

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: P510043

Luminaire Tested: **VERD-M-CA4-190-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510043
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-CA4-190-750-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 870mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29873 lumens
Efficiency: N/A
Efficacy: 154.7 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

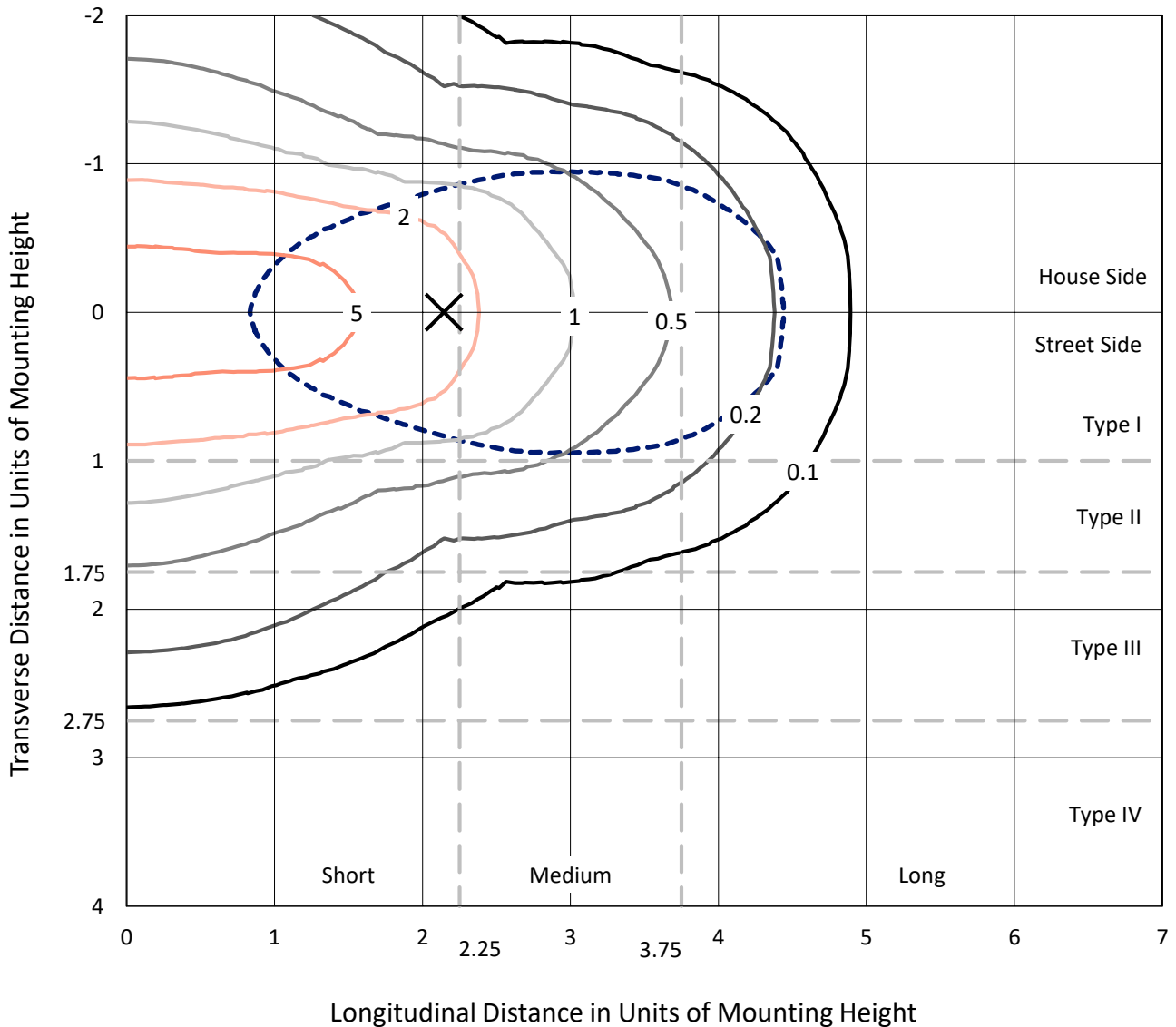
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

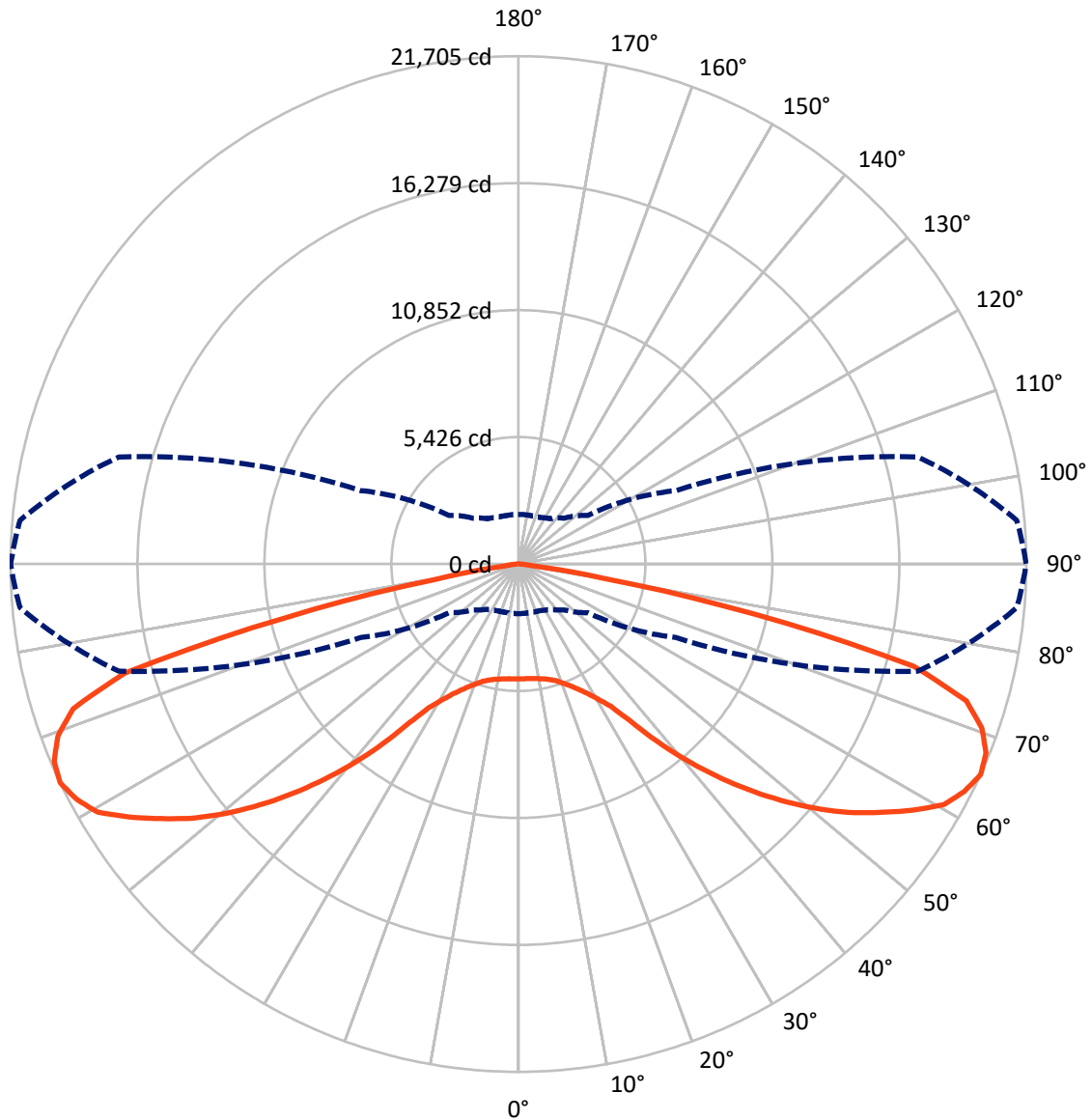
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type I - Short - N/A

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CATALOG NUMBER: VERD-M-CA4-190-750-U-T1

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	14936.5	0.0	14936.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14936.5	0.0	14936.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29873.0	0.0	29873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.7	1.6
10°-20°	1388.9	4.6
20°-30°	2293.0	7.7
30°-40°	3359.8	11.2
40°-50°	4900.9	16.4
50°-60°	6345.0	21.2
60°-70°	6684.9	22.4
70°-80°	4080.1	13.7
80°-90°	352.7	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°	29873.0	100.0
0°-180°	29873.0	100.0



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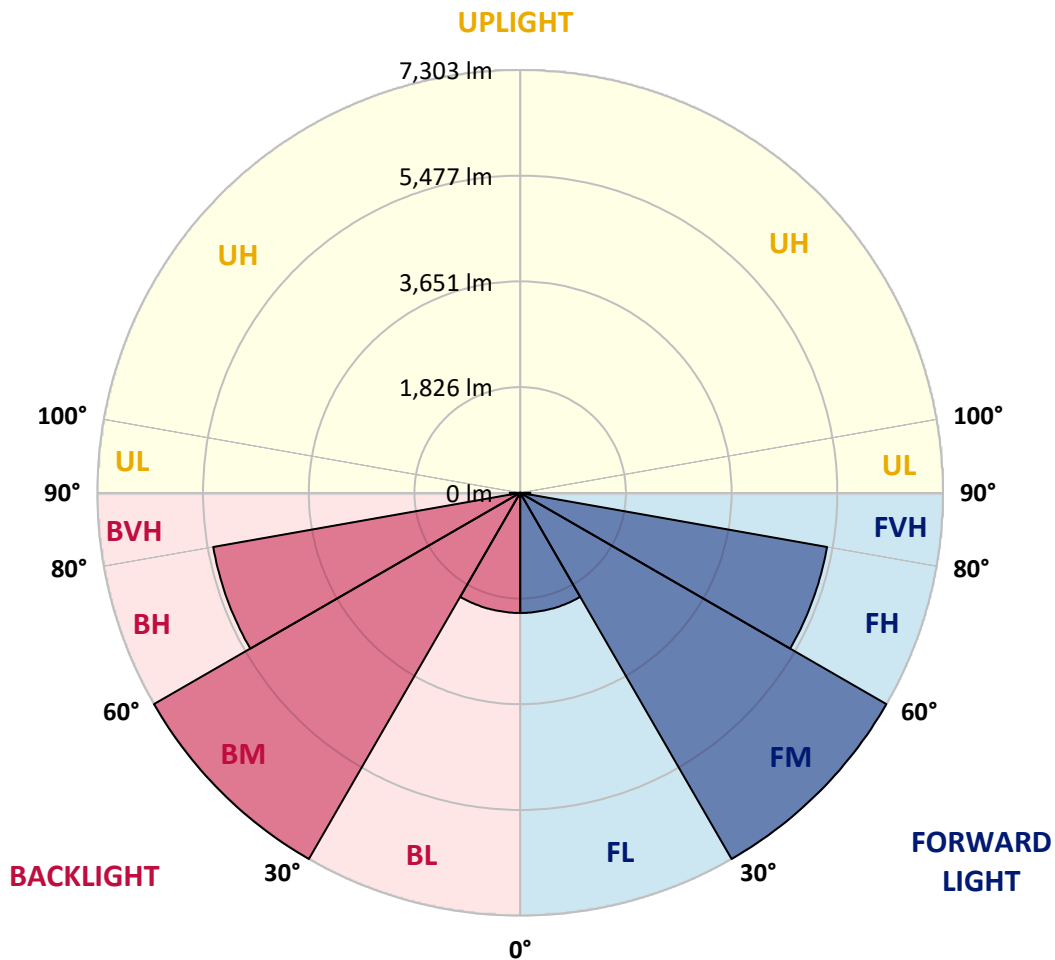
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2074.8	6.9			
FM	(30°-60°)	7302.9	24.4			
FH	(60°-80°)	5382.5	18.0			G3/7500
FVH	(80°-90°)	176.3	0.6			G2/225
BL	(0°-30°)	2074.8	6.9	B3/2500		
BM	(30°-60°)	7302.9	24.4	B4/8500		
BH	(60°-80°)	5382.5	18.0	B5		G5
BVH	(80°-90°)	176.3	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°	4914.8	4914.8	4914.8	4914.8	4914.8	4914.8	4914.8	4914.8	4914.8	4914.8	4914.8
2.5°	4874.1	4913.5	4919.9	4903.3	4904.6	4902.1	4912.2	4916.1	4921.1	4913.5	4909.7
5°	4866.4	4900.8	4907.1	4899.5	4909.7	4907.1	4912.2	4921.1	4919.9	4917.3	4917.3
7.5°	4825.7	4851.2	4871.5	4866.4	4869.0	4885.5	4903.3	4932.6	4946.6	4946.6	4944.0
10°	4772.3	4799.0	4833.4	4825.7	4842.3	4876.6	4912.2	4942.8	4978.4	4986.0	4986.0
12.5°	4715.0	4751.9	4785.0	4792.6	4830.8	4870.3	4935.1	4982.2	5022.9	5040.7	5039.5
15°	4638.7	4670.5	4709.9	4737.9	4799.0	4884.2	4969.5	5042.0	5100.5	5124.7	5128.5
17.5°	4536.9	4571.3	4613.3	4671.8	4778.6	4900.8	5033.1	5131.1	5220.1	5245.6	5245.6
20°	4403.3	4440.2	4491.1	4581.4	4726.5	4917.3	5094.2	5248.1	5363.9	5423.7	5432.6
22.5°	4195.9	4236.7	4319.4	4475.8	4666.7	4914.8	5166.7	5385.5	5559.8	5637.4	5646.3
25°	3965.7	4017.8	4134.9	4341.0	4592.9	4912.2	5239.2	5540.7	5773.6	5893.2	5918.6
27.5°	3762.1	3811.7	3955.5	4209.9	4524.2	4917.3	5311.7	5718.9	6054.7	6226.5	6248.1
30°	3562.4	3606.9	3767.2	4070.0	4460.6	4923.7	5404.6	5923.7	6374.1	6636.2	6688.3
32.5°	3398.2	3442.8	3598.0	3921.1	4383.0	4937.7	5522.9	6197.2	6818.1	7210.0	7243.0
35°	3254.5	3305.4	3441.5	3771.0	4279.9	4958.0	5671.8	6556.0	7454.2	8176.9	8215.0
37.5°	3129.8	3170.5	3291.4	3612.0	4171.8	4961.9	5844.8	6977.1	8276.1	9343.6	9604.4
40°	3047.1	3075.1	3168.0	3465.7	4029.3	4930.0	6043.3	7447.9	9192.2	10698.5	10996.2
42.5°	2972.0	2997.5	3071.3	3330.8	3880.4	4869.0	6227.8	7931.3	10109.5	12082.8	12363.9
45°	2881.7	2902.0	2977.1	3216.3	3735.4	4774.8	6380.4	8379.2	11058.6	13473.3	13738.0
47.5°	2807.9	2823.2	2886.8	3113.2	3573.8	4623.4	6445.3	8785.0	12076.4	14759.6	15087.9
50°	2757.0	2751.9	2807.9	3006.4	3408.4	4412.2	6390.6	9085.3	13148.9	16047.1	16400.8
52.5°	2669.2	2674.3	2727.7	2895.7	3271.0	4151.4	6176.9	9296.5	14227.8	17222.7	17641.3
55°	2578.9	2586.5	2628.5	2779.9	3126.0	3903.3	5781.2	9325.7	15356.3	18451.7	18736.7
57.5°	2482.2	2486.0	2521.6	2655.2	2964.4	3646.3	5282.5	9140.0	16403.4	19579.0	19848.7
60°	2397.0	2398.2	2422.4	2525.5	2785.0	3369.0	4702.3	8767.2	17246.9	20444.1	20883.0
62.5°	2282.5	2282.5	2297.7	2384.2	2601.8	3082.7	4145.1	8189.6	17707.5	21075.2	21394.5
65°	2118.3	2120.9	2136.1	2192.1	2361.3	2771.0	3622.2	7426.2	17679.5	21384.3	21704.9
67.5°	1804.1	1797.7	1889.3	1980.9	2113.2	2455.5	3109.4	6676.9	17038.2	21252.0	21552.3
70°	1306.6	1297.7	1351.2	1480.9	1800.3	2050.9	2642.5	6050.9	15196.0	20757.1	21006.5
72.5°	1072.5	1077.6	1080.2	1063.6	1204.8	1660.3	2207.4	5321.9	12538.2	19239.3	20015.4
75°	848.6	835.9	849.9	862.6	900.8	973.3	1786.3	4431.3	10175.6	16132.4	17441.6
77.5°	535.6	528.0	526.7	534.4	584.0	617.1	1094.2	3248.1	7080.2	10204.9	10291.4
80°	372.8	371.5	372.8	383.0	399.5	407.1	606.9	1779.9	3564.9	3716.3	3650.1
82.5°	264.6	255.7	248.1	267.2	258.3	250.6	365.1	815.5	961.8	655.2	531.8
85°	131.0	133.6	113.2	143.8	134.9	131.0	142.5	155.2	143.8	268.4	304.1
87.5°	36.9	35.6	39.4	45.8	44.5	50.9	45.8	49.6	58.5	101.8	100.5
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)