

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: P510059

Luminaire Tested: **VERD-M-CA4-200-722-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510059  
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-CA4-200-722-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 910mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24875 lumens  
Efficiency: N/A  
Efficacy: 123.3 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

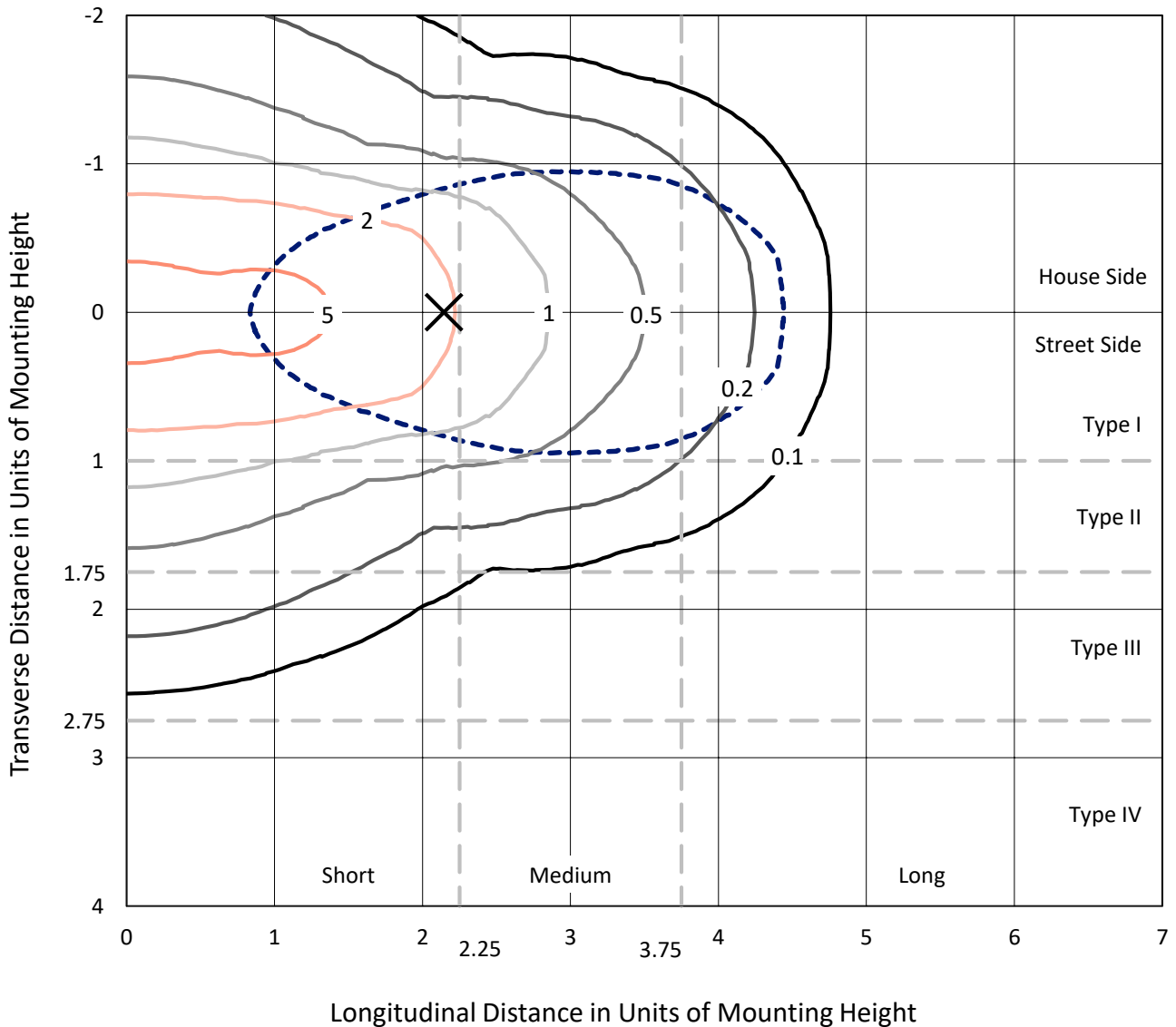
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

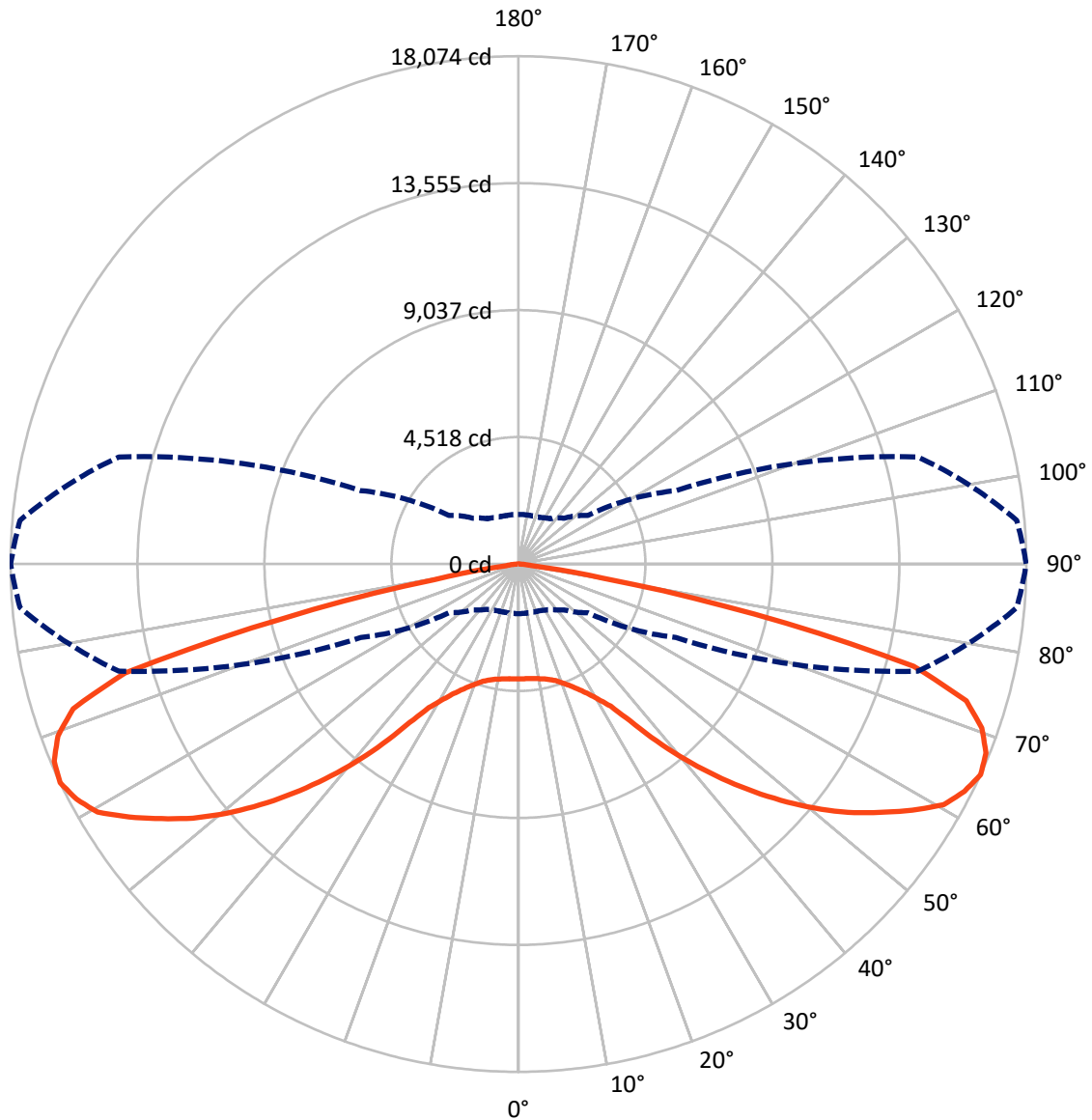
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	12437.5	0.0	12437.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12437.5	0.0	12437.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24875.0	0.0	24875.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.5	1.6
10°-20°	1156.5	4.6
20°-30°	1909.3	7.7
30°-40°	2797.7	11.2
40°-50°	4080.9	16.4
50°-60°	5283.5	21.2
60°-70°	5566.5	22.4
70°-80°	3397.4	13.7
80°-90°	293.7	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°	24875.0	100.0
0°-180°	24875.0	100.0



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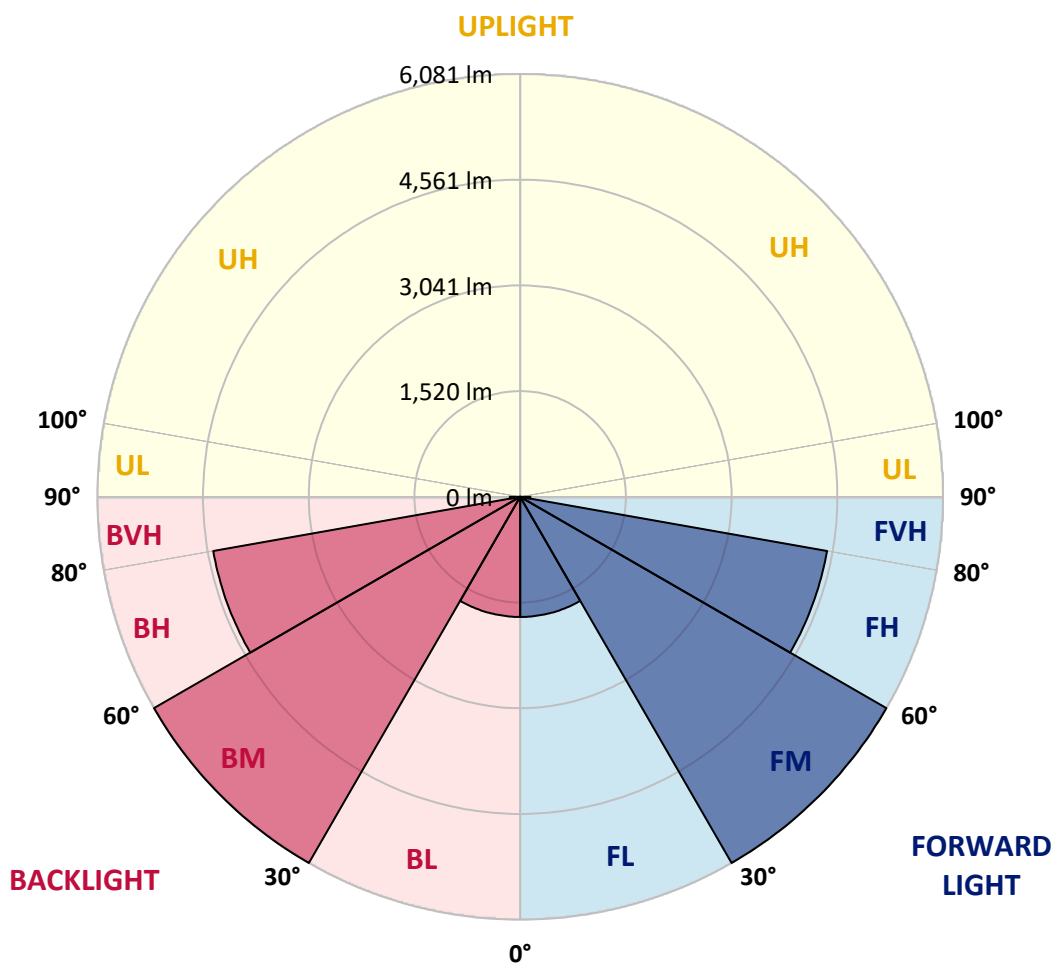
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.7	6.9			
FM (30°-60°)	6081.0	24.4			
FH (60°-80°)	4482.0	18.0			G2/5000
FVH (80°-90°)	146.8	0.6			G2/225
BL (0°-30°)	1727.7	6.9	B3/2500		
BM (30°-60°)	6081.0	24.4	B4/8500		
BH (60°-80°)	4482.0	18.0	B4/5000		G4/5000
BVH (80°-90°)	146.8	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°	4092.5	4092.5	4092.5	4092.5	4092.5	4092.5	4092.5	4092.5	4092.5	4092.5	4092.5
2.5°	4058.6	4091.4	4096.7	4083.0	4084.0	4081.9	4090.4	4093.6	4097.8	4091.4	4088.3
5°	4052.2	4080.8	4086.1	4079.8	4088.3	4086.1	4090.4	4097.8	4096.7	4094.6	4094.6
7.5°	4018.3	4039.5	4056.5	4052.2	4054.4	4068.1	4083.0	4107.3	4119.0	4119.0	4116.9
10°	3973.8	3996.1	4024.7	4018.3	4032.1	4060.7	4090.4	4115.8	4145.5	4151.8	4151.8
12.5°	3926.2	3956.9	3984.4	3990.8	4022.6	4055.4	4109.4	4148.6	4182.5	4197.4	4196.3
15°	3862.6	3889.1	3921.9	3945.2	3996.1	4067.1	4138.1	4198.4	4247.2	4267.3	4270.5
17.5°	3777.9	3806.5	3841.4	3890.1	3979.1	4080.8	4191.0	4272.6	4346.8	4367.9	4367.9
20°	3666.6	3697.3	3739.7	3814.9	3935.7	4094.6	4241.9	4370.1	4466.5	4516.3	4523.7
22.5°	3493.9	3527.8	3596.7	3727.0	3885.9	4092.5	4302.3	4484.5	4629.6	4694.2	4701.7
25°	3302.2	3345.6	3443.1	3614.7	3824.5	4090.4	4362.6	4613.7	4807.6	4907.2	4928.4
27.5°	3132.7	3174.0	3293.7	3505.6	3767.3	4094.6	4423.0	4762.0	5041.7	5184.7	5202.8
30°	2966.3	3003.4	3136.9	3389.0	3714.3	4099.9	4500.4	4932.6	5307.6	5525.9	5569.3
32.5°	2829.7	2866.8	2996.0	3265.1	3649.7	4111.6	4598.9	5160.4	5677.4	6003.7	6031.2
35°	2710.0	2752.3	2865.7	3140.1	3563.9	4128.5	4722.8	5459.1	6207.1	6808.8	6840.6
37.5°	2606.1	2640.0	2740.7	3007.7	3473.8	4131.7	4866.9	5809.8	6891.5	7780.3	7997.5
40°	2537.3	2560.6	2637.9	2885.8	3355.1	4105.2	5032.2	6201.8	7654.2	8908.6	9156.5
42.5°	2474.8	2496.0	2557.4	2773.5	3231.2	4054.4	5185.8	6604.4	8418.1	10061.2	10295.3
45°	2399.6	2416.5	2479.0	2678.2	3110.4	3976.0	5312.9	6977.3	9208.4	11219.1	11439.5
47.5°	2338.1	2350.8	2403.8	2592.4	2975.9	3849.9	5367.0	7315.2	10055.9	12290.2	12563.5
50°	2295.7	2291.5	2338.1	2503.4	2838.2	3674.0	5321.4	7565.2	10949.0	13362.3	13656.8
52.5°	2222.6	2226.9	2271.4	2411.2	2723.7	3456.9	5143.4	7741.1	11847.4	14341.2	14689.8
55°	2147.4	2153.8	2188.7	2314.8	2603.0	3250.3	4814.0	7765.5	12787.1	15364.6	15601.9
57.5°	2066.9	2070.1	2099.7	2211.0	2468.4	3036.3	4398.7	7610.8	13659.0	16303.2	16527.8
60°	1995.9	1997.0	2017.1	2102.9	2319.0	2805.3	3915.6	7300.4	14361.3	17023.6	17389.1
62.5°	1900.6	1900.6	1913.3	1985.3	2166.5	2566.9	3451.6	6819.4	14744.9	17549.1	17815.0
65°	1763.9	1766.0	1778.7	1825.4	1966.3	2307.4	3016.1	6183.8	14721.5	17806.5	18073.5
67.5°	1502.2	1496.9	1573.2	1649.5	1759.7	2044.7	2589.2	5559.8	14187.6	17696.4	17946.4
70°	1088.0	1080.6	1125.1	1233.2	1499.1	1707.8	2200.4	5038.5	12653.6	17284.3	17491.9
72.5°	893.1	897.3	899.4	885.7	1003.3	1382.5	1838.1	4431.5	10440.5	16020.4	16666.6
75°	706.6	696.0	707.7	718.3	750.1	810.4	1487.4	3689.9	8473.2	13433.3	14523.4
77.5°	446.0	439.7	438.6	445.0	486.3	513.8	911.1	2704.7	5895.6	8497.5	8569.6
80°	310.4	309.3	310.4	318.9	332.7	339.0	505.3	1482.1	2968.5	3094.5	3039.4
82.5°	220.4	212.9	206.6	222.5	215.1	208.7	304.1	679.1	800.9	545.6	442.8
85°	109.1	111.2	94.3	119.7	112.3	109.1	118.7	129.2	119.7	223.5	253.2
87.5°	30.7	29.7	32.8	38.1	37.1	42.4	38.1	41.3	48.7	84.8	83.7
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)