

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: P526012

Luminaire Tested: **GALN-SA1A-722-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526012
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: McGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3003 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

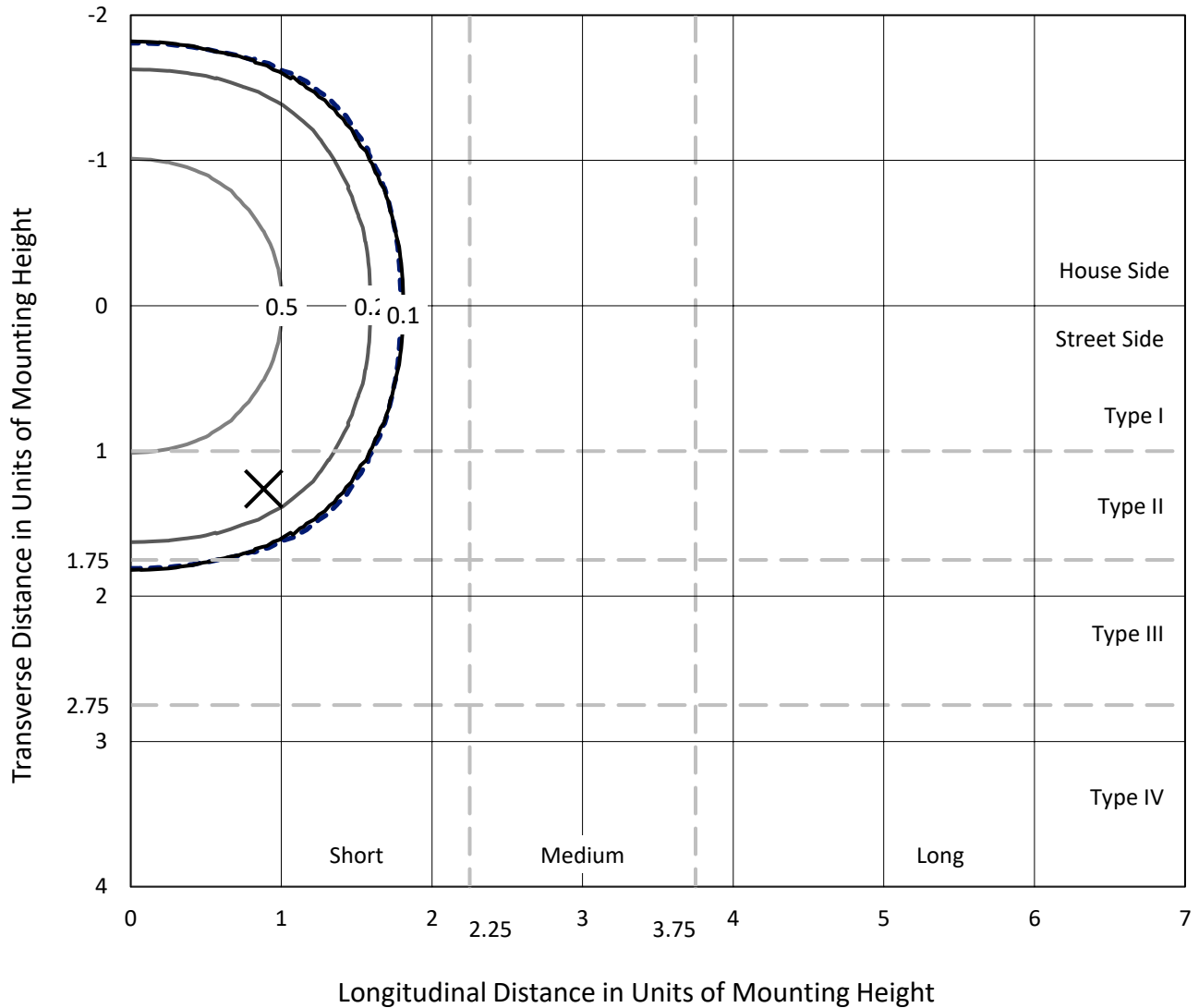
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

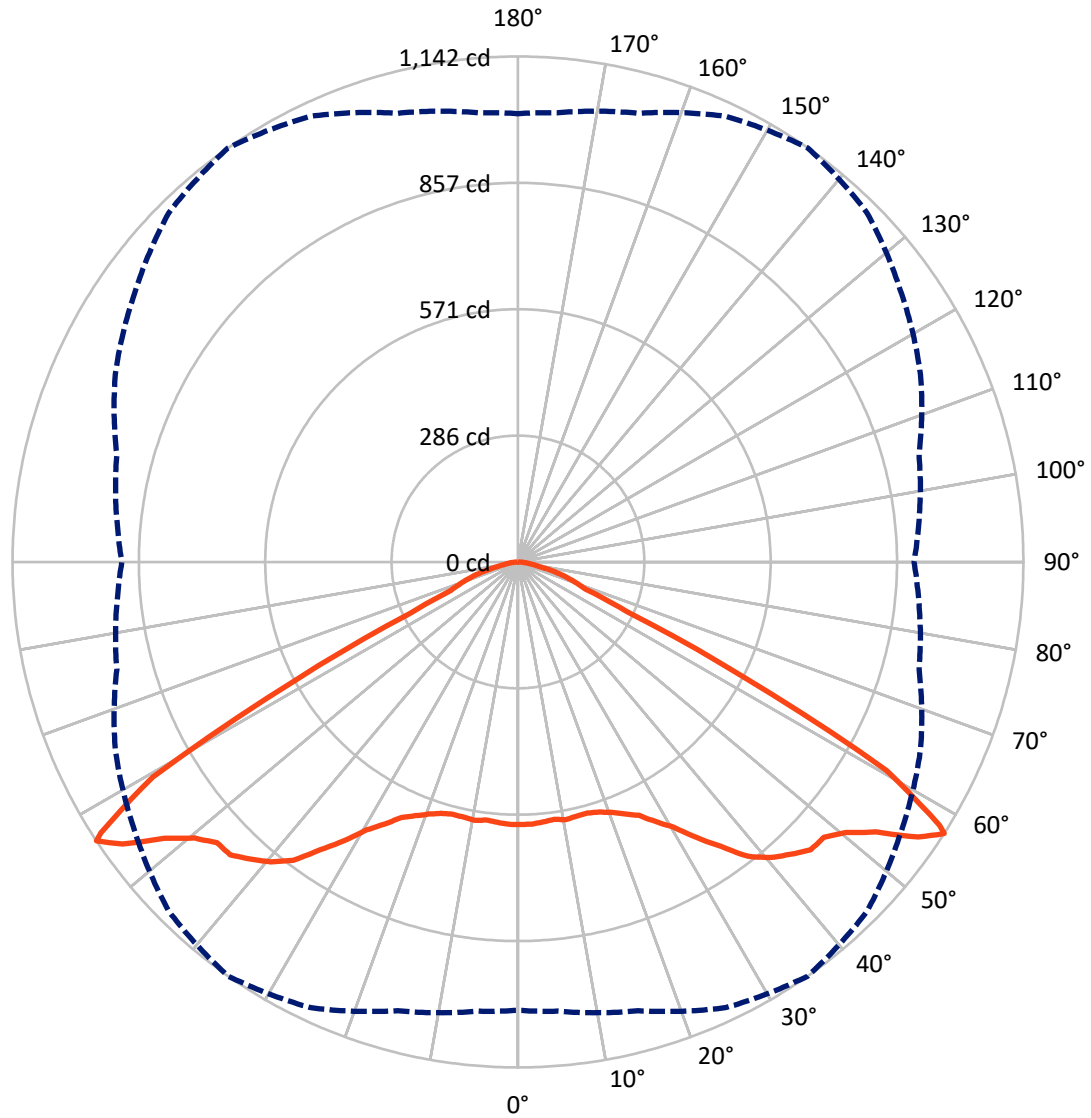
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1501.5 | 0.0 | 1501.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1501.5 | 0.0 | 1501.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3003.0 | 0.0 | 3003.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.2 | 1.9 |
| 10°-20° | 166.5 | 5.5 |
| 20°-30° | 290.8 | 9.7 |
| 30°-40° | 476.5 | 15.9 |
| 40°-50° | 698.7 | 23.3 |
| 50°-60° | 880.1 | 29.3 |
| 60°-70° | 331.0 | 11.0 |
| 70°-80° | 88.0 | 2.9 |
| 80°-90° | 15.1 | 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° | 3003.0 | 100.0 |
| 0°-180° | 3003.0 | 100.0 |

Coefficient of Utilization



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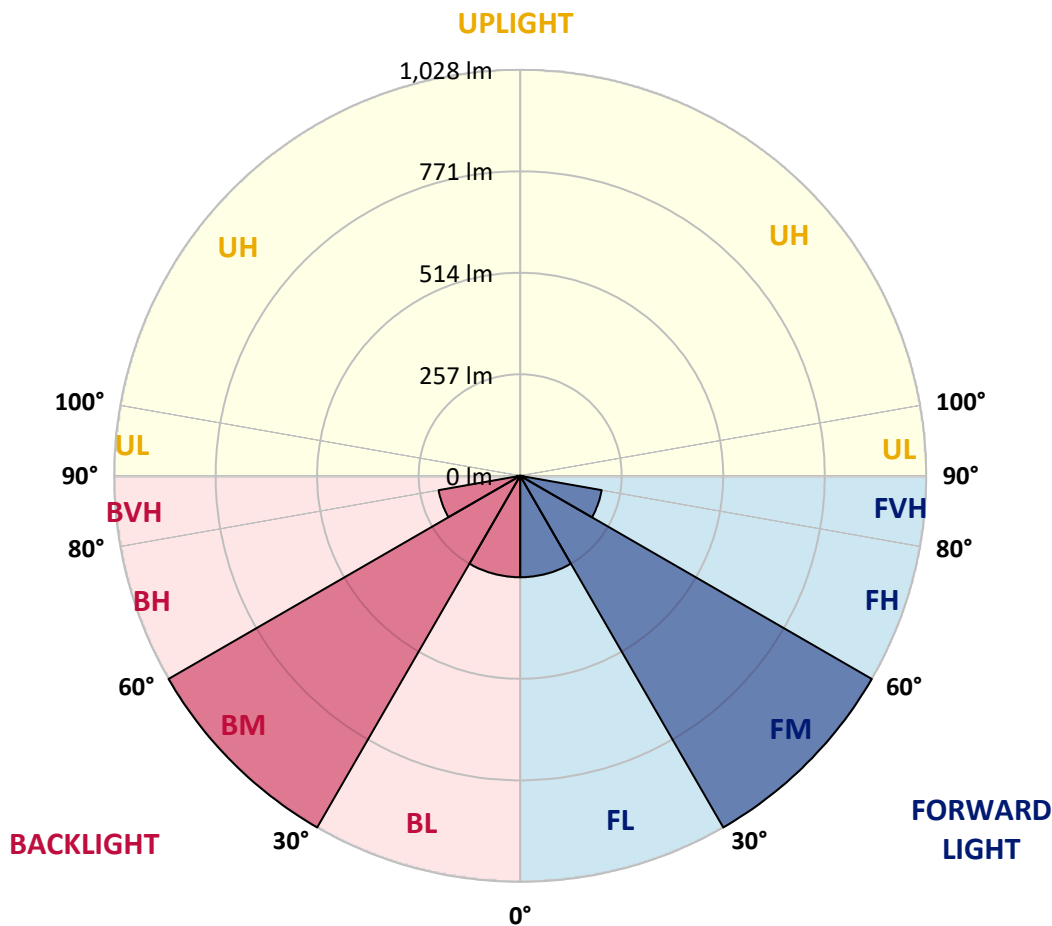
CATALOG NUMBER: GALN-SA1A-722-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 256.8 | 8.6 | | | |
| FM (30°-60°) | 1027.7 | 34.2 | | | |
| FH (60°-80°) | 209.5 | 7.0 | | | G0/660 |
| FVH (80°-90°) | 7.5 | 0.3 | | | G0/10 |
| BL (0°-30°) | 256.8 | 8.6 | B1/500 | | |
| BM (30°-60°) | 1027.7 | 34.2 | B2/2500 | | |
| BH (60°-80°) | 209.5 | 7.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 7.5 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 | 593.1 |
| 2.5° | 590.1 | 596.0 | 593.4 | 592.0 | 593.1 | 591.2 | 588.3 | 591.6 | 590.9 | 587.9 | 586.8 |
| 5° | 588.6 | 593.1 | 590.1 | 593.1 | 590.1 | 595.3 | 593.8 | 588.3 | 594.9 | 588.6 | 590.9 |
| 7.5° | 587.5 | 589.0 | 589.7 | 588.3 | 587.2 | 593.4 | 590.1 | 587.5 | 583.8 | 582.7 | 584.6 |
| 10° | 584.9 | 588.6 | 583.1 | 590.5 | 592.0 | 587.5 | 587.5 | 582.7 | 579.8 | 577.9 | 584.2 |
| 12.5° | 591.6 | 585.3 | 584.6 | 588.3 | 589.4 | 591.2 | 586.0 | 583.5 | 577.9 | 578.6 | 577.5 |
| 15° | 583.8 | 586.4 | 586.8 | 587.5 | 588.6 | 593.1 | 588.3 | 582.7 | 580.5 | 572.7 | 573.5 |
| 17.5° | 586.8 | 584.2 | 586.8 | 595.3 | 593.8 | 597.1 | 592.0 | 583.5 | 578.3 | 573.8 | 579.8 |
| 20° | 592.0 | 590.9 | 592.0 | 602.3 | 604.2 | 607.1 | 602.7 | 594.9 | 584.9 | 579.8 | 582.7 |
| 22.5° | 597.5 | 596.8 | 597.5 | 607.5 | 618.2 | 621.9 | 617.5 | 599.4 | 594.2 | 584.6 | 581.2 |
| 25° | 607.5 | 608.2 | 616.0 | 627.1 | 634.1 | 641.2 | 633.0 | 620.1 | 603.4 | 597.5 | 590.5 |
| 27.5° | 629.7 | 631.5 | 636.0 | 652.3 | 664.5 | 670.8 | 659.3 | 641.5 | 631.2 | 619.0 | 617.1 |
| 30° | 657.1 | 657.1 | 664.8 | 678.9 | 695.6 | 705.2 | 691.1 | 670.0 | 657.4 | 650.8 | 646.7 |
| 32.5° | 693.3 | 689.3 | 692.2 | 717.0 | 742.9 | 751.0 | 732.2 | 706.3 | 686.3 | 677.4 | 674.5 |
| 35° | 724.4 | 727.0 | 733.7 | 760.3 | 789.2 | 808.0 | 778.4 | 744.8 | 724.4 | 716.3 | 714.8 |
| 37.5° | 764.7 | 769.2 | 772.5 | 809.1 | 843.9 | 850.9 | 822.5 | 795.4 | 770.7 | 764.0 | 760.3 |
| 40° | 821.7 | 818.8 | 819.9 | 846.9 | 878.3 | 882.8 | 854.6 | 835.4 | 815.1 | 811.0 | 811.0 |
| 42.5° | 868.7 | 865.4 | 869.1 | 879.1 | 903.1 | 899.8 | 884.2 | 870.2 | 861.7 | 857.2 | 861.7 |
| 45° | 897.2 | 896.5 | 903.1 | 910.5 | 927.5 | 916.4 | 904.2 | 906.4 | 898.3 | 890.9 | 890.5 |
| 47.5° | 928.3 | 923.5 | 931.6 | 942.7 | 929.7 | 924.6 | 923.8 | 928.6 | 926.0 | 913.1 | 909.0 |
| 50° | 943.4 | 941.6 | 954.5 | 967.5 | 960.5 | 948.6 | 951.2 | 959.0 | 925.7 | 908.3 | 898.3 |
| 52.5° | 984.1 | 984.5 | 1009.3 | 1016.3 | 1013.4 | 996.0 | 1001.5 | 980.4 | 941.2 | 916.8 | 917.9 |
| 55° | 1048.1 | 1045.6 | 1073.3 | 1094.0 | 1097.3 | 1075.1 | 1048.5 | 1018.9 | 969.7 | 944.9 | 937.5 |
| 57° | 1013.0 | 1018.9 | 1049.6 | 1111.0 | 1142.1 | 1115.8 | 1057.8 | 1003.7 | 938.3 | 908.3 | 895.0 |
| 57.5° | 966.0 | 975.6 | 1028.9 | 1090.7 | 1123.2 | 1121.0 | 1046.3 | 975.6 | 917.2 | 870.6 | 871.7 |
| 60° | 707.8 | 709.6 | 757.7 | 855.8 | 957.5 | 959.7 | 868.7 | 775.1 | 710.0 | 659.3 | 666.3 |
| 62.5° | 373.3 | 381.8 | 401.1 | 479.9 | 567.9 | 589.4 | 534.2 | 486.1 | 429.9 | 391.4 | 395.1 |
| 65° | 197.6 | 196.5 | 205.7 | 227.9 | 271.2 | 282.3 | 274.9 | 236.8 | 217.2 | 210.9 | 211.3 |
| 67.5° | 160.6 | 162.4 | 161.3 | 162.4 | 165.4 | 170.2 | 169.1 | 170.6 | 171.7 | 173.5 | 173.1 |
| 70° | 136.2 | 136.2 | 136.9 | 137.3 | 137.3 | 139.5 | 142.1 | 146.9 | 147.3 | 149.1 | 149.8 |
| 72.5° | 107.3 | 106.6 | 107.7 | 110.3 | 110.6 | 112.5 | 116.2 | 119.1 | 120.2 | 120.2 | 118.0 |
| 75° | 72.9 | 73.6 | 75.1 | 77.3 | 79.5 | 82.9 | 85.8 | 87.7 | 88.4 | 87.3 | 86.2 |
| 77.5° | 41.1 | 41.8 | 42.9 | 46.2 | 48.8 | 51.8 | 55.1 | 57.0 | 58.8 | 59.2 | 57.0 |
| 80° | 24.4 | 24.4 | 26.3 | 28.9 | 31.8 | 34.8 | 37.7 | 40.0 | 40.7 | 40.7 | 39.6 |
| 82.5° | 14.8 | 15.2 | 16.6 | 19.2 | 21.8 | 23.7 | 26.3 | 28.1 | 29.6 | 29.2 | 28.5 |
| 85° | 7.8 | 7.8 | 9.2 | 11.5 | 13.3 | 15.2 | 15.2 | 14.1 | 13.3 | 11.5 | 10.7 |
| 87.5° | 2.6 | 2.2 | 3.0 | 3.0 | 2.6 | 3.0 | 3.0 | 3.3 | 3.3 | 3.3 | 3.3 |
| 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)