

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: P957451

Luminaire Tested: **GALN-SB9D-760-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957451
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-SB9D-760-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 102694 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

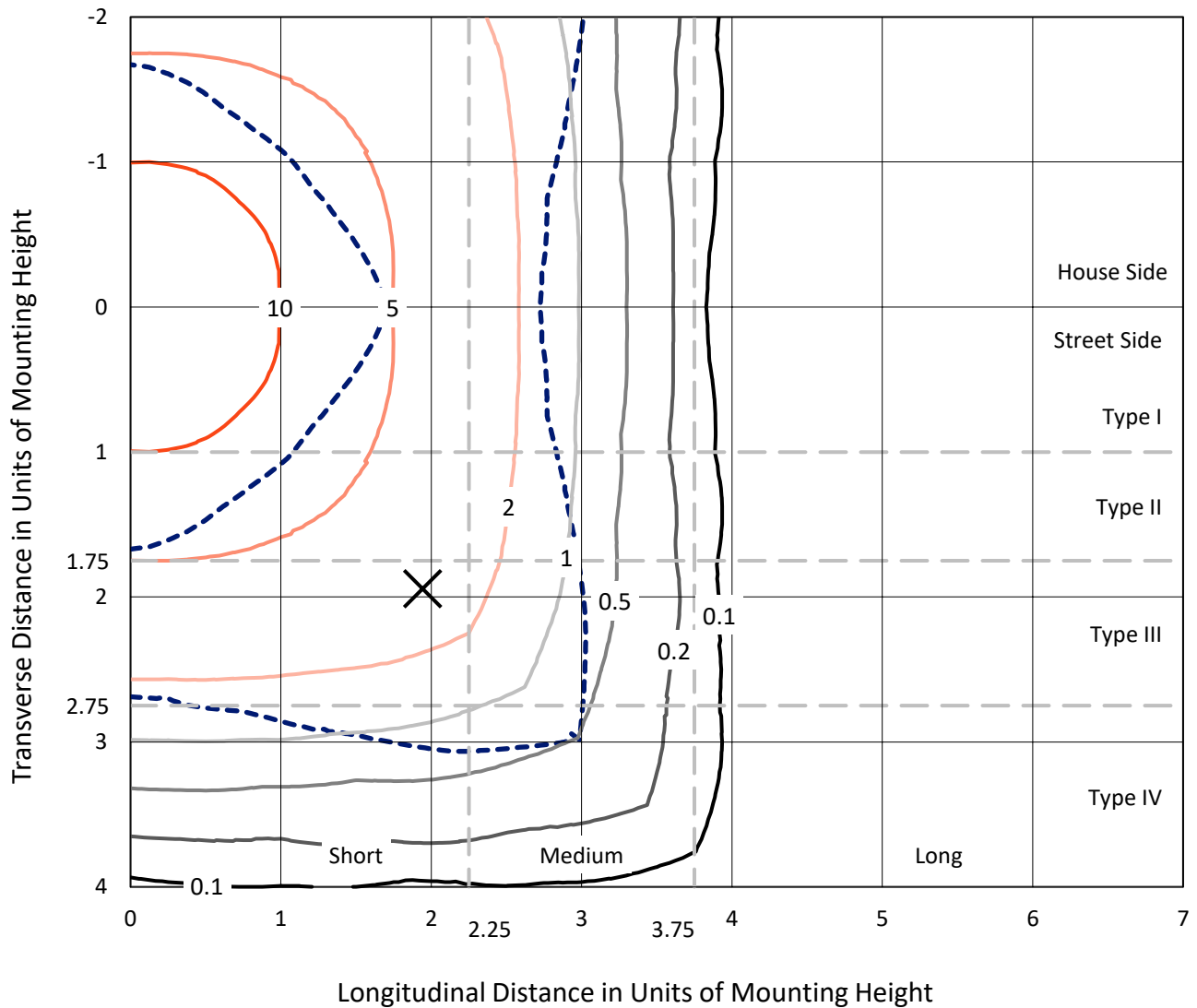
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957451
 CATALOG NUMBER: GALN-SB9D-760-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

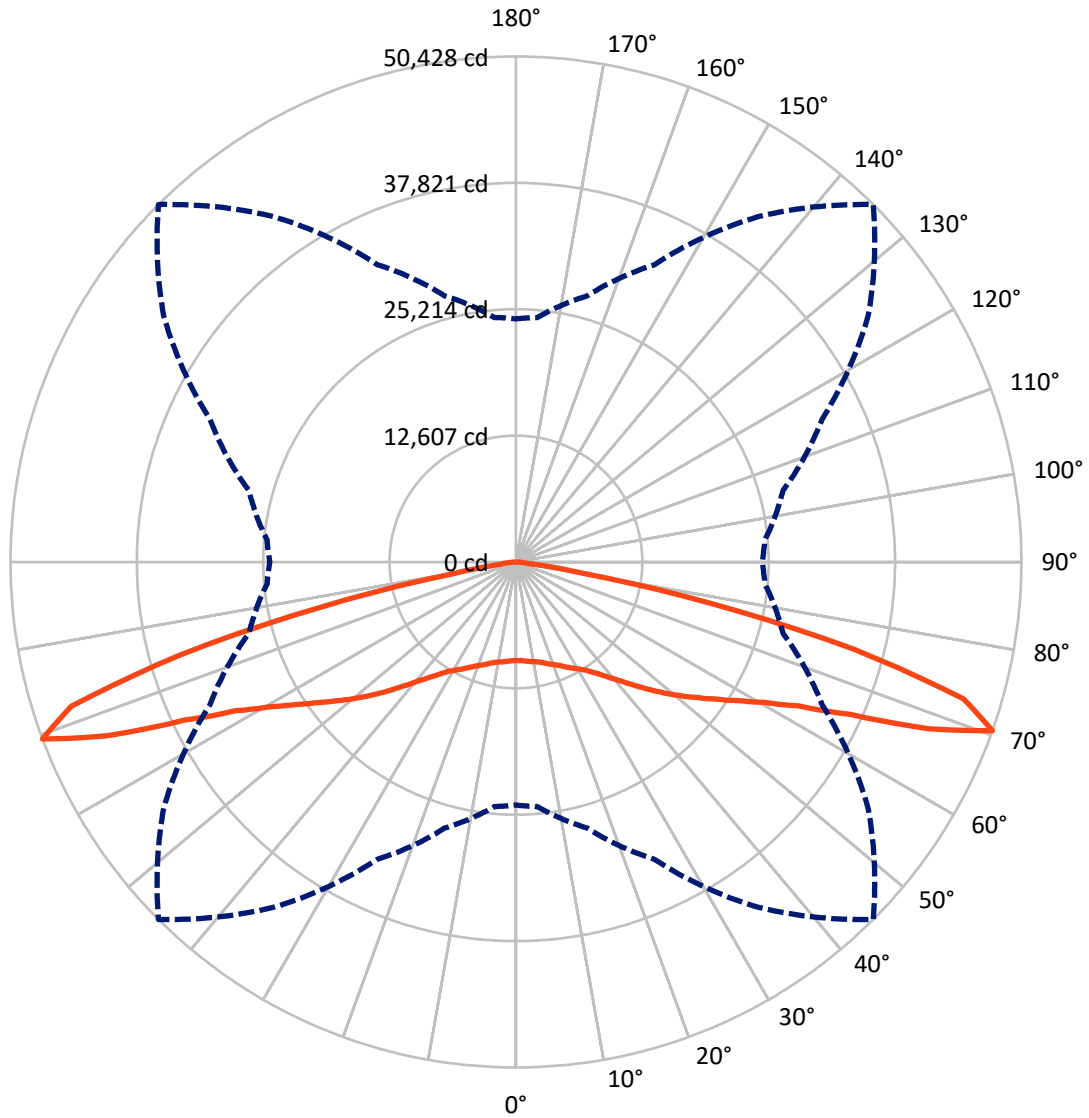
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type V - Short - N/A

REPORT NUMBER: P957451
CATALOG NUMBER: GALN-SB9D-760-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P957451

CATALOG NUMBER: GALN-SB9D-760-U-5MQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|----------|
| House Side | Lumens | 51347.0 | 0.0 | 51347.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 51347.0 | 0.0 | 51347.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 102694.0 | 0.0 | 102694.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|----------|-----------|
| 0°-10° | 955.7 | 0.9 |
| 10°-20° | 2963.4 | 2.9 |
| 20°-30° | 5296.0 | 5.2 |
| 30°-40° | 8584.7 | 8.4 |
| 40°-50° | 13983.1 | 13.6 |
| 50°-60° | 21319.4 | 20.8 |
| 60°-70° | 31716.5 | 30.9 |
| 70°-80° | 17286.5 | 16.8 |
| 80°-90° | 588.7 | 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° | 102694.0 | 100.0 |
| 0°-180° | 102694.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P957451

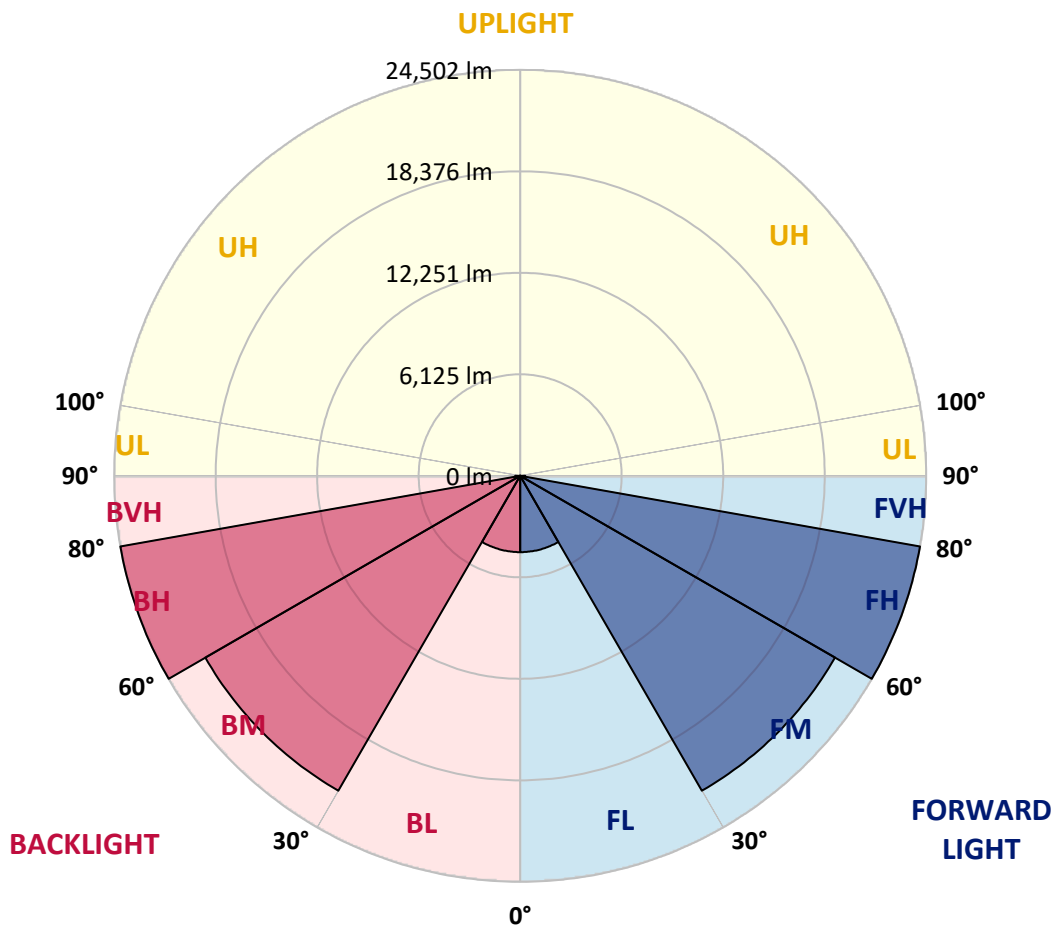
CATALOG NUMBER: GALN-SB9D-760-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4607.5 | 4.5 | | | |
| FM (30°-60°) | 21943.6 | 21.4 | | | |
| FH (60°-80°) | 24501.5 | 23.9 | | | G5 |
| FVH (80°-90°) | 294.3 | 0.3 | | | G3/500 |
| BL (0°-30°) | 4607.5 | 4.5 | B4/5000 | | |
| BM (30°-60°) | 21943.6 | 21.4 | B5 | | |
| BH (60°-80°) | 24501.5 | 23.9 | B5 | | G5 |
| BVH (80°-90°) | 294.3 | 0.3 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short



REPORT NUMBER: P957451

CATALOG NUMBER: GALN-SB9D-760-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9837.0 | 9837.0 | 9837.0 | 9837.0 | 9837.0 | 9837.0 | 9837.0 | 9837.0 | 9837.0 | 9837.0 |
| 2.5° | 9883.4 | 9893.7 | 9873.1 | 9862.8 | 9852.5 | 9837.0 | 9842.2 | 9868.0 | 9888.6 | 9883.4 |
| 5° | 9965.9 | 9976.2 | 9960.8 | 9955.6 | 9935.0 | 9929.8 | 9929.8 | 9955.6 | 9971.1 | 9960.8 |
| 7.5° | 10058.7 | 10074.2 | 10048.4 | 10043.2 | 10032.9 | 10022.6 | 10017.5 | 10043.2 | 10058.7 | 10058.7 |
| 10° | 10146.4 | 10161.8 | 10141.2 | 10125.7 | 10115.4 | 10115.4 | 10105.1 | 10125.7 | 10151.5 | 10146.4 |
| 12.5° | 10239.2 | 10249.5 | 10228.9 | 10218.5 | 10218.5 | 10234.0 | 10218.5 | 10228.9 | 10249.5 | 10239.2 |
| 15° | 10352.6 | 10357.7 | 10352.6 | 10368.1 | 10393.8 | 10445.4 | 10399.0 | 10388.7 | 10399.0 | 10373.2 |
| 17.5° | 10507.3 | 10517.6 | 10538.2 | 10574.3 | 10610.4 | 10703.2 | 10620.7 | 10594.9 | 10594.9 | 10543.3 |
| 20° | 10698.0 | 10713.5 | 10744.4 | 10806.3 | 10852.7 | 10940.3 | 10857.8 | 10821.8 | 10806.3 | 10739.3 |
| 22.5° | 10899.1 | 10924.9 | 10971.3 | 11053.8 | 11136.3 | 11218.7 | 11136.3 | 11074.4 | 11028.0 | 10940.3 |
| 25° | 11131.1 | 11162.0 | 11234.2 | 11368.3 | 11481.7 | 11600.3 | 11502.3 | 11378.6 | 11285.8 | 11162.0 |
| 27.5° | 11461.1 | 11497.1 | 11584.8 | 11749.8 | 11894.1 | 11997.2 | 11904.4 | 11744.6 | 11615.7 | 11466.2 |
| 30° | 11925.1 | 11961.2 | 12064.3 | 12239.6 | 12337.5 | 12404.5 | 12342.7 | 12218.9 | 12064.3 | 11894.1 |
| 32.5° | 12523.1 | 12569.5 | 12683.0 | 12847.9 | 12868.6 | 12878.9 | 12858.2 | 12796.4 | 12683.0 | 12476.7 |
| 35° | 13281.0 | 13332.6 | 13461.5 | 13595.5 | 13574.9 | 13595.5 | 13564.6 | 13544.0 | 13461.5 | 13224.3 |
| 37.5° | 14209.0 | 14270.9 | 14404.9 | 14508.1 | 14456.5 | 14430.7 | 14435.9 | 14441.0 | 14394.6 | 14131.7 |
| 40° | 15286.6 | 15369.1 | 15467.0 | 15575.3 | 15487.6 | 15410.3 | 15461.9 | 15503.1 | 15461.9 | 15193.8 |
| 42.5° | 16395.0 | 16513.6 | 16616.7 | 16771.4 | 16699.2 | 16601.3 | 16673.4 | 16719.8 | 16632.2 | 16343.5 |
| 45° | 17627.2 | 17740.7 | 17874.7 | 18106.7 | 18055.2 | 17952.1 | 18055.2 | 18065.5 | 17916.0 | 17575.7 |
| 47.5° | 18900.7 | 19019.3 | 19220.3 | 19529.7 | 19509.1 | 19395.6 | 19529.7 | 19457.5 | 19266.7 | 18859.4 |
| 50° | 20107.1 | 20272.1 | 20581.4 | 21014.5 | 21055.8 | 20916.6 | 21097.0 | 20957.8 | 20638.2 | 20127.7 |
| 52.5° | 21241.4 | 21416.7 | 21906.5 | 22494.2 | 22643.7 | 22463.3 | 22705.6 | 22463.3 | 21983.8 | 21329.0 |
| 55° | 22432.3 | 22628.2 | 23210.8 | 23979.0 | 24278.1 | 24144.0 | 24370.9 | 24004.8 | 23324.3 | 22530.3 |
| 57.5° | 23834.7 | 23953.3 | 24649.3 | 25561.8 | 26067.1 | 26098.0 | 26201.1 | 25582.4 | 24757.5 | 23855.3 |
| 60° | 25355.6 | 25520.6 | 26278.5 | 27371.5 | 28170.6 | 28428.4 | 28320.1 | 27402.4 | 26443.4 | 25407.2 |
| 62.5° | 27304.4 | 27484.9 | 28392.3 | 29701.8 | 30965.0 | 31604.3 | 31181.5 | 29851.3 | 28665.5 | 27423.0 |
| 65° | 28918.2 | 29119.2 | 30758.7 | 33094.3 | 35393.7 | 36677.5 | 35615.4 | 33166.4 | 31032.0 | 29279.1 |
| 67.5° | 27747.8 | 27995.3 | 30568.0 | 34857.5 | 40575.1 | 44405.8 | 40771.1 | 35383.4 | 31202.1 | 28825.4 |
| 70° | 24252.3 | 24484.3 | 27484.9 | 32728.2 | 42034.2 | 50427.6 | 42910.7 | 33692.3 | 27582.8 | 24922.5 |
| 72.5° | 16101.2 | 16848.7 | 19885.4 | 26175.3 | 37533.3 | 46664.0 | 37904.5 | 25644.3 | 18447.0 | 16065.1 |
| 75° | 5341.3 | 5939.3 | 8011.9 | 13569.7 | 25139.1 | 34898.7 | 23932.6 | 12007.6 | 6346.6 | 4567.9 |
| 77.5° | 1345.6 | 1551.9 | 2139.6 | 3882.2 | 10027.8 | 19870.0 | 9027.6 | 3170.7 | 1727.2 | 1206.4 |
| 80° | 654.8 | 721.8 | 1031.1 | 1294.1 | 2510.8 | 6315.7 | 2356.1 | 1216.7 | 814.6 | 629.0 |
| 82.5° | 360.9 | 366.1 | 582.6 | 732.1 | 933.2 | 1634.3 | 969.3 | 711.5 | 469.2 | 381.5 |
| 85° | 221.7 | 216.5 | 309.3 | 391.8 | 391.8 | 582.6 | 464.0 | 391.8 | 268.1 | 237.2 |
| 87.5° | 87.6 | 87.6 | 113.4 | 123.7 | 108.3 | 149.5 | 118.6 | 128.9 | 103.1 | 98.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 9837.0 |
| 9888.6 |
| 9965.9 |
| 10058.7 |
| 10146.4 |
| 10234.0 |
| 10373.2 |
| 10543.3 |
| 10739.3 |
| 10935.2 |
| 11156.9 |
| 11461.1 |
| 11894.1 |
| 12481.9 |
| 13224.3 |
| 14131.7 |
| 15193.8 |
| 16364.1 |
| 17611.8 |
| 18833.7 |
| 20117.4 |
| 21267.1 |
| 22422.0 |
| 23731.6 |
| 25242.2 |
| 27206.5 |
| 28990.3 |
| 28469.6 |
| 24566.8 |
| 15544.4 |
| 4320.5 |
| 1077.5 |
| 577.4 |
| 381.5 |
| 247.5 |
| 103.1 |
| 0.0 |

OF REPORT)