

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: P509939

Luminaire Tested: **VERD-M-CA3-170-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509939
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-CA3-170-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1060mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25924 lumens
Efficiency: N/A
Efficacy: 150.0 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

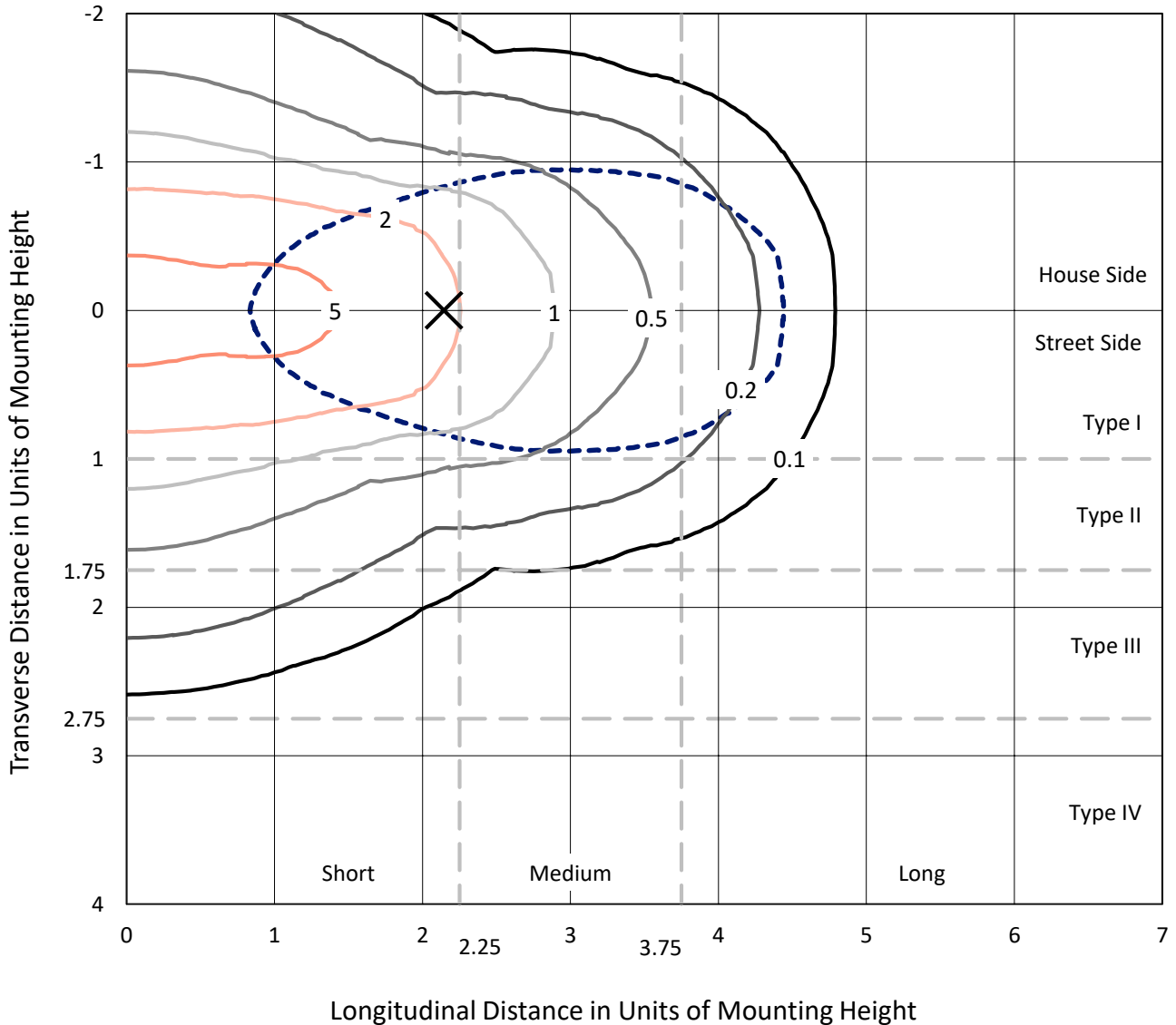
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

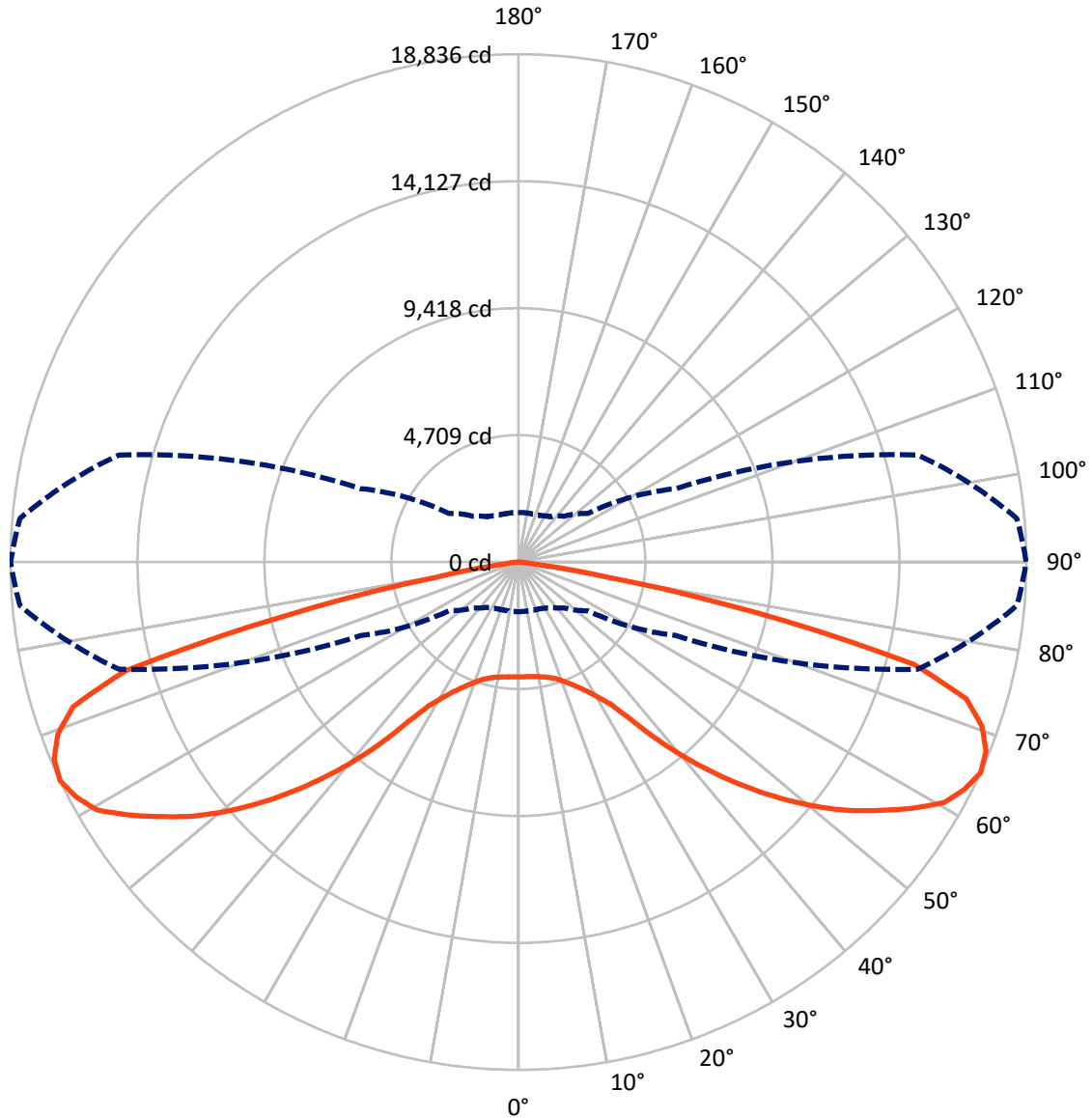
✕ Max cd
 - - - 1/2 Max cd



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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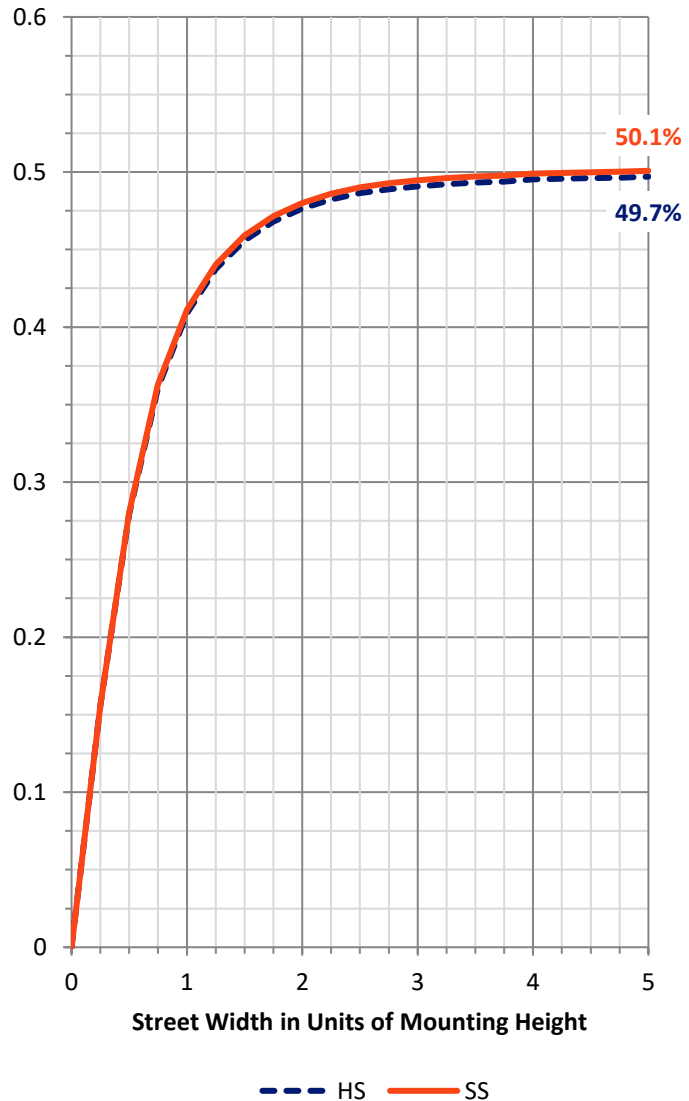
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12962.0	0.0	12962.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12962.0	0.0	12962.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25924.0	0.0	25924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.6
10°-20°	1205.3	4.6
20°-30°	1989.8	7.7
30°-40°	2915.7	11.2
40°-50°	4253.0	16.4
50°-60°	5506.3	21.2
60°-70°	5801.2	22.4
70°-80°	3540.7	13.7
80°-90°	306.1	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°	25924.0	100.0
0°-180°	25924.0	100.0

Coefficient of Utilization



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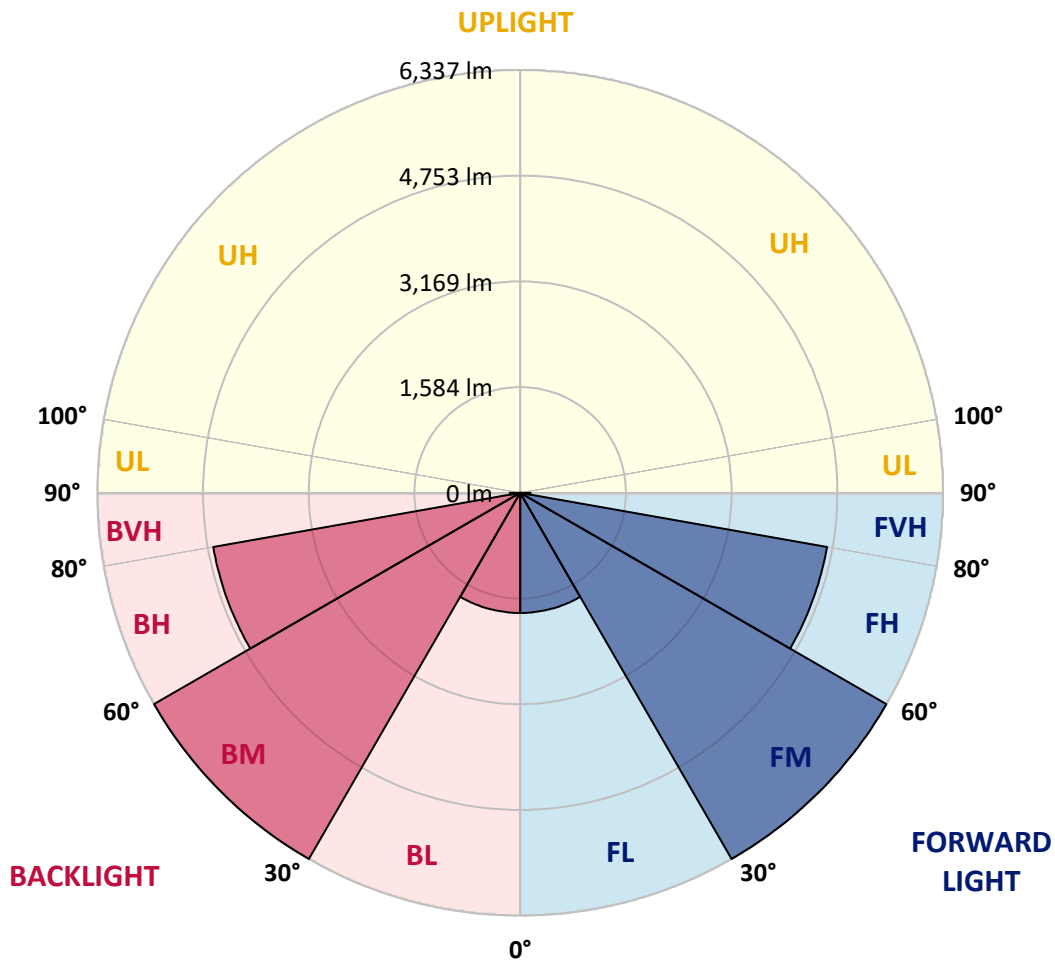
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1800.5	6.9			
FM	(30°-60°)	6337.5	24.4			
FH	(60°-80°)	4671.0	18.0			G2/5000
FVH	(80°-90°)	153.0	0.6			G2/225
BL	(0°-30°)	1800.5	6.9	B3/2500		
BM	(30°-60°)	6337.5	24.4	B4/8500		
BH	(60°-80°)	4671.0	18.0	B4/5000		G4/5000
BVH	(80°-90°)	153.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1
2.5°	4229.7	4264.0	4269.5	4255.1	4256.2	4254.0	4262.9	4266.2	4270.6	4264.0	4260.7
5°	4223.1	4252.9	4258.5	4251.8	4260.7	4258.5	4262.9	4270.6	4269.5	4267.3	4267.3
7.5°	4187.8	4209.9	4227.5	4223.1	4225.3	4239.7	4255.1	4280.5	4292.7	4292.7	4290.5
10°	4141.4	4164.6	4194.4	4187.8	4202.1	4232.0	4262.9	4289.4	4320.3	4326.9	4326.9
12.5°	4091.7	4123.8	4152.5	4159.1	4192.2	4226.4	4282.7	4323.6	4358.9	4374.4	4373.3
15°	4025.5	4053.1	4087.3	4111.6	4164.6	4238.6	4312.6	4375.5	4426.3	4447.3	4450.6
17.5°	3937.2	3967.0	4003.4	4054.2	4146.9	4252.9	4367.8	4452.8	4530.1	4552.1	4552.1
20°	3821.2	3853.3	3897.4	3975.8	4101.7	4267.3	4420.8	4554.4	4654.8	4706.7	4714.4
22.5°	3641.3	3676.6	3748.4	3884.2	4049.8	4265.1	4483.7	4673.6	4824.9	4892.2	4899.9
25°	3441.4	3486.7	3588.3	3767.1	3985.7	4262.9	4546.6	4808.3	5010.3	5114.1	5136.2
27.5°	3264.8	3307.8	3432.6	3653.4	3926.1	4267.3	4609.6	4962.9	5254.3	5403.4	5422.2
30°	3091.4	3130.1	3269.2	3532.0	3870.9	4272.8	4690.2	5140.6	5531.5	5758.9	5804.2
32.5°	2949.0	2987.7	3122.4	3402.8	3803.6	4285.0	4792.8	5378.0	5916.8	6256.8	6285.6
35°	2824.2	2868.4	2986.6	3272.5	3714.1	4302.6	4922.0	5689.4	6468.8	7096.0	7129.1
37.5°	2716.0	2751.4	2856.3	3134.5	3620.3	4305.9	5072.2	6054.8	7182.1	8108.4	8334.7
40°	2644.3	2668.6	2749.2	3007.5	3496.6	4278.3	5244.4	6463.3	7977.0	9284.3	9542.6
42.5°	2579.1	2601.2	2665.3	2890.5	3367.5	4225.3	5404.5	6882.9	8773.1	10485.5	10729.5
45°	2500.8	2518.4	2583.6	2791.1	3241.6	4143.6	5537.0	7271.5	9596.7	11692.3	11921.9
47.5°	2436.7	2450.0	2505.2	2701.7	3101.4	4012.2	5593.3	7623.7	10480.0	12808.5	13093.3
50°	2392.6	2388.1	2436.7	2609.0	2957.8	3829.0	5545.8	7884.3	11410.7	13925.8	14232.8
52.5°	2316.4	2320.8	2367.2	2512.9	2838.6	3602.6	5360.3	8067.5	12347.0	14946.0	15309.2
55°	2238.0	2244.6	2281.0	2412.4	2712.7	3387.3	5017.0	8092.9	13326.3	16012.5	16259.9
57.5°	2154.1	2157.4	2188.3	2304.2	2572.5	3164.3	4584.2	7931.7	14235.0	16990.8	17224.8
60°	2080.1	2081.2	2102.2	2191.6	2416.8	2923.6	4080.7	7608.3	14967.0	17741.5	18122.5
62.5°	1980.7	1980.7	1994.0	2069.1	2257.9	2675.2	3597.1	7107.0	15366.7	18289.2	18566.3
65°	1838.3	1840.5	1853.8	1902.3	2049.2	2404.7	3143.3	6444.5	15342.4	18557.5	18835.7
67.5°	1565.6	1560.1	1639.6	1719.1	1833.9	2130.9	2698.4	5794.2	14785.9	18442.6	18703.2
70°	1133.9	1126.2	1172.5	1285.2	1562.3	1779.8	2293.2	5251.0	13187.2	18013.1	18229.5
72.5°	930.7	935.2	937.4	923.0	1045.6	1440.8	1915.6	4618.4	10880.8	16696.0	17369.5
75°	736.4	725.4	737.5	748.6	781.7	844.6	1550.1	3845.5	8830.5	13999.8	15135.9
77.5°	464.8	458.2	457.1	463.7	506.8	535.5	949.5	2818.7	6144.2	8855.9	8930.9
80°	323.5	322.4	323.5	332.3	346.7	353.3	526.6	1544.6	3093.6	3225.0	3167.6
82.5°	229.6	221.9	215.3	231.9	224.1	217.5	316.9	707.7	834.7	568.6	461.5
85°	113.7	115.9	98.3	124.8	117.0	113.7	123.7	134.7	124.8	233.0	263.9
87.5°	32.0	30.9	34.2	39.7	38.6	44.2	39.7	43.1	50.8	88.3	87.2
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)