

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: P530587

Luminaire Tested: **GALN-SA5D-750-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530587
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-SA5D-750-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA 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: 23250 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

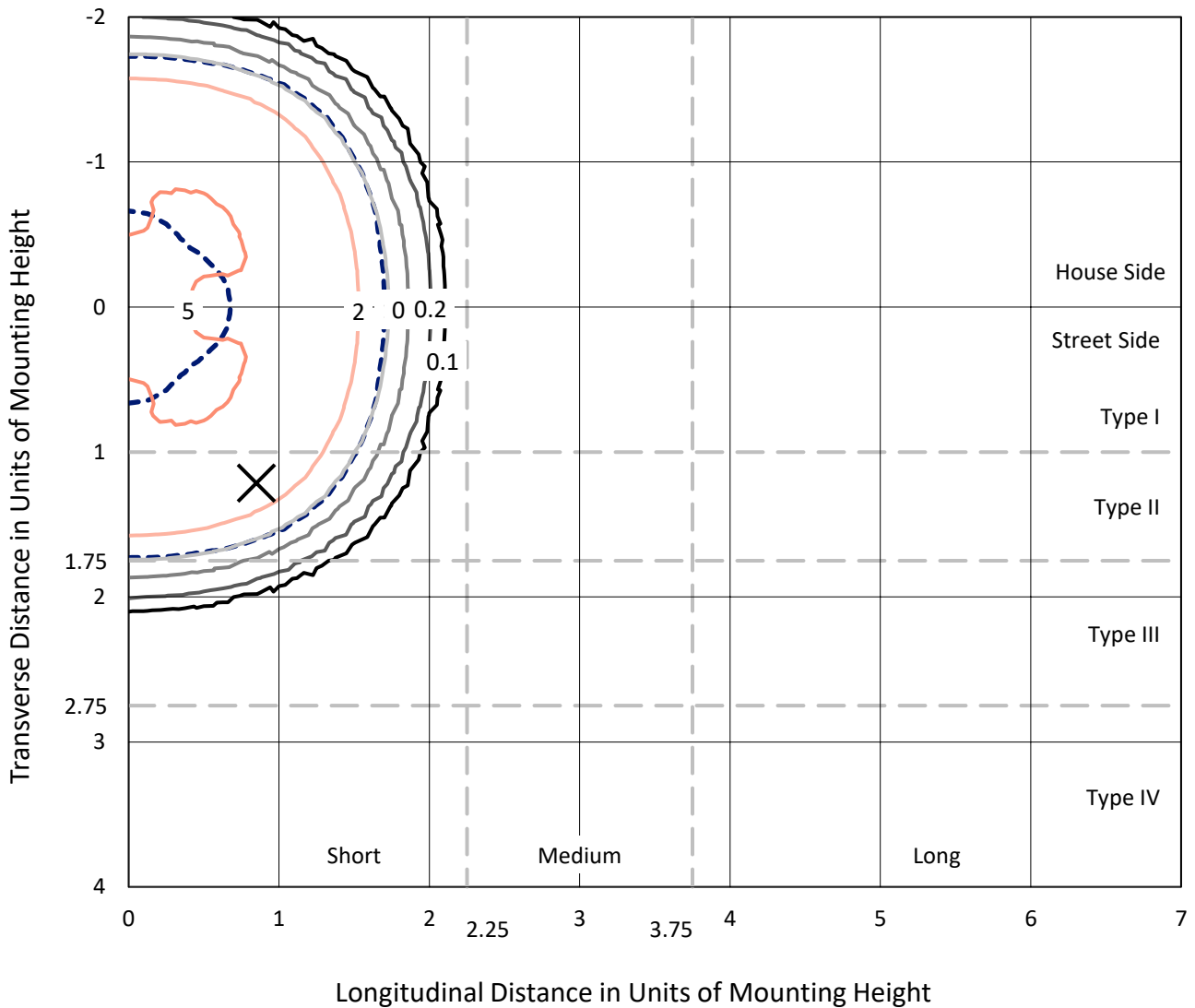
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

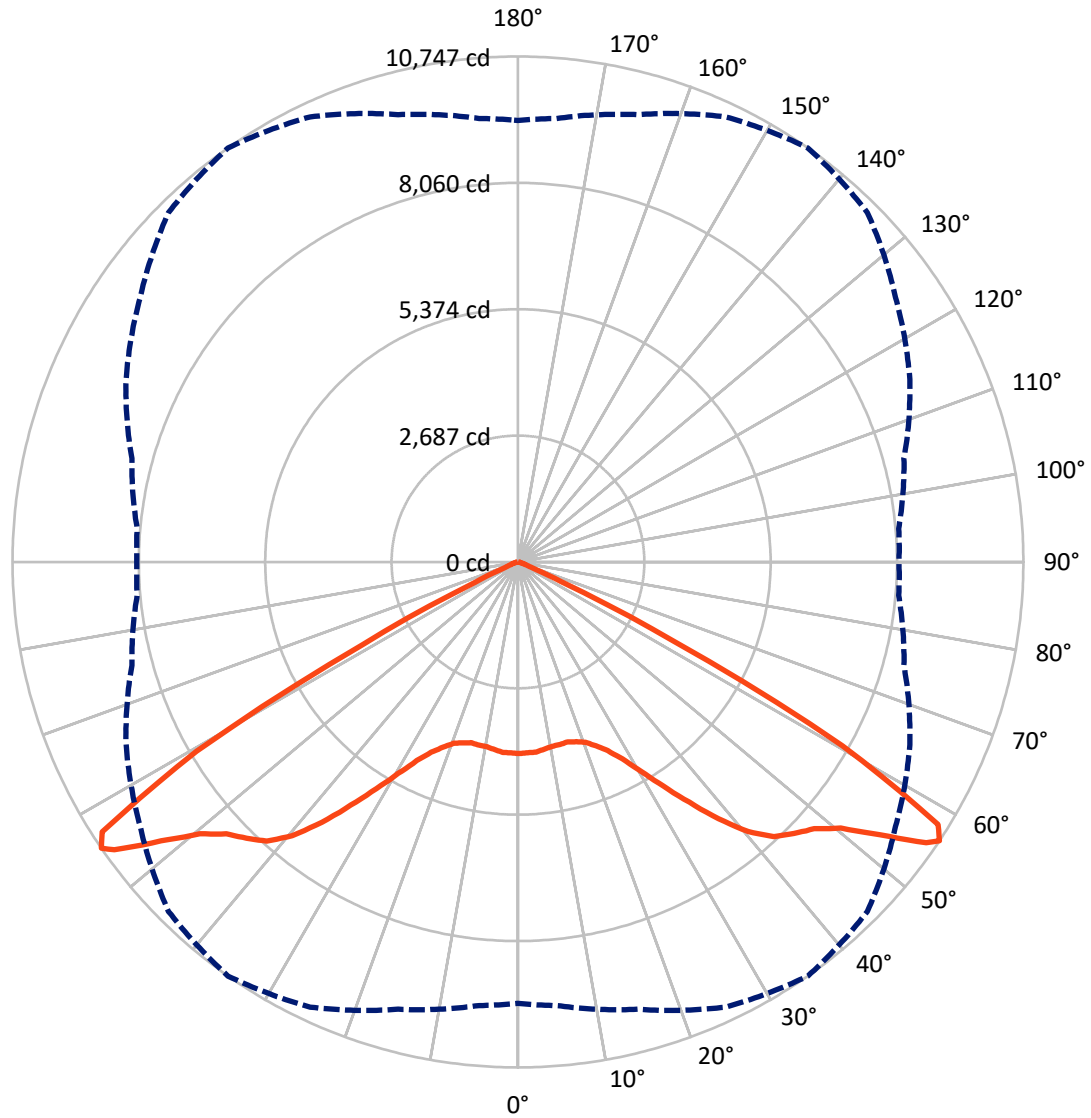
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 11625.0 | 0.0 | 11625.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11625.0 | 0.0 | 11625.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23250.0 | 0.0 | 23250.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 382.9 | 1.6 |
| 10°-20° | 1117.8 | 4.8 |
| 20°-30° | 2024.2 | 8.7 |
| 30°-40° | 3753.7 | 16.1 |
| 40°-50° | 6161.4 | 26.5 |
| 50°-60° | 7937.7 | 34.1 |
| 60°-70° | 1749.4 | 7.5 |
| 70°-80° | 101.5 | 0.4 |
| 80°-90° | 21.4 | 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° | 23250.0 | 100.0 |
| 0°-180° | 23250.0 | 100.0 |

Coefficient of Utilization



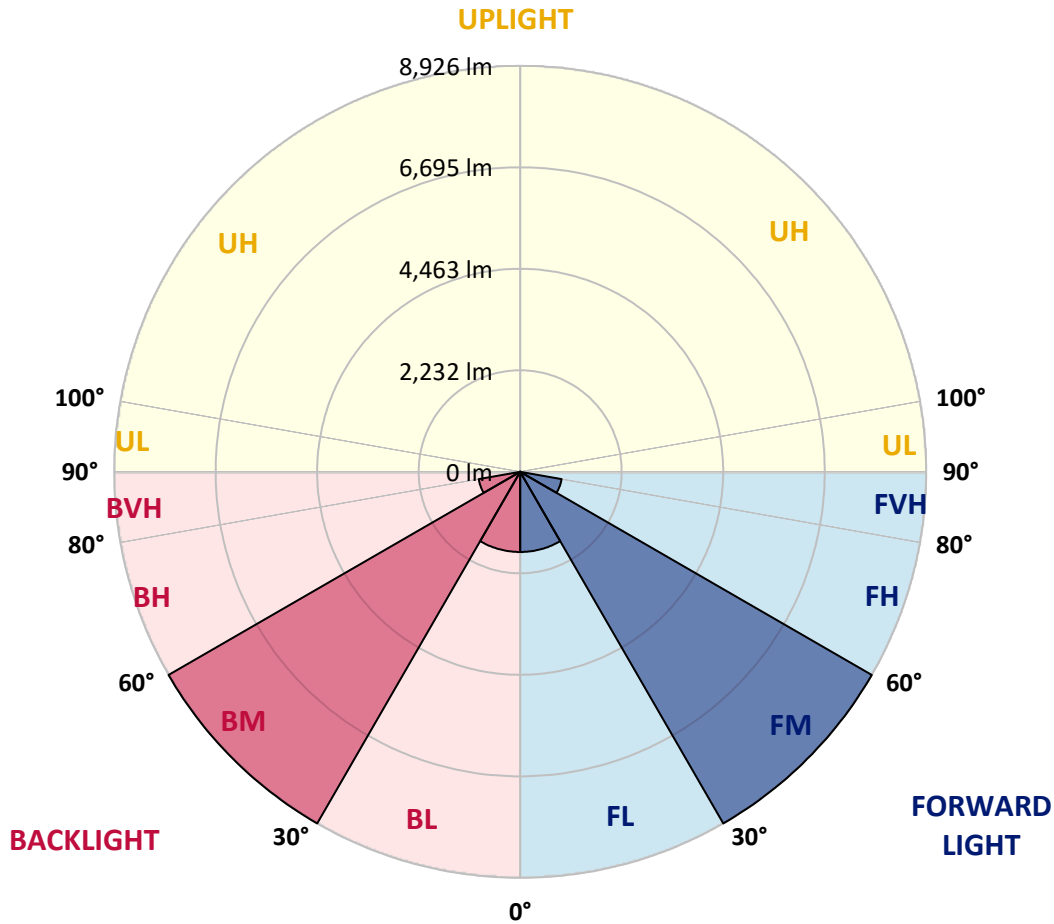
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1762.5 | 7.6 | | | |
| FM (30°-60°) | 8926.4 | 38.4 | | | |
| FH (60°-80°) | 925.4 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 10.7 | 0.0 | | | G1/100 |
| BL (0°-30°) | 1762.5 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 8926.4 | 38.4 | B5 | | |
| BH (60°-80°) | 925.4 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 10.7 | 0.0 | | | 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° | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 | 4073.9 |
| 2.5° | 4082.3 | 4082.3 | 4086.5 | 4090.8 | 4061.3 | 4048.6 | 4052.8 | 4044.4 | 4040.2 | 4052.8 | 4052.8 |
| 5° | 4069.7 | 4069.7 | 4057.0 | 4061.3 | 4061.3 | 4023.3 | 4023.3 | 4031.8 | 4031.8 | 4006.5 | 3998.1 |
| 7.5° | 4036.0 | 4027.6 | 4010.7 | 4031.8 | 4019.1 | 4019.1 | 3989.6 | 3968.6 | 3960.2 | 3977.0 | 3960.2 |
| 10° | 3964.4 | 3968.6 | 3985.4 | 3993.9 | 3985.4 | 4010.7 | 3960.2 | 3930.7 | 3901.2 | 3888.5 | 3888.5 |
| 12.5° | 3930.7 | 3955.9 | 3930.7 | 3951.7 | 3981.2 | 3960.2 | 3930.7 | 3909.6 | 3867.5 | 3850.6 | 3850.6 |
| 15° | 3926.4 | 3943.3 | 3951.7 | 3981.2 | 3968.6 | 3977.0 | 3918.0 | 3892.7 | 3829.6 | 3800.1 | 3787.4 |
| 17.5° | 3922.2 | 3943.3 | 3955.9 | 4010.7 | 4019.1 | 4023.3 | 3977.0 | 3901.2 | 3846.4 | 3816.9 | 3787.4 |
| 20° | 3968.6 | 3977.0 | 4002.3 | 4057.0 | 4090.8 | 4149.7 | 4065.5 | 3985.4 | 3867.5 | 3833.8 | 3821.1 |
| 22.5° | 4027.6 | 4069.7 | 4095.0 | 4153.9 | 4242.4 | 4293.0 | 4183.4 | 4082.3 | 3960.2 | 3918.0 | 3867.5 |
| 25° | 4217.1 | 4208.7 | 4250.8 | 4373.0 | 4444.6 | 4482.6 | 4394.1 | 4246.6 | 4086.5 | 4036.0 | 4044.4 |
| 27.5° | 4453.1 | 4461.5 | 4499.4 | 4634.2 | 4739.5 | 4798.5 | 4693.2 | 4499.4 | 4343.5 | 4259.3 | 4250.8 |
| 30° | 4760.6 | 4752.2 | 4794.3 | 4975.5 | 5165.0 | 5253.5 | 5068.2 | 4840.7 | 4689.0 | 4579.5 | 4604.7 |
| 32.5° | 5085.0 | 5089.2 | 5207.2 | 5371.5 | 5679.0 | 5851.8 | 5552.6 | 5274.6 | 5047.1 | 4971.3 | 4933.3 |
| 35° | 5565.3 | 5586.3 | 5679.0 | 5931.8 | 6273.0 | 6496.3 | 6167.7 | 5834.9 | 5573.7 | 5434.7 | 5451.5 |
| 37.5° | 6159.3 | 6138.2 | 6294.1 | 6568.0 | 6926.1 | 7090.4 | 6812.3 | 6433.1 | 6167.7 | 6075.0 | 6134.0 |
| 40° | 6791.2 | 6812.3 | 6892.3 | 7140.9 | 7541.1 | 7650.7 | 7237.8 | 7031.4 | 6799.7 | 6753.3 | 6824.9 |
| 42.5° | 7423.2 | 7410.5 | 7469.5 | 7692.8 | 7983.5 | 7907.7 | 7663.3 | 7541.1 | 7376.8 | 7284.2 | 7381.0 |
| 45° | 7886.6 | 7865.5 | 7975.1 | 8126.7 | 8232.1 | 8088.8 | 7979.3 | 7937.2 | 7852.9 | 7751.8 | 7840.3 |
| 47.5° | 8337.4 | 8320.5 | 8425.9 | 8468.0 | 8476.4 | 8286.8 | 8307.9 | 8383.7 | 8173.1 | 7962.4 | 8063.5 |
| 50° | 8720.8 | 8691.3 | 8821.9 | 8914.6 | 8893.5 | 8590.2 | 8666.0 | 8590.2 | 8261.5 | 8013.0 | 7975.1 |
| 52.5° | 9361.1 | 9373.8 | 9512.8 | 9681.3 | 9630.8 | 9378.0 | 9268.4 | 8923.0 | 8501.7 | 8278.4 | 8147.8 |
| 55° | 9765.6 | 9702.4 | 9942.5 | 10477.5 | 10536.5 | 10275.3 | 9790.8 | 9281.1 | 8649.1 | 8375.3 | 8341.6 |
| 56° | 9386.4 | 9466.4 | 9845.6 | 10443.8 | 10747.2 | 10507.0 | 9803.5 | 9192.6 | 8497.5 | 8126.7 | 8101.5 |
| 57.5° | 8421.6 | 8379.5 | 8893.5 | 9710.8 | 10536.5 | 10435.4 | 9458.0 | 8560.7 | 7751.8 | 7334.7 | 7284.2 |
| 60° | 5240.9 | 5363.1 | 5813.8 | 6824.9 | 7928.7 | 7979.3 | 7010.3 | 6239.3 | 5295.6 | 4924.9 | 5013.4 |
| 62.5° | 2051.7 | 1946.4 | 2228.6 | 2982.8 | 3741.1 | 3909.6 | 3543.1 | 2944.8 | 2418.2 | 2051.7 | 2026.4 |
| 65° | 476.1 | 463.4 | 522.4 | 720.4 | 1006.9 | 1167.0 | 1108.0 | 796.2 | 585.6 | 556.1 | 514.0 |
| 67.5° | 269.6 | 269.6 | 257.0 | 257.0 | 282.3 | 299.1 | 286.5 | 282.3 | 294.9 | 307.5 | 303.3 |
| 70° | 189.6 | 185.4 | 176.9 | 181.2 | 172.7 | 172.7 | 185.4 | 206.4 | 223.3 | 223.3 | 227.5 |
| 72.5° | 113.7 | 113.7 | 113.7 | 126.4 | 126.4 | 126.4 | 139.0 | 155.9 | 160.1 | 155.9 | 151.7 |
| 75° | 50.6 | 50.6 | 59.0 | 71.6 | 80.0 | 84.3 | 96.9 | 105.3 | 113.7 | 105.3 | 96.9 |
| 77.5° | 12.6 | 12.6 | 21.1 | 29.5 | 37.9 | 46.3 | 63.2 | 75.8 | 80.0 | 75.8 | 63.2 |
| 80° | 4.2 | 4.2 | 8.4 | 21.1 | 37.9 | 46.3 | 63.2 | 67.4 | 71.6 | 63.2 | 50.6 |
| 82.5° | 4.2 | 4.2 | 8.4 | 21.1 | 29.5 | 37.9 | 50.6 | 59.0 | 63.2 | 54.8 | 50.6 |
| 85° | 0.0 | 4.2 | 8.4 | 16.9 | 25.3 | 33.7 | 33.7 | 25.3 | 21.1 | 12.6 | 16.9 |
| 87.5° | 0.0 | 0.0 | 4.2 | 4.2 | 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)