

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: P510122

Luminaire Tested: **VERD-M-CA4-210-727-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510122  
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-CA4-210-727-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 960mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26255 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

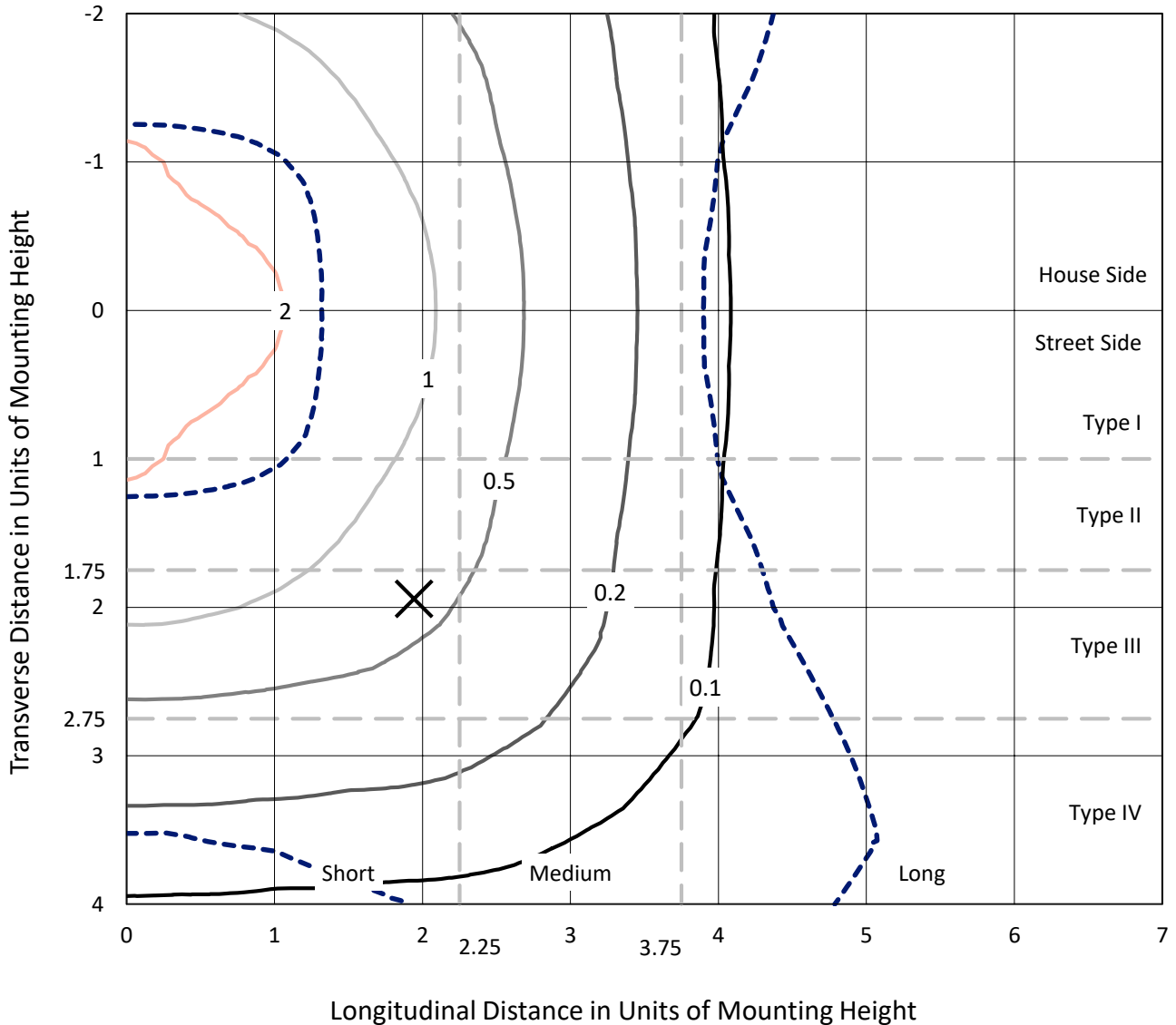
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

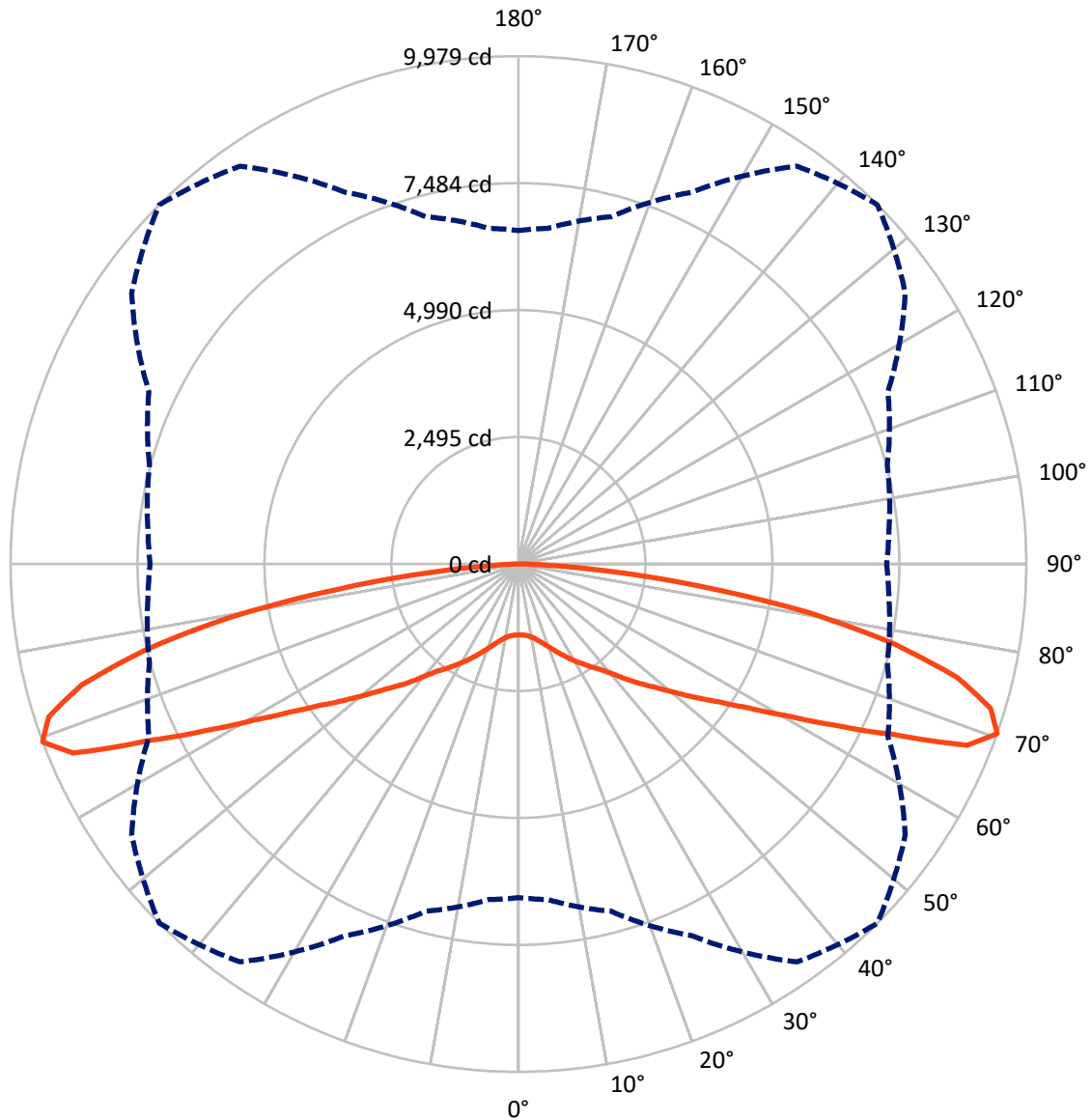
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	13127.5	0.0	13127.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13127.5	0.0	13127.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26255.0	0.0	26255.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	0.5
10°-20°	452.0	1.7
20°-30°	904.0	3.4
30°-40°	1573.0	6.0
40°-50°	2736.7	10.4
50°-60°	4764.9	18.1
60°-70°	7717.1	29.4
70°-80°	6620.4	25.2
80°-90°	1350.4	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°	26255.0	100.0
0°-180°	26255.0	100.0



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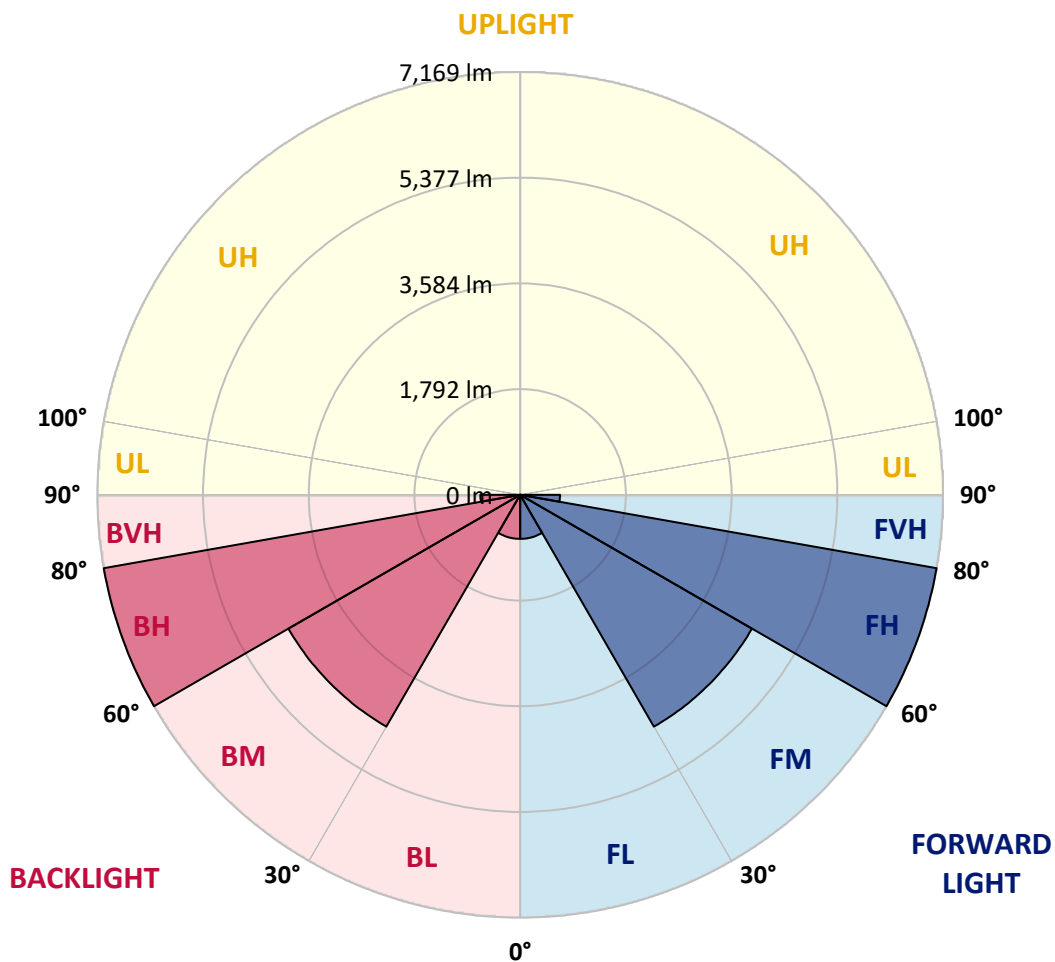
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.3	2.8			
FM	(30°-60°)	4537.3	17.3			
FH	(60°-80°)	7168.7	27.3			G3/7500
FVH	(80°-90°)	675.2	2.6			G4/750
BL	(0°-30°)	746.3	2.8	B2/1000		
BM	(30°-60°)	4537.3	17.3	B3/5000		
BH	(60°-80°)	7168.7	27.3	B5		G3/7500
BVH	(80°-90°)	675.2	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°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1391.8	1399.9	1398.8	1396.5	1393.0	1393.0	1395.3	1403.4	1404.5	1404.5	1404.5
5°	1408.0	1416.0	1414.9	1412.6	1409.1	1408.0	1410.3	1418.3	1419.5	1419.5	1420.7
7.5°	1426.4	1435.6	1435.6	1434.5	1426.4	1426.4	1428.7	1439.1	1439.1	1441.4	1443.7
10°	1457.5	1467.9	1471.3	1466.7	1462.1	1459.8	1462.1	1472.5	1471.3	1469.0	1470.2
12.5°	1500.2	1510.5	1518.6	1517.4	1512.8	1510.5	1512.8	1518.6	1511.7	1502.5	1502.5
15°	1553.2	1567.0	1576.2	1576.2	1582.0	1578.5	1575.0	1576.2	1565.8	1557.8	1557.8
17.5°	1621.1	1632.7	1640.7	1647.6	1656.9	1656.9	1648.8	1646.5	1632.7	1625.7	1626.9
20°	1704.1	1713.3	1724.8	1730.6	1749.0	1750.2	1736.4	1730.6	1716.8	1707.5	1709.9
22.5°	1794.0	1810.1	1814.7	1832.0	1853.9	1855.0	1836.6	1823.9	1810.1	1803.2	1804.3
25°	1902.3	1918.4	1914.9	1929.9	1963.3	1966.8	1946.1	1927.6	1916.1	1909.2	1911.5
27.5°	2020.9	2037.1	2035.9	2035.9	2075.1	2090.1	2061.3	2041.7	2044.0	2031.3	2035.9
30°	2147.7	2161.5	2169.6	2155.7	2193.8	2218.0	2171.9	2174.2	2173.0	2165.0	2163.8
32.5°	2296.3	2309.0	2307.8	2298.6	2310.1	2344.7	2307.8	2319.4	2322.8	2324.0	2333.2
35°	2465.7	2480.7	2464.5	2451.9	2453.0	2486.4	2458.8	2477.2	2495.6	2502.6	2502.6
37.5°	2646.6	2654.6	2637.4	2617.8	2613.2	2631.6	2627.0	2657.0	2688.1	2705.3	2714.6
40°	2880.5	2887.4	2854.0	2816.0	2809.0	2829.8	2835.5	2901.2	2948.5	2980.7	2986.5
42.5°	3205.4	3204.2	3157.0	3086.7	3053.3	3085.6	3127.0	3203.1	3282.6	3289.5	3313.7
45°	3623.6	3607.5	3546.4	3441.6	3357.5	3346.0	3395.5	3508.4	3597.1	3635.2	3650.1
47.5°	4100.6	4082.2	3971.6	3809.1	3665.1	3620.2	3661.7	3803.4	3935.9	3991.2	4021.1
50°	4633.0	4611.1	4499.3	4279.2	4039.6	3957.8	3983.1	4159.4	4313.8	4384.1	4437.1
52.5°	5205.6	5202.1	5059.3	4805.8	4485.5	4353.0	4344.9	4556.9	4764.3	4857.6	4886.4
55°	5819.7	5802.4	5674.5	5399.2	5028.2	4780.4	4781.6	5016.6	5270.1	5392.3	5406.1
57.5°	6422.3	6415.4	6273.7	6038.6	5659.6	5333.5	5301.2	5613.5	5869.3	5969.5	5974.1
60°	6991.5	7013.4	6939.6	6724.2	6418.9	6050.2	6002.9	6266.8	6484.5	6570.9	6602.1
62.5°	7625.2	7632.1	7622.9	7463.9	7231.2	6982.3	6865.9	7000.7	7216.2	7287.6	7272.6
65°	8078.0	8122.9	8227.8	8309.6	8260.1	8069.9	7916.7	7923.6	7966.2	7920.2	7916.7
67.5°	7500.8	7598.7	7955.9	8530.8	9208.3	9504.4	8882.2	8187.5	7929.4	7762.3	7761.2
70°	6553.7	6619.3	7065.2	8059.6	9543.6	9979.1	9277.4	8010.0	7504.2	7306.0	7235.8
72.5°	5575.5	5627.3	6118.1	7133.2	9011.3	9699.1	9025.1	7489.2	6823.3	6386.6	6394.7
75°	4643.3	4635.3	5006.3	6049.0	7976.6	8907.6	8356.8	6665.4	5717.2	5319.7	5274.7
77.5°	3219.2	3293.0	3714.7	4780.4	6467.2	7537.6	7457.0	5486.7	4381.8	3957.8	3985.4
80°	1686.8	1732.9	2232.9	3245.7	4732.0	5781.7	5675.7	3880.6	2830.9	2362.0	2273.3
82.5°	702.8	732.8	1020.8	1753.6	2892.0	3598.3	3549.9	2365.4	1578.5	1099.2	1096.9
85°	298.4	299.6	433.2	751.2	1459.8	1709.9	1372.3	1016.2	553.1	346.8	309.9
87.5°	126.7	131.3	176.3	344.5	462.0	373.3	220.1	136.0	91.0	55.3	42.6
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)