

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: P510338

Luminaire Tested: **VERD-M-CA4-250-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-250-750-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36243 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

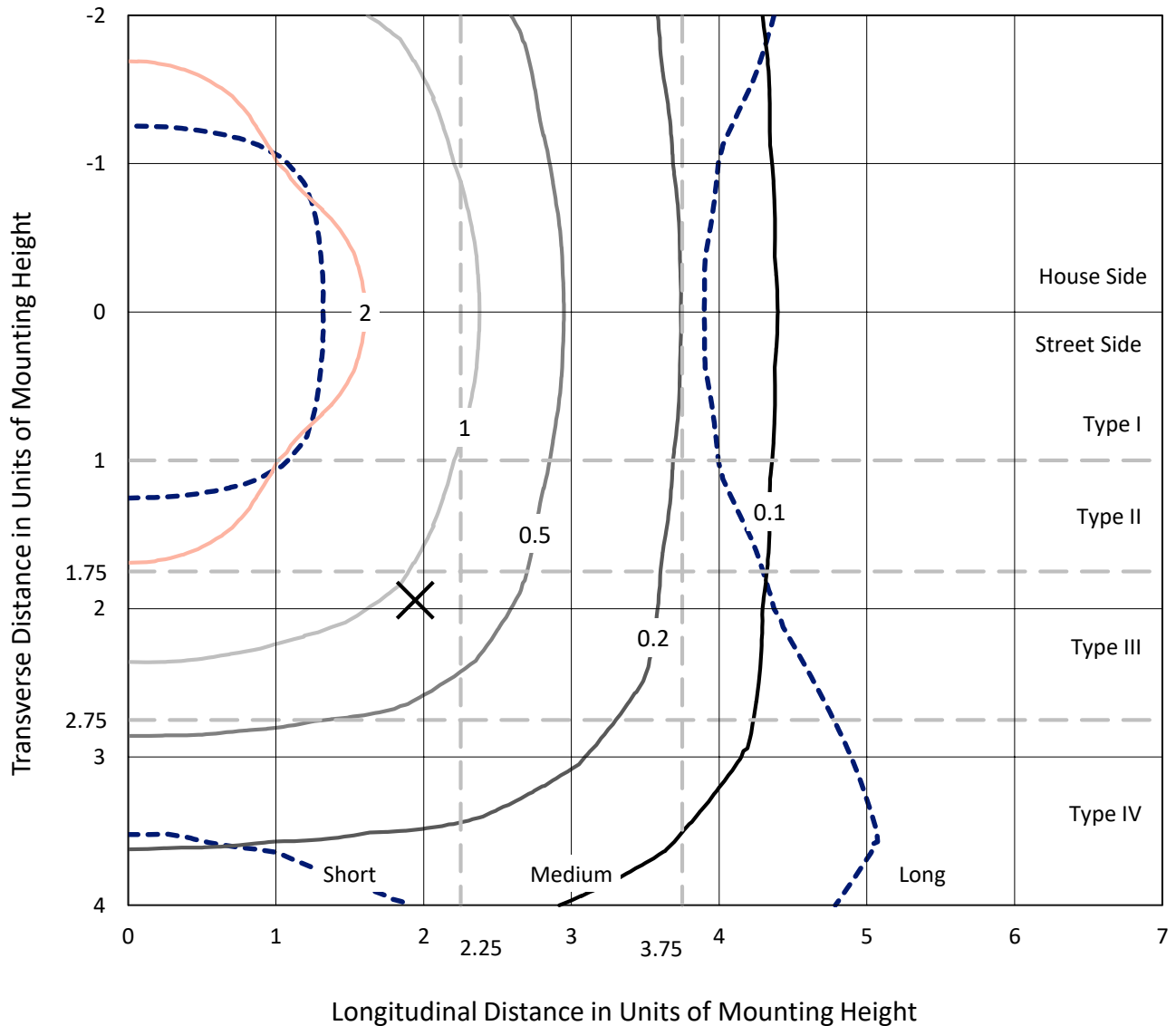
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

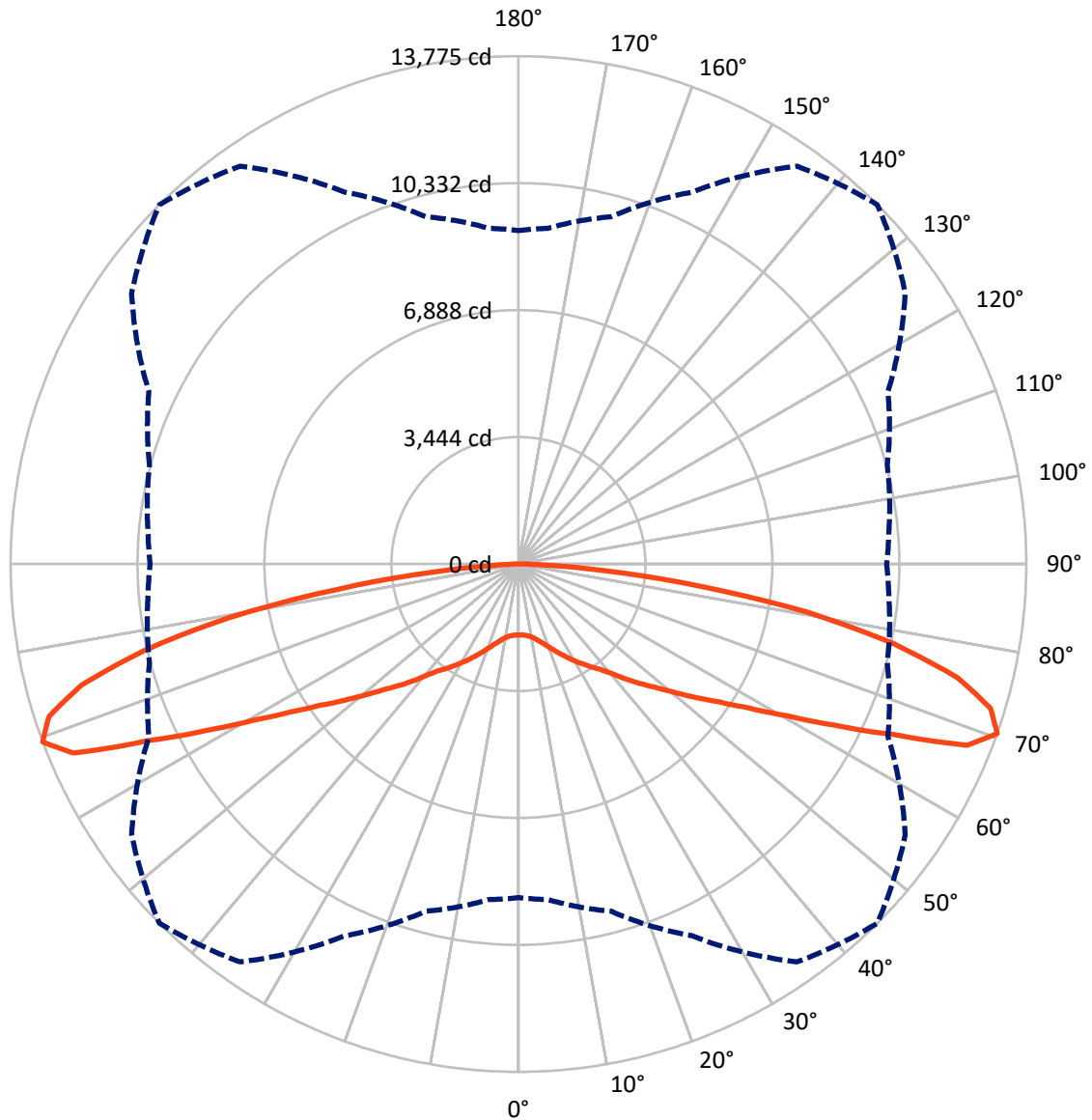
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18121.5	0.0	18121.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18121.5	0.0	18121.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36243.0	0.0	36243.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	0.5
10°-20°	624.0	1.7
20°-30°	1248.0	3.4
30°-40°	2171.4	6.0
40°-50°	3777.8	10.4
50°-60°	6577.5	18.1
60°-70°	10652.8	29.4
70°-80°	9138.9	25.2
80°-90°	1864.1	5.1
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°	36243.0	100.0
0°-180°	36243.0	100.0



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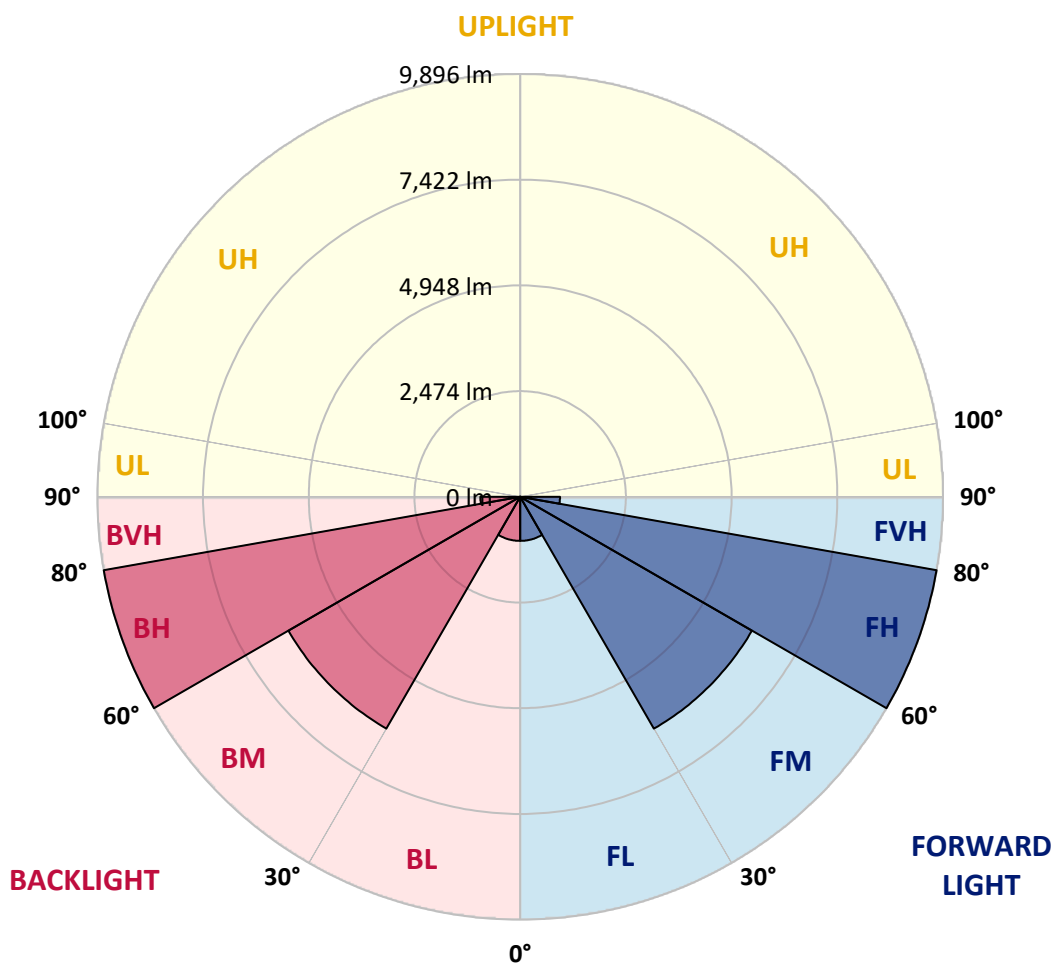
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1030.2	2.8			
FM	(30°-60°)	6263.3	17.3			
FH	(60°-80°)	9895.9	27.3			G4/12000
FVH	(80°-90°)	932.1	2.6			G5
BL	(0°-30°)	1030.2	2.8	B3/2500		
BM	(30°-60°)	6263.3	17.3	B4/8500		
BH	(60°-80°)	9895.9	27.3	B5		G4/12000
BVH	(80°-90°)	932.1	2.6			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1927.7	1927.7	1927.7	1927.7	1927.7	1927.7	1927.7	1927.7	1927.7	1927.7	1927.7
2.5°	1921.3	1932.5	1930.9	1927.7	1922.9	1922.9	1926.1	1937.2	1938.8	1938.8	1938.8
5°	1943.6	1954.7	1953.1	1950.0	1945.2	1943.6	1946.8	1957.9	1959.5	1959.5	1961.1
7.5°	1969.1	1981.8	1981.8	1980.2	1969.1	1969.1	1972.2	1986.5	1986.5	1989.7	1992.9
10°	2012.0	2026.3	2031.1	2024.7	2018.4	2015.2	2018.4	2032.7	2031.1	2027.9	2029.5
12.5°	2070.8	2085.2	2096.3	2094.7	2088.3	2085.2	2088.3	2096.3	2086.8	2074.0	2074.0
15°	2144.0	2163.1	2175.8	2175.8	2183.8	2179.0	2174.2	2175.8	2161.5	2150.4	2150.4
17.5°	2237.8	2253.8	2264.9	2274.4	2287.2	2287.2	2276.0	2272.8	2253.8	2244.2	2245.8
20°	2352.4	2365.1	2381.0	2388.9	2414.4	2416.0	2396.9	2388.9	2369.9	2357.1	2360.3
22.5°	2476.4	2498.7	2505.1	2528.9	2559.1	2560.7	2535.3	2517.8	2498.7	2489.1	2490.7
25°	2625.9	2648.2	2643.4	2664.1	2710.2	2715.0	2686.4	2660.9	2645.0	2635.5	2638.7
27.5°	2789.8	2812.0	2810.4	2810.4	2864.5	2885.2	2845.4	2818.4	2821.6	2804.1	2810.4
30°	2964.7	2983.8	2994.9	2975.8	3028.3	3061.7	2998.1	3001.3	2999.7	2988.6	2987.0
32.5°	3169.9	3187.4	3185.8	3173.1	3189.0	3236.7	3185.8	3201.7	3206.5	3208.1	3220.8
35°	3403.7	3424.4	3402.1	3384.6	3386.2	3432.3	3394.1	3419.6	3445.0	3454.6	3454.6
37.5°	3653.4	3664.5	3640.7	3613.6	3607.3	3632.7	3626.4	3667.7	3710.7	3734.5	3747.2
40°	3976.3	3985.8	3939.7	3887.2	3877.7	3906.3	3914.2	4004.9	4070.1	4114.7	4122.6
42.5°	4424.8	4423.2	4358.0	4261.0	4214.9	4259.4	4316.6	4421.6	4531.4	4540.9	4574.3
45°	5002.2	4979.9	4895.6	4750.9	4634.7	4618.8	4687.2	4843.1	4965.6	5018.1	5038.7
47.5°	5660.6	5635.2	5482.5	5258.2	5059.4	4997.4	5054.6	5250.3	5433.2	5509.5	5550.9
50°	6395.4	6365.2	6210.9	5907.2	5576.3	5463.4	5498.4	5741.7	5954.9	6051.9	6125.1
52.5°	7185.9	7181.2	6983.9	6634.0	6191.9	6008.9	5997.8	6290.5	6576.8	6705.6	6745.4
55°	8033.7	8009.8	7833.3	7453.1	6941.0	6599.0	6600.6	6925.1	7275.0	7443.6	7462.7
57.5°	8865.5	8856.0	8660.3	8335.9	7812.6	7362.5	7317.9	7749.0	8102.1	8240.4	8246.8
60°	9651.2	9681.4	9579.6	9282.2	8860.7	8351.8	8286.6	8650.8	8951.4	9070.7	9113.6
62.5°	10526.0	10535.5	10522.8	10303.3	9982.0	9638.5	9477.9	9663.9	9961.4	10060.0	10039.3
65°	11151.1	11213.1	11357.8	11470.8	11402.4	11139.9	10928.4	10937.9	10996.8	10933.2	10928.4
67.5°	10354.2	10489.4	10982.5	11776.1	12711.4	13120.1	12261.2	11302.2	10945.9	10715.3	10713.7
70°	9046.8	9137.5	9753.0	11125.6	13174.2	13775.4	12806.8	11057.2	10359.0	10085.4	9988.4
72.5°	7696.5	7768.1	8445.6	9846.9	12439.4	13388.9	12458.5	10338.3	9419.0	8816.2	8827.3
75°	6409.8	6398.6	6910.8	8350.2	11011.1	12296.2	11536.0	9201.1	7892.1	7343.4	7281.4
77.5°	4443.9	4545.7	5127.8	6599.0	8927.5	10405.1	10293.8	7574.0	6048.7	5463.4	5501.6
80°	2328.5	2392.1	3082.4	4480.5	6532.2	7981.2	7834.9	5356.8	3907.9	3260.5	3138.1
82.5°	970.2	1011.6	1409.2	2420.8	3992.2	4967.2	4900.4	3265.3	2179.0	1517.3	1514.2
85°	411.9	413.5	598.0	1037.0	2015.2	2360.3	1894.3	1402.8	763.4	478.7	427.8
87.5°	175.0	181.3	243.3	475.6	637.8	515.3	303.8	187.7	125.7	76.3	58.8
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)