

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: P509883

Luminaire Tested: **VERD-M-CA3-160-730-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509883  
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-CA3-160-730-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1000mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24294 lumens  
Efficiency: N/A  
Efficacy: 149.3 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

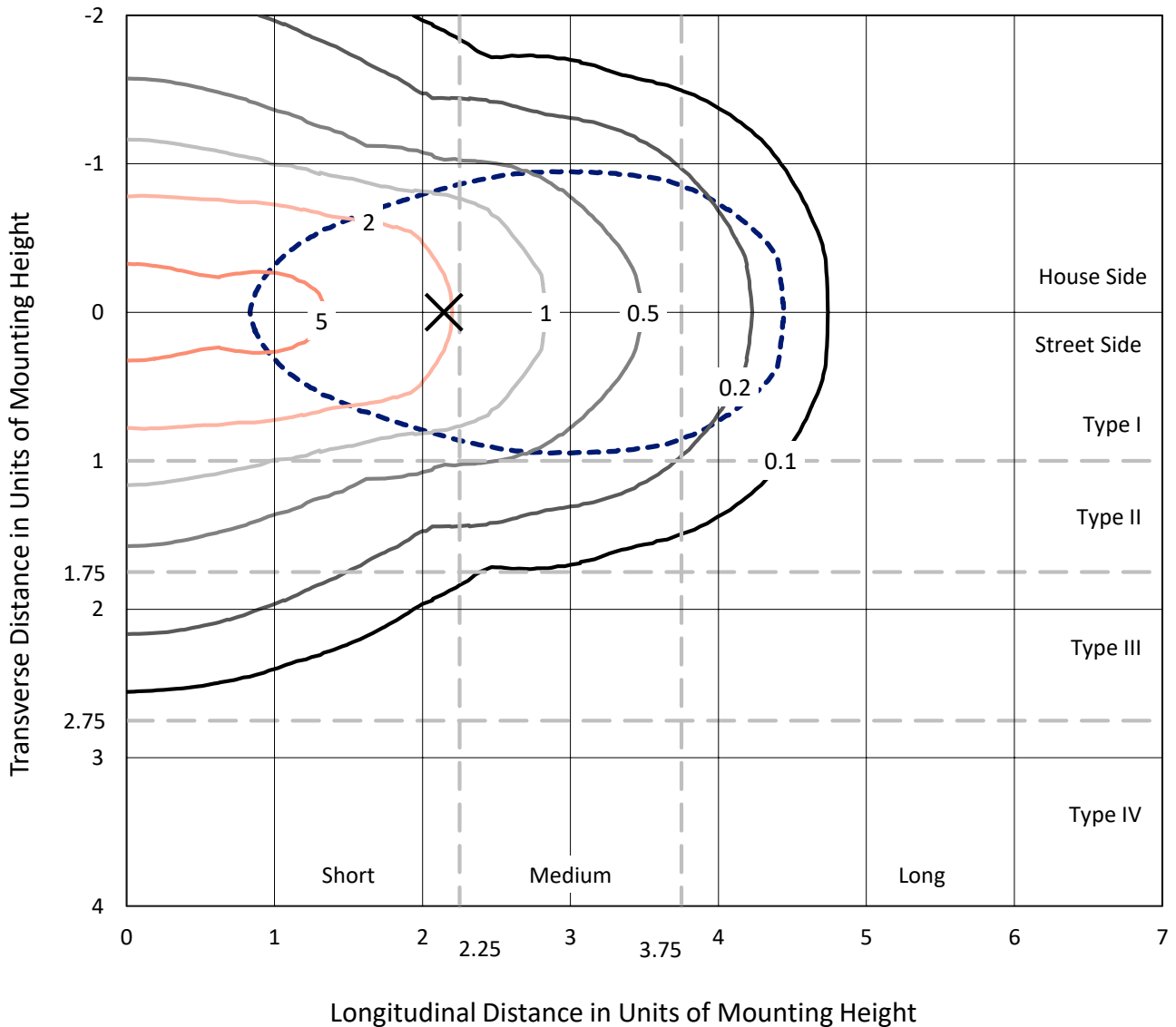
Input Watts (W): 162.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

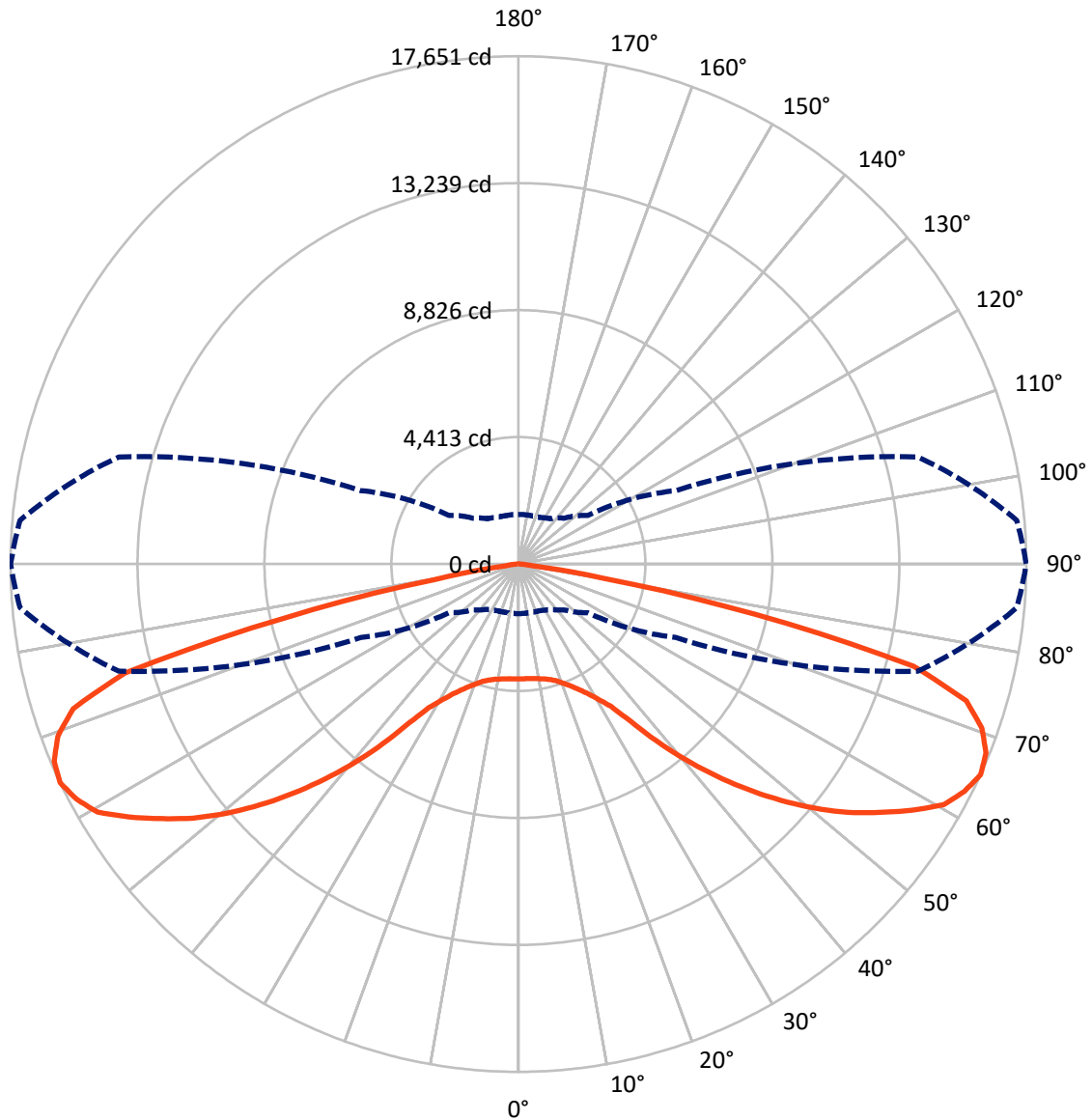
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type I - Short - N/A

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CATALOG NUMBER: VERD-M-CA3-160-730-U-T1

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-M-CA3-160-730-U-T1

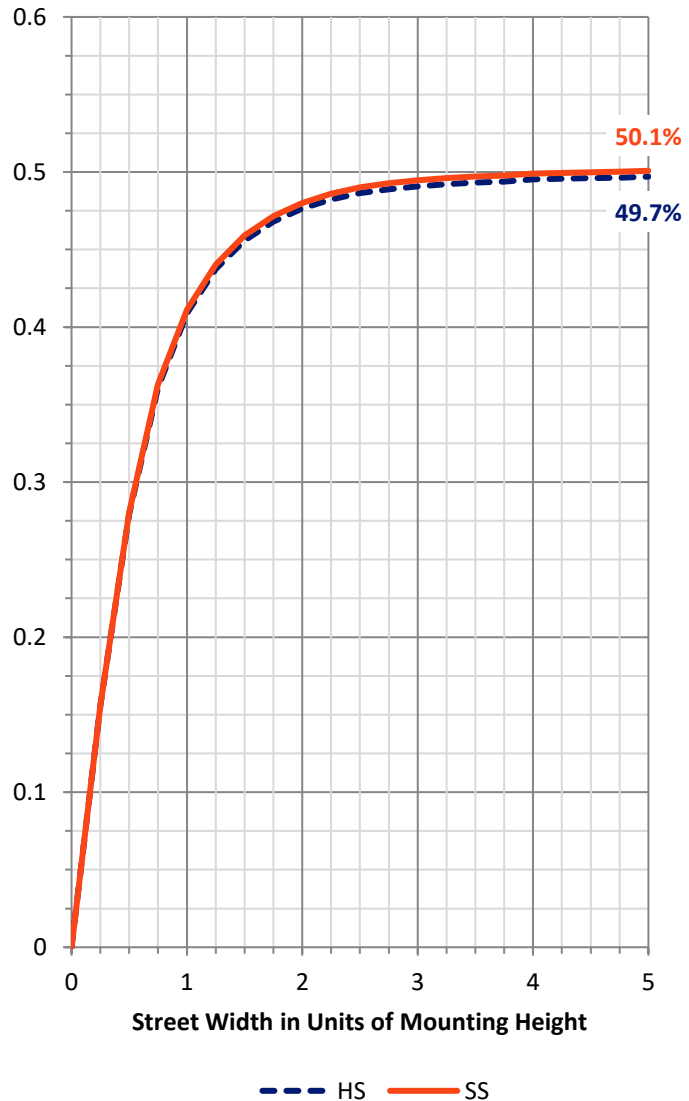
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12147.0	0.0	12147.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12147.0	0.0	12147.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24294.0	0.0	24294.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.4	1.6
10°-20°	1129.5	4.6
20°-30°	1864.7	7.7
30°-40°	2732.3	11.2
40°-50°	3985.6	16.4
50°-60°	5160.1	21.2
60°-70°	5436.5	22.4
70°-80°	3318.1	13.7
80°-90°	286.8	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°	24294.0	100.0
0°-180°	24294.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509883

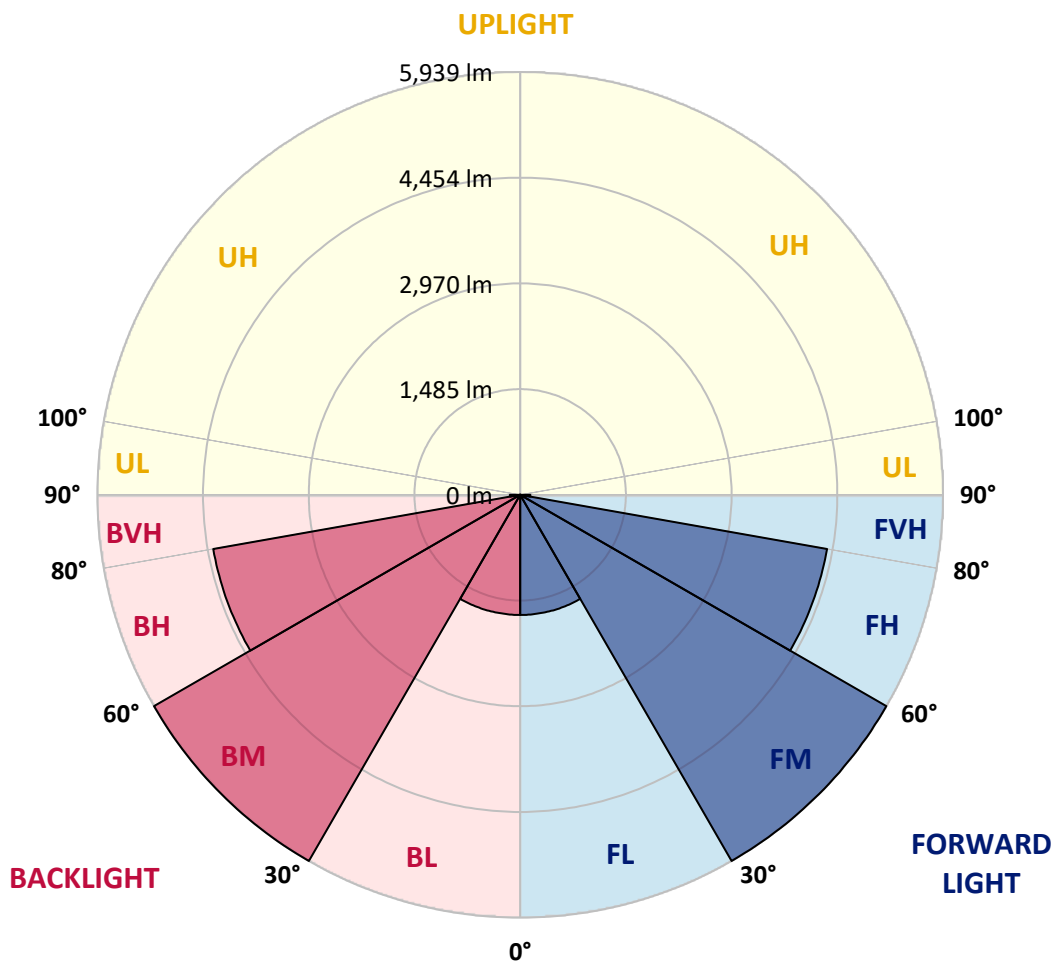
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.3	6.9			
FM (30°-60°)	5939.0	24.4			
FH (60°-80°)	4377.3	18.0			G2/5000
FVH (80°-90°)	143.4	0.6			G2/225
BL (0°-30°)	1687.3	6.9	B3/2500		
BM (30°-60°)	5939.0	24.4	B4/8500		
BH (60°-80°)	4377.3	18.0	B4/5000		G4/5000
BVH (80°-90°)	143.4	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°	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9	3996.9
2.5°	3963.8	3995.9	4001.0	3987.6	3988.6	3986.6	3994.8	3997.9	4002.1	3995.9	3992.8
5°	3957.6	3985.5	3990.7	3984.5	3992.8	3990.7	3994.8	4002.1	4001.0	3999.0	3999.0
7.5°	3924.5	3945.2	3961.7	3957.6	3959.7	3973.1	3987.6	4011.4	4022.8	4022.8	4020.7
10°	3881.0	3902.8	3930.7	3924.5	3937.9	3965.9	3994.8	4019.7	4048.6	4054.9	4054.9
12.5°	3834.5	3864.5	3891.4	3897.6	3928.6	3960.7	4013.5	4051.7	4084.9	4099.3	4098.3
15°	3772.4	3798.3	3830.3	3853.1	3902.8	3972.1	4041.4	4100.4	4148.0	4167.6	4170.7
17.5°	3689.6	3717.5	3751.7	3799.3	3886.2	3985.5	4093.1	4172.8	4245.2	4265.9	4265.9
20°	3581.0	3611.0	3652.4	3725.8	3843.8	3999.0	4142.8	4268.0	4362.1	4410.8	4418.0
22.5°	3412.3	3445.4	3512.7	3639.9	3795.1	3996.9	4201.8	4379.7	4521.5	4584.6	4591.8
25°	3225.0	3267.5	3362.7	3530.3	3735.1	3994.8	4260.7	4506.0	4695.3	4792.6	4813.3
27.5°	3059.5	3099.9	3216.8	3423.7	3679.3	3999.0	4319.7	4650.8	4924.0	5063.6	5081.2
30°	2897.1	2933.3	3063.6	3309.9	3627.5	4004.2	4395.3	4817.4	5183.7	5396.8	5439.2
32.5°	2763.6	2799.8	2926.0	3188.8	3564.4	4015.5	4491.5	5039.9	5544.8	5863.4	5890.3
35°	2646.7	2688.1	2798.8	3066.7	3480.6	4032.1	4612.5	5331.6	6062.1	6649.8	6680.8
37.5°	2545.3	2578.4	2676.7	2937.4	3392.7	4035.2	4753.2	5674.1	6730.5	7598.6	7810.7
40°	2478.0	2500.8	2576.3	2818.4	3276.8	4009.3	4914.7	6056.9	7475.5	8700.5	8942.6
42.5°	2417.0	2437.7	2497.7	2708.8	3155.7	3959.7	5064.7	6450.1	8221.4	9826.2	10054.9
45°	2343.5	2360.1	2421.1	2615.6	3037.8	3883.1	5188.8	6814.3	8993.3	10957.1	11172.3
47.5°	2283.5	2295.9	2347.7	2531.8	2906.4	3760.0	5241.6	7144.4	9821.0	12003.1	12270.1
50°	2242.1	2238.0	2283.5	2444.9	2771.9	3588.2	5197.1	7388.5	10693.3	13050.2	13337.9
52.5°	2170.7	2174.9	2218.3	2354.9	2660.1	3376.1	5023.3	7560.3	11570.7	14006.3	14346.7
55°	2097.3	2103.5	2137.6	2260.7	2542.2	3174.4	4701.5	7584.1	12488.4	15005.7	15237.5
57.5°	2018.6	2021.7	2050.7	2159.3	2410.8	2965.3	4295.9	7433.0	13339.9	15922.5	16141.8
60°	1949.3	1950.3	1970.0	2053.8	2264.9	2739.8	3824.1	7129.9	14025.9	16626.0	16983.0
62.5°	1856.2	1856.2	1868.6	1939.0	2115.9	2507.0	3370.9	6660.1	14400.5	17139.2	17398.9
65°	1722.7	1724.8	1737.2	1782.7	1920.3	2253.5	2945.7	6039.3	14377.7	17390.6	17651.4
67.5°	1467.2	1462.0	1536.5	1611.0	1718.6	1996.9	2528.7	5429.9	13856.2	17283.0	17527.2
70°	1062.6	1055.4	1098.8	1204.3	1464.1	1667.9	2149.0	4920.9	12358.0	16880.6	17083.3
72.5°	872.2	876.4	878.4	865.0	979.8	1350.2	1795.1	4328.0	10196.6	15646.2	16277.3
75°	690.1	679.8	691.2	701.5	732.5	791.5	1452.7	3603.7	8275.2	13119.5	14184.2
77.5°	435.6	429.4	428.4	434.6	474.9	501.8	889.8	2641.5	5757.9	8299.0	8369.4
80°	303.2	302.1	303.2	311.4	324.9	331.1	493.5	1447.5	2899.1	3022.3	2968.5
82.5°	215.2	208.0	201.8	217.3	210.0	203.8	296.9	663.2	782.2	532.9	432.5
85°	106.6	108.6	92.1	116.9	109.7	106.6	115.9	126.2	116.9	218.3	247.3
87.5°	30.0	29.0	32.1	37.2	36.2	41.4	37.2	40.4	47.6	82.8	81.7
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)