |
| 15° | 4447.5 | 4449.8 | 4447.5 | 4454.2 | 4465.3 | 4487.4 | 4467.5 | 4463.0 | 4467.5 | 4456.4 |
| 17.5° | 4514.0 | 4518.4 | 4527.3 | 4542.8 | 4558.3 | 4598.2 | 4562.7 | 4551.6 | 4551.6 | 4529.5 |
| 20° | 4595.9 | 4602.6 | 4615.9 | 4642.5 | 4662.4 | 4700.0 | 4664.6 | 4649.1 | 4642.5 | 4613.7 |
| 22.5° | 4682.3 | 4693.4 | 4713.3 | 4748.8 | 4784.2 | 4819.6 | 4784.2 | 4757.6 | 4737.7 | 4700.0 |
| 25° | 4782.0 | 4795.3 | 4826.3 | 4883.9 | 4932.6 | 4983.5 | 4941.5 | 4888.3 | 4848.4 | 4795.3 |
| 27.5° | 4923.7 | 4939.2 | 4976.9 | 5047.8 | 5109.8 | 5154.1 | 5114.2 | 5045.6 | 4990.2 | 4926.0 |
| 30° | 5123.1 | 5138.6 | 5182.9 | 5258.2 | 5300.3 | 5329.1 | 5302.5 | 5249.3 | 5182.9 | 5109.8 |
| 32.5° | 5380.0 | 5399.9 | 5448.7 | 5519.6 | 5528.4 | 5532.8 | 5524.0 | 5497.4 | 5448.7 | 5360.1 |
| 35° | 5705.6 | 5727.8 | 5783.1 | 5840.7 | 5831.9 | 5840.7 | 5827.4 | 5818.6 | 5783.1 | 5681.2 |
| 37.5° | 6104.3 | 6130.9 | 6188.5 | 6232.8 | 6210.6 | 6199.5 | 6201.7 | 6204.0 | 6184.0 | 6071.1 |
| 40° | 6567.2 | 6602.6 | 6644.7 | 6691.2 | 6653.6 | 6620.4 | 6642.5 | 6660.2 | 6642.5 | 6527.3 |
| 42.5° | 7043.4 | 7094.4 | 7138.7 | 7205.1 | 7174.1 | 7132.0 | 7163.0 | 7183.0 | 7145.3 | 7021.3 |
| 45° | 7572.8 | 7621.5 | 7679.1 | 7778.8 | 7756.6 | 7712.3 | 7756.6 | 7761.0 | 7696.8 | 7550.6 |
| 47.5° | 8119.9 | 8170.8 | 8257.2 | 8390.1 | 8381.2 | 8332.5 | 8390.1 | 8359.1 | 8277.1 | 8102.1 |
| 50° | 8638.1 | 8709.0 | 8841.9 | 9028.0 | 9045.7 | 8985.9 | 9063.4 | 9003.6 | 8866.3 | 8647.0 |
| 52.5° | 9125.4 | 9200.7 | 9411.2 | 9663.7 | 9727.9 | 9650.4 | 9754.5 | 9650.4 | 9444.4 | 9163.1 |
| 55° | 9637.1 | 9721.2 | 9971.5 | 10301.5 | 10430.0 | 10372.4 | 10469.9 | 10312.6 | 10020.3 | 9679.2 |
| 57.5° | 10239.5 | 10290.5 | 10589.5 | 10981.5 | 11198.6 | 11211.9 | 11256.2 | 10990.4 | 10636.0 | 10248.4 |
| 60° | 10892.9 | 10963.8 | 11289.4 | 11759.0 | 12102.3 | 12213.0 | 12166.5 | 11772.2 | 11360.3 | 10915.1 |
| 62.5° | 11730.2 | 11807.7 | 12197.5 | 12760.1 | 13302.7 | 13577.4 | 13395.8 | 12824.3 | 12314.9 | 11781.1 |
| 65° | 12423.4 | 12509.8 | 13214.2 | 14217.5 | 15205.4 | 15756.9 | 15300.6 | 14248.5 | 13331.5 | 12578.5 |
| 67.5° | 11920.6 | 12027.0 | 13132.2 | 14975.0 | 17431.3 | 19077.0 | 17515.5 | 15200.9 | 13404.6 | 12383.6 |
| 70° | 10418.9 | 10518.6 | 11807.7 | 14060.2 | 18058.2 | 21664.0 | 18434.7 | 14474.4 | 11849.8 | 10706.9 |
| 72.5° | 6917.2 | 7238.3 | 8542.9 | 11245.1 | 16124.5 | 20047.1 | 16284.0 | 11017.0 | 7924.9 | 6901.7 |
| 75° | 2294.6 | 2551.6 | 3442.0 | 5829.6 | 10799.9 | 14992.7 | 10281.6 | 5158.5 | 2726.6 | 1962.4 |
| 77.5° | 578.1 | 666.7 | 919.2 | 1667.8 | 4308.0 | 8536.3 | 3878.3 | 1362.2 | 742.0 | 518.3 |
| 80° | 281.3 | 310.1 | 443.0 | 555.9 | 1078.7 | 2713.3 | 1012.2 | 522.7 | 350.0 | 270.2 |
| 82.5° | 155.0 | 157.3 | 250.3 | 314.5 | 400.9 | 702.1 | 416.4 | 305.7 | 201.6 | 163.9 |
| 85° | 95.2 | 93.0 | 132.9 | 168.3 | 168.3 | 250.3 | 199.3 | 168.3 | 115.2 | 101.9 |
| 87.5° | 37.7 | 37.7 | 48.7 | 53.2 | 46.5 | 64.2 | 50.9 | 55.4 | 44.3 | 42.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4226.0 |
| 4248.2 |
| 4281.4 |
| 4321.3 |
| 4358.9 |
| 4396.6 |
| 4456.4 |
| 4529.5 |
| 4613.7 |
| 4697.8 |
| 4793.1 |
| 4923.7 |
| 5109.8 |
| 5362.3 |
| 5681.2 |
| 6071.1 |
| 6527.3 |
| 7030.1 |
| 7566.1 |
| 8091.1 |
| 8642.6 |
| 9136.5 |
| 9632.6 |
| 10195.2 |
| 10844.2 |
| 11688.1 |
| 12454.4 |
| 12230.7 |
| 10554.0 |
| 6678.0 |
| 1856.1 |
| 462.9 |
| 248.1 |
| 163.9 |
| 106.3 |
| 44.3 |
| 0.0 |

OF REPORT)