

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: P530353

Luminaire Tested: **GALN-SA5C-750-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530353
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-SA5C-750-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA 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: 21130 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

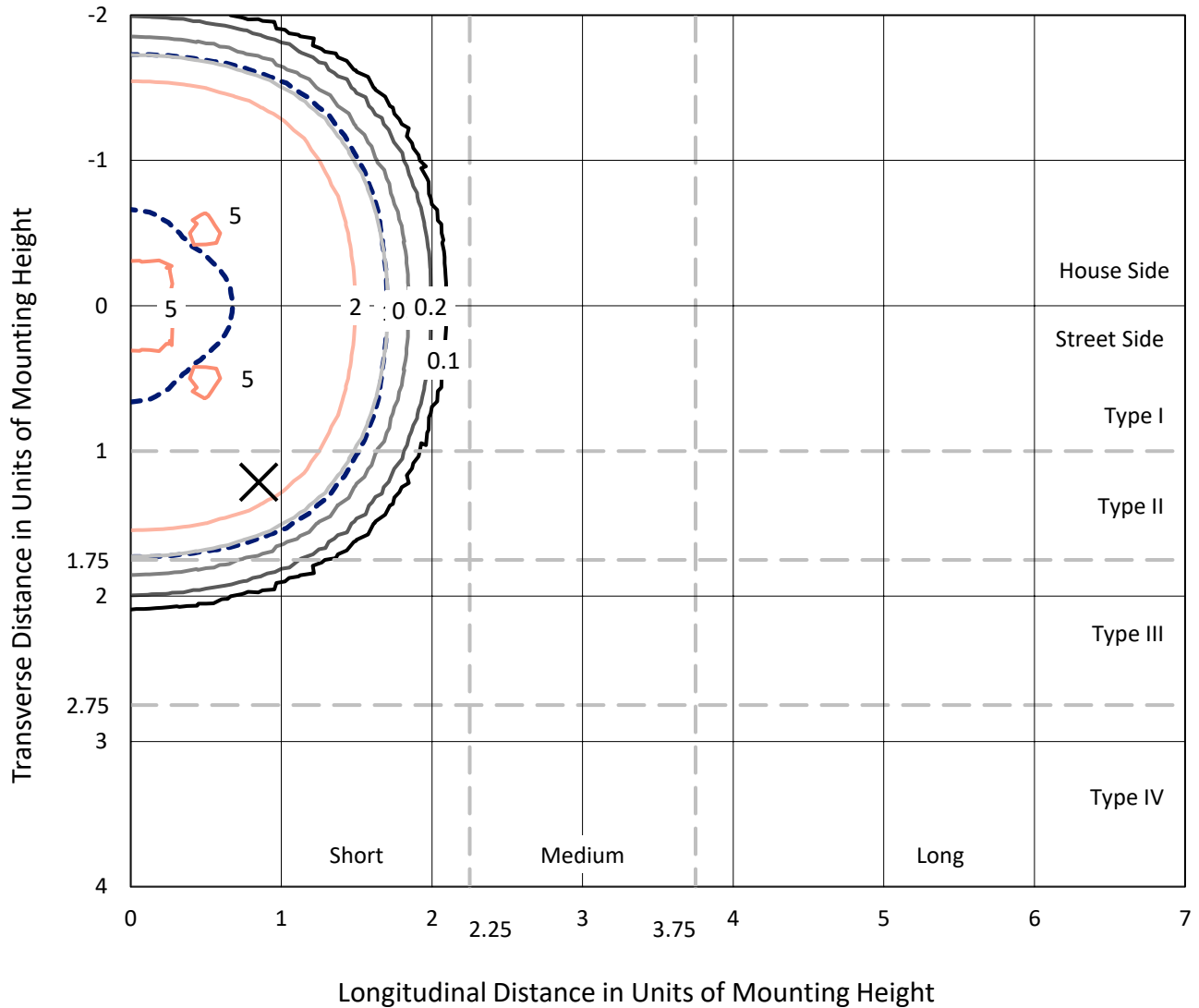
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

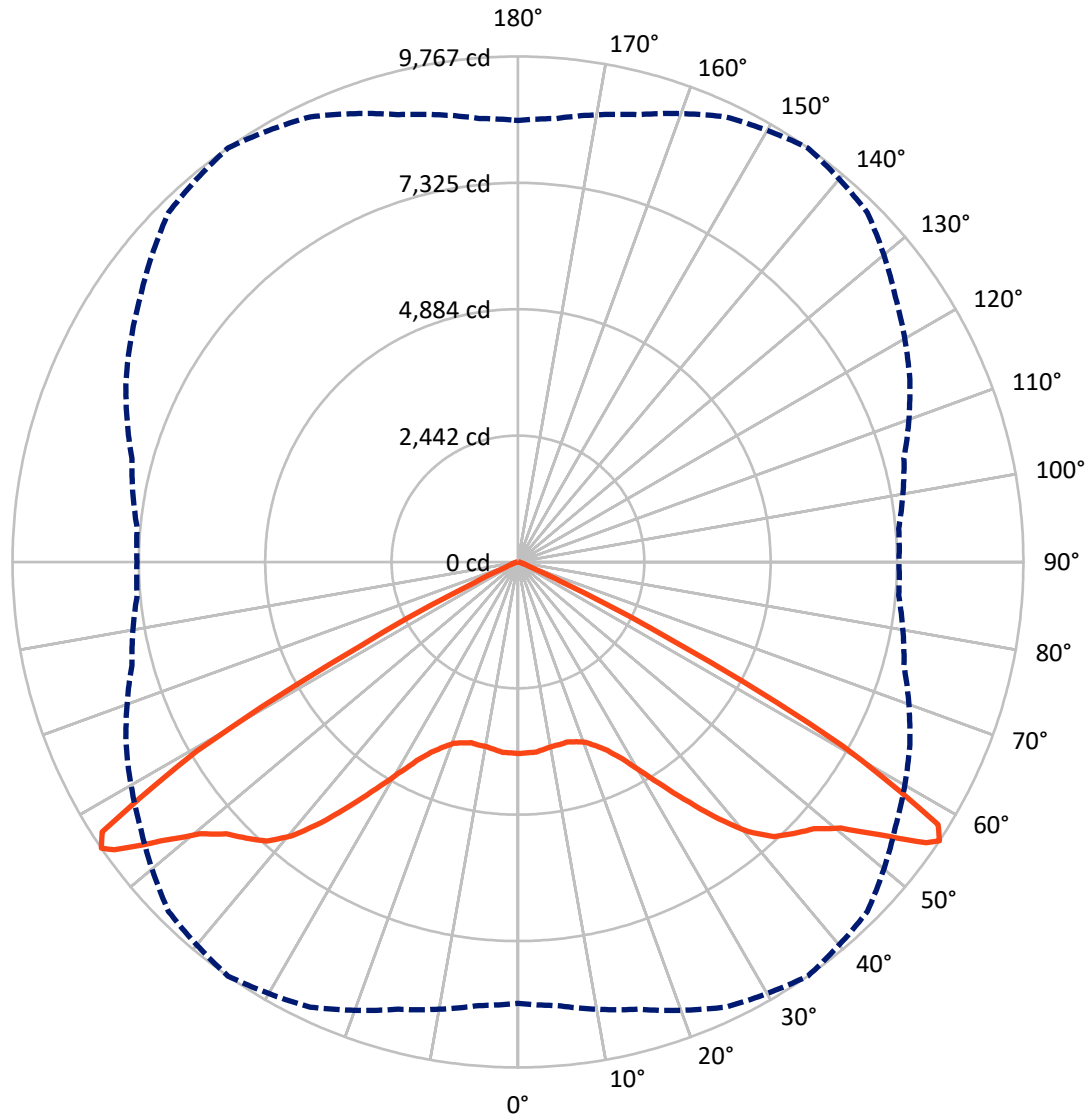
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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 | 10565.0 | 0.0 | 10565.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10565.0 | 0.0 | 10565.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21130.0 | 0.0 | 21130.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 348.0 | 1.6 |
| 10°-20° | 1015.9 | 4.8 |
| 20°-30° | 1839.7 | 8.7 |
| 30°-40° | 3411.4 | 16.1 |
| 40°-50° | 5599.6 | 26.5 |
| 50°-60° | 7213.9 | 34.1 |
| 60°-70° | 1589.9 | 7.5 |
| 70°-80° | 92.2 | 0.4 |
| 80°-90° | 19.4 | 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° | 21130.0 | 100.0 |
| 0°-180° | 21130.0 | 100.0 |

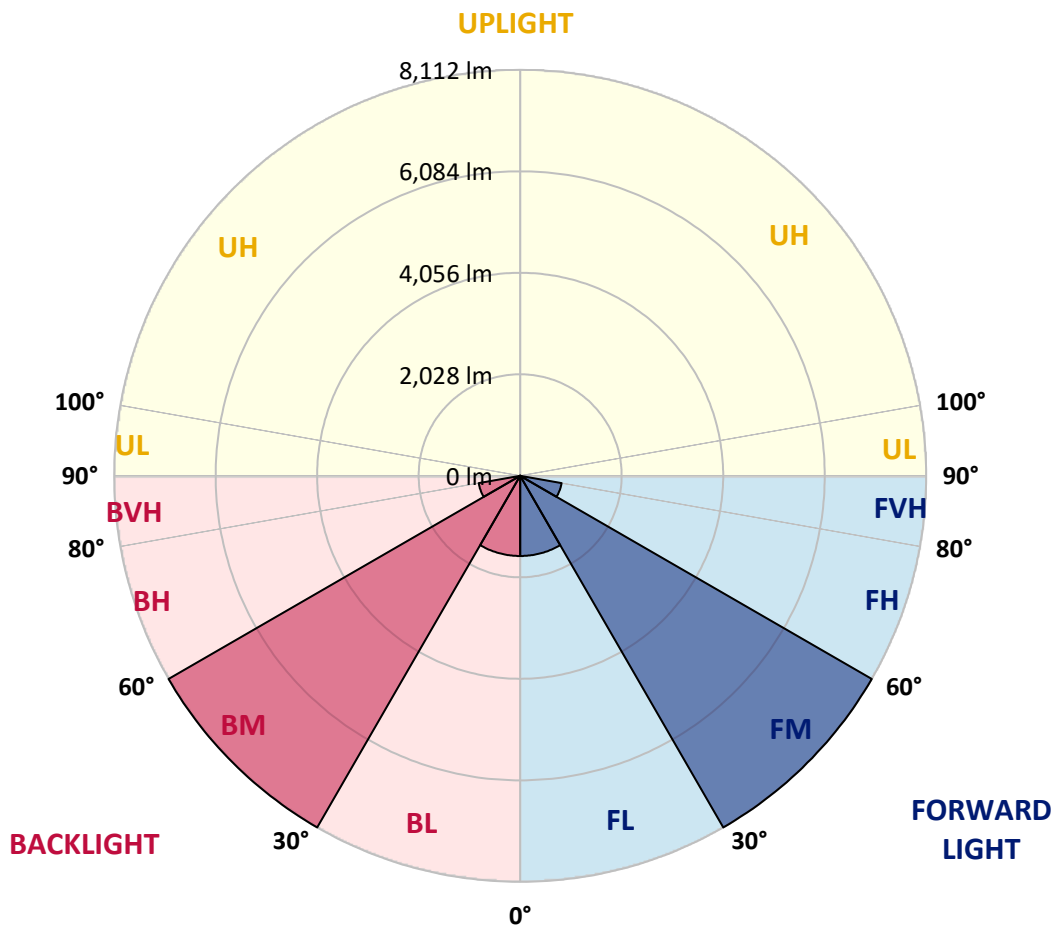


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1601.8 | 7.6 | | | |
| FM (30°-60°) | 8112.5 | 38.4 | | | |
| FH (60°-80°) | 841.1 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 9.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1601.8 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 8112.5 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 841.1 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 9.7 | 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° | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 | 3702.4 |
| 2.5° | 3710.1 | 3710.1 | 3713.9 | 3717.7 | 3690.9 | 3679.5 | 3683.3 | 3675.6 | 3671.8 | 3683.3 | 3683.3 |
| 5° | 3698.6 | 3698.6 | 3687.1 | 3690.9 | 3690.9 | 3656.5 | 3656.5 | 3664.1 | 3664.1 | 3641.2 | 3633.5 |
| 7.5° | 3668.0 | 3660.3 | 3645.0 | 3664.1 | 3652.7 | 3652.7 | 3625.9 | 3606.7 | 3599.1 | 3614.4 | 3599.1 |
| 10° | 3602.9 | 3606.7 | 3622.0 | 3629.7 | 3622.0 | 3645.0 | 3599.1 | 3572.3 | 3545.5 | 3534.0 | 3534.0 |
| 12.5° | 3572.3 | 3595.2 | 3572.3 | 3591.4 | 3618.2 | 3599.1 | 3572.3 | 3553.1 | 3514.8 | 3499.5 | 3499.5 |
| 15° | 3568.4 | 3583.7 | 3591.4 | 3618.2 | 3606.7 | 3614.4 | 3560.8 | 3537.8 | 3480.4 | 3453.6 | 3442.1 |
| 17.5° | 3564.6 | 3583.7 | 3595.2 | 3645.0 | 3652.7 | 3656.5 | 3614.4 | 3545.5 | 3495.7 | 3468.9 | 3442.1 |
| 20° | 3606.7 | 3614.4 | 3637.3 | 3687.1 | 3717.7 | 3771.3 | 3694.8 | 3622.0 | 3514.8 | 3484.2 | 3472.7 |
| 22.5° | 3660.3 | 3698.6 | 3721.6 | 3775.2 | 3855.6 | 3901.5 | 3802.0 | 3710.1 | 3599.1 | 3560.8 | 3514.8 |
| 25° | 3832.6 | 3825.0 | 3863.2 | 3974.3 | 4039.4 | 4073.8 | 3993.4 | 3859.4 | 3713.9 | 3668.0 | 3675.6 |
| 27.5° | 4047.0 | 4054.7 | 4089.1 | 4211.7 | 4307.4 | 4361.0 | 4265.3 | 4089.1 | 3947.5 | 3870.9 | 3863.2 |
| 30° | 4326.5 | 4318.9 | 4357.2 | 4521.8 | 4694.1 | 4774.5 | 4606.0 | 4399.3 | 4261.4 | 4161.9 | 4184.9 |
| 32.5° | 4621.3 | 4625.2 | 4732.4 | 4881.7 | 5161.2 | 5318.2 | 5046.3 | 4793.6 | 4586.9 | 4518.0 | 4483.5 |
| 35° | 5057.8 | 5077.0 | 5161.2 | 5390.9 | 5701.1 | 5904.0 | 5605.3 | 5302.9 | 5065.5 | 4939.1 | 4954.4 |
| 37.5° | 5597.7 | 5578.5 | 5720.2 | 5969.1 | 6294.5 | 6443.8 | 6191.1 | 5846.5 | 5605.3 | 5521.1 | 5574.7 |
| 40° | 6172.0 | 6191.1 | 6263.9 | 6489.8 | 6853.5 | 6953.1 | 6577.8 | 6390.2 | 6179.7 | 6137.5 | 6202.6 |
| 42.5° | 6746.3 | 6734.8 | 6788.4 | 6991.4 | 7255.5 | 7186.6 | 6964.6 | 6853.5 | 6704.2 | 6620.0 | 6708.0 |
| 45° | 7167.5 | 7148.3 | 7247.9 | 7385.7 | 7481.4 | 7351.3 | 7251.7 | 7213.4 | 7136.8 | 7045.0 | 7125.4 |
| 47.5° | 7577.2 | 7561.8 | 7657.6 | 7695.8 | 7703.5 | 7531.2 | 7550.4 | 7619.3 | 7427.8 | 7236.4 | 7328.3 |
| 50° | 7925.6 | 7898.8 | 8017.5 | 8101.7 | 8082.6 | 7806.9 | 7875.8 | 7806.9 | 7508.2 | 7282.3 | 7247.9 |
| 52.5° | 8507.5 | 8519.0 | 8645.4 | 8798.5 | 8752.6 | 8522.9 | 8423.3 | 8109.4 | 7726.5 | 7523.6 | 7404.9 |
| 55° | 8875.1 | 8817.7 | 9035.9 | 9522.2 | 9575.8 | 9338.4 | 8898.1 | 8434.8 | 7860.5 | 7611.6 | 7581.0 |
| 56° | 8530.5 | 8603.3 | 8947.9 | 9491.5 | 9767.2 | 9549.0 | 8909.6 | 8354.4 | 7722.6 | 7385.7 | 7362.7 |
| 57.5° | 7653.7 | 7615.4 | 8082.6 | 8825.3 | 9575.8 | 9483.9 | 8595.6 | 7780.1 | 7045.0 | 6665.9 | 6620.0 |
| 60° | 4763.0 | 4874.0 | 5283.7 | 6202.6 | 7205.8 | 7251.7 | 6371.1 | 5670.4 | 4812.8 | 4475.8 | 4556.2 |
| 62.5° | 1864.6 | 1768.9 | 2025.4 | 2710.8 | 3400.0 | 3553.1 | 3220.0 | 2676.3 | 2197.7 | 1864.6 | 1841.6 |
| 65° | 432.7 | 421.2 | 474.8 | 654.7 | 915.1 | 1060.6 | 1007.0 | 723.6 | 532.2 | 505.4 | 467.1 |
| 67.5° | 245.0 | 245.0 | 233.6 | 233.6 | 256.5 | 271.8 | 260.4 | 256.5 | 268.0 | 279.5 | 275.7 |
| 70° | 172.3 | 168.5 | 160.8 | 164.6 | 157.0 | 157.0 | 168.5 | 187.6 | 202.9 | 202.9 | 206.8 |
| 72.5° | 103.4 | 103.4 | 103.4 | 114.9 | 114.9 | 114.9 | 126.3 | 141.7 | 145.5 | 141.7 | 137.8 |
| 75° | 45.9 | 45.9 | 53.6 | 65.1 | 72.7 | 76.6 | 88.1 | 95.7 | 103.4 | 95.7 | 88.1 |
| 77.5° | 11.5 | 11.5 | 19.1 | 26.8 | 34.5 | 42.1 | 57.4 | 68.9 | 72.7 | 68.9 | 57.4 |
| 80° | 3.8 | 3.8 | 7.7 | 19.1 | 34.5 | 42.1 | 57.4 | 61.3 | 65.1 | 57.4 | 45.9 |
| 82.5° | 3.8 | 3.8 | 7.7 | 19.1 | 26.8 | 34.5 | 45.9 | 53.6 | 57.4 | 49.8 | 45.9 |
| 85° | 0.0 | 3.8 | 7.7 | 15.3 | 23.0 | 30.6 | 30.6 | 23.0 | 19.1 | 11.5 | 15.3 |
| 87.5° | 0.0 | 0.0 | 3.8 | 3.8 | 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)