

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: P510242

Luminaire Tested: **VERD-M-CA4-230-750-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510242  
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-CA4-230-750-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33982 lumens  
Efficiency: N/A  
Efficacy: 145.7 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

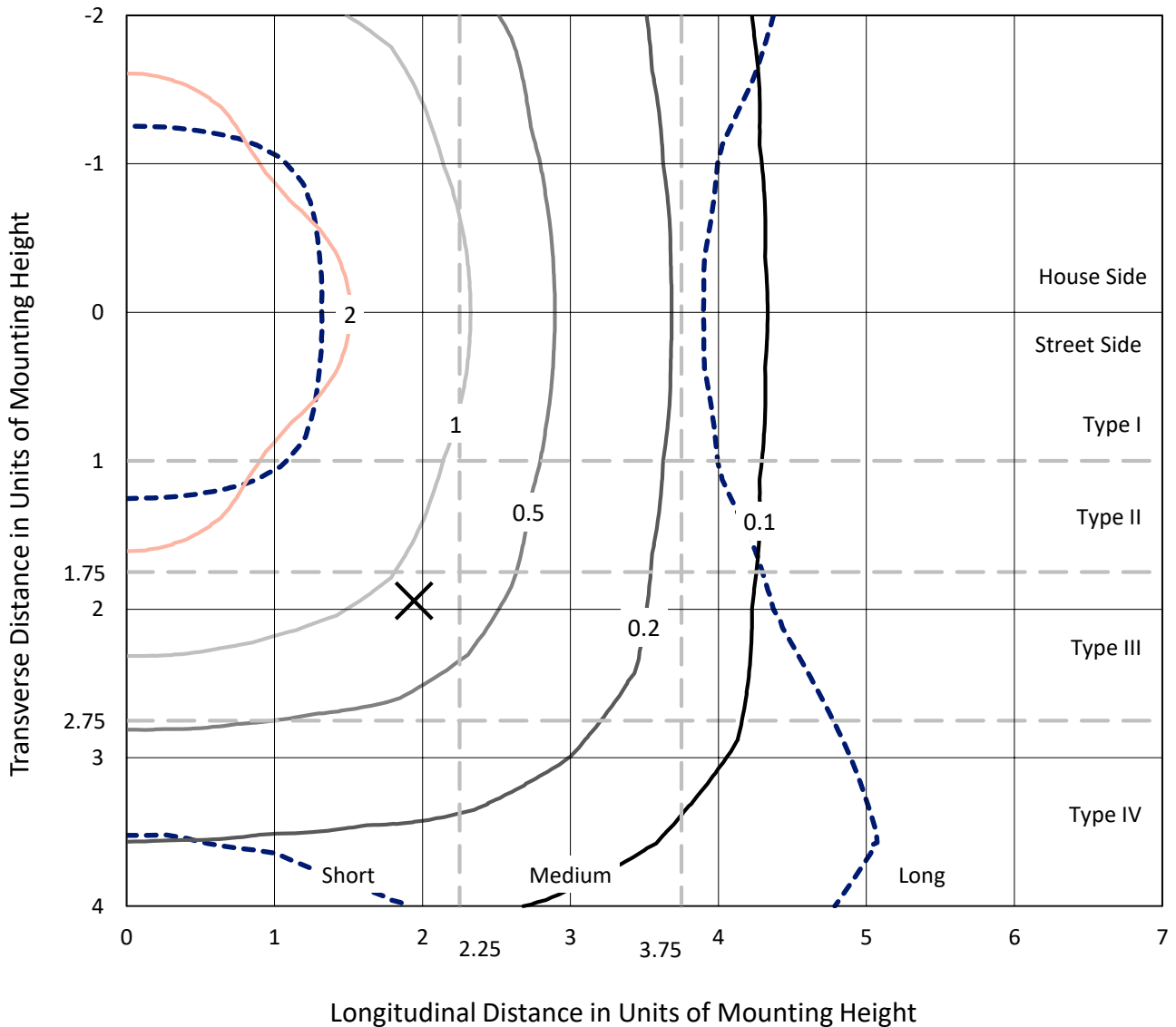
Input Watts (W): 233.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

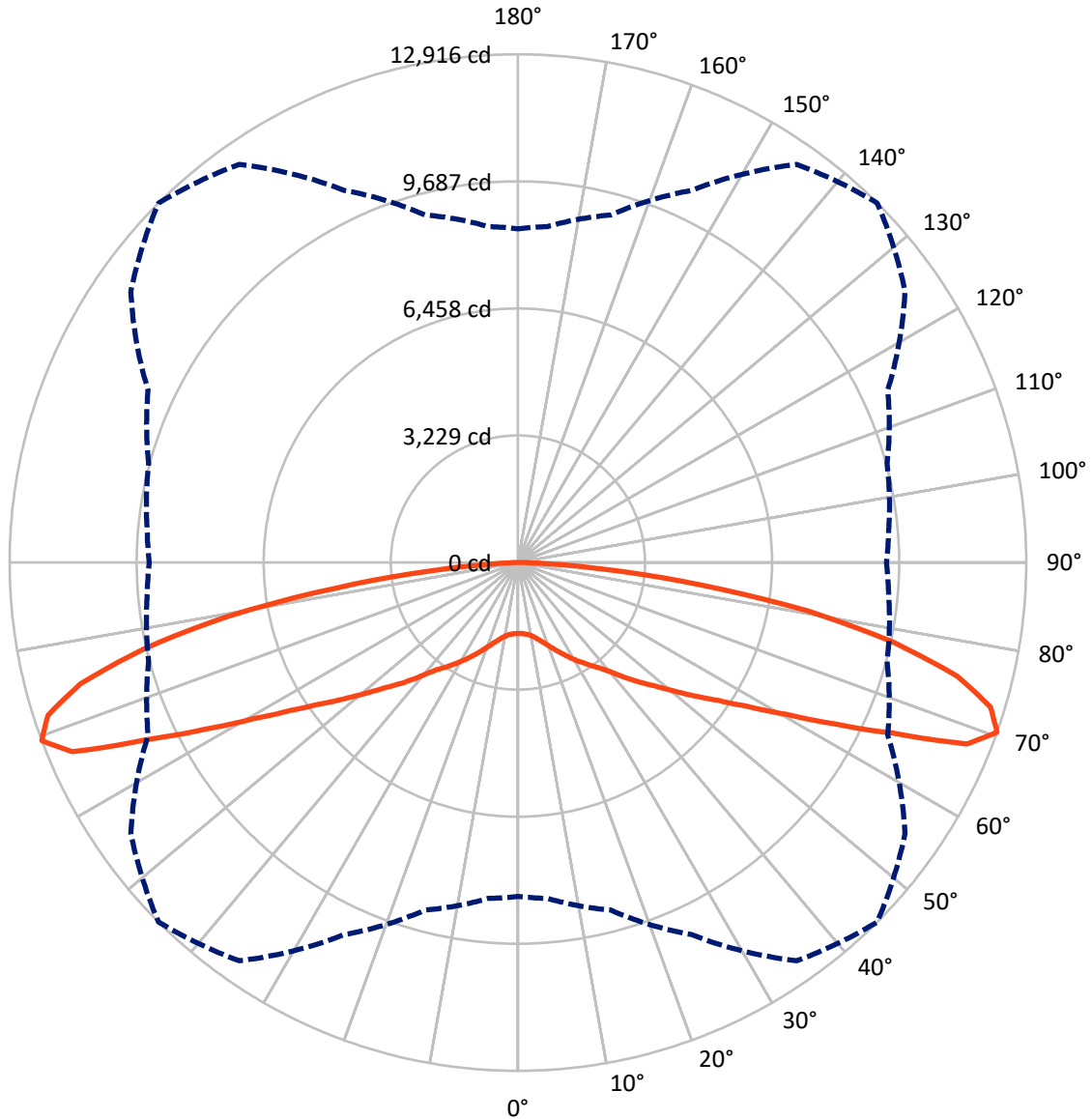
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	16991.0	0.0	16991.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16991.0	0.0	16991.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33982.0	0.0	33982.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.7	0.5
10°-20°	585.1	1.7
20°-30°	1170.1	3.4
30°-40°	2035.9	6.0
40°-50°	3542.1	10.4
50°-60°	6167.2	18.1
60°-70°	9988.2	29.4
70°-80°	8568.8	25.2
80°-90°	1747.8	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°	33982.0	100.0
0°-180°	33982.0	100.0



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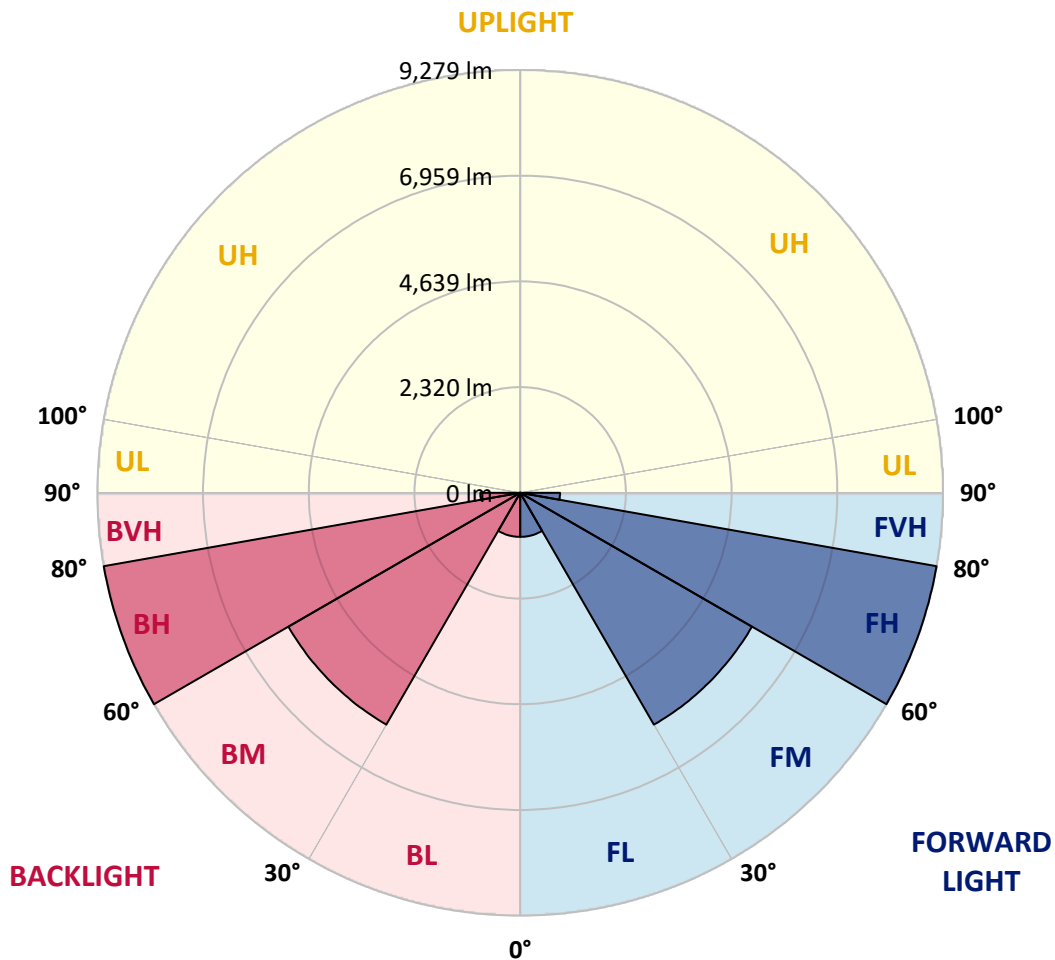
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.0	2.8			
FM	(30°-60°)	5872.6	17.3			
FH	(60°-80°)	9278.5	27.3			G4/12000
FVH	(80°-90°)	873.9	2.6			G5
BL	(0°-30°)	966.0	2.8	B2/1000		
BM	(30°-60°)	5872.6	17.3	B4/8500		
BH	(60°-80°)	9278.5	27.3	B5		G4/12000
BVH	(80°-90°)	873.9	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°	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4	1807.4
2.5°	1801.5	1811.9	1810.4	1807.4	1803.0	1803.0	1805.9	1816.4	1817.9	1817.9	1817.9
5°	1822.4	1832.8	1831.3	1828.3	1823.8	1822.4	1825.3	1835.8	1837.3	1837.3	1838.8
7.5°	1846.2	1858.1	1858.1	1856.7	1846.2	1846.2	1849.2	1862.6	1862.6	1865.6	1868.6
10°	1886.5	1899.9	1904.4	1898.4	1892.4	1889.5	1892.4	1905.9	1904.4	1901.4	1902.9
12.5°	1941.7	1955.1	1965.5	1964.0	1958.1	1955.1	1958.1	1965.5	1956.6	1944.6	1944.6
15°	2010.3	2028.2	2040.1	2040.1	2047.5	2043.1	2038.6	2040.1	2026.7	2016.2	2016.2
17.5°	2098.2	2113.2	2123.6	2132.5	2144.5	2144.5	2134.0	2131.0	2113.2	2104.2	2105.7
20°	2205.6	2217.5	2232.5	2239.9	2263.8	2265.3	2247.4	2239.9	2222.0	2210.1	2213.1
22.5°	2321.9	2342.8	2348.8	2371.1	2399.5	2401.0	2377.1	2360.7	2342.8	2333.9	2335.4
25°	2462.1	2483.0	2478.5	2497.9	2541.2	2545.6	2518.8	2494.9	2480.0	2471.1	2474.0
27.5°	2615.7	2636.6	2635.1	2635.1	2685.8	2705.2	2667.9	2642.6	2645.5	2629.1	2635.1
30°	2779.8	2797.7	2808.1	2790.2	2839.4	2870.7	2811.1	2814.1	2812.6	2802.1	2800.6
32.5°	2972.1	2988.5	2987.0	2975.1	2990.0	3034.8	2987.0	3002.0	3006.4	3007.9	3019.9
35°	3191.4	3210.7	3189.9	3173.5	3175.0	3218.2	3182.4	3206.3	3230.1	3239.1	3239.1
37.5°	3425.5	3435.9	3413.6	3388.2	3382.2	3406.1	3400.1	3438.9	3479.2	3501.5	3513.5
40°	3728.2	3737.2	3693.9	3644.7	3635.8	3662.6	3670.1	3755.1	3816.2	3858.0	3865.4
42.5°	4148.8	4147.3	4086.1	3995.2	3951.9	3993.7	4047.4	4145.8	4248.7	4257.6	4288.9
45°	4690.1	4669.2	4590.2	4454.5	4345.6	4330.7	4394.8	4541.0	4655.8	4705.0	4724.4
47.5°	5307.5	5283.6	5140.5	4930.2	4743.8	4685.6	4739.3	4922.7	5094.2	5165.8	5204.6
50°	5996.5	5968.1	5823.5	5538.6	5228.5	5122.6	5155.4	5383.5	5583.4	5674.3	5742.9
52.5°	6737.6	6733.2	6548.2	6220.2	5805.6	5634.1	5623.6	5898.0	6166.5	6287.3	6324.6
55°	7532.5	7510.1	7344.6	6988.2	6508.0	6187.4	6188.8	6493.1	6821.1	6979.2	6997.1
57.5°	8312.4	8303.5	8120.1	7815.8	7325.2	6903.2	6861.4	7265.6	7596.6	7726.4	7732.3
60°	9049.1	9077.5	8982.0	8703.2	8308.0	7830.8	7769.6	8111.1	8393.0	8504.8	8545.1
62.5°	9869.3	9878.3	9866.4	9660.6	9359.3	9037.2	8886.6	9061.1	9339.9	9432.4	9413.0
65°	10455.4	10513.6	10649.3	10755.2	10691.0	10445.0	10246.6	10255.6	10310.8	10251.1	10246.6
67.5°	9708.3	9835.0	10297.3	11041.5	11918.4	12301.6	11496.3	10597.1	10263.0	10046.8	10045.3
70°	8482.4	8567.4	9144.6	10431.6	12352.3	12916.0	12007.8	10367.4	9712.8	9456.3	9365.3
72.5°	7216.3	7283.4	7918.7	9232.6	11663.4	12553.7	11681.3	9693.4	8831.4	8266.2	8276.6
75°	6009.9	5999.4	6479.6	7829.3	10324.2	11529.1	10816.3	8627.1	7399.8	6885.3	6827.1
77.5°	4166.7	4262.1	4807.9	6187.4	8370.6	9756.0	9651.6	7101.5	5671.4	5122.6	5158.4
80°	2183.2	2242.9	2890.1	4201.0	6124.7	7483.3	7346.1	5022.7	3664.1	3057.1	2942.3
82.5°	909.7	948.5	1321.3	2269.7	3743.1	4657.3	4594.7	3061.6	2043.1	1422.7	1419.7
85°	386.2	387.7	560.7	972.3	1889.5	2213.1	1776.1	1315.3	715.8	448.9	401.2
87.5°	164.0	170.0	228.2	445.9	598.0	483.2	284.8	176.0	117.8	71.6	55.2
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)