

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: P510171

Luminaire Tested: **VERD-M-CA4-220-730-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510171  
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-CA4-220-730-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1000mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32503 lumens  
Efficiency: N/A  
Efficacy: 146.1 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

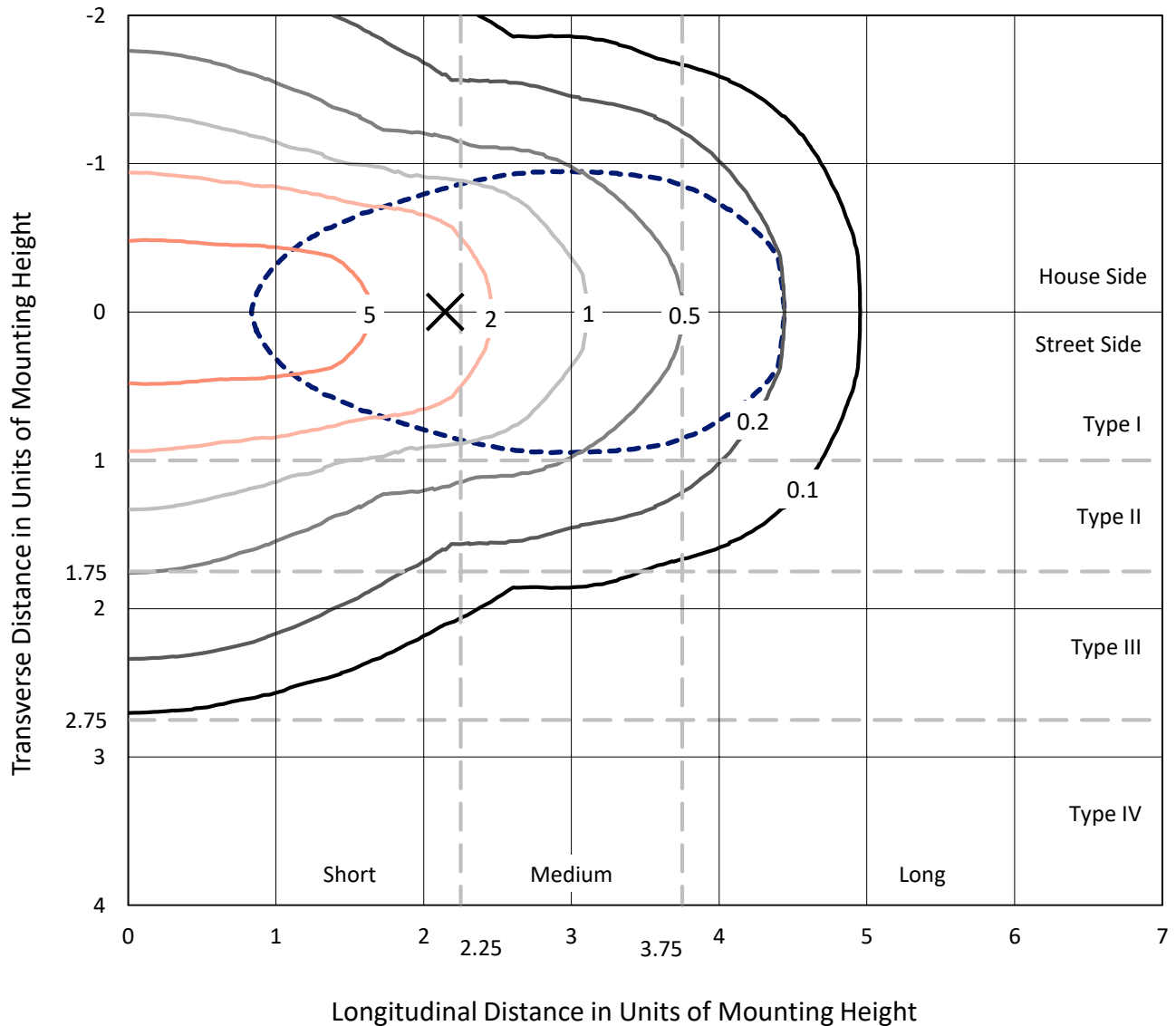
Input Watts (W): 222.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

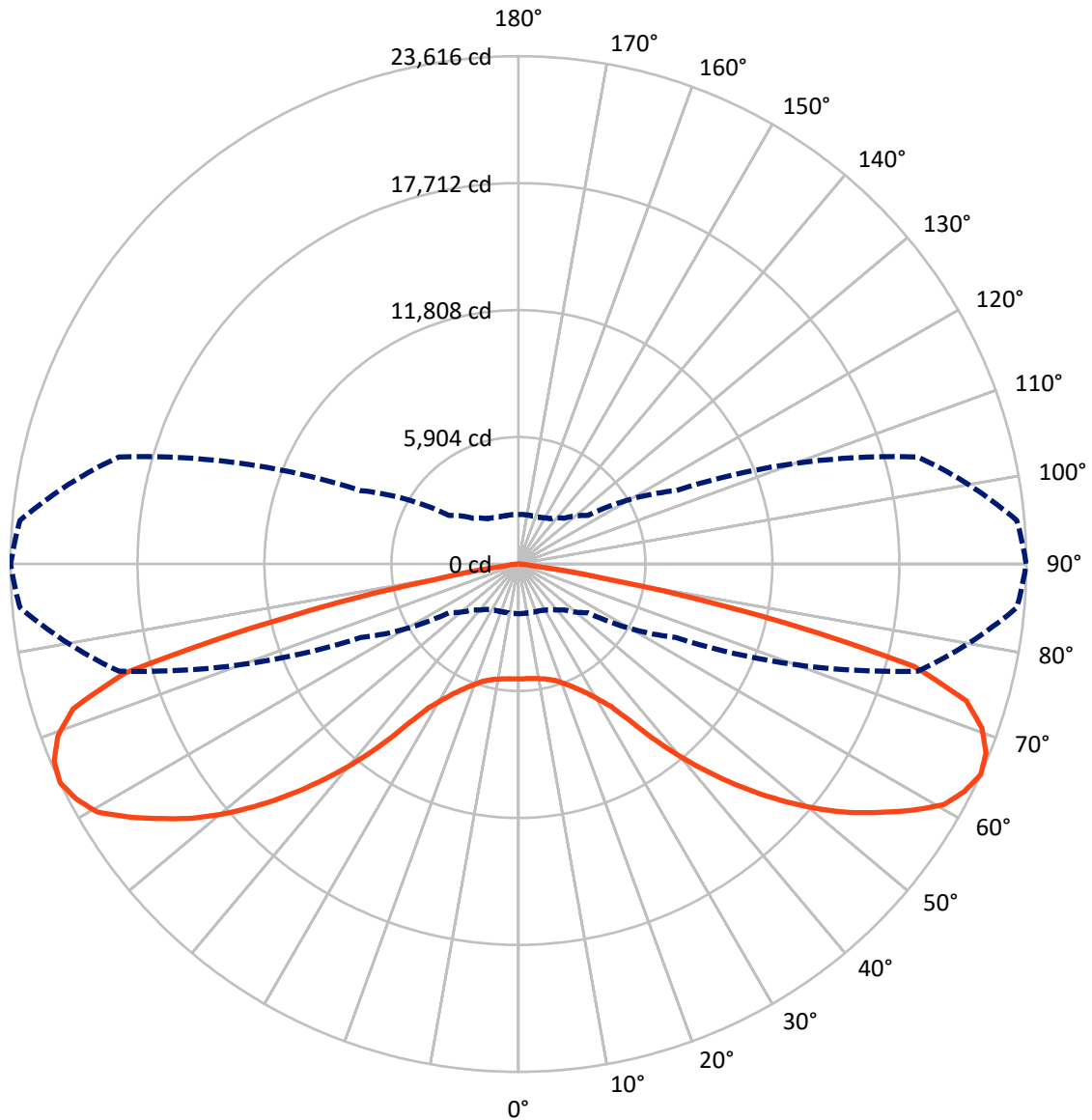
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	16251.5	0.0	16251.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16251.5	0.0	16251.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32503.0	0.0	32503.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	508.9	1.6
10°-20°	1511.1	4.6
20°-30°	2494.8	7.7
30°-40°	3655.6	11.2
40°-50°	5332.4	16.4
50°-60°	6903.7	21.2
60°-70°	7273.5	22.4
70°-80°	4439.3	13.7
80°-90°	383.7	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°	32503.0	100.0
0°-180°	32503.0	100.0



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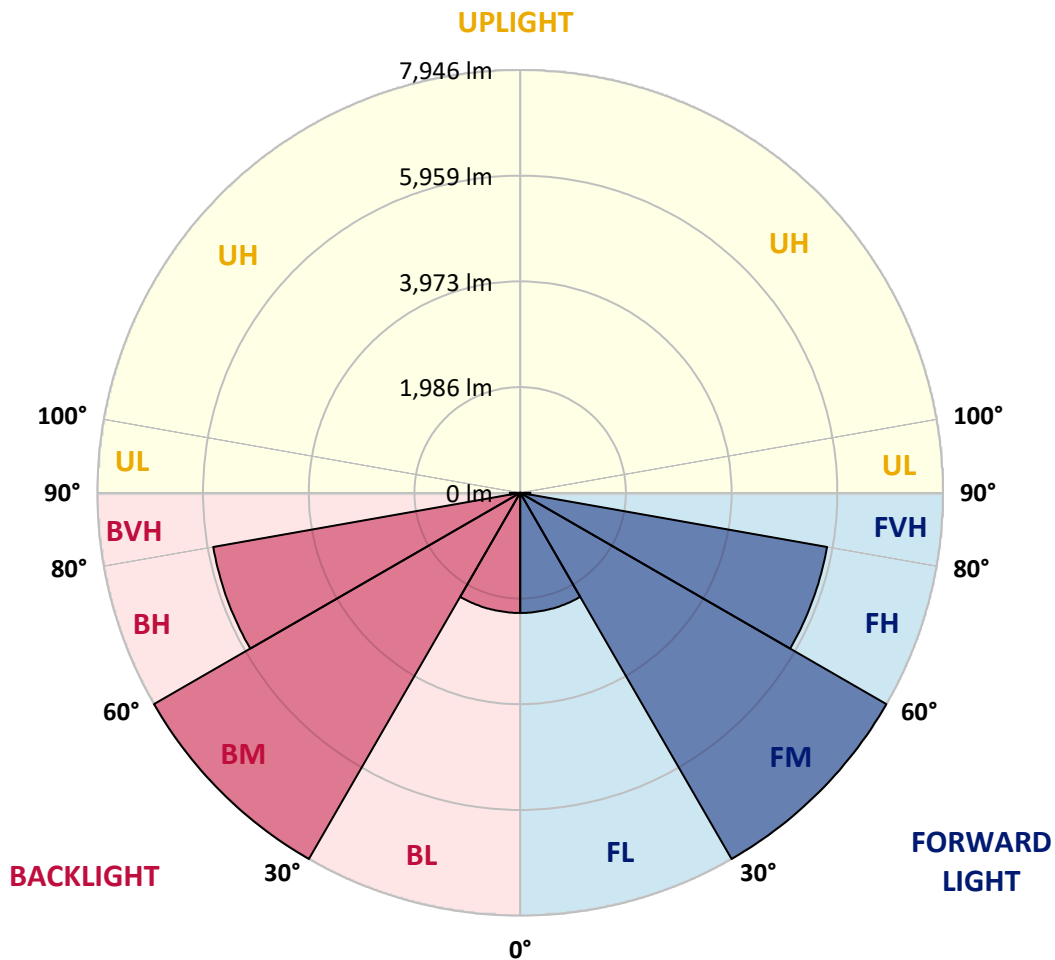
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.4	6.9			
FM (30°-60°)	7945.8	24.4			
FH (60°-80°)	5856.4	18.0			G3/7500
FVH (80°-90°)	191.9	0.6			G2/225
BL (0°-30°)	2257.4	6.9	B3/2500		
BM (30°-60°)	7945.8	24.4	B4/8500		
BH (60°-80°)	5856.4	18.0	B5		G5
BVH (80°-90°)	191.9	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°	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5
2.5°	5303.2	5346.1	5353.0	5335.0	5336.4	5333.6	5344.7	5348.9	5354.4	5346.1	5341.9
5°	5294.9	5332.2	5339.2	5330.9	5341.9	5339.2	5344.7	5354.4	5353.0	5350.2	5350.2
7.5°	5250.6	5278.3	5300.4	5294.9	5297.6	5315.6	5335.0	5366.9	5382.1	5382.1	5379.3
10°	5192.4	5221.5	5258.9	5250.6	5268.6	5305.9	5344.7	5377.9	5416.7	5425.0	5425.0
12.5°	5130.1	5170.3	5206.3	5214.6	5256.1	5299.0	5369.6	5420.8	5465.1	5484.5	5483.1
15°	5047.1	5081.7	5124.6	5155.1	5221.5	5314.3	5407.0	5485.9	5549.6	5575.9	5580.0
17.5°	4936.3	4973.7	5019.4	5083.1	5199.4	5332.2	5476.2	5582.8	5679.7	5707.4	5707.4
20°	4791.0	4831.1	4886.5	4984.8	5142.6	5350.2	5542.7	5710.2	5836.1	5901.2	5910.9
22.5°	4565.4	4609.7	4699.6	4869.9	5077.5	5347.5	5621.6	5859.7	6049.3	6133.7	6143.4
25°	4314.8	4371.6	4498.9	4723.2	4997.3	5344.7	5700.5	6028.5	6281.9	6412.0	6439.7
27.5°	4093.3	4147.3	4303.7	4580.6	4922.5	5350.2	5779.4	6222.3	6587.8	6774.7	6798.2
30°	3876.0	3924.4	4098.9	4428.3	4853.3	5357.2	5880.4	6445.2	6935.2	7220.4	7277.2
32.5°	3697.4	3745.9	3914.7	4266.4	4768.8	5372.4	6009.2	6742.8	7418.4	7844.7	7880.7
35°	3541.0	3596.4	3744.5	4103.0	4656.7	5394.5	6171.1	7133.2	8110.5	8896.8	8938.3
37.5°	3405.3	3449.6	3581.1	3930.0	4539.1	5398.7	6359.4	7591.4	9004.7	10166.2	10449.9
40°	3315.4	3345.8	3446.9	3770.8	4384.0	5364.1	6575.3	8103.6	10001.4	11640.4	11964.3
42.5°	3233.7	3261.4	3341.7	3624.0	4222.1	5297.6	6776.1	8629.6	10999.5	13146.5	13452.4
45°	3135.4	3157.5	3239.2	3499.5	4064.2	5195.2	6942.2	9116.9	12032.2	14659.5	14947.5
47.5°	3055.1	3071.7	3140.9	3387.3	3888.4	5030.5	7012.8	9558.5	13139.6	16059.0	16416.2
50°	2999.7	2994.2	3055.1	3271.1	3708.5	4800.7	6953.2	9885.1	14306.5	17459.9	17844.8
52.5°	2904.2	2909.8	2967.9	3150.6	3559.0	4516.9	6720.7	10114.9	15480.4	18739.0	19194.4
55°	2805.9	2814.2	2859.9	3024.7	3401.2	4247.0	6290.2	10146.8	16708.3	20076.2	20386.3
57.5°	2700.7	2704.9	2743.6	2889.0	3225.4	3967.3	5747.5	9944.7	17847.5	21302.7	21596.2
60°	2608.0	2609.4	2635.7	2747.8	3030.2	3665.6	5116.3	9539.1	18765.3	22244.0	22721.6
62.5°	2483.4	2483.4	2500.0	2594.1	2830.9	3354.1	4510.0	8910.6	19266.4	22930.6	23278.1
65°	2304.8	2307.6	2324.2	2385.1	2569.2	3015.0	3941.0	8080.0	19236.0	23267.0	23615.8
67.5°	1962.9	1956.0	2055.7	2155.3	2299.3	2671.7	3383.2	7264.7	18538.3	23123.0	23449.7
70°	1421.7	1412.0	1470.1	1611.3	1958.8	2231.5	2875.1	6583.6	16533.8	22584.5	22855.8
72.5°	1166.9	1172.5	1175.3	1157.3	1310.9	1806.5	2401.7	5790.4	13642.1	20933.1	21777.5
75°	923.3	909.5	924.7	938.5	980.1	1059.0	1943.5	4821.4	11071.5	17552.7	18977.1
77.5°	582.8	574.5	573.1	581.4	635.4	671.4	1190.5	3534.1	7703.5	11103.3	11197.4
80°	405.6	404.2	405.6	416.7	434.7	443.0	660.3	1936.6	3878.8	4043.5	3971.5
82.5°	287.9	278.2	269.9	290.7	281.0	272.7	397.3	887.3	1046.5	712.9	578.6
85°	142.6	145.3	123.2	156.4	146.7	142.6	155.0	168.9	156.4	292.1	330.8
87.5°	40.1	38.8	42.9	49.8	48.4	55.4	49.8	54.0	63.7	110.7	109.4
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)