

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: P509947

Luminaire Tested: **VERD-M-CA3-170-750-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509947  
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-CA3-170-750-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1060mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26399 lumens  
Efficiency: N/A  
Efficacy: 152.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

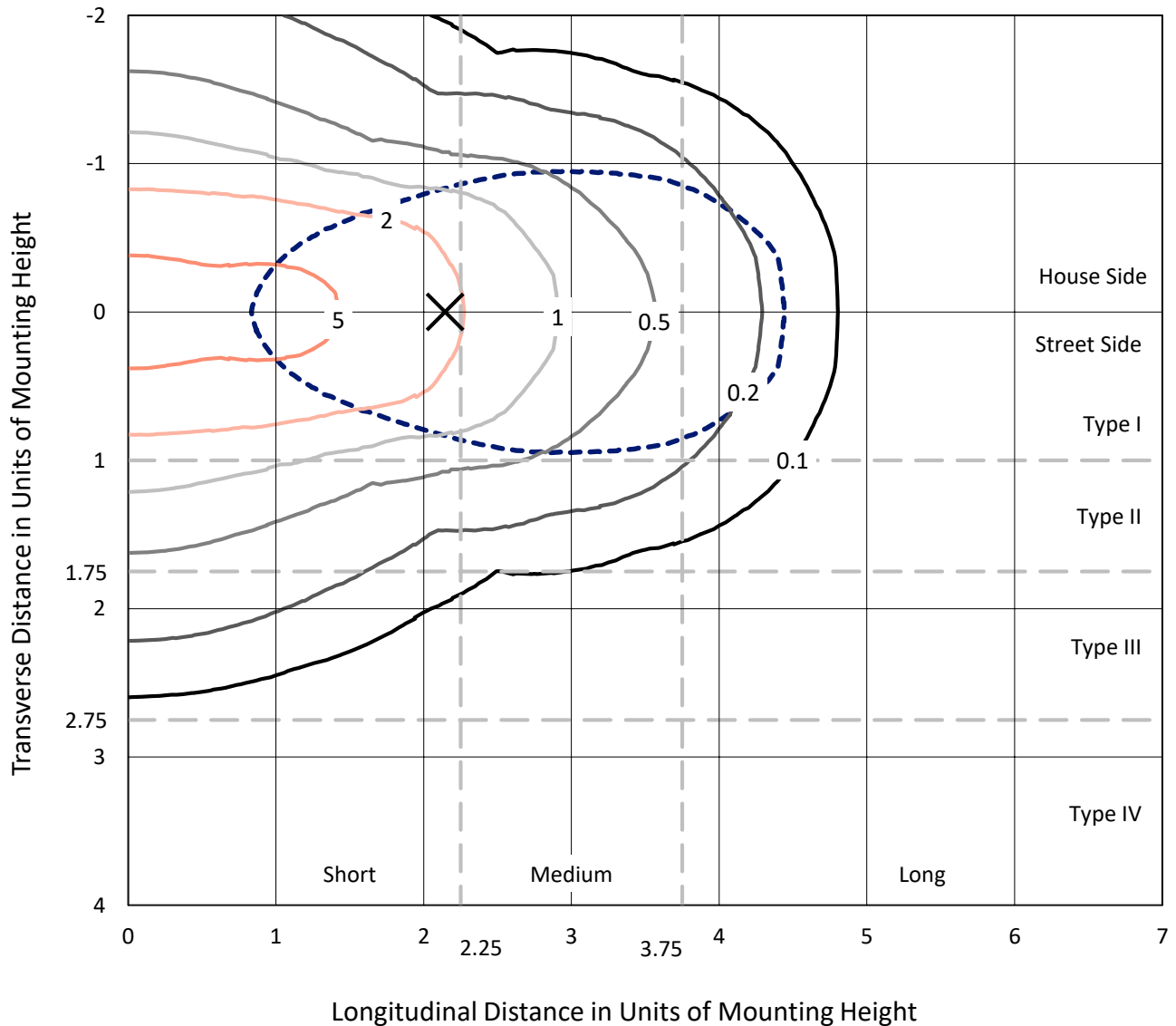
Input Watts (W): 172.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

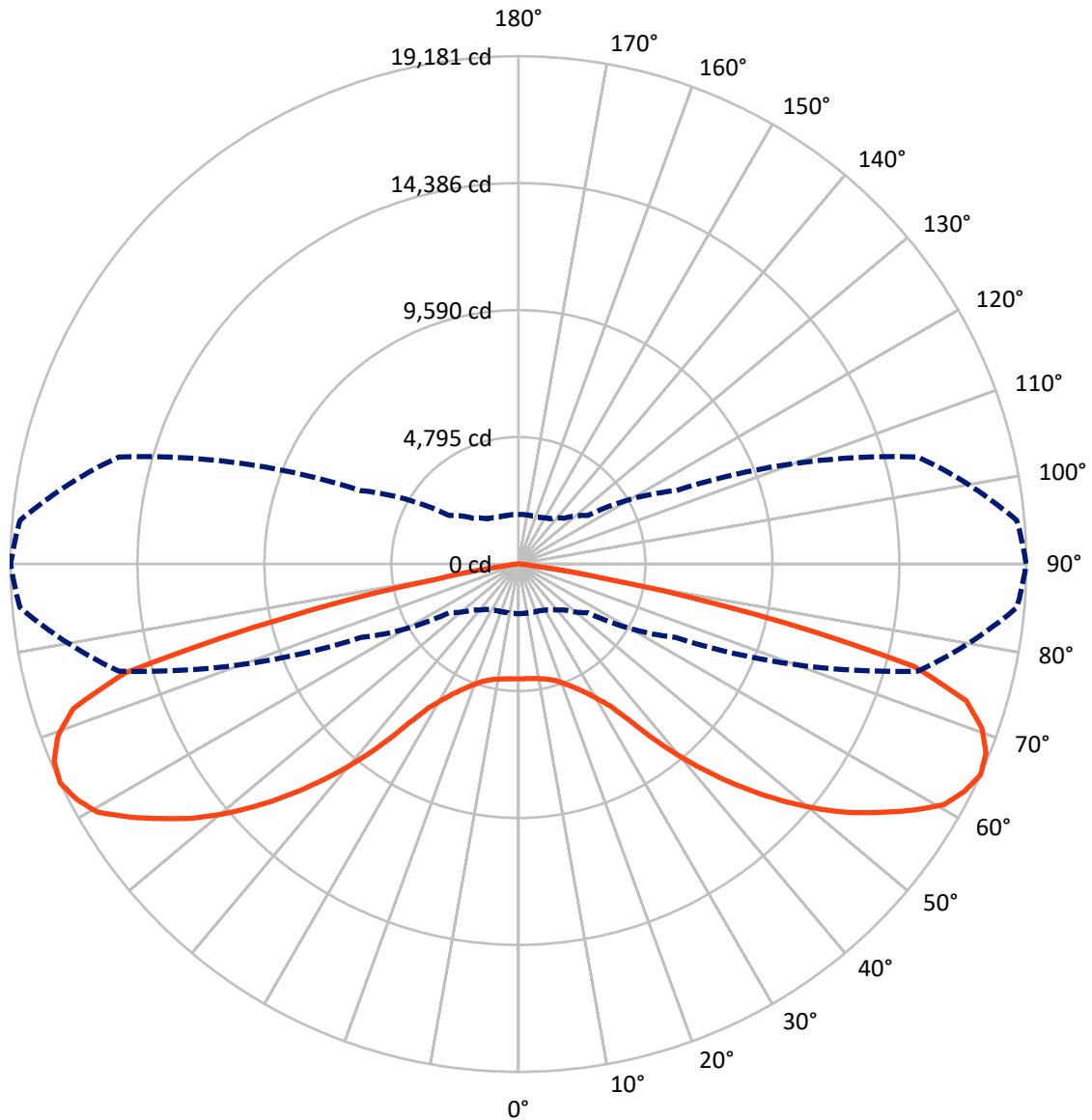
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	13199.5	0.0	13199.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13199.5	0.0	13199.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26399.0	0.0	26399.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.3	1.6
10°-20°	1227.4	4.6
20°-30°	2026.3	7.7
30°-40°	2969.1	11.2
40°-50°	4331.0	16.4
50°-60°	5607.2	21.2
60°-70°	5907.5	22.4
70°-80°	3605.6	13.7
80°-90°	311.7	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°	26399.0	100.0
0°-180°	26399.0	100.0



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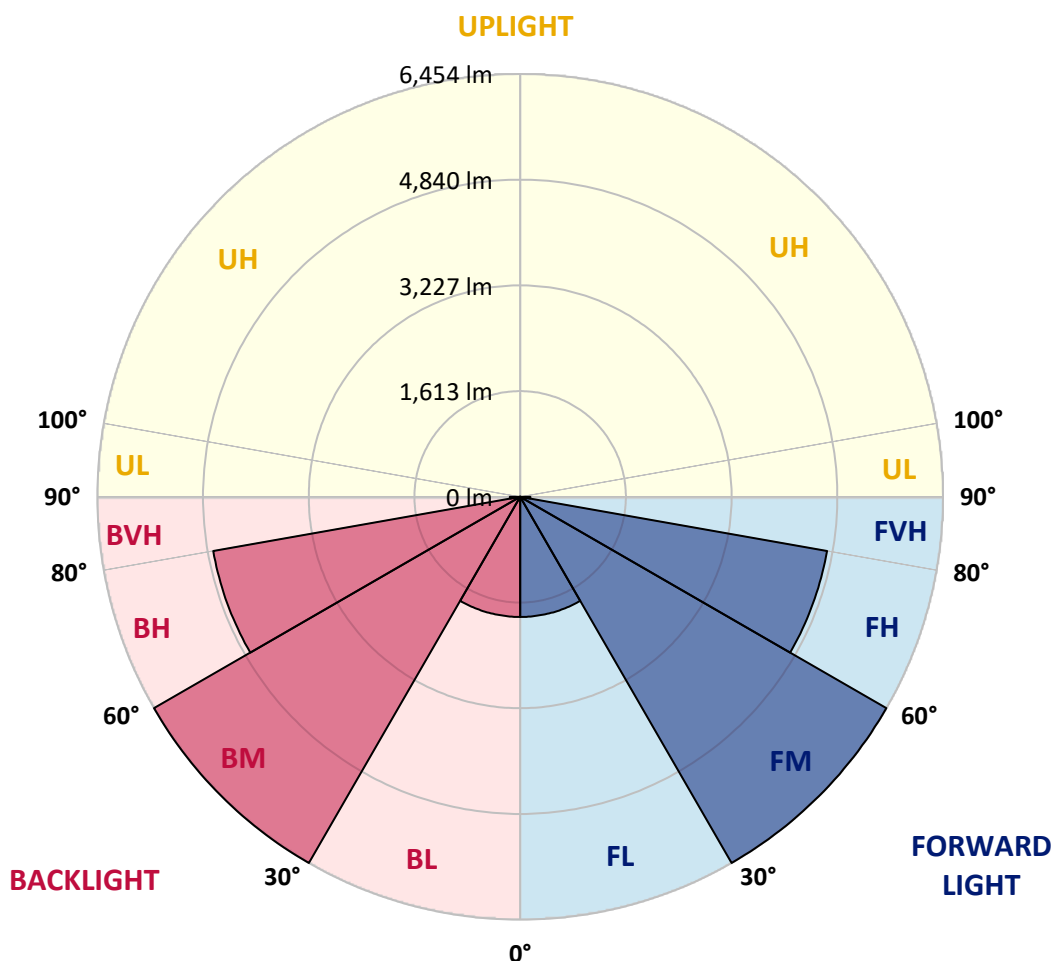
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1833.5	6.9			
FM	(30°-60°)	6453.6	24.4			
FH	(60°-80°)	4756.5	18.0			G2/5000
FVH	(80°-90°)	155.8	0.6			G2/225
BL	(0°-30°)	1833.5	6.9	B3/2500		
BM	(30°-60°)	6453.6	24.4	B4/8500		
BH	(60°-80°)	4756.5	18.0	B4/5000		G4/5000
BVH	(80°-90°)	155.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4343.2	4343.2	4343.2	4343.2	4343.2	4343.2	4343.2	4343.2	4343.2	4343.2	4343.2
2.5°	4307.3	4342.1	4347.7	4333.1	4334.2	4332.0	4341.0	4344.4	4348.9	4342.1	4338.7
5°	4300.5	4330.9	4336.5	4329.7	4338.7	4336.5	4341.0	4348.9	4347.7	4345.5	4345.5
7.5°	4264.5	4287.0	4305.0	4300.5	4302.8	4317.4	4333.1	4359.0	4371.3	4371.3	4369.1
10°	4217.3	4240.9	4271.3	4264.5	4279.1	4309.5	4341.0	4368.0	4399.4	4406.2	4406.2
12.5°	4166.7	4199.3	4228.5	4235.3	4269.0	4303.9	4361.2	4402.8	4438.8	4454.5	4453.4
15°	4099.3	4127.4	4162.2	4186.9	4240.9	4316.2	4391.6	4455.7	4507.4	4528.7	4532.1
17.5°	4009.3	4039.7	4076.8	4128.5	4222.9	4330.9	4447.8	4534.4	4613.1	4635.6	4635.6
20°	3891.3	3923.9	3968.8	4048.7	4176.8	4345.5	4501.8	4637.8	4740.1	4793.0	4800.8
22.5°	3708.0	3744.0	3817.0	3955.3	4124.0	4343.2	4565.8	4759.2	4913.3	4981.8	4989.7
25°	3504.5	3550.6	3654.0	3836.2	4058.8	4341.0	4629.9	4896.4	5102.1	5207.8	5230.3
27.5°	3324.6	3368.4	3495.5	3720.4	3998.1	4345.5	4694.0	5053.8	5350.6	5502.4	5521.5
30°	3148.1	3187.4	3329.1	3596.7	3941.8	4351.1	4776.1	5234.8	5632.8	5864.4	5910.5
32.5°	3003.0	3042.4	3179.6	3465.1	3873.3	4363.5	4880.7	5476.5	6025.2	6371.5	6400.7
35°	2876.0	2921.0	3041.3	3332.5	3782.2	4381.5	5012.2	5793.6	6587.4	7226.0	7259.7
37.5°	2765.8	2801.8	2908.6	3191.9	3686.6	4384.8	5165.1	6165.7	7313.7	8257.0	8487.5
40°	2692.7	2717.5	2799.5	3062.6	3560.7	4356.7	5340.5	6581.7	8123.2	9454.4	9717.5
42.5°	2626.4	2648.9	2714.1	2943.5	3429.2	4302.8	5503.5	7009.0	8933.8	10677.6	10926.1
45°	2546.6	2564.6	2630.9	2842.3	3301.0	4219.6	5638.4	7404.7	9772.5	11906.5	12140.4
47.5°	2481.4	2494.9	2551.1	2751.2	3158.2	4085.8	5695.8	7763.4	10672.0	13043.2	13333.3
50°	2436.4	2431.9	2481.4	2656.8	3012.0	3899.1	5647.4	8028.7	11619.8	14181.0	14493.5
52.5°	2358.8	2363.3	2410.5	2558.9	2890.6	3668.6	5458.5	8215.4	12573.2	15219.9	15589.8
55°	2279.0	2285.7	2322.8	2456.6	2762.4	3449.4	5108.9	8241.2	13570.5	16305.9	16557.8
57.5°	2193.5	2196.9	2228.4	2346.4	2619.7	3222.3	4668.2	8077.1	14495.8	17302.1	17540.4
60°	2118.2	2119.3	2140.7	2231.8	2461.1	2977.2	4155.5	7747.7	15241.2	18066.6	18454.5
62.5°	2017.0	2017.0	2030.5	2107.0	2299.2	2724.2	3663.0	7237.2	15648.2	18624.3	18906.5
65°	1872.0	1874.2	1887.7	1937.2	2086.7	2448.8	3200.9	6562.6	15623.5	18897.5	19180.8
67.5°	1594.3	1588.7	1669.6	1750.6	1867.5	2169.9	2747.8	5900.4	15056.8	18780.6	19045.9
70°	1154.7	1146.8	1194.0	1308.7	1590.9	1812.4	2335.2	5347.2	13428.8	18343.2	18563.6
72.5°	947.8	952.3	954.5	939.9	1064.7	1467.2	1950.7	4703.0	11080.1	17001.9	17687.7
75°	749.9	738.7	751.0	762.3	796.0	860.1	1578.5	3916.0	8992.3	14256.3	15413.2
77.5°	473.3	466.6	465.5	472.2	516.1	545.3	966.9	2870.4	6256.8	9018.1	9094.6
80°	329.4	328.3	329.4	338.4	353.0	359.8	536.3	1572.9	3150.3	3284.1	3225.7
82.5°	233.9	226.0	219.2	236.1	228.2	221.5	322.7	720.7	850.0	579.0	470.0
85°	115.8	118.1	100.1	127.0	119.2	115.8	125.9	137.2	127.0	237.2	268.7
87.5°	32.6	31.5	34.9	40.5	39.4	45.0	40.5	43.8	51.7	89.9	88.8
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)