

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: P510146

Luminaire Tested: **VERD-M-CA4-210-750-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510146
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-CA4-210-750-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 960mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31574 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

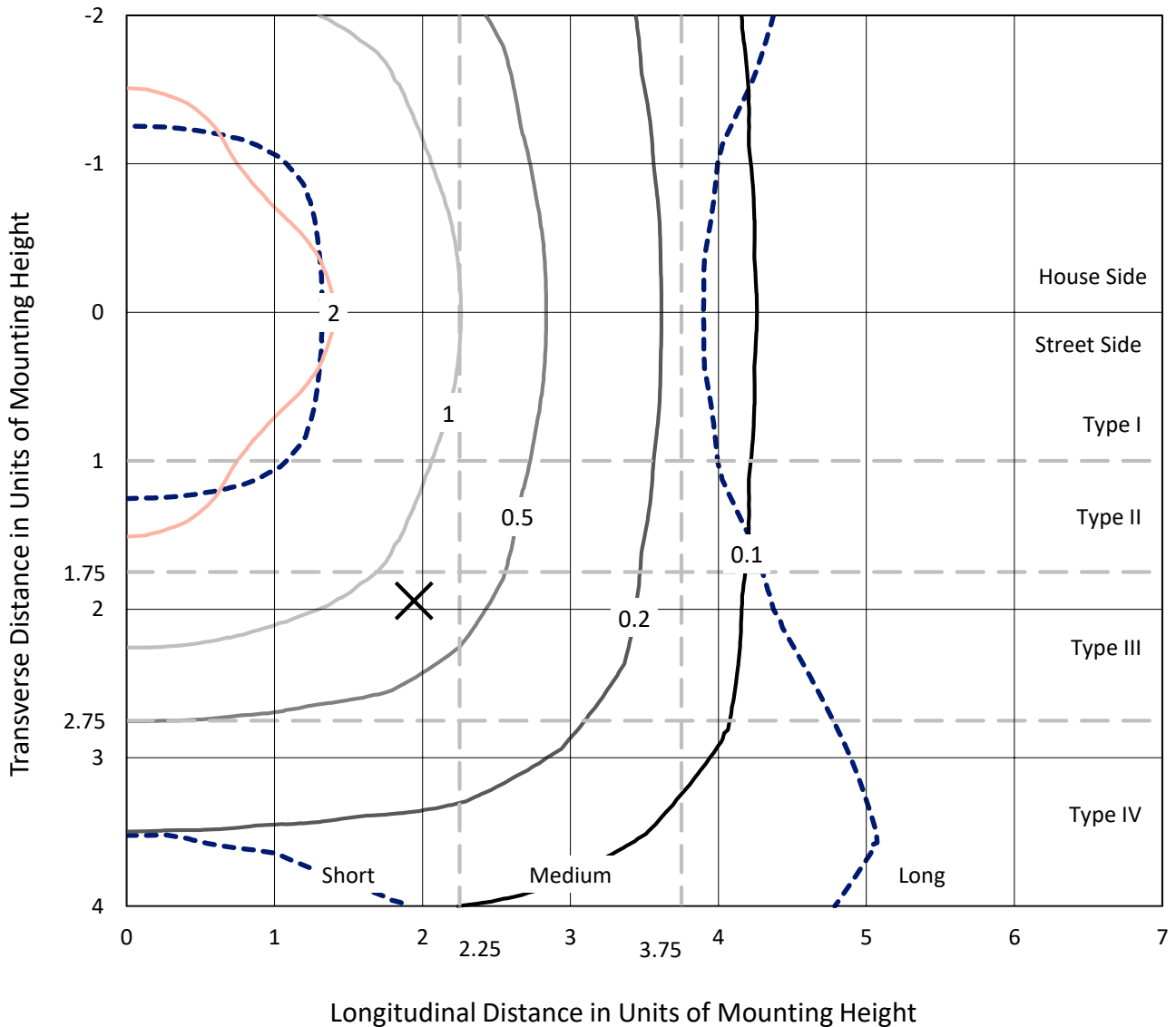
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510146
 CATALOG NUMBER: VERD-M-CA4-210-750-U-T5

Iso-Footcandle Lines of Horizontal Illumination

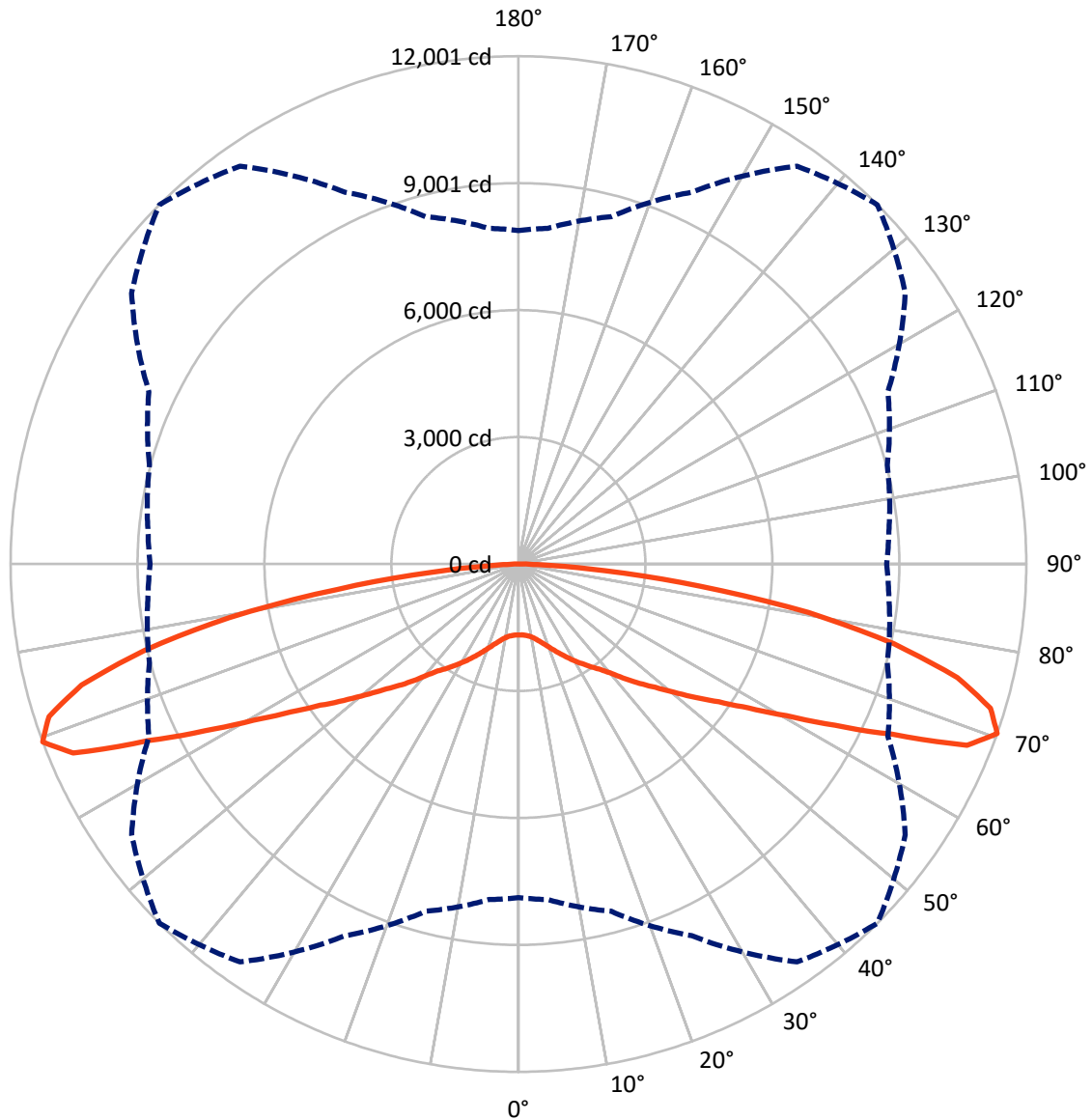
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P510146
CATALOG NUMBER: VERD-M-CA4-210-750-U-T5

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510146

CATALOG NUMBER: VERD-M-CA4-210-750-U-T5

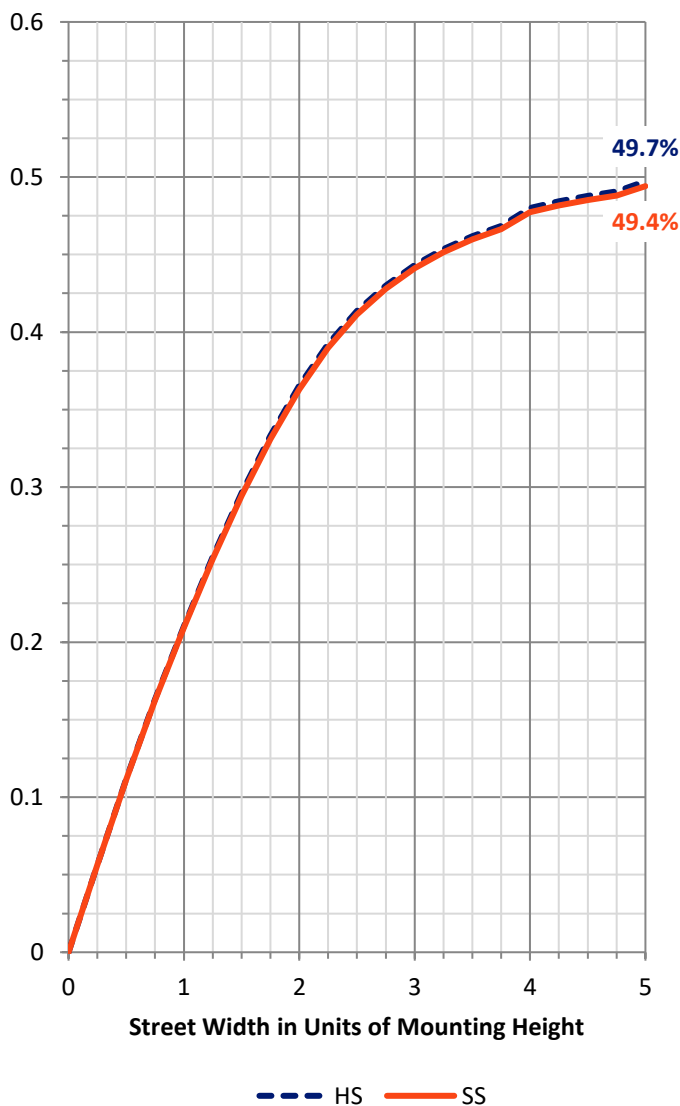
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15787.0	0.0	15787.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15787.0	0.0	15787.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31574.0	0.0	31574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	0.5
10°-20°	543.6	1.7
20°-30°	1087.2	3.4
30°-40°	1891.7	6.0
40°-50°	3291.1	10.4
50°-60°	5730.2	18.1
60°-70°	9280.5	29.4
70°-80°	7961.6	25.2
80°-90°	1624.0	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°	31574.0	100.0
0°-180°	31574.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510146

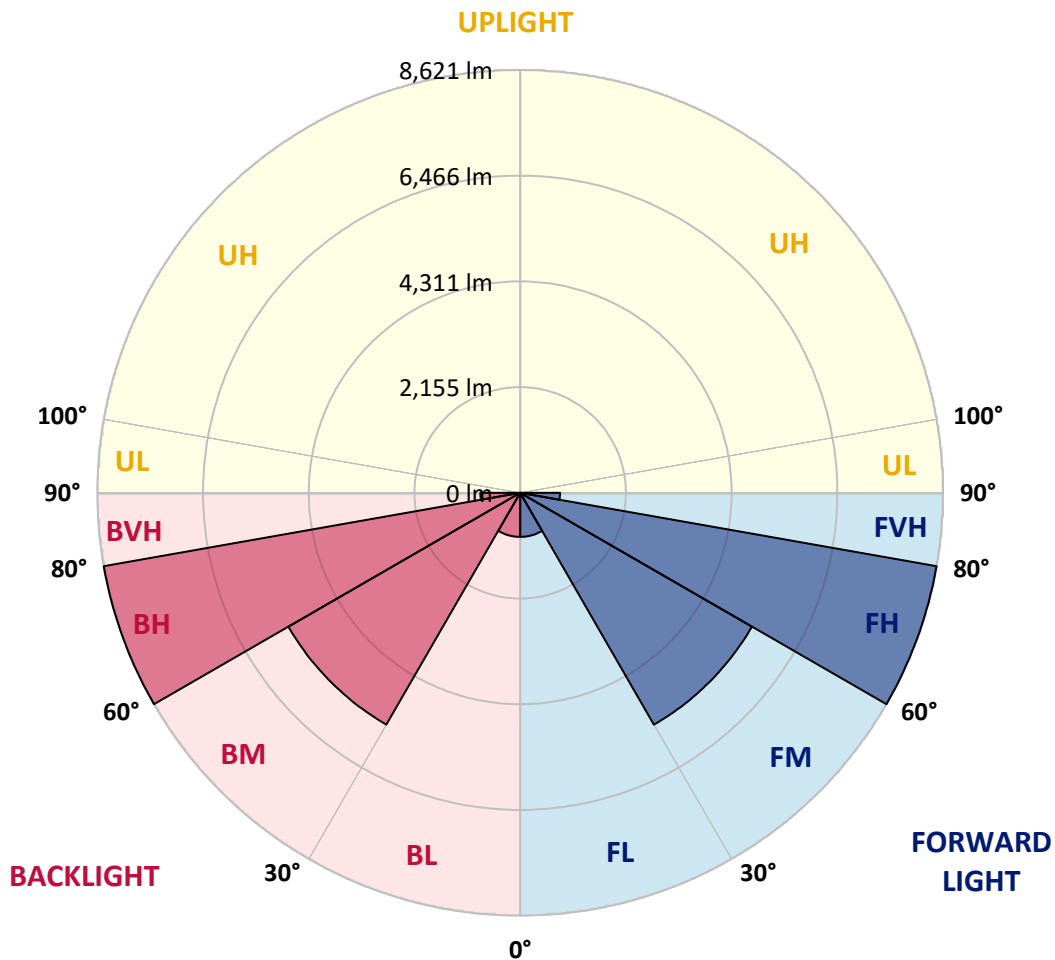
CATALOG NUMBER: VERD-M-CA4-210-750-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	897.5	2.8			
FM	(30°-60°)	5456.5	17.3			
FH	(60°-80°)	8621.0	27.3			G4/12000
FVH	(80°-90°)	812.0	2.6			G5
BL	(0°-30°)	897.5	2.8	B2/1000		
BM	(30°-60°)	5456.5	17.3	B4/8500		
BH	(60°-80°)	8621.0	27.3	B5		G4/12000
BVH	(80°-90°)	812.0	2.6			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P510146

CATALOG NUMBER: VERD-M-CA4-210-750-U-T5

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4
2.5°	1673.8	1683.5	1682.1	1679.4	1675.2	1675.2	1678.0	1687.7	1689.1	1689.1	1689.1
5°	1693.2	1702.9	1701.5	1698.8	1694.6	1693.2	1696.0	1705.7	1707.1	1707.1	1708.5
7.5°	1715.4	1726.5	1726.5	1725.1	1715.4	1715.4	1718.2	1730.6	1730.6	1733.4	1736.2
10°	1752.8	1765.3	1769.4	1763.9	1758.3	1755.6	1758.3	1770.8	1769.4	1766.7	1768.0
12.5°	1804.1	1816.5	1826.2	1824.9	1819.3	1816.5	1819.3	1826.2	1817.9	1806.8	1806.8
15°	1867.8	1884.4	1895.5	1895.5	1902.4	1898.3	1894.1	1895.5	1883.0	1873.3	1873.3
17.5°	1949.6	1963.4	1973.1	1981.4	1992.5	1992.5	1982.8	1980.0	1963.4	1955.1	1956.5
20°	2049.3	2060.4	2074.3	2081.2	2103.4	2104.7	2088.1	2081.2	2064.6	2053.5	2056.3
22.5°	2157.4	2176.8	2182.3	2203.1	2229.5	2230.8	2208.7	2193.4	2176.8	2168.5	2169.9
25°	2287.6	2307.0	2302.9	2320.9	2361.1	2365.2	2340.3	2318.1	2304.3	2296.0	2298.7
27.5°	2430.4	2449.8	2448.4	2448.4	2495.5	2513.5	2478.9	2455.3	2458.1	2442.8	2448.4
30°	2582.8	2599.4	2609.1	2592.5	2638.2	2667.3	2611.9	2614.7	2613.3	2603.6	2602.2
32.5°	2761.5	2776.8	2775.4	2764.3	2778.2	2819.7	2775.4	2789.2	2793.4	2794.8	2805.9
35°	2965.2	2983.2	2963.8	2948.6	2950.0	2990.2	2956.9	2979.1	3001.2	3009.6	3009.6
37.5°	3182.8	3192.5	3171.7	3148.1	3142.6	3164.7	3159.2	3195.2	3232.6	3253.4	3264.5
40°	3464.0	3472.3	3432.2	3386.4	3378.1	3403.1	3410.0	3489.0	3545.8	3584.6	3591.5
42.5°	3854.8	3853.4	3796.6	3712.1	3671.9	3710.7	3760.6	3852.0	3947.6	3955.9	3985.0
45°	4357.8	4338.4	4264.9	4138.8	4037.7	4023.8	4083.4	4219.2	4325.9	4371.6	4389.6
47.5°	4931.4	4909.2	4776.2	4580.8	4407.6	4353.6	4403.5	4573.9	4733.3	4799.8	4835.8
50°	5571.6	5545.2	5410.8	5146.2	4858.0	4759.6	4790.1	5002.1	5187.7	5272.3	5336.0
52.5°	6260.2	6256.0	6084.2	5779.4	5394.2	5234.8	5225.1	5480.1	5729.5	5841.7	5876.4
55°	6998.7	6977.9	6824.1	6493.0	6046.8	5748.9	5750.3	6033.0	6337.8	6484.7	6501.3
57.5°	7723.4	7715.1	7544.7	7262.0	6806.1	6414.0	6375.2	6750.7	7058.3	7178.9	7184.4
60°	8407.9	8434.2	8345.5	8086.4	7719.3	7275.9	7219.0	7536.4	7798.2	7902.2	7939.6
62.5°	9170.0	9178.3	9167.2	8976.0	8696.1	8396.8	8256.9	8419.0	8678.1	8764.0	8746.0
65°	9714.5	9768.6	9894.7	9993.0	9933.5	9704.8	9520.5	9528.9	9580.1	9524.7	9520.5
67.5°	9020.3	9138.1	9567.7	10259.1	11073.8	11429.9	10681.7	9846.2	9535.8	9334.9	9333.5
70°	7881.4	7960.3	8496.6	9692.4	11477.0	12000.8	11157.0	9632.8	9024.5	8786.2	8701.7
72.5°	6705.0	6767.3	7357.6	8578.3	10836.9	11664.1	10853.5	9006.5	8205.6	7680.5	7690.2
75°	5584.0	5574.3	6020.5	7274.5	9592.6	10712.2	10049.9	8015.8	6875.4	6397.4	6343.3
77.5°	3871.4	3960.1	4467.2	5748.9	7777.4	9064.7	8967.7	6598.3	5269.5	4759.6	4792.8
80°	2028.5	2084.0	2685.3	3903.3	5690.7	6953.0	6825.5	4666.7	3404.5	2840.5	2733.8
82.5°	845.2	881.3	1227.7	2108.9	3477.9	4327.3	4269.1	2844.7	1898.3	1321.9	1319.1
85°	358.9	360.3	521.0	903.4	1755.6	2056.3	1650.3	1222.1	665.1	417.1	372.7
87.5°	152.4	158.0	212.0	414.3	555.6	448.9	264.7	163.5	109.5	66.5	51.3
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)