

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: P510226

Luminaire Tested: **VERD-M-CA4-230-730-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510226
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-CA4-230-730-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32765 lumens
Efficiency: N/A
Efficacy: 140.4 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

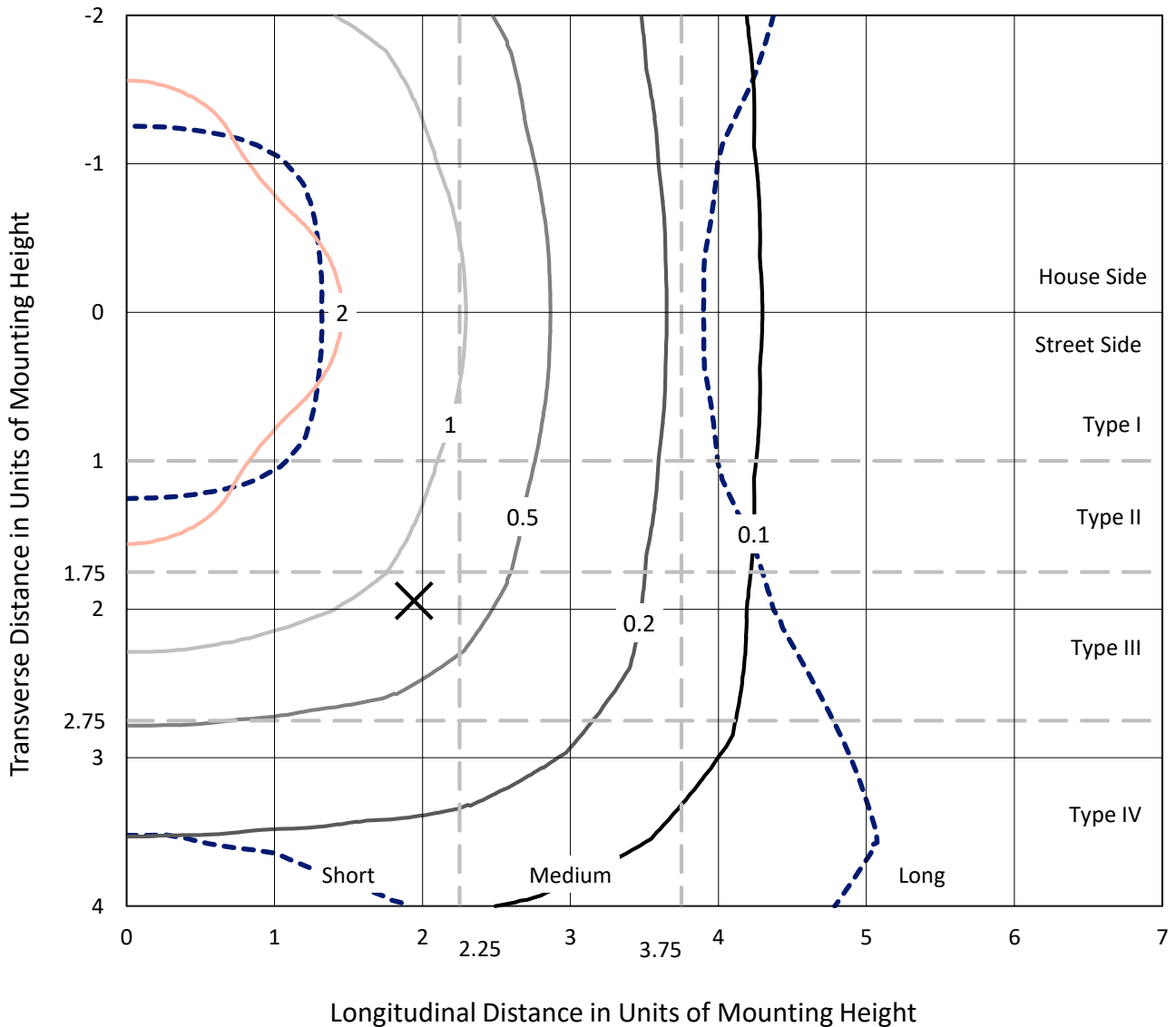
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

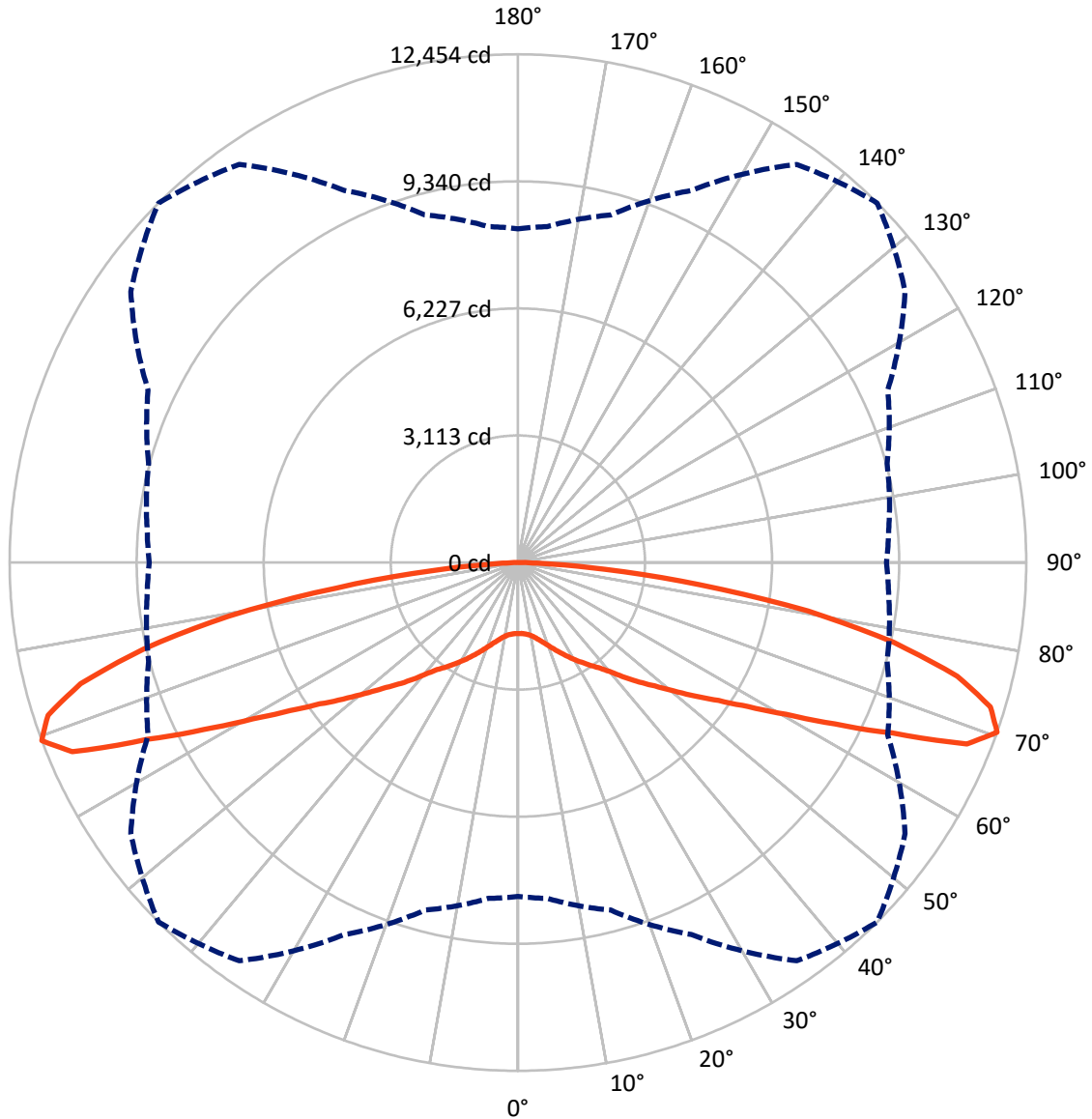
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	16382.5	0.0	16382.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16382.5	0.0	16382.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32765.0	0.0	32765.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	0.5
10°-20°	564.1	1.7
20°-30°	1128.2	3.4
30°-40°	1963.0	6.0
40°-50°	3415.2	10.4
50°-60°	5946.3	18.1
60°-70°	9630.5	29.4
70°-80°	8261.9	25.2
80°-90°	1685.2	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°	32765.0	100.0
0°-180°	32765.0	100.0



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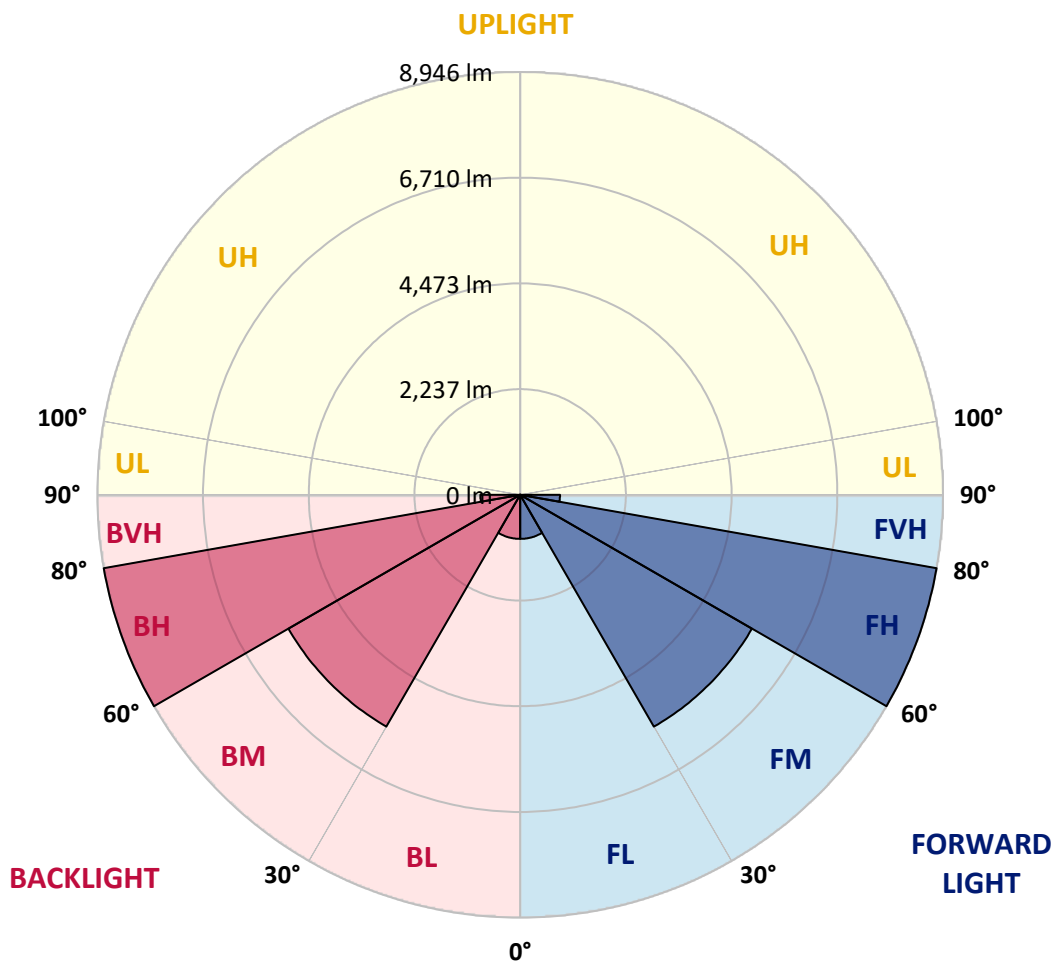
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.4	2.8			
FM	(30°-60°)	5662.3	17.3			
FH	(60°-80°)	8946.2	27.3			G4/12000
FVH	(80°-90°)	842.6	2.6			G5
BL	(0°-30°)	931.4	2.8	B2/1000		
BM	(30°-60°)	5662.3	17.3	B4/8500		
BH	(60°-80°)	8946.2	27.3	B5		G4/12000
BVH	(80°-90°)	842.6	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°	1742.7	1742.7	1742.7	1742.7	1742.7	1742.7	1742.7	1742.7	1742.7	1742.7	1742.7
2.5°	1737.0	1747.0	1745.6	1742.7	1738.4	1738.4	1741.3	1751.3	1752.8	1752.8	1752.8
5°	1757.1	1767.2	1765.7	1762.8	1758.5	1757.1	1760.0	1770.0	1771.5	1771.5	1772.9
7.5°	1780.1	1791.6	1791.6	1790.2	1780.1	1780.1	1783.0	1795.9	1795.9	1798.8	1801.7
10°	1818.9	1831.9	1836.2	1830.4	1824.7	1821.8	1824.7	1837.6	1836.2	1833.3	1834.7
12.5°	1872.1	1885.1	1895.1	1893.7	1887.9	1885.1	1887.9	1895.1	1886.5	1875.0	1875.0
15°	1938.3	1955.5	1967.0	1967.0	1974.2	1969.9	1965.6	1967.0	1954.1	1944.0	1944.0
17.5°	2023.1	2037.5	2047.5	2056.2	2067.7	2067.7	2057.6	2054.7	2037.5	2028.8	2030.3
20°	2126.6	2138.1	2152.5	2159.7	2182.7	2184.1	2166.9	2159.7	2142.4	2130.9	2133.8
22.5°	2238.8	2258.9	2264.7	2286.2	2313.5	2315.0	2292.0	2276.2	2258.9	2250.3	2251.7
25°	2373.9	2394.1	2389.8	2408.4	2450.1	2454.5	2428.6	2405.6	2391.2	2382.6	2385.4
27.5°	2522.0	2542.2	2540.7	2540.7	2589.6	2608.3	2572.4	2547.9	2550.8	2535.0	2540.7
30°	2680.2	2697.5	2707.5	2690.3	2737.7	2767.9	2710.4	2713.3	2711.8	2701.8	2700.3
32.5°	2865.7	2881.5	2880.1	2868.6	2882.9	2926.1	2880.1	2894.5	2898.8	2900.2	2911.7
35°	3077.1	3095.8	3075.6	3059.8	3061.2	3102.9	3068.4	3091.4	3114.4	3123.1	3123.1
37.5°	3302.8	3312.9	3291.3	3266.9	3261.1	3284.1	3278.4	3315.8	3354.6	3376.1	3387.6
40°	3594.7	3603.3	3561.6	3514.2	3505.6	3531.4	3538.6	3620.6	3679.5	3719.8	3727.0
42.5°	4000.2	3998.7	3939.8	3852.1	3810.4	3850.6	3902.4	3997.3	4096.5	4105.1	4135.3
45°	4522.1	4502.0	4425.8	4294.9	4190.0	4175.6	4237.4	4378.3	4489.1	4536.5	4555.2
47.5°	5117.4	5094.4	4956.4	4753.6	4573.9	4517.8	4569.6	4746.4	4911.8	4980.8	5018.2
50°	5781.7	5754.4	5614.9	5340.3	5041.2	4939.1	4970.8	5190.7	5383.4	5471.1	5537.3
52.5°	6496.3	6492.0	6313.7	5997.4	5597.7	5432.3	5422.2	5686.8	5945.6	6062.1	6098.0
55°	7262.7	7241.2	7081.6	6737.9	6274.9	5965.8	5967.2	6260.5	6576.9	6729.3	6746.5
57.5°	8014.7	8006.1	7829.3	7535.9	7062.9	6655.9	6615.7	7005.4	7324.6	7449.7	7455.4
60°	8725.1	8752.4	8660.4	8391.5	8010.4	7550.3	7491.4	7820.6	8092.4	8200.2	8239.1
62.5°	9515.9	9524.5	9513.0	9314.6	9024.1	8713.6	8568.3	8736.6	9005.4	9094.6	9075.9
65°	10081.0	10137.1	10267.9	10370.0	10308.2	10070.9	9879.7	9888.3	9941.5	9884.0	9879.7
67.5°	9360.6	9482.8	9928.6	10646.1	11491.5	11861.1	11084.6	10217.6	9895.5	9687.0	9685.6
70°	8178.7	8260.6	8817.1	10058.0	11910.0	12453.5	11577.8	9996.1	9364.9	9117.6	9029.9
72.5°	6957.9	7022.6	7635.1	8901.9	11245.7	12104.1	11262.9	9346.2	8515.1	7970.2	7980.2
75°	5794.7	5784.6	6247.6	7548.9	9954.4	11116.2	10428.9	8318.1	7134.8	6638.7	6582.6
77.5°	4017.4	4109.5	4635.7	5965.8	8070.8	9406.6	9306.0	6847.2	5468.3	4939.1	4973.6
80°	2105.1	2162.6	2786.6	4050.5	5905.4	7215.3	7083.0	4842.8	3532.9	2947.7	2836.9
82.5°	877.1	914.5	1274.0	2188.5	3609.1	4490.5	4430.1	2952.0	1969.9	1371.7	1368.9
85°	372.4	373.8	540.6	937.5	1821.8	2133.8	1712.5	1268.2	690.2	432.8	386.8
87.5°	158.2	163.9	220.0	429.9	576.6	465.9	274.6	169.7	113.6	69.0	53.2
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)