

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: P510203

Luminaire Tested: **VERD-M-CA4-230-722-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510203  
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-CA4-230-722-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 1050mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28023 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

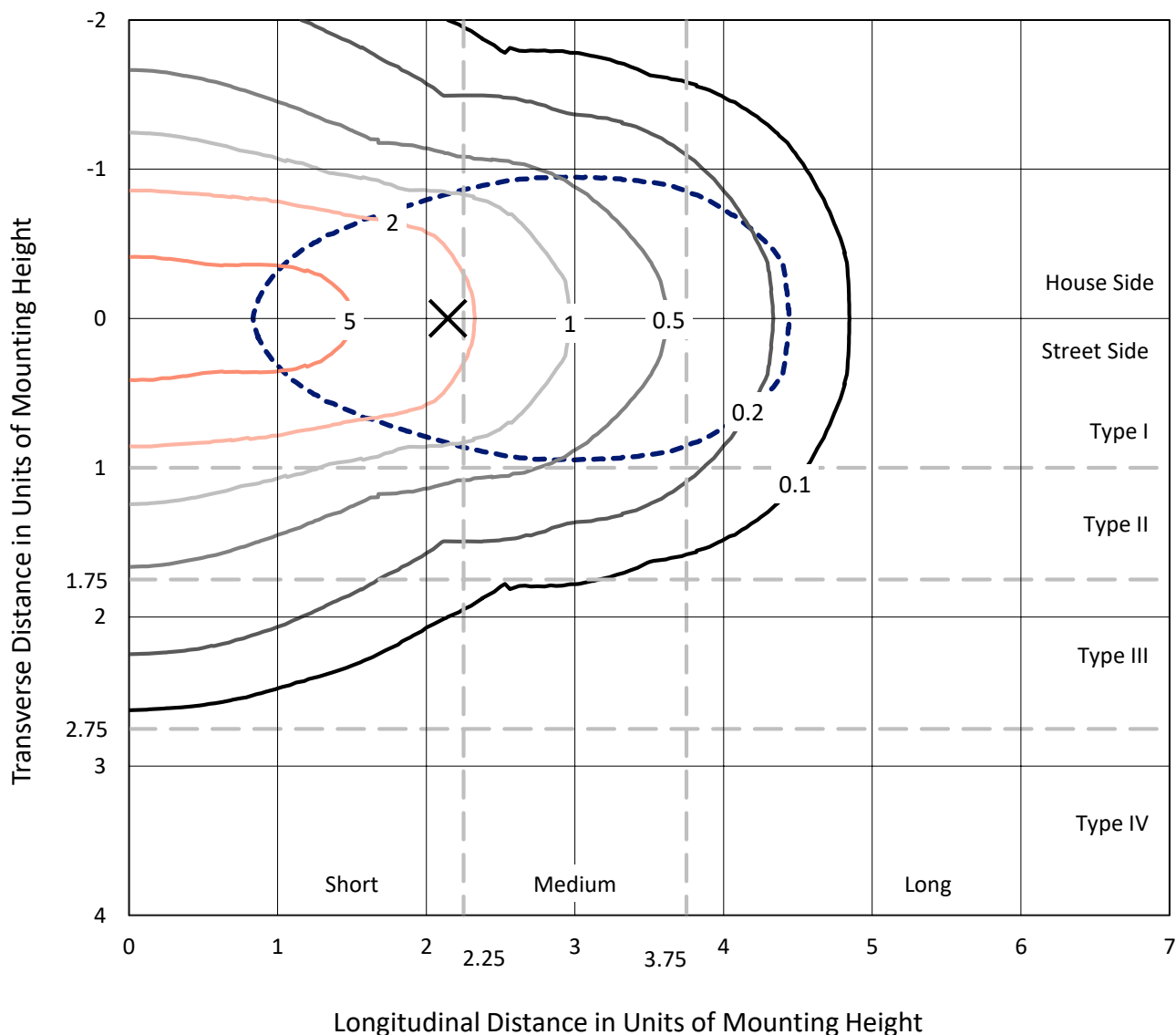
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

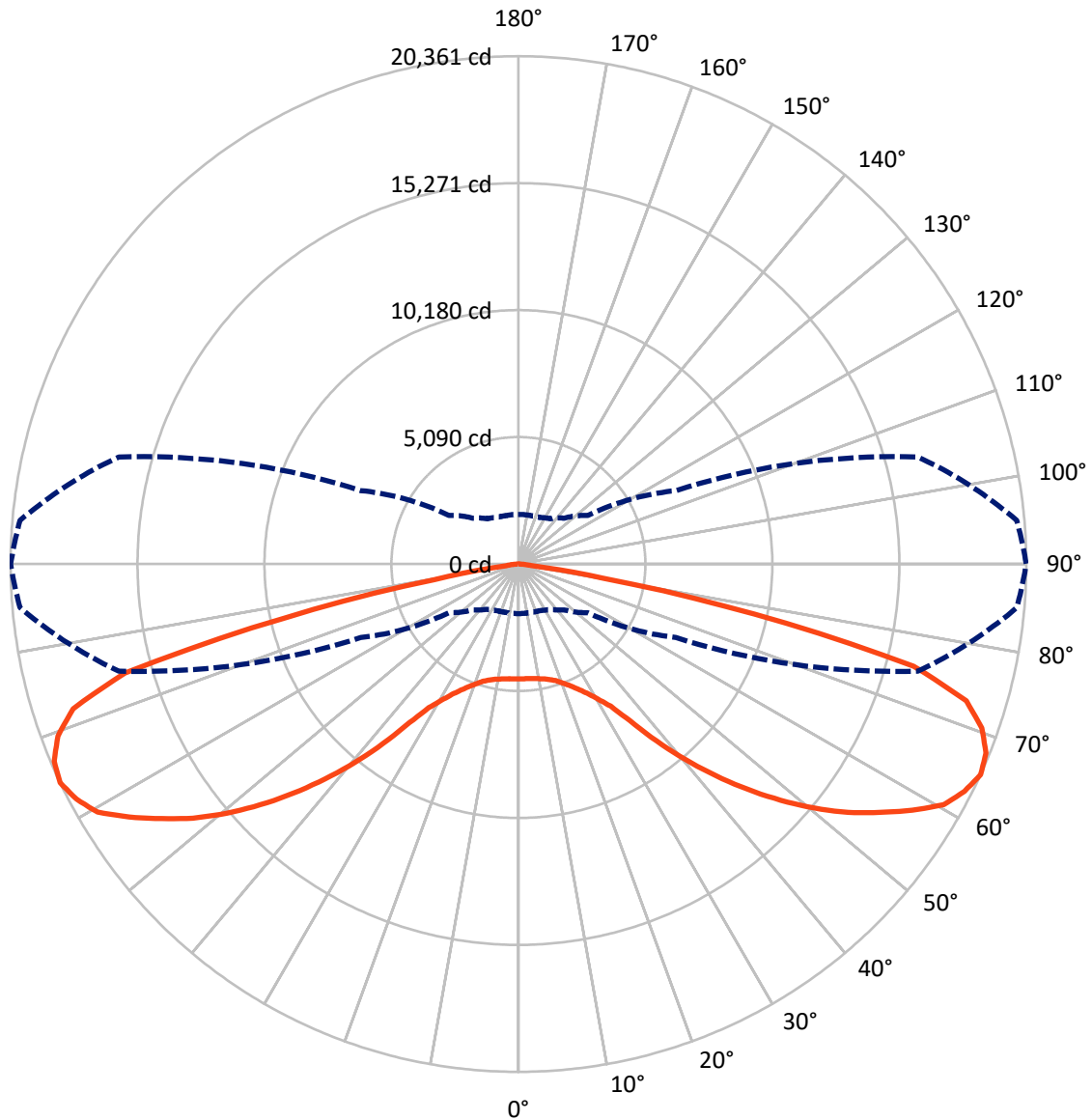
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	14011.5	0.0	14011.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14011.5	0.0	14011.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28023.0	0.0	28023.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.8	1.6
10°-20°	1302.9	4.6
20°-30°	2151.0	7.7
30°-40°	3151.7	11.2
40°-50°	4597.4	16.4
50°-60°	5952.1	21.2
60°-70°	6270.9	22.4
70°-80°	3827.4	13.7
80°-90°	330.9	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°	28023.0	100.0
0°-180°	28023.0	100.0



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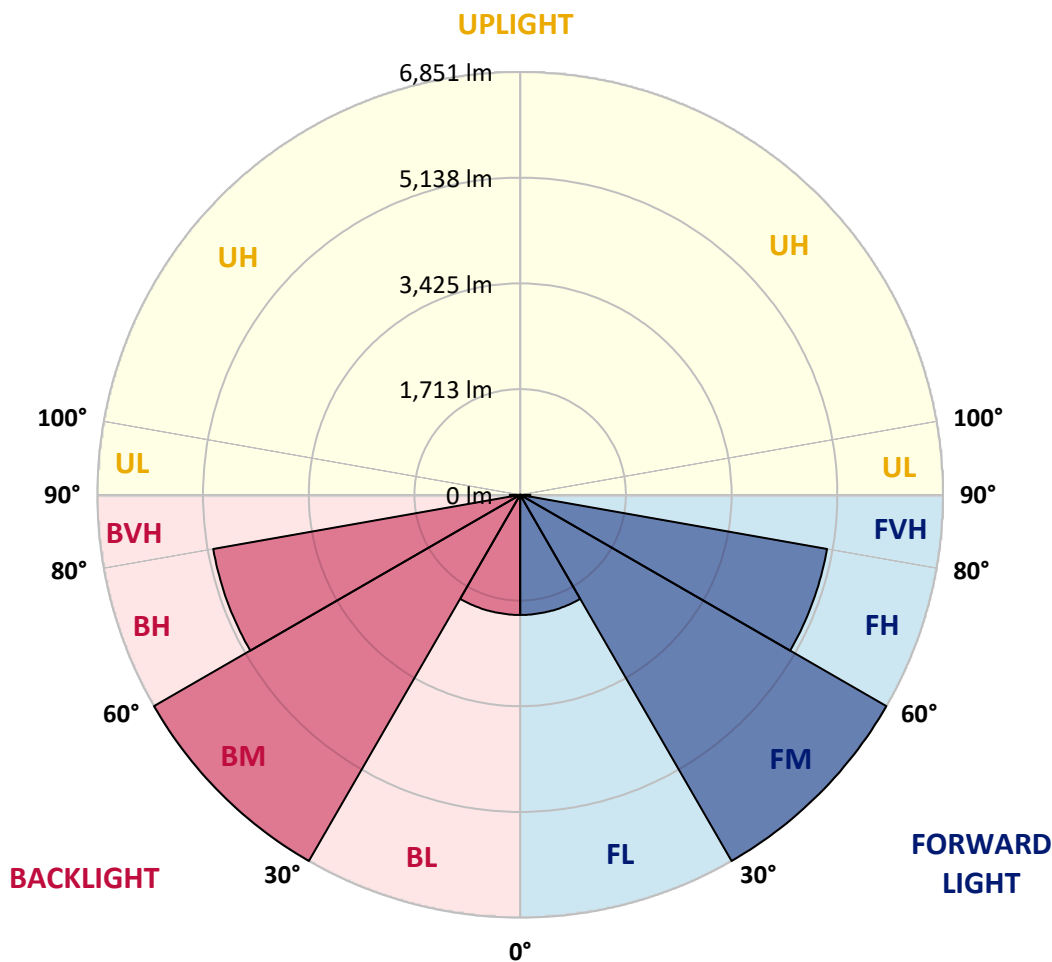
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.3	6.9			
FM (30°-60°)	6850.6	24.4			
FH (60°-80°)	5049.2	18.0			G3/7500
FVH (80°-90°)	165.4	0.6			G2/225
BL (0°-30°)	1946.3	6.9	B3/2500		
BM (30°-60°)	6850.6	24.4	B4/8500		
BH (60°-80°)	5049.2	18.0	B5		G5
BVH (80°-90°)	165.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4610.4	4610.4	4610.4	4610.4	4610.4	4610.4	4610.4	4610.4	4610.4	4610.4	4610.4
2.5°	4572.2	4609.2	4615.2	4599.7	4600.9	4598.5	4608.0	4611.6	4616.4	4609.2	4605.6
5°	4565.1	4597.3	4603.3	4596.1	4605.6	4603.3	4608.0	4616.4	4615.2	4612.8	4612.8
7.5°	4526.9	4550.7	4569.8	4565.1	4567.4	4583.0	4599.7	4627.1	4640.3	4640.3	4637.9
10°	4476.7	4501.8	4534.0	4526.9	4542.4	4574.6	4608.0	4636.7	4670.1	4677.2	4677.2
12.5°	4423.0	4457.6	4488.7	4495.8	4531.6	4568.6	4629.5	4673.7	4711.9	4728.6	4727.4
15°	4351.4	4381.3	4418.3	4444.5	4501.8	4581.8	4661.7	4729.8	4784.7	4807.3	4810.9
17.5°	4255.9	4288.2	4327.6	4382.5	4482.7	4597.3	4721.4	4813.3	4896.8	4920.7	4920.7
20°	4130.6	4165.2	4213.0	4297.7	4433.8	4612.8	4778.7	4923.1	5031.7	5087.8	5096.2
22.5°	3936.1	3974.3	4051.9	4198.7	4377.7	4610.4	4846.7	5052.0	5215.5	5288.3	5296.7
25°	3720.1	3769.0	3878.8	4072.2	4308.5	4608.0	4914.8	5197.6	5416.0	5528.2	5552.1
27.5°	3529.1	3575.7	3710.5	3949.2	4244.0	4612.8	4982.8	5364.7	5679.8	5840.9	5861.2
30°	3341.7	3383.5	3533.9	3817.9	4184.3	4618.8	5069.9	5556.8	5979.3	6225.2	6274.1
32.5°	3187.8	3229.6	3375.2	3678.3	4111.5	4631.9	5180.9	5813.4	6395.9	6763.5	6794.5
35°	3052.9	3100.7	3228.4	3537.5	4014.9	4651.0	5320.5	6150.0	6992.6	7670.5	7706.3
37.5°	2936.0	2974.2	3087.5	3388.3	3913.4	4654.6	5482.8	6545.0	7763.6	8764.9	9009.6
40°	2858.4	2884.6	2971.8	3251.0	3779.8	4624.7	5669.0	6986.6	8622.9	10036.0	10315.2
42.5°	2788.0	2811.8	2881.1	3124.5	3640.1	4567.4	5842.1	7440.2	9483.4	11334.5	11598.2
45°	2703.2	2722.3	2792.7	3017.1	3504.1	4479.1	5985.3	7860.3	10373.7	12639.0	12887.2
47.5°	2634.0	2648.3	2708.0	2920.4	3352.5	4337.1	6046.2	8241.0	11328.5	13845.6	14153.5
50°	2586.3	2581.5	2634.0	2820.2	3197.3	4139.0	5994.9	8522.6	12334.6	15053.4	15385.2
52.5°	2503.9	2508.7	2558.8	2716.4	3068.4	3894.3	5794.3	8720.8	13346.7	16156.1	16548.8
55°	2419.2	2426.3	2465.7	2607.8	2932.4	3661.6	5423.2	8748.2	14405.3	17309.0	17576.4
57.5°	2328.5	2332.1	2365.5	2490.8	2780.8	3420.5	4955.3	8574.0	15387.5	18366.5	18619.5
60°	2248.5	2249.7	2272.4	2369.1	2612.5	3160.3	4411.1	8224.3	16178.8	19178.0	19589.8
62.5°	2141.1	2141.1	2155.4	2236.6	2440.7	2891.8	3888.4	7682.4	16610.9	19770.0	20069.6
65°	1987.1	1989.5	2003.9	2056.4	2215.1	2599.4	3397.8	6966.3	16584.6	20060.0	20360.8
67.5°	1692.4	1686.4	1772.3	1858.2	1982.4	2303.4	2916.9	6263.4	15983.1	19935.9	20217.6
70°	1225.7	1217.3	1267.5	1389.2	1688.8	1923.9	2478.9	5676.2	14254.9	19471.6	19705.5
72.5°	1006.1	1010.9	1013.3	997.7	1130.2	1557.5	2070.7	4992.3	11761.7	18047.8	18775.8
75°	796.1	784.1	797.2	809.2	845.0	913.0	1675.6	4156.9	9545.5	15133.3	16361.4
77.5°	502.5	495.3	494.1	501.3	547.8	578.8	1026.4	3047.0	6641.7	9572.9	9654.1
80°	349.7	348.5	349.7	359.2	374.8	381.9	569.3	1669.7	3344.1	3486.2	3424.1
82.5°	248.2	239.9	232.7	250.6	242.3	235.1	342.5	765.0	902.3	614.6	498.9
85°	122.9	125.3	106.2	134.9	126.5	122.9	133.7	145.6	134.9	251.8	285.2
87.5°	34.6	33.4	37.0	43.0	41.8	47.7	43.0	46.5	54.9	95.5	94.3
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)