

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: P510274

Luminaire Tested: **VERD-M-CA4-240-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510274
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-CA4-240-730-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1090mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33812 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

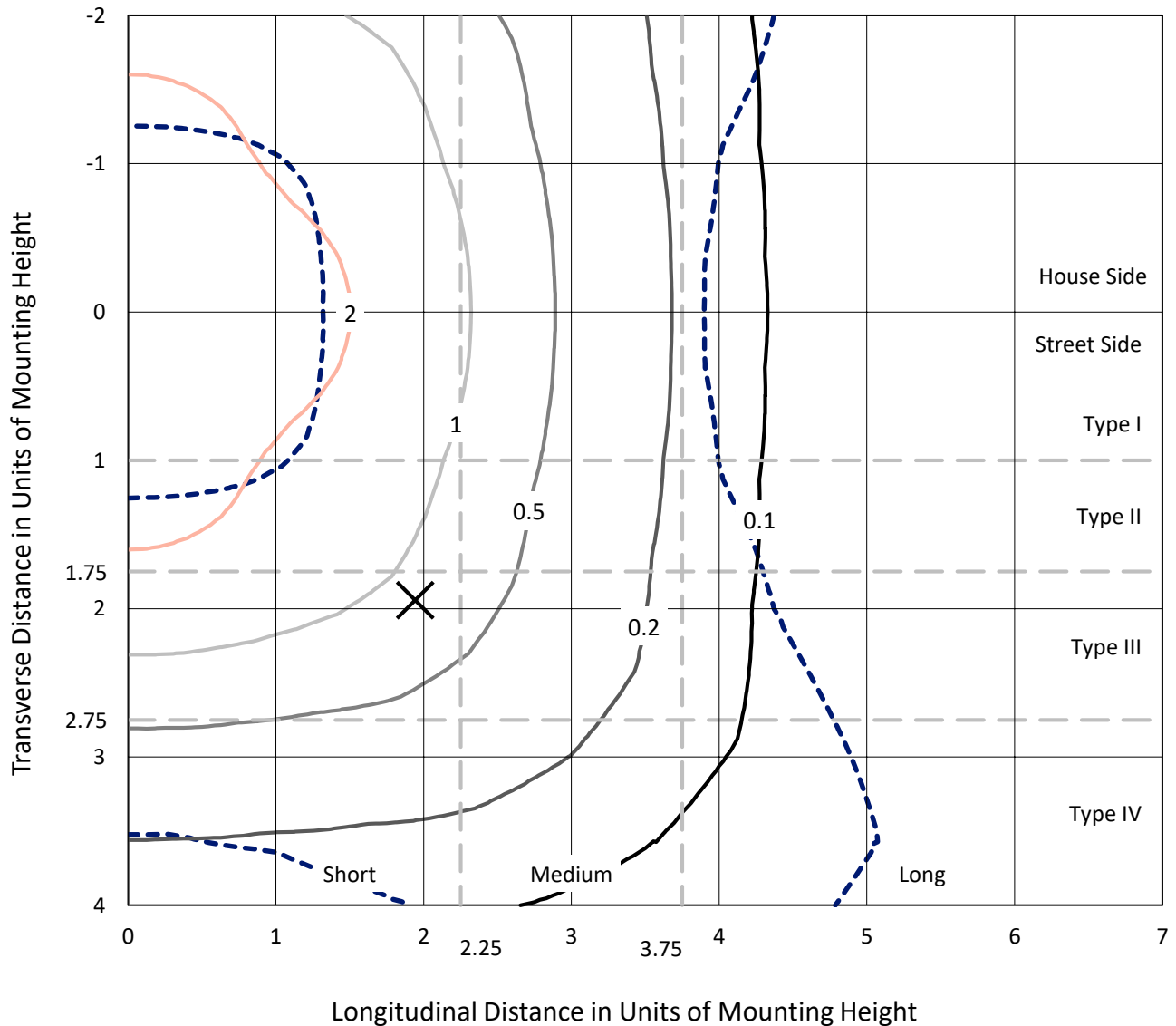
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510274
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Iso-Footcandle Lines of Horizontal Illumination

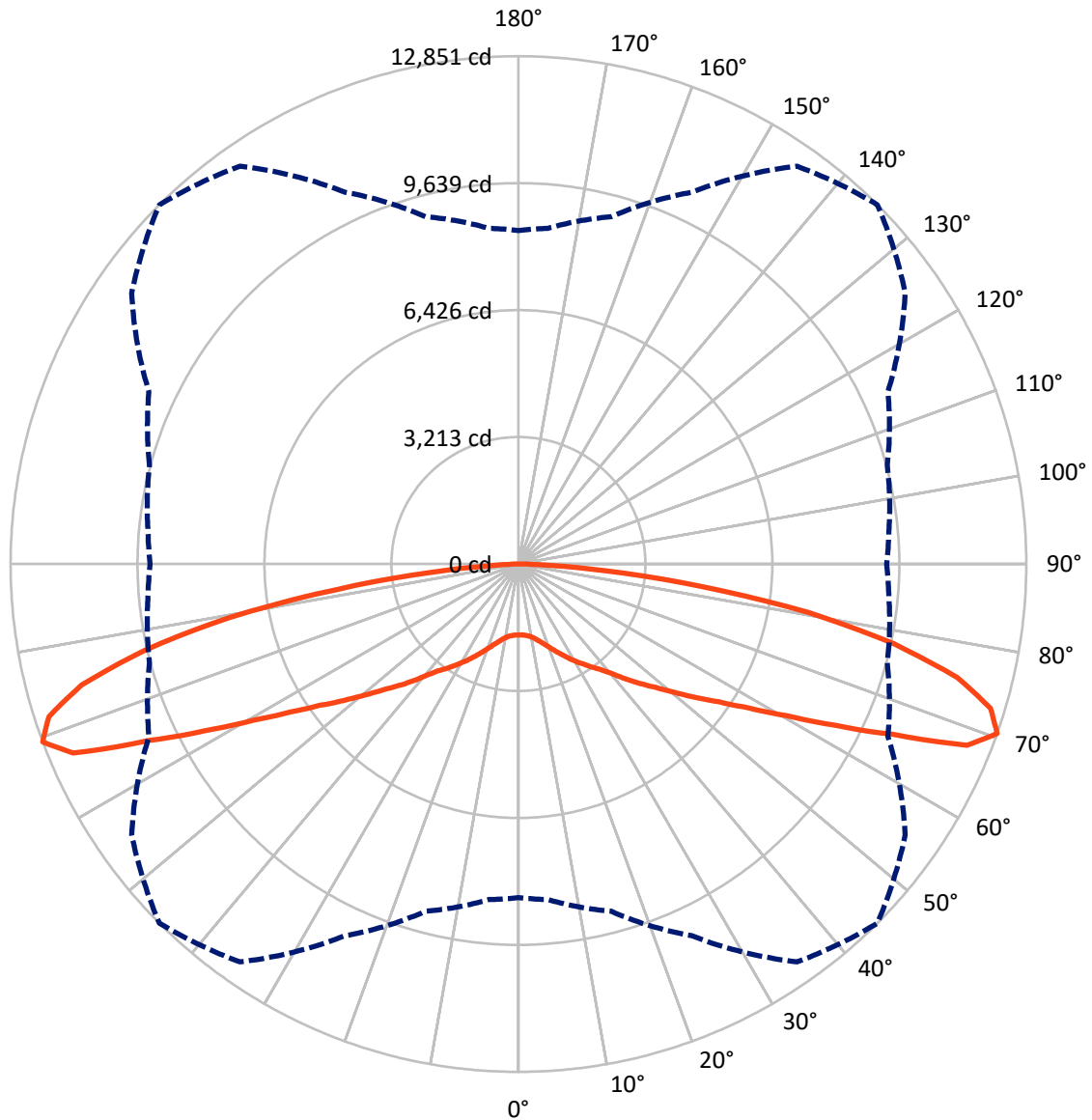
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

REPORT NUMBER: P510274
CATALOG NUMBER: VERD-M-CA4-240-730-U-T5

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	16906.0	0.0	16906.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16906.0	0.0	16906.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33812.0	0.0	33812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	0.5
10°-20°	582.1	1.7
20°-30°	1164.2	3.4
30°-40°	2025.7	6.0
40°-50°	3524.4	10.4
50°-60°	6136.3	18.1
60°-70°	9938.3	29.4
70°-80°	8525.9	25.2
80°-90°	1739.1	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°	33812.0	100.0
0°-180°	33812.0	100.0



REPORT NUMBER: P510274

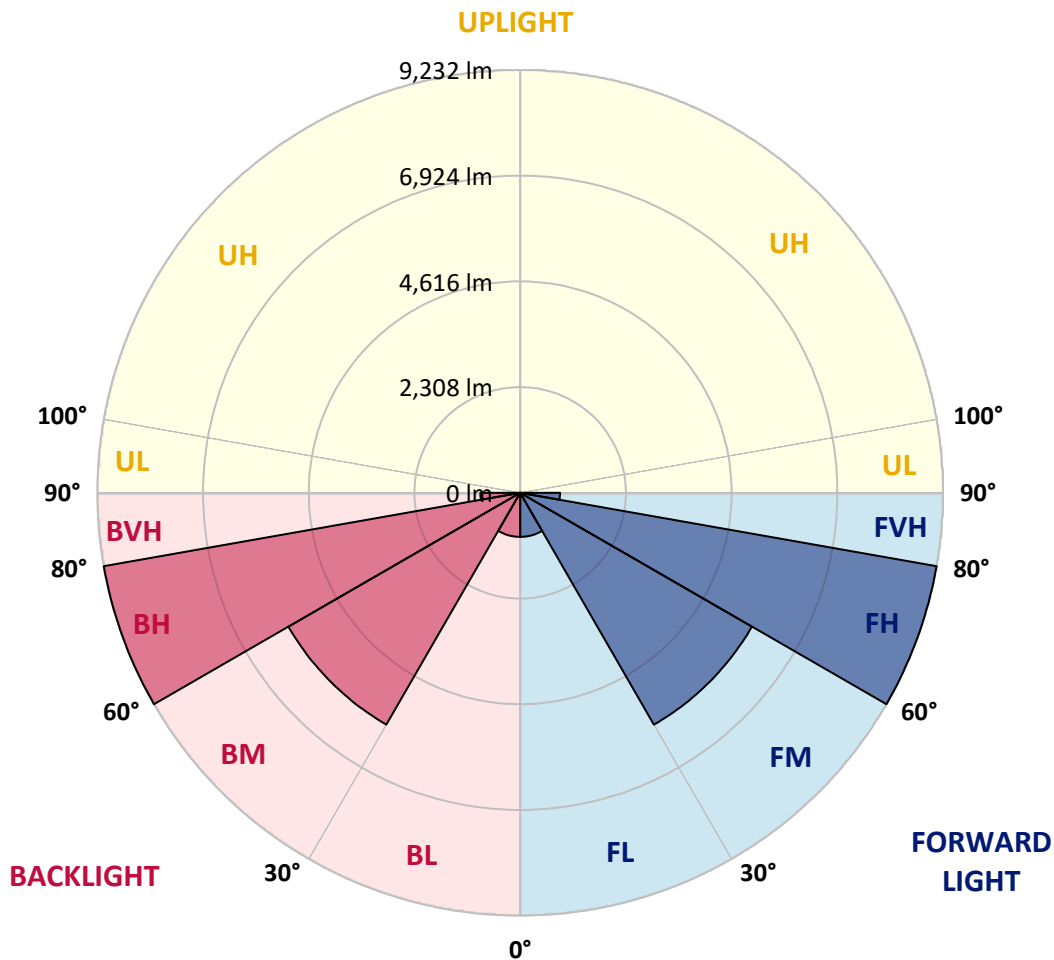
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	961.1	2.8			
FM	(30°-60°)	5843.2	17.3			
FH	(60°-80°)	9232.1	27.3			G4/12000
FVH	(80°-90°)	869.5	2.6			G5
BL	(0°-30°)	961.1	2.8	B2/1000		
BM	(30°-60°)	5843.2	17.3	B4/8500		
BH	(60°-80°)	9232.1	27.3	B5		G4/12000
BVH	(80°-90°)	869.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4
2.5°	1792.5	1802.9	1801.4	1798.4	1793.9	1793.9	1796.9	1807.3	1808.8	1808.8	1808.8
5°	1813.2	1823.6	1822.1	1819.2	1814.7	1813.2	1816.2	1826.6	1828.1	1828.1	1829.6
7.5°	1837.0	1848.8	1848.8	1847.4	1837.0	1837.0	1839.9	1853.3	1853.3	1856.3	1859.2
10°	1877.0	1890.4	1894.8	1888.9	1883.0	1880.0	1883.0	1896.3	1894.8	1891.9	1893.4
12.5°	1931.9	1945.3	1955.7	1954.2	1948.3	1945.3	1948.3	1955.7	1946.8	1934.9	1934.9
15°	2000.2	2018.0	2029.9	2029.9	2037.3	2032.8	2028.4	2029.9	2016.5	2006.1	2006.1
17.5°	2087.7	2102.6	2113.0	2121.9	2133.7	2133.7	2123.4	2120.4	2102.6	2093.7	2095.2
20°	2194.6	2206.5	2221.3	2228.7	2252.4	2253.9	2236.1	2228.7	2210.9	2199.0	2202.0
22.5°	2310.3	2331.1	2337.0	2359.3	2387.5	2389.0	2365.2	2348.9	2331.1	2322.2	2323.7
25°	2449.8	2470.6	2466.1	2485.4	2528.4	2532.9	2506.2	2482.4	2467.6	2458.7	2461.7
27.5°	2602.6	2623.4	2621.9	2621.9	2672.4	2691.7	2654.6	2629.3	2632.3	2616.0	2621.9
30°	2765.9	2783.7	2794.0	2776.2	2825.2	2856.4	2797.0	2800.0	2798.5	2788.1	2786.6
32.5°	2957.3	2973.6	2972.1	2960.2	2975.1	3019.6	2972.1	2986.9	2991.4	2992.9	3004.8
35°	3175.4	3194.7	3173.9	3157.6	3159.1	3202.1	3166.5	3190.2	3214.0	3222.9	3222.9
37.5°	3408.4	3418.7	3396.5	3371.3	3365.3	3389.1	3383.1	3421.7	3461.8	3484.0	3495.9
40°	3709.6	3718.5	3675.4	3626.5	3617.6	3644.3	3651.7	3736.3	3797.1	3838.7	3846.1
42.5°	4128.0	4126.5	4065.7	3975.2	3932.1	3973.7	4027.1	4125.0	4227.4	4236.3	4267.5
45°	4666.6	4645.9	4567.2	4432.2	4323.9	4309.0	4372.8	4518.3	4632.5	4681.5	4700.8
47.5°	5280.9	5257.2	5114.8	4905.5	4720.1	4662.2	4715.6	4898.1	5068.8	5140.0	5178.6
50°	5966.5	5938.3	5794.3	5510.9	5202.3	5096.9	5129.6	5356.6	5555.4	5646.0	5714.2
52.5°	6703.9	6699.5	6515.5	6189.0	5776.5	5605.9	5595.5	5868.5	6135.6	6255.8	6292.9
55°	7494.8	7472.6	7307.8	6953.2	6475.4	6156.4	6157.9	6460.6	6787.0	6944.3	6962.1
57.5°	8270.9	8261.9	8079.4	7776.7	7288.6	6868.6	6827.1	7229.2	7558.6	7687.7	7693.6
60°	9003.9	9032.1	8937.1	8659.6	8266.4	7791.6	7730.7	8070.5	8351.0	8462.3	8502.3
62.5°	9820.0	9828.9	9817.0	9612.2	9312.5	8992.0	8842.1	9015.7	9293.2	9385.2	9365.9
65°	10403.1	10461.0	10596.0	10701.4	10637.6	10392.7	10195.4	10204.3	10259.2	10199.8	10195.4
67.5°	9659.7	9785.8	10245.8	10986.3	11858.7	12240.1	11438.8	10544.1	10211.7	9996.5	9995.1
70°	8440.0	8524.6	9098.8	10379.4	12290.5	12851.4	11947.8	10315.6	9664.2	9408.9	9318.4
72.5°	7180.2	7247.0	7879.1	9186.4	11605.0	12490.9	11622.8	9644.9	8787.2	8224.9	8235.2
75°	5979.8	5969.4	6447.2	7790.1	10272.5	11471.5	10762.2	8583.9	7362.8	6850.8	6793.0
77.5°	4145.8	4240.8	4783.9	6156.4	8328.7	9707.2	9603.3	7066.0	5643.0	5096.9	5132.6
80°	2172.3	2231.7	2875.7	4179.9	6094.1	7445.8	7309.3	4997.5	3645.8	3041.8	2927.6
82.5°	905.1	943.7	1314.7	2258.4	3724.4	4634.0	4571.7	3046.3	2032.8	1415.6	1412.6
85°	384.3	385.8	557.9	967.5	1880.0	2202.0	1767.2	1308.7	712.2	446.6	399.1
87.5°	163.2	169.2	227.0	443.7	595.0	480.8	283.4	175.1	117.2	71.2	54.9
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)