

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: STREETWORKS

Report Number: P509850

Luminaire Tested: **VERD-M-CA3-150-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA3-150-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 940mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22787 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

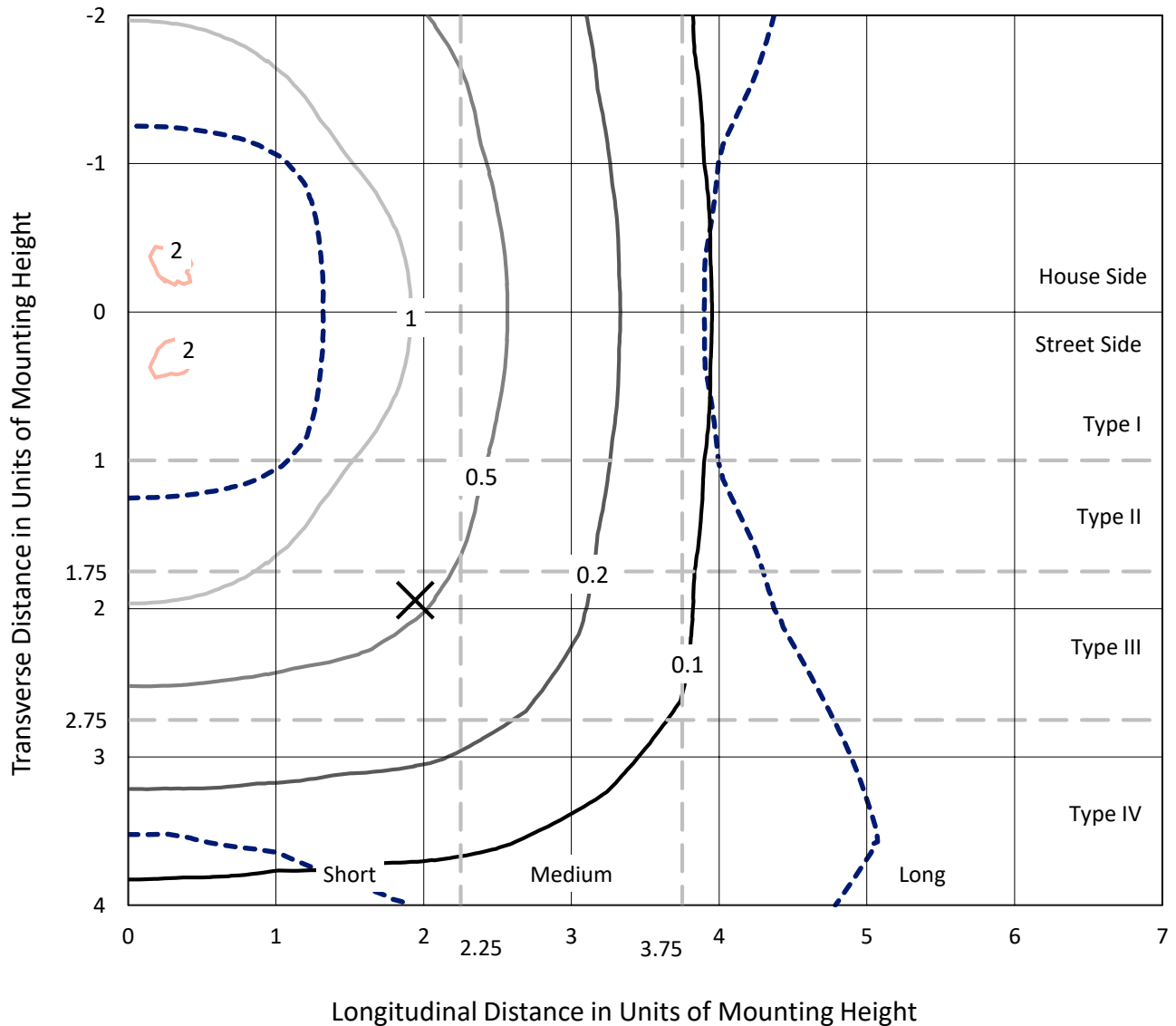
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

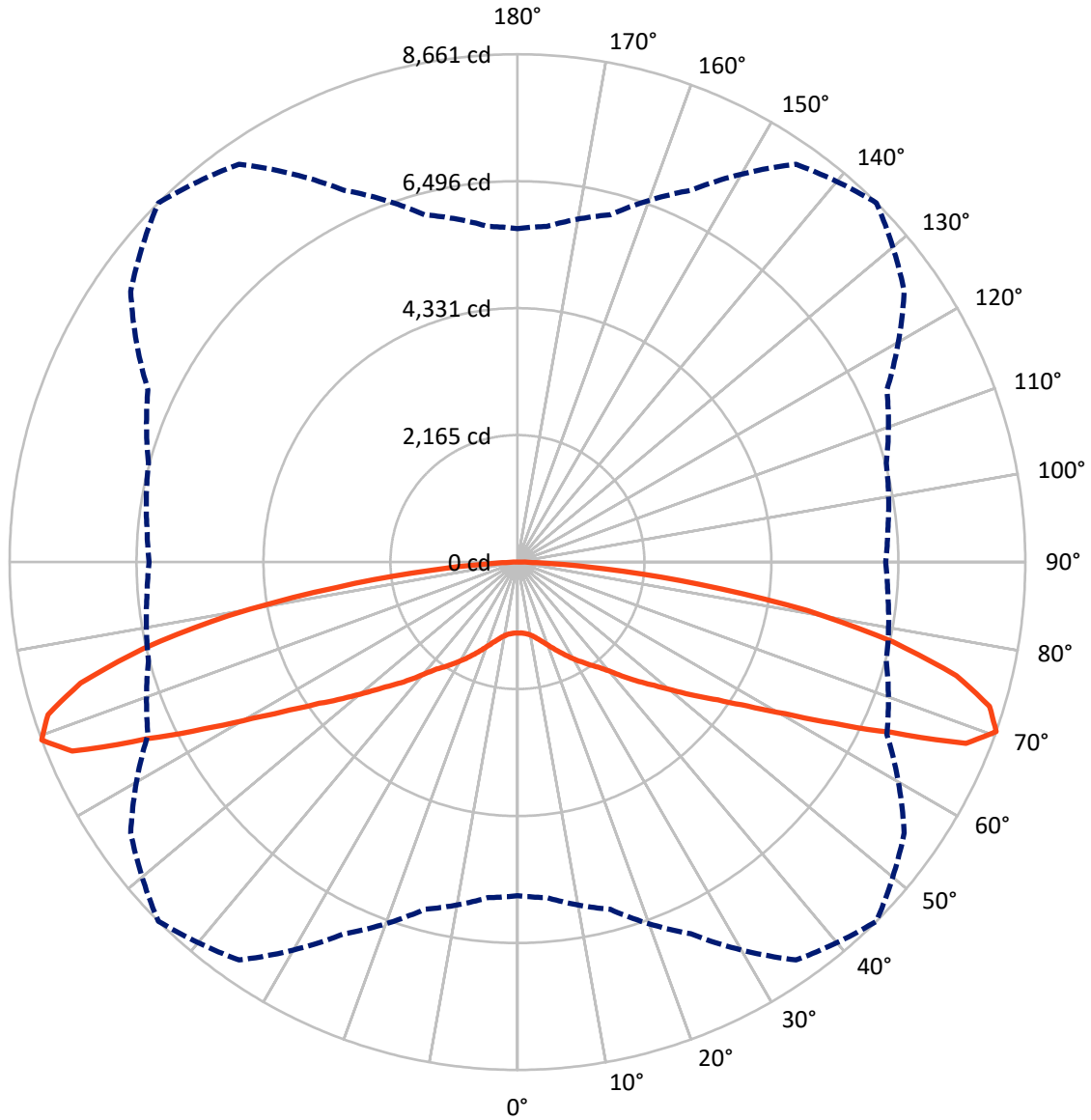
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11393.5 | 0.0 | 11393.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11393.5 | 0.0 | 11393.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22787.0 | 0.0 | 22787.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.5 | 0.5 |
| 10°-20° | 392.3 | 1.7 |
| 20°-30° | 784.6 | 3.4 |
| 30°-40° | 1365.2 | 6.0 |
| 40°-50° | 2375.2 | 10.4 |
| 50°-60° | 4135.5 | 18.1 |
| 60°-70° | 6697.7 | 29.4 |
| 70°-80° | 5745.9 | 25.2 |
| 80°-90° | 1172.0 | 5.1 |
| 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° | 22787.0 | 100.0 |
| 0°-180° | 22787.0 | 100.0 |



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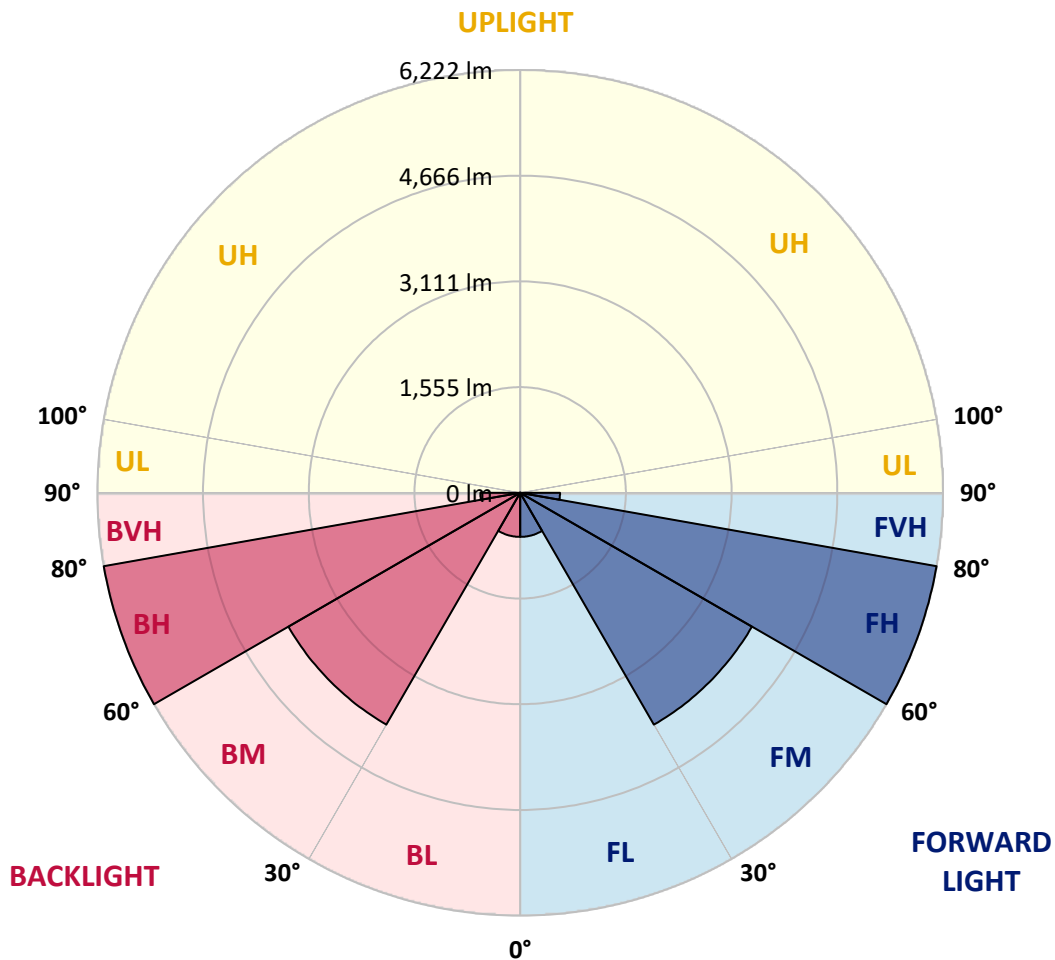
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 647.7 | 2.8 | | | |
| FM | (30°-60°) | 3937.9 | 17.3 | | | |
| FH | (60°-80°) | 6221.8 | 27.3 | | | G3/7500 |
| FVH | (80°-90°) | 586.0 | 2.6 | | | G4/750 |
| BL | (0°-30°) | 647.7 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 3937.9 | 17.3 | B3/5000 | | |
| BH | (60°-80°) | 6221.8 | 27.3 | B5 | | G3/7500 |
| BVH | (80°-90°) | 586.0 | 2.6 | | | G4/750 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 | 1212 |
| 2.5° | 1208 | 1215 | 1214 | 1212 | 1209 | 1209 | 1211 | 1218 | 1219 | 1219 | 1219 |
| 5° | 1222 | 1229 | 1228 | 1226 | 1223 | 1222 | 1224 | 1231 | 1232 | 1232 | 1233 |
| 7.5° | 1238 | 1246 | 1246 | 1245 | 1238 | 1238 | 1240 | 1249 | 1249 | 1251 | 1253 |
| 10° | 1265 | 1274 | 1277 | 1273 | 1269 | 1267 | 1269 | 1278 | 1277 | 1275 | 1276 |
| 12.5° | 1302 | 1311 | 1318 | 1317 | 1313 | 1311 | 1313 | 1318 | 1312 | 1304 | 1304 |
| 15° | 1348 | 1360 | 1368 | 1368 | 1373 | 1370 | 1367 | 1368 | 1359 | 1352 | 1352 |
| 17.5° | 1407 | 1417 | 1424 | 1430 | 1438 | 1438 | 1431 | 1429 | 1417 | 1411 | 1412 |
| 20° | 1479 | 1487 | 1497 | 1502 | 1518 | 1519 | 1507 | 1502 | 1490 | 1482 | 1484 |
| 22.5° | 1557 | 1571 | 1575 | 1590 | 1609 | 1610 | 1594 | 1583 | 1571 | 1565 | 1566 |
| 25° | 1651 | 1665 | 1662 | 1675 | 1704 | 1707 | 1689 | 1673 | 1663 | 1657 | 1659 |
| 27.5° | 1754 | 1768 | 1767 | 1767 | 1801 | 1814 | 1789 | 1772 | 1774 | 1763 | 1767 |
| 30° | 1864 | 1876 | 1883 | 1871 | 1904 | 1925 | 1885 | 1887 | 1886 | 1879 | 1878 |
| 32.5° | 1993 | 2004 | 2003 | 1995 | 2005 | 2035 | 2003 | 2013 | 2016 | 2017 | 2025 |
| 35° | 2140 | 2153 | 2139 | 2128 | 2129 | 2158 | 2134 | 2150 | 2166 | 2172 | 2172 |
| 37.5° | 2297 | 2304 | 2289 | 2272 | 2268 | 2284 | 2280 | 2306 | 2333 | 2348 | 2356 |
| 40° | 2500 | 2506 | 2477 | 2444 | 2438 | 2456 | 2461 | 2518 | 2559 | 2587 | 2592 |
| 42.5° | 2782 | 2781 | 2740 | 2679 | 2650 | 2678 | 2714 | 2780 | 2849 | 2855 | 2876 |
| 45° | 3145 | 3131 | 3078 | 2987 | 2914 | 2904 | 2947 | 3045 | 3122 | 3155 | 3168 |
| 47.5° | 3559 | 3543 | 3447 | 3306 | 3181 | 3142 | 3178 | 3301 | 3416 | 3464 | 3490 |
| 50° | 4021 | 4002 | 3905 | 3714 | 3506 | 3435 | 3457 | 3610 | 3744 | 3805 | 3851 |
| 52.5° | 4518 | 4515 | 4391 | 4171 | 3893 | 3778 | 3771 | 3955 | 4135 | 4216 | 4241 |
| 55° | 5051 | 5036 | 4925 | 4686 | 4364 | 4149 | 4150 | 4354 | 4574 | 4680 | 4692 |
| 57.5° | 5574 | 5568 | 5445 | 5241 | 4912 | 4629 | 4601 | 4872 | 5094 | 5181 | 5185 |
| 60° | 6068 | 6087 | 6023 | 5836 | 5571 | 5251 | 5210 | 5439 | 5628 | 5703 | 5730 |
| 62.5° | 6618 | 6624 | 6616 | 6478 | 6276 | 6060 | 5959 | 6076 | 6263 | 6325 | 6312 |
| 65° | 7011 | 7050 | 7141 | 7212 | 7169 | 7004 | 6871 | 6877 | 6914 | 6874 | 6871 |
| 67.5° | 6510 | 6595 | 6905 | 7404 | 7992 | 8249 | 7709 | 7106 | 6882 | 6737 | 6736 |
| 70° | 5688 | 5745 | 6132 | 6995 | 8283 | 8661 | 8052 | 6952 | 6513 | 6341 | 6280 |
| 72.5° | 4839 | 4884 | 5310 | 6191 | 7821 | 8418 | 7833 | 6500 | 5922 | 5543 | 5550 |
| 75° | 4030 | 4023 | 4345 | 5250 | 6923 | 7731 | 7253 | 5785 | 4962 | 4617 | 4578 |
| 77.5° | 2794 | 2858 | 3224 | 4149 | 5613 | 6542 | 6472 | 4762 | 3803 | 3435 | 3459 |
| 80° | 1464 | 1504 | 1938 | 2817 | 4107 | 5018 | 4926 | 3368 | 2457 | 2050 | 1973 |
| 82.5° | 610 | 636 | 886 | 1522 | 2510 | 3123 | 3081 | 2053 | 1370 | 954 | 952 |
| 85° | 259 | 260 | 376 | 652 | 1267 | 1484 | 1191 | 882 | 480 | 301 | 269 |
| 87.5° | 110 | 114 | 153 | 299 | 401 | 324 | 191 | 118 | 79 | 48 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)