

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: P950396

Luminaire Tested: **GALN-SB4D-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40878 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

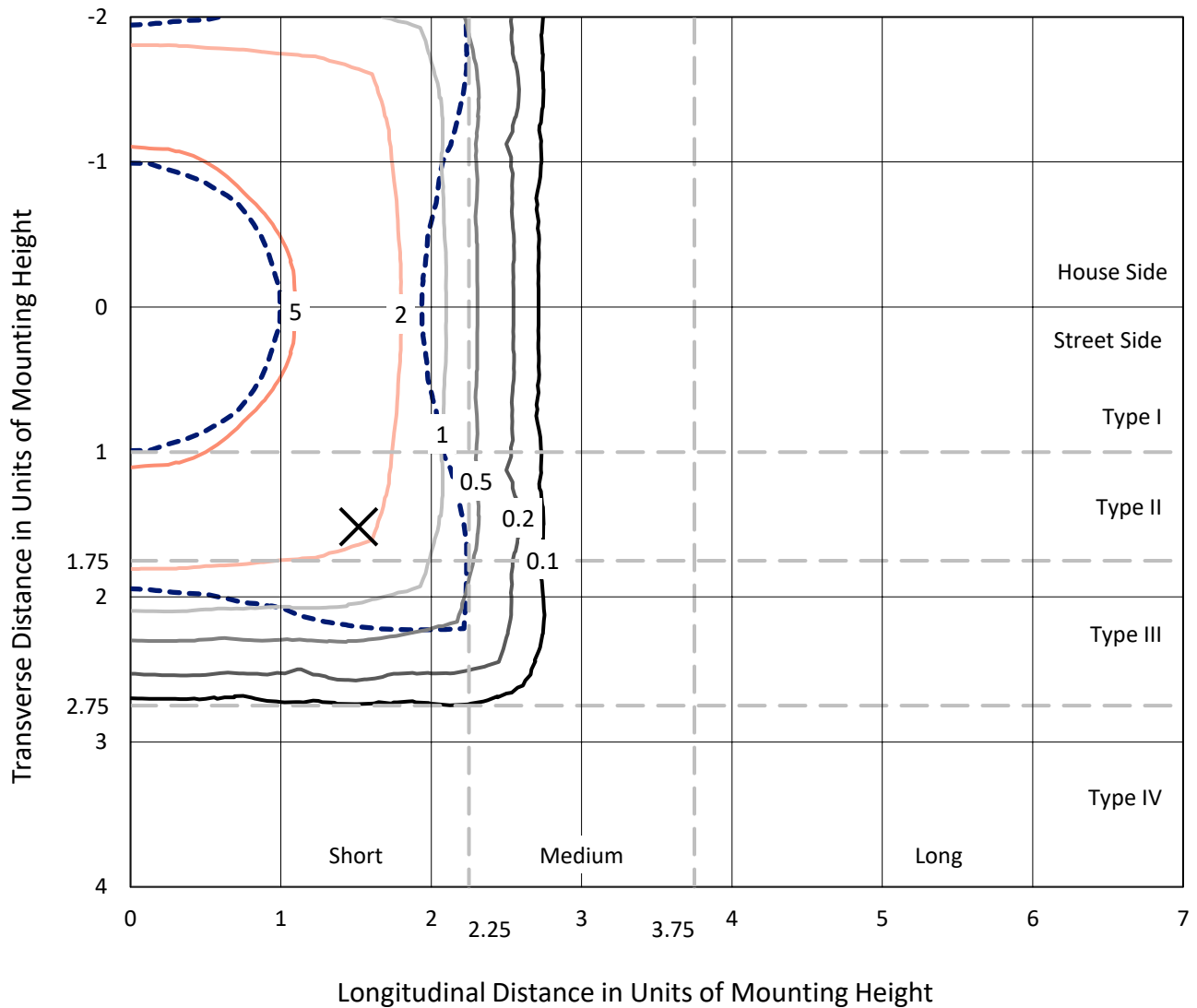
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

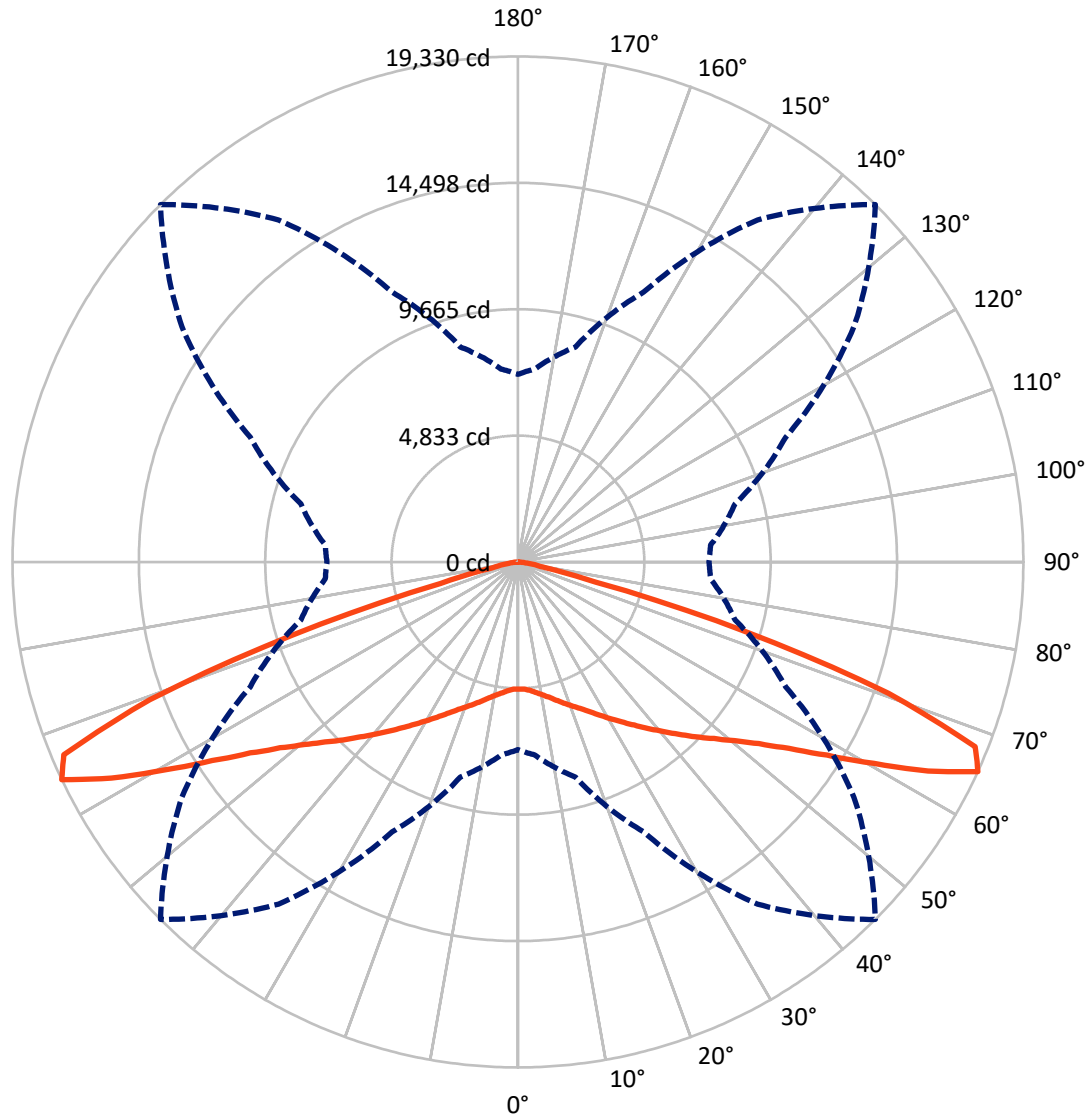
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20439.0 | 0.0 | 20439.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20439.0 | 0.0 | 20439.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40878.0 | 0.0 | 40878.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 480.1 | 1.2 |
| 10°-20° | 1566.7 | 3.8 |
| 20°-30° | 2958.0 | 7.2 |
| 30°-40° | 4843.7 | 11.8 |
| 40°-50° | 7510.2 | 18.4 |
| 50°-60° | 11094.1 | 27.1 |
| 60°-70° | 10560.5 | 25.8 |
| 70°-80° | 1704.1 | 4.2 |
| 80°-90° | 160.6 | 0.4 |
| 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° | 40878.0 | 100.0 |
| 0°-180° | 40878.0 | 100.0 |

Coefficient of Utilization



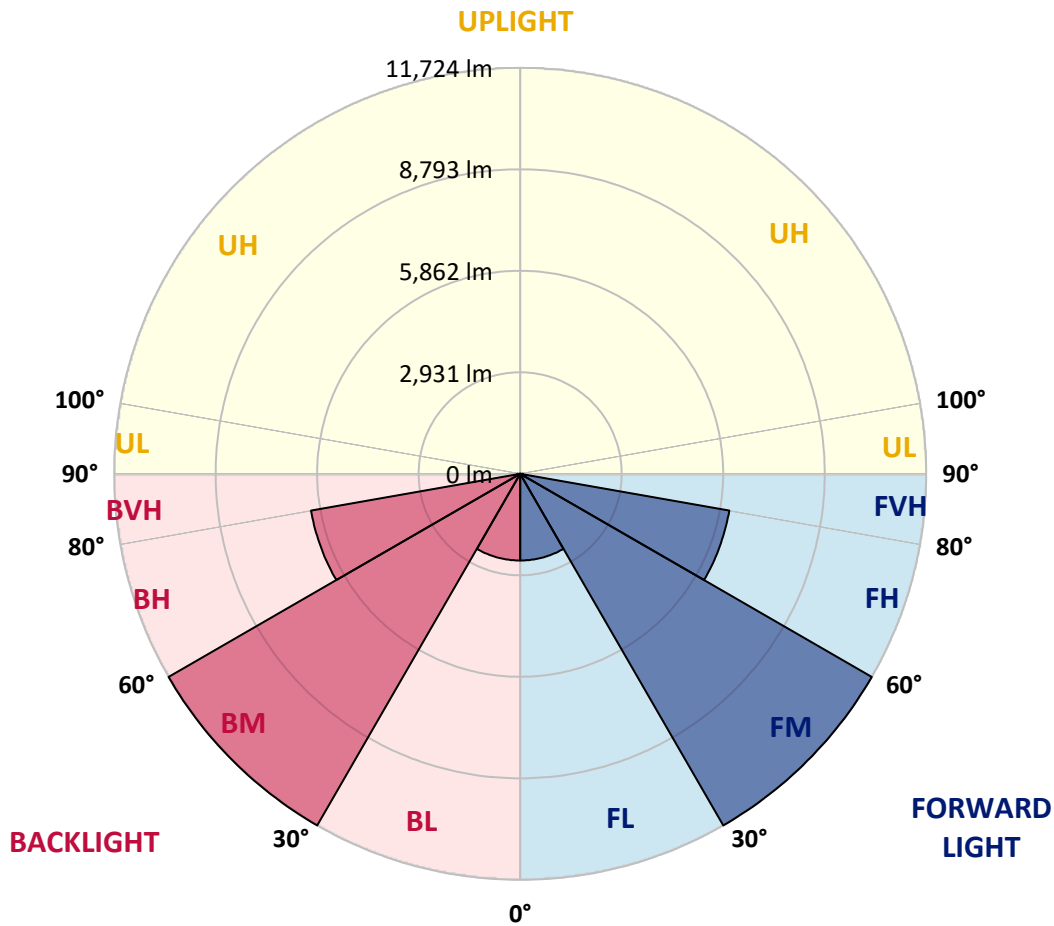
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2502.4 | 6.1 | | | |
| FM (30°-60°) | 11724.0 | 28.7 | | | |
| FH (60°-80°) | 6132.3 | 15.0 | | | G3/7500 |
| FVH (80°-90°) | 80.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2502.4 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 11724.0 | 28.7 | B5 | | |
| BH (60°-80°) | 6132.3 | 15.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 80.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4864.9 | 4864.9 | 4864.9 | 4864.9 | 4864.9 | 4864.9 | 4864.9 | 4864.9 | 4864.9 | 4864.9 |
| 2.5° | 4897.7 | 4881.3 | 4893.6 | 4883.3 | 4875.1 | 4866.9 | 4871.0 | 4885.4 | 4891.6 | 4893.6 |
| 5° | 4963.3 | 4949.0 | 4955.1 | 4955.1 | 4940.8 | 4936.7 | 4938.7 | 4949.0 | 4961.3 | 4961.3 |
| 7.5° | 5070.0 | 5055.6 | 5070.0 | 5061.8 | 5049.5 | 5045.4 | 5043.3 | 5051.5 | 5070.0 | 5070.0 |
| 10° | 5199.2 | 5182.8 | 5191.0 | 5186.9 | 5172.5 | 5166.4 | 5164.3 | 5176.6 | 5193.0 | 5191.0 |
| 12.5° | 5340.7 | 5322.3 | 5332.5 | 5320.2 | 5316.1 | 5310.0 | 5310.0 | 5307.9 | 5318.2 | 5310.0 |
| 15° | 5498.6 | 5486.3 | 5490.4 | 5482.2 | 5488.4 | 5484.3 | 5467.9 | 5459.7 | 5463.8 | 5451.5 |
| 17.5° | 5685.3 | 5656.6 | 5670.9 | 5666.8 | 5666.8 | 5675.0 | 5648.4 | 5638.1 | 5646.3 | 5634.0 |
| 20° | 5900.6 | 5871.9 | 5878.1 | 5869.9 | 5859.6 | 5867.8 | 5835.0 | 5843.2 | 5849.4 | 5841.2 |
| 22.5° | 6136.5 | 6099.6 | 6097.5 | 6101.6 | 6079.1 | 6081.1 | 6058.6 | 6079.1 | 6091.4 | 6068.8 |
| 25° | 6378.5 | 6339.5 | 6366.2 | 6355.9 | 6327.2 | 6333.4 | 6317.0 | 6337.5 | 6347.7 | 6319.0 |
| 27.5° | 6634.9 | 6608.2 | 6632.8 | 6639.0 | 6604.1 | 6628.7 | 6604.1 | 6622.6 | 6632.8 | 6589.8 |
| 30° | 6934.3 | 6907.7 | 6930.2 | 6946.6 | 6905.6 | 6944.6 | 6924.1 | 6936.4 | 6938.4 | 6887.1 |
| 32.5° | 7260.4 | 7219.4 | 7276.8 | 7285.0 | 7239.9 | 7287.1 | 7260.4 | 7276.8 | 7287.1 | 7217.3 |
| 35° | 7658.3 | 7607.0 | 7672.7 | 7662.4 | 7623.4 | 7662.4 | 7637.8 | 7662.4 | 7687.0 | 7602.9 |
| 37.5° | 8087.0 | 8033.6 | 8103.4 | 8084.9 | 8048.0 | 8074.7 | 8060.3 | 8076.7 | 8115.7 | 8025.4 |
| 40° | 8558.7 | 8493.0 | 8587.4 | 8554.6 | 8519.7 | 8515.6 | 8523.8 | 8534.1 | 8585.3 | 8484.8 |
| 42.5° | 9063.2 | 8993.5 | 9135.0 | 9083.7 | 9034.5 | 9001.7 | 9028.4 | 9048.9 | 9098.1 | 8985.3 |
| 45° | 9639.5 | 9559.6 | 9744.1 | 9682.6 | 9604.7 | 9537.0 | 9580.1 | 9610.8 | 9682.6 | 9547.2 |
| 47.5° | 10275.3 | 10185.1 | 10382.0 | 10363.5 | 10236.4 | 10088.7 | 10187.1 | 10275.3 | 10328.7 | 10164.6 |
| 50° | 10896.8 | 10827.0 | 11085.5 | 11108.0 | 10952.2 | 10745.0 | 10882.4 | 11015.7 | 11030.1 | 10814.7 |
| 52.5° | 11479.3 | 11409.5 | 11784.8 | 11926.4 | 11786.9 | 11540.8 | 11686.4 | 11821.8 | 11713.1 | 11434.1 |
| 55° | 11944.8 | 11887.4 | 12365.3 | 12730.3 | 12777.5 | 12574.5 | 12660.6 | 12656.5 | 12299.6 | 11871.0 |
| 57.5° | 12057.6 | 12049.4 | 12652.4 | 13425.6 | 13917.9 | 13942.5 | 13772.2 | 13337.4 | 12568.3 | 11992.0 |
| 60° | 11544.9 | 11596.2 | 12424.8 | 13788.6 | 15101.3 | 15646.8 | 14910.5 | 13669.7 | 12262.7 | 11462.8 |
| 62.5° | 10010.8 | 10146.1 | 11144.9 | 13345.6 | 16057.0 | 17607.5 | 15823.2 | 13165.1 | 11007.5 | 9963.6 |
| 65° | 7174.3 | 7410.1 | 8513.6 | 11389.0 | 15970.9 | 19330.4 | 15691.9 | 11296.7 | 8595.6 | 7391.7 |
| 67.5° | 3254.9 | 3494.8 | 4432.1 | 7797.8 | 13883.0 | 18862.7 | 13850.2 | 7879.8 | 4653.6 | 3507.2 |
| 70° | 1179.3 | 1220.3 | 1521.8 | 3121.6 | 8872.5 | 15029.5 | 9251.9 | 3144.1 | 1618.2 | 1300.3 |
| 72.5° | 713.7 | 719.9 | 783.5 | 1117.8 | 3082.6 | 9124.7 | 3213.9 | 1154.7 | 799.9 | 709.6 |
| 75° | 453.3 | 449.2 | 557.9 | 683.0 | 1093.2 | 3078.5 | 1146.5 | 683.0 | 555.8 | 506.6 |
| 77.5° | 326.1 | 336.4 | 399.9 | 510.7 | 689.1 | 1043.9 | 676.8 | 488.1 | 399.9 | 328.2 |
| 80° | 244.1 | 250.2 | 291.2 | 397.9 | 484.0 | 650.2 | 430.7 | 361.0 | 301.5 | 205.1 |
| 82.5° | 176.4 | 176.4 | 190.7 | 289.2 | 295.3 | 350.7 | 233.8 | 254.3 | 198.9 | 145.6 |
| 85° | 104.6 | 102.5 | 119.0 | 172.3 | 153.8 | 129.2 | 106.7 | 155.9 | 125.1 | 90.2 |
| 87.5° | 36.9 | 39.0 | 36.9 | 49.2 | 41.0 | 34.9 | 32.8 | 43.1 | 34.9 | 30.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4864.9 |
| 4893.6 |
| 4961.3 |
| 5063.8 |
| 5186.9 |
| 5314.1 |
| 5453.5 |
| 5644.3 |
| 5859.6 |
| 6091.4 |
| 6351.8 |
| 6622.6 |
| 6917.9 |
| 7264.5 |
| 7654.2 |
| 8080.8 |
| 8517.7 |
| 9044.8 |
| 9617.0 |
| 10220.0 |
| 10841.4 |
| 11442.3 |
| 11885.3 |
| 11955.1 |
| 11368.5 |
| 9902.1 |
| 7303.5 |
| 3455.9 |
| 1283.9 |
| 721.9 |
| 510.7 |
| 334.3 |
| 211.2 |
| 145.6 |
| 88.2 |
| 28.7 |
| 0.0 |

OF REPORT)