

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: P509874

Luminaire Tested: **VERD-M-CA3-160-722-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509874  
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-CA3-160-722-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1000mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19569 lumens  
Efficiency: N/A  
Efficacy: 120.3 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

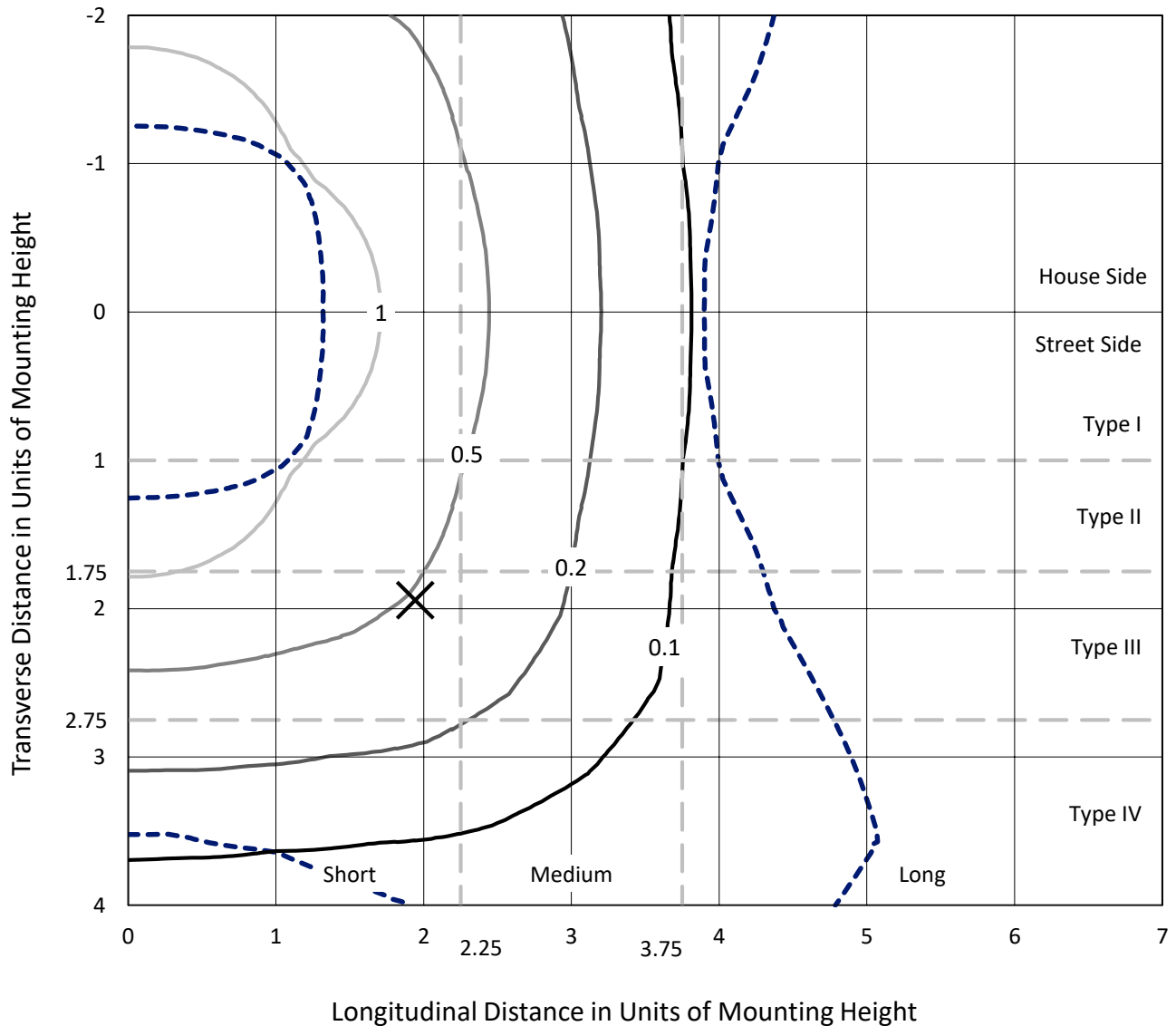
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P509874  
 CATALOG NUMBER: VERD-M-CA3-160-722-U-T5

### Iso-Footcandle Lines of Horizontal Illumination

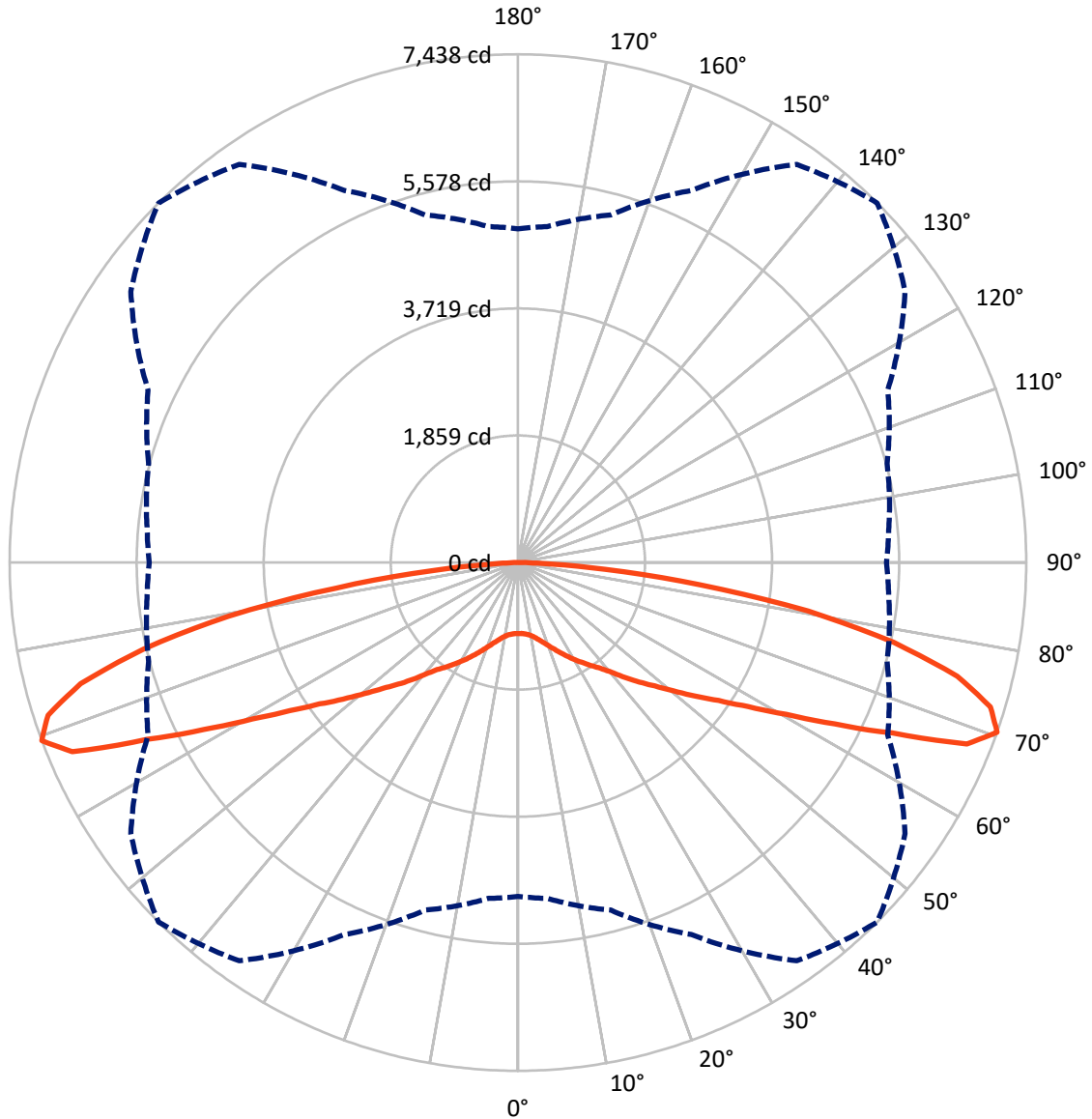
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P509874  
CATALOG NUMBER: VERD-M-CA3-160-722-U-T5

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509874

CATALOG NUMBER: VERD-M-CA3-160-722-U-T5

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9784.5	0.0	9784.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9784.5	0.0	9784.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19569.0	0.0	19569.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	0.5
10°-20°	336.9	1.7
20°-30°	673.8	3.4
30°-40°	1172.4	6.0
40°-50°	2039.8	10.4
50°-60°	3551.5	18.1
60°-70°	5751.9	29.4
70°-80°	4934.5	25.2
80°-90°	1006.5	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°	19569.0	100.0
0°-180°	19569.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509874

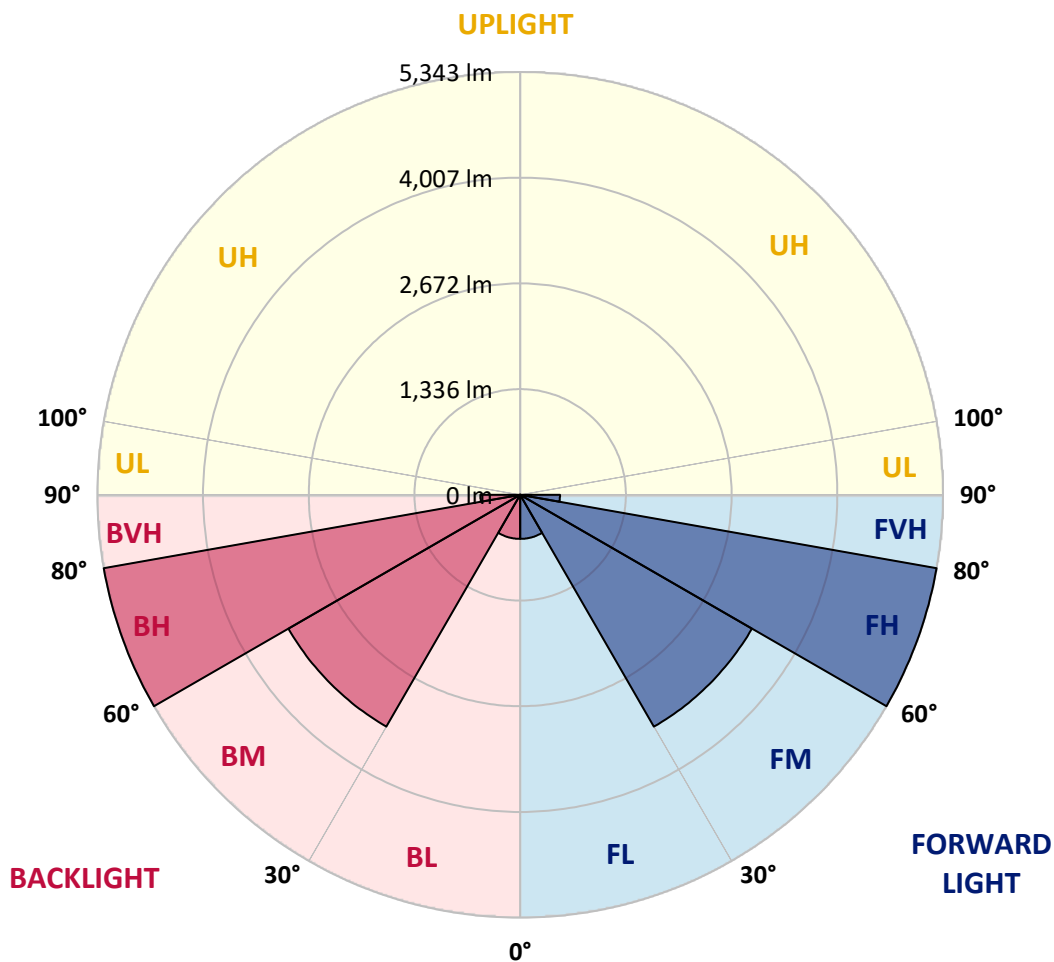
CATALOG NUMBER: VERD-M-CA3-160-722-U-T5

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.3	2.8			
FM	(30°-60°)	3381.8	17.3			
FH	(60°-80°)	5343.2	27.3			G3/7500
FVH	(80°-90°)	503.3	2.6			G4/750
BL	(0°-30°)	556.3	2.8	B2/1000		
BM	(30°-60°)	3381.8	17.3	B3/5000		
BH	(60°-80°)	5343.2	27.3	B5		G3/7500
BVH	(80°-90°)	503.3	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





REPORT NUMBER: P509874

CATALOG NUMBER: VERD-M-CA3-160-722-U-T5

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8	1040.8
2.5°	1037.4	1043.4	1042.6	1040.8	1038.3	1038.3	1040.0	1046.0	1046.9	1046.9	1046.9
5°	1049.4	1055.4	1054.6	1052.9	1050.3	1049.4	1051.1	1057.2	1058.0	1058.0	1058.9
7.5°	1063.2	1070.0	1070.0	1069.2	1063.2	1063.2	1064.9	1072.6	1072.6	1074.3	1076.0
10°	1086.4	1094.1	1096.7	1093.2	1089.8	1088.1	1089.8	1097.5	1096.7	1094.9	1095.8
12.5°	1118.1	1125.9	1131.9	1131.0	1127.6	1125.9	1127.6	1131.9	1126.7	1119.8	1119.8
15°	1157.6	1167.9	1174.8	1174.8	1179.1	1176.5	1174.0	1174.8	1167.1	1161.1	1161.1
17.5°	1208.3	1216.9	1222.9	1228.1	1234.9	1234.9	1228.9	1227.2	1216.9	1211.7	1212.6
20°	1270.1	1277.0	1285.6	1289.9	1303.6	1304.5	1294.2	1289.9	1279.6	1272.7	1274.4
22.5°	1337.1	1349.1	1352.6	1365.5	1381.8	1382.6	1368.9	1359.4	1349.1	1344.0	1344.8
25°	1417.8	1429.9	1427.3	1438.5	1463.4	1465.9	1450.5	1436.7	1428.1	1423.0	1424.7
27.5°	1506.3	1518.3	1517.5	1517.5	1546.7	1557.8	1536.4	1521.8	1523.5	1514.0	1517.5
30°	1600.8	1611.1	1617.1	1606.8	1635.1	1653.1	1618.8	1620.5	1619.7	1613.6	1612.8
32.5°	1711.5	1721.0	1720.1	1713.3	1721.9	1747.6	1720.1	1728.7	1731.3	1732.2	1739.0
35°	1837.8	1848.9	1836.9	1827.5	1828.3	1853.2	1832.6	1846.4	1860.1	1865.3	1865.3
37.5°	1972.6	1978.6	1965.7	1951.1	1947.7	1961.4	1958.0	1980.3	2003.5	2016.4	2023.3
40°	2146.9	2152.1	2127.2	2098.9	2093.7	2109.2	2113.5	2162.4	2197.6	2221.7	2226.0
42.5°	2389.1	2388.3	2353.1	2300.7	2275.8	2299.8	2330.7	2387.4	2446.7	2451.8	2469.8
45°	2700.9	2688.8	2643.3	2565.2	2502.5	2493.9	2530.8	2615.0	2681.1	2709.4	2720.6
47.5°	3056.4	3042.7	2960.2	2839.1	2731.8	2698.3	2729.2	2834.8	2933.6	2974.8	2997.1
50°	3453.1	3436.8	3353.5	3189.5	3010.9	2949.9	2968.8	3100.2	3215.3	3267.7	3307.2
52.5°	3880.0	3877.4	3770.9	3582.0	3343.2	3244.5	3238.5	3396.5	3551.0	3620.6	3642.1
55°	4337.7	4324.8	4229.5	4024.2	3747.7	3563.1	3563.9	3739.1	3928.1	4019.1	4029.4
57.5°	4786.8	4781.7	4676.0	4500.9	4218.3	3975.3	3951.2	4184.0	4374.6	4449.3	4452.8
60°	5211.1	5227.4	5172.4	5011.8	4784.3	4509.4	4474.2	4670.9	4833.2	4897.6	4920.8
62.5°	5683.4	5688.5	5681.7	5563.2	5389.7	5204.2	5117.5	5217.9	5378.5	5431.8	5420.6
65°	6020.9	6054.4	6132.5	6193.5	6156.6	6014.9	5900.7	5905.8	5937.6	5903.2	5900.7
67.5°	5590.6	5663.6	5929.9	6358.4	6863.4	7084.1	6620.3	6102.5	5910.1	5785.6	5784.7
70°	4884.7	4933.7	5266.0	6007.2	7113.3	7437.9	6914.9	5970.2	5593.2	5445.5	5393.1
72.5°	4155.6	4194.3	4560.1	5316.7	6716.5	7229.2	6726.8	5582.1	5085.7	4760.2	4766.2
75°	3460.9	3454.9	3731.4	4508.6	5945.3	6639.2	6228.7	4968.0	4261.3	3965.0	3931.5
77.5°	2399.4	2454.4	2768.7	3563.1	4820.3	5618.1	5558.0	4089.5	3265.9	2949.9	2970.5
80°	1257.3	1291.6	1664.3	2419.2	3527.0	4309.3	4230.3	2892.4	2110.0	1760.5	1694.4
82.5°	523.9	546.2	760.9	1307.1	2155.5	2682.0	2645.9	1763.1	1176.5	819.3	817.6
85°	222.4	223.3	322.9	559.9	1088.1	1274.4	1022.8	757.4	412.2	258.5	231.0
87.5°	94.5	97.9	131.4	256.8	344.4	278.2	164.0	101.3	67.8	41.2	31.8
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)