

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: P944956

Luminaire Tested: **GALN-SB1A-760-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-760-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4972 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

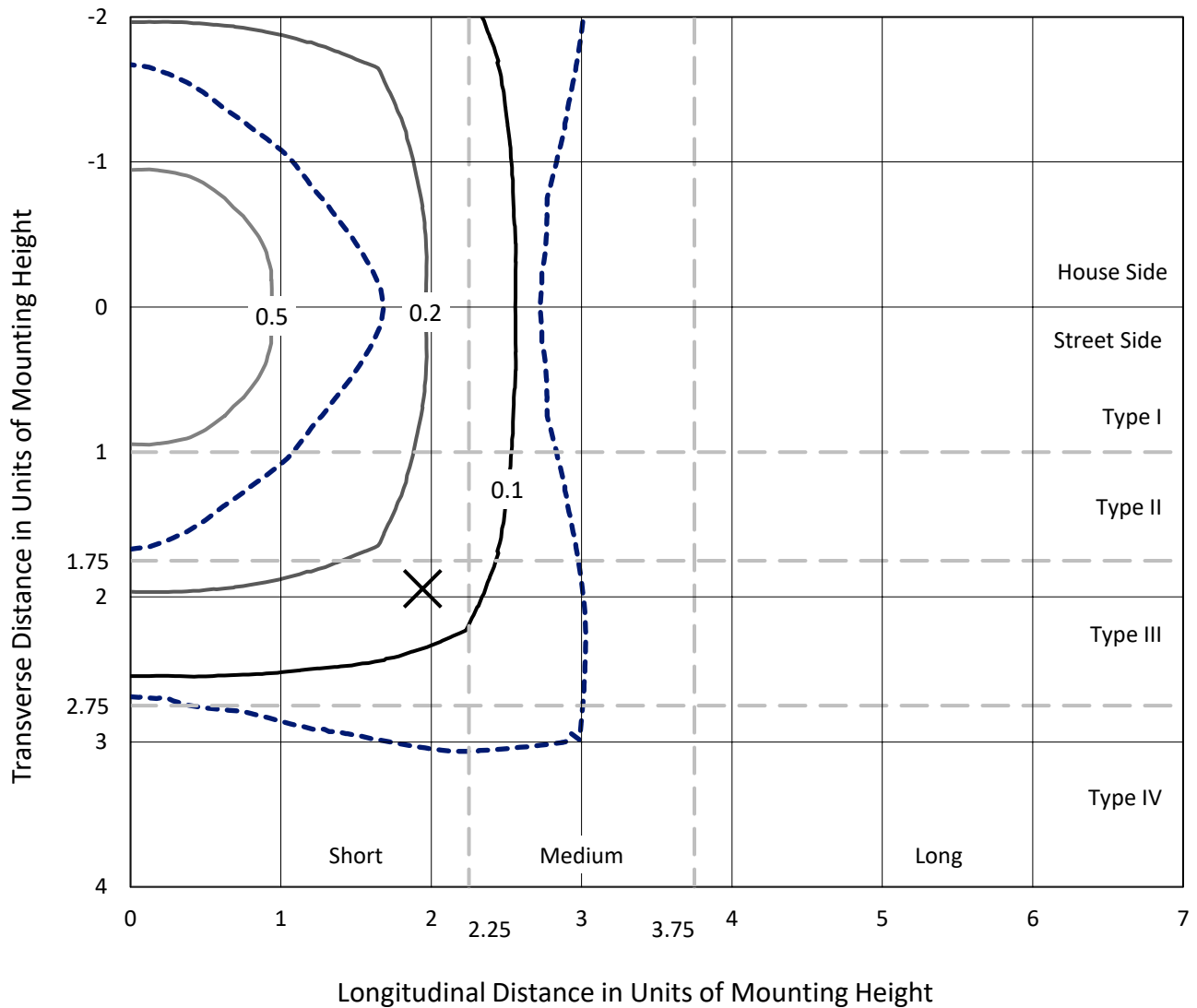
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

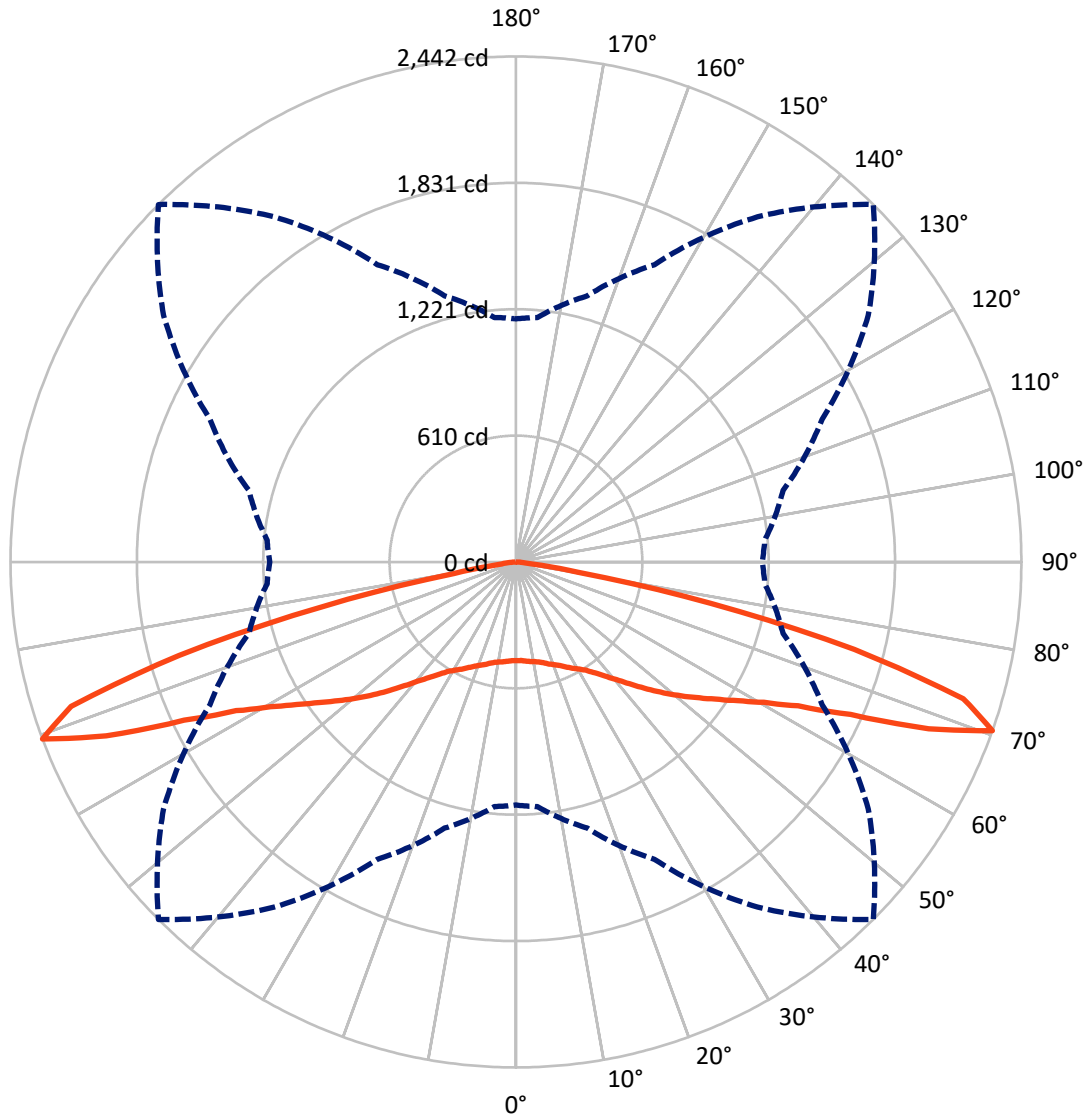
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2486.0 | 0.0 | 2486.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2486.0 | 0.0 | 2486.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4972.0 | 0.0 | 4972.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.3 | 0.9 |
| 10°-20° | 143.5 | 2.9 |
| 20°-30° | 256.4 | 5.2 |
| 30°-40° | 415.6 | 8.4 |
| 40°-50° | 677.0 | 13.6 |
| 50°-60° | 1032.2 | 20.8 |
| 60°-70° | 1535.6 | 30.9 |
| 70°-80° | 836.9 | 16.8 |
| 80°-90° | 28.5 | 0.6 |
| 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° | 4972.0 | 100.0 |
| 0°-180° | 4972.0 | 100.0 |

Coefficient of Utilization



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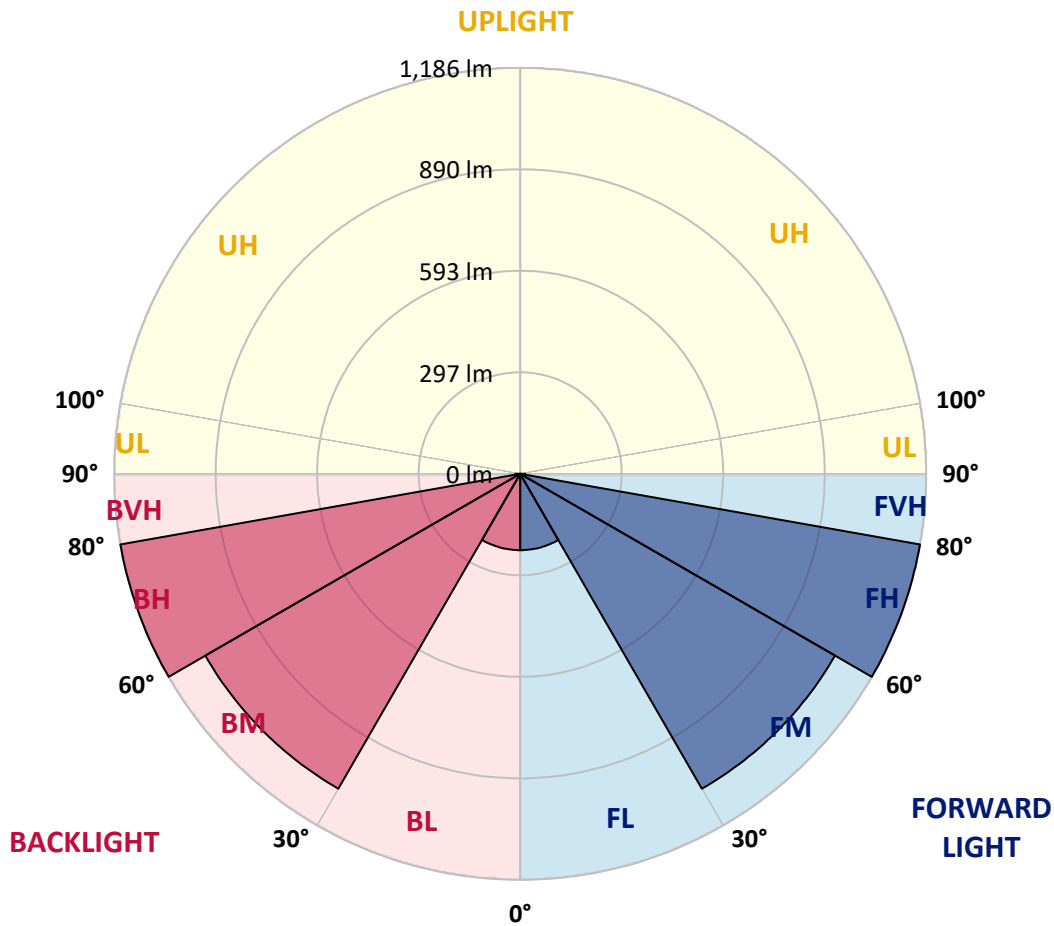
CATALOG NUMBER: GALN-SB1A-760-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 223.1 | 4.5 | | | |
| FM (30°-60°) | 1062.4 | 21.4 | | | |
| FH (60°-80°) | 1186.3 | 23.9 | | | G1/1800 |
| FVH (80°-90°) | 14.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 223.1 | 4.5 | B1/500 | | |
| BM (30°-60°) | 1062.4 | 21.4 | B2/2500 | | |
| BH (60°-80°) | 1186.3 | 23.9 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 14.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 476.3 | 476.3 | 476.3 | 476.3 | 476.3 | 476.3 | 476.3 | 476.3 | 476.3 | 476.3 |
| 2.5° | 478.5 | 479.0 | 478.0 | 477.5 | 477.0 | 476.3 | 476.5 | 477.8 | 478.8 | 478.5 |
| 5° | 482.5 | 483.0 | 482.3 | 482.0 | 481.0 | 480.8 | 480.8 | 482.0 | 482.8 | 482.3 |
| 7.5° | 487.0 | 487.7 | 486.5 | 486.3 | 485.8 | 485.3 | 485.0 | 486.3 | 487.0 | 487.0 |
| 10° | 491.2 | 492.0 | 491.0 | 490.2 | 489.7 | 489.7 | 489.2 | 490.2 | 491.5 | 491.2 |
| 12.5° | 495.7 | 496.2 | 495.2 | 494.7 | 494.7 | 495.5 | 494.7 | 495.2 | 496.2 | 495.7 |
| 15° | 501.2 | 501.5 | 501.2 | 502.0 | 503.2 | 505.7 | 503.5 | 503.0 | 503.5 | 502.2 |
| 17.5° | 508.7 | 509.2 | 510.2 | 512.0 | 513.7 | 518.2 | 514.2 | 513.0 | 513.0 | 510.5 |
| 20° | 518.0 | 518.7 | 520.2 | 523.2 | 525.4 | 529.7 | 525.7 | 523.9 | 523.2 | 519.9 |
| 22.5° | 527.7 | 528.9 | 531.2 | 535.2 | 539.2 | 543.2 | 539.2 | 536.2 | 533.9 | 529.7 |
| 25° | 538.9 | 540.4 | 543.9 | 550.4 | 555.9 | 561.6 | 556.9 | 550.9 | 546.4 | 540.4 |
| 27.5° | 554.9 | 556.6 | 560.9 | 568.9 | 575.9 | 580.9 | 576.4 | 568.6 | 562.4 | 555.1 |
| 30° | 577.4 | 579.1 | 584.1 | 592.6 | 597.3 | 600.6 | 597.6 | 591.6 | 584.1 | 575.9 |
| 32.5° | 606.3 | 608.6 | 614.1 | 622.0 | 623.0 | 623.5 | 622.5 | 619.5 | 614.1 | 604.1 |
| 35° | 643.0 | 645.5 | 651.7 | 658.2 | 657.2 | 658.2 | 656.7 | 655.7 | 651.7 | 640.3 |
| 37.5° | 687.9 | 690.9 | 697.4 | 702.4 | 699.9 | 698.7 | 698.9 | 699.2 | 696.9 | 684.2 |
| 40° | 740.1 | 744.1 | 748.8 | 754.1 | 749.8 | 746.1 | 748.6 | 750.6 | 748.6 | 735.6 |
| 42.5° | 793.8 | 799.5 | 804.5 | 812.0 | 808.5 | 803.8 | 807.3 | 809.5 | 805.3 | 791.3 |
| 45° | 853.4 | 858.9 | 865.4 | 876.6 | 874.2 | 869.2 | 874.2 | 874.7 | 867.4 | 850.9 |
| 47.5° | 915.1 | 920.8 | 930.6 | 945.5 | 944.5 | 939.1 | 945.5 | 942.0 | 932.8 | 913.1 |
| 50° | 973.5 | 981.5 | 996.5 | 1017.4 | 1019.4 | 1012.7 | 1021.4 | 1014.7 | 999.2 | 974.5 |
| 52.5° | 1028.4 | 1036.9 | 1060.6 | 1089.1 | 1096.3 | 1087.6 | 1099.3 | 1087.6 | 1064.4 | 1032.7 |
| 55° | 1086.1 | 1095.6 | 1123.8 | 1161.0 | 1175.4 | 1168.9 | 1179.9 | 1162.2 | 1129.3 | 1090.8 |
| 57.5° | 1154.0 | 1159.7 | 1193.4 | 1237.6 | 1262.1 | 1263.6 | 1268.5 | 1238.6 | 1198.7 | 1155.0 |
| 60° | 1227.6 | 1235.6 | 1272.3 | 1325.2 | 1363.9 | 1376.4 | 1371.1 | 1326.7 | 1280.3 | 1230.1 |
| 62.5° | 1322.0 | 1330.7 | 1374.6 | 1438.0 | 1499.2 | 1530.1 | 1509.7 | 1445.3 | 1387.9 | 1327.7 |
| 65° | 1400.1 | 1409.8 | 1489.2 | 1602.3 | 1713.6 | 1775.8 | 1724.3 | 1605.8 | 1502.4 | 1417.6 |
| 67.5° | 1343.4 | 1355.4 | 1480.0 | 1687.6 | 1964.5 | 2149.9 | 1974.0 | 1713.1 | 1510.7 | 1395.6 |
| 70° | 1174.2 | 1185.4 | 1330.7 | 1584.6 | 2035.1 | 2441.5 | 2077.5 | 1631.2 | 1335.4 | 1206.6 |
| 72.5° | 779.5 | 815.7 | 962.8 | 1267.3 | 1817.2 | 2259.3 | 1835.2 | 1241.6 | 893.1 | 777.8 |
| 75° | 258.6 | 287.6 | 387.9 | 657.0 | 1217.1 | 1689.6 | 1158.7 | 581.4 | 307.3 | 221.2 |
| 77.5° | 65.1 | 75.1 | 103.6 | 188.0 | 485.5 | 962.0 | 437.1 | 153.5 | 83.6 | 58.4 |
| 80° | 31.7 | 34.9 | 49.9 | 62.7 | 121.6 | 305.8 | 114.1 | 58.9 | 39.4 | 30.5 |
| 82.5° | 17.5 | 17.7 | 28.2 | 35.4 | 45.2 | 79.1 | 46.9 | 34.4 | 22.7 | 18.5 |
| 85° | 10.7 | 10.5 | 15.0 | 19.0 | 19.0 | 28.2 | 22.5 | 19.0 | 13.0 | 11.5 |
| 87.5° | 4.2 | 4.2 | 5.5 | 6.0 | 5.2 | 7.2 | 5.7 | 6.2 | 5.0 | 4.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 476.3 |
| 478.8 |
| 482.5 |
| 487.0 |
| 491.2 |
| 495.5 |
| 502.2 |
| 510.5 |
| 519.9 |
| 529.4 |
| 540.2 |
| 554.9 |
| 575.9 |
| 604.3 |
| 640.3 |
| 684.2 |
| 735.6 |
| 792.3 |
| 852.7 |
| 911.8 |
| 974.0 |
| 1029.7 |
| 1085.6 |
| 1149.0 |
| 1222.1 |
| 1317.2 |
| 1403.6 |
| 1378.4 |
| 1189.4 |
| 752.6 |
| 209.2 |
| 52.2 |
| 28.0 |
| 18.5 |
| 12.0 |
| 5.0 |
| 0.0 |

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