

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: P510162

Luminaire Tested: **VERD-M-CA4-220-722-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510162
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-CA4-220-722-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26182 lumens
Efficiency: N/A
Efficacy: 117.7 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

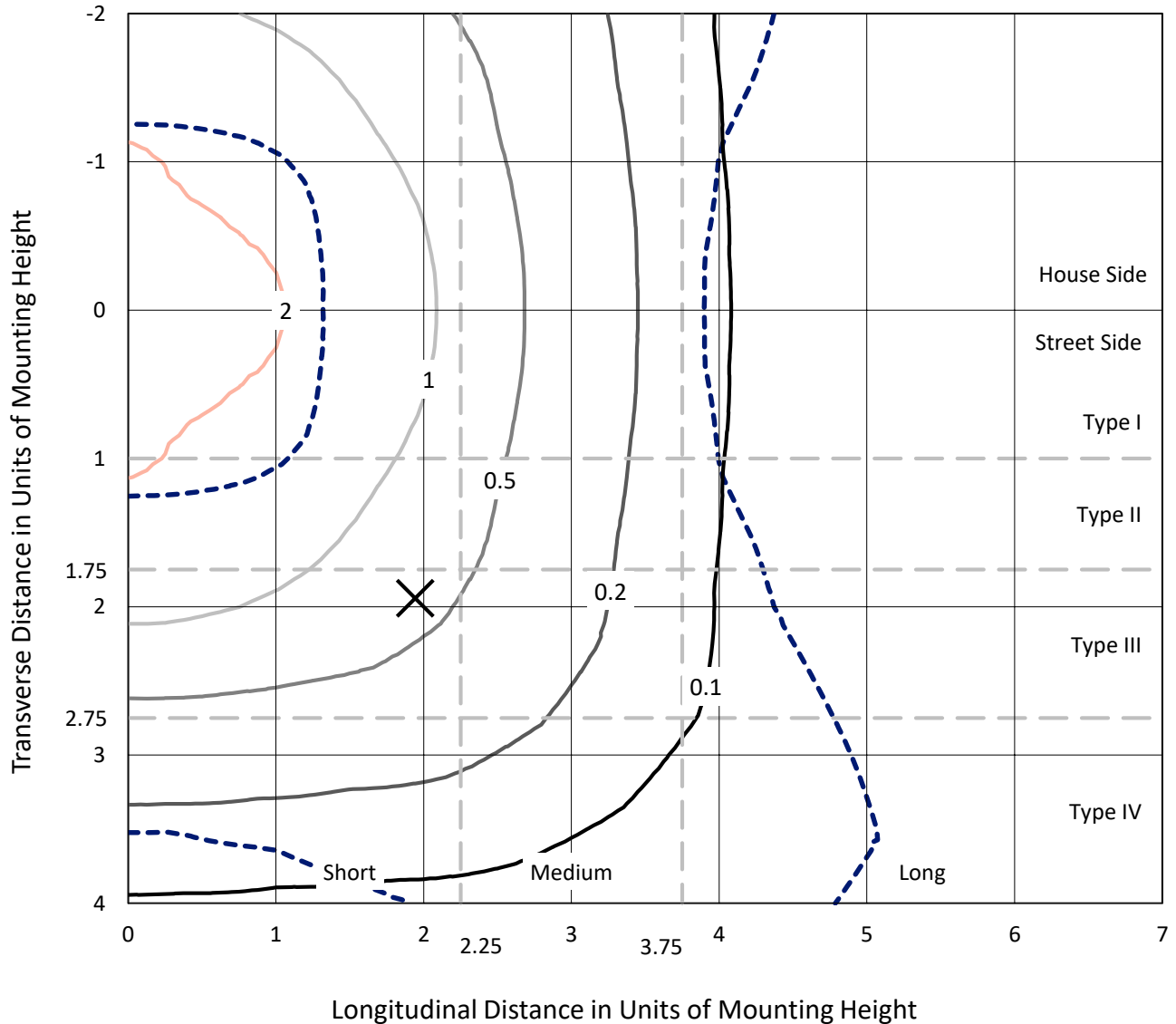
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510162
 CATALOG NUMBER: VERD-M-CA4-220-722-U-T5

Iso-Footcandle Lines of Horizontal Illumination

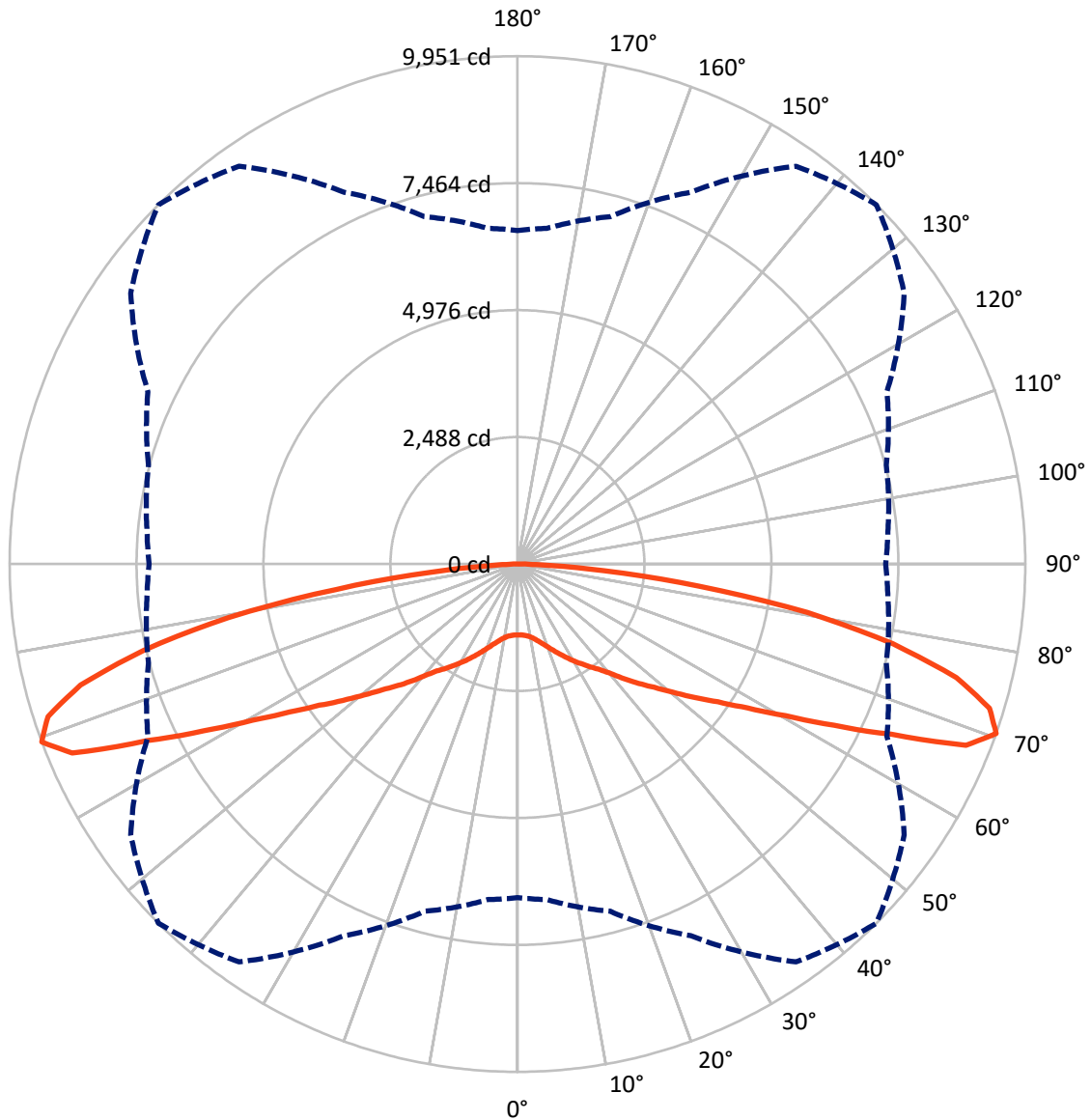
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

REPORT NUMBER: P510162
CATALOG NUMBER: VERD-M-CA4-220-722-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510162

CATALOG NUMBER: VERD-M-CA4-220-722-U-T5

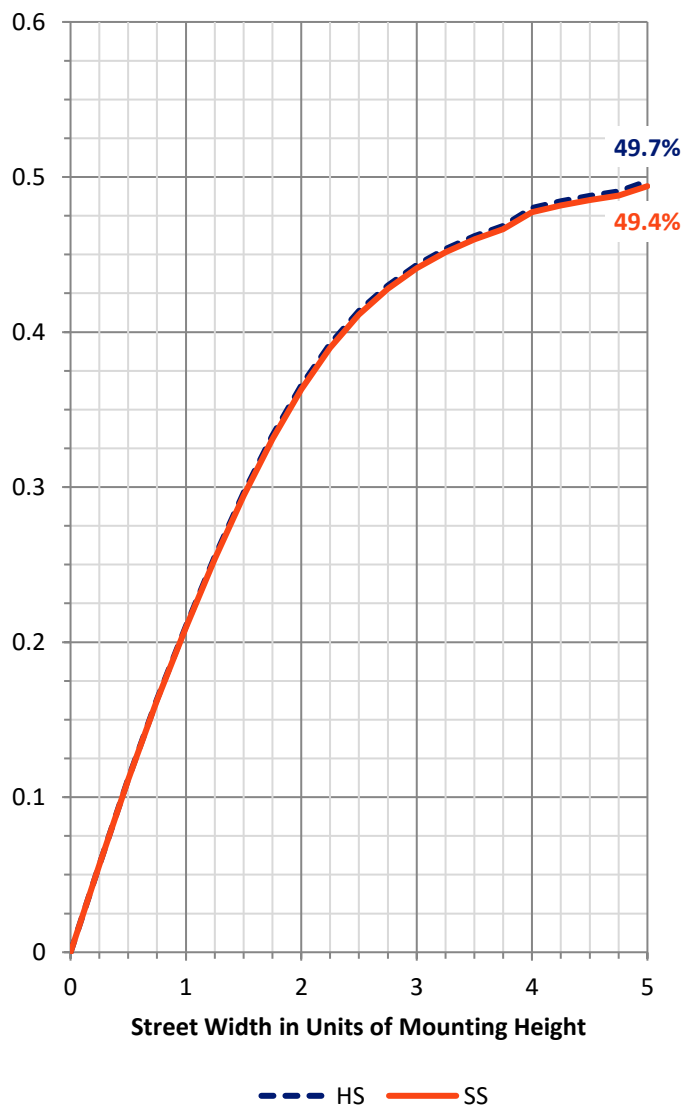
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13091.0	0.0	13091.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13091.0	0.0	13091.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26182.0	0.0	26182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	0.5
10°-20°	450.8	1.7
20°-30°	901.5	3.4
30°-40°	1568.6	6.0
40°-50°	2729.1	10.4
50°-60°	4751.6	18.1
60°-70°	7695.6	29.4
70°-80°	6602.0	25.2
80°-90°	1346.6	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°	26182.0	100.0
0°-180°	26182.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510162

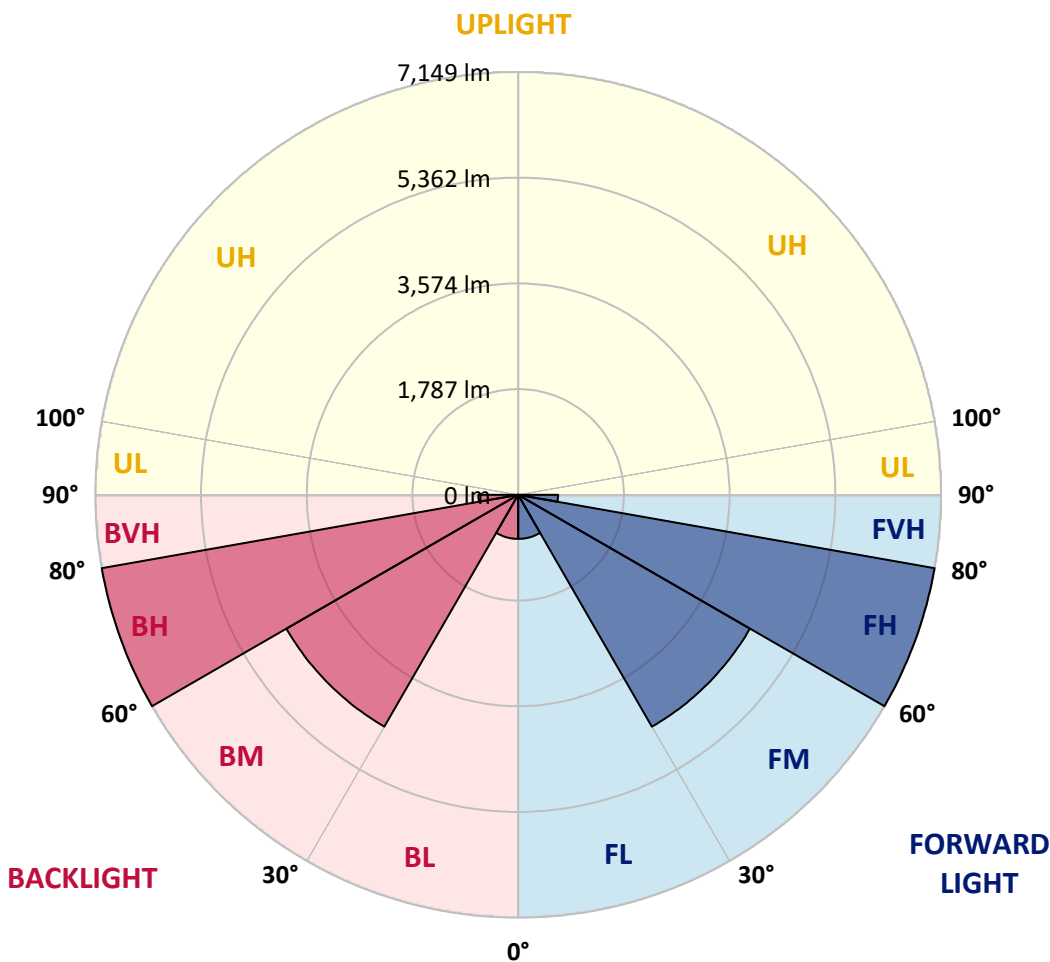
CATALOG NUMBER: VERD-M-CA4-220-722-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	744.2	2.8			
FM	(30°-60°)	4524.6	17.3			
FH	(60°-80°)	7148.8	27.3			G3/7500
FVH	(80°-90°)	673.3	2.6			G4/750
BL	(0°-30°)	744.2	2.8	B2/1000		
BM	(30°-60°)	4524.6	17.3	B3/5000		
BH	(60°-80°)	7148.8	27.3	B5		G3/7500
BVH	(80°-90°)	673.3	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: P510162

CATALOG NUMBER: VERD-M-CA4-220-722-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1392.6	1392.6	1392.6	1392.6	1392.6	1392.6	1392.6	1392.6	1392.6	1392.6	1392.6
2.5°	1388.0	1396.0	1394.9	1392.6	1389.1	1389.1	1391.4	1399.5	1400.6	1400.6	1400.6
5°	1404.1	1412.1	1411.0	1408.7	1405.2	1404.1	1406.4	1414.4	1415.6	1415.6	1416.7
7.5°	1422.4	1431.6	1431.6	1430.5	1422.4	1422.4	1424.7	1435.1	1435.1	1437.4	1439.7
10°	1453.5	1463.8	1467.3	1462.7	1458.1	1455.8	1458.1	1468.4	1467.3	1465.0	1466.1
12.5°	1496.0	1506.3	1514.4	1513.2	1508.6	1506.3	1508.6	1514.4	1507.5	1498.3	1498.3
15°	1548.8	1562.6	1571.8	1571.8	1577.6	1574.1	1570.7	1571.8	1561.5	1553.4	1553.4
17.5°	1616.6	1628.1	1636.2	1643.1	1652.2	1652.2	1644.2	1641.9	1628.1	1621.2	1622.4
20°	1699.4	1708.5	1720.0	1725.8	1744.2	1745.3	1731.5	1725.8	1712.0	1702.8	1705.1
22.5°	1789.0	1805.1	1809.7	1826.9	1848.7	1849.9	1831.5	1818.8	1805.1	1798.2	1799.3
25°	1897.0	1913.1	1909.6	1924.6	1957.9	1961.3	1940.6	1922.3	1910.8	1903.9	1906.2
27.5°	2015.3	2031.4	2030.3	2030.3	2069.3	2084.3	2055.5	2036.0	2038.3	2025.7	2030.3
30°	2141.7	2155.5	2163.5	2149.8	2187.7	2211.8	2165.8	2168.1	2167.0	2158.9	2157.8
32.5°	2289.9	2302.6	2301.4	2292.2	2303.7	2338.2	2301.4	2312.9	2316.4	2317.5	2326.7
35°	2458.8	2473.8	2457.7	2445.0	2446.2	2479.5	2451.9	2470.3	2488.7	2495.6	2495.6
37.5°	2639.2	2647.3	2630.0	2610.5	2605.9	2624.3	2619.7	2649.6	2680.6	2697.8	2707.0
40°	2872.5	2879.4	2846.0	2808.1	2801.2	2821.9	2827.7	2893.2	2940.3	2972.4	2978.2
42.5°	3196.5	3195.3	3148.2	3078.1	3044.8	3077.0	3118.4	3194.2	3273.5	3280.4	3304.5
45°	3613.6	3597.5	3536.6	3432.0	3348.1	3336.7	3386.1	3498.7	3587.1	3625.1	3640.0
47.5°	4089.2	4070.9	3960.6	3798.6	3654.9	3610.1	3651.5	3792.8	3924.9	3980.1	4010.0
50°	4620.1	4598.2	4486.8	4267.3	4028.3	3946.8	3972.0	4147.8	4301.8	4371.9	4424.8
52.5°	5191.1	5187.7	5045.2	4792.4	4473.0	4340.9	4332.8	4544.2	4751.1	4844.1	4872.9
55°	5803.5	5786.3	5658.8	5384.2	5014.2	4767.1	4768.3	5002.7	5255.5	5377.3	5391.0
57.5°	6404.5	6397.6	6256.2	6021.8	5643.8	5318.7	5286.5	5597.9	5852.9	5952.9	5957.5
60°	6972.1	6993.9	6920.4	6705.5	6401.0	6033.3	5986.2	6249.3	6466.5	6552.7	6583.7
62.5°	7604.0	7610.9	7601.7	7443.1	7211.0	6962.9	6846.8	6981.2	7196.1	7267.3	7252.4
65°	8055.6	8100.4	8204.9	8286.5	8237.1	8047.5	7894.7	7901.6	7944.1	7898.1	7894.7
67.5°	7479.9	7577.6	7933.8	8507.1	9182.7	9478.0	8857.5	8164.7	7907.3	7740.7	7739.6
70°	6535.4	6600.9	7045.6	8037.2	9517.1	9951.4	9251.6	7987.8	7483.4	7285.7	7215.6
72.5°	5560.0	5611.7	6101.1	7113.4	8986.2	9672.2	9000.0	7468.4	6804.3	6368.8	6376.9
75°	4630.4	4622.4	4992.4	6032.2	7954.4	8882.8	8333.6	6646.9	5701.3	5304.9	5260.1
77.5°	3210.3	3283.8	3704.3	4767.1	6449.3	7516.7	7436.2	5471.5	4369.6	3946.8	3974.3
80°	1682.1	1728.1	2226.7	3236.7	4718.9	5765.6	5659.9	3869.8	2823.1	2355.4	2267.0
82.5°	700.9	730.8	1018.0	1748.8	2884.0	3588.3	3540.0	2358.9	1574.1	1096.1	1093.8
85°	297.6	298.7	432.0	749.1	1455.8	1705.1	1368.4	1013.4	551.5	345.8	309.1
87.5°	126.4	131.0	175.8	343.5	460.7	372.3	219.5	135.6	90.8	55.2	42.5
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)