

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: STREETWORKS

Report Number: P529132

Luminaire Tested: **GLAN-SA4B-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18509 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

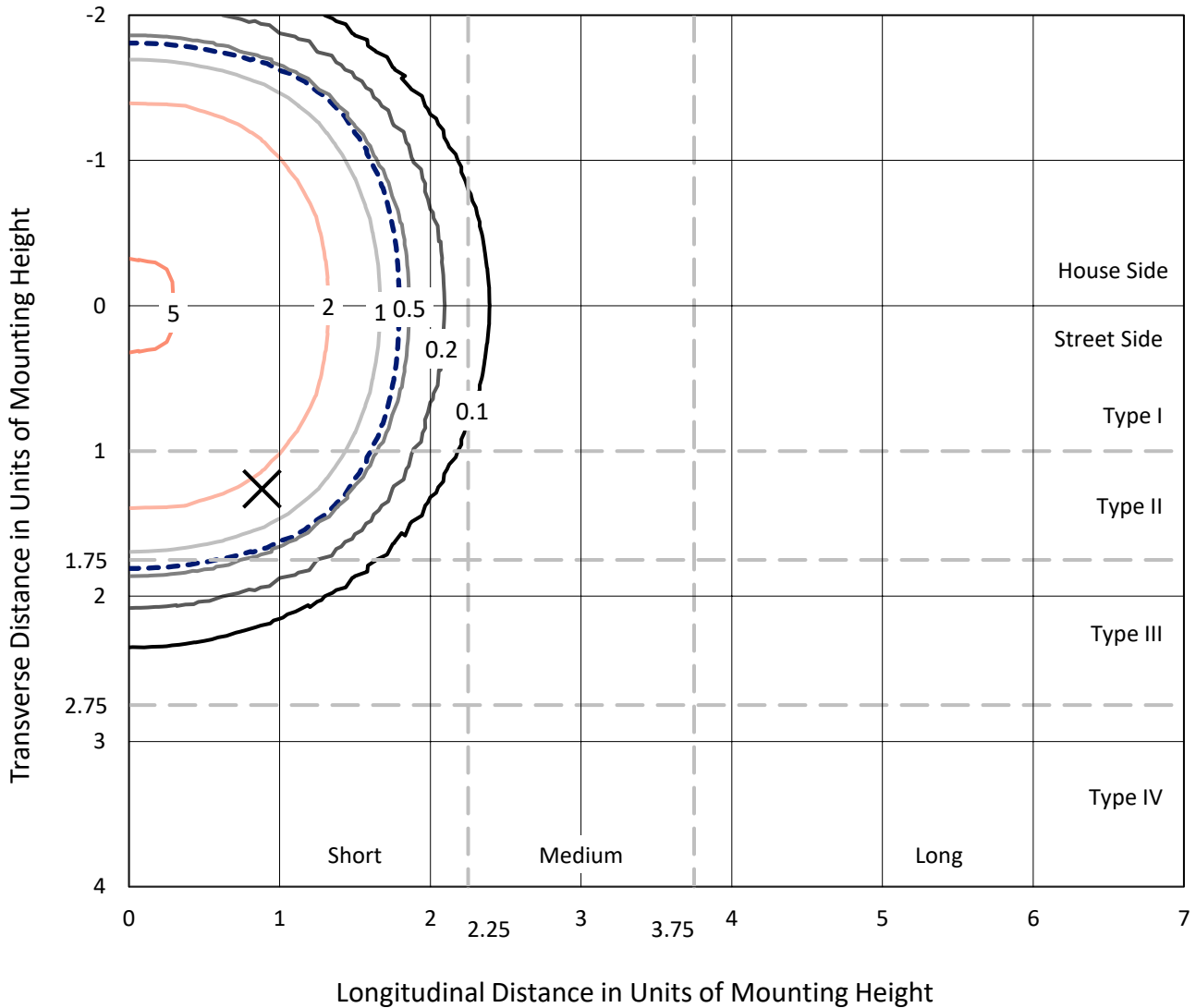
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529132
 CATALOG NUMBER: GLAN-SA4B-735-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

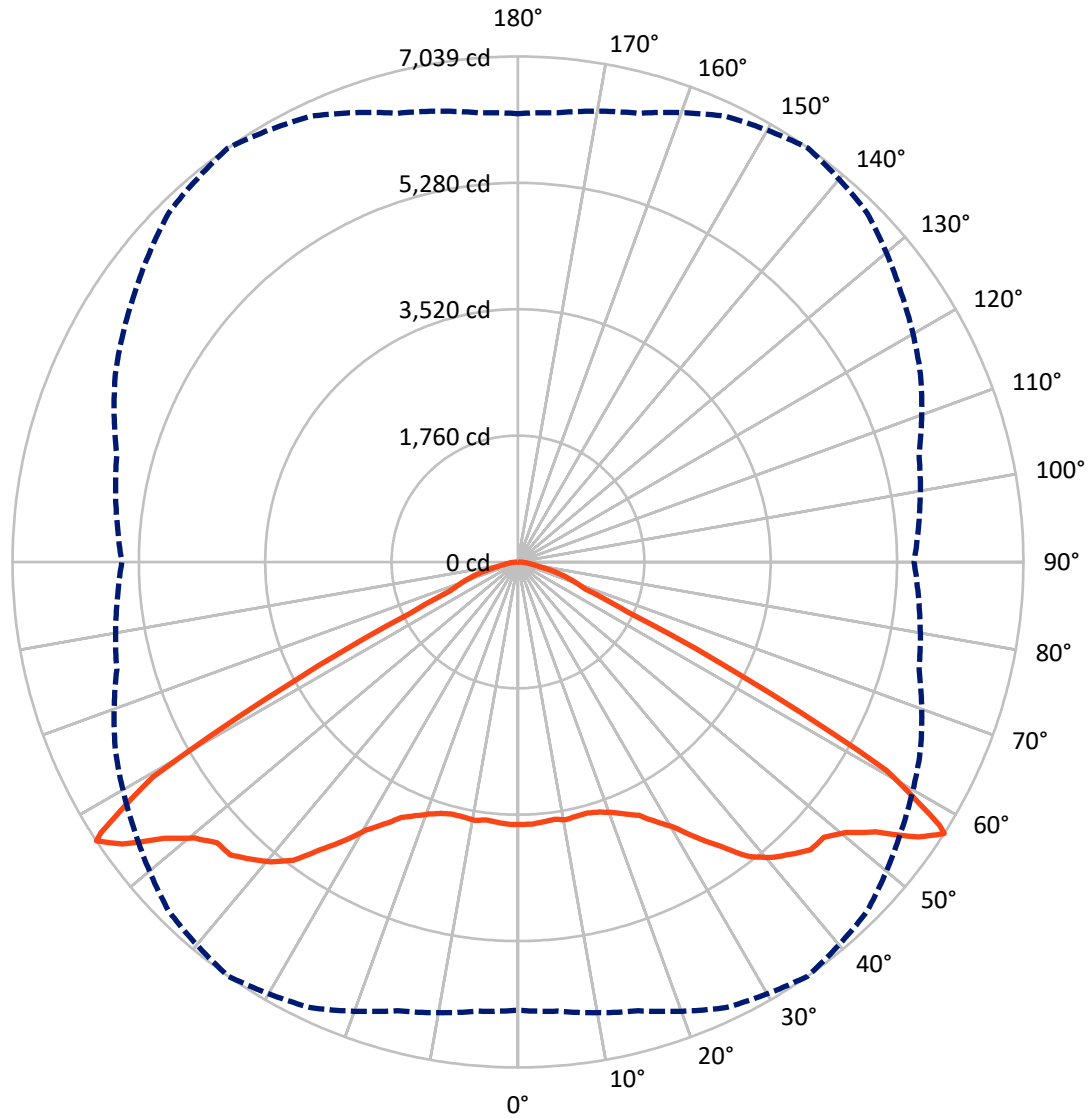
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

REPORT NUMBER: P529132
CATALOG NUMBER: GLAN-SA4B-735-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P529132
 CATALOG NUMBER: GLAN-SA4B-735-U-5MQ-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9254.5 | 0.0 | 9254.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9254.5 | 0.0 | 9254.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18509.0 | 0.0 | 18509.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 346.5 | 1.9 |
| 10°-20° | 1026.4 | 5.5 |
| 20°-30° | 1792.5 | 9.7 |
| 30°-40° | 2937.1 | 15.9 |
| 40°-50° | 4306.5 | 23.3 |
| 50°-60° | 5424.4 | 29.3 |
| 60°-70° | 2040.1 | 11.0 |
| 70°-80° | 542.4 | 2.9 |
| 80°-90° | 93.0 | 0.5 |
| 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° | 18509.0 | 100.0 |
| 0°-180° | 18509.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P529132

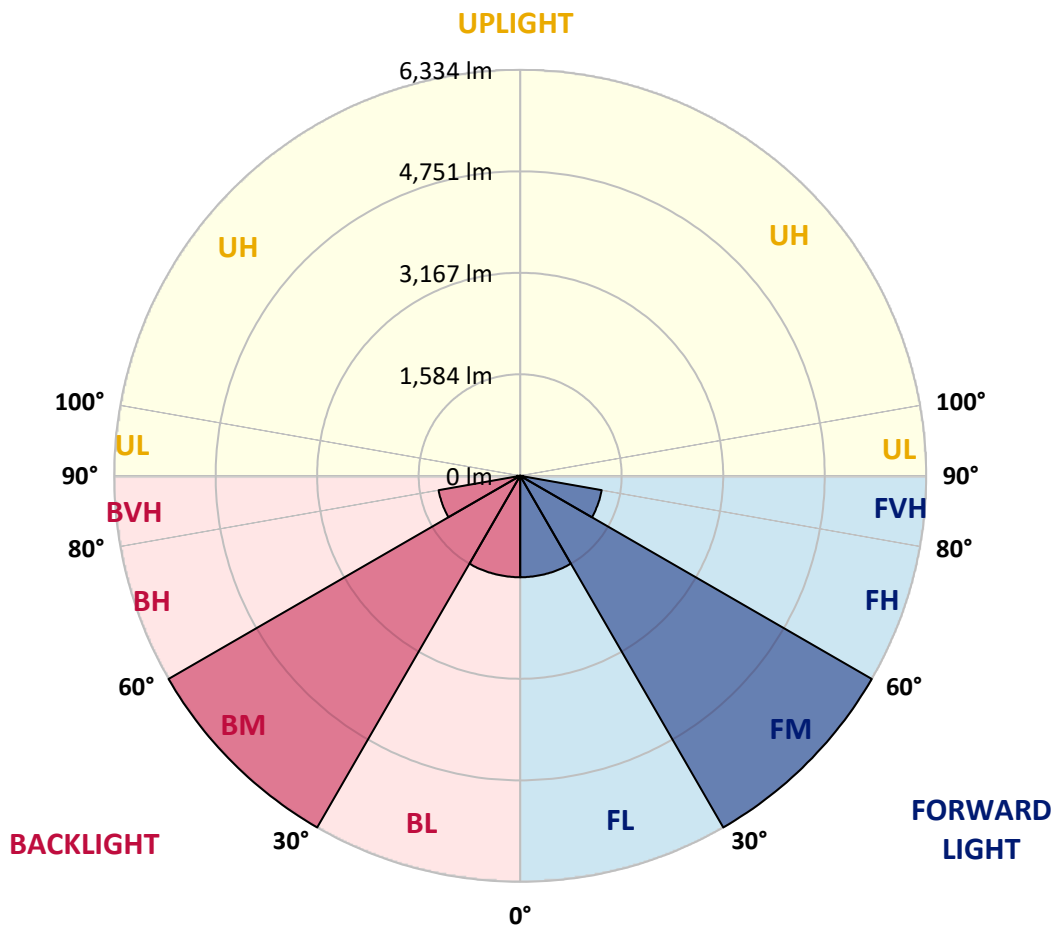
CATALOG NUMBER: GLAN-SA4B-735-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1582.7 | 8.6 | | | |
| FM (30°-60°) | 6334.0 | 34.2 | | | |
| FH (60°-80°) | 1291.3 | 7.0 | | | G1/1800 |
| FVH (80°-90°) | 46.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1582.7 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 6334.0 | 34.2 | B4/8500 | | |
| BH (60°-80°) | 1291.3 | 7.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 46.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P529132

CATALOG NUMBER: GLAN-SA4B-735-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 | 3655.4 |
| 2.5° | 3637.1 | 3673.6 | 3657.7 | 3648.6 | 3655.4 | 3644.0 | 3625.7 | 3646.3 | 3641.7 | 3623.5 | 3616.6 |
| 5° | 3628.0 | 3655.4 | 3637.1 | 3655.4 | 3637.1 | 3669.1 | 3660.0 | 3625.7 | 3666.8 | 3628.0 | 3641.7 |
| 7.5° | 3621.2 | 3630.3 | 3634.9 | 3625.7 | 3618.9 | 3657.7 | 3637.1 | 3621.2 | 3598.4 | 3591.5 | 3602.9 |
| 10° | 3605.2 | 3628.0 | 3593.8 | 3639.4 | 3648.6 | 3621.2 | 3621.2 | 3591.5 | 3573.3 | 3561.9 | 3600.7 |
| 12.5° | 3646.3 | 3607.5 | 3602.9 | 3625.7 | 3632.6 | 3644.0 | 3612.1 | 3596.1 | 3561.9 | 3566.5 | 3559.6 |
| 15° | 3598.4 | 3614.3 | 3616.6 | 3621.2 | 3628.0 | 3655.4 | 3625.7 | 3591.5 | 3577.9 | 3530.0 | 3534.5 |
| 17.5° | 3616.6 | 3600.7 | 3616.6 | 3669.1 | 3660.0 | 3680.5 | 3648.6 | 3596.1 | 3564.2 | 3536.8 | 3573.3 |
| 20° | 3648.6 | 3641.7 | 3648.6 | 3712.4 | 3723.8 | 3742.0 | 3714.7 | 3666.8 | 3605.2 | 3573.3 | 3591.5 |
| 22.5° | 3682.8 | 3678.2 | 3682.8 | 3744.3 | 3810.5 | 3833.3 | 3805.9 | 3694.2 | 3662.2 | 3602.9 | 3582.4 |
| 25° | 3744.3 | 3748.9 | 3796.8 | 3865.2 | 3908.5 | 3951.8 | 3901.7 | 3821.9 | 3719.2 | 3682.8 | 3639.4 |
| 27.5° | 3881.1 | 3892.5 | 3919.9 | 4020.2 | 4095.5 | 4134.3 | 4063.6 | 3954.1 | 3890.3 | 3815.0 | 3803.6 |
| 30° | 4049.9 | 4049.9 | 4097.8 | 4184.4 | 4287.0 | 4346.3 | 4259.7 | 4129.7 | 4052.2 | 4011.1 | 3986.0 |
| 32.5° | 4273.4 | 4248.3 | 4266.5 | 4419.3 | 4578.9 | 4629.1 | 4512.8 | 4353.2 | 4230.0 | 4175.3 | 4157.1 |
| 35° | 4464.9 | 4480.9 | 4521.9 | 4686.1 | 4864.0 | 4980.3 | 4797.8 | 4590.3 | 4464.9 | 4414.7 | 4405.6 |
| 37.5° | 4713.5 | 4740.8 | 4761.4 | 4987.1 | 5201.5 | 5244.8 | 5069.2 | 4902.7 | 4750.0 | 4708.9 | 4686.1 |
| 40° | 5064.6 | 5046.4 | 5053.2 | 5219.7 | 5413.5 | 5440.9 | 5267.6 | 5149.0 | 5023.6 | 4998.5 | 4998.5 |
| 42.5° | 5354.2 | 5333.7 | 5356.5 | 5418.1 | 5566.3 | 5545.8 | 5450.0 | 5363.4 | 5310.9 | 5283.6 | 5310.9 |
| 45° | 5529.8 | 5525.3 | 5566.3 | 5611.9 | 5716.8 | 5648.4 | 5573.2 | 5586.8 | 5536.7 | 5491.1 | 5488.8 |
| 47.5° | 5721.4 | 5691.7 | 5741.9 | 5810.3 | 5730.5 | 5698.6 | 5694.0 | 5723.7 | 5707.7 | 5627.9 | 5602.8 |
| 50° | 5814.9 | 5803.5 | 5883.3 | 5963.1 | 5919.8 | 5846.8 | 5862.8 | 5910.7 | 5705.4 | 5598.2 | 5536.7 |
| 52.5° | 6065.7 | 6068.0 | 6220.8 | 6264.1 | 6245.9 | 6138.7 | 6172.9 | 6042.9 | 5801.2 | 5650.7 | 5657.5 |
| 55° | 6460.2 | 6444.3 | 6615.3 | 6743.0 | 6763.5 | 6626.7 | 6462.5 | 6280.1 | 5976.8 | 5824.0 | 5778.4 |
| 57° | 6243.6 | 6280.1 | 6469.3 | 6847.9 | 7039.4 | 6877.5 | 6519.5 | 6186.6 | 5783.0 | 5598.2 | 5516.2 |
| 57.5° | 5954.0 | 6013.3 | 6341.6 | 6722.5 | 6923.1 | 6909.4 | 6448.8 | 6013.3 | 5653.0 | 5365.6 | 5372.5 |
| 60° | 4362.3 | 4373.7 | 4670.1 | 5274.4 | 5901.5 | 5915.2 | 5354.2 | 4777.3 | 4376.0 | 4063.6 | 4106.9 |
| 62.5° | 2300.9 | 2353.3 | 2471.9 | 2957.6 | 3500.3 | 3632.6 | 3292.8 | 2996.4 | 2649.8 | 2412.6 | 2435.4 |
| 65° | 1217.7 | 1210.9 | 1267.9 | 1404.7 | 1671.5 | 1739.9 | 1694.3 | 1459.4 | 1338.6 | 1299.8 | 1302.1 |
| 67.5° | 989.7 | 1001.1 | 994.2 | 1001.1 | 1019.3 | 1049.0 | 1042.1 | 1051.2 | 1058.1 | 1069.5 | 1067.2 |
| 70° | 839.2 | 839.2 | 843.7 | 846.0 | 846.0 | 859.7 | 875.7 | 905.3 | 907.6 | 919.0 | 923.5 |
| 72.5° | 661.3 | 656.7 | 663.6 | 679.5 | 681.8 | 693.2 | 716.0 | 734.3 | 741.1 | 741.1 | 727.4 |
| 75° | 449.2 | 453.8 | 462.9 | 476.6 | 490.3 | 510.8 | 529.0 | 540.4 | 545.0 | 538.2 | 531.3 |
| 77.5° | 253.1 | 257.7 | 264.5 | 285.0 | 301.0 | 319.2 | 339.8 | 351.2 | 362.6 | 364.9 | 351.2 |
| 80° | 150.5 | 150.5 | 161.9 | 177.9 | 196.1 | 214.4 | 232.6 | 246.3 | 250.8 | 250.8 | 244.0 |
| 82.5° | 91.2 | 93.5 | 102.6 | 118.6 | 134.5 | 145.9 | 161.9 | 173.3 | 182.4 | 180.1 | 175.6 |
| 85° | 47.9 | 47.9 | 57.0 | 70.7 | 82.1 | 93.5 | 93.5 | 86.7 | 82.1 | 70.7 | 66.1 |
| 87.5° | 16.0 | 13.7 | 18.2 | 18.2 | 16.0 | 18.2 | 18.2 | 20.5 | 20.5 | 20.5 | 20.5 |
| 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)