

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: P510227

Luminaire Tested: **VERD-M-CA4-230-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510227
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-CA4-230-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34384 lumens
Efficiency: N/A
Efficacy: 147.4 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

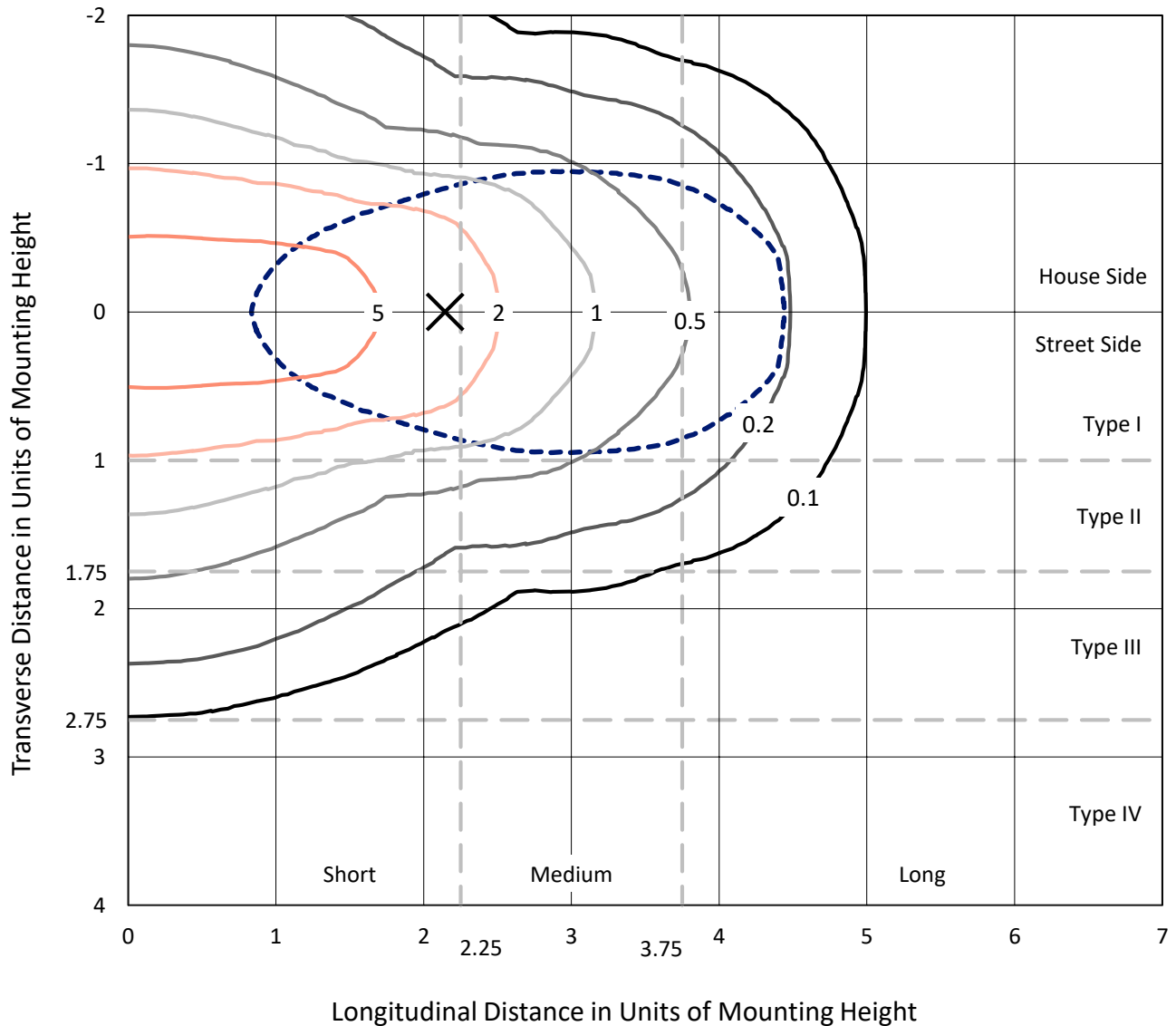
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

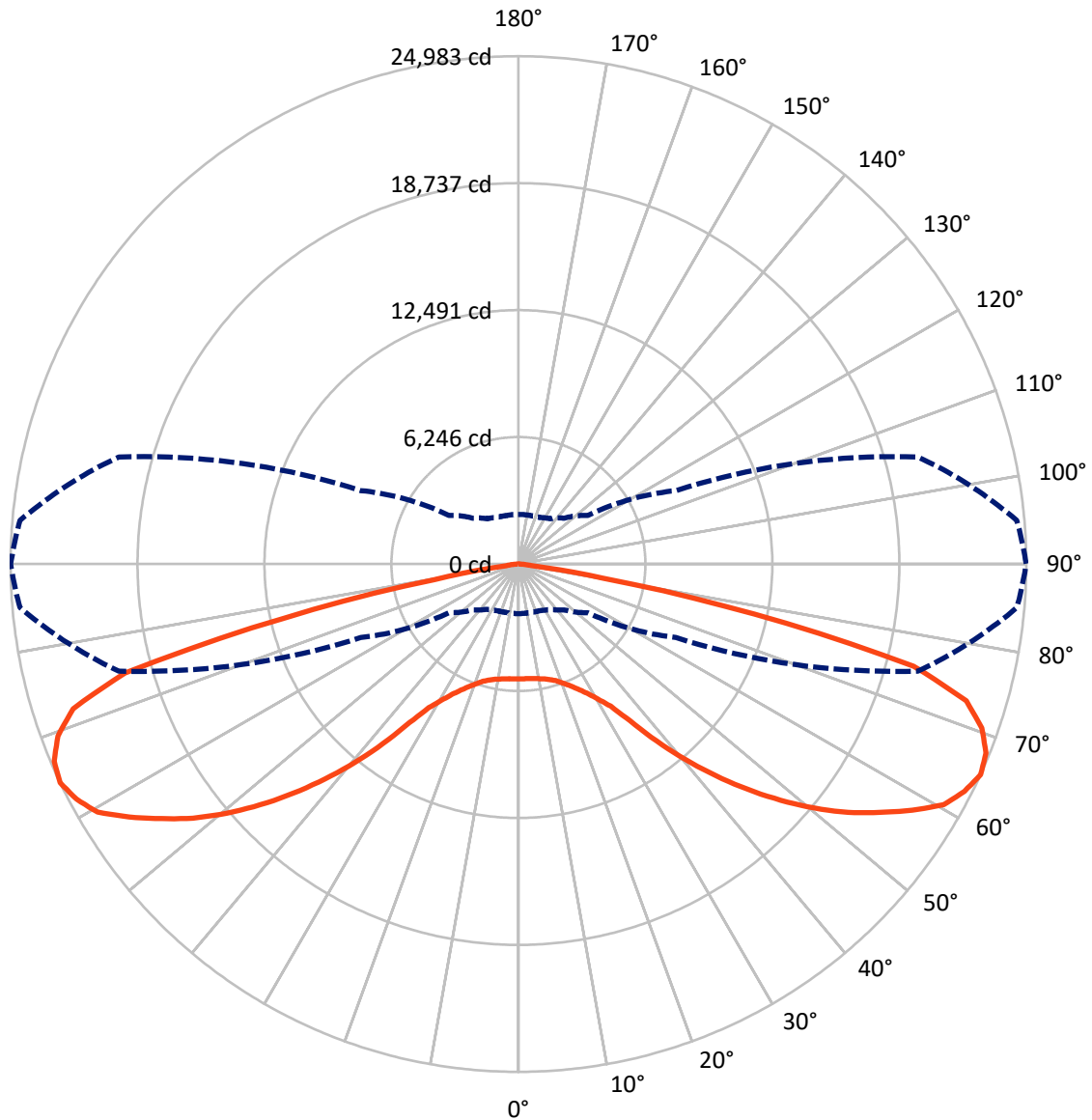
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	17192.0	0.0	17192.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17192.0	0.0	17192.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34384.0	0.0	34384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.4	1.6
10°-20°	1598.6	4.6
20°-30°	2639.2	7.7
30°-40°	3867.2	11.2
40°-50°	5641.0	16.4
50°-60°	7303.2	21.2
60°-70°	7694.4	22.4
70°-80°	4696.2	13.7
80°-90°	406.0	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°	34384.0	100.0
0°-180°	34384.0	100.0



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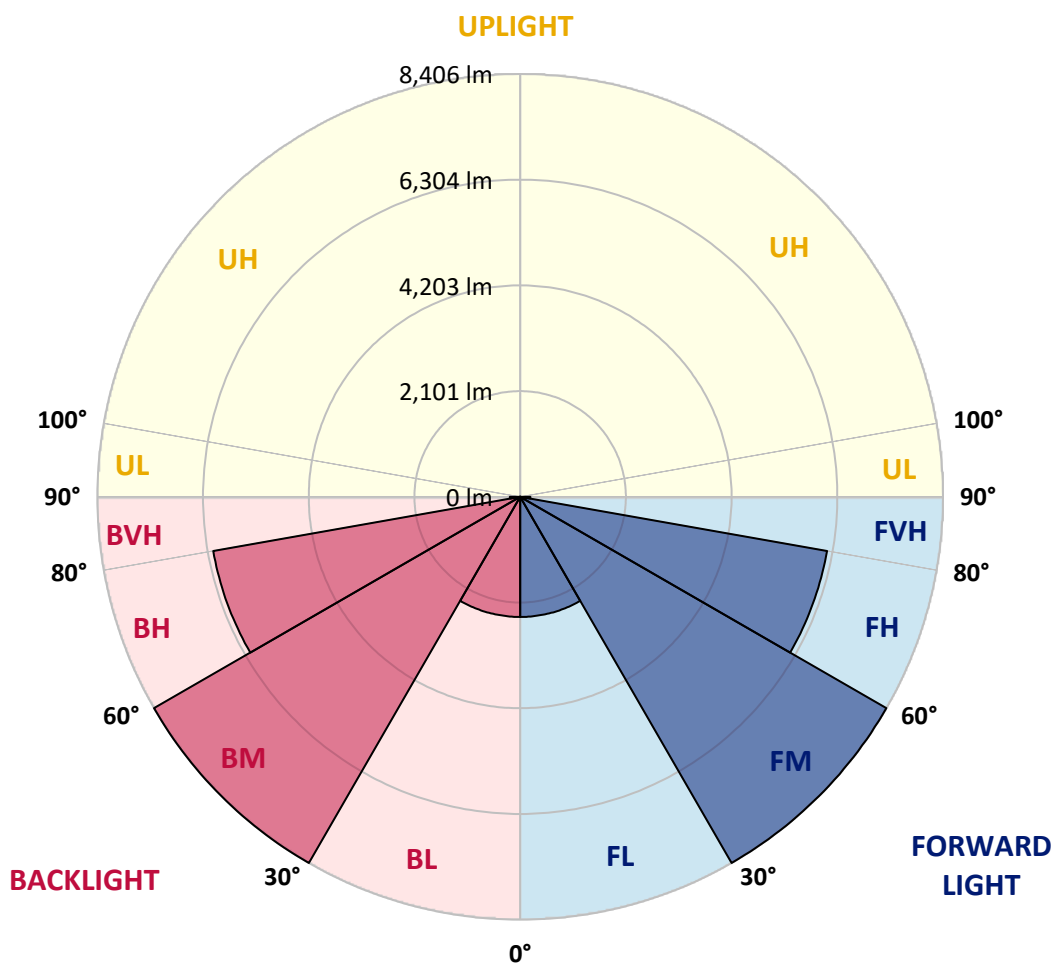
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2388.1	6.9			
FM	(30°-60°)	8405.7	24.4			
FH	(60°-80°)	6195.3	18.0			G3/7500
FVH	(80°-90°)	203.0	0.6			G2/225
BL	(0°-30°)	2388.1	6.9	B3/2500		
BM	(30°-60°)	8405.7	24.4	B4/8500		
BH	(60°-80°)	6195.3	18.0	B5		G5
BVH	(80°-90°)	203.0	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°	5656.9	5656.9	5656.9	5656.9	5656.9	5656.9	5656.9	5656.9	5656.9	5656.9	5656.9
2.5°	5610.1	5655.5	5662.8	5643.8	5645.2	5642.3	5654.0	5658.4	5664.3	5655.5	5651.1
5°	5601.3	5640.8	5648.2	5639.4	5651.1	5648.2	5654.0	5664.3	5662.8	5659.9	5659.9
7.5°	5554.4	5583.7	5607.2	5601.3	5604.2	5623.3	5643.8	5677.4	5693.6	5693.6	5690.6
10°	5492.9	5523.7	5563.2	5554.4	5573.5	5613.0	5654.0	5689.2	5730.2	5738.9	5738.9
12.5°	5427.0	5469.5	5507.6	5516.4	5560.3	5605.7	5680.4	5734.6	5781.4	5801.9	5800.5
15°	5339.2	5375.8	5421.2	5453.4	5523.7	5621.8	5719.9	5803.4	5870.7	5898.6	5903.0
17.5°	5222.0	5261.6	5309.9	5377.2	5500.3	5640.8	5793.1	5905.9	6008.4	6037.7	6037.7
20°	5068.3	5110.7	5169.3	5273.3	5440.2	5659.9	5863.4	6040.6	6173.9	6242.7	6252.9
22.5°	4829.6	4876.4	4971.6	5151.7	5371.4	5656.9	5946.9	6198.8	6399.4	6488.7	6499.0
25°	4564.5	4624.5	4759.3	4996.5	5286.4	5654.0	6030.4	6377.4	6645.4	6783.1	6812.3
27.5°	4330.2	4387.3	4552.8	4845.7	5207.4	5659.9	6113.8	6582.4	6969.0	7166.7	7191.6
30°	4100.3	4151.5	4336.1	4684.6	5134.2	5667.2	6220.7	6818.2	7336.6	7638.3	7698.3
32.5°	3911.4	3962.6	4141.3	4513.3	5044.8	5683.3	6356.9	7133.0	7847.7	8298.7	8336.8
35°	3745.9	3804.5	3961.2	4340.5	4926.2	5706.7	6528.3	7546.0	8579.9	9411.6	9455.6
37.5°	3602.4	3649.3	3788.4	4157.4	4801.7	5711.1	6727.4	8030.7	9525.9	10754.5	11054.7
40°	3507.2	3539.4	3646.3	3989.0	4637.7	5674.5	6955.9	8572.5	10580.2	12314.1	12656.7
42.5°	3420.8	3450.1	3535.0	3833.8	4466.4	5604.2	7168.2	9129.0	11636.0	13907.3	14230.9
45°	3316.8	3340.3	3426.7	3702.0	4299.5	5495.9	7343.9	9644.5	12728.5	15507.9	15812.5
47.5°	3231.9	3249.5	3322.7	3583.4	4113.5	5321.6	7418.6	10111.6	13900.0	16988.4	17366.2
50°	3173.3	3167.5	3231.9	3460.4	3923.1	5078.5	7355.6	10457.2	15134.5	18470.4	18877.5
52.5°	3072.3	3078.1	3139.7	3333.0	3764.9	4778.3	7109.6	10700.3	16376.3	19823.5	20305.2
55°	2968.3	2977.1	3025.4	3199.7	3598.0	4492.8	6654.2	10734.0	17675.2	21238.1	21566.1
57.5°	2857.0	2861.4	2902.4	3056.2	3412.0	4196.9	6080.1	10520.2	18880.4	22535.5	22846.0
60°	2758.9	2760.4	2788.2	2906.8	3205.6	3877.7	5412.4	10091.1	19851.3	23531.3	24036.5
62.5°	2627.1	2627.1	2644.7	2744.3	2994.7	3548.2	4771.0	9426.3	20381.4	24257.6	24625.2
65°	2438.2	2441.1	2458.7	2523.1	2717.9	3189.4	4169.1	8547.6	20349.2	24613.5	24982.5
67.5°	2076.5	2069.2	2174.6	2280.1	2432.4	2826.3	3579.0	7685.1	19611.1	24461.2	24806.8
70°	1503.9	1493.7	1555.2	1704.6	2072.1	2360.6	3041.5	6964.6	17490.7	23891.5	24178.6
72.5°	1234.5	1240.3	1243.3	1224.2	1386.8	1911.0	2540.7	6125.5	14431.6	22144.5	23037.8
75°	976.7	962.1	978.2	992.9	1036.8	1120.3	2056.0	5100.5	11712.2	18568.5	20075.3
77.5°	616.5	607.7	606.3	615.0	672.2	710.2	1259.4	3738.6	8149.3	11745.9	11845.5
80°	429.1	427.6	429.1	440.8	459.8	468.6	698.5	2048.7	4103.2	4277.5	4201.3
82.5°	304.6	294.3	285.6	307.5	297.3	288.5	420.3	938.7	1107.1	754.2	612.1
85°	150.8	153.8	130.3	165.5	155.2	150.8	164.0	178.7	165.5	309.0	350.0
87.5°	42.5	41.0	45.4	52.7	51.3	58.6	52.7	57.1	67.4	117.2	115.7
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)