

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: P510291

Luminaire Tested: **VERD-M-CA4-240-760-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-760-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35367 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

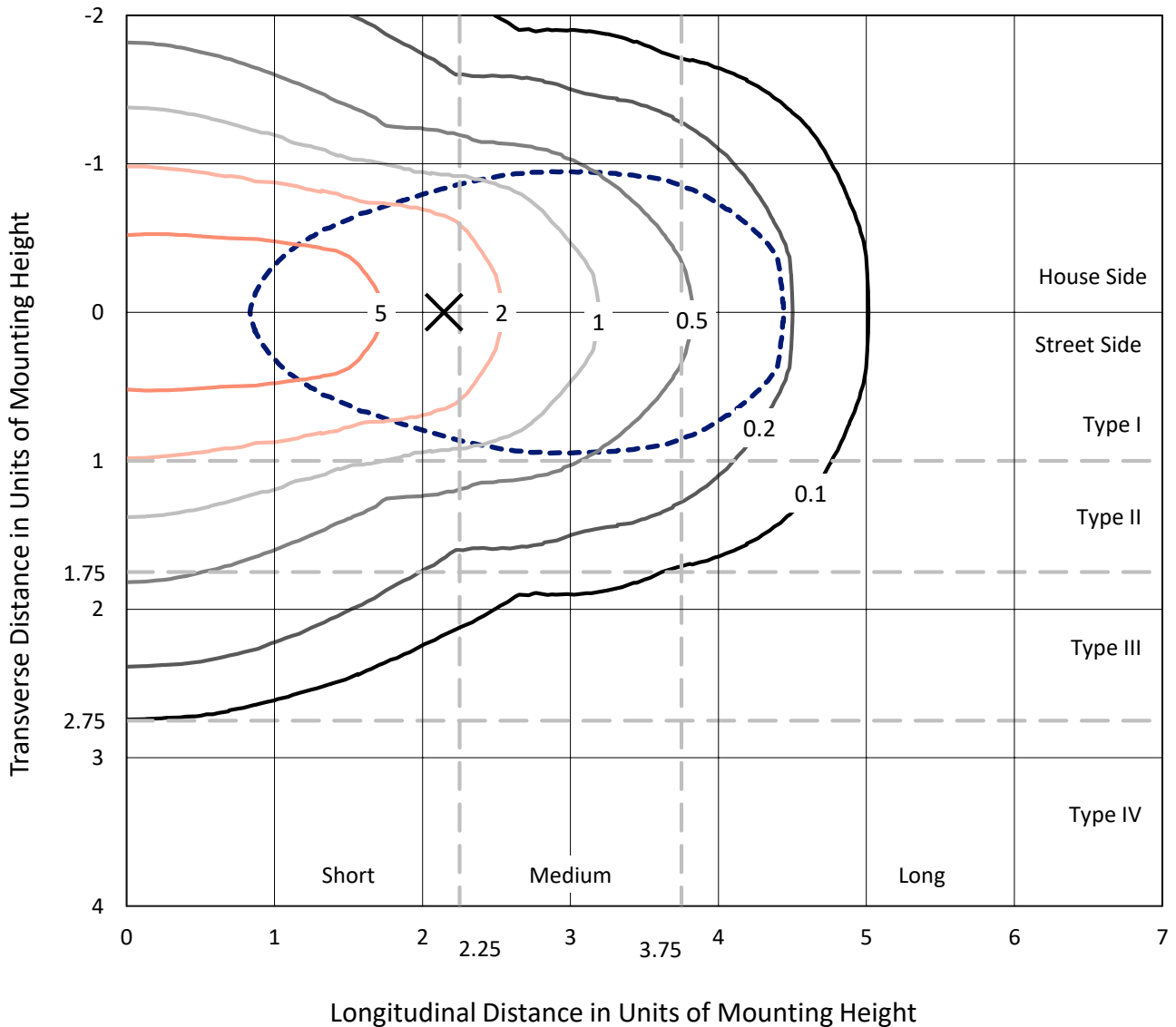
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

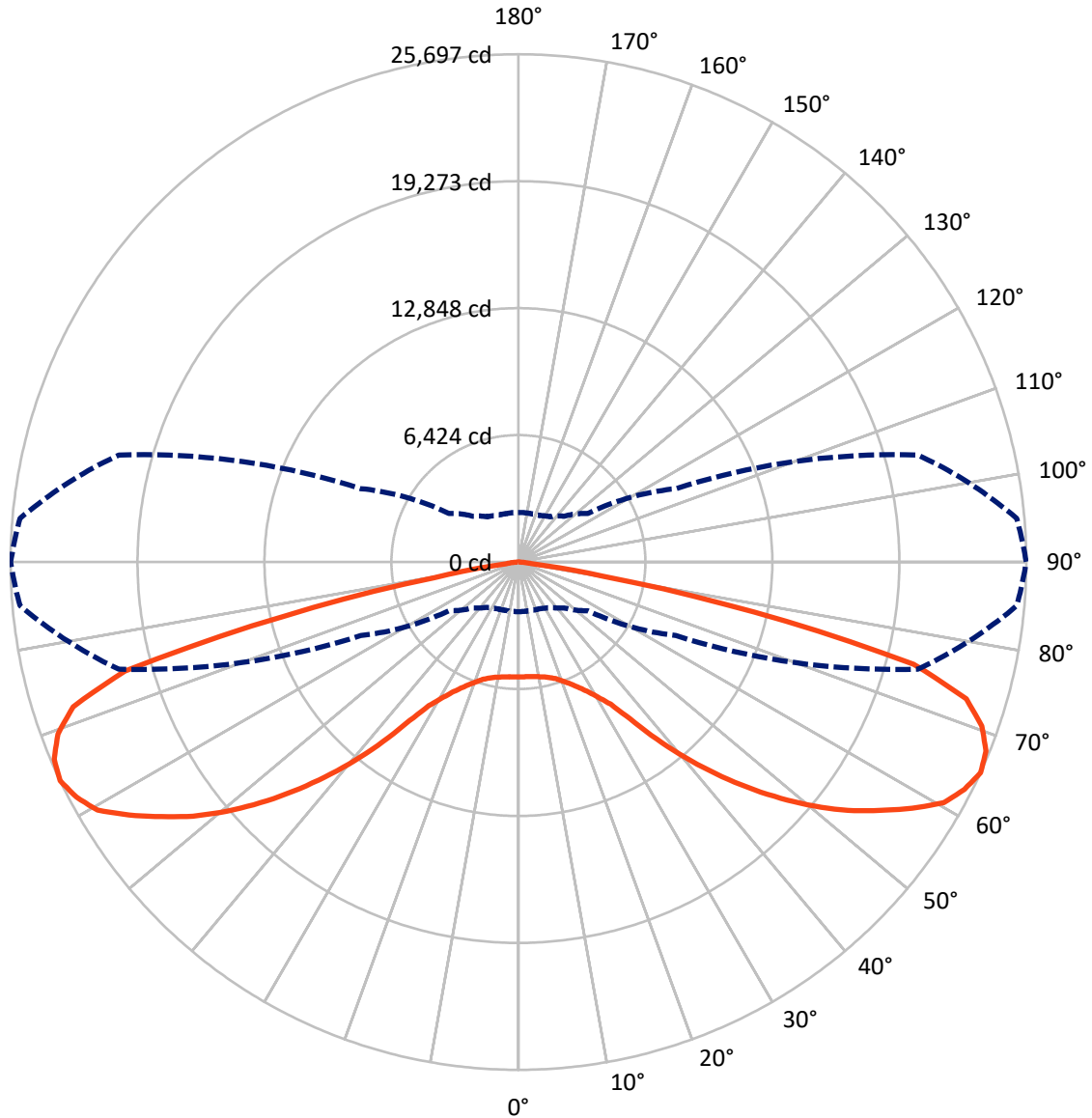
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17683.5	0.0	17683.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17683.5	0.0	17683.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35367.0	0.0	35367.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.8	1.6
10°-20°	1644.3	4.6
20°-30°	2714.7	7.7
30°-40°	3977.7	11.2
40°-50°	5802.2	16.4
50°-60°	7512.0	21.2
60°-70°	7914.4	22.4
70°-80°	4830.4	13.7
80°-90°	417.6	1.2
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°	35367.0	100.0
0°-180°	35367.0	100.0



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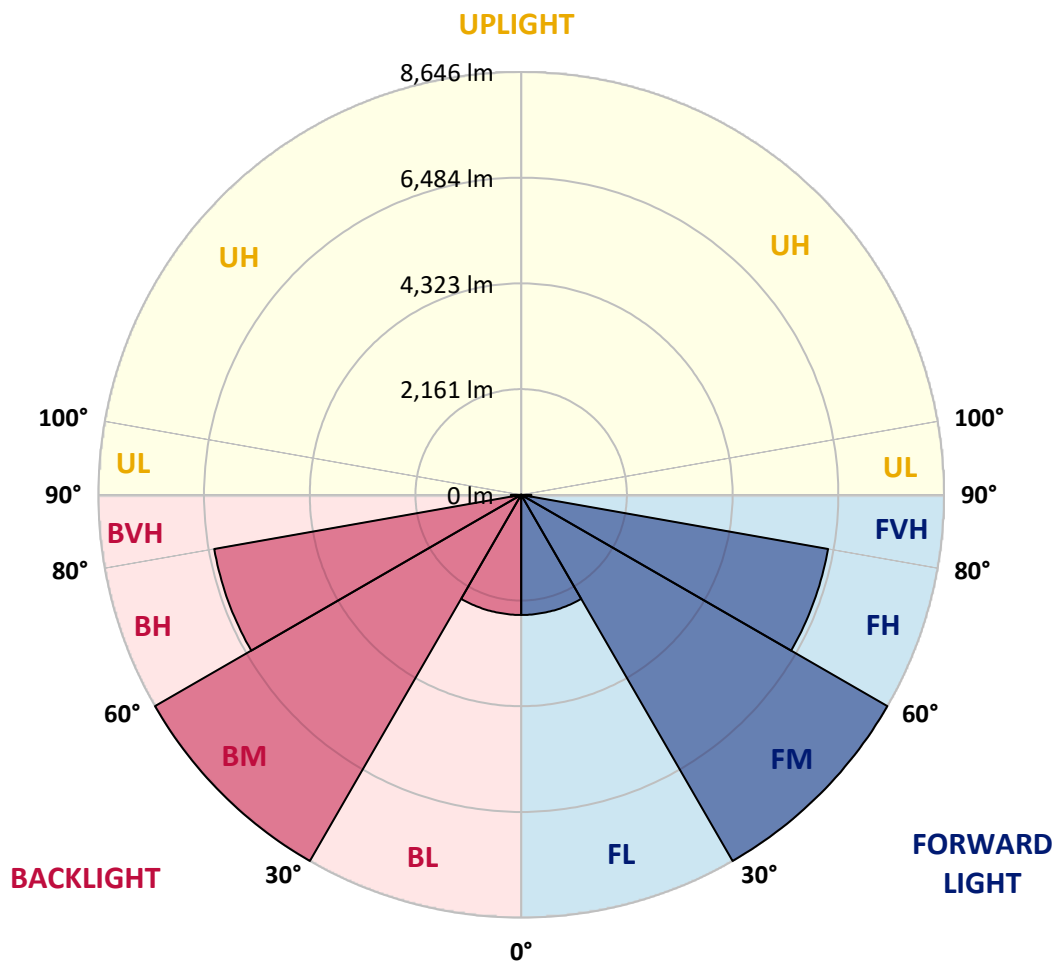
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2456.4	6.9			
FM	(30°-60°)	8646.0	24.4			
FH	(60°-80°)	6372.4	18.0			G3/7500
FVH	(80°-90°)	208.8	0.6			G2/225
BL	(0°-30°)	2456.4	6.9	B3/2500		
BM	(30°-60°)	8646.0	24.4	B5		
BH	(60°-80°)	6372.4	18.0	B5		G5
BVH	(80°-90°)	208.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5818.7	5818.7	5818.7	5818.7	5818.7	5818.7	5818.7	5818.7	5818.7	5818.7	5818.7
2.5°	5770.5	5817.2	5824.7	5805.1	5806.6	5803.6	5815.7	5820.2	5826.2	5817.2	5812.6
5°	5761.4	5802.1	5809.6	5800.6	5812.6	5809.6	5815.7	5826.2	5824.7	5821.7	5821.7
7.5°	5713.2	5743.4	5767.5	5761.4	5764.4	5784.0	5805.1	5839.8	5856.3	5856.3	5853.3
10°	5650.0	5681.6	5722.3	5713.2	5732.8	5773.5	5815.7	5851.8	5894.0	5903.0	5903.0
12.5°	5582.2	5625.9	5665.0	5674.1	5719.3	5765.9	5842.8	5898.5	5946.7	5967.8	5966.3
15°	5491.8	5529.5	5576.2	5609.3	5681.6	5782.5	5883.4	5969.3	6038.6	6067.2	6071.7
17.5°	5371.3	5412.0	5461.7	5531.0	5657.5	5802.1	5958.7	6074.7	6180.2	6210.3	6210.3
20°	5213.2	5256.8	5317.1	5424.0	5595.7	5821.7	6031.0	6213.3	6350.4	6421.2	6431.7
22.5°	4967.6	5015.8	5113.7	5299.0	5524.9	5818.7	6116.9	6376.0	6582.3	6674.2	6684.8
25°	4695.0	4756.8	4895.3	5139.3	5437.6	5815.7	6202.8	6559.7	6835.4	6977.0	7007.1
27.5°	4454.0	4512.7	4682.9	4984.2	5356.2	5821.7	6288.6	6770.6	7168.3	7371.6	7397.2
30°	4217.5	4270.2	4460.0	4818.5	5280.9	5829.2	6398.6	7013.1	7546.3	7856.6	7918.4
32.5°	4023.2	4075.9	4259.7	4642.3	5189.1	5845.8	6538.7	7337.0	8072.0	8536.0	8575.1
35°	3853.0	3913.3	4074.4	4464.5	5067.0	5869.9	6714.9	7761.7	8825.2	9680.7	9725.9
37.5°	3705.4	3753.6	3896.7	4276.3	4939.0	5874.4	6919.7	8260.3	9798.2	11061.9	11370.7
40°	3607.5	3640.6	3750.6	4103.0	4770.3	5836.7	7154.7	8817.6	10882.7	12666.1	13018.6
42.5°	3518.6	3548.7	3636.1	3943.4	4594.1	5764.4	7373.1	9390.0	11968.7	14304.9	14637.8
45°	3411.7	3435.8	3524.6	3807.8	4422.4	5653.0	7553.9	9920.2	13092.4	15951.2	16264.6
47.5°	3324.3	3342.4	3417.7	3685.8	4231.1	5473.7	7630.7	10400.7	14297.4	17474.1	17862.7
50°	3264.1	3258.0	3324.3	3559.3	4035.3	5223.7	7565.9	10756.2	15567.2	18998.4	19417.1
52.5°	3160.1	3166.1	3229.4	3428.2	3872.6	4914.9	7312.9	11006.2	16844.5	20390.2	20885.7
55°	3053.2	3062.2	3111.9	3291.2	3700.9	4621.2	6844.4	11040.9	18180.5	21845.2	22182.6
57.5°	2938.7	2943.2	2985.4	3143.6	3509.6	4316.9	6254.0	10820.9	19420.2	23179.8	23499.1
60°	2837.8	2839.3	2867.9	2989.9	3297.2	3988.6	5567.1	10379.6	20418.8	24204.0	24723.7
62.5°	2702.2	2702.2	2720.3	2822.7	3080.3	3649.7	4907.4	9695.8	20964.1	24951.1	25329.2
65°	2507.9	2510.9	2529.0	2595.3	2795.6	3280.6	4288.3	8792.0	20930.9	25317.1	25696.7
67.5°	2135.9	2128.3	2236.8	2345.2	2501.9	2907.1	3681.3	7904.8	20171.8	25160.5	25516.0
70°	1546.9	1536.4	1599.6	1753.3	2131.4	2428.1	3128.5	7163.8	17990.7	24574.6	24869.8
72.5°	1269.8	1275.8	1278.8	1259.2	1426.4	1965.7	2613.4	6300.7	14844.2	22777.6	23696.4
75°	1004.7	989.6	1006.2	1021.2	1066.4	1152.3	2114.8	5246.3	12047.0	19099.3	20649.3
77.5°	634.1	625.1	623.6	632.6	691.4	730.5	1295.4	3845.5	8382.3	12081.7	12184.1
80°	441.3	439.8	441.3	453.4	473.0	482.0	718.5	2107.3	4220.5	4399.8	4321.4
82.5°	313.3	302.8	293.7	316.3	305.8	296.7	432.3	965.5	1138.7	775.7	629.6
85°	155.1	158.2	134.1	170.2	159.7	155.1	168.7	183.8	170.2	317.8	360.0
87.5°	43.7	42.2	46.7	54.2	52.7	60.3	54.2	58.7	69.3	120.5	119.0
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)