

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: P532229

Luminaire Tested: **GALN-SA7C-750-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532229
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-SA7C-750-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25542 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

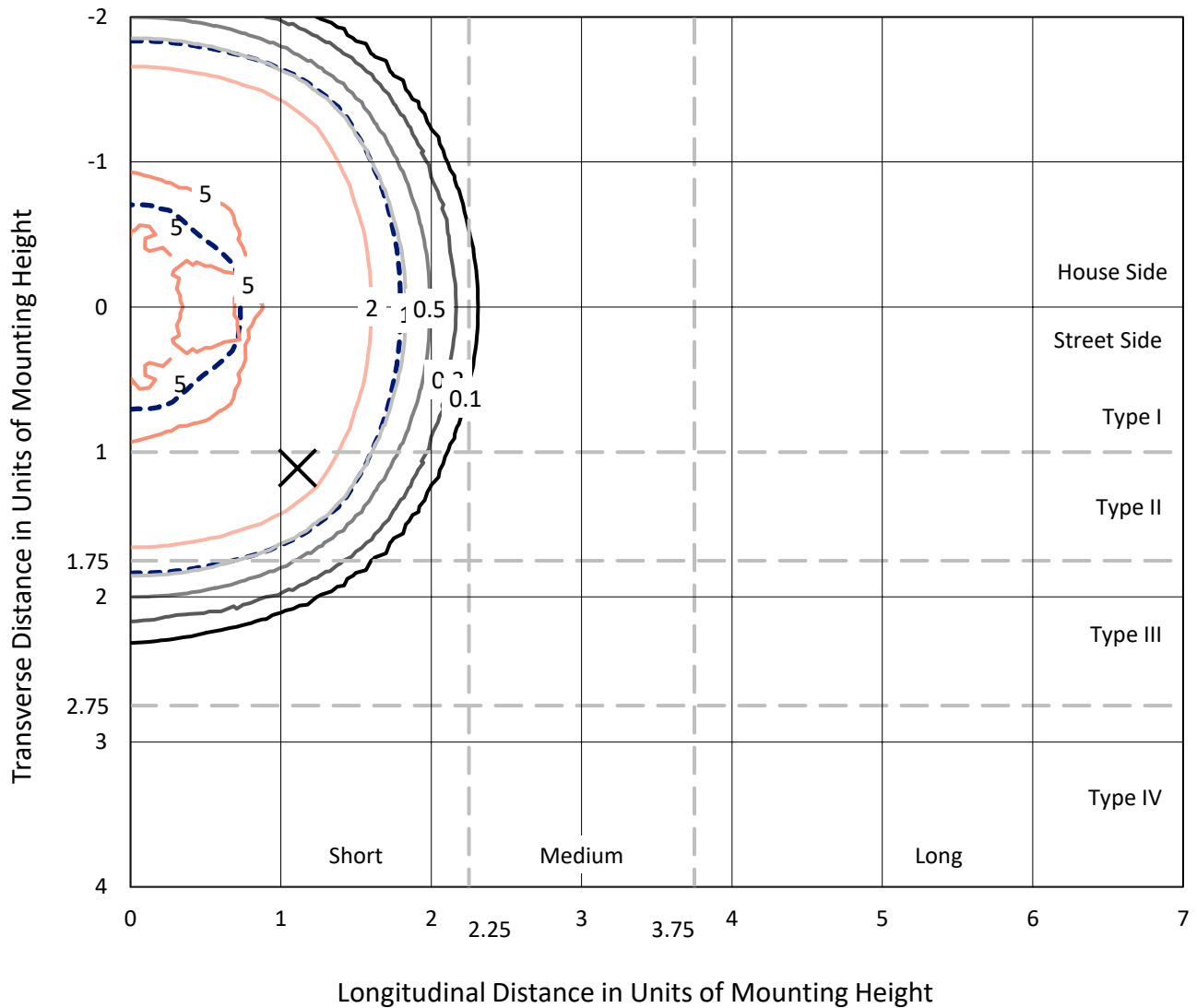
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

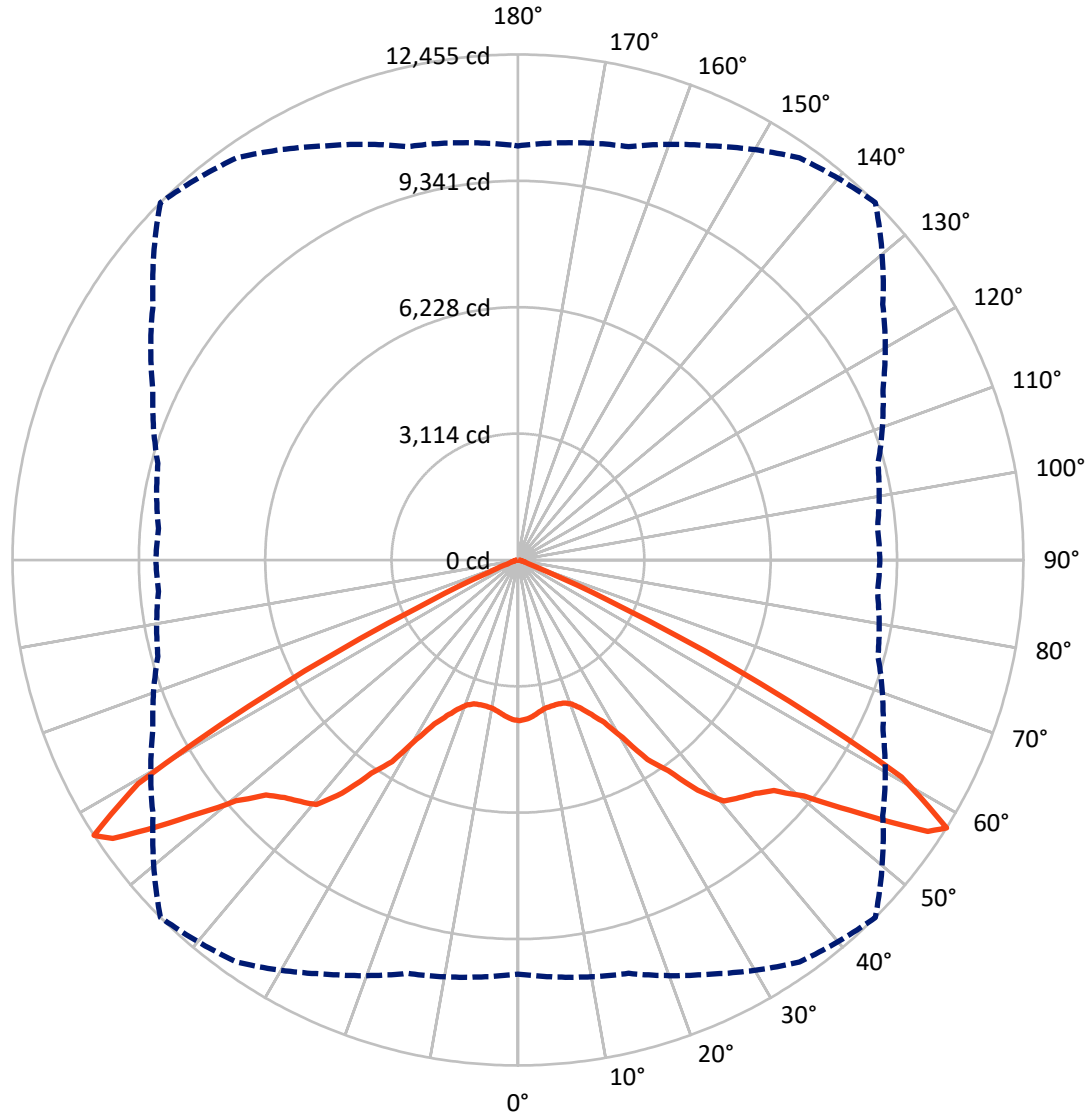
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12771.0 | 0.0 | 12771.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12771.0 | 0.0 | 12771.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25542.0 | 0.0 | 25542.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 364.1 | 1.4 |
| 10°-20° | 1052.3 | 4.1 |
| 20°-30° | 1942.5 | 7.6 |
| 30°-40° | 3820.1 | 15.0 |
| 40°-50° | 6221.9 | 24.4 |
| 50°-60° | 8873.2 | 34.7 |
| 60°-70° | 3072.1 | 12.0 |
| 70°-80° | 164.8 | 0.6 |
| 80°-90° | 31.0 | 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° | 25542.0 | 100.0 |
| 0°-180° | 25542.0 | 100.0 |

Coefficient of Utilization



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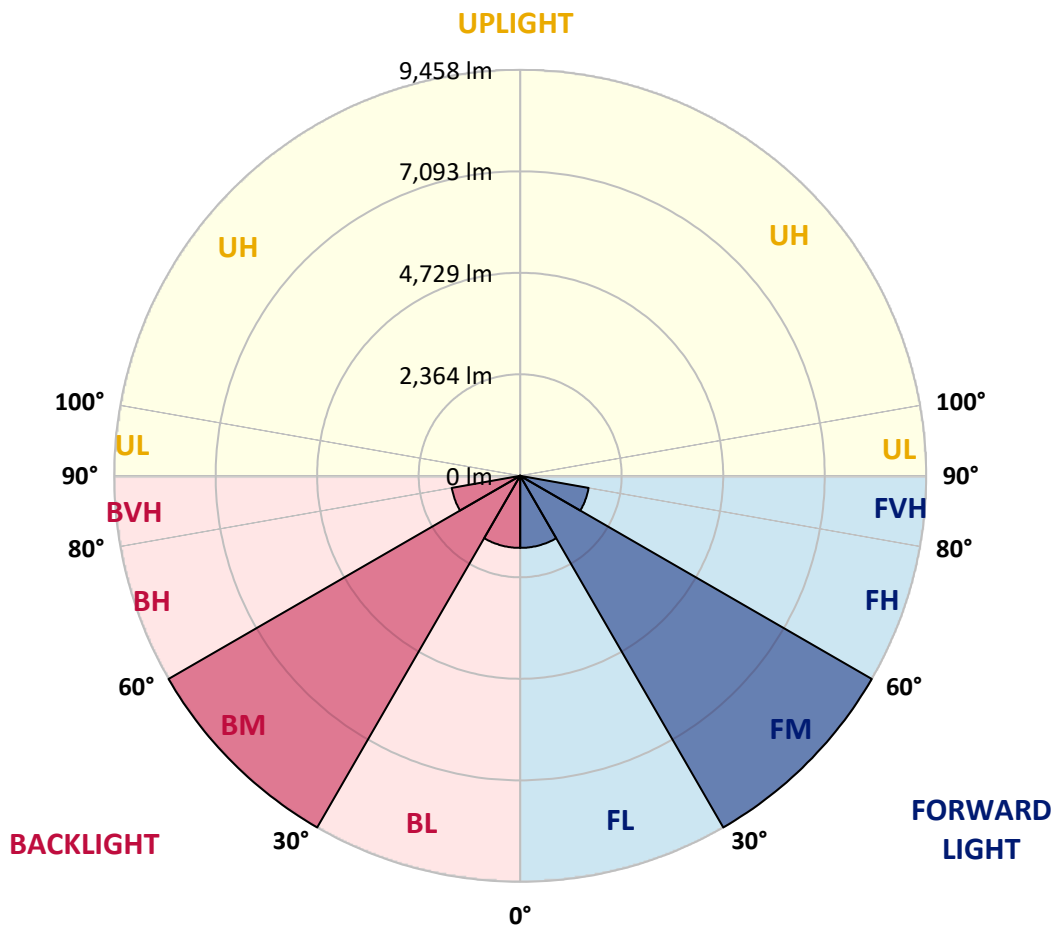
CATALOG NUMBER: GALN-SA7C-750-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1679.4 | 6.6 | | | |
| FM (30°-60°) | 9457.6 | 37.0 | | | |
| FH (60°-80°) | 1618.5 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 15.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1679.4 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 9457.6 | 37.0 | B5 | | |
| BH (60°-80°) | 1618.5 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 15.5 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 | 3961.8 |
| 2.5° | 3951.2 | 3972.5 | 3945.9 | 3935.2 | 3929.9 | 3929.9 | 3913.9 | 3913.9 | 3908.6 | 3913.9 | 3892.6 |
| 5° | 3887.3 | 3908.6 | 3908.6 | 3903.3 | 3871.3 | 3866.0 | 3850.0 | 3839.4 | 3844.7 | 3823.4 | 3839.4 |
| 7.5° | 3823.4 | 3839.4 | 3818.1 | 3812.7 | 3802.1 | 3780.8 | 3775.5 | 3727.5 | 3732.9 | 3732.9 | 3743.5 |
| 10° | 3812.7 | 3807.4 | 3775.5 | 3748.8 | 3716.9 | 3711.6 | 3695.6 | 3684.9 | 3684.9 | 3679.6 | 3695.6 |
| 12.5° | 3812.7 | 3786.1 | 3780.8 | 3722.2 | 3669.0 | 3690.3 | 3647.7 | 3621.0 | 3658.3 | 3669.0 | 3690.3 |
| 15° | 3807.4 | 3834.0 | 3743.5 | 3716.9 | 3679.6 | 3684.9 | 3647.7 | 3621.0 | 3642.3 | 3653.0 | 3669.0 |
| 17.5° | 3839.4 | 3823.4 | 3796.8 | 3743.5 | 3727.5 | 3706.2 | 3658.3 | 3637.0 | 3637.0 | 3663.6 | 3669.0 |
| 20° | 3924.6 | 3882.0 | 3828.7 | 3802.1 | 3818.1 | 3791.4 | 3732.9 | 3653.0 | 3674.3 | 3695.6 | 3711.6 |
| 22.5° | 4004.4 | 3972.5 | 3935.2 | 3919.2 | 4009.8 | 3967.2 | 3866.0 | 3775.5 | 3743.5 | 3780.8 | 3807.4 |
| 25° | 4158.9 | 4158.9 | 4089.6 | 4110.9 | 4212.1 | 4217.4 | 4100.3 | 3940.5 | 3919.2 | 3935.2 | 3945.9 |
| 27.5° | 4473.0 | 4489.0 | 4430.4 | 4451.7 | 4494.3 | 4531.6 | 4430.4 | 4297.3 | 4249.4 | 4244.1 | 4260.0 |
| 30° | 4813.8 | 4845.8 | 4840.5 | 4931.0 | 5053.5 | 5074.8 | 4925.7 | 4707.3 | 4563.6 | 4536.9 | 4558.2 |
| 32.5° | 5261.1 | 5277.1 | 5266.5 | 5373.0 | 5703.1 | 5857.5 | 5468.8 | 5160.0 | 4968.3 | 5016.2 | 4968.3 |
| 35° | 6102.5 | 6086.5 | 5969.4 | 5990.7 | 6262.3 | 6374.1 | 6001.3 | 5804.3 | 5713.8 | 5809.6 | 5788.3 |
| 37.5° | 6826.7 | 6768.1 | 6672.3 | 6810.7 | 7093.0 | 7194.1 | 6805.4 | 6459.3 | 6294.2 | 6454.0 | 6523.2 |
| 40° | 7439.1 | 7290.0 | 7156.9 | 7295.3 | 7673.4 | 7811.8 | 7242.1 | 6959.8 | 6895.9 | 7013.1 | 7162.2 |
| 42.5° | 7955.6 | 7859.8 | 7684.0 | 7694.7 | 7945.0 | 8008.9 | 7550.9 | 7385.8 | 7321.9 | 7508.3 | 7582.9 |
| 45° | 8323.0 | 8232.5 | 8067.4 | 8056.8 | 8248.5 | 8205.9 | 7795.9 | 7684.0 | 7721.3 | 7843.8 | 7881.1 |
| 47.5° | 8509.4 | 8557.3 | 8461.5 | 8488.1 | 8589.3 | 8488.1 | 8163.3 | 8163.3 | 8078.1 | 8152.6 | 8115.4 |
| 50° | 9047.2 | 8898.1 | 9020.6 | 9020.6 | 9127.1 | 9137.8 | 8812.9 | 8695.8 | 8466.8 | 8339.0 | 8339.0 |
| 52.5° | 9675.6 | 9686.3 | 9734.2 | 9909.9 | 10091.0 | 10245.4 | 9782.1 | 9281.5 | 8898.1 | 8733.1 | 8711.8 |
| 55° | 10192.1 | 10298.6 | 10490.3 | 10820.5 | 11342.3 | 11555.3 | 10756.6 | 9862.0 | 9393.4 | 9137.8 | 9084.5 |
| 56° | 10474.4 | 10373.2 | 10703.3 | 11156.0 | 11837.6 | 12114.5 | 10916.3 | 9979.1 | 9462.6 | 9175.0 | 9169.7 |
| 57.5° | 10202.8 | 10314.6 | 10543.6 | 11257.1 | 12093.2 | 12455.3 | 10974.9 | 9925.9 | 9185.7 | 8892.8 | 8919.4 |
| 60° | 8056.8 | 8163.3 | 8472.1 | 9270.9 | 10580.9 | 10863.1 | 9286.9 | 8184.6 | 7524.3 | 7103.6 | 7108.9 |
| 62.5° | 4558.2 | 4638.1 | 4877.7 | 5617.9 | 6432.7 | 6704.2 | 5788.3 | 5053.5 | 4595.5 | 4361.2 | 4286.7 |
| 65° | 1677.4 | 1645.4 | 1682.7 | 2060.8 | 2561.3 | 2790.3 | 2406.9 | 2034.2 | 1794.5 | 1709.3 | 1677.4 |
| 67.5° | 628.4 | 580.4 | 543.2 | 580.4 | 729.5 | 772.1 | 708.2 | 591.1 | 553.8 | 569.8 | 580.4 |
| 70° | 388.7 | 367.4 | 292.9 | 276.9 | 271.6 | 266.3 | 282.2 | 298.2 | 340.8 | 399.4 | 410.0 |
| 72.5° | 271.6 | 255.6 | 207.7 | 197.0 | 186.4 | 181.1 | 207.7 | 229.0 | 266.3 | 308.9 | 314.2 |
| 75° | 106.5 | 111.8 | 106.5 | 117.2 | 122.5 | 127.8 | 149.1 | 165.1 | 181.1 | 181.1 | 175.7 |
| 77.5° | 21.3 | 21.3 | 32.0 | 42.6 | 53.3 | 69.2 | 101.2 | 117.2 | 122.5 | 117.2 | 101.2 |
| 80° | 0.0 | 0.0 | 10.7 | 21.3 | 42.6 | 58.6 | 90.5 | 101.2 | 111.8 | 101.2 | 79.9 |
| 82.5° | 0.0 | 0.0 | 10.7 | 26.6 | 42.6 | 53.3 | 85.2 | 106.5 | 122.5 | 111.8 | 85.2 |
| 85° | 0.0 | 0.0 | 10.7 | 21.3 | 32.0 | 37.3 | 37.3 | 26.6 | 26.6 | 16.0 | 10.7 |
| 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)