

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: P527133

Luminaire Tested: **GALN-SA2A-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527133  
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-SA2A-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3527 lumens  
Efficiency: N/A  
Efficacy: 56.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

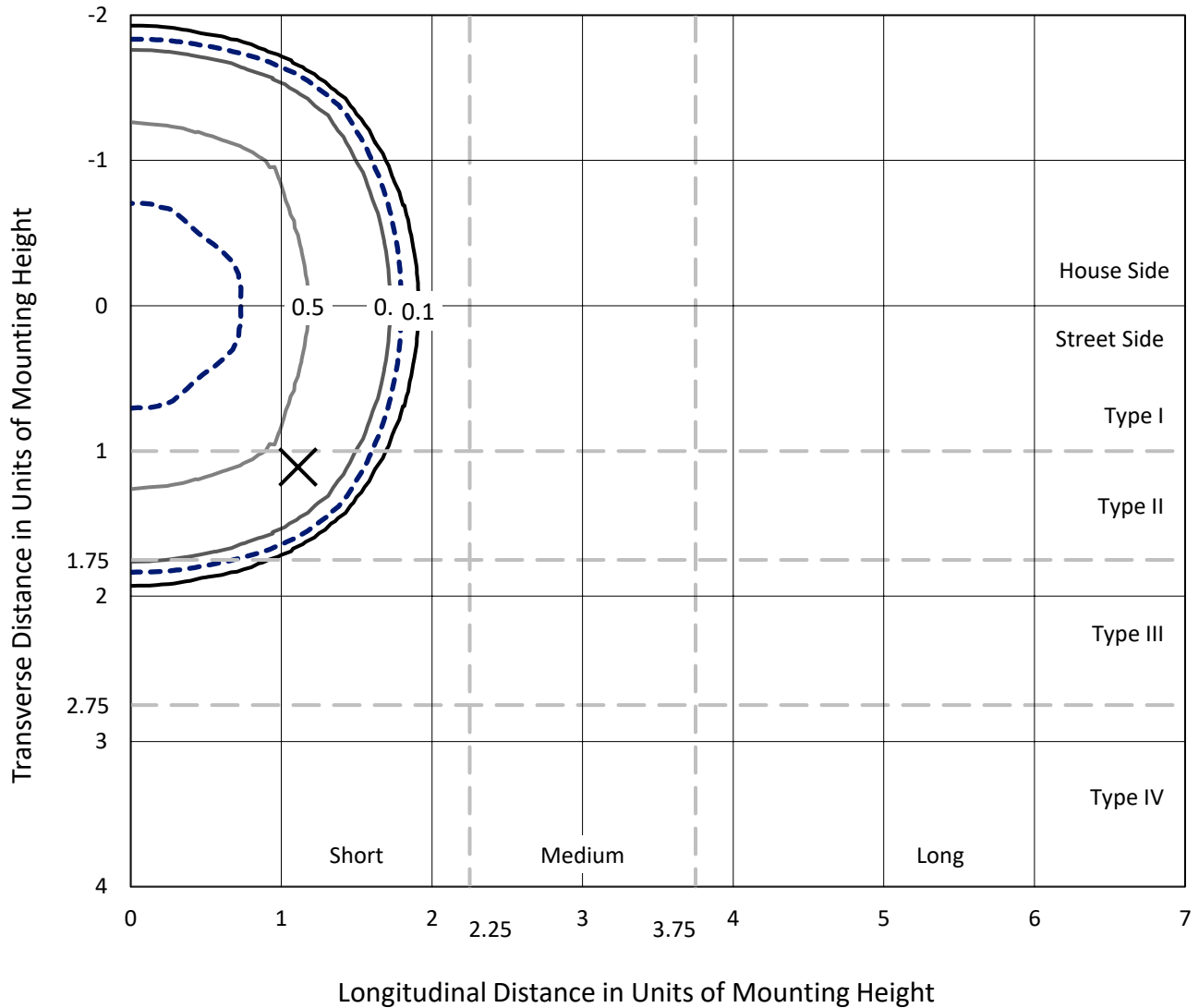
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

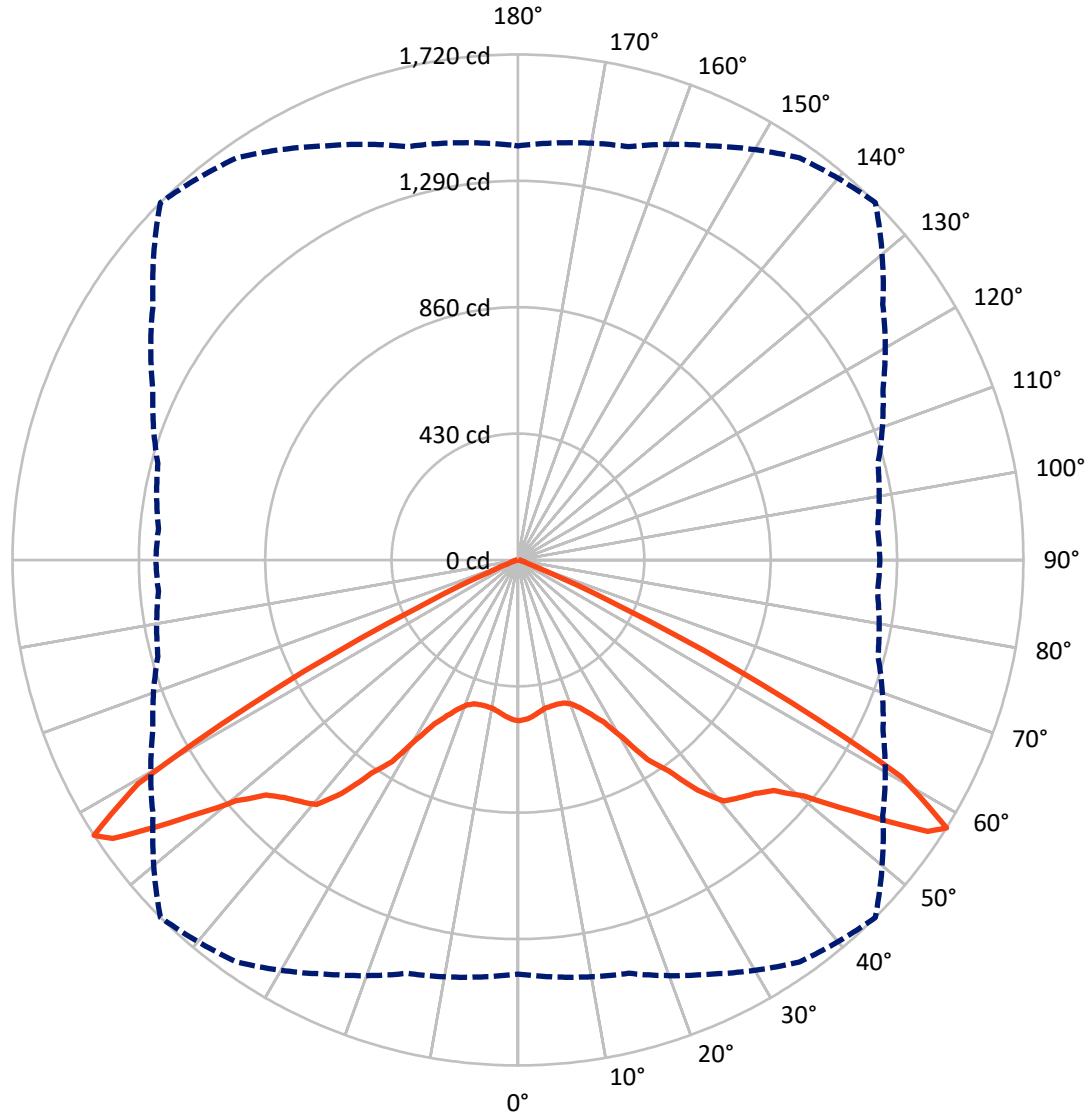
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1763.5   | 0.0    | 1763.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1763.5   | 0.0    | 1763.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3527.0   | 0.0    | 3527.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.3   | 1.4       |
| 10°-20°   | 145.3  | 4.1       |
| 20°-30°   | 268.2  | 7.6       |
| 30°-40°   | 527.5  | 15.0      |
| 40°-50°   | 859.2  | 24.4      |
| 50°-60°   | 1225.3 | 34.7      |
| 60°-70°   | 424.2  | 12.0      |
| 70°-80°   | 22.8   | 0.6       |
| 80°-90°   | 4.3    | 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°    | 3527.0 | 100.0     |
| 0°-180°   | 3527.0 | 100.0     |

**Coefficient of Utilization**



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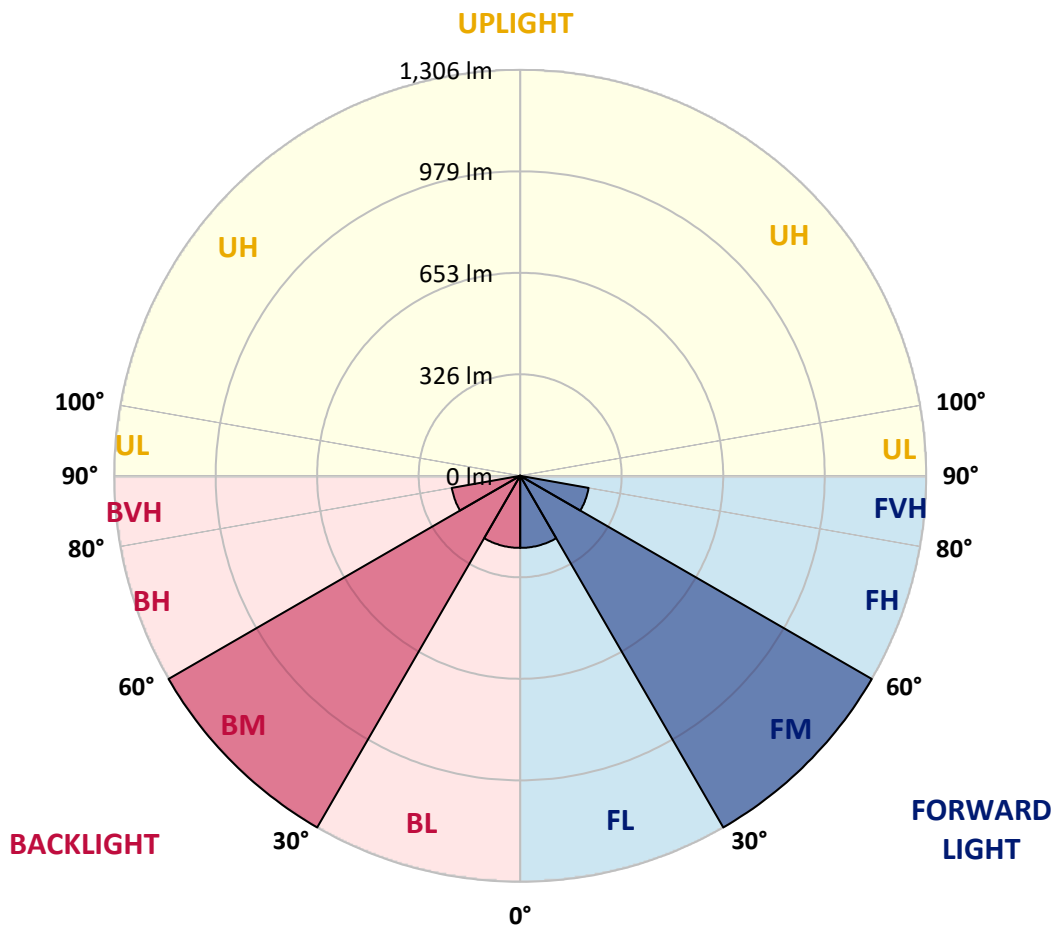
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 231.9  | 6.6       |                         |      |        |
| FM (30°-60°)   | 1306.0 | 37.0      |                         |      |        |
| FH (60°-80°)   | 223.5  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.1    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 231.9  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 1306.0 | 37.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 223.5  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 2.1    | 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°    | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  | 547.1  |
| 2.5°  | 545.6  | 548.5  | 544.9  | 543.4  | 542.7  | 542.7  | 540.5  | 540.5  | 539.7  | 540.5  | 537.5  |
| 5°    | 536.8  | 539.7  | 539.7  | 539.0  | 534.6  | 533.8  | 531.6  | 530.2  | 530.9  | 528.0  | 530.2  |
| 7.5°  | 528.0  | 530.2  | 527.2  | 526.5  | 525.0  | 522.1  | 521.3  | 514.7  | 515.5  | 515.5  | 516.9  |
| 10°   | 526.5  | 525.8  | 521.3  | 517.7  | 513.3  | 512.5  | 510.3  | 508.8  | 508.8  | 508.1  | 510.3  |
| 12.5° | 526.5  | 522.8  | 522.1  | 514.0  | 506.6  | 509.6  | 503.7  | 500.0  | 505.2  | 506.6  | 509.6  |
| 15°   | 525.8  | 529.4  | 516.9  | 513.3  | 508.1  | 508.8  | 503.7  | 500.0  | 503.0  | 504.4  | 506.6  |
| 17.5° | 530.2  | 528.0  | 524.3  | 516.9  | 514.7  | 511.8  | 505.2  | 502.2  | 502.2  | 505.9  | 506.6  |
| 20°   | 541.9  | 536.0  | 528.7  | 525.0  | 527.2  | 523.5  | 515.5  | 504.4  | 507.4  | 510.3  | 512.5  |
| 22.5° | 553.0  | 548.5  | 543.4  | 541.2  | 553.7  | 547.8  | 533.8  | 521.3  | 516.9  | 522.1  | 525.8  |
| 25°   | 574.3  | 574.3  | 564.7  | 567.7  | 581.6  | 582.4  | 566.2  | 544.1  | 541.2  | 543.4  | 544.9  |
| 27.5° | 617.7  | 619.9  | 611.8  | 614.7  | 620.6  | 625.8  | 611.8  | 593.4  | 586.8  | 586.0  | 588.3  |
| 30°   | 664.7  | 669.1  | 668.4  | 680.9  | 697.8  | 700.8  | 680.2  | 650.0  | 630.2  | 626.5  | 629.4  |
| 32.5° | 726.5  | 728.7  | 727.2  | 741.9  | 787.5  | 808.8  | 755.2  | 712.5  | 686.0  | 692.7  | 686.0  |
| 35°   | 842.7  | 840.5  | 824.3  | 827.2  | 864.7  | 880.2  | 828.7  | 801.5  | 789.0  | 802.2  | 799.3  |
| 37.5° | 942.7  | 934.6  | 921.4  | 940.5  | 979.4  | 993.4  | 939.7  | 891.9  | 869.1  | 891.2  | 900.8  |
| 40°   | 1027.2 | 1006.6 | 988.3  | 1007.4 | 1059.6 | 1078.7 | 1000.0 | 961.1  | 952.2  | 968.4  | 989.0  |
| 42.5° | 1098.6 | 1085.3 | 1061.1 | 1062.5 | 1097.1 | 1105.9 | 1042.7 | 1019.9 | 1011.1 | 1036.8 | 1047.1 |
| 45°   | 1149.3 | 1136.8 | 1114.0 | 1112.5 | 1139.0 | 1133.1 | 1076.5 | 1061.1 | 1066.2 | 1083.1 | 1088.3 |
| 47.5° | 1175.0 | 1181.7 | 1168.4 | 1172.1 | 1186.1 | 1172.1 | 1127.2 | 1127.2 | 1115.5 | 1125.8 | 1120.6 |
| 50°   | 1249.3 | 1228.7 | 1245.6 | 1245.6 | 1260.3 | 1261.8 | 1216.9 | 1200.8 | 1169.2 | 1151.5 | 1151.5 |
| 52.5° | 1336.1 | 1337.5 | 1344.2 | 1368.4 | 1393.4 | 1414.7 | 1350.8 | 1281.7 | 1228.7 | 1205.9 | 1203.0 |
| 55°   | 1407.4 | 1422.1 | 1448.6 | 1494.2 | 1566.2 | 1595.6 | 1485.3 | 1361.8 | 1297.1 | 1261.8 | 1254.4 |
| 56°   | 1446.4 | 1432.4 | 1478.0 | 1540.5 | 1634.6 | 1672.8 | 1507.4 | 1378.0 | 1306.7 | 1266.9 | 1266.2 |
| 57.5° | 1408.9 | 1424.3 | 1455.9 | 1554.5 | 1669.9 | 1719.9 | 1515.5 | 1370.6 | 1268.4 | 1228.0 | 1231.7 |
| 60°   | 1112.5 | 1127.2 | 1169.9 | 1280.2 | 1461.1 | 1500.0 | 1282.4 | 1130.2 | 1039.0 | 980.9  | 981.6  |
| 62.5° | 629.4  | 640.5  | 673.5  | 775.8  | 888.3  | 925.8  | 799.3  | 697.8  | 634.6  | 602.2  | 591.9  |
| 65°   | 231.6  | 227.2  | 232.4  | 284.6  | 353.7  | 385.3  | 332.4  | 280.9  | 247.8  | 236.0  | 231.6  |
| 67.5° | 86.8   | 80.1   | 75.0   | 80.1   | 100.7  | 106.6  | 97.8   | 81.6   | 76.5   | 78.7   | 80.1   |
| 70°   | 53.7   | 50.7   | 40.4   | 38.2   | 37.5   | 36.8   | 39.0   | 41.2   | 47.1   | 55.1   | 56.6   |
| 72.5° | 37.5   | 35.3   | 28.7   | 27.2   | 25.7   | 25.0   | 28.7   | 31.6   | 36.8   | 42.6   | 43.4   |
| 75°   | 14.7   | 15.4   | 14.7   | 16.2   | 16.9   | 17.6   | 20.6   | 22.8   | 25.0   | 25.0   | 24.3   |
| 77.5° | 2.9    | 2.9    | 4.4    | 5.9    | 7.4    | 9.6    | 14.0   | 16.2   | 16.9   | 16.2   | 14.0   |
| 80°   | 0.0    | 0.0    | 1.5    | 2.9    | 5.9    | 8.1    | 12.5   | 14.0   | 15.4   | 14.0   | 11.0   |
| 82.5° | 0.0    | 0.0    | 1.5    | 3.7    | 5.9    | 7.4    | 11.8   | 14.7   | 16.9   | 15.4   | 11.8   |
| 85°   | 0.0    | 0.0    | 1.5    | 2.9    | 4.4    | 5.1    | 5.1    | 3.7    | 3.7    | 2.2    | 1.5    |
| 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)