

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: P647204

Luminaire Tested: **GALN-SA1D-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3197 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

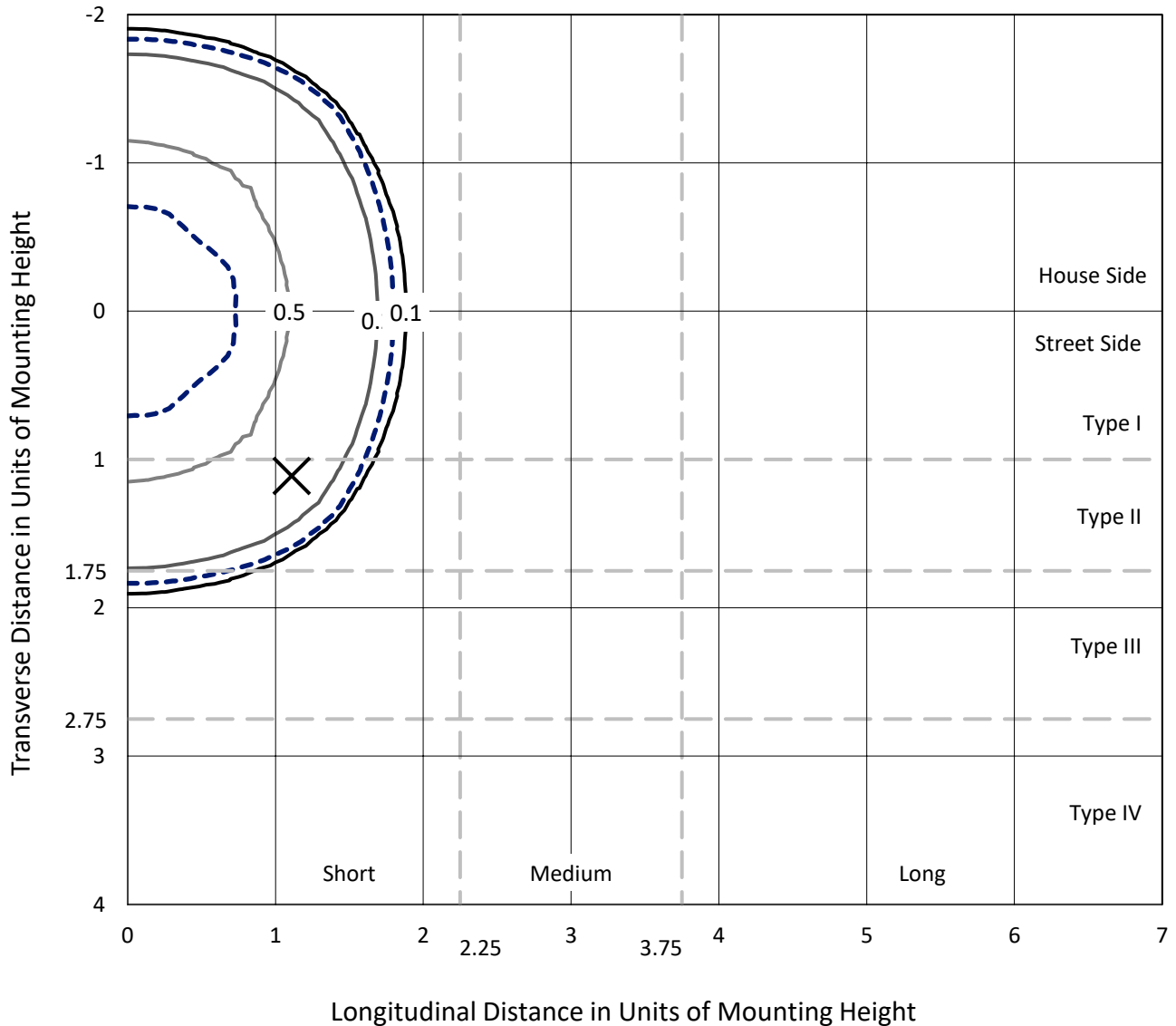
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

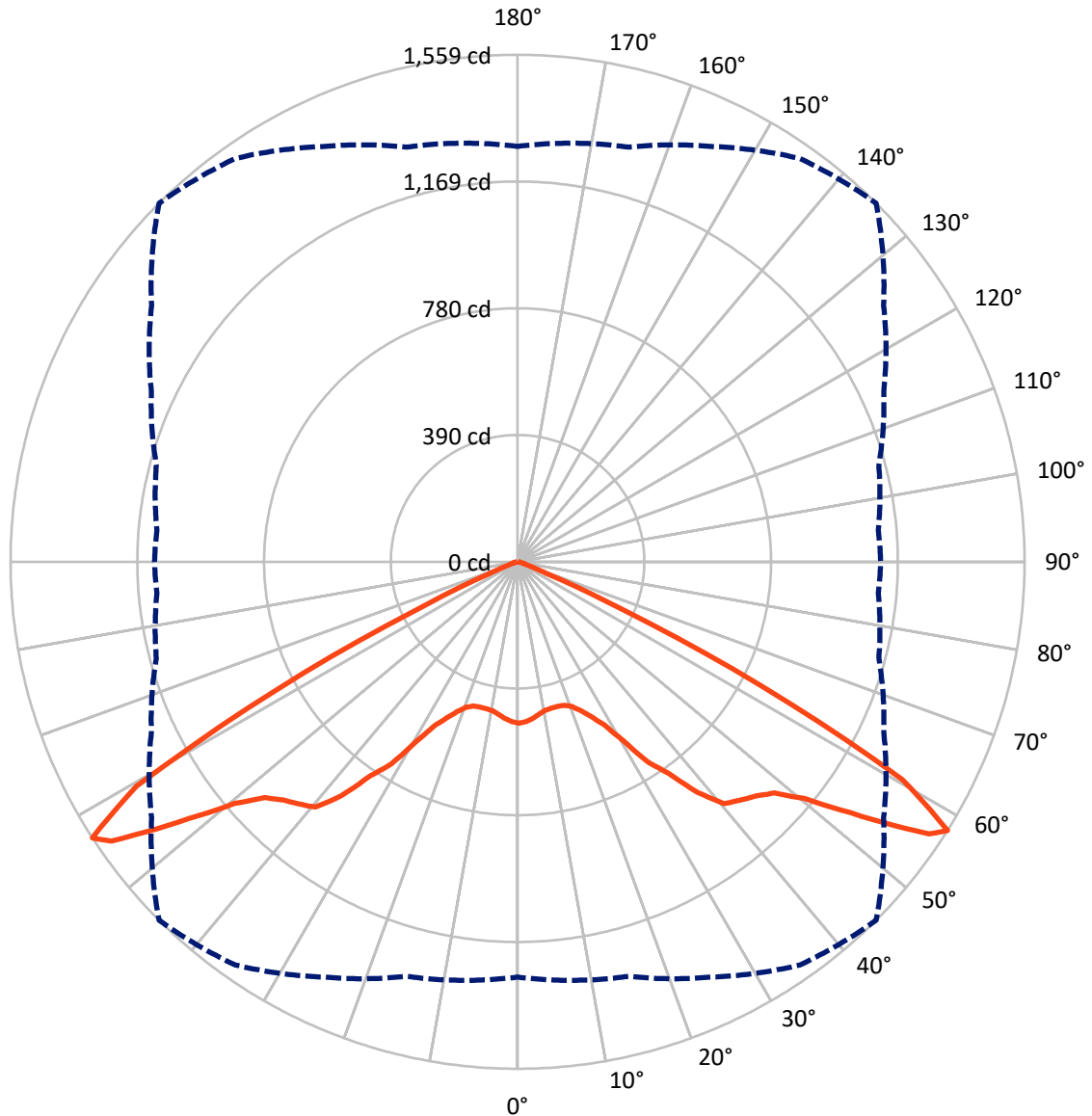
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1598.5 | 0.0 | 1598.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1598.5 | 0.0 | 1598.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3197.0 | 0.0 | 3197.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.6 | 1.4 |
| 10°-20° | 131.7 | 4.1 |
| 20°-30° | 243.1 | 7.6 |
| 30°-40° | 478.1 | 15.0 |
| 40°-50° | 778.8 | 24.4 |
| 50°-60° | 1110.6 | 34.7 |
| 60°-70° | 384.5 | 12.0 |
| 70°-80° | 20.6 | 0.6 |
| 80°-90° | 3.9 | 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° | 3197.0 | 100.0 |
| 0°-180° | 3197.0 | 100.0 |

Coefficient of Utilization

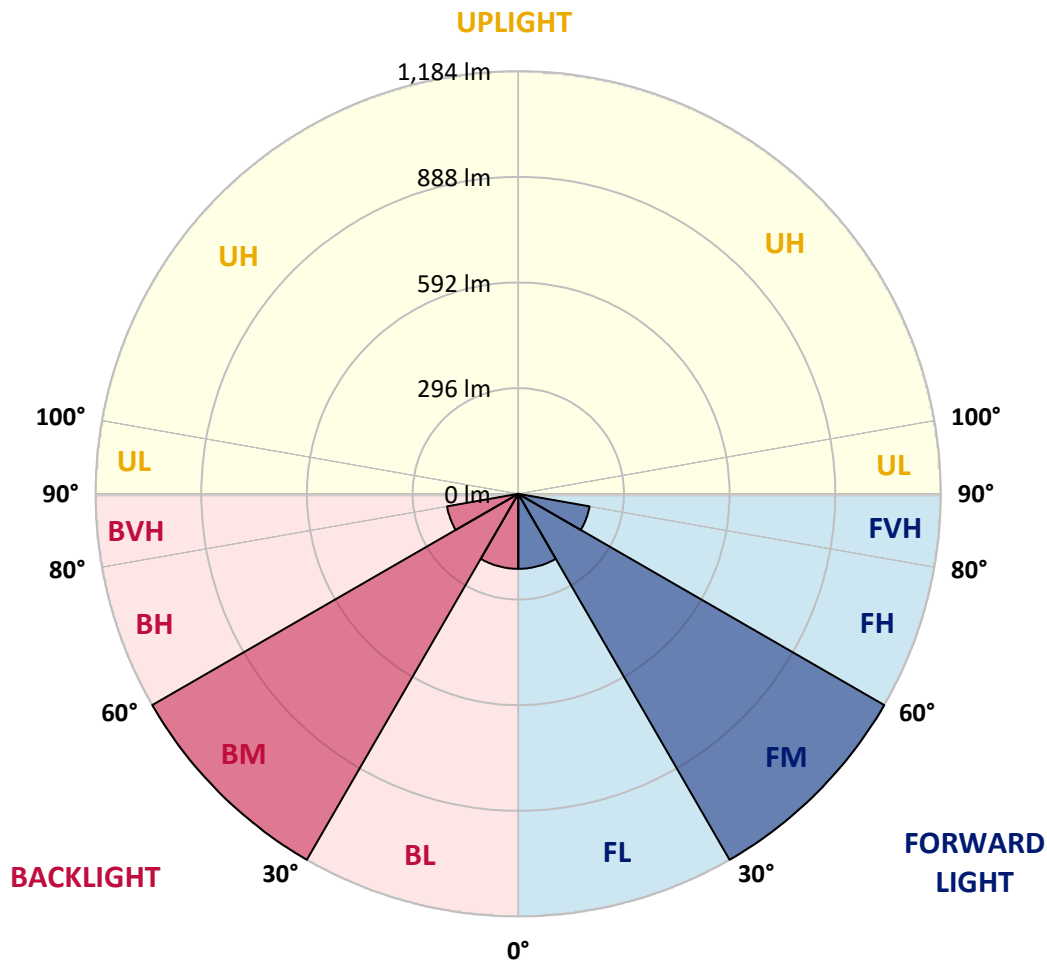


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 210.2 | 6.6 | | | |
| FM (30°-60°) | 1183.8 | 37.0 | | | |
| FH (60°-80°) | 202.6 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 1.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 210.2 | 6.6 | B1/500 | | |
| BM (30°-60°) | 1183.8 | 37.0 | B2/2500 | | |
| BH (60°-80°) | 202.6 | 6.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 1.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 | 495.9 |
| 2.5° | 494.5 | 497.2 | 493.9 | 492.6 | 491.9 | 491.9 | 489.9 | 489.9 | 489.2 | 489.9 | 487.3 |
| 5° | 486.6 | 489.2 | 489.2 | 488.6 | 484.5 | 483.9 | 481.9 | 480.5 | 481.2 | 478.6 | 480.5 |
| 7.5° | 478.6 | 480.5 | 477.9 | 477.2 | 475.9 | 473.2 | 472.5 | 466.6 | 467.2 | 467.2 | 468.5 |
| 10° | 477.2 | 476.5 | 472.5 | 469.3 | 465.3 | 464.6 | 462.6 | 461.3 | 461.3 | 460.6 | 462.6 |
| 12.5° | 477.2 | 473.9 | 473.2 | 465.9 | 459.2 | 461.9 | 456.6 | 453.2 | 457.9 | 459.2 | 461.9 |
| 15° | 476.5 | 479.9 | 468.5 | 465.3 | 460.6 | 461.3 | 456.6 | 453.2 | 455.9 | 457.2 | 459.2 |
| 17.5° | 480.5 | 478.6 | 475.2 | 468.5 | 466.6 | 463.9 | 457.9 | 455.2 | 455.2 | 458.5 | 459.2 |
| 20° | 491.3 | 485.9 | 479.2 | 475.9 | 477.9 | 474.6 | 467.2 | 457.2 | 459.9 | 462.6 | 464.6 |
| 22.5° | 501.2 | 497.2 | 492.6 | 490.5 | 501.9 | 496.6 | 483.9 | 472.5 | 468.5 | 473.2 | 476.5 |
| 25° | 520.5 | 520.5 | 511.8 | 514.6 | 527.2 | 527.9 | 513.2 | 493.2 | 490.5 | 492.6 | 493.9 |
| 27.5° | 559.8 | 561.9 | 554.5 | 557.2 | 562.5 | 567.2 | 554.5 | 537.8 | 531.9 | 531.2 | 533.2 |
| 30° | 602.5 | 606.5 | 605.9 | 617.2 | 632.5 | 635.2 | 616.5 | 589.2 | 571.2 | 567.8 | 570.6 |
| 32.5° | 658.5 | 660.5 | 659.2 | 672.5 | 713.9 | 733.2 | 684.5 | 645.8 | 621.9 | 627.9 | 621.9 |
| 35° | 763.8 | 761.9 | 747.1 | 749.8 | 783.8 | 797.8 | 751.1 | 726.5 | 715.2 | 727.2 | 724.5 |
| 37.5° | 854.5 | 847.1 | 835.1 | 852.5 | 887.8 | 900.4 | 851.8 | 808.4 | 787.9 | 807.8 | 816.5 |
| 40° | 931.1 | 912.4 | 895.8 | 913.1 | 960.4 | 977.8 | 906.5 | 871.2 | 863.1 | 877.8 | 896.5 |
| 42.5° | 995.7 | 983.8 | 961.8 | 963.1 | 994.4 | 1002.5 | 945.1 | 924.5 | 916.4 | 939.8 | 949.2 |
| 45° | 1041.8 | 1030.4 | 1009.8 | 1008.4 | 1032.5 | 1027.1 | 975.8 | 961.8 | 966.5 | 981.8 | 986.4 |
| 47.5° | 1065.1 | 1071.1 | 1059.1 | 1062.5 | 1075.1 | 1062.5 | 1021.7 | 1021.7 | 1011.1 | 1020.4 | 1015.8 |
| 50° | 1132.4 | 1113.7 | 1129.1 | 1129.1 | 1142.4 | 1143.7 | 1103.1 | 1088.4 | 1059.8 | 1043.7 | 1043.7 |
| 52.5° | 1211.1 | 1212.4 | 1218.4 | 1240.4 | 1263.1 | 1282.4 | 1224.4 | 1161.7 | 1113.7 | 1093.1 | 1090.4 |
| 55° | 1275.7 | 1289.1 | 1313.0 | 1354.4 | 1419.7 | 1446.4 | 1346.4 | 1234.4 | 1175.8 | 1143.7 | 1137.1 |
| 56° | 1311.1 | 1298.4 | 1339.7 | 1396.3 | 1481.7 | 1516.4 | 1366.3 | 1249.0 | 1184.4 | 1148.4 | 1147.7 |
| 57.5° | 1277.1 | 1291.0 | 1319.7 | 1409.0 | 1513.6 | 1559.0 | 1373.7 | 1242.4 | 1149.8 | 1113.1 | 1116.4 |
| 60° | 1008.4 | 1021.7 | 1060.4 | 1160.4 | 1324.4 | 1359.7 | 1162.4 | 1024.4 | 941.8 | 889.1 | 889.8 |
| 62.5° | 570.6 | 580.5 | 610.5 | 703.1 | 805.2 | 839.1 | 724.5 | 632.5 | 575.2 | 545.9 | 536.5 |
| 65° | 209.9 | 205.9 | 210.6 | 257.9 | 320.6 | 349.2 | 301.3 | 254.6 | 224.6 | 213.9 | 209.9 |
| 67.5° | 78.6 | 72.7 | 68.0 | 72.7 | 91.3 | 96.6 | 88.6 | 74.0 | 69.3 | 71.3 | 72.7 |
| 70° | 48.6 | 46.0 | 36.6 | 34.7 | 34.0 | 33.4 | 35.3 | 37.3 | 42.7 | 50.0 | 51.3 |
| 72.5° | 34.0 | 32.0 | 26.0 | 24.7 | 23.3 | 22.6 | 26.0 | 28.7 | 33.4 | 38.7 | 39.3 |
| 75° | 13.3 | 14.0 | 13.3 | 14.6 | 15.3 | 16.0 | 18.6 | 20.7 | 22.6 | 22.6 | 22.0 |
| 77.5° | 2.7 | 2.7 | 4.0 | 5.3 | 6.7 | 8.7 | 12.7 | 14.6 | 15.3 | 14.6 | 12.7 |
| 80° | 0.0 | 0.0 | 1.3 | 2.7 | 5.3 | 7.4 | 11.4 | 12.7 | 14.0 | 12.7 | 10.0 |
| 82.5° | 0.0 | 0.0 | 1.3 | 3.4 | 5.3 | 6.7 | 10.6 | 13.3 | 15.3 | 14.0 | 10.6 |
| 85° | 0.0 | 0.0 | 1.3 | 2.7 | 4.0 | 4.7 | 4.7 | 3.4 | 3.4 | 2.0 | 1.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 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)