

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: P510234

Luminaire Tested: **VERD-M-CA4-230-740-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510234
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-CA4-230-740-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33370 lumens
Efficiency: N/A
Efficacy: 143.0 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): 233.3
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

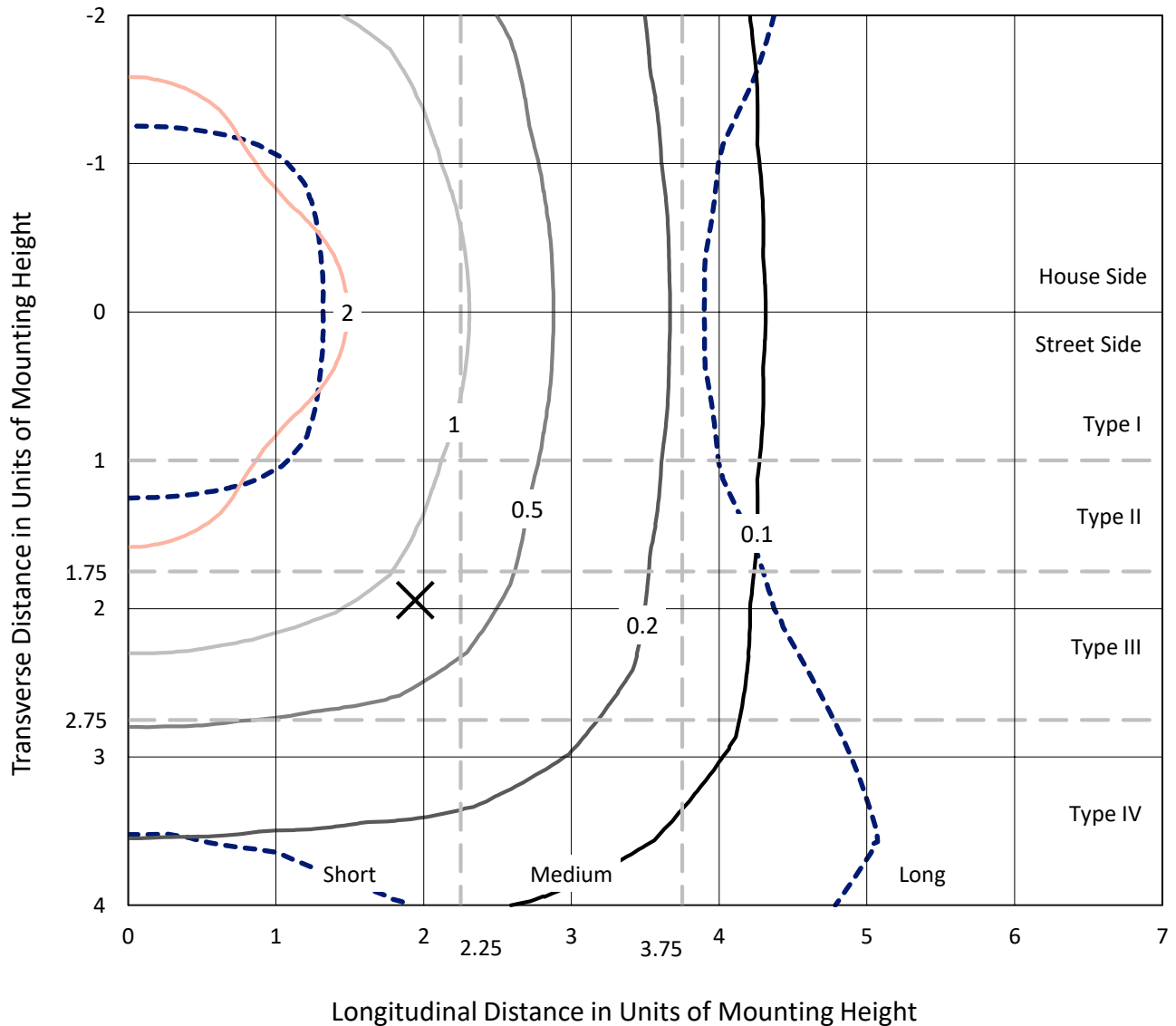


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Iso-Footcandle Lines of Horizontal Illumination

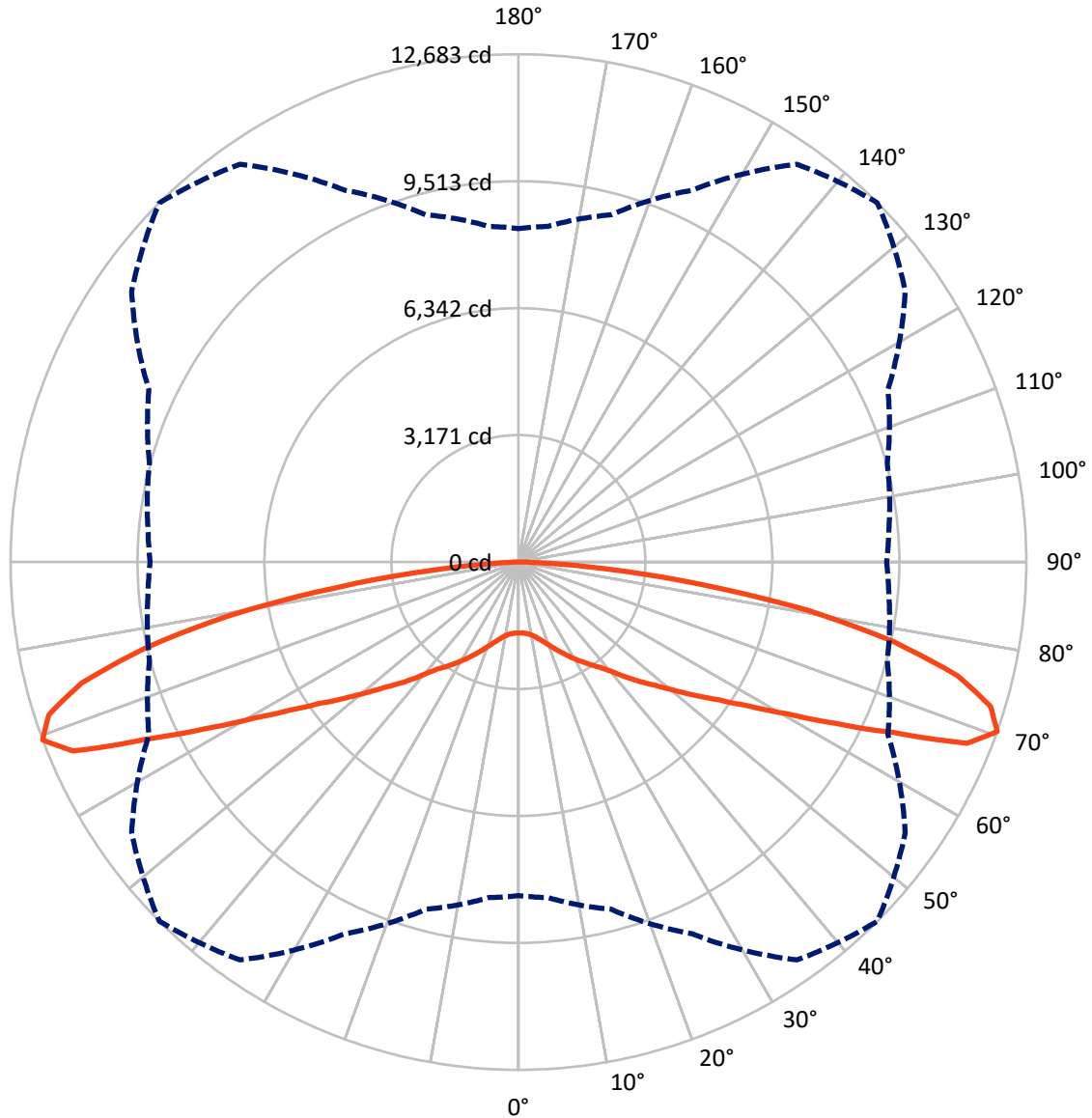
✕ Max cd
 - - - 1/2 Max cd



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

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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	16685.0	0.0	16685.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16685.0	0.0	16685.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33370.0	0.0	33370.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	0.5
10°-20°	574.5	1.7
20°-30°	1149.0	3.4
30°-40°	1999.3	6.0
40°-50°	3478.3	10.4
50°-60°	6056.1	18.1
60°-70°	9808.4	29.4
70°-80°	8414.5	25.2
80°-90°	1716.3	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°	33370.0	100.0
0°-180°	33370.0	100.0



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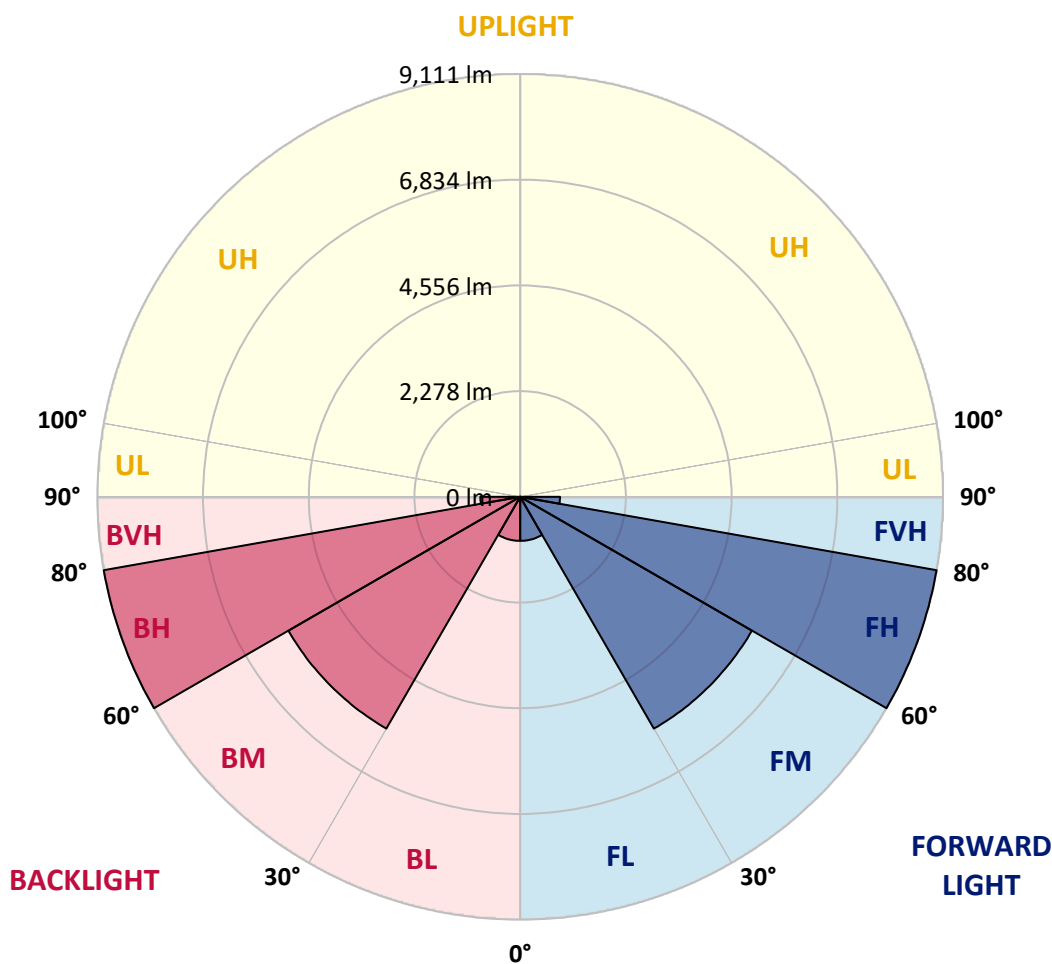
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	948.6	2.8			
FM	(30°-60°)	5766.8	17.3			
FH	(60°-80°)	9111.4	27.3			G4/12000
FVH	(80°-90°)	858.2	2.6			G5
BL	(0°-30°)	948.6	2.8	B2/1000		
BM	(30°-60°)	5766.8	17.3	B4/8500		
BH	(60°-80°)	9111.4	27.3	B5		G4/12000
BVH	(80°-90°)	858.2	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°	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1769.0	1779.3	1777.8	1774.9	1770.5	1770.5	1773.4	1783.7	1785.1	1785.1	1785.1
5°	1789.5	1799.8	1798.3	1795.4	1791.0	1789.5	1792.5	1802.7	1804.2	1804.2	1805.6
7.5°	1813.0	1824.7	1824.7	1823.2	1813.0	1813.0	1815.9	1829.1	1829.1	1832.0	1834.9
10°	1852.5	1865.7	1870.1	1864.2	1858.4	1855.4	1858.4	1871.5	1870.1	1867.1	1868.6
12.5°	1906.7	1919.9	1930.1	1928.7	1922.8	1919.9	1922.8	1930.1	1921.3	1909.6	1909.6
15°	1974.1	1991.6	2003.3	2003.3	2010.7	2006.3	2001.9	2003.3	1990.2	1979.9	1979.9
17.5°	2060.5	2075.1	2085.3	2094.1	2105.9	2105.9	2095.6	2092.7	2075.1	2066.3	2067.8
20°	2165.9	2177.6	2192.3	2199.6	2223.0	2224.5	2206.9	2199.6	2182.0	2170.3	2173.2
22.5°	2280.1	2300.6	2306.5	2328.4	2356.3	2357.7	2334.3	2318.2	2300.6	2291.8	2293.3
25°	2417.8	2438.3	2433.9	2452.9	2495.4	2499.8	2473.4	2450.0	2435.3	2426.6	2429.5
27.5°	2568.6	2589.1	2587.6	2587.6	2637.4	2656.5	2619.9	2595.0	2597.9	2581.8	2587.6
30°	2729.7	2747.3	2757.5	2739.9	2788.3	2819.0	2760.5	2763.4	2761.9	2751.7	2750.2
32.5°	2918.6	2934.7	2933.3	2921.5	2936.2	2980.1	2933.3	2947.9	2952.3	2953.8	2965.5
35°	3133.9	3152.9	3132.4	3116.3	3117.8	3160.2	3125.1	3148.5	3172.0	3180.7	3180.7
37.5°	3363.8	3374.0	3352.1	3327.2	3321.3	3344.8	3338.9	3377.0	3416.5	3438.5	3450.2
40°	3661.1	3669.9	3627.4	3579.1	3570.3	3596.6	3604.0	3687.4	3747.5	3788.5	3795.8
42.5°	4074.0	4072.6	4012.5	3923.2	3880.7	3921.7	3974.5	4071.1	4172.2	4180.9	4211.7
45°	4605.6	4585.1	4507.5	4374.3	4267.3	4252.7	4315.7	4459.2	4572.0	4620.3	4639.3
47.5°	5211.9	5188.5	5047.9	4841.4	4658.4	4601.2	4654.0	4834.1	5002.5	5072.8	5110.9
50°	5888.5	5860.6	5718.6	5438.9	5134.3	5030.3	5062.5	5286.6	5482.8	5572.2	5639.5
52.5°	6616.3	6611.9	6430.3	6108.1	5701.0	5532.6	5522.4	5791.8	6055.4	6174.0	6210.6
55°	7396.8	7374.9	7212.3	6862.3	6390.8	6075.9	6077.4	6376.1	6698.3	6853.5	6871.1
57.5°	8162.7	8153.9	7973.8	7675.1	7193.3	6778.8	6737.8	7134.7	7459.8	7587.2	7593.1
60°	8886.2	8914.0	8820.3	8546.4	8158.3	7689.7	7629.7	7965.0	8241.8	8351.6	8391.2
62.5°	9691.6	9700.4	9688.7	9486.6	9190.8	8874.4	8726.5	8897.9	9171.7	9262.5	9243.5
65°	10267.1	10324.2	10457.5	10561.5	10498.5	10256.9	10062.1	10070.9	10125.1	10066.5	10062.1
67.5°	9533.4	9657.9	10111.9	10842.6	11703.7	12080.1	11289.3	10406.2	10078.2	9865.9	9864.4
70°	8329.7	8413.2	8979.9	10243.7	12129.9	12683.4	11791.6	10180.7	9537.8	9286.0	9196.6
72.5°	7086.4	7152.3	7776.1	9066.3	11453.3	12327.6	11470.9	9518.8	8672.4	8117.3	8127.6
75°	5901.7	5891.4	6362.9	7688.3	10138.2	11321.5	10621.5	8471.7	7266.5	6761.3	6704.2
77.5°	4091.6	4185.3	4721.3	6075.9	8219.8	9580.3	9477.8	6973.6	5569.2	5030.3	5065.5
80°	2143.9	2202.5	2838.1	4125.3	6014.4	7348.5	7213.8	4932.2	3598.1	3002.1	2889.3
82.5°	893.3	931.4	1297.5	2228.9	3675.7	4573.4	4511.9	3006.5	2006.3	1397.1	1394.1
85°	379.3	380.8	550.6	954.8	1855.4	2173.2	1744.1	1291.6	702.9	440.8	393.9
87.5°	161.1	166.9	224.1	437.9	587.2	474.5	279.7	172.8	115.7	70.3	54.2
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)