

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: P510211

Luminaire Tested: **VERD-M-CA4-230-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510211
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-CA4-230-727-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29117 lumens
Efficiency: N/A
Efficacy: 124.8 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

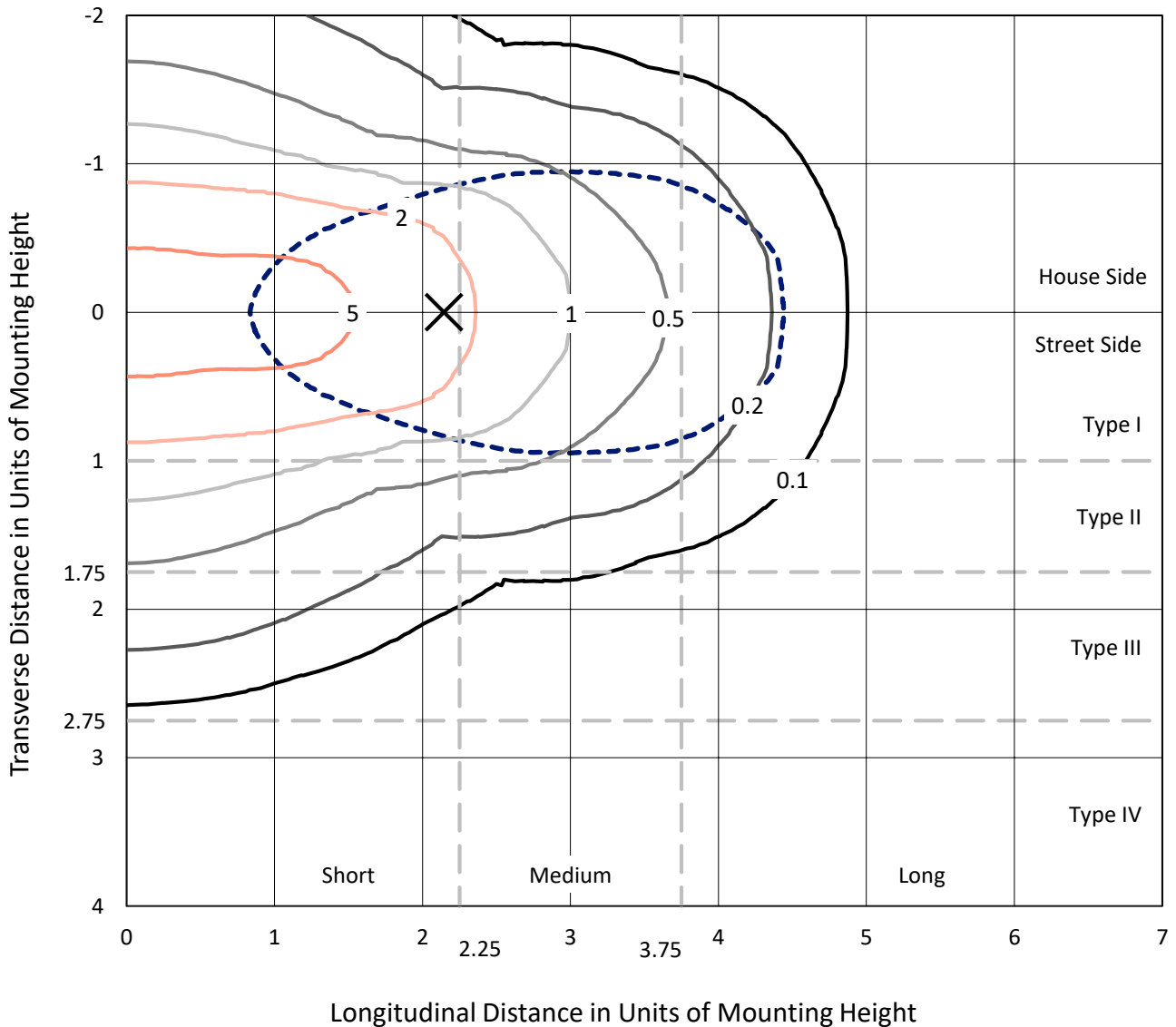
Input Watts (W): 233.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

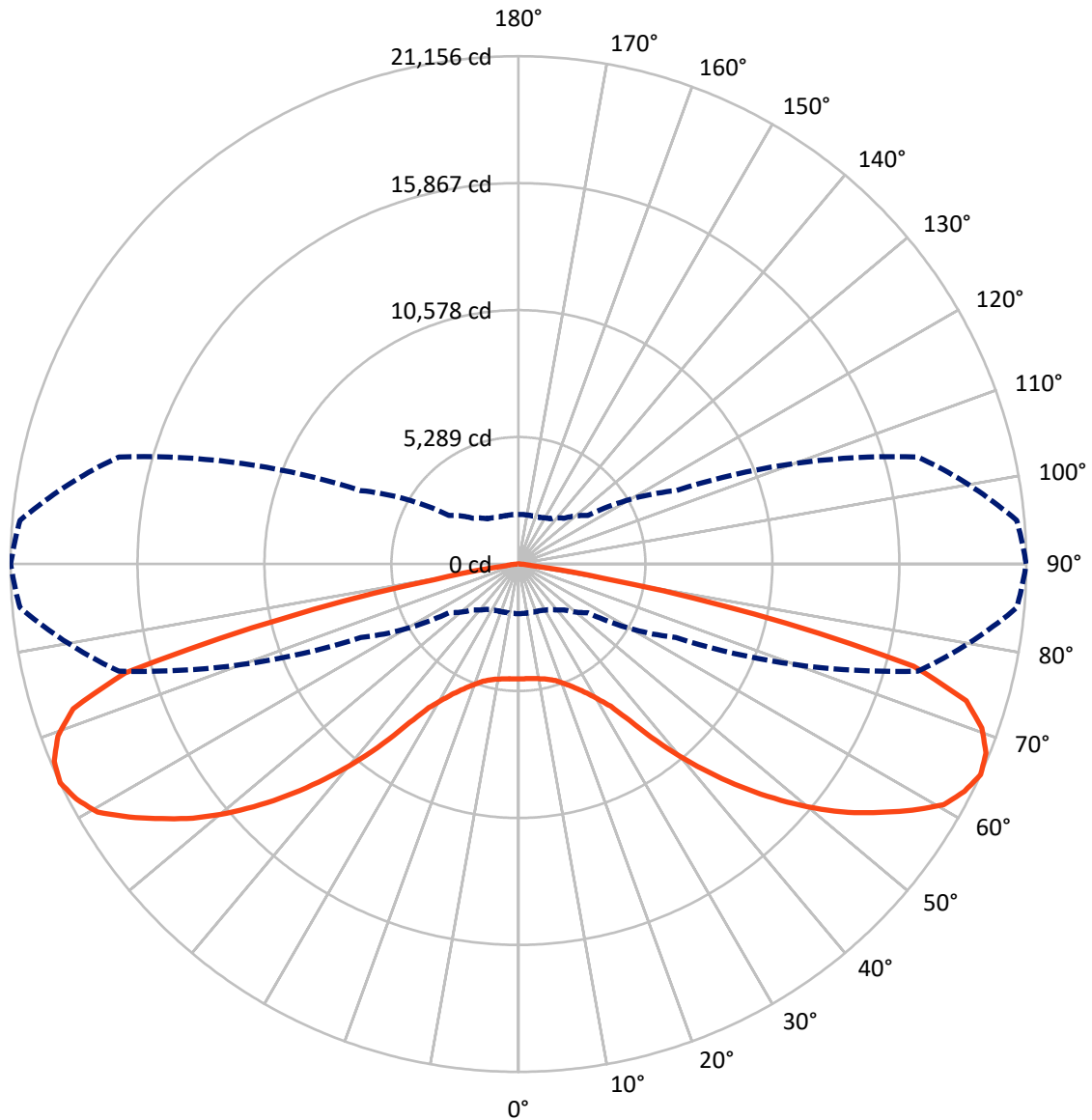
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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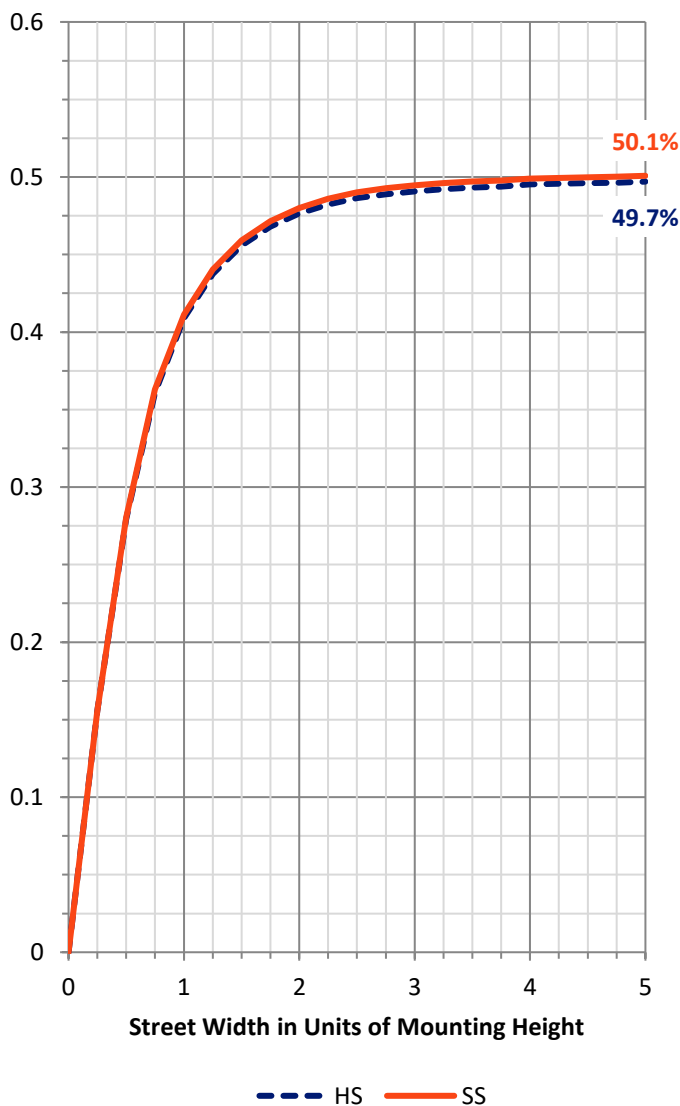
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14558.5	0.0	14558.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14558.5	0.0	14558.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29117.0	0.0	29117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.9	1.6
10°-20°	1353.7	4.6
20°-30°	2234.9	7.7
30°-40°	3274.8	11.2
40°-50°	4776.9	16.4
50°-60°	6184.5	21.2
60°-70°	6515.7	22.4
70°-80°	3976.8	13.7
80°-90°	343.8	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°	29117.0	100.0
0°-180°	29117.0	100.0

Coefficient of Utilization



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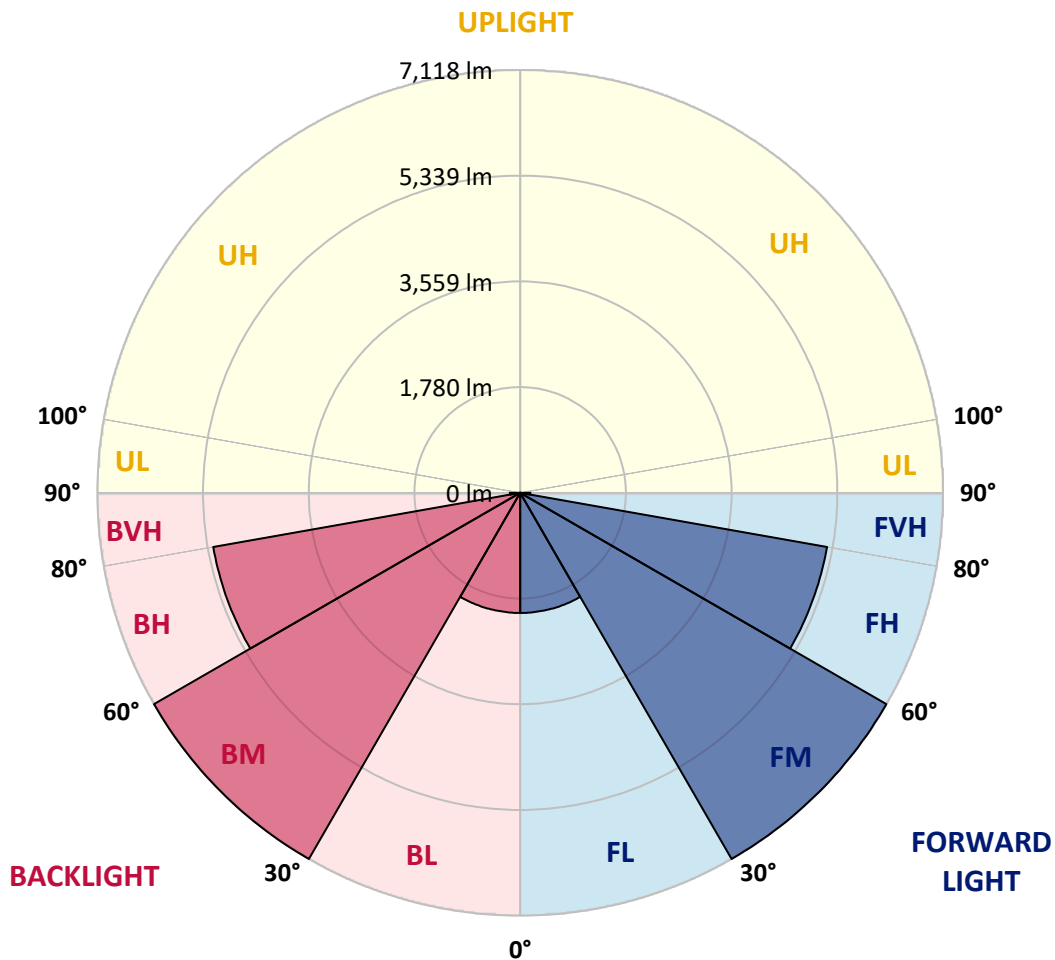
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2022.3	6.9			
FM (30°-60°)	7118.1	24.4			
FH (60°-80°)	5246.3	18.0			G3/7500
FVH (80°-90°)	171.9	0.6			G2/225
BL (0°-30°)	2022.3	6.9	B3/2500		
BM (30°-60°)	7118.1	24.4	B4/8500		
BH (60°-80°)	5246.3	18.0	B5		G5
BVH (80°-90°)	171.9	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°	4790.4	4790.4	4790.4	4790.4	4790.4	4790.4	4790.4	4790.4	4790.4	4790.4	4790.4
2.5°	4750.7	4789.2	4795.4	4779.2	4780.5	4778.0	4787.9	4791.6	4796.6	4789.2	4785.4
5°	4743.3	4776.8	4783.0	4775.5	4785.4	4783.0	4787.9	4796.6	4795.4	4792.9	4792.9
7.5°	4703.6	4728.4	4748.2	4743.3	4745.8	4761.9	4779.2	4807.8	4821.4	4821.4	4818.9
10°	4651.5	4677.6	4711.0	4703.6	4719.7	4753.2	4787.9	4817.7	4852.4	4859.8	4859.8
12.5°	4595.7	4631.7	4663.9	4671.4	4708.6	4747.0	4810.2	4856.1	4895.8	4913.2	4911.9
15°	4521.3	4552.3	4590.7	4618.0	4677.6	4760.6	4843.7	4914.4	4971.5	4995.0	4998.7
17.5°	4422.1	4455.6	4496.5	4553.5	4657.7	4776.8	4905.7	5001.2	5088.0	5112.8	5112.8
20°	4291.9	4327.9	4377.5	4465.5	4606.9	4792.9	4965.3	5115.3	5228.1	5286.4	5295.1
22.5°	4089.8	4129.4	4210.0	4362.6	4548.6	4790.4	5035.9	5249.2	5419.1	5494.8	5503.4
25°	3865.3	3916.1	4030.2	4231.1	4476.7	4787.9	5106.6	5400.5	5627.4	5744.0	5768.8
27.5°	3666.9	3715.3	3855.4	4103.4	4409.7	4792.9	5177.3	5574.1	5901.5	6068.9	6090.0
30°	3472.2	3515.6	3671.9	3967.0	4347.7	4799.1	5267.8	5773.8	6212.8	6468.2	6519.1
32.5°	3312.2	3355.6	3506.9	3821.9	4272.1	4812.7	5383.2	6040.4	6645.5	7027.5	7059.7
35°	3172.1	3221.7	3354.4	3675.6	4171.6	4832.6	5528.2	6390.1	7265.6	7969.9	8007.1
37.5°	3050.6	3090.3	3208.1	3520.6	4066.2	4836.3	5696.9	6800.6	8066.7	9107.1	9361.3
40°	2970.0	2997.3	3087.8	3378.0	3927.3	4805.3	5890.3	7259.4	8959.5	10427.8	10717.9
42.5°	2896.8	2921.6	2993.5	3246.5	3782.2	4745.8	6070.2	7730.6	9853.6	11777.0	12051.0
45°	2808.8	2828.6	2901.8	3134.9	3640.9	4654.0	6219.0	8167.1	10778.7	13132.4	13390.3
47.5°	2736.8	2751.7	2813.7	3034.5	3483.4	4506.4	6282.2	8562.7	11770.8	14386.1	14706.0
50°	2687.2	2682.3	2736.8	2930.3	3322.2	4300.6	6228.9	8855.4	12816.2	15641.0	15985.8
52.5°	2601.7	2606.6	2658.7	2822.4	3188.2	4046.4	6020.6	9061.2	13867.7	16786.9	17194.8
55°	2513.6	2521.1	2562.0	2709.6	3046.9	3804.5	5634.9	9089.7	14967.7	17984.8	18262.6
57.5°	2419.4	2423.1	2457.8	2588.0	2889.4	3554.0	5148.8	8908.7	15988.3	19083.5	19346.4
60°	2336.3	2337.5	2361.1	2461.5	2714.5	3283.7	4583.3	8545.3	16810.4	19926.7	20354.6
62.5°	2224.7	2224.7	2239.6	2323.9	2535.9	3004.7	4040.2	7982.3	17259.3	20541.8	20853.1
65°	2064.7	2067.2	2082.1	2136.6	2301.6	2700.9	3530.5	7238.3	17232.1	20843.1	21155.6
67.5°	1758.4	1752.2	1841.5	1930.8	2059.8	2393.3	3030.7	6507.9	16607.1	20714.2	21006.8
70°	1273.6	1264.9	1317.0	1443.4	1754.7	1999.0	2575.6	5897.8	14811.4	20231.8	20474.8
72.5°	1045.4	1050.3	1052.8	1036.7	1174.3	1618.3	2151.5	5187.2	12220.9	18752.4	19508.8
75°	827.1	814.7	828.4	840.8	878.0	948.7	1741.1	4319.2	9918.1	15724.1	17000.2
77.5°	522.1	514.6	513.4	520.8	569.2	601.4	1066.5	3165.9	6901.0	9946.6	10030.9
80°	363.3	362.1	363.3	373.3	389.4	396.8	591.5	1734.9	3474.7	3622.3	3557.8
82.5°	257.9	249.3	241.8	260.4	251.7	244.3	355.9	794.9	937.5	638.6	518.4
85°	127.7	130.2	110.4	140.1	131.4	127.7	138.9	151.3	140.1	261.7	296.4
87.5°	36.0	34.7	38.4	44.6	43.4	49.6	44.6	48.4	57.0	99.2	98.0
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)