

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: P531783

Luminaire Tested: **GALN-SA7A-760-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-760-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19116 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

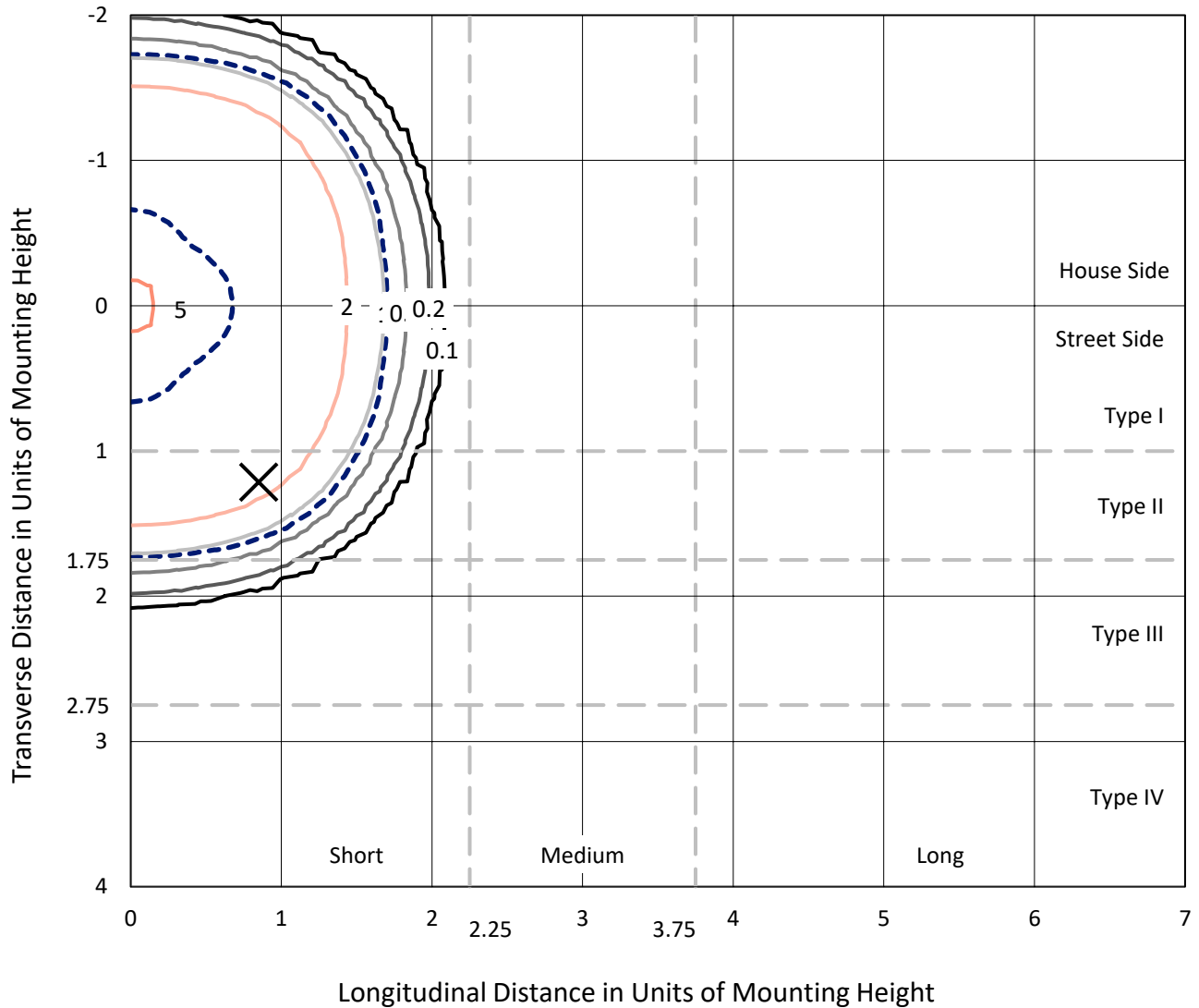
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

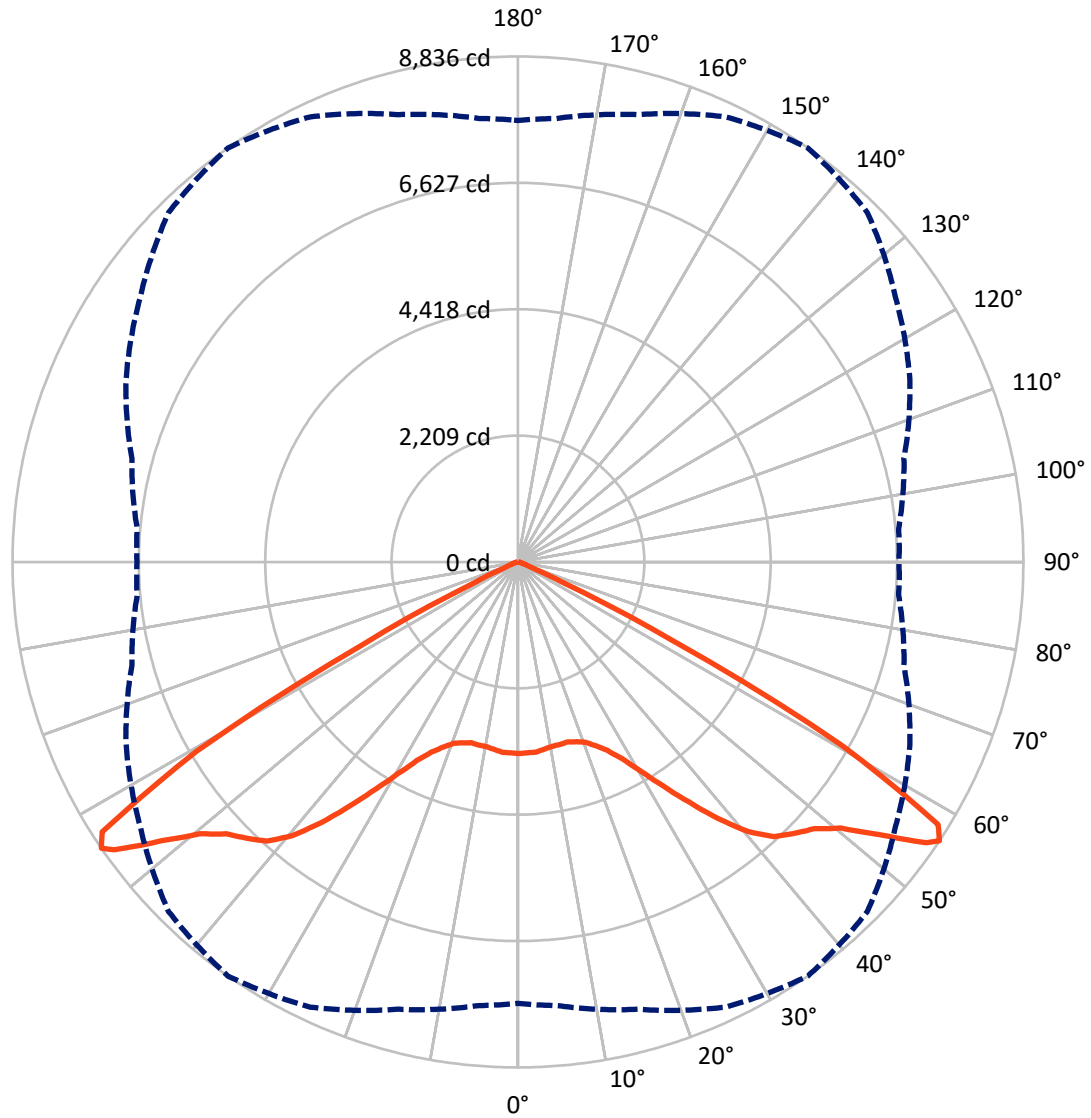
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9558.0 | 0.0 | 9558.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9558.0 | 0.0 | 9558.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19116.0 | 0.0 | 19116.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 314.8 | 1.6 |
| 10°-20° | 919.1 | 4.8 |
| 20°-30° | 1664.3 | 8.7 |
| 30°-40° | 3086.3 | 16.1 |
| 40°-50° | 5065.9 | 26.5 |
| 50°-60° | 6526.3 | 34.1 |
| 60°-70° | 1438.3 | 7.5 |
| 70°-80° | 83.5 | 0.4 |
| 80°-90° | 17.6 | 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° | 19116.0 | 100.0 |
| 0°-180° | 19116.0 | 100.0 |

Coefficient of Utilization



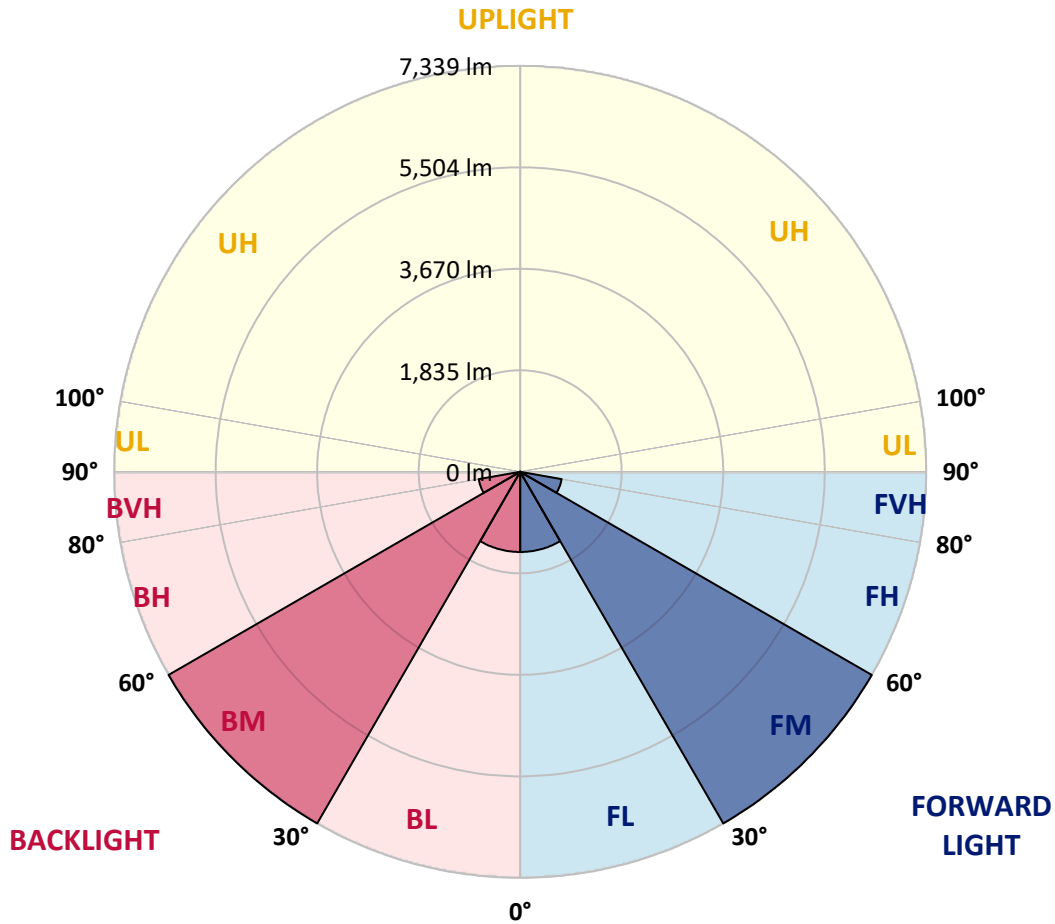
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1449.1 | 7.6 | | | |
| FM (30°-60°) | 7339.2 | 38.4 | | | |
| FH (60°-80°) | 760.9 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 8.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1449.1 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 7339.2 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 760.9 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 8.8 | 0.0 | | | G0/10 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 | 3349.5 |
| 2.5° | 3356.5 | 3356.5 | 3359.9 | 3363.4 | 3339.1 | 3328.8 | 3332.2 | 3325.3 | 3321.8 | 3332.2 | 3332.2 |
| 5° | 3346.1 | 3346.1 | 3335.7 | 3339.1 | 3339.1 | 3308.0 | 3308.0 | 3314.9 | 3314.9 | 3294.1 | 3287.2 |
| 7.5° | 3318.4 | 3311.4 | 3297.6 | 3314.9 | 3304.5 | 3304.5 | 3280.3 | 3262.9 | 3256.0 | 3269.9 | 3256.0 |
| 10° | 3259.5 | 3262.9 | 3276.8 | 3283.7 | 3276.8 | 3297.6 | 3256.0 | 3231.8 | 3207.5 | 3197.1 | 3197.1 |
| 12.5° | 3231.8 | 3252.5 | 3231.8 | 3249.1 | 3273.3 | 3256.0 | 3231.8 | 3214.4 | 3179.8 | 3166.0 | 3166.0 |
| 15° | 3228.3 | 3242.2 | 3249.1 | 3273.3 | 3262.9 | 3269.9 | 3221.4 | 3200.6 | 3148.6 | 3124.4 | 3114.0 |
| 17.5° | 3224.8 | 3242.2 | 3252.5 | 3297.6 | 3304.5 | 3308.0 | 3269.9 | 3207.5 | 3162.5 | 3138.2 | 3114.0 |
| 20° | 3262.9 | 3269.9 | 3290.6 | 3335.7 | 3363.4 | 3411.9 | 3342.6 | 3276.8 | 3179.8 | 3152.1 | 3141.7 |
| 22.5° | 3311.4 | 3346.1 | 3366.9 | 3415.3 | 3488.1 | 3529.7 | 3439.6 | 3356.5 | 3256.0 | 3221.4 | 3179.8 |
| 25° | 3467.3 | 3460.4 | 3495.0 | 3595.5 | 3654.4 | 3685.5 | 3612.8 | 3491.6 | 3359.9 | 3318.4 | 3325.3 |
| 27.5° | 3661.3 | 3668.2 | 3699.4 | 3810.2 | 3896.8 | 3945.3 | 3858.7 | 3699.4 | 3571.2 | 3501.9 | 3495.0 |
| 30° | 3914.1 | 3907.2 | 3941.9 | 4090.8 | 4246.7 | 4319.4 | 4167.0 | 3980.0 | 3855.3 | 3765.2 | 3786.0 |
| 32.5° | 4180.9 | 4184.3 | 4281.3 | 4416.4 | 4669.3 | 4811.3 | 4565.3 | 4336.7 | 4149.7 | 4087.3 | 4056.2 |
| 35° | 4575.7 | 4593.1 | 4669.3 | 4877.1 | 5157.7 | 5341.2 | 5071.1 | 4797.4 | 4582.7 | 4468.4 | 4482.2 |
| 37.5° | 5064.1 | 5046.8 | 5175.0 | 5400.1 | 5694.6 | 5829.6 | 5601.0 | 5289.3 | 5071.1 | 4994.9 | 5043.4 |
| 40° | 5583.7 | 5601.0 | 5666.8 | 5871.2 | 6200.3 | 6290.3 | 5950.9 | 5781.2 | 5590.6 | 5552.5 | 5611.4 |
| 42.5° | 6103.3 | 6092.9 | 6141.4 | 6325.0 | 6564.0 | 6501.6 | 6300.7 | 6200.3 | 6065.2 | 5989.0 | 6068.6 |
| 45° | 6484.3 | 6467.0 | 6557.1 | 6681.7 | 6768.3 | 6650.6 | 6560.5 | 6525.9 | 6456.6 | 6373.5 | 6446.2 |
| 47.5° | 6854.9 | 6841.1 | 6927.7 | 6962.3 | 6969.2 | 6813.4 | 6830.7 | 6893.0 | 6719.9 | 6546.7 | 6629.8 |
| 50° | 7170.2 | 7145.9 | 7253.3 | 7329.5 | 7312.2 | 7062.8 | 7125.1 | 7062.8 | 6792.6 | 6588.2 | 6557.1 |
| 52.5° | 7696.7 | 7707.0 | 7821.4 | 7959.9 | 7918.3 | 7710.5 | 7620.5 | 7336.4 | 6990.0 | 6806.4 | 6699.1 |
| 55° | 8029.2 | 7977.2 | 8174.7 | 8614.6 | 8663.1 | 8448.3 | 8050.0 | 7630.8 | 7111.3 | 6886.1 | 6858.4 |
| 56° | 7717.4 | 7783.3 | 8095.0 | 8586.9 | 8836.3 | 8638.8 | 8060.4 | 7558.1 | 6986.6 | 6681.7 | 6661.0 |
| 57.5° | 6924.2 | 6889.6 | 7312.2 | 7984.2 | 8663.1 | 8579.9 | 7776.3 | 7038.5 | 6373.5 | 6030.5 | 5989.0 |
| 60° | 4309.0 | 4409.5 | 4780.1 | 5611.4 | 6518.9 | 6560.5 | 5763.8 | 5129.9 | 4354.0 | 4049.2 | 4122.0 |
| 62.5° | 1686.9 | 1600.3 | 1832.4 | 2452.4 | 3075.9 | 3214.4 | 2913.1 | 2421.2 | 1988.2 | 1686.9 | 1666.1 |
| 65° | 391.4 | 381.0 | 429.5 | 592.3 | 827.9 | 959.5 | 911.0 | 654.7 | 481.5 | 457.2 | 422.6 |
| 67.5° | 221.7 | 221.7 | 211.3 | 211.3 | 232.1 | 245.9 | 235.5 | 232.1 | 242.5 | 252.9 | 249.4 |
| 70° | 155.9 | 152.4 | 145.5 | 148.9 | 142.0 | 142.0 | 152.4 | 169.7 | 183.6 | 183.6 | 187.0 |
| 72.5° | 93.5 | 93.5 | 93.5 | 103.9 | 103.9 | 103.9 | 114.3 | 128.2 | 131.6 | 128.2 | 124.7 |
| 75° | 41.6 | 41.6 | 48.5 | 58.9 | 65.8 | 69.3 | 79.7 | 86.6 | 93.5 | 86.6 | 79.7 |
| 77.5° | 10.4 | 10.4 | 17.3 | 24.2 | 31.2 | 38.1 | 52.0 | 62.3 | 65.8 | 62.3 | 52.0 |
| 80° | 3.5 | 3.5 | 6.9 | 17.3 | 31.2 | 38.1 | 52.0 | 55.4 | 58.9 | 52.0 | 41.6 |
| 82.5° | 3.5 | 3.5 | 6.9 | 17.3 | 24.2 | 31.2 | 41.6 | 48.5 | 52.0 | 45.0 | 41.6 |
| 85° | 0.0 | 3.5 | 6.9 | 13.9 | 20.8 | 27.7 | 27.7 | 20.8 | 17.3 | 10.4 | 13.9 |
| 87.5° | 0.0 | 0.0 | 3.5 | 3.5 | 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)