

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: P510315

Luminaire Tested: **VERD-M-CA4-250-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510315
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-CA4-250-730-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36009 lumens
Efficiency: N/A
Efficacy: 143.1 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

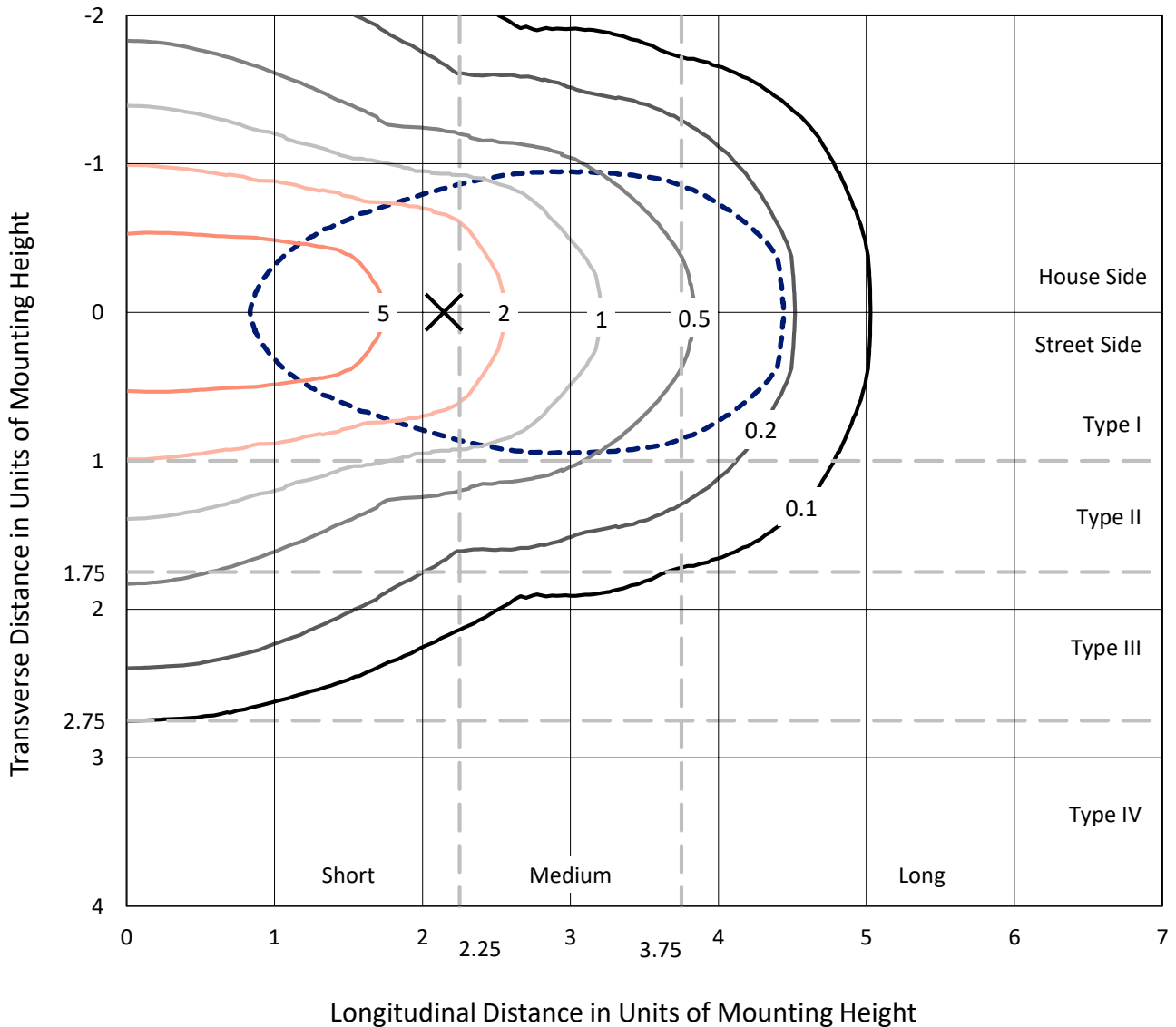
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

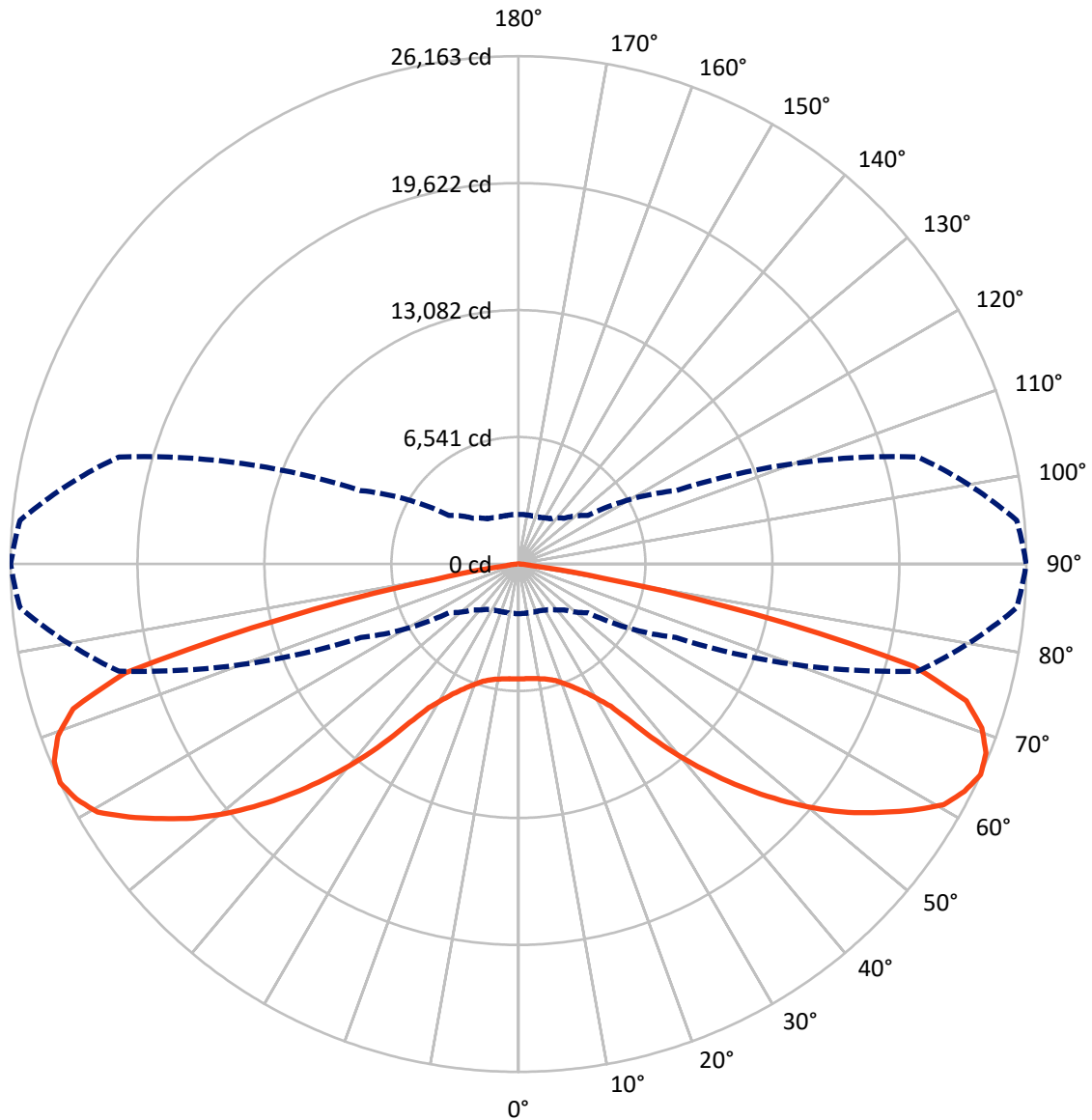
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	18004.5	0.0	18004.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18004.5	0.0	18004.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36009.0	0.0	36009.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.8	1.6
10°-20°	1674.2	4.6
20°-30°	2763.9	7.7
30°-40°	4049.9	11.2
40°-50°	5907.5	16.4
50°-60°	7648.3	21.2
60°-70°	8058.0	22.4
70°-80°	4918.1	13.7
80°-90°	425.1	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°	36009.0	100.0
0°-180°	36009.0	100.0



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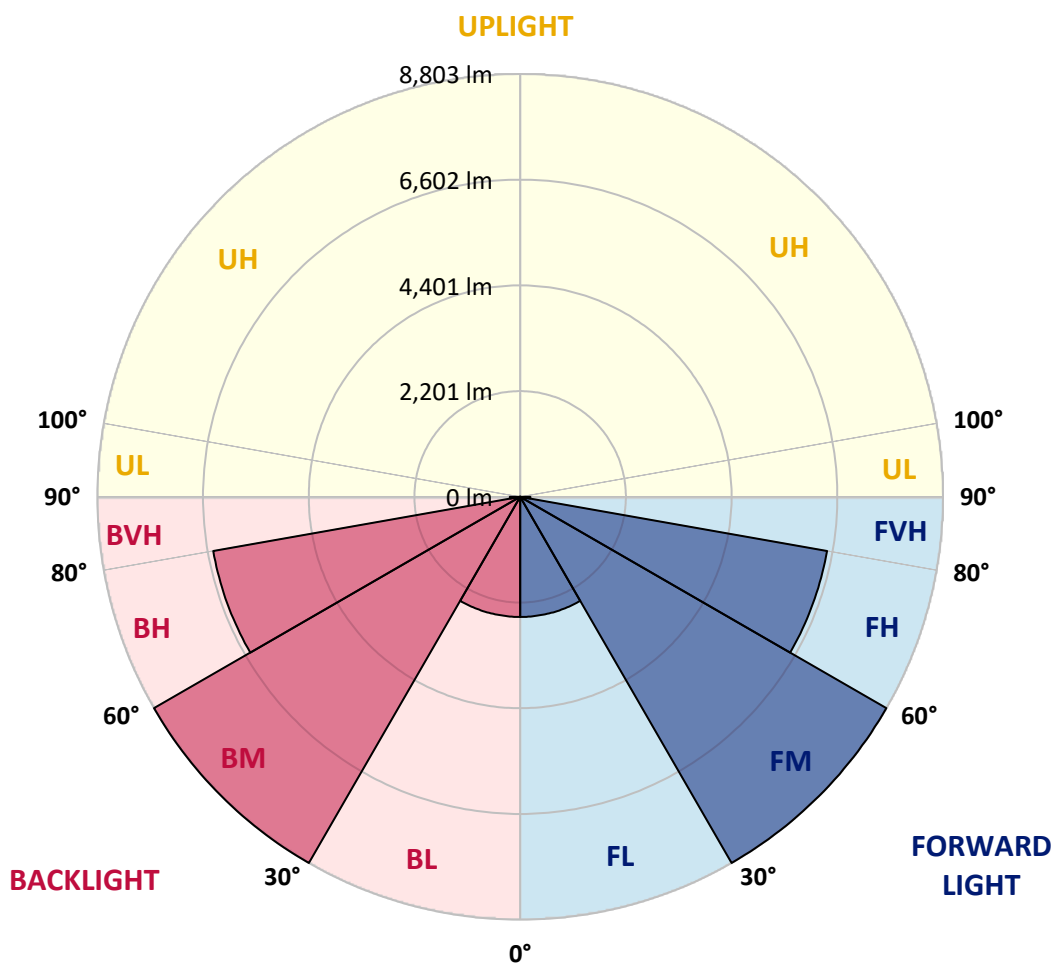
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2501.0	6.9			
FM	(30°-60°)	8802.9	24.4			
FH	(60°-80°)	6488.1	18.0			G3/7500
FVH	(80°-90°)	212.6	0.6			G2/225
BL	(0°-30°)	2501.0	6.9	B4/5000		
BM	(30°-60°)	8802.9	24.4	B5		
BH	(60°-80°)	6488.1	18.0	B5		G5
BVH	(80°-90°)	212.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5924.3	5924.3	5924.3	5924.3	5924.3	5924.3	5924.3	5924.3	5924.3	5924.3	5924.3
2.5°	5875.2	5922.8	5930.4	5910.5	5912.0	5909.0	5921.2	5925.8	5932.0	5922.8	5918.2
5°	5866.0	5907.4	5915.1	5905.9	5918.2	5915.1	5921.2	5932.0	5930.4	5927.4	5927.4
7.5°	5816.9	5847.6	5872.1	5866.0	5869.1	5889.0	5910.5	5945.8	5962.6	5962.6	5959.6
10°	5752.5	5784.7	5826.1	5816.9	5836.9	5878.3	5921.2	5958.0	6001.0	6010.2	6010.2
12.5°	5683.5	5728.0	5767.9	5777.1	5823.1	5870.6	5948.8	6005.6	6054.6	6076.1	6074.6
15°	5591.5	5629.8	5677.4	5711.1	5784.7	5887.5	5990.2	6077.6	6148.2	6177.3	6181.9
17.5°	5468.8	5510.2	5560.8	5631.4	5760.2	5907.4	6066.9	6185.0	6292.4	6323.0	6323.0
20°	5307.8	5352.3	5413.6	5522.5	5697.3	5927.4	6140.5	6326.1	6465.6	6537.7	6548.5
22.5°	5057.8	5106.9	5206.6	5395.2	5625.2	5924.3	6227.9	6491.7	6701.8	6795.4	6806.1
25°	4780.2	4843.1	4984.2	5232.6	5536.3	5921.2	6315.4	6678.8	6959.5	7103.6	7134.3
27.5°	4534.8	4594.7	4768.0	5074.7	5453.5	5927.4	6402.8	6893.5	7298.4	7505.4	7531.5
30°	4294.1	4347.8	4541.0	4906.0	5376.8	5935.0	6514.7	7140.4	7683.3	7999.2	8062.1
32.5°	4096.2	4149.9	4337.0	4726.5	5283.2	5951.9	6657.3	7470.2	8218.6	8690.9	8730.8
35°	3922.9	3984.3	4148.4	4545.6	5159.0	5976.4	6836.8	7902.6	8985.4	9856.4	9902.4
37.5°	3772.7	3821.7	3967.4	4353.9	5028.7	5981.0	7045.3	8410.3	9976.1	11262.7	11577.1
40°	3673.0	3706.7	3818.7	4177.5	4856.9	5942.7	7284.6	8977.7	11080.2	12896.0	13254.9
42.5°	3582.5	3613.2	3702.1	4015.0	4677.5	5869.1	7507.0	9560.5	12186.0	14564.6	14903.5
45°	3473.6	3498.1	3588.6	3876.9	4502.6	5755.6	7691.0	10100.3	13330.0	16240.8	16559.8
47.5°	3384.7	3403.1	3479.7	3752.7	4307.9	5573.1	7769.2	10589.5	14556.9	17791.3	18186.9
50°	3323.3	3317.2	3384.7	3623.9	4108.5	5318.5	7703.3	10951.4	15849.7	19343.3	19769.6
52.5°	3217.5	3223.6	3288.0	3490.5	3942.9	5004.1	7445.6	11206.0	17150.2	20760.3	21264.9
55°	3108.6	3117.8	3168.4	3350.9	3768.1	4705.1	6968.7	11241.3	18510.5	22241.8	22585.3
57.5°	2992.0	2996.7	3039.6	3200.6	3573.3	4395.3	6367.5	11017.4	19772.7	23600.5	23925.7
60°	2889.3	2890.8	2920.0	3044.2	3357.0	4061.0	5668.2	10568.0	20789.5	24643.4	25172.5
62.5°	2751.3	2751.3	2769.7	2874.0	3136.2	3715.9	4996.5	9871.8	21344.6	25404.1	25789.0
65°	2553.4	2556.5	2574.9	2642.4	2846.4	3340.2	4366.2	8951.6	21310.9	25776.7	26163.2
67.5°	2174.6	2167.0	2277.4	2387.8	2547.3	2959.8	3748.1	8048.3	20537.9	25617.2	25979.2
70°	1575.0	1564.3	1628.7	1785.1	2170.0	2472.2	3185.3	7293.8	18317.3	25020.7	25321.2
72.5°	1292.8	1299.0	1302.0	1282.1	1452.3	2001.3	2660.8	6415.0	15113.6	23191.1	24126.6
75°	1022.9	1007.6	1024.4	1039.8	1085.8	1173.2	2153.2	5341.5	12265.7	19446.0	21024.1
77.5°	645.6	636.4	634.9	644.1	703.9	743.8	1318.9	3915.3	8534.5	12301.0	12405.3
80°	449.3	447.8	449.3	461.6	481.5	490.8	731.5	2145.5	4297.1	4479.6	4399.9
82.5°	319.0	308.3	299.1	322.1	311.3	302.1	440.1	983.0	1159.4	789.8	641.0
85°	158.0	161.0	136.5	173.3	162.6	158.0	171.8	187.1	173.3	323.6	366.5
87.5°	44.5	42.9	47.5	55.2	53.7	61.3	55.2	59.8	70.5	122.7	121.2
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)