

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: P510202

Luminaire Tested: **VERD-M-CA4-220-760-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510202
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-CA4-220-760-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32021 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

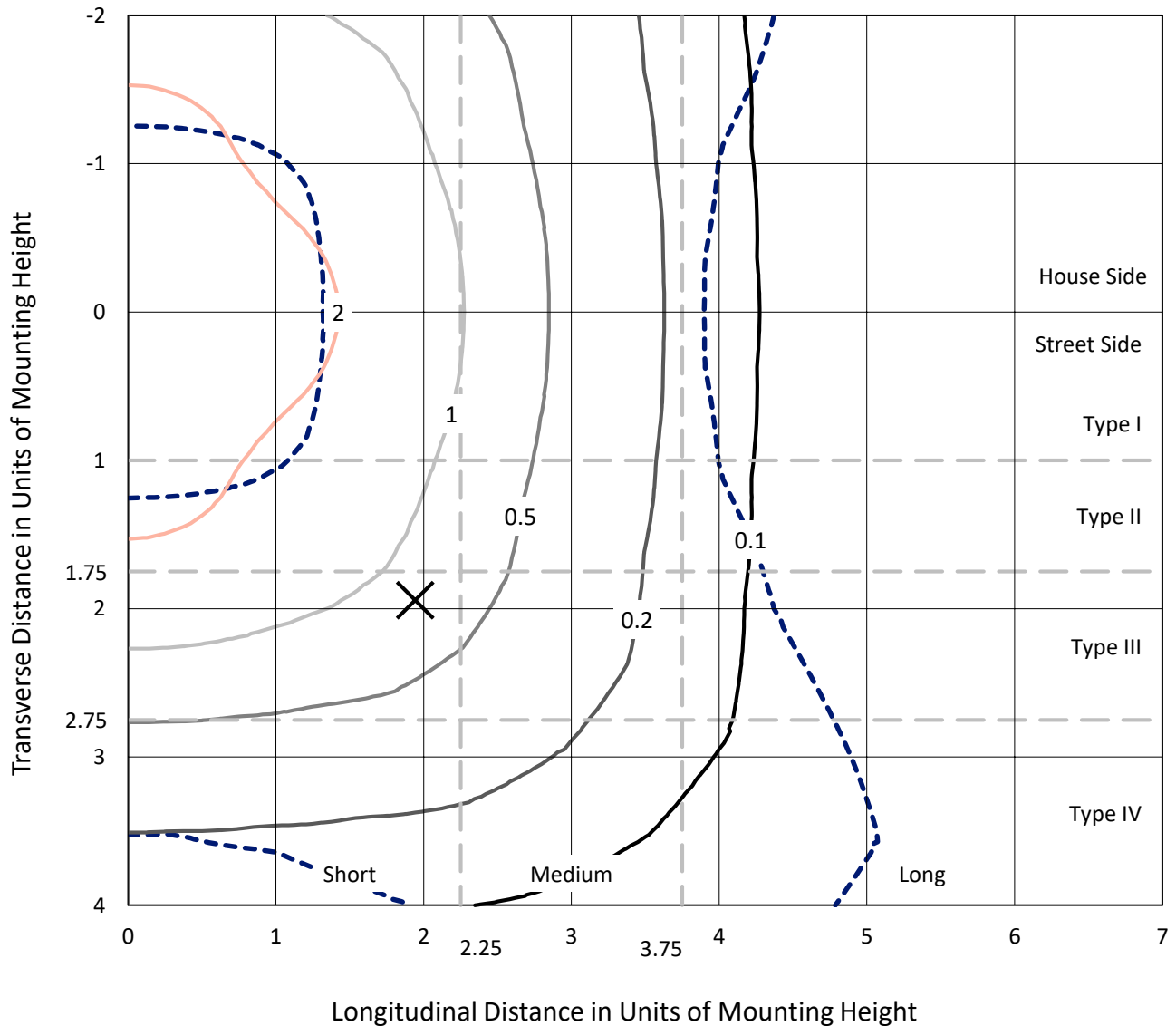
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

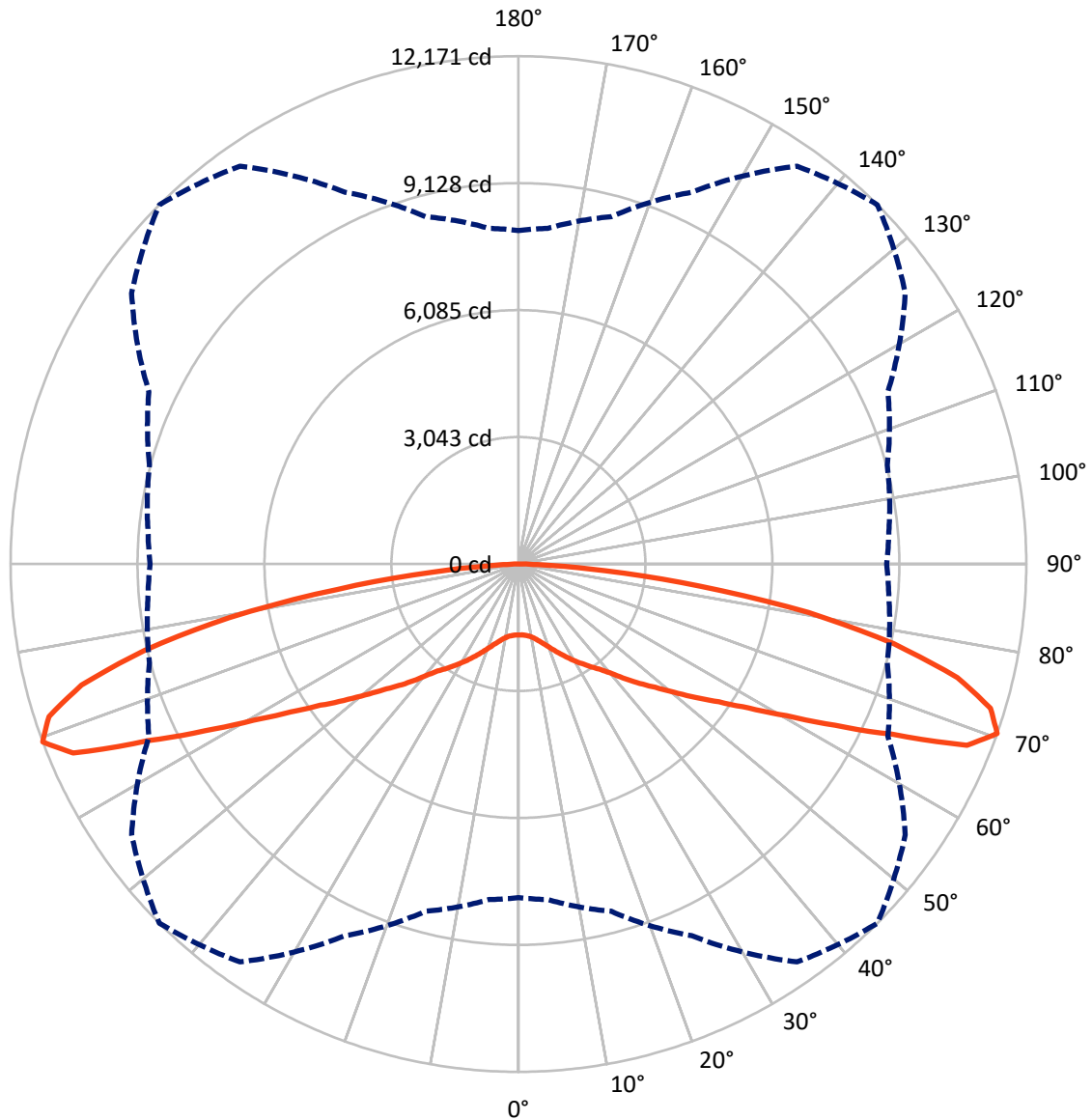
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	16010.5	0.0	16010.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16010.5	0.0	16010.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32021.0	0.0	32021.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	0.5
10°-20°	551.3	1.7
20°-30°	1102.6	3.4
30°-40°	1918.4	6.0
40°-50°	3337.7	10.4
50°-60°	5811.3	18.1
60°-70°	9411.9	29.4
70°-80°	8074.3	25.2
80°-90°	1647.0	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°	32021.0	100.0
0°-180°	32021.0	100.0



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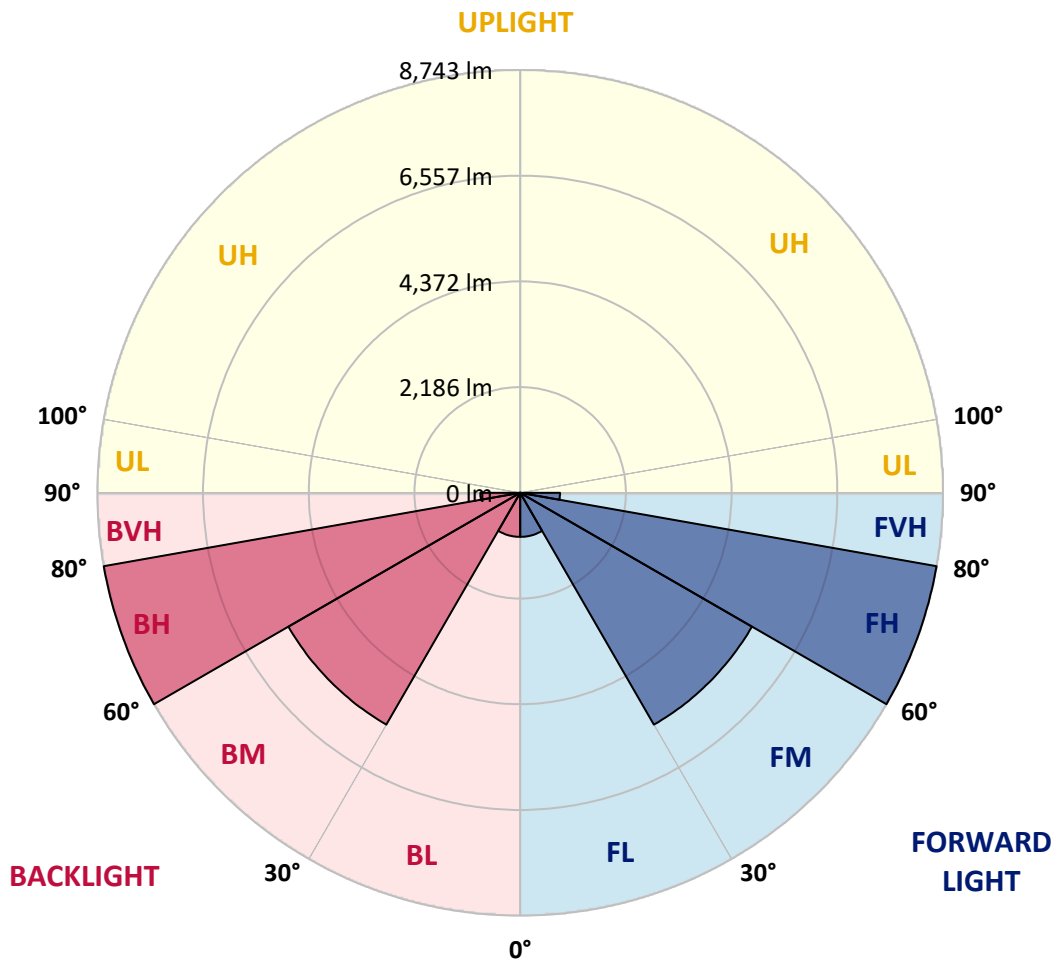
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	910.2	2.8			
FM	(30°-60°)	5533.7	17.3			
FH	(60°-80°)	8743.1	27.3			G4/12000
FVH	(80°-90°)	823.5	2.6			G5
BL	(0°-30°)	910.2	2.8	B2/1000		
BM	(30°-60°)	5533.7	17.3	B4/8500		
BH	(60°-80°)	8743.1	27.3	B5		G4/12000
BVH	(80°-90°)	823.5	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°	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1	1703.1
2.5°	1697.5	1707.4	1705.9	1703.1	1698.9	1698.9	1701.7	1711.6	1713.0	1713.0	1713.0
5°	1717.2	1727.0	1725.6	1722.8	1718.6	1717.2	1720.0	1729.8	1731.2	1731.2	1732.6
7.5°	1739.7	1750.9	1750.9	1749.5	1739.7	1739.7	1742.5	1755.1	1755.1	1757.9	1760.8
10°	1777.6	1790.3	1794.5	1788.9	1783.2	1780.4	1783.2	1795.9	1794.5	1791.7	1793.1
12.5°	1829.6	1842.3	1852.1	1850.7	1845.1	1842.3	1845.1	1852.1	1843.7	1832.4	1832.4
15°	1894.2	1911.1	1922.4	1922.4	1929.4	1925.2	1920.9	1922.4	1909.7	1899.9	1899.9
17.5°	1977.2	1991.2	2001.0	2009.5	2020.7	2020.7	2010.9	2008.1	1991.2	1982.8	1984.2
20°	2078.3	2089.6	2103.6	2110.7	2133.1	2134.5	2117.7	2110.7	2093.8	2082.6	2085.4
22.5°	2187.9	2207.6	2213.2	2234.3	2261.0	2262.4	2239.9	2224.5	2207.6	2199.2	2200.6
25°	2320.0	2339.7	2335.5	2353.8	2394.5	2398.7	2373.4	2350.9	2336.9	2328.5	2331.3
27.5°	2464.8	2484.4	2483.0	2483.0	2530.8	2549.1	2514.0	2490.1	2492.9	2477.4	2483.0
30°	2619.3	2636.2	2646.0	2629.2	2675.6	2705.1	2648.9	2651.7	2650.3	2640.4	2639.0
32.5°	2800.6	2816.1	2814.7	2803.4	2817.5	2859.6	2814.7	2828.7	2832.9	2834.3	2845.6
35°	3007.2	3025.5	3005.8	2990.3	2991.7	3032.5	2998.8	3021.2	3043.7	3052.2	3052.2
37.5°	3227.8	3237.6	3216.6	3192.7	3187.1	3209.5	3203.9	3240.5	3278.4	3299.5	3310.7
40°	3513.1	3521.5	3480.8	3434.4	3426.0	3451.2	3458.3	3538.4	3596.0	3635.3	3642.4
42.5°	3909.3	3907.9	3850.3	3764.6	3723.9	3763.2	3813.8	3906.5	4003.5	4011.9	4041.4
45°	4419.4	4399.8	4325.3	4197.4	4094.8	4080.8	4141.2	4278.9	4387.1	4433.5	4451.8
47.5°	5001.2	4978.7	4843.8	4645.7	4470.0	4415.2	4465.8	4638.7	4800.3	4867.7	4904.3
50°	5650.4	5623.7	5487.4	5219.0	4926.7	4827.0	4857.9	5072.9	5261.2	5346.9	5411.5
52.5°	6348.8	6344.6	6170.4	5861.2	5470.6	5309.0	5299.1	5557.7	5810.6	5924.4	5959.6
55°	7097.8	7076.7	6920.8	6584.9	6132.4	5830.3	5831.7	6118.4	6427.5	6576.5	6593.3
57.5°	7832.8	7824.3	7651.5	7364.8	6902.5	6504.8	6465.5	6846.3	7158.2	7280.5	7286.1
60°	8526.9	8553.6	8463.7	8200.9	7828.5	7378.9	7321.2	7643.0	7908.6	8014.0	8052.0
62.5°	9299.8	9308.2	9297.0	9103.1	8819.2	8515.7	8373.8	8538.2	8801.0	8888.1	8869.8
65°	9852.1	9906.9	10034.7	10134.5	10074.1	9842.2	9655.3	9663.8	9715.8	9659.5	9655.3
67.5°	9148.0	9267.5	9703.1	10404.3	11230.6	11591.7	10832.9	9985.6	9670.8	9467.0	9465.6
70°	7992.9	8073.0	8616.9	9829.6	11639.5	12170.7	11314.9	9769.2	9152.3	8910.6	8824.8
72.5°	6799.9	6863.1	7461.8	8699.8	10990.3	11829.2	11007.2	9134.0	8321.8	7789.2	7799.0
75°	5663.1	5653.2	6105.7	7377.5	9728.4	10863.8	10192.1	8129.3	6972.8	6487.9	6433.1
77.5°	3926.2	4016.1	4530.5	5830.3	7887.6	9193.0	9094.6	6691.7	5344.1	4827.0	4860.7
80°	2057.3	2113.5	2723.3	3958.5	5771.3	7051.4	6922.2	4732.8	3452.6	2880.7	2772.5
82.5°	857.2	893.7	1245.0	2138.8	3527.1	4388.5	4329.5	2884.9	1925.2	1340.6	1337.8
85°	364.0	365.4	528.4	916.2	1780.4	2085.4	1673.6	1239.4	674.5	423.0	378.0
87.5°	154.6	160.2	215.0	420.2	563.5	455.3	268.4	165.8	111.0	67.5	52.0
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)