

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: P510339

Luminaire Tested: **VERD-M-CA4-250-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-760-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36554 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

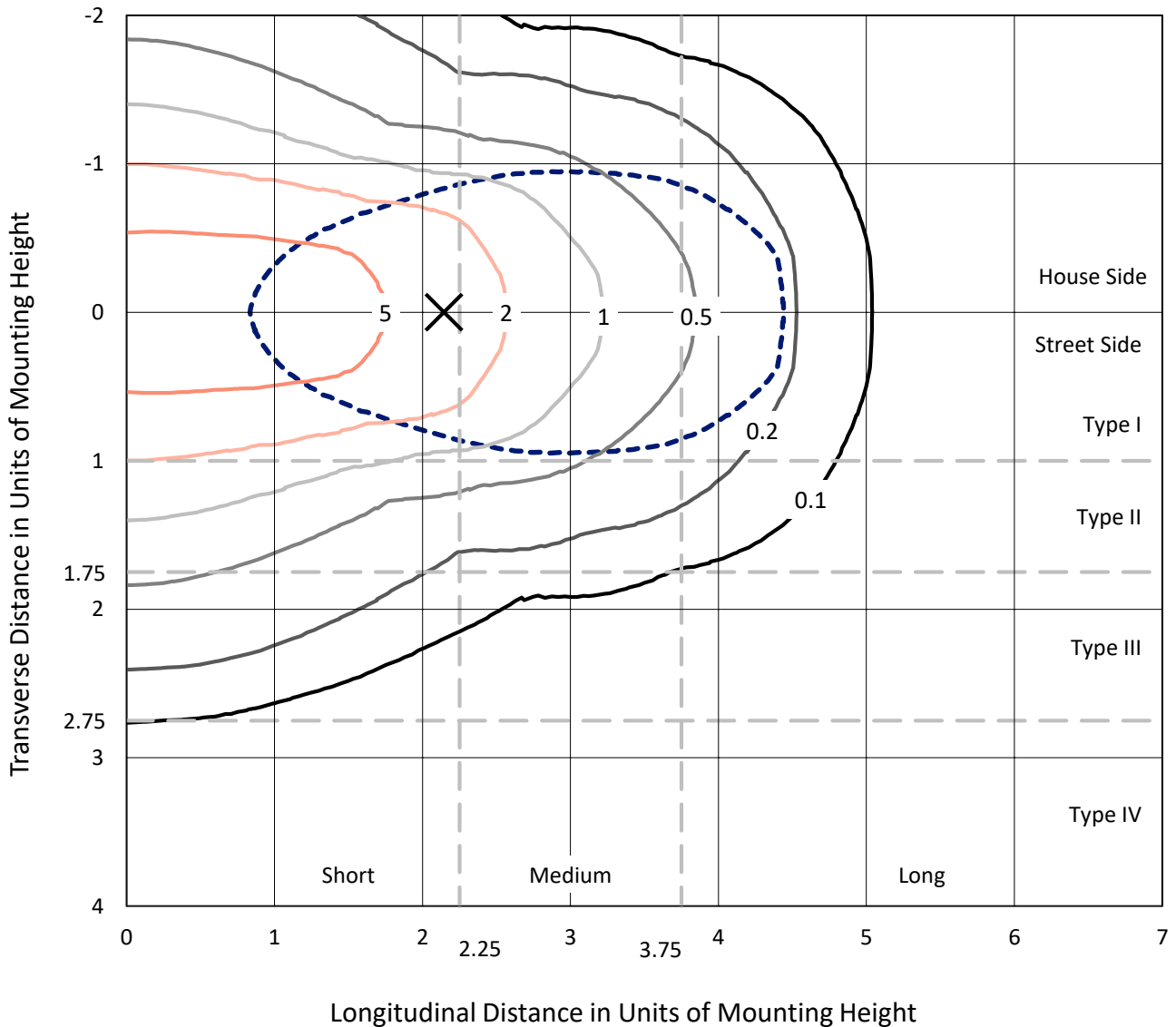
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

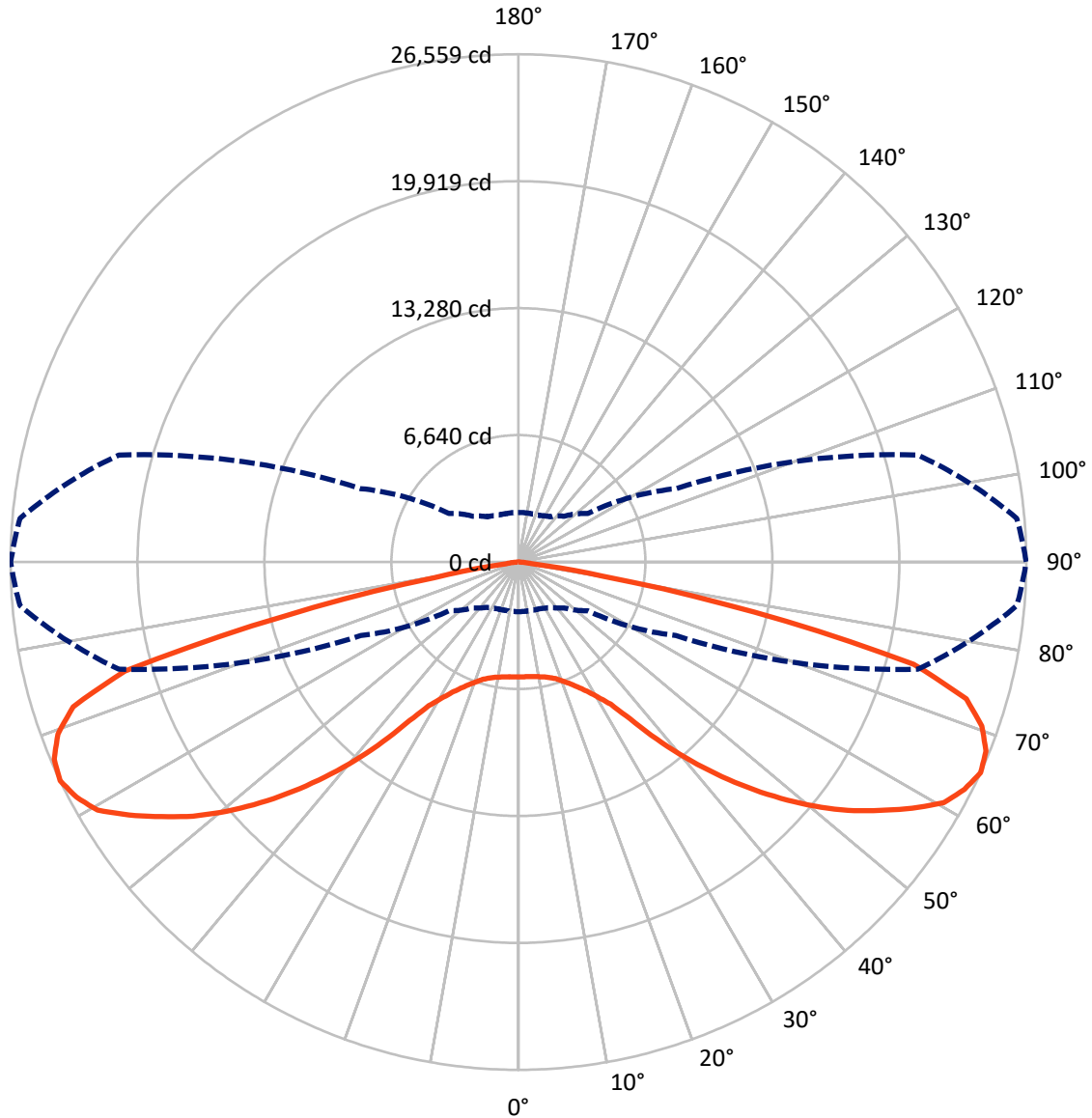
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18277.0	0.0	18277.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18277.0	0.0	18277.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36554.0	0.0	36554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.3	1.6
10°-20°	1699.5	4.6
20°-30°	2805.8	7.7
30°-40°	4111.2	11.2
40°-50°	5997.0	16.4
50°-60°	7764.1	21.2
60°-70°	8180.0	22.4
70°-80°	4992.5	13.7
80°-90°	431.6	1.2
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°	36554.0	100.0
0°-180°	36554.0	100.0



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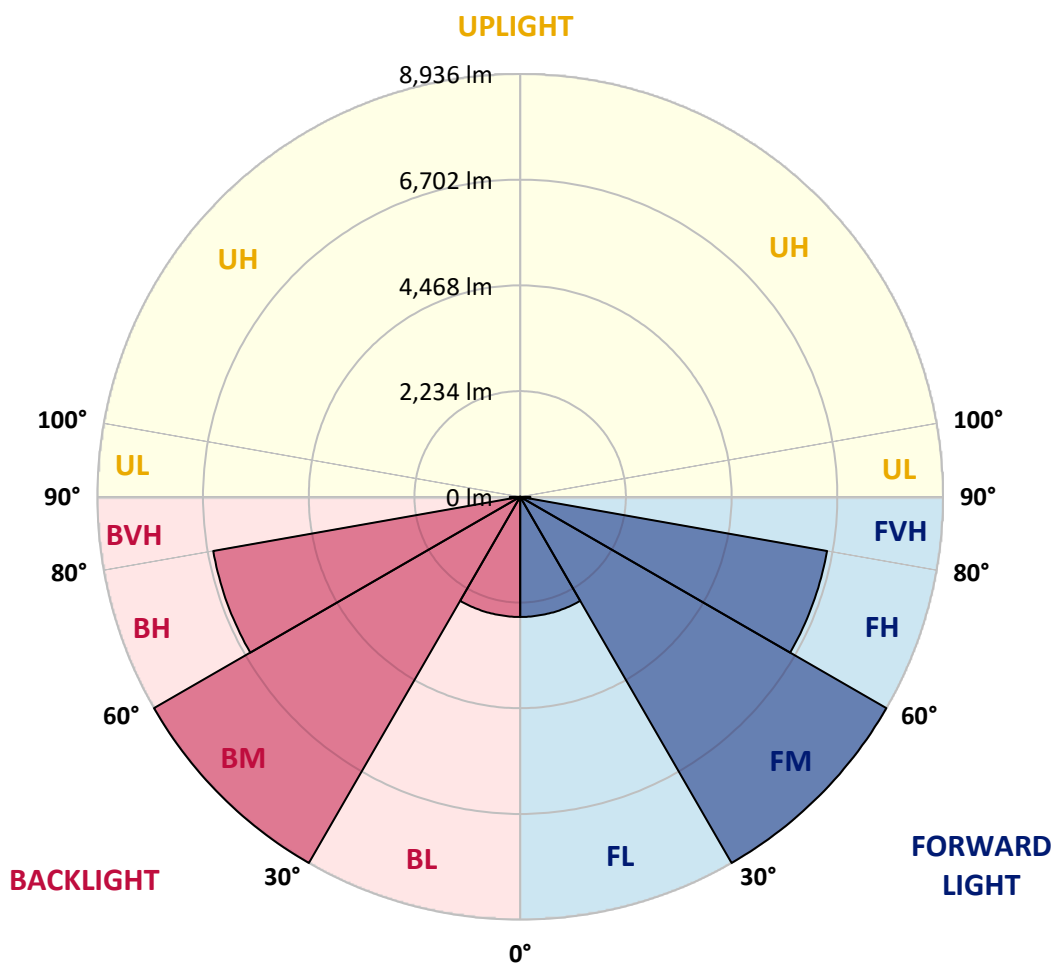
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2538.8	6.9			
FM	(30°-60°)	8936.1	24.4			
FH	(60°-80°)	6586.3	18.0			G3/7500
FVH	(80°-90°)	215.8	0.6			G2/225
BL	(0°-30°)	2538.8	6.9	B4/5000		
BM	(30°-60°)	8936.1	24.4	B5		
BH	(60°-80°)	6586.3	18.0	B5		G5
BVH	(80°-90°)	215.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6014.0	6014.0	6014.0	6014.0	6014.0	6014.0	6014.0	6014.0	6014.0	6014.0	6014.0
2.5°	5964.1	6012.4	6020.2	5999.9	6001.5	5998.4	6010.8	6015.5	6021.7	6012.4	6007.7
5°	5954.8	5996.8	6004.6	5995.3	6007.7	6004.6	6010.8	6021.7	6020.2	6017.1	6017.1
7.5°	5905.0	5936.1	5961.0	5954.8	5957.9	5978.1	5999.9	6035.7	6052.9	6052.9	6049.8
10°	5839.6	5872.3	5914.3	5905.0	5925.2	5967.3	6010.8	6048.2	6091.8	6101.1	6101.1
12.5°	5769.5	5814.7	5855.2	5864.5	5911.2	5959.5	6038.9	6096.5	6146.3	6168.1	6166.5
15°	5676.1	5715.0	5763.3	5797.6	5872.3	5976.6	6080.9	6169.6	6241.2	6270.8	6275.5
17.5°	5551.6	5593.6	5645.0	5716.6	5847.4	5996.8	6158.7	6278.6	6387.6	6418.7	6418.7
20°	5388.1	5433.3	5495.5	5606.1	5783.5	6017.1	6233.5	6421.8	6563.5	6636.7	6647.6
22.5°	5134.4	5184.2	5285.4	5476.9	5710.4	6014.0	6322.2	6590.0	6803.3	6898.2	6909.1
25°	4852.6	4916.4	5059.6	5311.8	5620.1	6010.8	6410.9	6779.9	7064.8	7211.1	7242.3
27.5°	4603.5	4664.2	4840.1	5151.5	5536.0	6017.1	6499.7	6997.9	7408.9	7619.0	7645.5
30°	4359.1	4413.6	4609.7	4980.2	5458.2	6024.9	6613.3	7248.5	7799.6	8120.3	8184.1
32.5°	4158.2	4212.7	4402.7	4798.1	5363.2	6042.0	6758.1	7583.2	8342.9	8822.4	8862.9
35°	3982.3	4044.6	4211.2	4614.4	5237.1	6066.9	6940.3	8022.2	9121.3	10005.6	10052.3
37.5°	3829.8	3879.6	4027.5	4419.8	5104.8	6071.6	7152.0	8537.5	10127.0	11433.2	11752.4
40°	3728.6	3762.8	3876.5	4240.7	4930.4	6032.6	7394.8	9113.6	11247.9	13091.2	13455.5
42.5°	3636.7	3667.8	3758.1	4075.7	4748.3	5957.9	7620.6	9705.1	12370.4	14785.0	15129.1
45°	3526.2	3551.1	3642.9	3935.6	4570.8	5842.7	7807.4	10253.1	13531.8	16486.6	16810.4
47.5°	3435.9	3454.6	3532.4	3809.5	4373.1	5657.4	7886.8	10749.8	14777.2	18060.5	18462.2
50°	3373.6	3367.4	3435.9	3678.7	4170.7	5399.0	7819.9	11117.2	16089.6	19636.0	20068.8
52.5°	3266.2	3272.4	3337.8	3543.3	4002.6	5079.9	7558.3	11375.6	17409.8	21074.5	21586.7
55°	3155.7	3165.0	3216.4	3401.6	3825.1	4776.3	7074.1	11411.4	18790.7	22578.4	22927.1
57.5°	3037.3	3042.0	3085.6	3249.1	3627.4	4461.8	6463.9	11184.1	20071.9	23957.7	24287.8
60°	2933.0	2934.6	2964.2	3090.3	3407.9	4122.4	5754.0	10728.0	21104.1	25016.4	25553.5
62.5°	2792.9	2792.9	2811.6	2917.5	3183.7	3772.1	5072.1	10021.2	21667.7	25788.5	26179.3
65°	2592.1	2595.2	2613.9	2682.4	2889.4	3390.7	4432.2	9087.1	21633.4	26166.9	26559.2
67.5°	2207.6	2199.8	2311.9	2424.0	2585.9	3004.6	3804.8	8170.1	20848.8	26004.9	26372.3
70°	1598.8	1587.9	1653.3	1812.1	2202.9	2509.6	3233.5	7404.2	18594.5	25399.3	25704.5
72.5°	1312.4	1318.6	1321.7	1301.5	1474.3	2031.6	2701.1	6512.1	15342.4	23542.1	24491.7
75°	1038.4	1022.8	1039.9	1055.5	1102.2	1191.0	2185.8	5422.4	12451.4	19740.3	21342.3
77.5°	655.4	646.1	644.5	653.9	714.6	755.1	1338.9	3974.5	8663.6	12487.2	12593.0
80°	456.1	454.6	456.1	468.6	488.8	498.2	742.6	2178.0	4362.2	4547.4	4466.5
82.5°	323.8	312.9	303.6	326.9	316.0	306.7	446.8	997.9	1176.9	801.8	650.7
85°	160.4	163.5	138.6	175.9	165.0	160.4	174.4	189.9	175.9	328.5	372.1
87.5°	45.1	43.6	48.3	56.0	54.5	62.3	56.0	60.7	71.6	124.5	123.0
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)