

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: P527727

Luminaire Tested: **GALN-SA2D-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8697 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

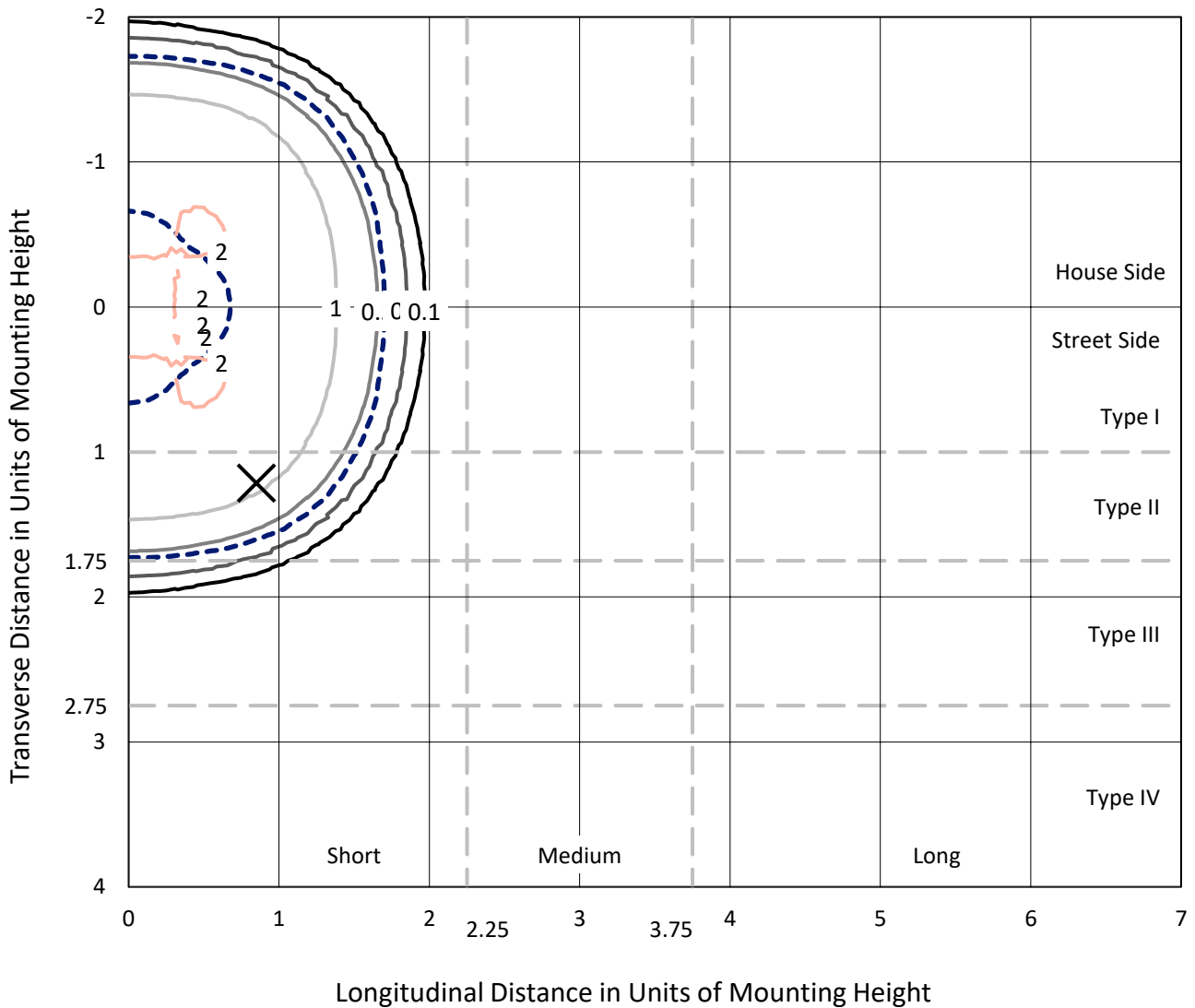
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

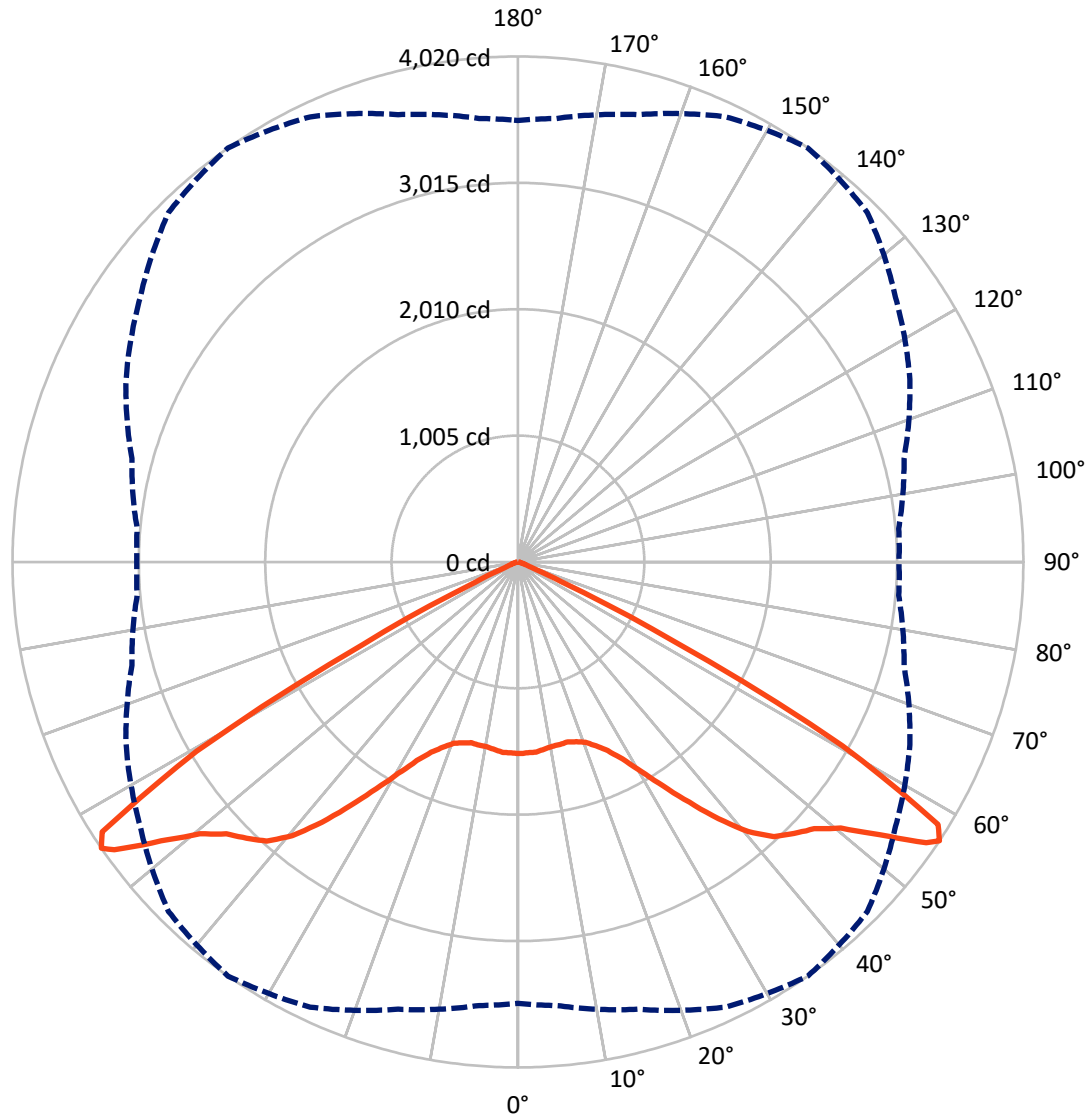
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4348.5 | 0.0 | 4348.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4348.5 | 0.0 | 4348.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8697.0 | 0.0 | 8697.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.2 | 1.6 |
| 10°-20° | 418.1 | 4.8 |
| 20°-30° | 757.2 | 8.7 |
| 30°-40° | 1404.1 | 16.1 |
| 40°-50° | 2304.8 | 26.5 |
| 50°-60° | 2969.2 | 34.1 |
| 60°-70° | 654.4 | 7.5 |
| 70°-80° | 38.0 | 0.4 |
| 80°-90° | 8.0 | 0.1 |
| 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° | 8697.0 | 100.0 |
| 0°-180° | 8697.0 | 100.0 |

Coefficient of Utilization

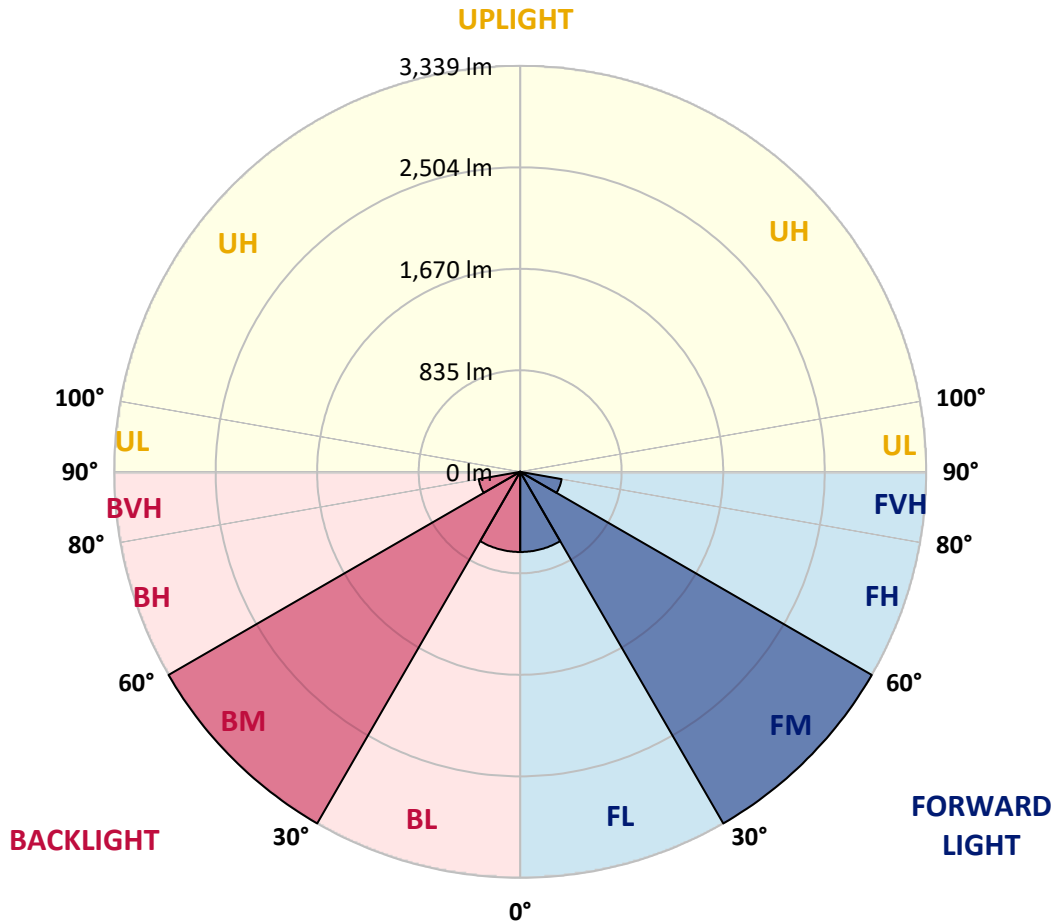


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 659.3 | 7.6 | | | |
| FM (30°-60°) | 3339.0 | 38.4 | | | |
| FH (60°-80°) | 346.2 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 659.3 | 7.6 | B2/1000 | | |
| BM (30°-60°) | 3339.0 | 38.4 | B3/5000 | | |
| BH (60°-80°) | 346.2 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 | 1523.9 |
| 2.5° | 1527.1 | 1527.1 | 1528.6 | 1530.2 | 1519.2 | 1514.4 | 1516.0 | 1512.9 | 1511.3 | 1516.0 | 1516.0 |
| 5° | 1522.3 | 1522.3 | 1517.6 | 1519.2 | 1519.2 | 1505.0 | 1505.0 | 1508.1 | 1508.1 | 1498.7 | 1495.5 |
| 7.5° | 1509.7 | 1506.6 | 1500.3 | 1508.1 | 1503.4 | 1503.4 | 1492.4 | 1484.5 | 1481.4 | 1487.7 | 1481.4 |
| 10° | 1482.9 | 1484.5 | 1490.8 | 1494.0 | 1490.8 | 1500.3 | 1481.4 | 1470.3 | 1459.3 | 1454.6 | 1454.6 |
| 12.5° | 1470.3 | 1479.8 | 1470.3 | 1478.2 | 1489.2 | 1481.4 | 1470.3 | 1462.4 | 1446.7 | 1440.4 | 1440.4 |
| 15° | 1468.7 | 1475.0 | 1478.2 | 1489.2 | 1484.5 | 1487.7 | 1465.6 | 1456.1 | 1432.5 | 1421.5 | 1416.7 |
| 17.5° | 1467.2 | 1475.0 | 1479.8 | 1500.3 | 1503.4 | 1505.0 | 1487.7 | 1459.3 | 1438.8 | 1427.8 | 1416.7 |
| 20° | 1484.5 | 1487.7 | 1497.1 | 1517.6 | 1530.2 | 1552.3 | 1520.7 | 1490.8 | 1446.7 | 1434.1 | 1429.3 |
| 22.5° | 1506.6 | 1522.3 | 1531.8 | 1553.8 | 1586.9 | 1605.8 | 1564.9 | 1527.1 | 1481.4 | 1465.6 | 1446.7 |
| 25° | 1577.5 | 1574.3 | 1590.1 | 1635.8 | 1662.6 | 1676.8 | 1643.7 | 1588.5 | 1528.6 | 1509.7 | 1512.9 |
| 27.5° | 1665.7 | 1668.9 | 1683.1 | 1733.5 | 1772.9 | 1795.0 | 1755.6 | 1683.1 | 1624.8 | 1593.2 | 1590.1 |
| 30° | 1780.8 | 1777.6 | 1793.4 | 1861.1 | 1932.1 | 1965.2 | 1895.8 | 1810.7 | 1754.0 | 1713.0 | 1722.5 |
| 32.5° | 1902.1 | 1903.7 | 1947.8 | 2009.3 | 2124.3 | 2188.9 | 2077.0 | 1973.0 | 1887.9 | 1859.6 | 1845.4 |
| 35° | 2081.8 | 2089.7 | 2124.3 | 2218.9 | 2346.5 | 2430.0 | 2307.1 | 2182.6 | 2084.9 | 2032.9 | 2039.2 |
| 37.5° | 2304.0 | 2296.1 | 2354.4 | 2456.8 | 2590.8 | 2652.3 | 2548.2 | 2406.4 | 2307.1 | 2272.5 | 2294.5 |
| 40° | 2540.4 | 2548.2 | 2578.2 | 2671.2 | 2820.9 | 2861.8 | 2707.4 | 2630.2 | 2543.5 | 2526.2 | 2553.0 |
| 42.5° | 2776.7 | 2772.0 | 2794.1 | 2877.6 | 2986.3 | 2958.0 | 2866.6 | 2820.9 | 2759.4 | 2724.7 | 2761.0 |
| 45° | 2950.1 | 2942.2 | 2983.2 | 3039.9 | 3079.3 | 3025.7 | 2984.8 | 2969.0 | 2937.5 | 2899.7 | 2932.8 |
| 47.5° | 3118.7 | 3112.4 | 3151.8 | 3167.6 | 3170.7 | 3099.8 | 3107.7 | 3136.1 | 3057.3 | 2978.5 | 3016.3 |
| 50° | 3262.1 | 3251.1 | 3299.9 | 3334.6 | 3326.7 | 3213.3 | 3241.6 | 3213.3 | 3090.4 | 2997.4 | 2983.2 |
| 52.5° | 3501.7 | 3506.4 | 3558.4 | 3621.4 | 3602.5 | 3508.0 | 3467.0 | 3337.8 | 3180.2 | 3096.7 | 3047.8 |
| 55° | 3653.0 | 3629.3 | 3719.1 | 3919.3 | 3941.3 | 3843.6 | 3662.4 | 3471.7 | 3235.3 | 3132.9 | 3120.3 |
| 56° | 3511.1 | 3541.1 | 3682.9 | 3906.7 | 4020.1 | 3930.3 | 3667.1 | 3438.6 | 3178.6 | 3039.9 | 3030.5 |
| 57.5° | 3150.2 | 3134.5 | 3326.7 | 3632.5 | 3941.3 | 3903.5 | 3537.9 | 3202.2 | 2899.7 | 2743.7 | 2724.7 |
| 60° | 1960.4 | 2006.1 | 2174.8 | 2553.0 | 2965.9 | 2984.8 | 2622.3 | 2333.9 | 1980.9 | 1842.2 | 1875.3 |
| 62.5° | 767.5 | 728.1 | 833.7 | 1115.7 | 1399.4 | 1462.4 | 1325.3 | 1101.6 | 904.6 | 767.5 | 758.0 |
| 65° | 178.1 | 173.3 | 195.4 | 269.5 | 376.6 | 436.5 | 414.5 | 297.8 | 219.1 | 208.0 | 192.3 |
| 67.5° | 100.9 | 100.9 | 96.1 | 96.1 | 105.6 | 111.9 | 107.2 | 105.6 | 110.3 | 115.0 | 113.5 |
| 70° | 70.9 | 69.3 | 66.2 | 67.8 | 64.6 | 64.6 | 69.3 | 77.2 | 83.5 | 83.5 | 85.1 |
| 72.5° | 42.5 | 42.5 | 42.5 | 47.3 | 47.3 | 47.3 | 52.0 | 58.3 | 59.9 | 58.3 | 56.7 |
| 75° | 18.9 | 18.9 | 22.1 | 26.8 | 29.9 | 31.5 | 36.2 | 39.4 | 42.5 | 39.4 | 36.2 |
| 77.5° | 4.7 | 4.7 | 7.9 | 11.0 | 14.2 | 17.3 | 23.6 | 28.4 | 29.9 | 28.4 | 23.6 |
| 80° | 1.6 | 1.6 | 3.2 | 7.9 | 14.2 | 17.3 | 23.6 | 25.2 | 26.8 | 23.6 | 18.9 |
| 82.5° | 1.6 | 1.6 | 3.2 | 7.9 | 11.0 | 14.2 | 18.9 | 22.1 | 23.6 | 20.5 | 18.9 |
| 85° | 0.0 | 1.6 | 3.2 | 6.3 | 9.5 | 12.6 | 12.6 | 9.5 | 7.9 | 4.7 | 6.3 |
| 87.5° | 0.0 | 0.0 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)