

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: P531394

Luminaire Tested: **GALN-SA6D-722-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-722-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29766 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

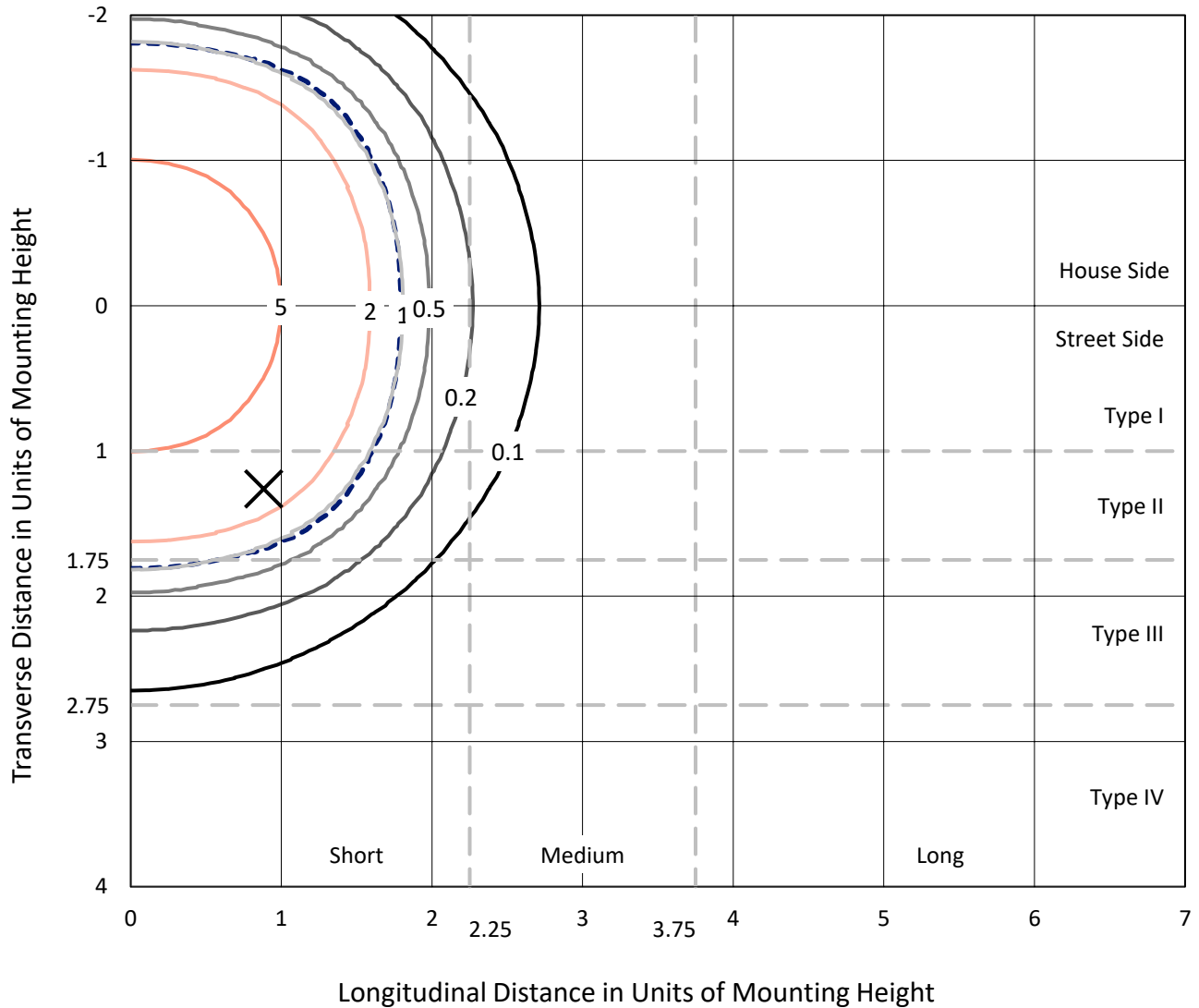
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

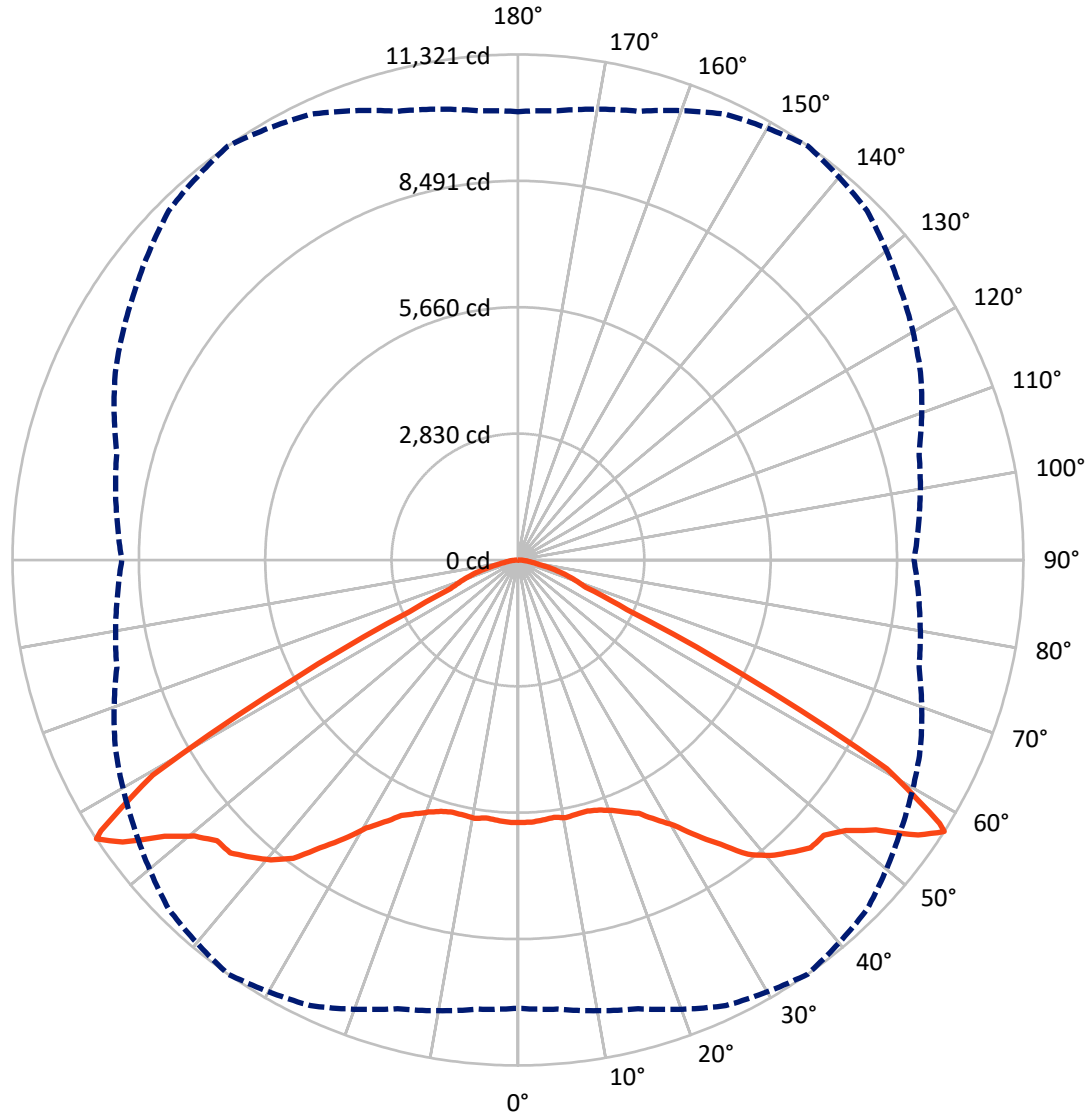
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14883.0 | 0.0 | 14883.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14883.0 | 0.0 | 14883.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29766.0 | 0.0 | 29766.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 557.3 | 1.9 |
| 10°-20° | 1650.6 | 5.5 |
| 20°-30° | 2882.7 | 9.7 |
| 30°-40° | 4723.4 | 15.9 |
| 40°-50° | 6925.7 | 23.3 |
| 50°-60° | 8723.5 | 29.3 |
| 60°-70° | 3280.8 | 11.0 |
| 70°-80° | 872.4 | 2.9 |
| 80°-90° | 149.6 | 0.5 |
| 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° | 29766.0 | 100.0 |
| 0°-180° | 29766.0 | 100.0 |



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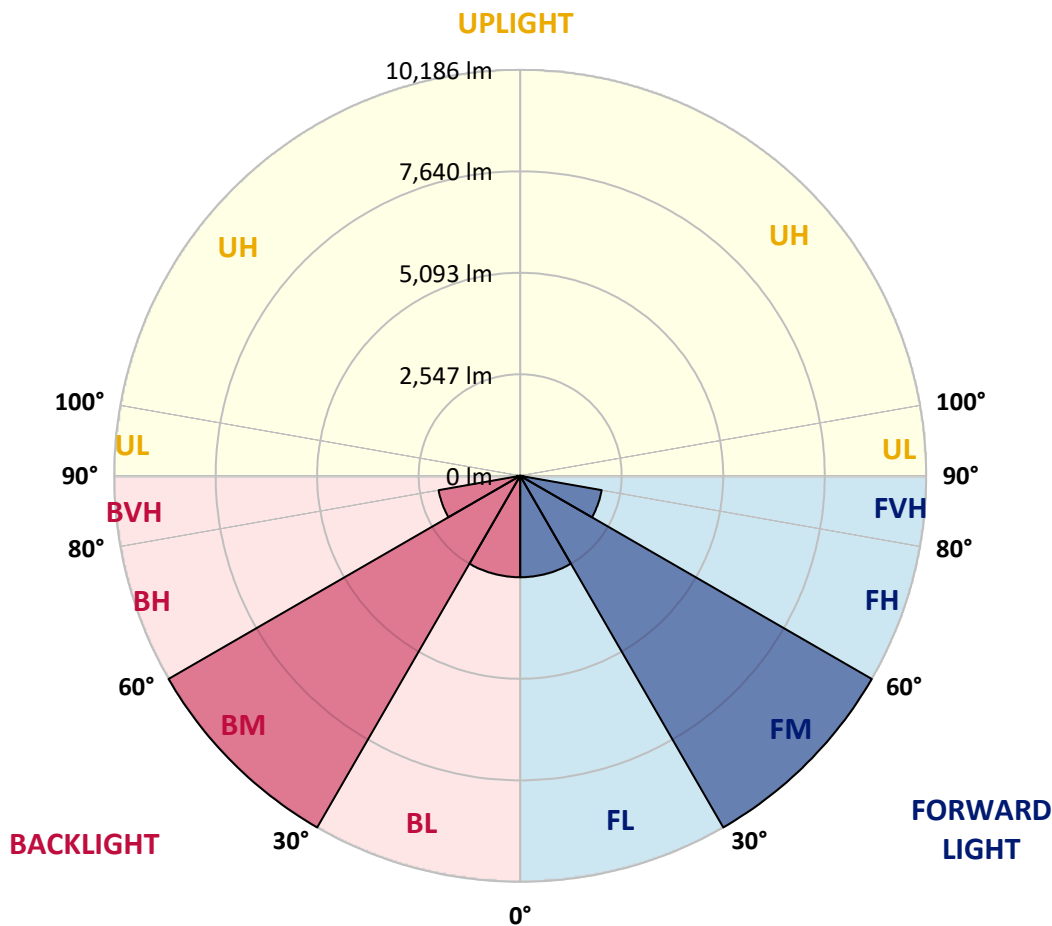
CATALOG NUMBER: GALN-SA6D-722-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2545.3 | 8.6 | | | |
| FM (30°-60°) | 10186.3 | 34.2 | | | |
| FH (60°-80°) | 2076.6 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 74.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2545.3 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 10186.3 | 34.2 | B5 | | |
| BH (60°-80°) | 2076.6 | 7.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 74.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 | 5878.6 |
| 2.5° | 5849.2 | 5907.9 | 5882.2 | 5867.6 | 5878.6 | 5860.2 | 5830.9 | 5863.9 | 5856.6 | 5827.2 | 5816.2 |
| 5° | 5834.6 | 5878.6 | 5849.2 | 5878.6 | 5849.2 | 5900.6 | 5885.9 | 5830.9 | 5896.9 | 5834.6 | 5856.6 |
| 7.5° | 5823.6 | 5838.2 | 5845.6 | 5830.9 | 5819.9 | 5882.2 | 5849.2 | 5823.6 | 5786.9 | 5775.9 | 5794.2 |
| 10° | 5797.9 | 5834.6 | 5779.6 | 5852.9 | 5867.6 | 5823.6 | 5823.6 | 5775.9 | 5746.5 | 5728.2 | 5790.6 |
| 12.5° | 5863.9 | 5801.6 | 5794.2 | 5830.9 | 5841.9 | 5860.2 | 5808.9 | 5783.2 | 5728.2 | 5735.5 | 5724.5 |
| 15° | 5786.9 | 5812.6 | 5816.2 | 5823.6 | 5834.6 | 5878.6 | 5830.9 | 5775.9 | 5753.9 | 5676.9 | 5684.2 |
| 17.5° | 5816.2 | 5790.6 | 5816.2 | 5900.6 | 5885.9 | 5918.9 | 5867.6 | 5783.2 | 5731.9 | 5687.9 | 5746.5 |
| 20° | 5867.6 | 5856.6 | 5867.6 | 5970.2 | 5988.6 | 6017.9 | 5973.9 | 5896.9 | 5797.9 | 5746.5 | 5775.9 |
| 22.5° | 5922.6 | 5915.2 | 5922.6 | 6021.6 | 6127.9 | 6164.6 | 6120.6 | 5940.9 | 5889.6 | 5794.2 | 5761.2 |
| 25° | 6021.6 | 6028.9 | 6105.9 | 6216.0 | 6285.6 | 6355.3 | 6274.6 | 6146.3 | 5981.2 | 5922.6 | 5852.9 |
| 27.5° | 6241.6 | 6260.0 | 6304.0 | 6465.3 | 6586.3 | 6648.7 | 6535.0 | 6359.0 | 6256.3 | 6135.3 | 6116.9 |
| 30° | 6513.0 | 6513.0 | 6590.0 | 6729.4 | 6894.4 | 6989.7 | 6850.4 | 6641.3 | 6516.7 | 6450.7 | 6410.3 |
| 32.5° | 6872.4 | 6832.0 | 6861.4 | 7107.1 | 7363.8 | 7444.5 | 7257.4 | 7000.7 | 6802.7 | 6714.7 | 6685.4 |
| 35° | 7180.4 | 7206.1 | 7272.1 | 7536.2 | 7822.2 | 8009.2 | 7715.8 | 7382.1 | 7180.4 | 7099.8 | 7085.1 |
| 37.5° | 7580.2 | 7624.2 | 7657.2 | 8020.2 | 8364.9 | 8434.6 | 8152.2 | 7884.5 | 7638.8 | 7572.8 | 7536.2 |
| 40° | 8144.9 | 8115.6 | 8126.6 | 8394.3 | 8706.0 | 8750.0 | 8471.3 | 8280.6 | 8078.9 | 8038.6 | 8038.6 |
| 42.5° | 8610.7 | 8577.6 | 8614.3 | 8713.3 | 8951.7 | 8918.7 | 8764.7 | 8625.3 | 8541.0 | 8497.0 | 8541.0 |
| 45° | 8893.0 | 8885.7 | 8951.7 | 9025.0 | 9193.7 | 9083.7 | 8962.7 | 8984.7 | 8904.0 | 8830.7 | 8827.0 |
| 47.5° | 9201.1 | 9153.4 | 9234.1 | 9344.1 | 9215.7 | 9164.4 | 9157.1 | 9204.7 | 9179.1 | 9050.7 | 9010.4 |
| 50° | 9351.4 | 9333.1 | 9461.4 | 9589.8 | 9520.1 | 9402.8 | 9428.4 | 9505.5 | 9175.4 | 9003.0 | 8904.0 |
| 52.5° | 9754.8 | 9758.5 | 10004.2 | 10073.9 | 10044.5 | 9872.2 | 9927.2 | 9718.2 | 9329.4 | 9087.4 | 9098.4 |
| 55° | 10389.3 | 10363.6 | 10638.6 | 10844.0 | 10877.0 | 10657.0 | 10392.9 | 10099.5 | 9611.8 | 9366.1 | 9292.8 |
| 57° | 10040.9 | 10099.5 | 10403.9 | 11012.7 | 11320.7 | 11060.4 | 10484.6 | 9949.2 | 9300.1 | 9003.0 | 8871.0 |
| 57.5° | 9575.1 | 9670.5 | 10198.6 | 10811.0 | 11133.7 | 11111.7 | 10370.9 | 9670.5 | 9091.1 | 8629.0 | 8640.0 |
| 60° | 7015.4 | 7033.7 | 7510.5 | 8482.3 | 9490.8 | 9512.8 | 8610.7 | 7682.8 | 7037.4 | 6535.0 | 6604.7 |
| 62.5° | 3700.2 | 3784.6 | 3975.3 | 4756.4 | 5629.2 | 5841.9 | 5295.5 | 4818.7 | 4261.3 | 3879.9 | 3916.6 |
| 65° | 1958.3 | 1947.3 | 2039.0 | 2259.0 | 2688.1 | 2798.1 | 2724.8 | 2347.0 | 2152.7 | 2090.3 | 2094.0 |
| 67.5° | 1591.6 | 1609.9 | 1598.9 | 1609.9 | 1639.3 | 1686.9 | 1675.9 | 1690.6 | 1701.6 | 1719.9 | 1716.3 |
| 70° | 1349.5 | 1349.5 | 1356.9 | 1360.5 | 1360.5 | 1382.5 | 1408.2 | 1455.9 | 1459.6 | 1477.9 | 1485.2 |
| 72.5° | 1063.5 | 1056.2 | 1067.2 | 1092.8 | 1096.5 | 1114.8 | 1151.5 | 1180.8 | 1191.8 | 1191.8 | 1169.8 |
| 75° | 722.4 | 729.8 | 744.4 | 766.5 | 788.5 | 821.5 | 850.8 | 869.1 | 876.5 | 865.5 | 854.5 |
| 77.5° | 407.1 | 414.4 | 425.4 | 458.4 | 484.1 | 513.4 | 546.4 | 564.8 | 583.1 | 586.8 | 564.8 |
| 80° | 242.0 | 242.0 | 260.4 | 286.0 | 315.4 | 344.7 | 374.1 | 396.1 | 403.4 | 403.4 | 392.4 |
| 82.5° | 146.7 | 150.4 | 165.0 | 190.7 | 216.4 | 234.7 | 260.4 | 278.7 | 293.4 | 289.7 | 282.4 |
| 85° | 77.0 | 77.0 | 91.7 | 113.7 | 132.0 | 150.4 | 150.4 | 139.4 | 132.0 | 113.7 | 106.3 |
| 87.5° | 25.7 | 22.0 | 29.3 | 29.3 | 25.7 | 29.3 | 29.3 | 33.0 | 33.0 | 33.0 | 33.0 |
| 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)