

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: P526639

Luminaire Tested: **GALN-SA1C-760-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526639  
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-SA1C-760-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1050mA 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: 3711 lumens  
Efficiency: N/A  
Efficacy: 65.1 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

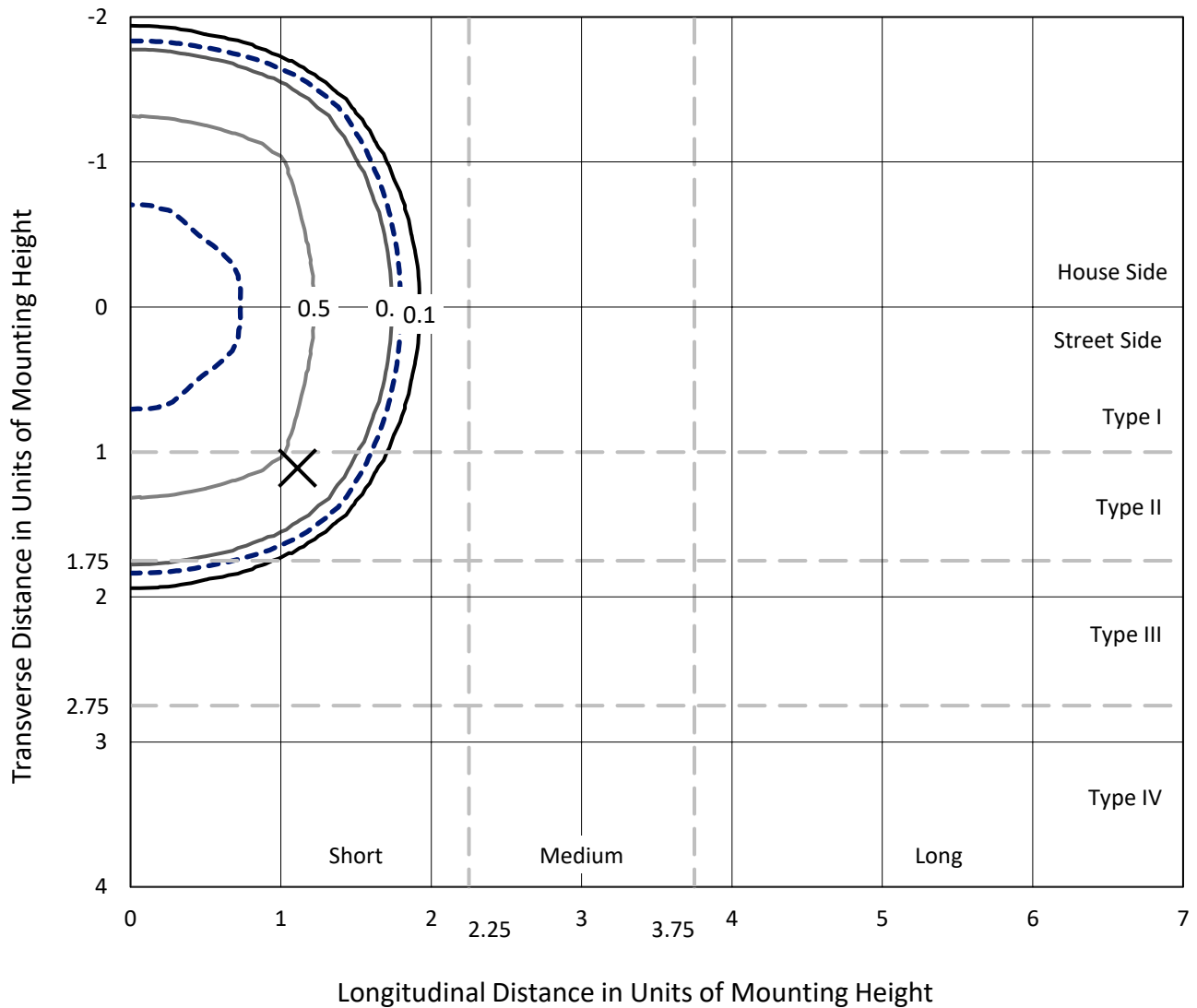
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

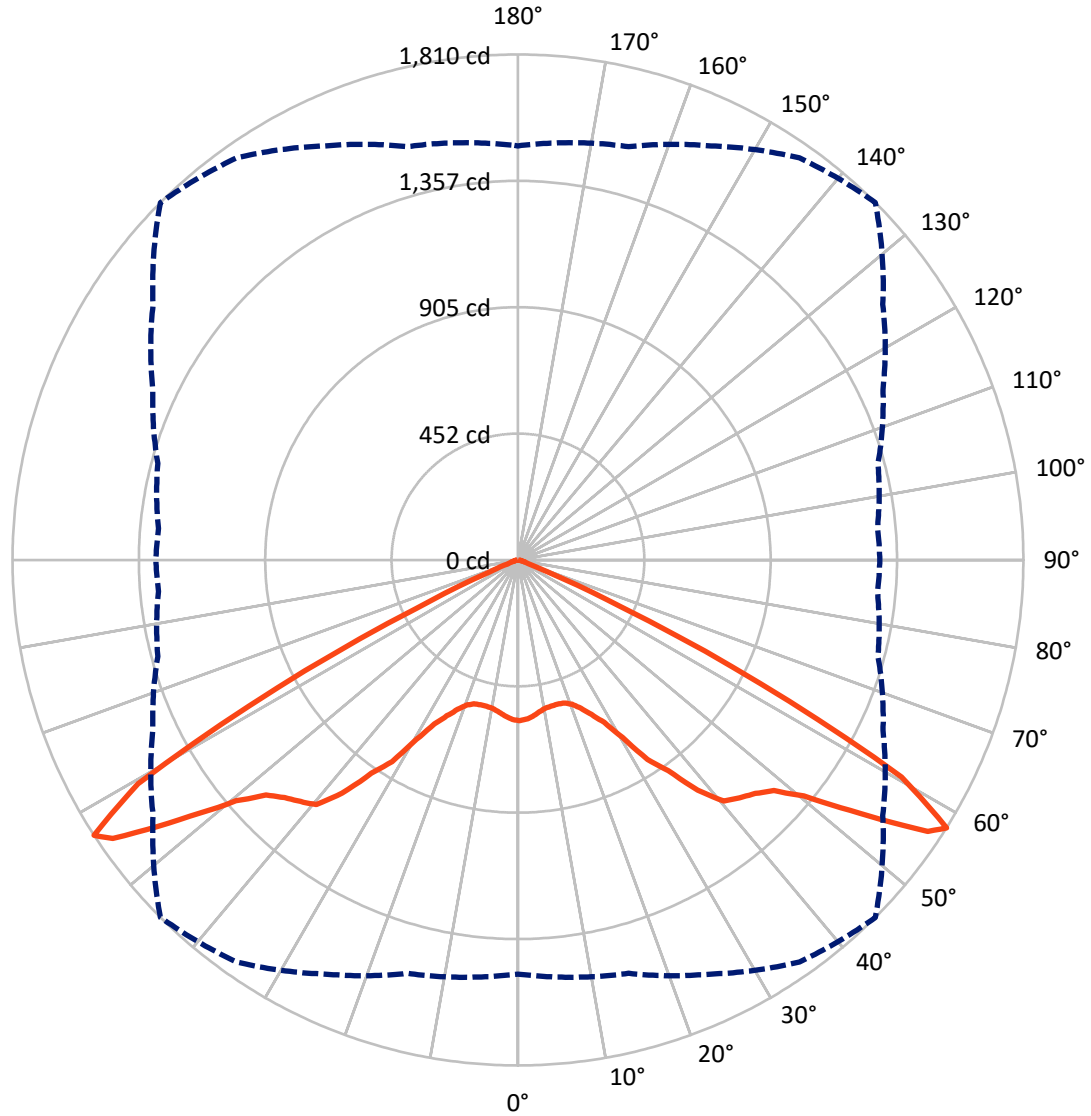
× Max cd  
 - - - 1/2 Max cd



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    | 1855.5   | 0.0    | 1855.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1855.5   | 0.0    | 1855.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 3711.0   | 0.0    | 3711.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.9   | 1.4       |
| 10°-20°   | 152.9  | 4.1       |
| 20°-30°   | 282.2  | 7.6       |
| 30°-40°   | 555.0  | 15.0      |
| 40°-50°   | 904.0  | 24.4      |
| 50°-60°   | 1289.2 | 34.7      |
| 60°-70°   | 446.3  | 12.0      |
| 70°-80°   | 23.9   | 0.6       |
| 80°-90°   | 4.5    | 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°    | 3711.0 | 100.0     |
| 0°-180°   | 3711.0 | 100.0     |

**Coefficient of Utilization**



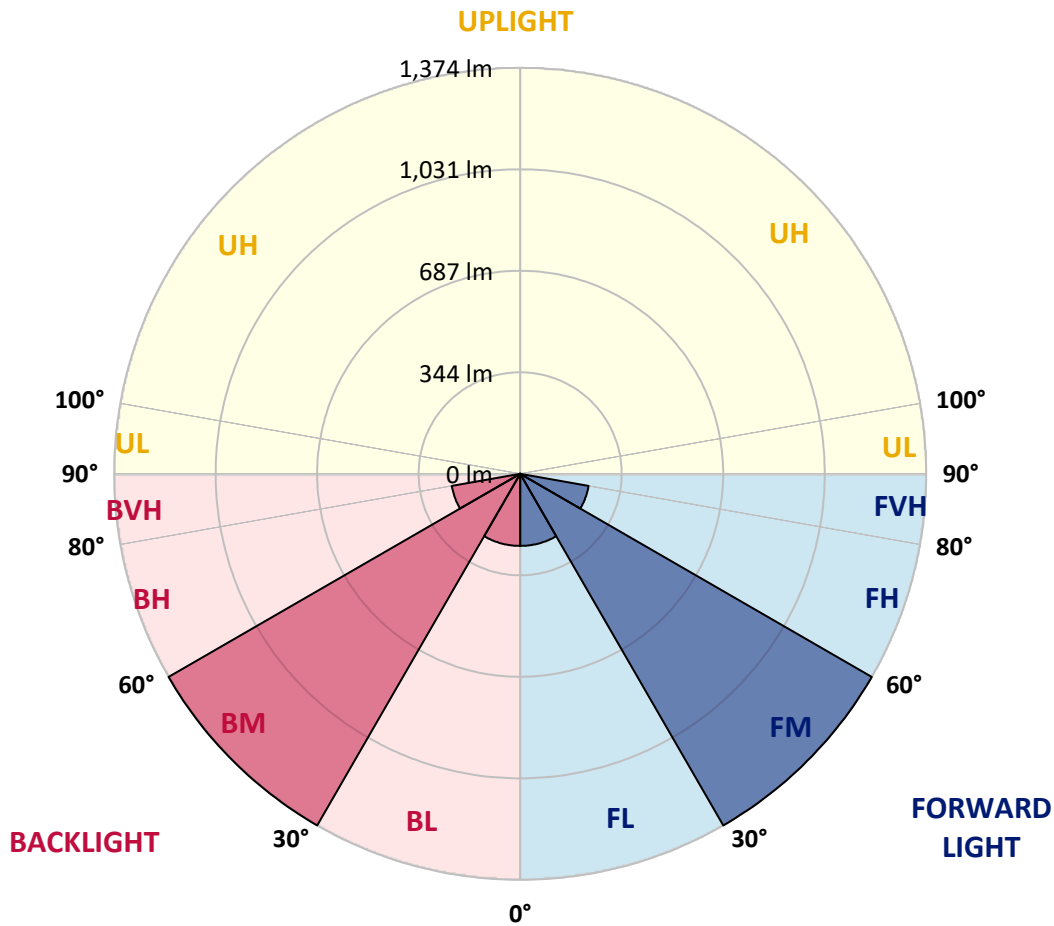
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 244.0  | 6.6       |                         |      |        |
| FM (30°-60°)   | 1374.1 | 37.0      |                         |      |        |
| FH (60°-80°)   | 235.1  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.2    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 244.0  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 1374.1 | 37.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 235.1  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 2.2    | 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°    | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  | 575.6  |
| 2.5°  | 574.1  | 577.2  | 573.3  | 571.7  | 571.0  | 571.0  | 568.7  | 568.7  | 567.9  | 568.7  | 565.6  |
| 5°    | 564.8  | 567.9  | 567.9  | 567.1  | 562.5  | 561.7  | 559.4  | 557.8  | 558.6  | 555.5  | 557.8  |
| 7.5°  | 555.5  | 557.8  | 554.7  | 554.0  | 552.4  | 549.3  | 548.5  | 541.6  | 542.3  | 542.3  | 543.9  |
| 10°   | 554.0  | 553.2  | 548.5  | 544.7  | 540.0  | 539.3  | 536.9  | 535.4  | 535.4  | 534.6  | 536.9  |
| 12.5° | 554.0  | 550.1  | 549.3  | 540.8  | 533.1  | 536.2  | 530.0  | 526.1  | 531.5  | 533.1  | 536.2  |
| 15°   | 553.2  | 557.0  | 543.9  | 540.0  | 534.6  | 535.4  | 530.0  | 526.1  | 529.2  | 530.7  | 533.1  |
| 17.5° | 557.8  | 555.5  | 551.6  | 543.9  | 541.6  | 538.5  | 531.5  | 528.4  | 528.4  | 532.3  | 533.1  |
| 20°   | 570.2  | 564.0  | 556.3  | 552.4  | 554.7  | 550.9  | 542.3  | 530.7  | 533.8  | 536.9  | 539.3  |
| 22.5° | 581.8  | 577.2  | 571.7  | 569.4  | 582.6  | 576.4  | 561.7  | 548.5  | 543.9  | 549.3  | 553.2  |
| 25°   | 604.2  | 604.2  | 594.2  | 597.3  | 612.0  | 612.8  | 595.7  | 572.5  | 569.4  | 571.7  | 573.3  |
| 27.5° | 649.9  | 652.2  | 643.7  | 646.8  | 653.0  | 658.4  | 643.7  | 624.4  | 617.4  | 616.6  | 618.9  |
| 30°   | 699.4  | 704.0  | 703.3  | 716.4  | 734.2  | 737.3  | 715.7  | 683.9  | 663.0  | 659.2  | 662.3  |
| 32.5° | 764.4  | 766.7  | 765.2  | 780.6  | 828.6  | 851.0  | 794.6  | 749.7  | 721.8  | 728.8  | 721.8  |
| 35°   | 886.6  | 884.3  | 867.3  | 870.4  | 909.8  | 926.1  | 871.9  | 843.3  | 830.2  | 844.1  | 841.0  |
| 37.5° | 991.9  | 983.3  | 969.4  | 989.5  | 1030.5 | 1045.2 | 988.8  | 938.5  | 914.5  | 937.7  | 947.8  |
| 40°   | 1080.8 | 1059.2 | 1039.8 | 1059.9 | 1114.9 | 1135.0 | 1052.2 | 1011.2 | 1001.9 | 1018.9 | 1040.6 |
| 42.5° | 1155.9 | 1141.9 | 1116.4 | 1118.0 | 1154.3 | 1163.6 | 1097.1 | 1073.1 | 1063.8 | 1090.9 | 1101.7 |
| 45°   | 1209.3 | 1196.1 | 1172.1 | 1170.6 | 1198.4 | 1192.2 | 1132.7 | 1116.4 | 1121.8 | 1139.6 | 1145.0 |
| 47.5° | 1236.3 | 1243.3 | 1229.4 | 1233.2 | 1247.9 | 1233.2 | 1186.0 | 1186.0 | 1173.7 | 1184.5 | 1179.1 |
| 50°   | 1314.5 | 1292.8 | 1310.6 | 1310.6 | 1326.1 | 1327.6 | 1280.4 | 1263.4 | 1230.1 | 1211.6 | 1211.6 |
| 52.5° | 1405.8 | 1407.3 | 1414.3 | 1439.8 | 1466.1 | 1488.6 | 1421.2 | 1348.5 | 1292.8 | 1268.8 | 1265.7 |
| 55°   | 1480.8 | 1496.3 | 1524.1 | 1572.1 | 1647.9 | 1678.9 | 1562.8 | 1432.8 | 1364.8 | 1327.6 | 1319.9 |
| 56°   | 1521.8 | 1507.1 | 1555.1 | 1620.9 | 1719.9 | 1760.1 | 1586.0 | 1449.9 | 1374.8 | 1333.0 | 1332.3 |
| 57.5° | 1482.4 | 1498.6 | 1531.9 | 1635.6 | 1757.0 | 1809.6 | 1594.5 | 1442.1 | 1334.6 | 1292.0 | 1295.9 |
| 60°   | 1170.6 | 1186.0 | 1230.9 | 1347.0 | 1537.3 | 1578.3 | 1349.3 | 1189.1 | 1093.2 | 1032.1 | 1032.9 |
| 62.5° | 662.3  | 673.9  | 708.7  | 816.2  | 934.6  | 974.1  | 841.0  | 734.2  | 667.7  | 633.6  | 622.8  |
| 65°   | 243.7  | 239.1  | 244.5  | 299.4  | 372.1  | 405.4  | 349.7  | 295.5  | 260.7  | 248.4  | 243.7  |
| 67.5° | 91.3   | 84.3   | 78.9   | 84.3   | 106.0  | 112.2  | 102.9  | 85.9   | 80.5   | 82.8   | 84.3   |
| 70°   | 56.5   | 53.4   | 42.6   | 40.2   | 39.5   | 38.7   | 41.0   | 43.3   | 49.5   | 58.0   | 59.6   |
| 72.5° | 39.5   | 37.1   | 30.2   | 28.6   | 27.1   | 26.3   | 30.2   | 33.3   | 38.7   | 44.9   | 45.6   |
| 75°   | 15.5   | 16.2   | 15.5   | 17.0   | 17.8   | 18.6   | 21.7   | 24.0   | 26.3   | 26.3   | 25.5   |
| 77.5° | 3.1    | 3.1    | 4.6    | 6.2    | 7.7    | 10.1   | 14.7   | 17.0   | 17.8   | 17.0   | 14.7   |
| 80°   | 0.0    | 0.0    | 1.5    | 3.1    | 6.2    | 8.5    | 13.2   | 14.7   | 16.2   | 14.7   | 11.6   |
| 82.5° | 0.0    | 0.0    | 1.5    | 3.9    | 6.2    | 7.7    | 12.4   | 15.5   | 17.8   | 16.2   | 12.4   |
| 85°   | 0.0    | 0.0    | 1.5    | 3.1    | 4.6    | 5.4    | 5.4    | 3.9    | 3.9    | 2.3    | 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)