

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: P510170

Luminaire Tested: **VERD-M-CA4-220-727-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510170  
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-CA4-220-727-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 1000mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27204 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

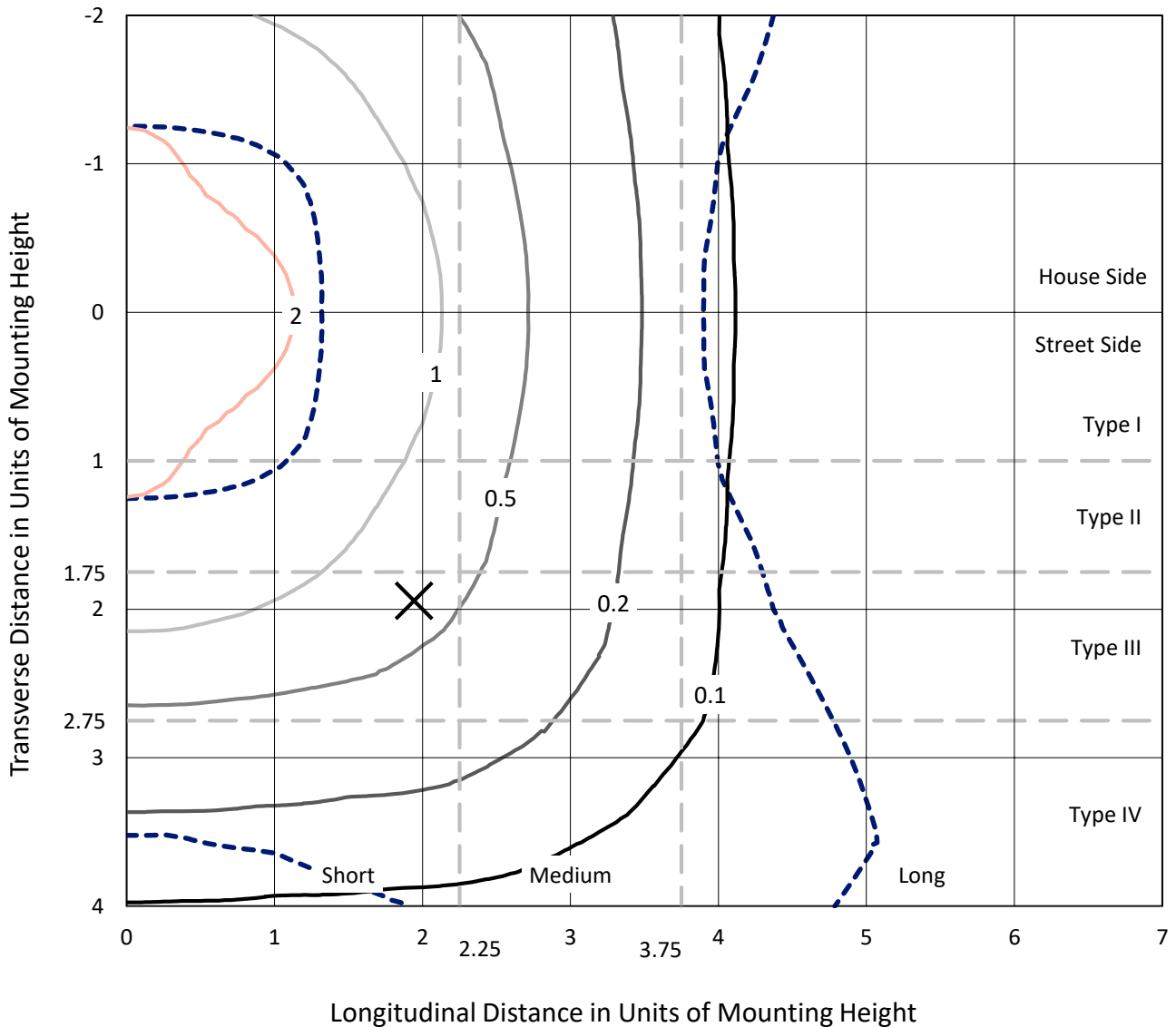
Input Watts (W): 222.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

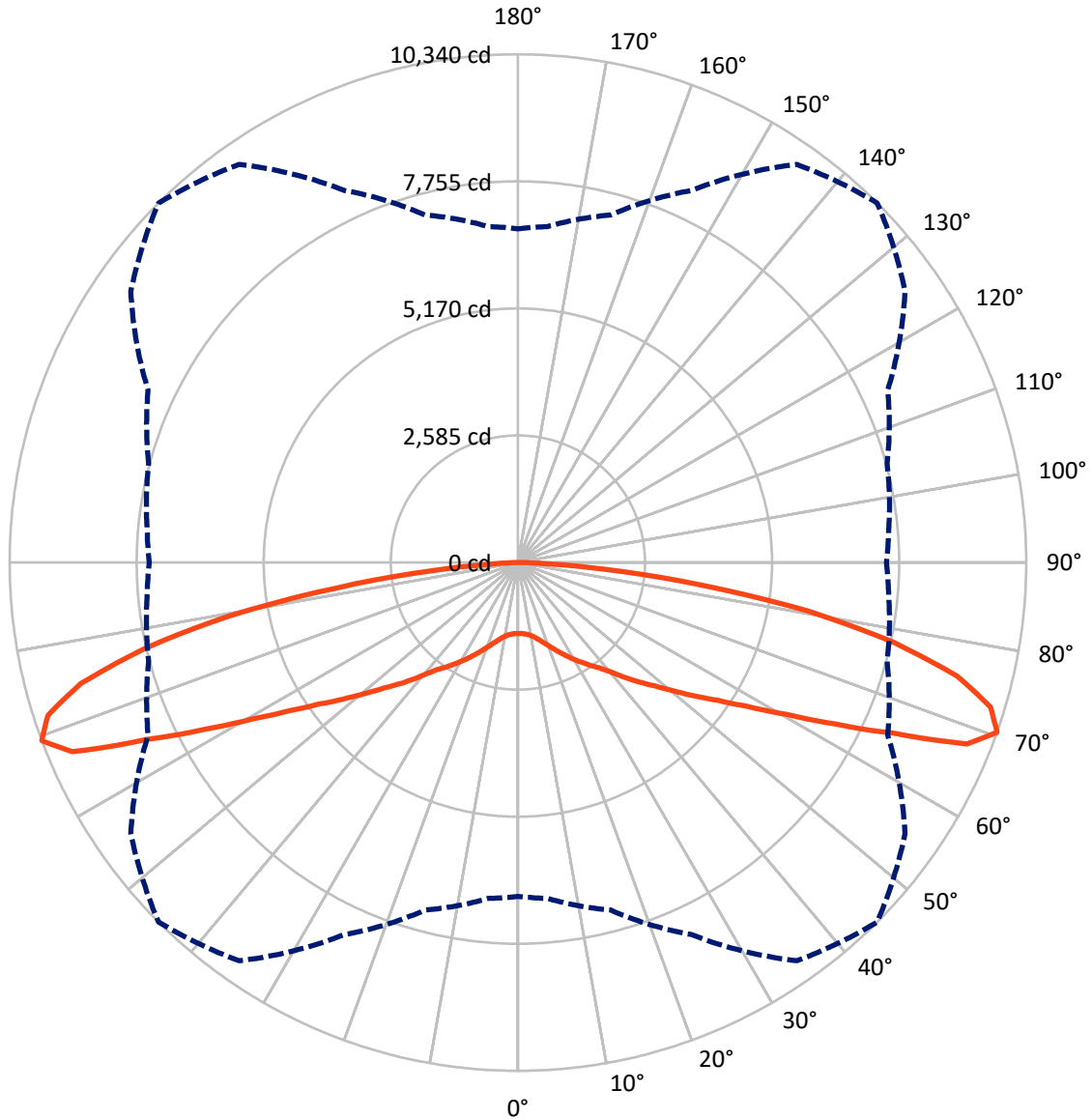
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	13602.0	0.0	13602.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13602.0	0.0	13602.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27204.0	0.0	27204.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.5	0.5
10°-20°	468.4	1.7
20°-30°	936.7	3.4
30°-40°	1629.8	6.0
40°-50°	2835.6	10.4
50°-60°	4937.1	18.1
60°-70°	7996.0	29.4
70°-80°	6859.7	25.2
80°-90°	1399.2	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°	27204.0	100.0
0°-180°	27204.0	100.0



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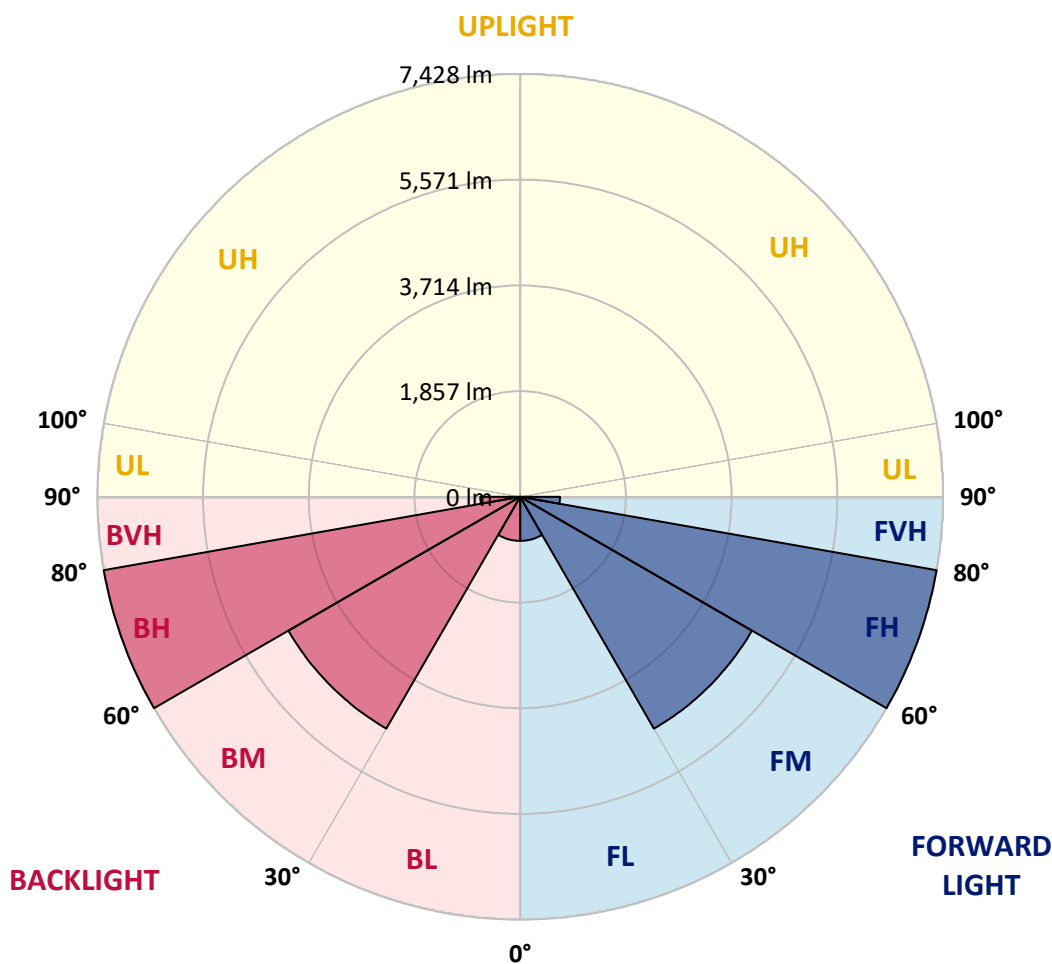
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.3	2.8			
FM	(30°-60°)	4701.3	17.3			
FH	(60°-80°)	7427.8	27.3			G3/7500
FVH	(80°-90°)	699.6	2.6			G4/750
BL	(0°-30°)	773.3	2.8	B2/1000		
BM	(30°-60°)	4701.3	17.3	B3/5000		
BH	(60°-80°)	7427.8	27.3	B5		G3/7500
BVH	(80°-90°)	699.6	2.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1442.2	1450.5	1449.3	1446.9	1443.3	1443.3	1445.7	1454.1	1455.3	1455.3	1455.3
5°	1458.9	1467.2	1466.0	1463.6	1460.1	1458.9	1461.3	1469.6	1470.8	1470.8	1472.0
7.5°	1478.0	1487.5	1487.5	1486.3	1478.0	1478.0	1480.4	1491.1	1491.1	1493.5	1495.9
10°	1510.2	1520.9	1524.5	1519.8	1515.0	1512.6	1515.0	1525.7	1524.5	1522.1	1523.3
12.5°	1554.4	1565.1	1573.5	1572.3	1567.5	1565.1	1567.5	1573.5	1566.3	1556.8	1556.8
15°	1609.3	1623.6	1633.2	1633.2	1639.1	1635.6	1632.0	1633.2	1622.4	1614.1	1614.1
17.5°	1679.7	1691.7	1700.0	1707.2	1716.7	1716.7	1708.4	1706.0	1691.7	1684.5	1685.7
20°	1765.7	1775.2	1787.2	1793.1	1812.2	1813.4	1799.1	1793.1	1778.8	1769.3	1771.7
22.5°	1858.8	1875.5	1880.3	1898.2	1920.9	1922.1	1903.0	1889.8	1875.5	1868.4	1869.5
25°	1971.0	1987.7	1984.2	1999.7	2034.3	2037.9	2016.4	1997.3	1985.4	1978.2	1980.6
27.5°	2094.0	2110.7	2109.5	2109.5	2150.1	2165.6	2135.8	2115.5	2117.9	2104.7	2109.5
30°	2225.3	2239.6	2248.0	2233.7	2273.1	2298.1	2250.4	2252.8	2251.6	2243.2	2242.0
32.5°	2379.3	2392.5	2391.3	2381.7	2393.6	2429.5	2391.3	2403.2	2406.8	2408.0	2417.5
35°	2554.8	2570.3	2553.6	2540.5	2541.7	2576.3	2547.6	2566.8	2585.9	2593.0	2593.0
37.5°	2742.2	2750.6	2732.7	2712.4	2707.6	2726.7	2721.9	2753.0	2785.2	2803.1	2812.7
40°	2984.6	2991.8	2957.1	2917.7	2910.6	2932.1	2938.0	3006.1	3055.0	3088.5	3094.4
42.5°	3321.3	3320.1	3271.1	3198.3	3163.7	3197.1	3240.1	3318.9	3401.2	3408.4	3433.5
45°	3754.6	3737.9	3674.6	3566.0	3478.8	3466.9	3518.2	3635.2	3727.2	3766.6	3782.1
47.5°	4248.9	4229.8	4115.2	3946.8	3797.6	3751.0	3794.0	3940.9	4078.1	4135.5	4166.5
50°	4800.4	4777.7	4661.9	4433.9	4185.6	4100.8	4127.1	4309.8	4469.7	4542.6	4597.5
52.5°	5393.8	5390.2	5242.1	4979.5	4647.6	4510.3	4502.0	4721.6	4936.5	5033.2	5063.1
55°	6030.1	6012.2	5879.6	5594.3	5209.9	4953.2	4954.4	5198.0	5460.6	5587.2	5601.5
57.5°	6654.5	6647.3	6500.4	6256.9	5864.1	5526.3	5492.8	5816.4	6081.4	6185.3	6190.0
60°	7244.2	7266.9	7190.5	6967.2	6650.9	6268.8	6219.9	6493.3	6718.9	6808.5	6840.7
62.5°	7900.8	7908.0	7898.4	7733.7	7492.5	7234.7	7114.1	7253.8	7477.0	7551.0	7535.5
65°	8370.0	8416.6	8525.2	8610.0	8558.6	8361.6	8202.9	8210.0	8254.2	8206.4	8202.9
67.5°	7771.9	7873.4	8243.4	8839.2	9541.1	9848.0	9203.3	8483.4	8216.0	8042.9	8041.7
70°	6790.5	6858.6	7320.6	8350.9	9888.6	10339.8	9612.8	8299.6	7775.5	7570.1	7497.3
72.5°	5777.0	5830.7	6339.3	7391.0	9337.0	10049.7	9351.3	7759.9	7069.9	6617.4	6625.8
75°	4811.2	4802.8	5187.2	6267.6	8264.9	9229.6	8658.9	6906.4	5923.8	5511.9	5465.4
77.5°	3335.6	3412.0	3848.9	4953.2	6701.0	7810.1	7726.5	5685.1	4540.2	4100.8	4129.5
80°	1747.8	1795.5	2313.7	3363.0	4903.1	5990.7	5880.8	4020.8	2933.3	2447.4	2355.4
82.5°	728.2	759.3	1057.7	1817.0	2996.5	3728.4	3678.2	2450.9	1635.6	1138.9	1136.5
85°	309.2	310.4	448.9	778.4	1512.6	1771.7	1421.9	1053.0	573.0	359.3	321.1
87.5°	131.3	136.1	182.7	357.0	478.7	386.8	228.0	140.9	94.3	57.3	44.2
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)