

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: P510314

Luminaire Tested: **VERD-M-CA4-250-727-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510314
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-CA4-250-727-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30138 lumens
Efficiency: N/A
Efficacy: 119.7 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

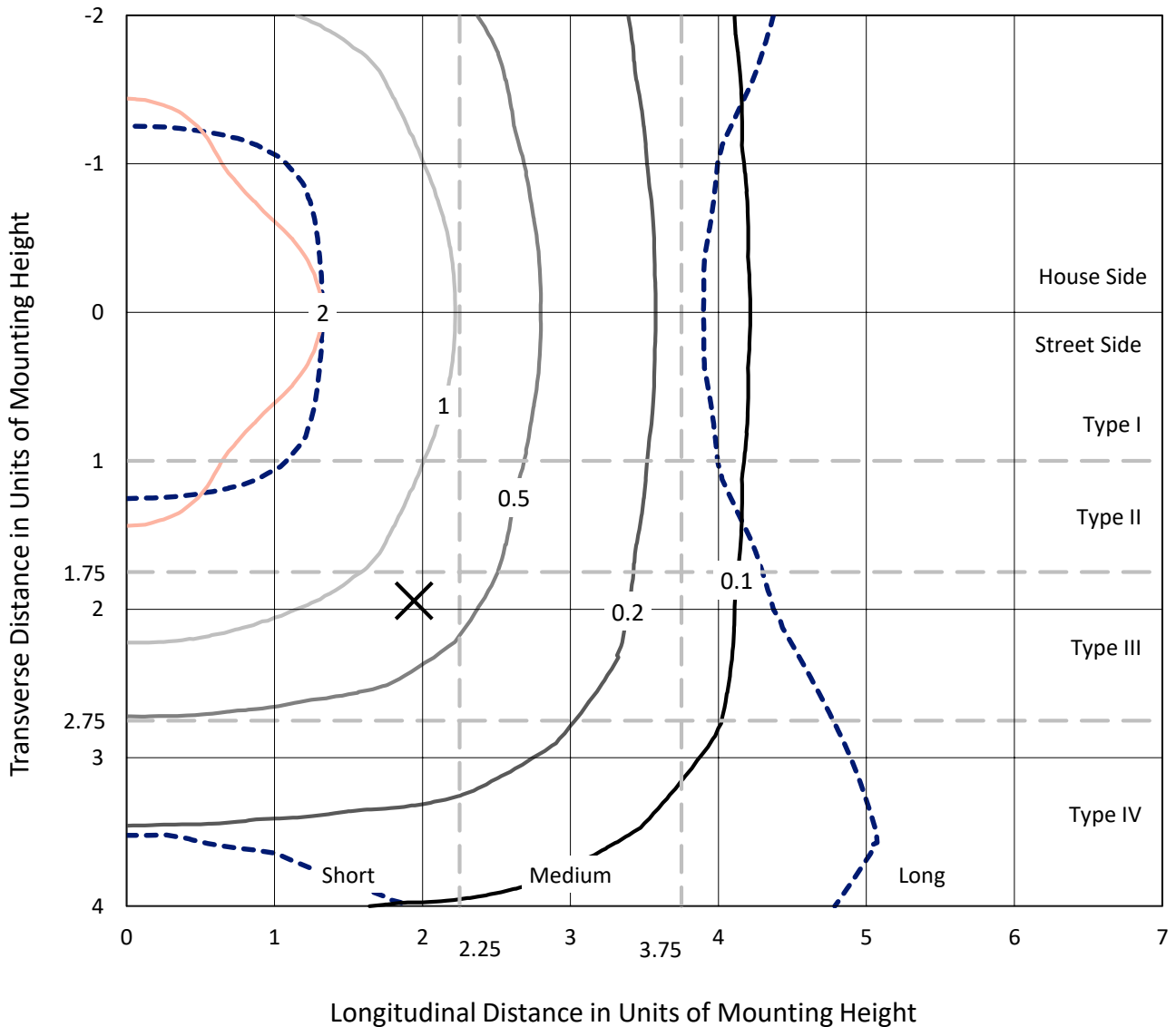
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

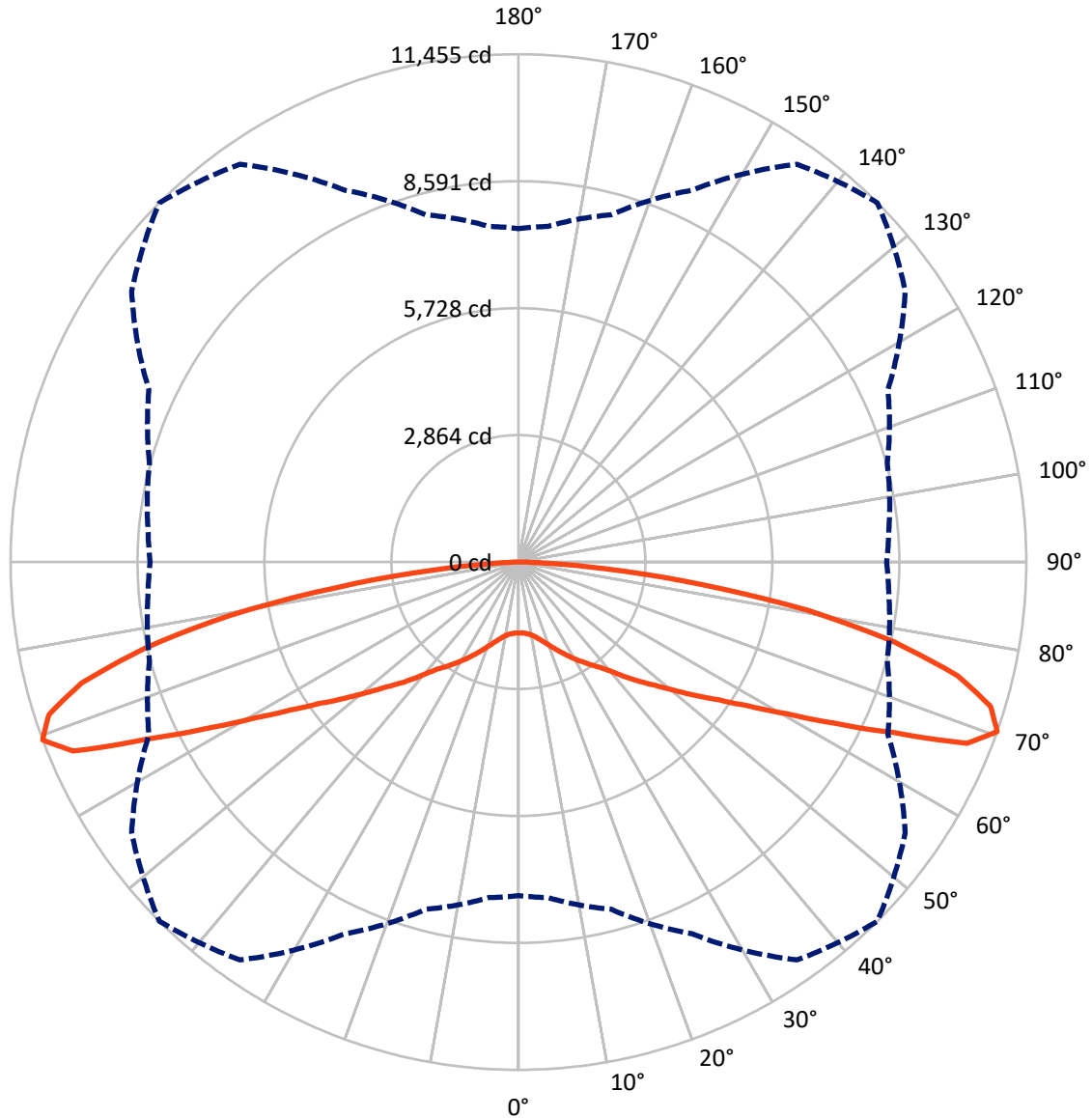
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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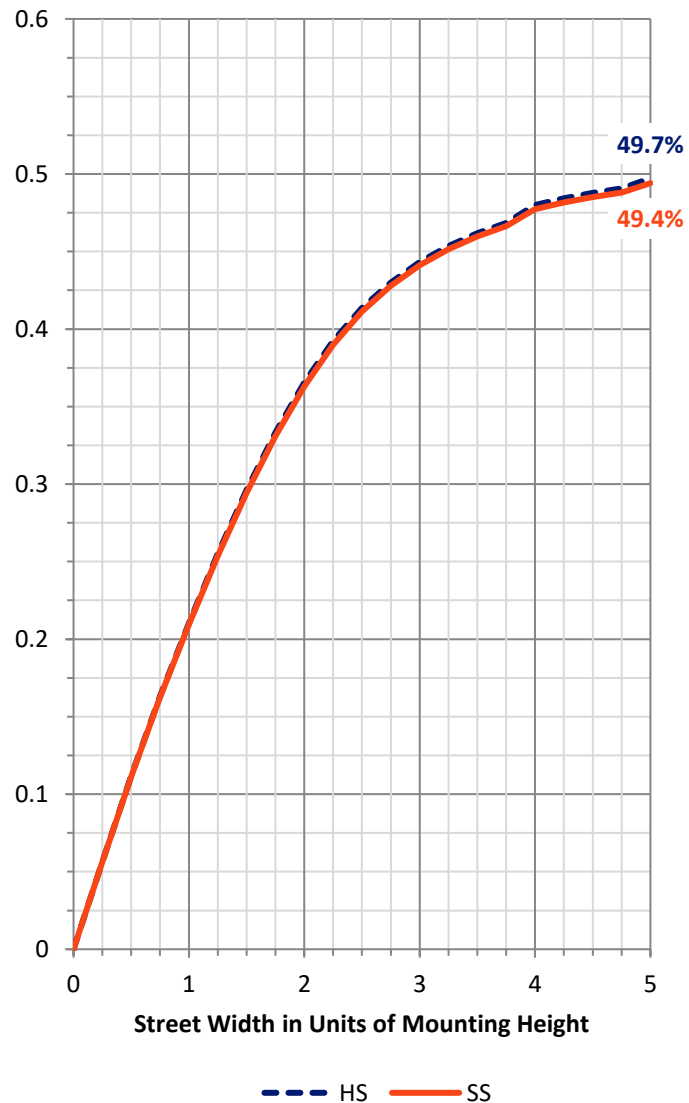
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15069.0	0.0	15069.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15069.0	0.0	15069.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30138.0	0.0	30138.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	0.5
10°-20°	518.9	1.7
20°-30°	1037.7	3.4
30°-40°	1805.6	6.0
40°-50°	3141.4	10.4
50°-60°	5469.6	18.1
60°-70°	8858.4	29.4
70°-80°	7599.5	25.2
80°-90°	1550.1	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°	30138.0	100.0
0°-180°	30138.0	100.0



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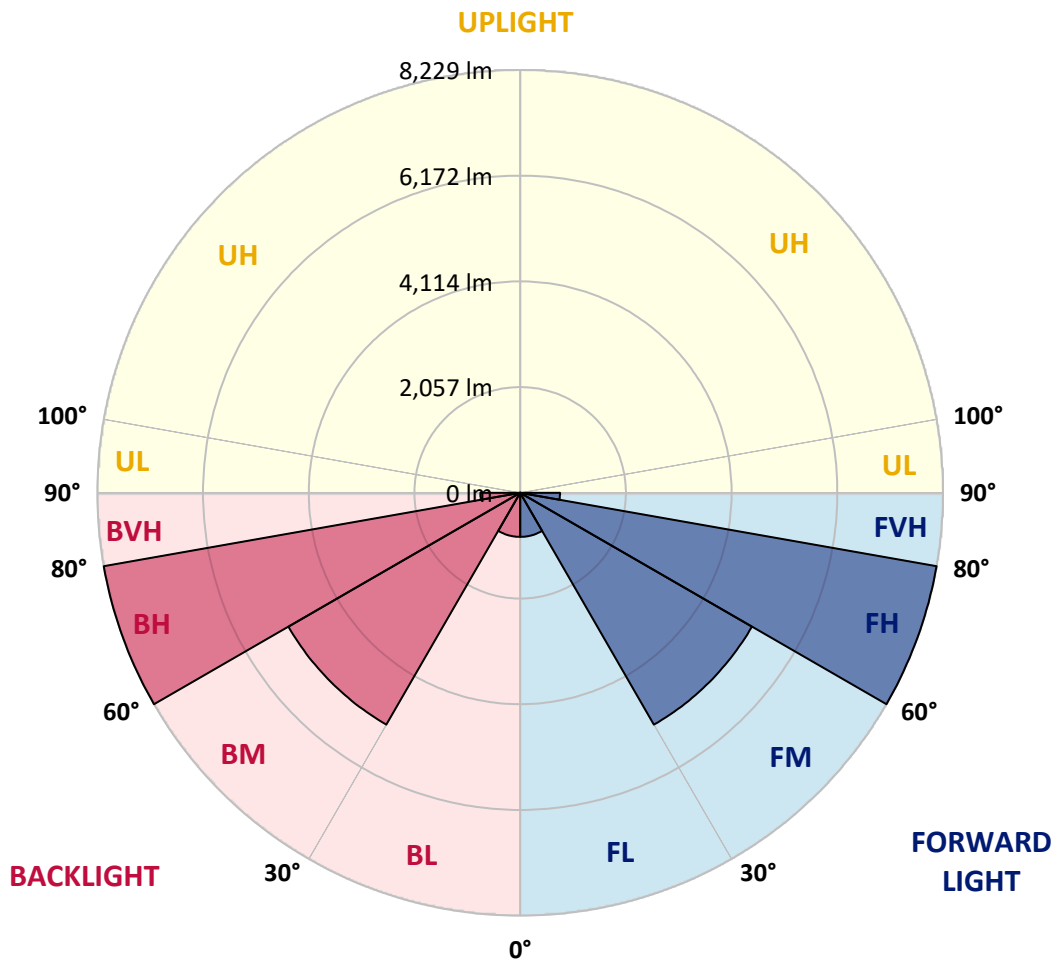
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.7	2.8			
FM	(30°-60°)	5208.3	17.3			
FH	(60°-80°)	8229.0	27.3			G4/12000
FVH	(80°-90°)	775.1	2.6			G5
BL	(0°-30°)	856.7	2.8	B2/1000		
BM	(30°-60°)	5208.3	17.3	B4/8500		
BH	(60°-80°)	8229.0	27.3	B5		G4/12000
BVH	(80°-90°)	775.1	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°	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0	1603.0
2.5°	1597.7	1607.0	1605.6	1603.0	1599.0	1599.0	1601.7	1610.9	1612.2	1612.2	1612.2
5°	1616.2	1625.5	1624.1	1621.5	1617.5	1616.2	1618.9	1628.1	1629.4	1629.4	1630.8
7.5°	1637.4	1648.0	1648.0	1646.6	1637.4	1637.4	1640.0	1651.9	1651.9	1654.6	1657.2
10°	1673.1	1685.0	1689.0	1683.7	1678.4	1675.7	1678.4	1690.3	1689.0	1686.3	1687.6
12.5°	1722.0	1733.9	1743.2	1741.9	1736.6	1733.9	1736.6	1743.2	1735.2	1724.7	1724.7
15°	1782.9	1798.7	1809.3	1809.3	1815.9	1812.0	1808.0	1809.3	1797.4	1788.1	1788.1
17.5°	1860.9	1874.1	1883.4	1891.3	1901.9	1901.9	1892.6	1890.0	1874.1	1866.2	1867.5
20°	1956.1	1966.7	1979.9	1986.5	2007.7	2009.0	1993.2	1986.5	1970.7	1960.1	1962.7
22.5°	2059.3	2077.8	2083.1	2102.9	2128.1	2129.4	2108.2	2093.7	2077.8	2069.9	2071.2
25°	2183.6	2202.1	2198.2	2215.3	2253.7	2257.7	2233.9	2212.7	2199.5	2191.5	2194.2
27.5°	2319.8	2338.3	2337.0	2337.0	2382.0	2399.2	2366.1	2343.6	2346.3	2331.7	2337.0
30°	2465.3	2481.2	2490.4	2474.6	2518.2	2546.0	2493.1	2495.7	2494.4	2485.2	2483.8
32.5°	2635.9	2650.5	2649.2	2638.6	2651.8	2691.5	2649.2	2662.4	2666.4	2667.7	2678.3
35°	2830.4	2847.5	2829.0	2814.5	2815.8	2854.2	2822.4	2843.6	2864.7	2872.7	2872.7
37.5°	3038.0	3047.3	3027.4	3004.9	2999.6	3020.8	3015.5	3049.9	3085.6	3105.5	3116.0
40°	3306.5	3314.4	3276.1	3232.4	3224.5	3248.3	3254.9	3330.3	3384.5	3421.6	3428.2
42.5°	3679.5	3678.1	3623.9	3543.2	3504.9	3541.9	3589.5	3676.8	3768.1	3776.0	3803.8
45°	4159.6	4141.0	4070.9	3950.6	3854.0	3840.8	3897.7	4027.3	4129.1	4172.8	4190.0
47.5°	4707.1	4686.0	4559.0	4372.5	4207.2	4155.6	4203.2	4365.9	4518.0	4581.5	4615.9
50°	5318.2	5293.0	5164.7	4912.1	4637.0	4543.1	4572.2	4774.6	4951.8	5032.5	5093.3
52.5°	5975.5	5971.5	5807.5	5516.5	5148.9	4996.8	4987.5	5230.9	5468.9	5576.1	5609.1
55°	6680.4	6660.6	6513.8	6197.7	5771.8	5487.4	5488.8	5758.6	6049.5	6189.7	6205.6
57.5°	7372.1	7364.2	7201.5	6931.7	6496.6	6122.3	6085.3	6443.7	6737.3	6852.4	6857.7
60°	8025.5	8050.6	7966.0	7718.7	7368.2	6944.9	6890.7	7193.6	7443.6	7542.8	7578.5
62.5°	8752.9	8760.9	8750.3	8567.8	8300.6	8014.9	7881.3	8036.1	8283.4	8365.4	8348.2
65°	9272.7	9324.3	9444.7	9538.6	9481.7	9263.5	9087.6	9095.5	9144.4	9091.5	9087.6
67.5°	8610.1	8722.5	9132.5	9792.5	10570.2	10910.1	10195.9	9398.4	9102.1	8910.3	8909.0
70°	7522.9	7598.3	8110.2	9251.6	10955.1	11455.0	10649.5	9194.7	8614.1	8386.6	8305.9
72.5°	6400.0	6459.6	7023.0	8188.2	10344.0	11133.6	10359.9	8596.9	7832.4	7331.1	7340.4
75°	5330.1	5320.8	5746.7	6943.6	9156.3	10225.0	9592.8	7651.2	6562.7	6106.4	6054.8
77.5°	3695.3	3780.0	4264.0	5487.4	7423.7	8652.4	8559.8	6298.2	5029.8	4543.1	4574.9
80°	1936.3	1989.2	2563.2	3725.8	5431.9	6636.8	6515.1	4454.5	3249.6	2711.3	2609.5
82.5°	806.8	841.2	1171.8	2013.0	3319.7	4130.5	4074.9	2715.3	1812.0	1261.8	1259.1
85°	342.6	343.9	497.3	862.3	1675.7	1962.7	1575.2	1166.5	634.8	398.1	355.8
87.5°	145.5	150.8	202.4	395.5	530.4	428.5	252.6	156.1	104.5	63.5	48.9
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)