

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: P954281

Luminaire Tested: **GALN-SB7C-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954281
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-SB7C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50149 lumens
Efficiency: N/A
Efficacy: 143.1 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

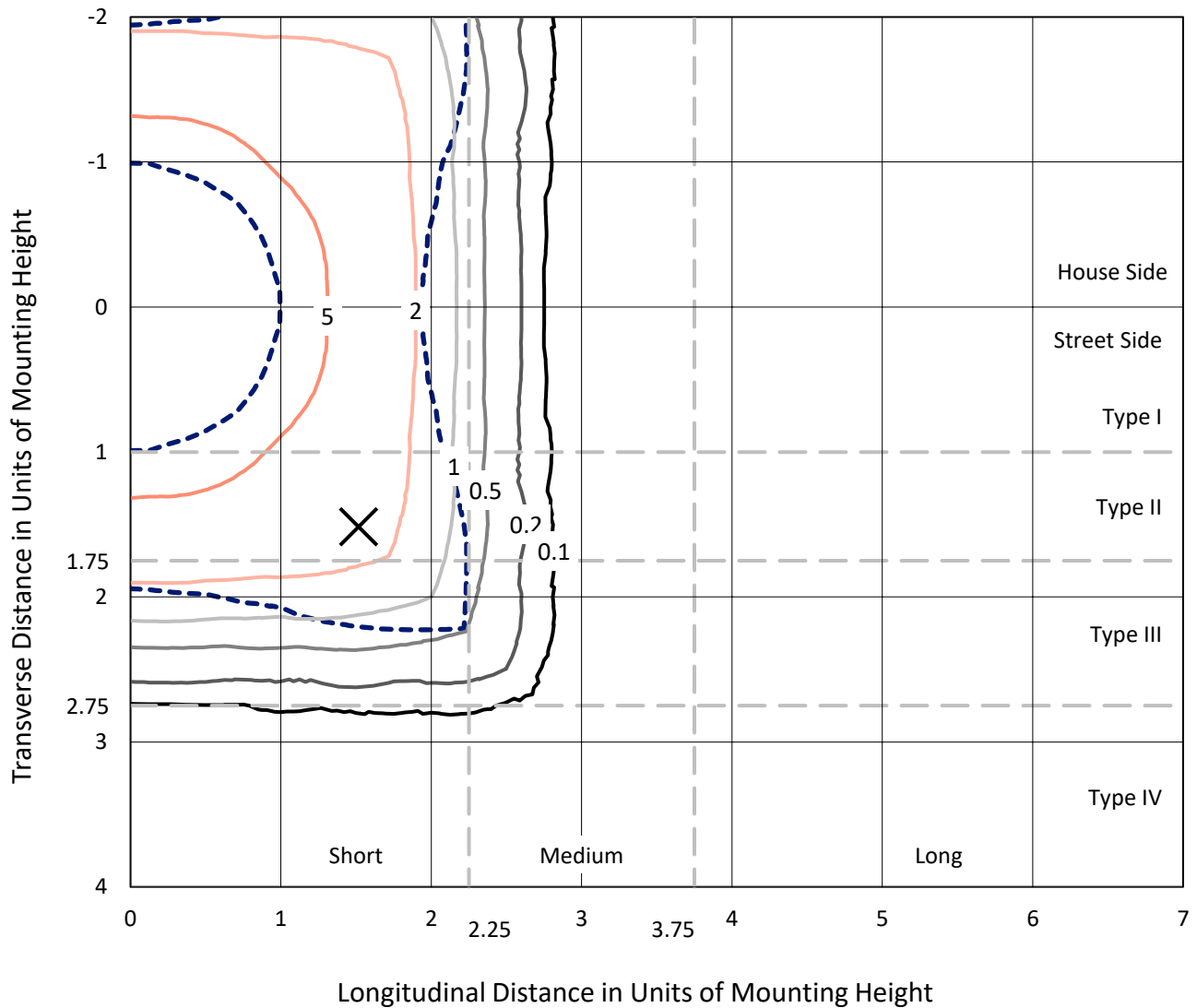
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

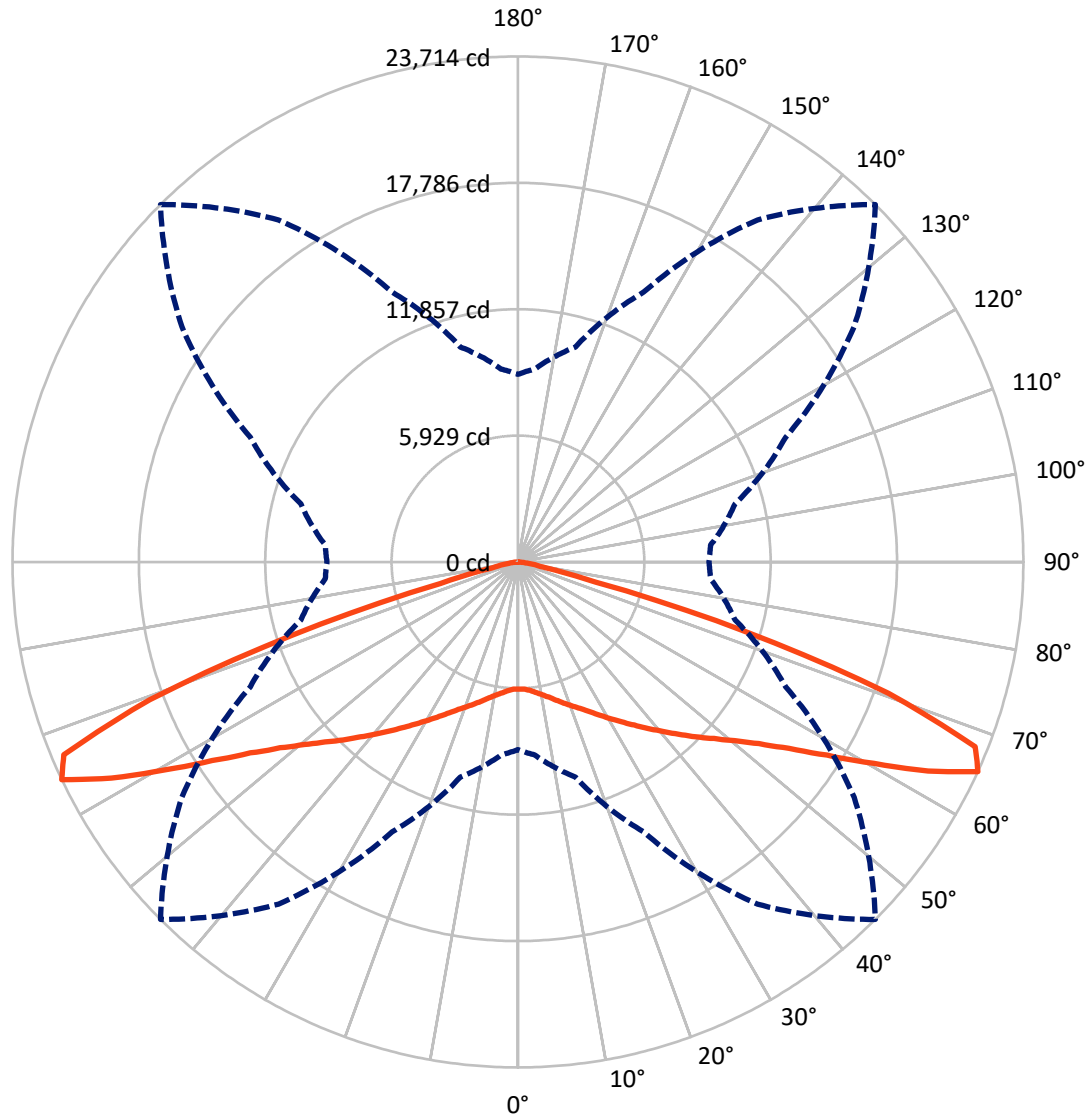
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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 | 25074.5 | 0.0 | 25074.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 25074.5 | 0.0 | 25074.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 50149.0 | 0.0 | 50149.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 589.0 | 1.2 |
| 10°-20° | 1922.0 | 3.8 |
| 20°-30° | 3628.9 | 7.2 |
| 30°-40° | 5942.2 | 11.8 |
| 40°-50° | 9213.5 | 18.4 |
| 50°-60° | 13610.2 | 27.1 |
| 60°-70° | 12955.6 | 25.8 |
| 70°-80° | 2090.6 | 4.2 |
| 80°-90° | 197.1 | 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° | 50149.0 | 100.0 |
| 0°-180° | 50149.0 | 100.0 |

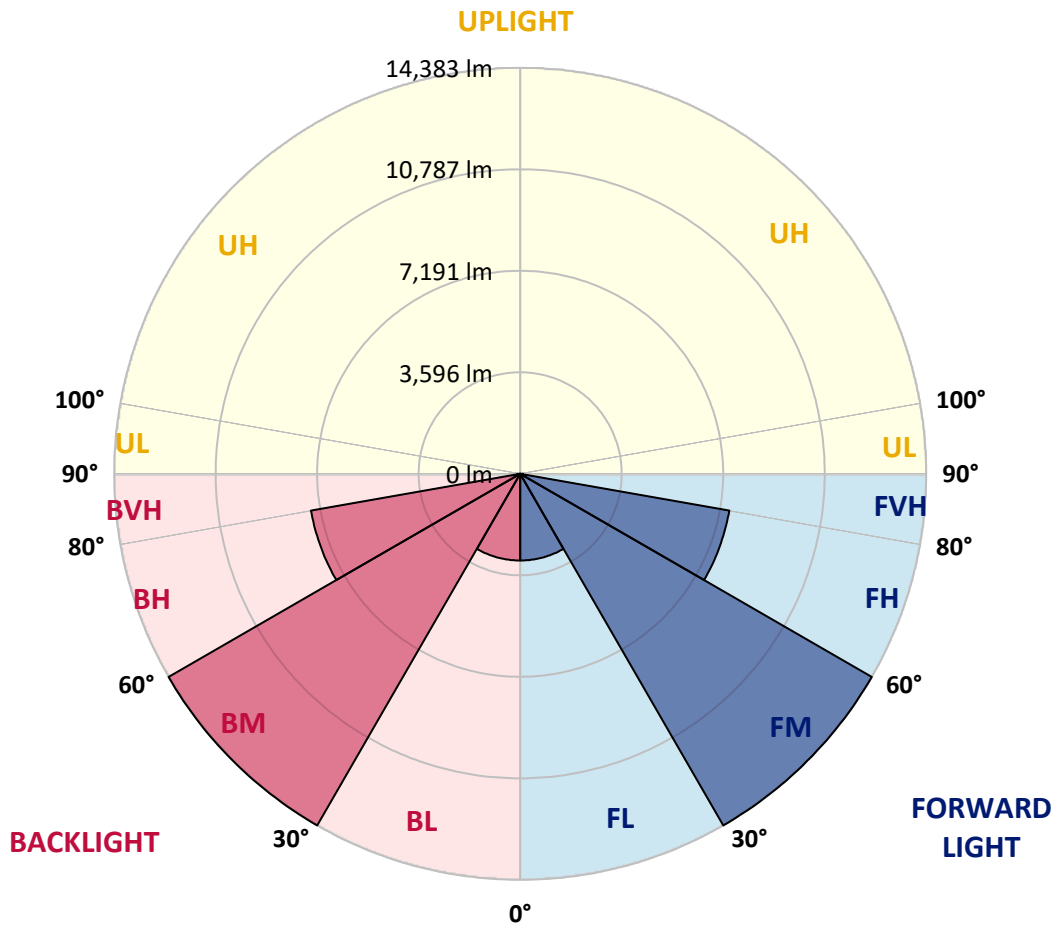


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3069.9 | 6.1 | | | |
| FM (30°-60°) | 14382.9 | 28.7 | | | |
| FH (60°-80°) | 7523.1 | 15.0 | | | G4/12000 |
| FVH (80°-90°) | 98.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3069.9 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 14382.9 | 28.7 | B5 | | |
| BH (60°-80°) | 7523.1 | 15.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 98.5 | 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-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5968.2 | 5968.2 | 5968.2 | 5968.2 | 5968.2 | 5968.2 | 5968.2 | 5968.2 | 5968.2 | 5968.2 |
| 2.5° | 6008.5 | 5988.4 | 6003.5 | 5990.9 | 5980.8 | 5970.7 | 5975.8 | 5993.4 | 6000.9 | 6003.5 |
| 5° | 6089.0 | 6071.4 | 6078.9 | 6078.9 | 6061.3 | 6056.3 | 6058.8 | 6071.4 | 6086.5 | 6086.5 |
| 7.5° | 6219.8 | 6202.2 | 6219.8 | 6209.8 | 6194.7 | 6189.7 | 6187.1 | 6197.2 | 6219.8 | 6219.8 |
| 10° | 6378.4 | 6358.2 | 6368.3 | 6363.3 | 6345.7 | 6338.1 | 6335.6 | 6350.7 | 6370.8 | 6368.3 |
| 12.5° | 6552.0 | 6529.3 | 6541.9 | 6526.8 | 6521.8 | 6514.2 | 6514.2 | 6511.7 | 6524.3 | 6514.2 |
| 15° | 6745.7 | 6730.6 | 6735.6 | 6725.6 | 6733.1 | 6728.1 | 6708.0 | 6697.9 | 6702.9 | 6687.8 |
| 17.5° | 6974.7 | 6939.5 | 6957.1 | 6952.0 | 6952.0 | 6962.1 | 6929.4 | 6916.8 | 6926.9 | 6911.8 |
| 20° | 7238.9 | 7203.6 | 7211.2 | 7201.1 | 7188.5 | 7198.6 | 7158.4 | 7168.4 | 7176.0 | 7165.9 |
| 22.5° | 7528.2 | 7482.9 | 7480.4 | 7485.5 | 7457.8 | 7460.3 | 7432.6 | 7457.8 | 7472.9 | 7445.2 |
| 25° | 7825.1 | 7777.3 | 7810.0 | 7797.5 | 7762.2 | 7769.8 | 7749.6 | 7774.8 | 7787.4 | 7752.2 |
| 27.5° | 8139.6 | 8106.9 | 8137.1 | 8144.7 | 8101.9 | 8132.1 | 8101.9 | 8124.5 | 8137.1 | 8084.3 |
| 30° | 8507.0 | 8474.3 | 8502.0 | 8522.1 | 8471.8 | 8519.6 | 8494.4 | 8509.5 | 8512.0 | 8449.1 |
| 32.5° | 8907.1 | 8856.7 | 8927.2 | 8937.3 | 8881.9 | 8939.8 | 8907.1 | 8927.2 | 8939.8 | 8854.2 |
| 35° | 9395.2 | 9332.3 | 9412.8 | 9400.2 | 9352.4 | 9400.2 | 9370.0 | 9400.2 | 9430.4 | 9327.3 |
| 37.5° | 9921.1 | 9855.6 | 9941.2 | 9918.5 | 9873.2 | 9906.0 | 9888.3 | 9908.5 | 9956.3 | 9845.6 |
| 40° | 10499.8 | 10419.2 | 10535.0 | 10494.7 | 10452.0 | 10446.9 | 10457.0 | 10469.6 | 10532.5 | 10409.2 |
| 42.5° | 11118.7 | 11033.2 | 11206.8 | 11143.9 | 11083.5 | 11043.2 | 11076.0 | 11101.1 | 11161.5 | 11023.1 |
| 45° | 11825.8 | 11727.6 | 11954.1 | 11878.6 | 11783.0 | 11699.9 | 11752.8 | 11790.5 | 11878.6 | 11712.5 |
| 47.5° | 12605.8 | 12495.0 | 12736.6 | 12713.9 | 12557.9 | 12376.8 | 12497.6 | 12605.8 | 12671.2 | 12469.9 |
| 50° | 13368.1 | 13282.6 | 13599.6 | 13627.3 | 13436.1 | 13181.9 | 13350.5 | 13514.1 | 13531.7 | 13267.5 |
| 52.5° | 14082.7 | 13997.2 | 14457.6 | 14631.2 | 14460.1 | 14158.2 | 14336.8 | 14502.9 | 14369.6 | 14027.4 |
| 55° | 14653.9 | 14583.4 | 15169.7 | 15617.5 | 15675.4 | 15426.3 | 15532.0 | 15527.0 | 15089.2 | 14563.3 |
| 57.5° | 14792.3 | 14782.2 | 15521.9 | 16470.5 | 17074.4 | 17104.6 | 16895.7 | 16362.3 | 15418.8 | 14711.7 |
| 60° | 14163.2 | 14226.1 | 15242.6 | 16915.9 | 18526.2 | 19195.5 | 18292.2 | 16769.9 | 15043.9 | 14062.6 |
| 62.5° | 12281.2 | 12447.2 | 13672.6 | 16372.4 | 19698.7 | 21600.9 | 19411.9 | 16151.0 | 13504.0 | 12223.3 |
| 65° | 8801.4 | 9090.7 | 10444.4 | 13972.0 | 19593.0 | 23714.4 | 19250.8 | 13858.8 | 10545.1 | 9068.1 |
| 67.5° | 3993.1 | 4287.5 | 5437.3 | 9566.3 | 17031.6 | 23140.7 | 16991.3 | 9666.9 | 5709.1 | 4302.6 |
| 70° | 1446.8 | 1497.1 | 1867.0 | 3829.5 | 10884.7 | 18438.1 | 11350.2 | 3857.2 | 1985.2 | 1595.2 |
| 72.5° | 875.6 | 883.2 | 961.2 | 1371.3 | 3781.7 | 11194.2 | 3942.8 | 1416.6 | 981.3 | 870.6 |
| 75° | 556.1 | 551.0 | 684.4 | 837.9 | 1341.1 | 3776.7 | 1406.5 | 837.9 | 681.9 | 621.5 |
| 77.5° | 400.1 | 412.6 | 490.6 | 626.5 | 845.4 | 1280.7 | 830.3 | 598.8 | 490.6 | 402.6 |
| 80° | 299.4 | 307.0 | 357.3 | 488.1 | 593.8 | 797.6 | 528.4 | 442.8 | 369.9 | 251.6 |
| 82.5° | 216.4 | 216.4 | 234.0 | 354.8 | 362.3 | 430.3 | 286.8 | 312.0 | 244.1 | 178.6 |
| 85° | 128.3 | 125.8 | 145.9 | 211.4 | 188.7 | 158.5 | 130.8 | 191.2 | 153.5 | 110.7 |
| 87.5° | 45.3 | 47.8 | 45.3 | 60.4 | 50.3 | 42.8 | 40.3 | 52.8 | 42.8 | 37.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 5968.2 |
| 6003.5 |
| 6086.5 |
| 6212.3 |
| 6363.3 |
| 6519.3 |
| 6690.4 |
| 6924.4 |
| 7188.5 |
| 7472.9 |
| 7792.4 |
| 8124.5 |
| 8486.9 |
| 8912.1 |
| 9390.2 |
| 9913.5 |
| 10449.4 |
| 11096.1 |
| 11798.1 |
| 12537.8 |
| 13300.2 |
| 14037.4 |
| 14580.9 |
| 14666.5 |
| 13946.8 |
| 12147.8 |
| 8959.9 |
| 4239.7 |
| 1575.1 |
| 885.7 |
| 626.5 |
| 410.1 |
| 259.2 |
| 178.6 |
| 108.2 |
| 35.2 |
| 0.0 |

OF REPORT)