

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: P950018

Luminaire Tested: **GALN-SB4C-835-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950018
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-SB4C-835-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29173 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

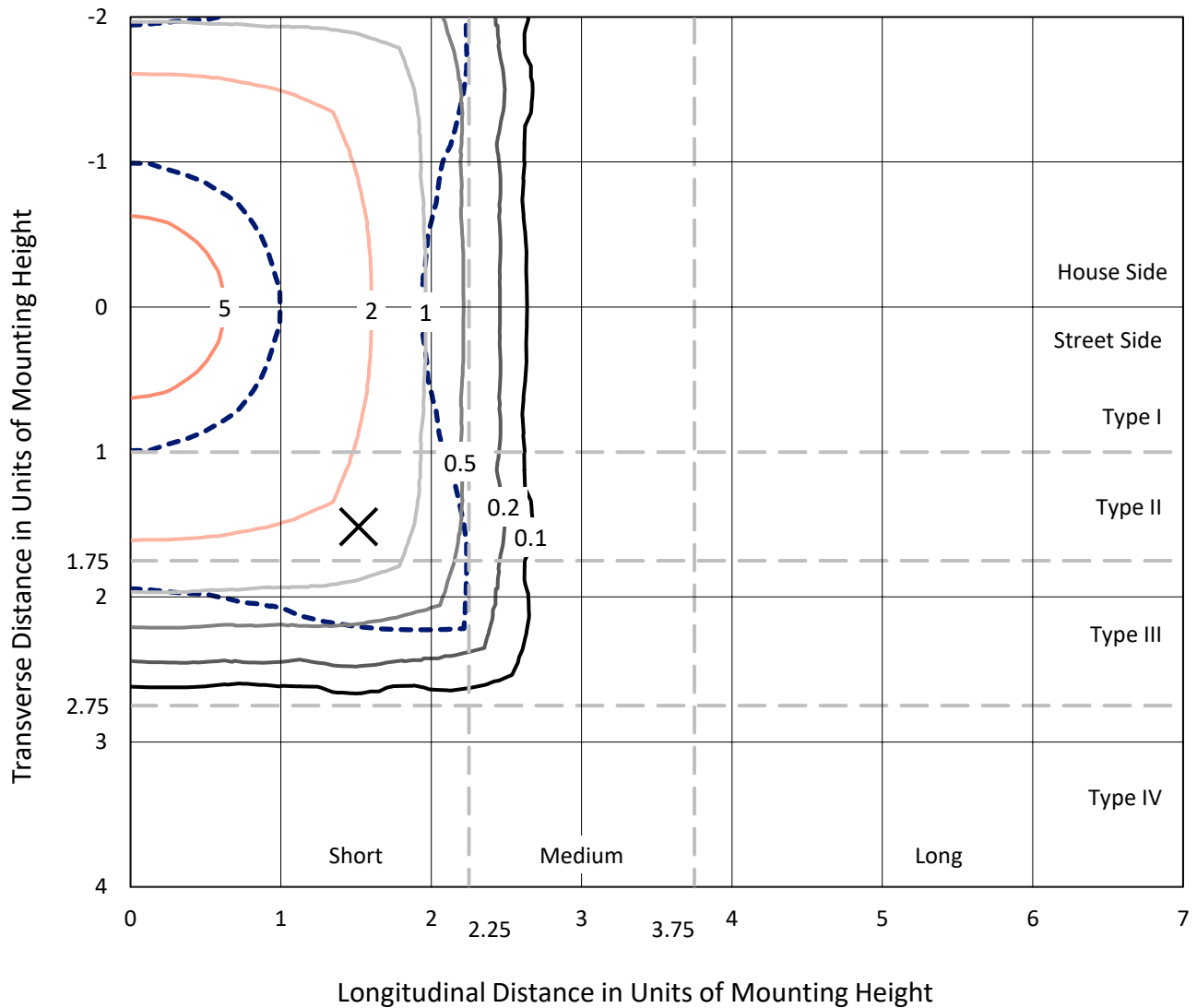
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

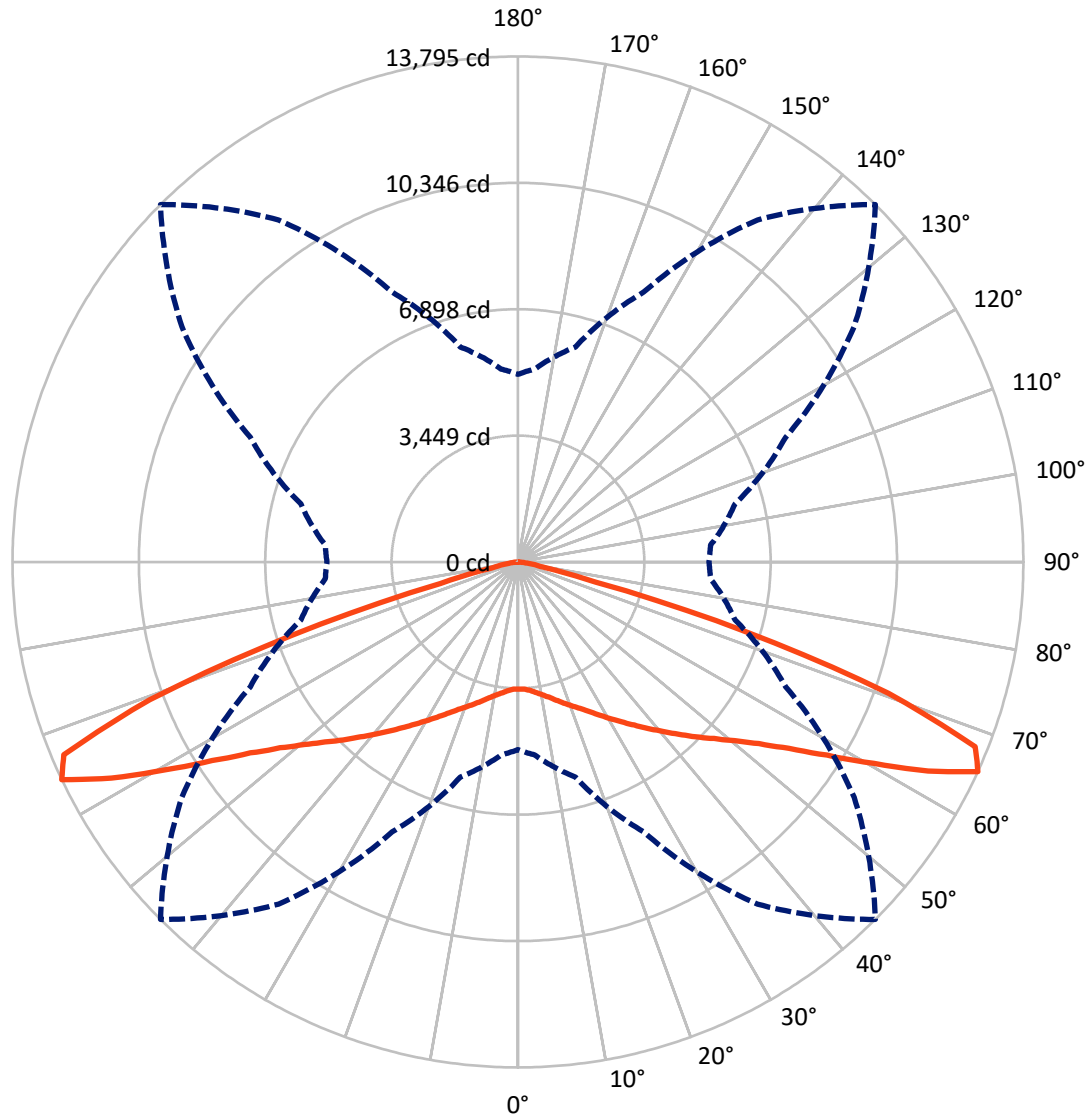
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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 | 14586.5 | 0.0 | 14586.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14586.5 | 0.0 | 14586.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29173.0 | 0.0 | 29173.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.6 | 1.2 |
| 10°-20° | 1118.1 | 3.8 |
| 20°-30° | 2111.0 | 7.2 |
| 30°-40° | 3456.7 | 11.8 |
| 40°-50° | 5359.7 | 18.4 |
| 50°-60° | 7917.4 | 27.1 |
| 60°-70° | 7536.6 | 25.8 |
| 70°-80° | 1216.1 | 4.2 |
| 80°-90° | 114.6 | 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° | 29173.0 | 100.0 |
| 0°-180° | 29173.0 | 100.0 |

Coefficient of Utilization



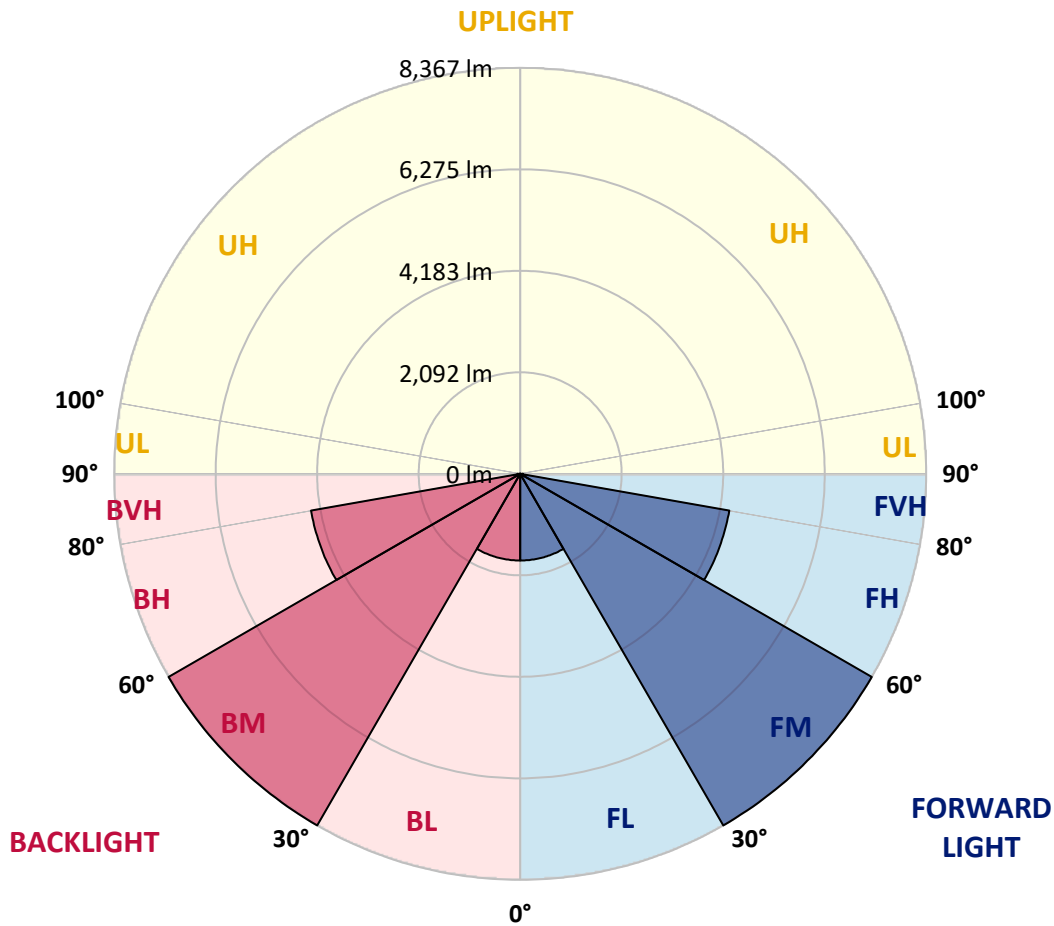
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1785.9 | 6.1 | | | |
| FM (30°-60°) | 8366.9 | 28.7 | | | |
| FH (60°-80°) | 4376.4 | 15.0 | | | G2/5000 |
| FVH (80°-90°) | 57.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1785.9 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 8366.9 | 28.7 | B4/8500 | | |
| BH (60°-80°) | 4376.4 | 15.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 57.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 3471.9 | 3471.9 | 3471.9 | 3471.9 | 3471.9 | 3471.9 | 3471.9 | 3471.9 | 3471.9 | 3471.9 |
| 2.5° | 3495.3 | 3483.6 | 3492.4 | 3485.1 | 3479.2 | 3473.3 | 3476.3 | 3486.5 | 3490.9 | 3492.4 |
| 5° | 3542.1 | 3531.9 | 3536.3 | 3536.3 | 3526.0 | 3523.1 | 3524.6 | 3531.9 | 3540.7 | 3540.7 |
| 7.5° | 3618.2 | 3608.0 | 3618.2 | 3612.4 | 3603.6 | 3600.7 | 3599.2 | 3605.1 | 3618.2 | 3618.2 |
| 10° | 3710.5 | 3698.8 | 3704.6 | 3701.7 | 3691.4 | 3687.0 | 3685.6 | 3694.4 | 3706.1 | 3704.6 |
| 12.5° | 3811.5 | 3798.3 | 3805.6 | 3796.8 | 3793.9 | 3789.5 | 3789.5 | 3788.0 | 3795.4 | 3789.5 |
| 15° | 3924.2 | 3915.4 | 3918.3 | 3912.5 | 3916.8 | 3913.9 | 3902.2 | 3896.3 | 3899.3 | 3890.5 |
| 17.5° | 4057.4 | 4036.9 | 4047.1 | 4044.2 | 4044.2 | 4050.0 | 4031.0 | 4023.7 | 4029.5 | 4020.8 |
| 20° | 4211.0 | 4190.6 | 4194.9 | 4189.1 | 4181.8 | 4187.6 | 4164.2 | 4170.1 | 4174.5 | 4168.6 |
| 22.5° | 4379.4 | 4353.0 | 4351.6 | 4354.5 | 4338.4 | 4339.8 | 4323.7 | 4338.4 | 4347.2 | 4331.1 |
| 25° | 4552.1 | 4524.3 | 4543.3 | 4536.0 | 4515.5 | 4519.9 | 4508.2 | 4522.8 | 4530.1 | 4509.6 |
| 27.5° | 4735.0 | 4716.0 | 4733.6 | 4738.0 | 4713.1 | 4730.7 | 4713.1 | 4726.3 | 4733.6 | 4702.8 |
| 30° | 4948.7 | 4929.7 | 4945.8 | 4957.5 | 4928.3 | 4956.1 | 4941.4 | 4950.2 | 4951.7 | 4915.1 |
| 32.5° | 5181.5 | 5152.2 | 5193.2 | 5199.0 | 5166.8 | 5200.5 | 5181.5 | 5193.2 | 5200.5 | 5150.7 |
| 35° | 5465.4 | 5428.8 | 5475.7 | 5468.4 | 5440.5 | 5468.4 | 5450.8 | 5468.4 | 5485.9 | 5425.9 |
| 37.5° | 5771.3 | 5733.3 | 5783.0 | 5769.9 | 5743.5 | 5762.6 | 5752.3 | 5764.0 | 5791.8 | 5727.4 |
| 40° | 6108.0 | 6061.2 | 6128.5 | 6105.1 | 6080.2 | 6077.3 | 6083.1 | 6090.4 | 6127.0 | 6055.3 |
| 42.5° | 6468.1 | 6418.3 | 6519.3 | 6482.7 | 6447.6 | 6424.1 | 6443.2 | 6457.8 | 6492.9 | 6412.4 |
| 45° | 6879.4 | 6822.3 | 6954.0 | 6910.1 | 6854.5 | 6806.2 | 6836.9 | 6858.9 | 6910.1 | 6813.5 |
| 47.5° | 7333.1 | 7268.7 | 7409.2 | 7396.0 | 7305.3 | 7199.9 | 7270.2 | 7333.1 | 7371.2 | 7254.1 |
| 50° | 7776.6 | 7726.8 | 7911.3 | 7927.4 | 7816.1 | 7668.3 | 7766.4 | 7861.5 | 7871.7 | 7718.1 |
| 52.5° | 8192.3 | 8142.5 | 8410.4 | 8511.4 | 8411.8 | 8236.2 | 8340.1 | 8436.7 | 8359.1 | 8160.1 |
| 55° | 8524.5 | 8483.6 | 8824.6 | 9085.1 | 9118.8 | 8973.9 | 9035.4 | 9032.4 | 8777.8 | 8471.9 |
| 57.5° | 8605.0 | 8599.2 | 9029.5 | 9581.3 | 9932.6 | 9950.2 | 9828.7 | 9518.4 | 8969.5 | 8558.2 |
| 60° | 8239.1 | 8275.7 | 8867.0 | 9840.4 | 10777.2 | 11166.5 | 10641.0 | 9755.5 | 8751.4 | 8180.6 |
| 62.5° | 7144.3 | 7240.9 | 7953.7 | 9524.2 | 11459.2 | 12565.8 | 11292.4 | 9395.4 | 7855.6 | 7110.6 |
| 65° | 5120.0 | 5288.3 | 6075.8 | 8127.9 | 11397.8 | 13795.3 | 11198.7 | 8062.0 | 6134.3 | 5275.1 |
| 67.5° | 2322.9 | 2494.1 | 3163.0 | 5565.0 | 9907.7 | 13461.6 | 9884.3 | 5623.5 | 3321.1 | 2502.9 |
| 70° | 841.6 | 870.9 | 1086.1 | 2227.7 | 6331.9 | 10725.9 | 6602.7 | 2243.8 | 1154.9 | 928.0 |
| 72.5° | 509.4 | 513.8 | 559.1 | 797.7 | 2199.9 | 6512.0 | 2293.6 | 824.1 | 570.8 | 506.4 |
| 75° | 323.5 | 320.5 | 398.1 | 487.4 | 780.1 | 2197.0 | 818.2 | 487.4 | 396.7 | 361.5 |
| 77.5° | 232.7 | 240.0 | 285.4 | 364.5 | 491.8 | 745.0 | 483.0 | 348.4 | 285.4 | 234.2 |
| 80° | 174.2 | 178.6 | 207.8 | 284.0 | 345.4 | 464.0 | 307.4 | 257.6 | 215.2 | 146.4 |
| 82.5° | 125.9 | 125.9 | 136.1 | 206.4 | 210.8 | 250.3 | 166.9 | 181.5 | 142.0 | 103.9 |
| 85° | 74.6 | 73.2 | 84.9 | 123.0 | 109.8 | 92.2 | 76.1 | 111.2 | 89.3 | 64.4 |
| 87.5° | 26.3 | 27.8 | 26.3 | 35.1 | 29.3 | 24.9 | 23.4 | 30.7 | 24.9 | 22.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 3471.9 |
| 3492.4 |
| 3540.7 |
| 3613.9 |
| 3701.7 |
| 3792.4 |
| 3892.0 |
| 4028.1 |
| 4181.8 |
| 4347.2 |
| 4533.1 |
| 4726.3 |
| 4937.0 |
| 5184.4 |
| 5462.5 |
| 5766.9 |
| 6078.7 |
| 6454.9 |
| 6863.3 |
| 7293.6 |
| 7737.1 |
| 8165.9 |
| 8482.1 |
| 8531.9 |
| 8113.2 |
| 7066.7 |
| 5212.2 |
| 2466.3 |
| 916.3 |
| 515.2 |
| 364.5 |
| 238.6 |
| 150.8 |
| 103.9 |
| 62.9 |
| 20.5 |
| 0.0 |

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