

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: P510027

Luminaire Tested: **VERD-M-CA4-190-730-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510027  
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-CA4-190-730-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 870mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28804 lumens  
Efficiency: N/A  
Efficacy: 149.2 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

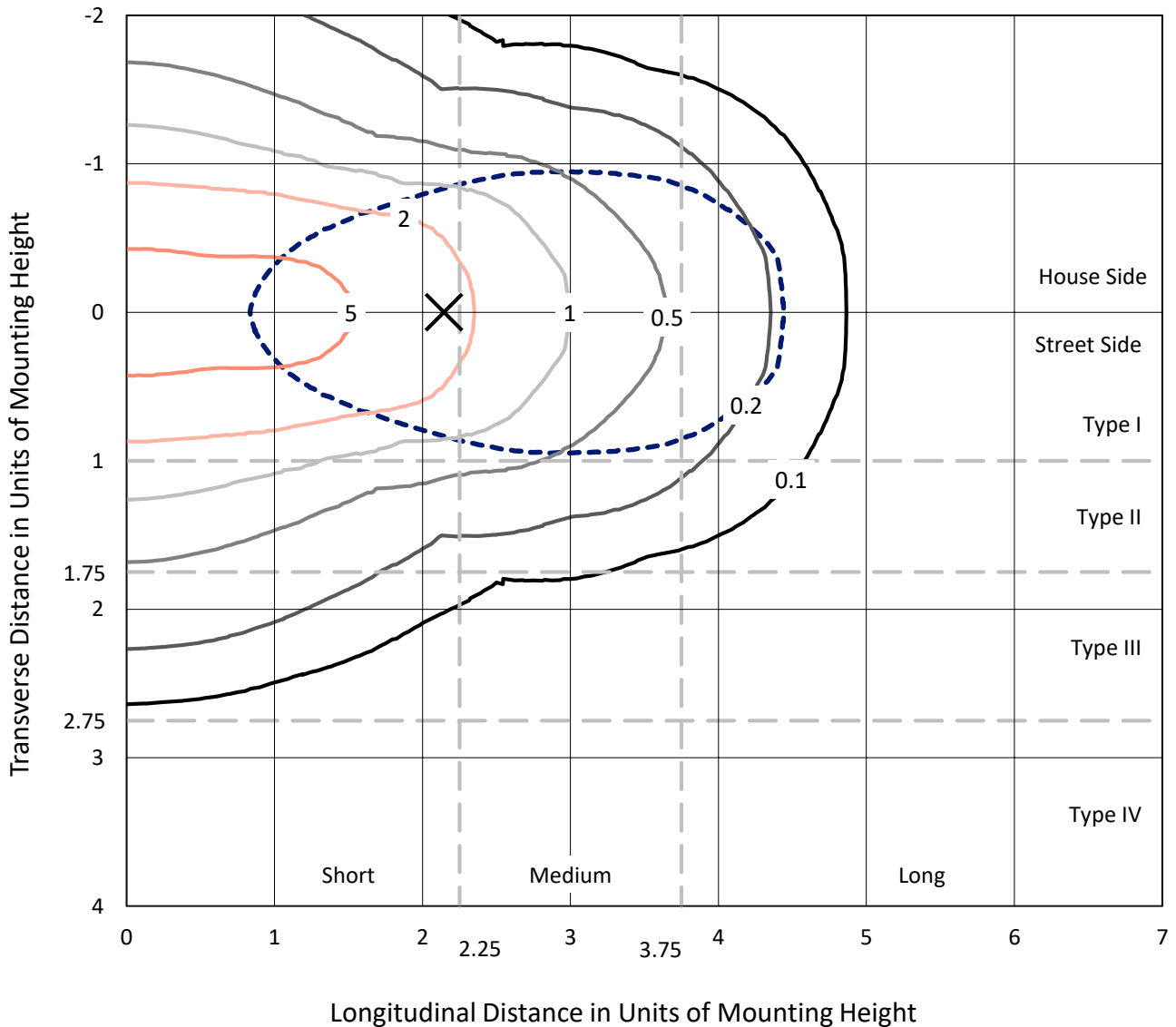
Input Watts (W): 193.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

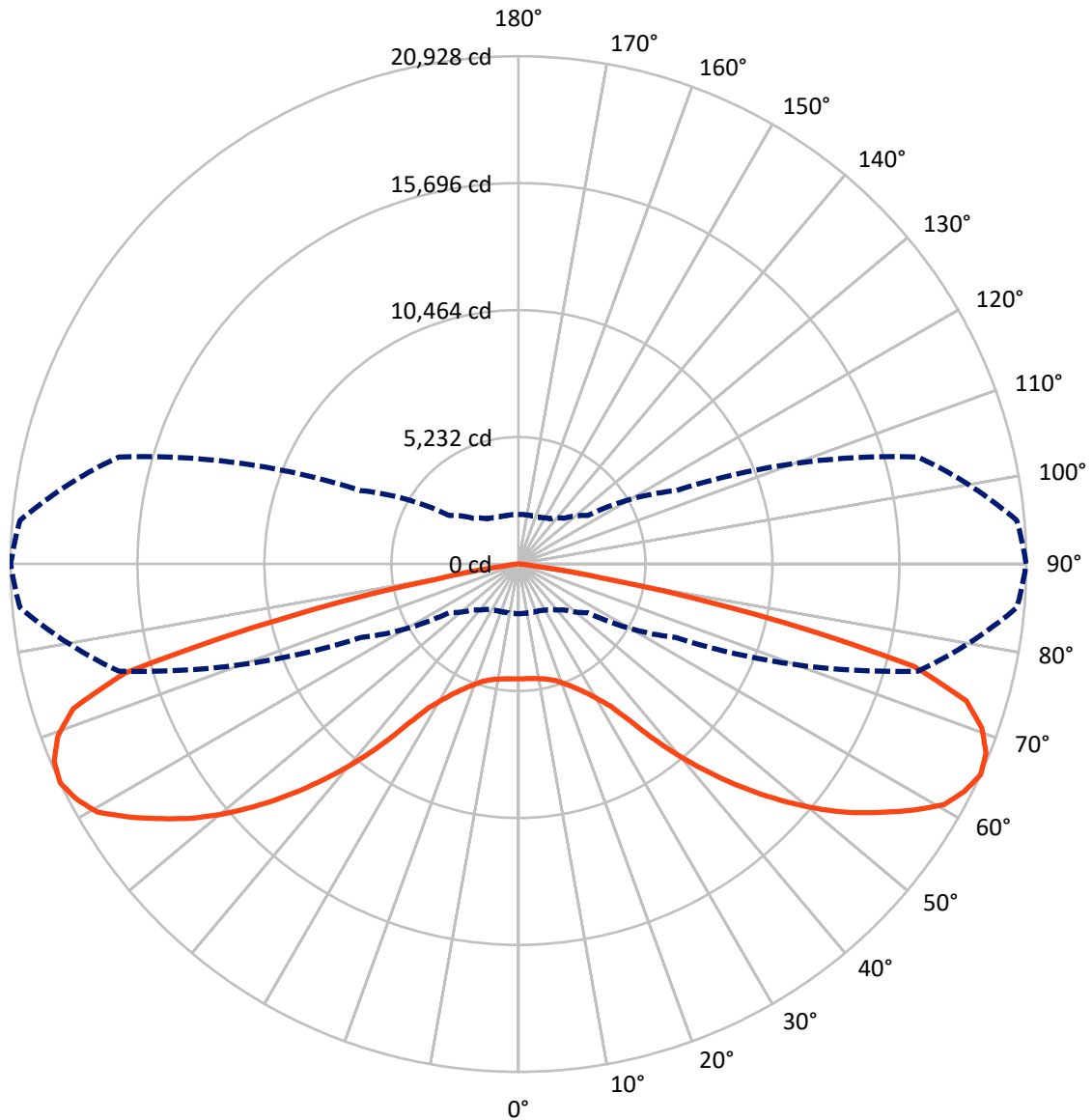
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	14402.0	0.0	14402.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14402.0	0.0	14402.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28804.0	0.0	28804.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.0	1.6
10°-20°	1339.2	4.6
20°-30°	2210.9	7.7
30°-40°	3239.6	11.2
40°-50°	4725.5	16.4
50°-60°	6118.0	21.2
60°-70°	6445.7	22.4
70°-80°	3934.0	13.7
80°-90°	340.1	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°	28804.0	100.0
0°-180°	28804.0	100.0



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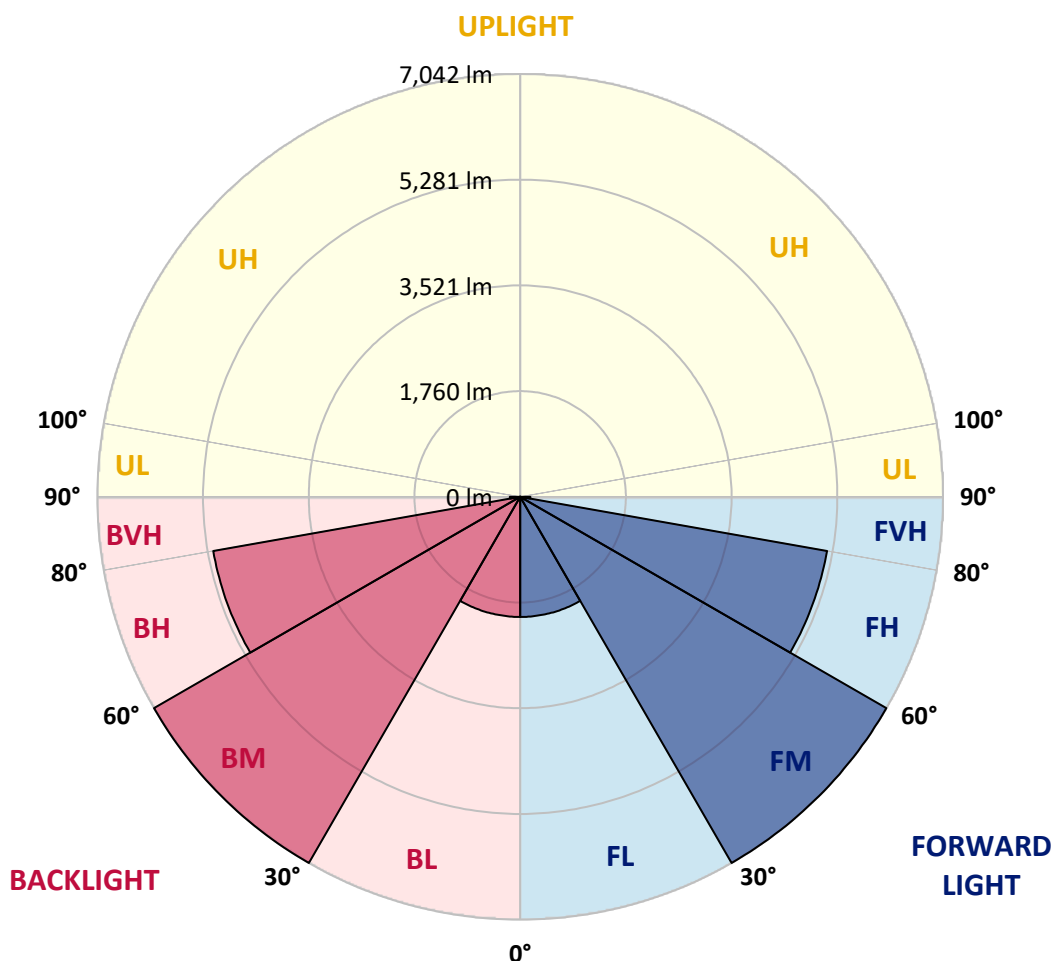
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2000.5	6.9			
FM	(30°-60°)	7041.5	24.4			
FH	(60°-80°)	5189.9	18.0			G3/7500
FVH	(80°-90°)	170.0	0.6			G2/225
BL	(0°-30°)	2000.5	6.9	B3/2500		
BM	(30°-60°)	7041.5	24.4	B4/8500		
BH	(60°-80°)	5189.9	18.0	B5		G5
BVH	(80°-90°)	170.0	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°	4738.9	4738.9	4738.9	4738.9	4738.9	4738.9	4738.9	4738.9	4738.9	4738.9	4738.9
2.5°	4699.6	4737.7	4743.8	4727.9	4729.1	4726.6	4736.5	4740.1	4745.0	4737.7	4734.0
5°	4692.3	4725.4	4731.5	4724.2	4734.0	4731.5	4736.5	4745.0	4743.8	4741.4	4741.4
7.5°	4653.0	4677.6	4697.2	4692.3	4694.7	4710.7	4727.9	4756.1	4769.6	4769.6	4767.1
10°	4601.5	4627.3	4660.4	4653.0	4669.0	4702.1	4736.5	4765.9	4800.2	4807.6	4807.6
12.5°	4546.3	4581.9	4613.8	4621.1	4657.9	4696.0	4758.5	4803.9	4843.2	4860.4	4859.1
15°	4472.7	4503.4	4541.4	4568.4	4627.3	4709.5	4791.7	4861.6	4918.0	4941.3	4945.0
17.5°	4374.6	4407.7	4448.2	4504.6	4607.6	4725.4	4853.0	4947.5	5033.3	5057.9	5057.9
20°	4245.8	4281.3	4330.4	4417.5	4557.3	4741.4	4911.9	5060.3	5171.9	5229.6	5238.2
22.5°	4045.8	4085.1	4164.8	4315.7	4499.7	4738.9	4981.8	5192.8	5360.9	5435.7	5444.3
25°	3823.8	3874.1	3986.9	4185.6	4428.5	4736.5	5051.7	5342.5	5567.0	5682.3	5706.8
27.5°	3627.5	3675.3	3813.9	4059.3	4362.3	4741.4	5121.6	5514.2	5838.1	6003.7	6024.5
30°	3434.9	3477.8	3632.4	3924.3	4301.0	4747.5	5211.2	5711.7	6146.0	6398.7	6449.0
32.5°	3276.6	3319.6	3469.2	3780.8	4226.1	4761.0	5325.3	5975.5	6574.1	6951.9	6983.8
35°	3138.0	3187.1	3318.3	3636.1	4126.8	4780.6	5468.8	6321.4	7187.5	7884.3	7921.1
37.5°	3017.8	3057.0	3173.6	3482.7	4022.5	4784.3	5635.7	6727.5	7980.0	9009.2	9260.7
40°	2938.0	2965.0	3054.6	3341.6	3885.1	4753.6	5827.0	7181.3	8863.2	10315.7	10602.7
42.5°	2865.7	2890.2	2961.4	3211.6	3741.6	4694.7	6004.9	7647.5	9747.7	11650.4	11921.5
45°	2778.6	2798.2	2870.6	3101.2	3601.7	4604.0	6152.1	8079.3	10662.8	12991.2	13246.4
47.5°	2707.4	2722.1	2783.5	3001.8	3445.9	4458.0	6214.7	8470.7	11644.2	14231.4	14547.9
50°	2658.4	2653.4	2707.4	2898.8	3286.4	4254.3	6161.9	8760.2	12678.4	15472.9	15813.9
52.5°	2573.7	2578.6	2630.1	2792.1	3154.0	4002.9	5955.8	8963.8	13718.7	16606.4	17010.0
55°	2486.6	2494.0	2534.4	2680.4	3014.1	3763.6	5574.3	8992.0	14806.8	17791.4	18066.2
57.5°	2393.4	2397.1	2431.4	2560.2	2858.3	3515.8	5093.4	8812.9	15816.4	18878.3	19138.4
60°	2311.2	2312.4	2335.7	2435.1	2685.3	3248.4	4534.0	8453.5	16629.7	19712.5	20135.7
62.5°	2200.8	2200.8	2215.5	2298.9	2508.7	2972.4	3996.7	7896.5	17073.8	20321.0	20628.9
65°	2042.5	2045.0	2059.7	2113.7	2276.8	2671.8	3492.5	7160.5	17046.8	20619.1	20928.2
67.5°	1739.5	1733.4	1821.7	1910.0	2037.6	2367.6	2998.2	6437.9	16428.5	20491.5	20781.0
70°	1259.9	1251.3	1302.8	1427.9	1735.8	1977.5	2547.9	5834.4	14652.2	20014.3	20254.7
72.5°	1034.1	1039.1	1041.5	1025.6	1161.7	1600.9	2128.4	5131.5	12089.5	18550.8	19299.1
75°	818.2	806.0	819.5	831.7	868.5	938.5	1722.3	4272.7	9811.5	15555.1	16817.4
77.5°	516.5	509.1	507.9	515.2	563.1	595.0	1055.0	3131.9	6826.8	9839.7	9923.1
80°	359.4	358.2	359.4	369.2	385.2	392.6	585.2	1716.2	3437.3	3583.3	3519.5
82.5°	255.2	246.6	239.2	257.6	249.0	241.7	352.1	786.3	927.4	631.8	512.8
85°	126.4	128.8	109.2	138.6	130.0	126.4	137.4	149.7	138.6	258.8	293.2
87.5°	35.6	34.3	38.0	44.2	42.9	49.1	44.2	47.8	56.4	98.1	96.9
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)