

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: P953125

Luminaire Tested: **GALN-SB6D-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953125
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-SB6D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68371 lumens
Efficiency: N/A
Efficacy: 155.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

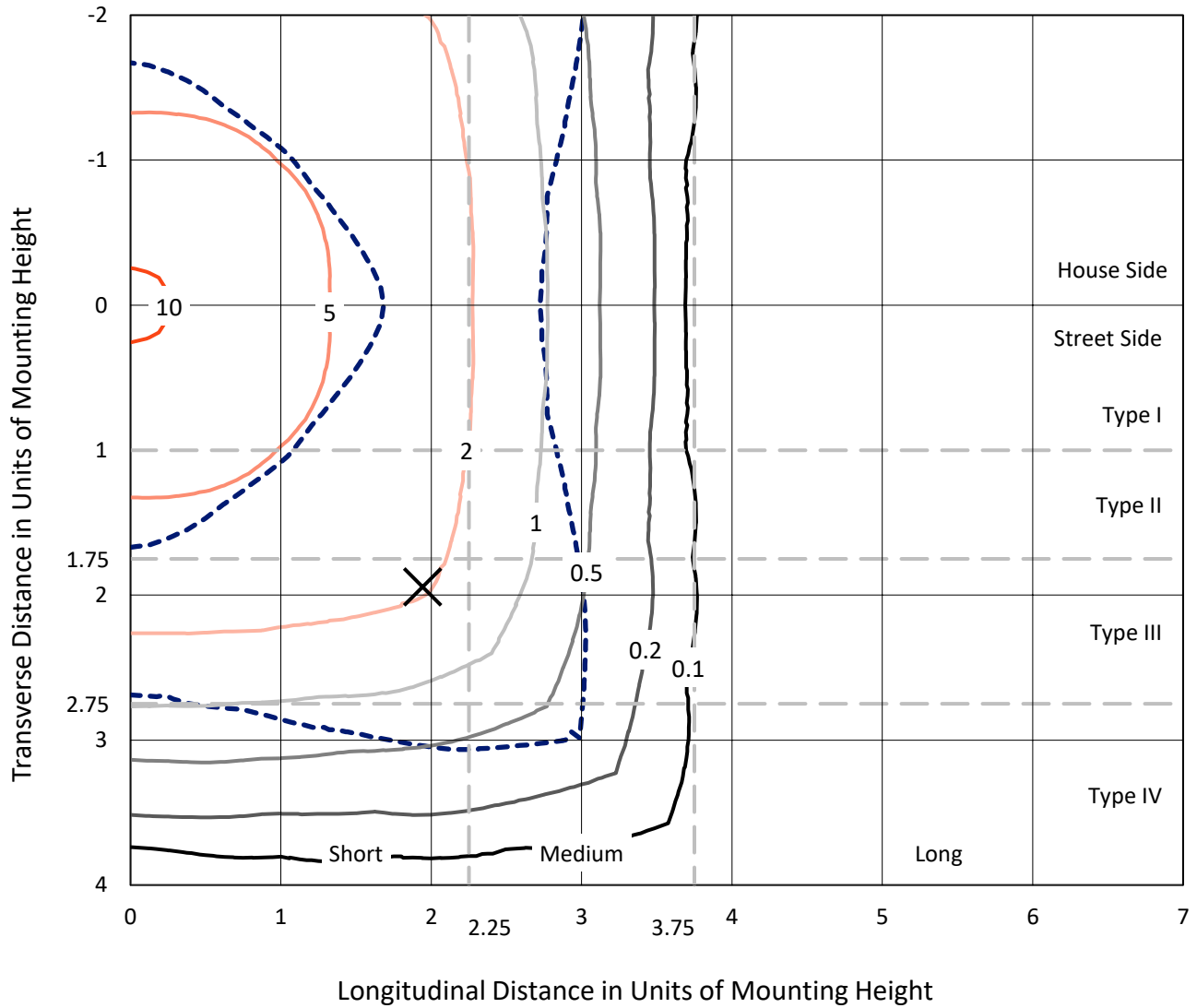
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

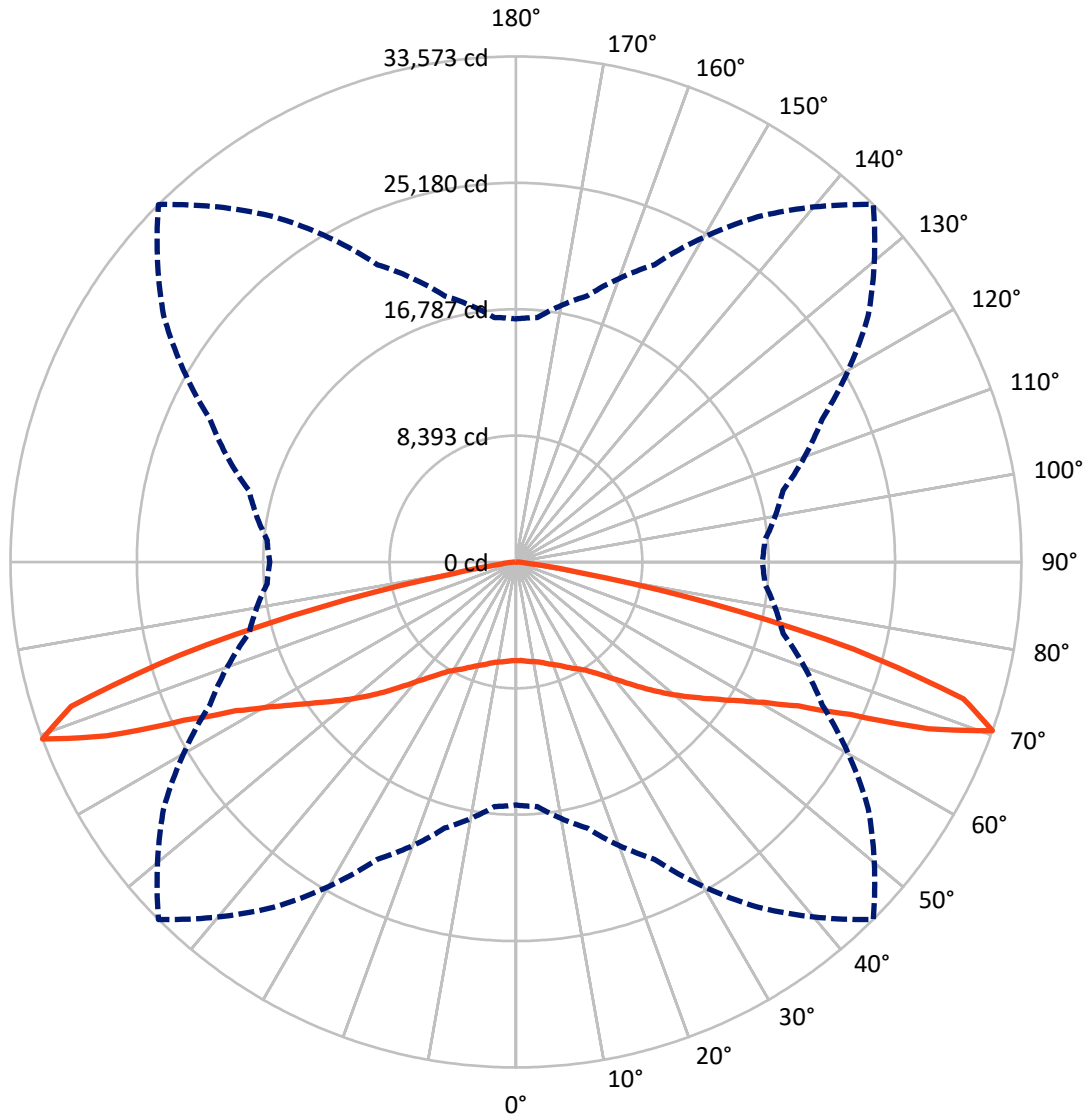
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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 | 34185.5 | 0.0 | 34185.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 34185.5 | 0.0 | 34185.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 68371.0 | 0.0 | 68371.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 636.3 | 0.9 |
| 10°-20° | 1973.0 | 2.9 |
| 20°-30° | 3525.9 | 5.2 |
| 30°-40° | 5715.5 | 8.4 |
| 40°-50° | 9309.6 | 13.6 |
| 50°-60° | 14193.9 | 20.8 |
| 60°-70° | 21116.0 | 30.9 |
| 70°-80° | 11508.9 | 16.8 |
| 80°-90° | 391.9 | 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° | 68371.0 | 100.0 |
| 0°-180° | 68371.0 | 100.0 |

Coefficient of Utilization



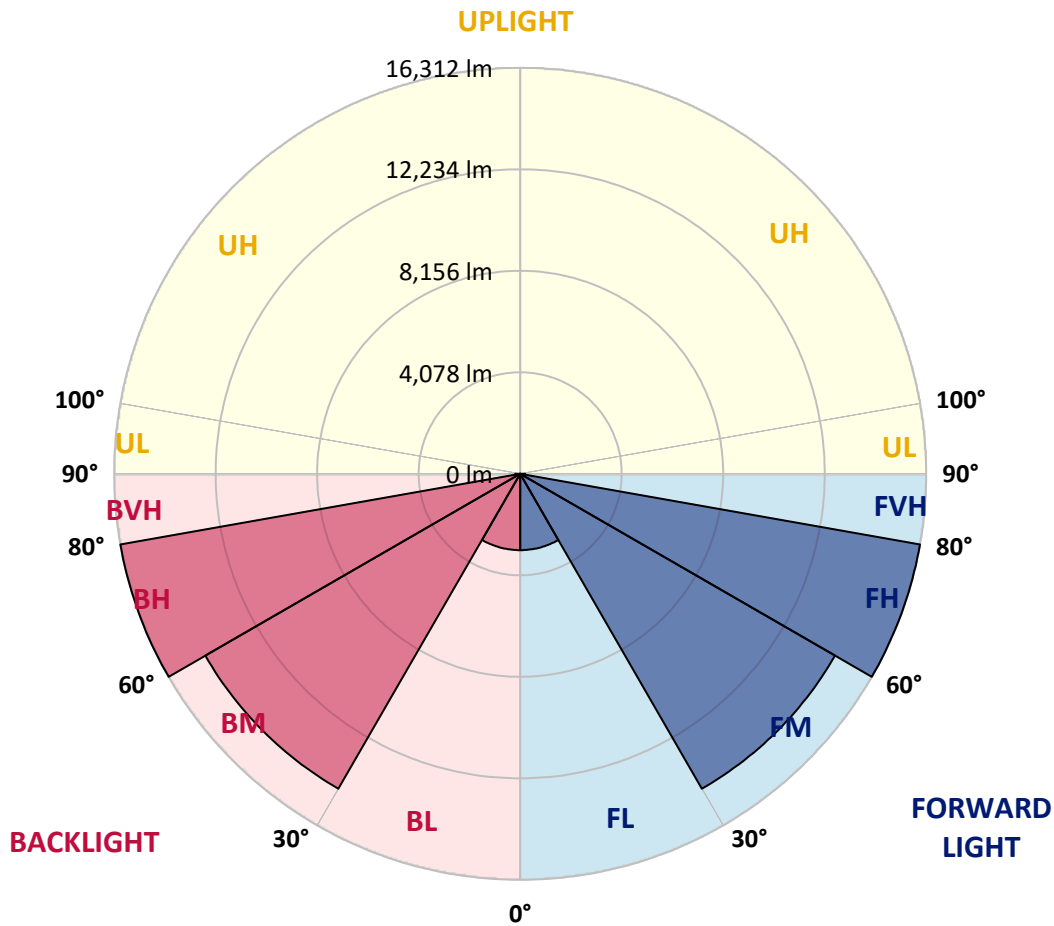
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3067.6 | 4.5 | | | |
| FM (30°-60°) | 14609.5 | 21.4 | | | |
| FH (60°-80°) | 16312.5 | 23.9 | | | G5 |
| FVH (80°-90°) | 196.0 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3067.6 | 4.5 | B4/5000 | | |
| BM (30°-60°) | 14609.5 | 21.4 | B5 | | |
| BH (60°-80°) | 16312.5 | 23.9 | B5 | | G5 |
| BVH (80°-90°) | 196.0 | 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-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6549.2 | 6549.2 | 6549.2 | 6549.2 | 6549.2 | 6549.2 | 6549.2 | 6549.2 | 6549.2 | 6549.2 |
| 2.5° | 6580.1 | 6587.0 | 6573.3 | 6566.4 | 6559.5 | 6549.2 | 6552.7 | 6569.8 | 6583.6 | 6580.1 |
| 5° | 6635.0 | 6641.9 | 6631.6 | 6628.2 | 6614.5 | 6611.0 | 6611.0 | 6628.2 | 6638.5 | 6631.6 |
| 7.5° | 6696.8 | 6707.1 | 6690.0 | 6686.5 | 6679.7 | 6672.8 | 6669.4 | 6686.5 | 6696.8 | 6696.8 |
| 10° | 6755.2 | 6765.5 | 6751.8 | 6741.5 | 6734.6 | 6734.6 | 6727.7 | 6741.5 | 6758.6 | 6755.2 |
| 12.5° | 6817.0 | 6823.8 | 6810.1 | 6803.2 | 6803.2 | 6813.5 | 6803.2 | 6810.1 | 6823.8 | 6817.0 |
| 15° | 6892.5 | 6895.9 | 6892.5 | 6902.8 | 6919.9 | 6954.3 | 6923.4 | 6916.5 | 6923.4 | 6906.2 |
| 17.5° | 6995.5 | 7002.3 | 7016.1 | 7040.1 | 7064.1 | 7125.9 | 7071.0 | 7053.8 | 7053.8 | 7019.5 |
| 20° | 7122.5 | 7132.8 | 7153.4 | 7194.5 | 7225.4 | 7283.8 | 7228.9 | 7204.8 | 7194.5 | 7149.9 |
| 22.5° | 7256.3 | 7273.5 | 7304.4 | 7359.3 | 7414.2 | 7469.1 | 7414.2 | 7373.0 | 7342.1 | 7283.8 |
| 25° | 7410.8 | 7431.4 | 7479.4 | 7568.7 | 7644.2 | 7723.2 | 7657.9 | 7575.6 | 7513.8 | 7431.4 |
| 27.5° | 7630.5 | 7654.5 | 7712.9 | 7822.7 | 7918.8 | 7987.5 | 7925.7 | 7819.3 | 7733.5 | 7633.9 |
| 30° | 7939.4 | 7963.4 | 8032.1 | 8148.8 | 8214.0 | 8258.6 | 8217.4 | 8135.1 | 8032.1 | 7918.8 |
| 32.5° | 8337.6 | 8368.5 | 8444.0 | 8553.8 | 8567.6 | 8574.4 | 8560.7 | 8519.5 | 8444.0 | 8306.7 |
| 35° | 8842.2 | 8876.5 | 8962.3 | 9051.5 | 9037.8 | 9051.5 | 9030.9 | 9017.2 | 8962.3 | 8804.4 |
| 37.5° | 9460.0 | 9501.2 | 9590.4 | 9659.1 | 9624.8 | 9607.6 | 9611.0 | 9614.5 | 9583.6 | 9408.5 |
| 40° | 10177.4 | 10232.3 | 10297.5 | 10369.6 | 10311.3 | 10259.8 | 10294.1 | 10321.6 | 10294.1 | 10115.6 |
| 42.5° | 10915.4 | 10994.3 | 11063.0 | 11166.0 | 11117.9 | 11052.7 | 11100.7 | 11131.6 | 11073.3 | 10881.1 |
| 45° | 11735.8 | 11811.3 | 11900.5 | 12055.0 | 12020.7 | 11952.0 | 12020.7 | 12027.5 | 11928.0 | 11701.4 |
| 47.5° | 12583.6 | 12662.5 | 12796.4 | 13002.4 | 12988.6 | 12913.1 | 13002.4 | 12954.3 | 12827.3 | 12556.1 |
| 50° | 13386.8 | 13496.6 | 13702.6 | 13990.9 | 14018.4 | 13925.7 | 14045.8 | 13953.2 | 13740.3 | 13400.5 |
| 52.5° | 14142.0 | 14258.7 | 14584.7 | 14976.1 | 15075.6 | 14955.5 | 15116.8 | 14955.5 | 14636.2 | 14200.3 |
| 55° | 14934.9 | 15065.3 | 15453.2 | 15964.6 | 16163.7 | 16074.5 | 16225.5 | 15981.8 | 15528.7 | 15000.1 |
| 57.5° | 15868.5 | 15947.5 | 16410.8 | 17018.4 | 17354.8 | 17375.4 | 17444.0 | 17032.1 | 16482.9 | 15882.2 |
| 60° | 16881.1 | 16990.9 | 17495.5 | 18223.2 | 18755.2 | 18926.9 | 18854.8 | 18243.8 | 17605.4 | 16915.4 |
| 62.5° | 18178.6 | 18298.7 | 18902.8 | 19774.7 | 20615.7 | 21041.3 | 20759.8 | 19874.2 | 19084.8 | 18257.5 |
| 65° | 19253.0 | 19386.8 | 20478.4 | 22033.3 | 23564.2 | 24418.9 | 23711.8 | 22081.4 | 20660.3 | 19493.2 |
| 67.5° | 18473.8 | 18638.5 | 20351.4 | 23207.2 | 27013.9 | 29564.2 | 27144.3 | 23557.3 | 20773.6 | 19191.2 |
| 70° | 16146.5 | 16301.0 | 18298.7 | 21789.6 | 27985.3 | 33573.4 | 28568.8 | 22431.5 | 18363.9 | 16592.8 |
| 72.5° | 10719.7 | 11217.5 | 13239.2 | 17426.9 | 24988.7 | 31067.7 | 25235.8 | 17073.3 | 12281.5 | 10695.7 |
| 75° | 3556.1 | 3954.3 | 5334.1 | 9034.4 | 16736.9 | 23234.7 | 15933.7 | 7994.3 | 4225.4 | 3041.2 |
| 77.5° | 895.9 | 1033.2 | 1424.5 | 2584.7 | 6676.2 | 13228.9 | 6010.3 | 2111.0 | 1149.9 | 803.2 |
| 80° | 435.9 | 480.6 | 686.5 | 861.6 | 1671.6 | 4204.8 | 1568.7 | 810.1 | 542.3 | 418.8 |
| 82.5° | 240.3 | 243.7 | 387.9 | 487.4 | 621.3 | 1088.1 | 645.3 | 473.7 | 312.4 | 254.0 |
| 85° | 147.6 | 144.2 | 206.0 | 260.9 | 260.9 | 387.9 | 308.9 | 260.9 | 178.5 | 157.9 |
| 87.5° | 58.4 | 58.4 | 75.5 | 82.4 | 72.1 | 99.5 | 78.9 | 85.8 | 68.7 | 65.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 6549.2 |
| 6583.6 |
| 6635.0 |
| 6696.8 |
| 6755.2 |
| 6813.5 |
| 6906.2 |
| 7019.5 |
| 7149.9 |
| 7280.4 |
| 7428.0 |
| 7630.5 |
| 7918.8 |
| 8310.1 |
| 8804.4 |
| 9408.5 |
| 10115.6 |
| 10894.8 |
| 11725.5 |
| 12539.0 |
| 13393.7 |
| 14159.1 |
| 14928.0 |
| 15799.9 |
| 16805.6 |
| 18113.4 |
| 19301.0 |
| 18954.3 |
| 16355.9 |
| 10349.0 |
| 2876.4 |
| 717.4 |
| 384.4 |
| 254.0 |
| 164.8 |
| 68.7 |
| 0.0 |

OF REPORT)