

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: P510067

Luminaire Tested: **VERD-M-CA4-200-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510067
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-CA4-200-727-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 910mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25846 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

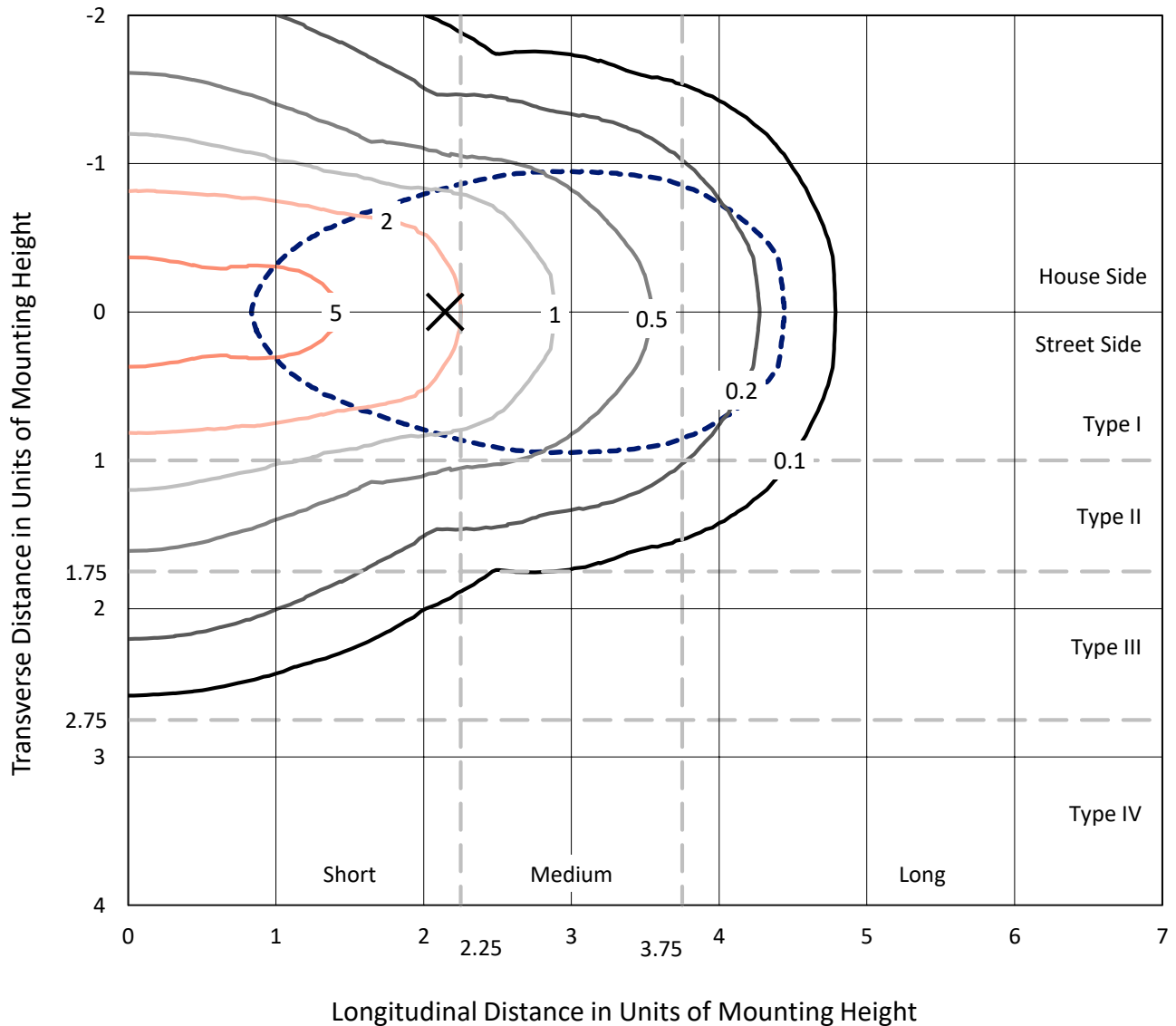
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

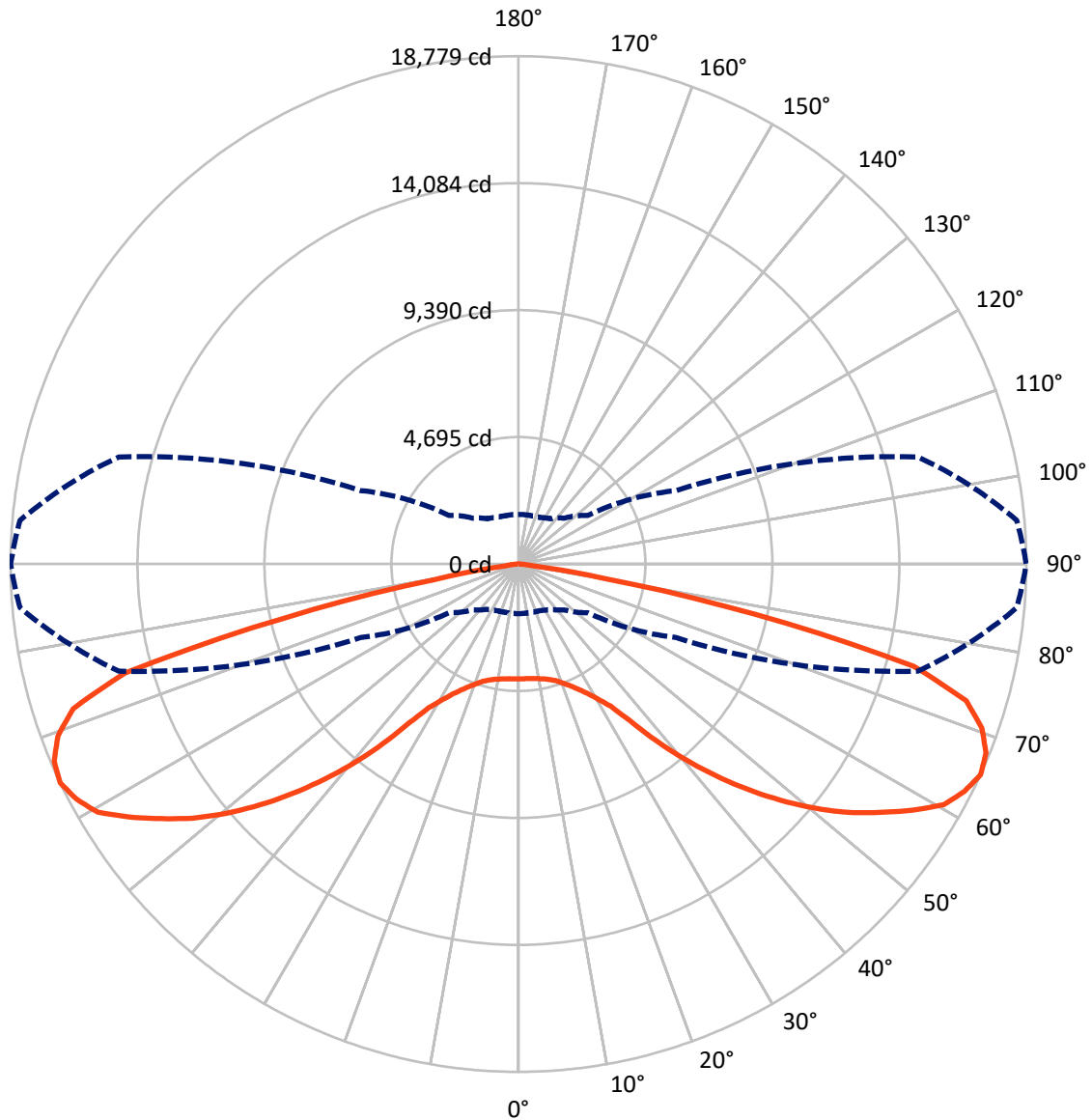
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	12923.0	0.0	12923.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12923.0	0.0	12923.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25846.0	0.0	25846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	1.6
10°-20°	1201.6	4.6
20°-30°	1983.9	7.7
30°-40°	2906.9	11.2
40°-50°	4240.2	16.4
50°-60°	5489.7	21.2
60°-70°	5783.8	22.4
70°-80°	3530.0	13.7
80°-90°	305.2	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°	25846.0	100.0
0°-180°	25846.0	100.0



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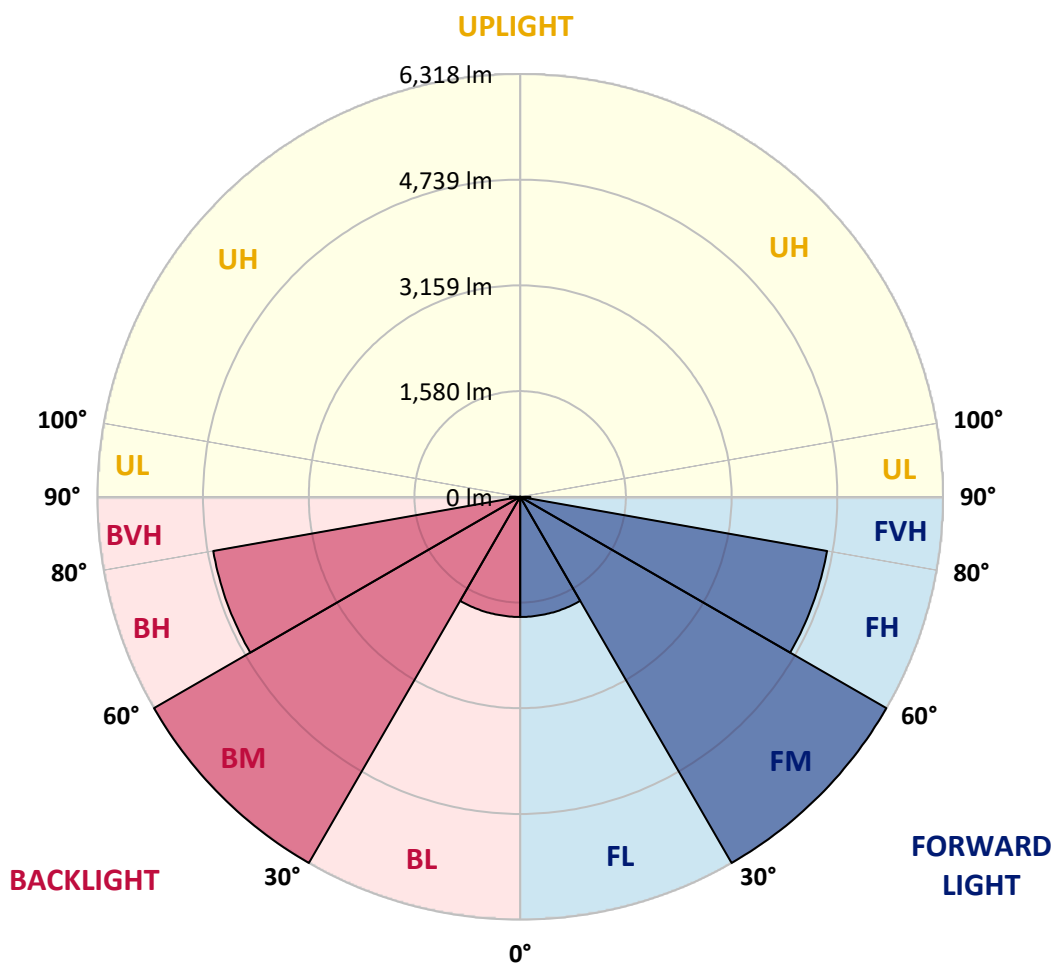
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1795.1	6.9			
FM	(30°-60°)	6318.4	24.4			
FH	(60°-80°)	4656.9	18.0			G2/5000
FVH	(80°-90°)	152.6	0.6			G2/225
BL	(0°-30°)	1795.1	6.9	B3/2500		
BM	(30°-60°)	6318.4	24.4	B4/8500		
BH	(60°-80°)	4656.9	18.0	B4/5000		G4/5000
BVH	(80°-90°)	152.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4252.2	4252.2	4252.2	4252.2	4252.2	4252.2	4252.2	4252.2	4252.2	4252.2	4252.2
2.5°	4217.0	4251.1	4256.7	4242.3	4243.4	4241.2	4250.0	4253.3	4257.8	4251.1	4247.8
5°	4210.4	4240.1	4245.6	4239.0	4247.8	4245.6	4250.0	4257.8	4256.7	4254.4	4254.4
7.5°	4175.2	4197.2	4214.8	4210.4	4212.6	4226.9	4242.3	4267.7	4279.8	4279.8	4277.6
10°	4129.0	4152.1	4181.8	4175.2	4189.5	4219.2	4250.0	4276.5	4307.3	4313.9	4313.9
12.5°	4079.4	4111.4	4140.0	4146.6	4179.6	4213.7	4269.9	4310.6	4345.8	4361.2	4360.1
15°	4013.4	4040.9	4075.0	4099.2	4152.1	4225.8	4299.6	4362.3	4413.0	4433.9	4437.2
17.5°	3925.3	3955.0	3991.4	4042.0	4134.5	4240.1	4354.6	4439.4	4516.4	4538.4	4538.4
20°	3809.7	3841.7	3885.7	3963.8	4089.3	4254.4	4407.5	4540.6	4640.8	4692.6	4700.3
22.5°	3630.3	3665.5	3737.1	3872.5	4037.6	4252.2	4470.2	4659.5	4810.3	4877.5	4885.2
25°	3431.1	3476.2	3577.5	3755.8	3973.8	4250.0	4532.9	4793.8	4995.3	5098.7	5120.7
27.5°	3255.0	3297.9	3422.3	3642.4	3914.3	4254.4	4595.7	4947.9	5238.5	5387.1	5405.8
30°	3082.1	3120.7	3259.4	3521.3	3859.3	4260.0	4676.0	5125.2	5514.8	5741.6	5786.7
32.5°	2940.1	2978.7	3113.0	3392.6	3792.1	4272.1	4778.4	5361.8	5899.0	6238.0	6266.6
35°	2815.8	2859.8	2977.6	3262.7	3703.0	4289.7	4907.2	5672.2	6449.4	7074.6	7107.6
37.5°	2707.9	2743.1	2847.7	3125.1	3609.4	4293.0	5056.9	6036.6	7160.5	8084.0	8309.7
40°	2636.3	2660.5	2740.9	2998.5	3486.1	4265.5	5228.6	6443.9	7953.0	9256.3	9513.9
42.5°	2571.4	2593.4	2657.2	2881.8	3357.3	4212.6	5388.2	6862.2	8746.7	10453.9	10697.2
45°	2493.2	2510.8	2575.8	2782.7	3231.8	4131.2	5520.3	7249.6	9567.8	11657.1	11886.0
47.5°	2429.4	2442.6	2497.6	2693.6	3092.0	4000.2	5576.5	7600.8	10448.4	12770.0	13053.9
50°	2385.4	2381.0	2429.4	2601.1	2948.9	3817.4	5529.1	7860.5	11376.4	13883.9	14189.9
52.5°	2309.4	2313.8	2360.0	2505.3	2830.1	3591.8	5344.2	8043.3	12309.8	14901.0	15263.2
55°	2231.2	2237.9	2274.2	2405.2	2704.6	3377.1	5001.9	8068.6	13286.2	15964.4	16210.9
57.5°	2147.6	2150.9	2181.7	2297.3	2564.8	3154.8	4570.4	7907.9	14192.1	16939.6	17173.0
60°	2073.8	2074.9	2095.9	2185.0	2409.6	2914.8	4068.4	7585.4	14921.9	17688.2	18067.9
62.5°	1974.8	1974.8	1988.0	2062.8	2251.1	2667.1	3586.3	7085.6	15320.4	18234.1	18510.4
65°	1832.8	1835.0	1848.2	1896.6	2043.0	2397.5	3133.9	6425.2	15296.2	18501.6	18779.0
67.5°	1560.9	1555.4	1634.6	1713.9	1828.4	2124.5	2690.3	5776.8	14741.4	18387.1	18646.9
70°	1130.5	1122.8	1169.0	1281.3	1557.6	1774.4	2286.3	5235.2	13147.5	17958.9	18174.7
72.5°	927.9	932.3	934.5	920.2	1042.4	1436.5	1909.8	4604.5	10848.0	16645.7	17317.2
75°	734.2	723.2	735.3	746.3	779.3	842.1	1545.5	3834.0	8803.9	13957.7	15090.4
77.5°	463.4	456.8	455.7	462.3	505.3	533.9	946.7	2810.2	6125.7	8829.2	8904.1
80°	322.5	321.4	322.5	331.3	345.6	352.2	525.1	1540.0	3084.3	3215.3	3158.1
82.5°	229.0	221.3	214.6	231.2	223.5	216.9	315.9	705.6	832.2	566.9	460.1
85°	113.4	115.6	98.0	124.4	116.7	113.4	123.3	134.3	124.4	232.3	263.1
87.5°	31.9	30.8	34.1	39.6	38.5	44.0	39.6	42.9	50.6	88.1	87.0
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)