

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: P453077

Luminaire Tested: **GALN-SA4A-750-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-750-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18059 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

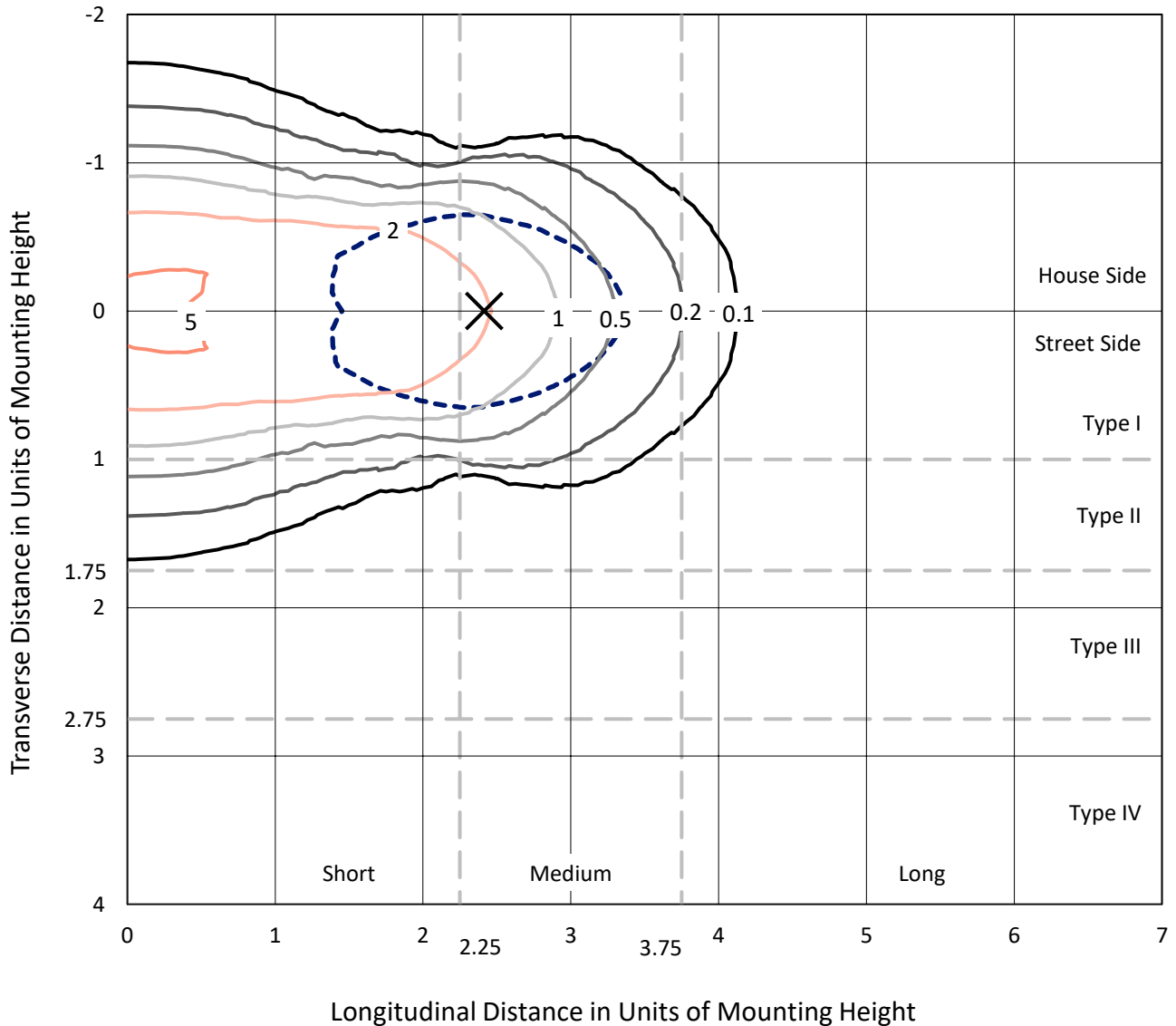
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

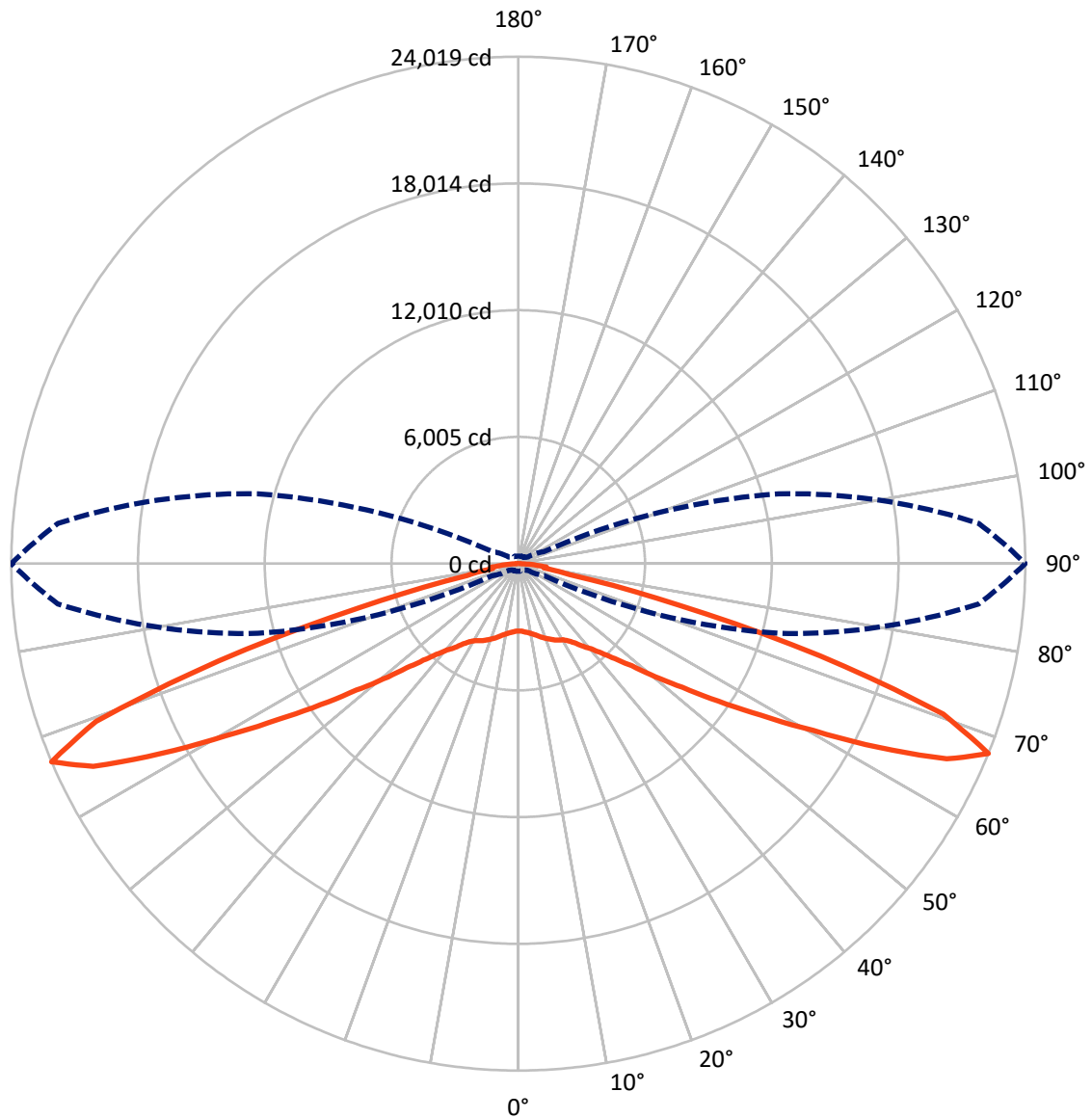
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9029.5 | 0.0 | 9029.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9029.5 | 0.0 | 9029.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18059.0 | 0.0 | 18059.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.7 | 1.8 |
| 10°-20° | 1019.8 | 5.6 |
| 20°-30° | 1706.9 | 9.5 |
| 30°-40° | 2312.4 | 12.8 |
| 40°-50° | 2929.0 | 16.2 |
| 50°-60° | 3659.1 | 20.3 |
| 60°-70° | 4301.1 | 23.8 |
| 70°-80° | 1645.4 | 9.1 |
| 80°-90° | 166.7 | 0.9 |
| 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° | 18059.0 | 100.0 |
| 0°-180° | 18059.0 | 100.0 |

Coefficient of Utilization



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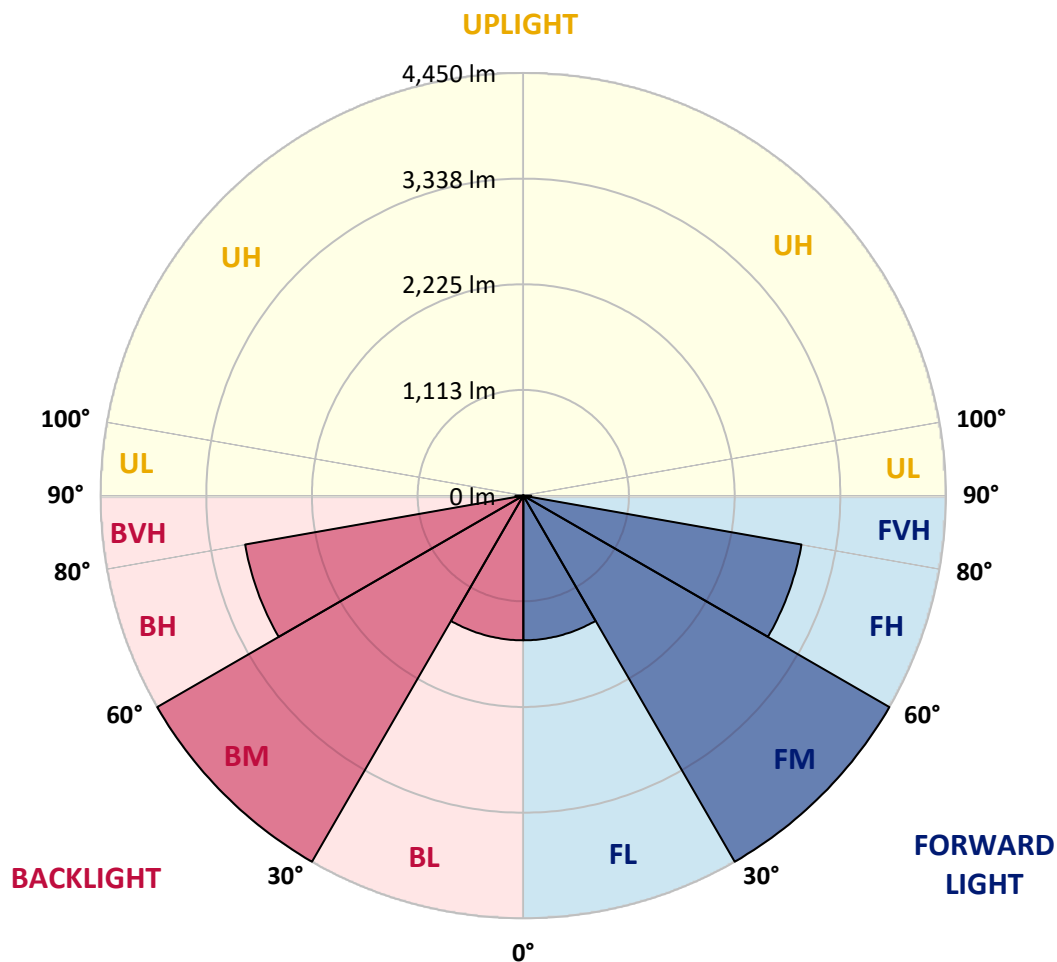
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1522.7 | 8.4 | | | |
| FM | (30°-60°) | 4450.2 | 24.6 | | | |
| FH | (60°-80°) | 2973.2 | 16.5 | | | G2/5000 |
| FVH | (80°-90°) | 83.3 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 1522.7 | 8.4 | B3/2500 | | |
| BM | (30°-60°) | 4450.2 | 24.6 | B3/5000 | | |
| BH | (60°-80°) | 2973.2 | 16.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 83.3 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 0° | 3197 | 3197 | 3197 | 3197 | 3197 | 3197 | 3197 | 3197 | 3197 | 3197 | 3197 |
| 2.5° | 3238 | 3236 | 3237 | 3236 | 3239 | 3237 | 3225 | 3215 | 3207 | 3208 | 3205 |
| 5° | 3307 | 3308 | 3309 | 3304 | 3311 | 3307 | 3288 | 3272 | 3256 | 3250 | 3248 |
| 7.5° | 3364 | 3369 | 3372 | 3377 | 3389 | 3389 | 3379 | 3356 | 3321 | 3301 | 3300 |
| 10° | 3421 | 3425 | 3434 | 3450 | 3470 | 3489 | 3485 | 3454 | 3409 | 3375 | 3367 |
| 12.5° | 3441 | 3446 | 3476 | 3522 | 3567 | 3604 | 3604 | 3579 | 3521 | 3469 | 3454 |
| 15° | 3371 | 3380 | 3434 | 3532 | 3650 | 3731 | 3749 | 3714 | 3652 | 3572 | 3554 |
| 17.5° | 3232 | 3254 | 3333 | 3478 | 3674 | 3842 | 3894 | 3877 | 3797 | 3695 | 3674 |
| 20° | 3083 | 3107 | 3191 | 3383 | 3654 | 3907 | 4058 | 4062 | 3963 | 3815 | 3784 |
| 22.5° | 2919 | 2937 | 3045 | 3270 | 3594 | 3922 | 4199 | 4268 | 4134 | 3935 | 3891 |
| 25° | 2735 | 2755 | 2868 | 3111 | 3481 | 3905 | 4328 | 4480 | 4313 | 4063 | 4007 |
| 27.5° | 2559 | 2567 | 2688 | 2935 | 3332 | 3861 | 4423 | 4675 | 4511 | 4169 | 4098 |
| 30° | 2390 | 2409 | 2516 | 2760 | 3161 | 3775 | 4505 | 4897 | 4724 | 4280 | 4189 |
| 32.5° | 2211 | 2234 | 2350 | 2597 | 2990 | 3646 | 4555 | 5140 | 5021 | 4460 | 4363 |
| 35° | 2039 | 2054 | 2171 | 2411 | 2823 | 3496 | 4564 | 5414 | 5404 | 4733 | 4604 |
| 37.5° | 1863 | 1885 | 2003 | 2233 | 2646 | 3337 | 4519 | 5705 | 5866 | 5112 | 4973 |
| 40° | 1694 | 1713 | 1829 | 2061 | 2445 | 3143 | 4412 | 5971 | 6405 | 5502 | 5305 |
| 42.5° | 1510 | 1515 | 1642 | 1878 | 2248 | 2918 | 4258 | 6208 | 7006 | 6025 | 5780 |
| 45° | 1301 | 1314 | 1432 | 1664 | 2022 | 2666 | 4049 | 6404 | 7768 | 6750 | 6416 |
| 47.5° | 1092 | 1103 | 1211 | 1440 | 1775 | 2377 | 3727 | 6576 | 8550 | 7671 | 7233 |
| 50° | 888 | 894 | 982 | 1185 | 1497 | 2073 | 3328 | 6631 | 9434 | 8975 | 8416 |
| 52.5° | 702 | 711 | 778 | 937 | 1200 | 1714 | 2897 | 6495 | 10466 | 10521 | 9733 |
| 55° | 569 | 572 | 622 | 739 | 938 | 1338 | 2377 | 6116 | 11576 | 12502 | 11497 |
| 57.5° | 490 | 492 | 520 | 585 | 722 | 1009 | 1844 | 5399 | 12573 | 14823 | 13531 |
| 60° | 445 | 446 | 462 | 500 | 572 | 774 | 1321 | 4387 | 13557 | 17406 | 16059 |
| 62.5° | 417 | 417 | 428 | 449 | 484 | 594 | 957 | 3165 | 14231 | 20027 | 19175 |
| 65° | 390 | 390 | 398 | 413 | 432 | 486 | 707 | 2064 | 14214 | 21936 | 22309 |
| 67.5° | 359 | 359 | 365 | 380 | 391 | 418 | 546 | 1352 | 12768 | 21894 | 24019 |
| 70° | 322 | 322 | 330 | 343 | 352 | 369 | 431 | 925 | 9380 | 18694 | 21361 |
| 72.5° | 285 | 286 | 291 | 304 | 311 | 321 | 358 | 648 | 5754 | 12729 | 14936 |
| 75° | 244 | 246 | 251 | 264 | 270 | 274 | 302 | 462 | 2911 | 6863 | 7814 |
| 77.5° | 197 | 201 | 204 | 218 | 222 | 228 | 249 | 334 | 1278 | 2466 | 2488 |
| 80° | 144 | 149 | 158 | 171 | 174 | 178 | 190 | 237 | 579 | 1126 | 1223 |
| 82.5° | 106 | 113 | 102 | 119 | 119 | 114 | 134 | 159 | 266 | 1115 | 1334 |
| 85° | 58 | 59 | 53 | 61 | 65 | 64 | 71 | 78 | 129 | 744 | 767 |
| 87.5° | 14 | 15 | 16 | 19 | 23 | 23 | 25 | 22 | 42 | 241 | 138 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)