

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: P509978

Luminaire Tested: **VERD-M-CA3-180-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509978
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-CA3-180-727-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22248 lumens
Efficiency: N/A
Efficacy: 121.5 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

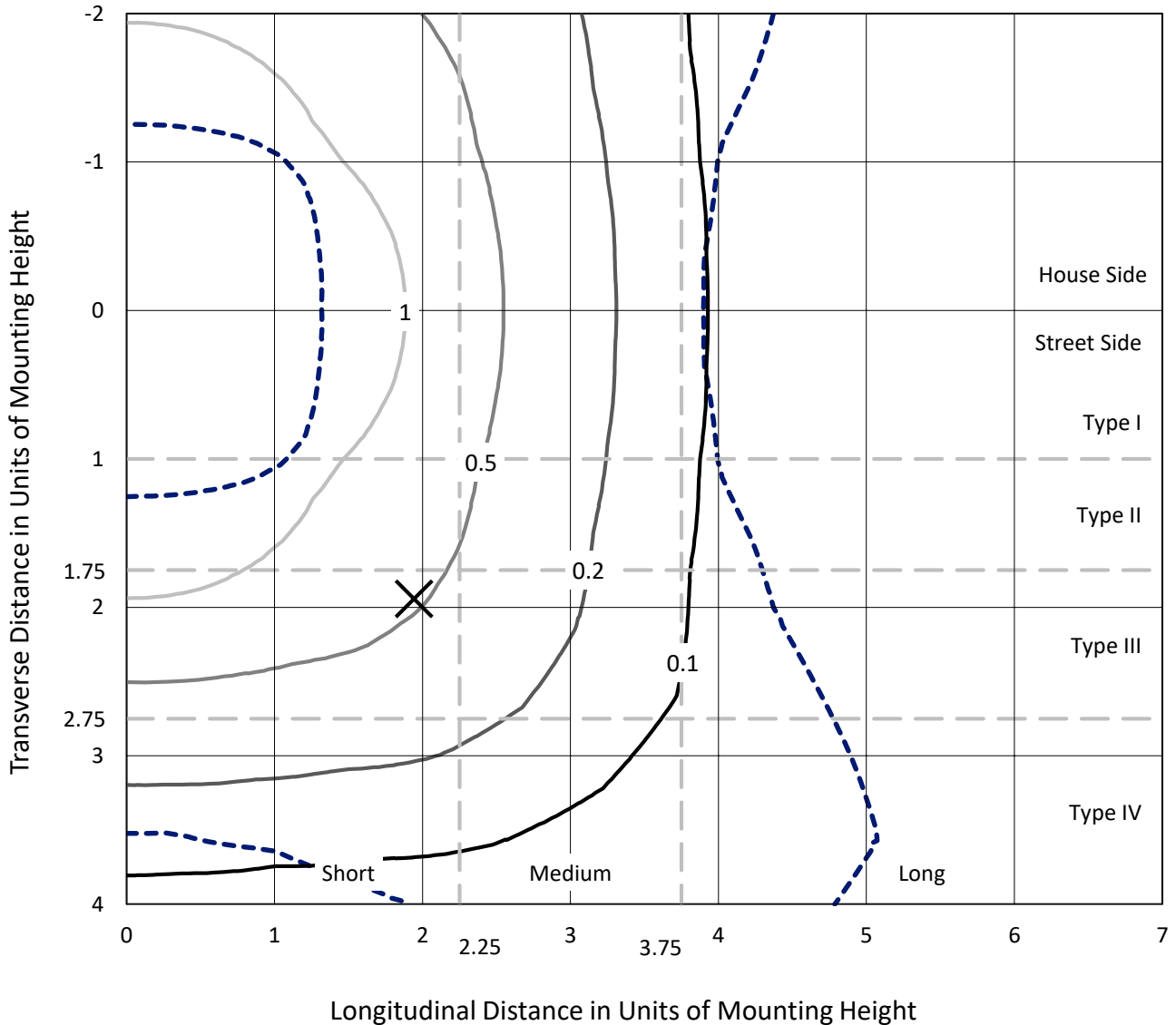
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509978
 CATALOG NUMBER: VERD-M-CA3-180-727-U-T5

Iso-Footcandle Lines of Horizontal Illumination

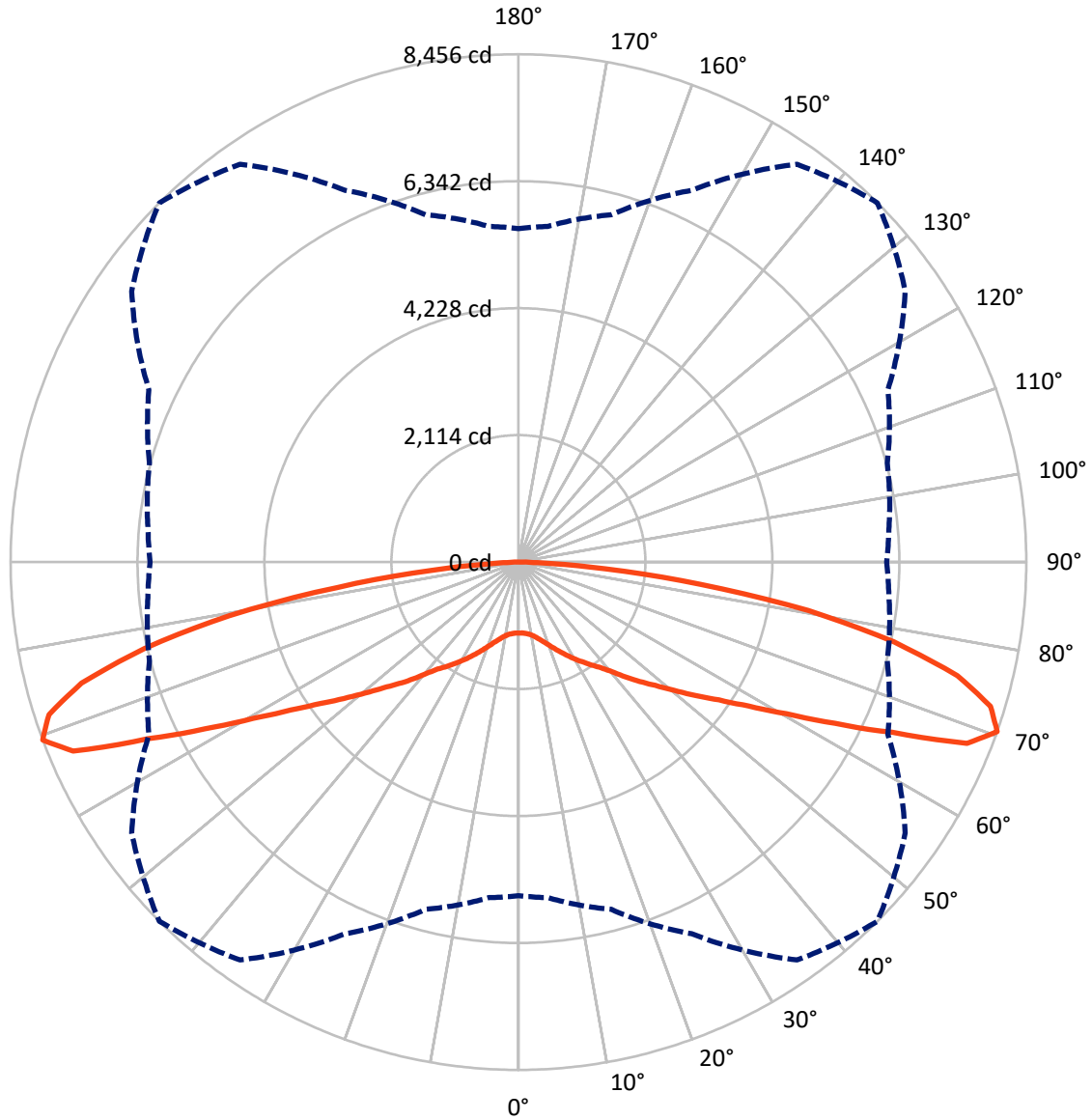
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P509978
CATALOG NUMBER: VERD-M-CA3-180-727-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P509978

CATALOG NUMBER: VERD-M-CA3-180-727-U-T5

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11124.0	0.0	11124.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11124.0	0.0	11124.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22248.0	0.0	22248.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	0.5
10°-20°	383.0	1.7
20°-30°	766.1	3.4
30°-40°	1332.9	6.0
40°-50°	2319.0	10.4
50°-60°	4037.6	18.1
60°-70°	6539.3	29.4
70°-80°	5610.0	25.2
80°-90°	1144.3	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°	22248.0	100.0
0°-180°	22248.0	100.0



REPORT NUMBER: P509978

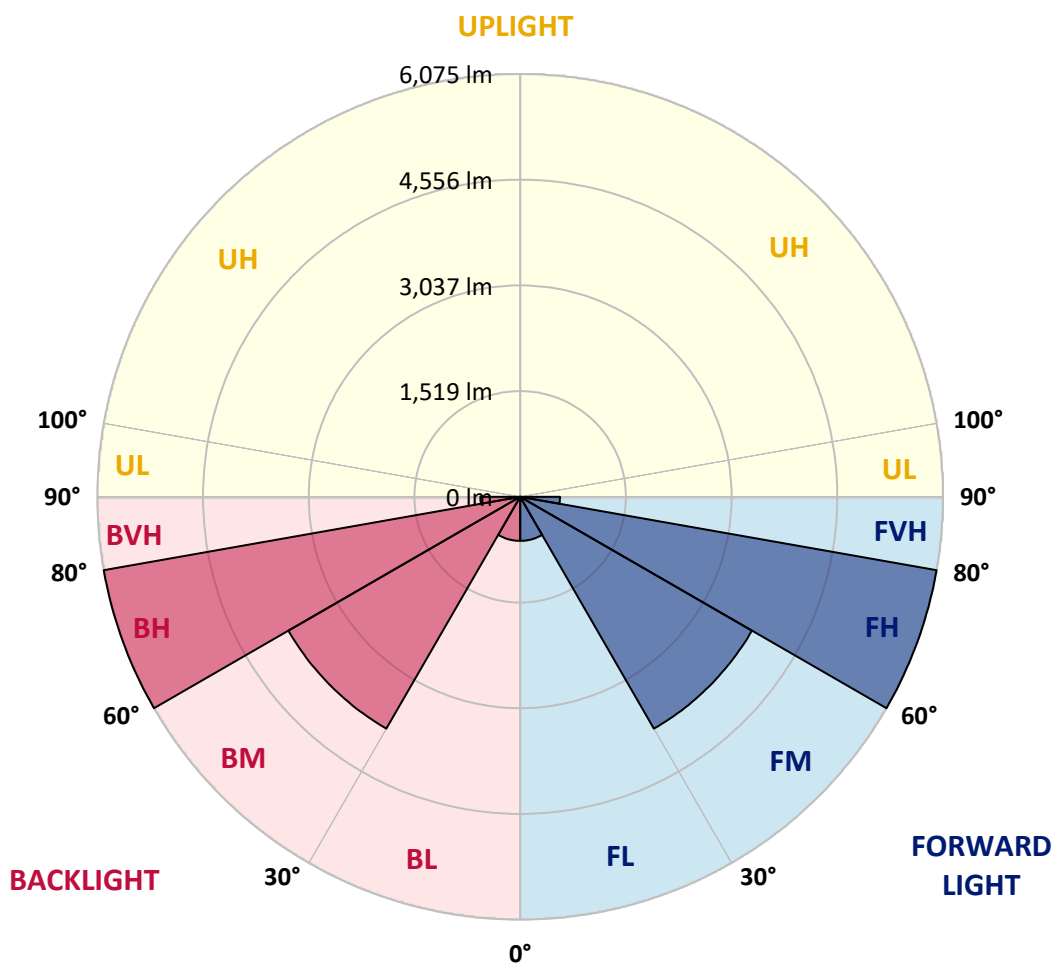
CATALOG NUMBER: VERD-M-CA3-180-727-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.4	2.8			
FM	(30°-60°)	3844.8	17.3			
FH	(60°-80°)	6074.7	27.3			G3/7500
FVH	(80°-90°)	572.1	2.6			G4/750
BL	(0°-30°)	632.4	2.8	B2/1000		
BM	(30°-60°)	3844.8	17.3	B3/5000		
BH	(60°-80°)	6074.7	27.3	B5		G3/7500
BVH	(80°-90°)	572.1	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: P509978

CATALOG NUMBER: VERD-M-CA3-180-727-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1179.4	1186.3	1185.3	1183.3	1180.4	1180.4	1182.4	1189.2	1190.2	1190.2	1190.2
5°	1193.1	1199.9	1199.0	1197.0	1194.1	1193.1	1195.0	1201.9	1202.9	1202.9	1203.8
7.5°	1208.7	1216.5	1216.5	1215.5	1208.7	1208.7	1210.7	1219.5	1219.5	1221.4	1223.4
10°	1235.1	1243.9	1246.8	1242.9	1239.0	1237.0	1239.0	1247.8	1246.8	1244.8	1245.8
12.5°	1271.2	1280.0	1286.8	1285.8	1281.9	1280.0	1281.9	1286.8	1281.0	1273.2	1273.2
15°	1316.1	1327.8	1335.6	1335.6	1340.5	1337.6	1334.7	1335.6	1326.9	1320.0	1320.0
17.5°	1373.7	1383.5	1390.3	1396.2	1404.0	1404.0	1397.2	1395.2	1383.5	1377.6	1378.6
20°	1444.0	1451.8	1461.6	1466.5	1482.1	1483.1	1471.4	1466.5	1454.8	1446.9	1448.9
22.5°	1520.2	1533.8	1537.7	1552.4	1570.9	1571.9	1556.3	1545.6	1533.8	1528.0	1529.0
25°	1611.9	1625.6	1622.7	1635.4	1663.7	1666.6	1649.0	1633.4	1623.7	1617.8	1619.8
27.5°	1712.5	1726.2	1725.2	1725.2	1758.4	1771.1	1746.7	1730.1	1732.0	1721.3	1725.2
30°	1819.9	1831.6	1838.5	1826.7	1859.0	1879.5	1840.4	1842.4	1841.4	1834.6	1833.6
32.5°	1945.9	1956.6	1955.6	1947.8	1957.6	1986.9	1955.6	1965.4	1968.3	1969.3	1977.1
35°	2089.4	2102.1	2088.4	2077.7	2078.6	2107.0	2083.5	2099.1	2114.8	2120.6	2120.6
37.5°	2242.7	2249.5	2234.9	2218.3	2214.4	2230.0	2226.1	2251.5	2277.8	2292.5	2300.3
40°	2440.9	2446.7	2418.4	2386.2	2380.3	2397.9	2402.8	2458.4	2498.5	2525.8	2530.7
42.5°	2716.2	2715.2	2675.2	2615.6	2587.3	2614.7	2649.8	2714.2	2781.6	2787.5	2808.0
45°	3070.6	3056.9	3005.2	2916.3	2845.1	2835.3	2877.3	2973.0	3048.1	3080.4	3093.1
47.5°	3474.8	3459.2	3365.5	3227.8	3105.8	3067.7	3102.8	3222.9	3335.2	3382.1	3407.4
50°	3925.9	3907.3	3812.6	3626.1	3423.1	3353.7	3375.2	3524.6	3655.4	3715.0	3759.9
52.5°	4411.1	4408.2	4287.1	4072.3	3800.9	3688.6	3681.8	3861.4	4037.2	4116.3	4140.7
55°	4931.5	4916.9	4808.5	4575.2	4260.8	4050.9	4051.8	4251.0	4465.8	4569.3	4581.0
57.5°	5442.1	5436.3	5316.2	5117.0	4795.8	4519.5	4492.2	4756.8	4973.5	5058.4	5062.4
60°	5924.5	5943.0	5880.5	5698.0	5439.2	5126.8	5086.8	5310.3	5494.9	5568.1	5594.5
62.5°	6461.5	6467.3	6459.5	6324.8	6127.5	5916.7	5818.0	5932.3	6114.9	6175.4	6162.7
65°	6845.2	6883.2	6972.1	7041.4	6999.4	6838.3	6708.5	6714.3	6750.5	6711.4	6708.5
67.5°	6356.0	6439.0	6741.7	7228.9	7803.0	8053.9	7526.6	6937.9	6719.2	6577.6	6576.7
70°	5553.5	5609.1	5986.9	6829.5	8087.1	8456.1	7861.5	6787.6	6358.9	6191.0	6131.4
72.5°	4724.5	4768.5	5184.4	6044.6	7636.0	8218.9	7647.7	6346.2	5781.9	5411.9	5418.7
75°	3934.7	3927.8	4242.2	5125.8	6759.2	7548.1	7081.4	5648.2	4844.6	4507.8	4469.7
77.5°	2727.9	2790.4	3147.7	4050.9	5480.2	6387.3	6318.9	4649.4	3713.0	3353.7	3377.2
80°	1429.4	1468.4	1892.2	2750.4	4009.9	4899.3	4809.5	3288.3	2398.9	2001.5	1926.3
82.5°	595.6	621.0	865.0	1486.0	2450.6	3049.1	3008.1	2004.4	1337.6	931.4	929.5
85°	252.9	253.8	367.1	636.6	1237.0	1448.9	1162.8	861.1	468.6	293.9	262.6
87.5°	107.4	111.3	149.4	291.9	391.5	316.3	186.5	115.2	77.1	46.9	36.1
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)