

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: P647706

Luminaire Tested: **GALN-SA1A-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.2 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

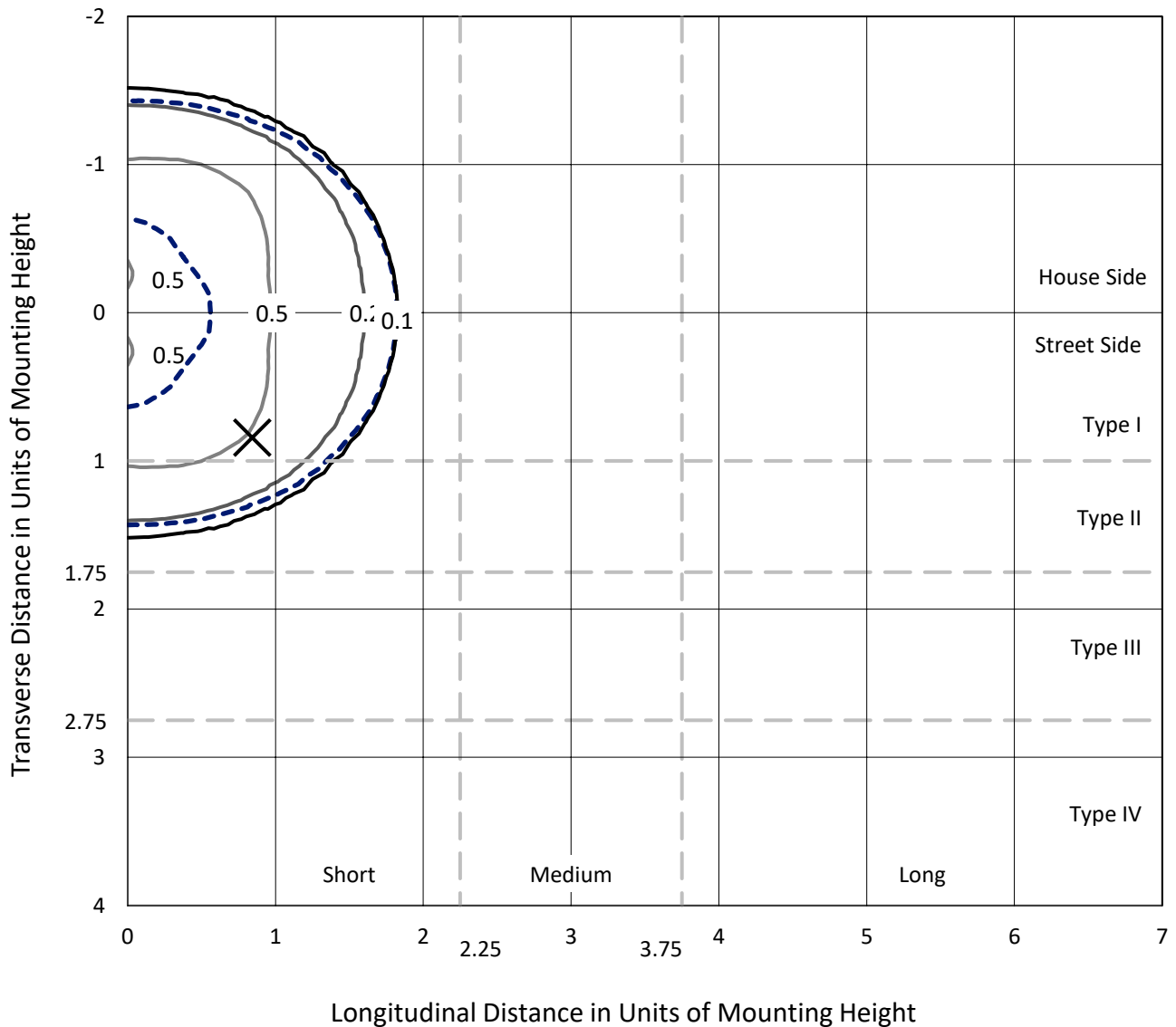
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

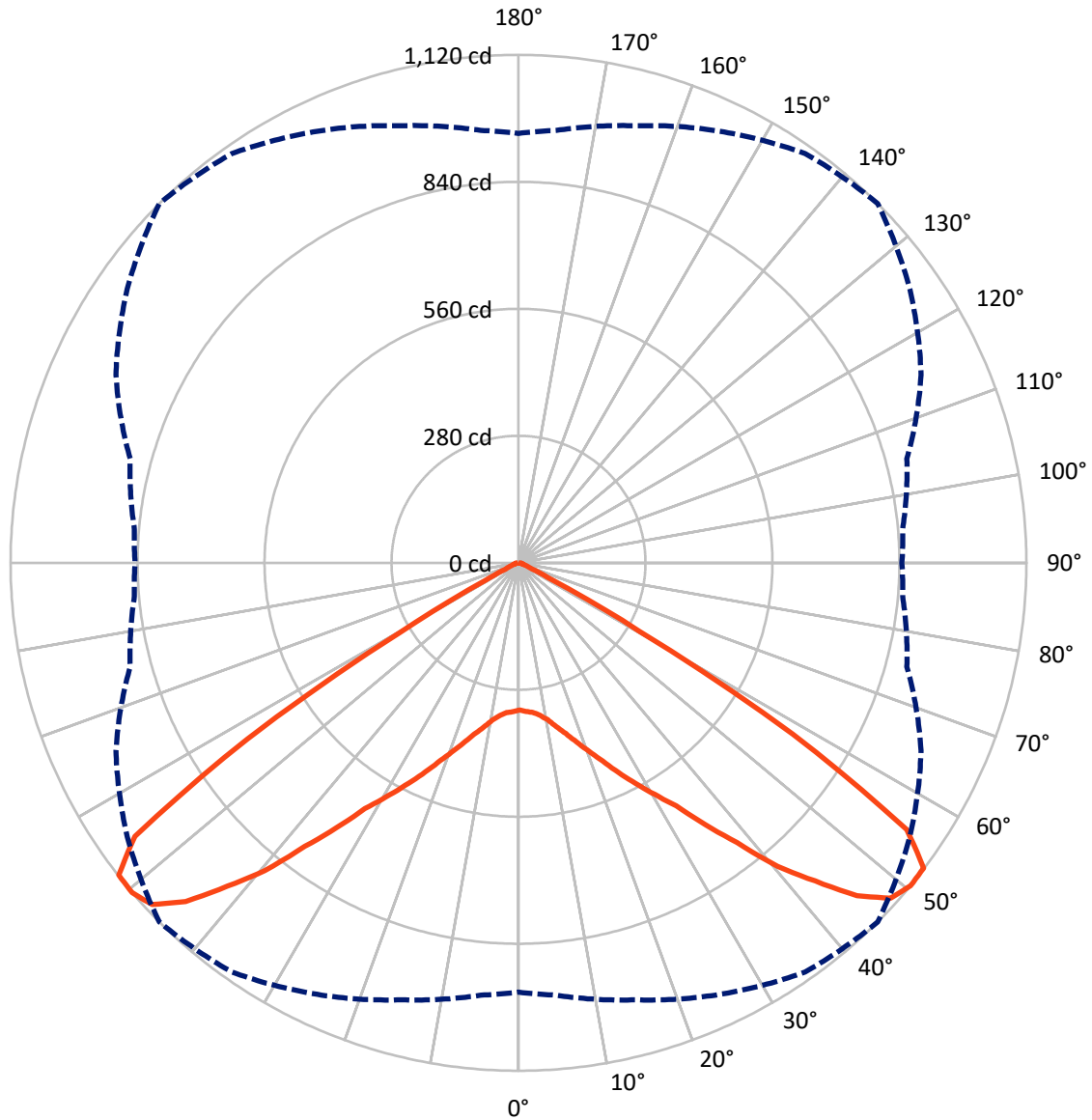
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1170.6 | 0.0 | 1170.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1170.6 | 0.0 | 1170.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2341.2 | 0.0 | 2341.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.3 | 1.4 |
| 10°-20° | 111.3 | 4.8 |
| 20°-30° | 227.3 | 9.7 |
| 30°-40° | 433.5 | 18.5 |
| 40°-50° | 730.5 | 31.2 |
| 50°-60° | 696.6 | 29.8 |
| 60°-70° | 97.2 | 4.2 |
| 70°-80° | 9.3 | 0.4 |
| 80°-90° | 3.2 | 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° | 2341.2 | 100.0 |
| 0°-180° | 2341.2 | 100.0 |

Coefficient of Utilization

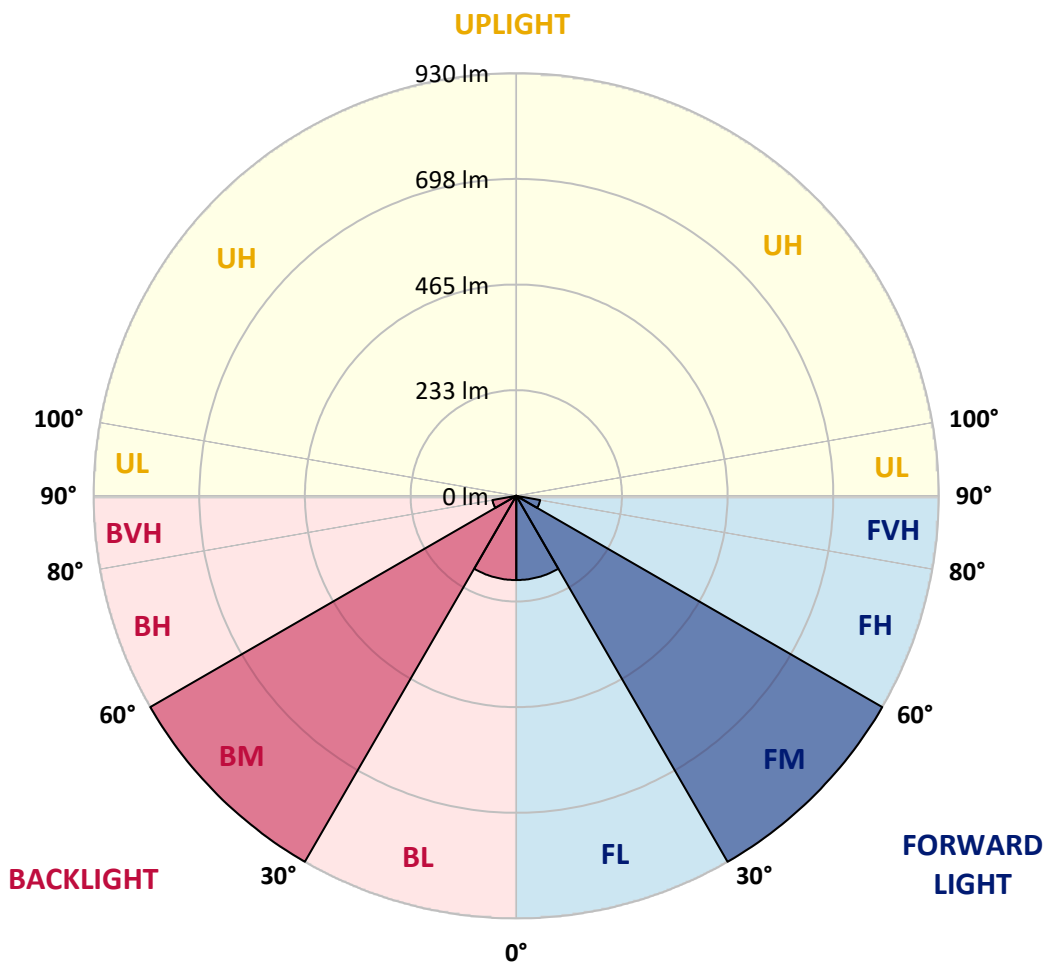


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 185.4 | 7.9 | | | |
| FM (30°-60°) | 930.3 | 39.7 | | | |
| FH (60°-80°) | 53.3 | 2.3 | | | G0/660 |
| FVH (80°-90°) | 1.6 | 0.1 | | | G0/10 |
| BL (0°-30°) | 185.4 | 7.9 | B1/500 | | |
| BM (30°-60°) | 930.3 | 39.7 | B1/1000 | | |
| BH (60°-80°) | 53.3 | 2.3 | B0/110 | | G0/660 |
| BVH (80°-90°) | 1.6 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 |
| 2.5° | 323.4 | 323.4 | 323.0 | 326.1 | 324.6 | 328.2 | 327.8 | 328.9 | 330.1 | 329.7 | 332.9 |
| 5° | 320.6 | 320.2 | 320.2 | 323.8 | 327.4 | 331.3 | 334.8 | 337.2 | 341.2 | 341.2 | 345.1 |
| 7.5° | 323.4 | 321.4 | 324.2 | 325.7 | 332.5 | 339.1 | 345.1 | 349.8 | 358.8 | 362.0 | 360.8 |
| 10° | 324.2 | 326.5 | 328.5 | 333.2 | 341.5 | 351.7 | 356.9 | 368.7 | 379.0 | 386.0 | 387.6 |
| 12.5° | 329.3 | 332.9 | 338.3 | 349.8 | 357.3 | 370.7 | 377.7 | 389.2 | 403.3 | 411.2 | 416.7 |
| 15° | 339.1 | 340.4 | 347.4 | 362.0 | 378.1 | 390.3 | 401.4 | 409.7 | 423.4 | 432.5 | 432.9 |
| 17.5° | 351.7 | 356.9 | 366.8 | 380.5 | 397.5 | 415.5 | 424.2 | 433.3 | 438.4 | 450.6 | 453.4 |
| 20° | 376.9 | 377.7 | 387.2 | 405.4 | 426.6 | 443.2 | 449.4 | 454.1 | 452.2 | 464.8 | 467.1 |
| 22.5° | 400.6 | 401.4 | 413.2 | 437.6 | 460.5 | 474.7 | 477.4 | 474.7 | 468.8 | 477.8 | 478.6 |
| 25° | 424.6 | 431.7 | 440.4 | 464.8 | 493.1 | 512.1 | 512.5 | 505.0 | 492.7 | 494.4 | 498.3 |
| 27.5° | 462.0 | 467.1 | 476.2 | 498.7 | 529.8 | 551.1 | 547.6 | 538.5 | 522.7 | 523.9 | 522.7 |
| 30° | 505.7 | 510.5 | 518.0 | 546.8 | 569.6 | 592.8 | 598.0 | 589.3 | 565.6 | 560.5 | 566.4 |
| 32.5° | 558.6 | 565.2 | 579.0 | 605.4 | 624.8 | 638.9 | 642.5 | 639.3 | 617.2 | 615.3 | 619.2 |
| 35° | 622.8 | 631.8 | 644.4 | 667.7 | 683.4 | 709.0 | 709.0 | 698.4 | 678.3 | 680.7 | 680.3 |
| 37.5° | 690.5 | 703.9 | 723.6 | 747.2 | 768.5 | 782.3 | 778.0 | 768.9 | 748.8 | 743.7 | 748.8 |
| 40° | 775.6 | 782.3 | 807.1 | 837.8 | 863.8 | 879.6 | 861.1 | 841.4 | 793.3 | 800.8 | 814.6 |
| 42.5° | 853.2 | 863.8 | 882.8 | 916.6 | 946.2 | 959.2 | 937.1 | 898.1 | 840.2 | 834.3 | 844.5 |
| 45° | 919.4 | 930.8 | 955.7 | 1004.0 | 1035.2 | 1046.6 | 997.8 | 934.7 | 868.6 | 853.6 | 857.9 |
| 47.5° | 963.5 | 969.4 | 1004.0 | 1050.2 | 1078.5 | 1104.5 | 1034.4 | 960.0 | 882.0 | 853.6 | 852.0 |
| 50° | 946.6 | 956.8 | 997.4 | 1049.8 | 1101.4 | 1119.8 | 1052.9 | 979.2 | 886.3 | 850.0 | 845.3 |
| 52.5° | 840.6 | 858.3 | 903.6 | 974.1 | 1052.1 | 1118.3 | 1078.5 | 973.0 | 884.7 | 853.6 | 860.7 |
| 55° | 585.0 | 585.4 | 640.5 | 744.5 | 882.4 | 1038.3 | 1041.1 | 980.0 | 895.0 | 875.6 | 876.0 |
| 57.5° | 235.1 | 247.0 | 289.2 | 393.5 | 520.8 | 713.0 | 847.7 | 909.1 | 896.1 | 891.4 | 903.6 |
| 60° | 59.5 | 59.9 | 72.9 | 111.1 | 183.1 | 305.7 | 444.0 | 600.7 | 691.7 | 722.8 | 727.2 |
| 62.5° | 30.3 | 30.7 | 33.9 | 39.4 | 50.0 | 81.9 | 145.7 | 231.2 | 328.9 | 378.6 | 391.6 |
| 65° | 24.8 | 24.8 | 26.8 | 29.5 | 29.9 | 31.5 | 37.8 | 53.9 | 78.4 | 89.0 | 90.2 |
| 67.5° | 18.9 | 18.9 | 20.5 | 22.1 | 22.9 | 22.5 | 21.7 | 22.5 | 27.2 | 26.0 | 25.2 |
| 70° | 11.8 | 12.2 | 13.0 | 14.6 | 15.3 | 15.7 | 16.1 | 16.9 | 19.3 | 20.1 | 19.3 |
| 72.5° | 7.1 | 7.1 | 7.5 | 8.7 | 9.9 | 10.6 | 11.8 | 12.6 | 13.8 | 15.7 | 15.3 |
| 75° | 3.1 | 3.1 | 3.9 | 5.1 | 6.3 | 7.5 | 8.7 | 9.9 | 10.6 | 11.8 | 12.2 |
| 77.5° | 0.8 | 1.2 | 2.0 | 3.5 | 4.7 | 6.3 | 7.9 | 9.1 | 9.9 | 9.9 | 9.5 |
| 80° | 0.4 | 0.4 | 1.6 | 2.7 | 5.1 | 6.7 | 8.7 | 9.5 | 10.6 | 9.9 | 8.7 |
| 82.5° | 0.4 | 0.4 | 1.6 | 2.7 | 4.7 | 6.7 | 9.1 | 10.3 | 11.0 | 9.9 | 8.3 |
| 85° | 0.0 | 0.4 | 1.2 | 2.3 | 3.9 | 4.7 | 3.9 | 2.7 | 1.6 | 1.6 | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.4 | 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)