

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: P510019

Luminaire Tested: **VERD-M-CA4-190-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510019
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-CA4-190-727-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2700K, 870mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24841 lumens
Efficiency: N/A
Efficacy: 128.6 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

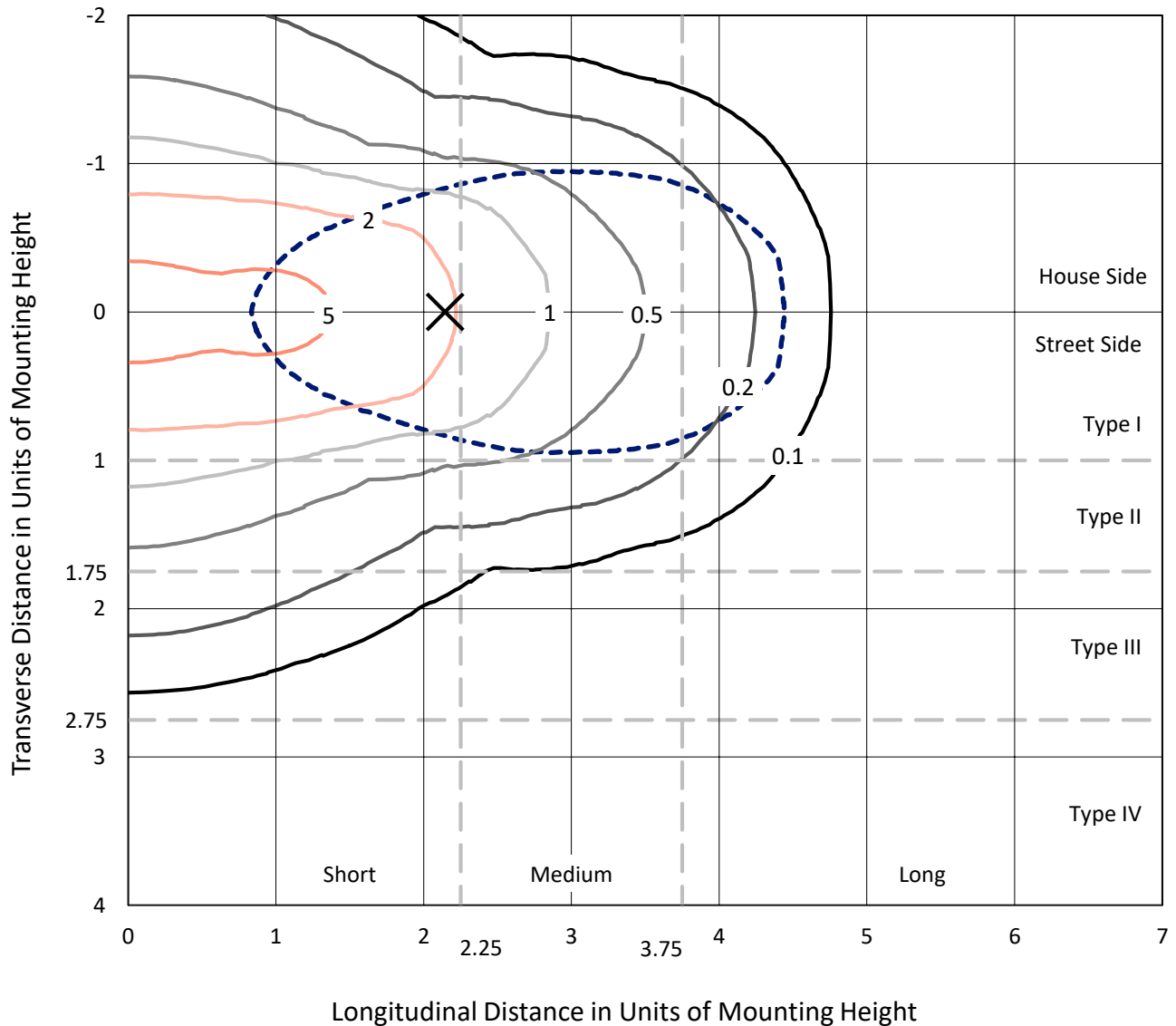
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

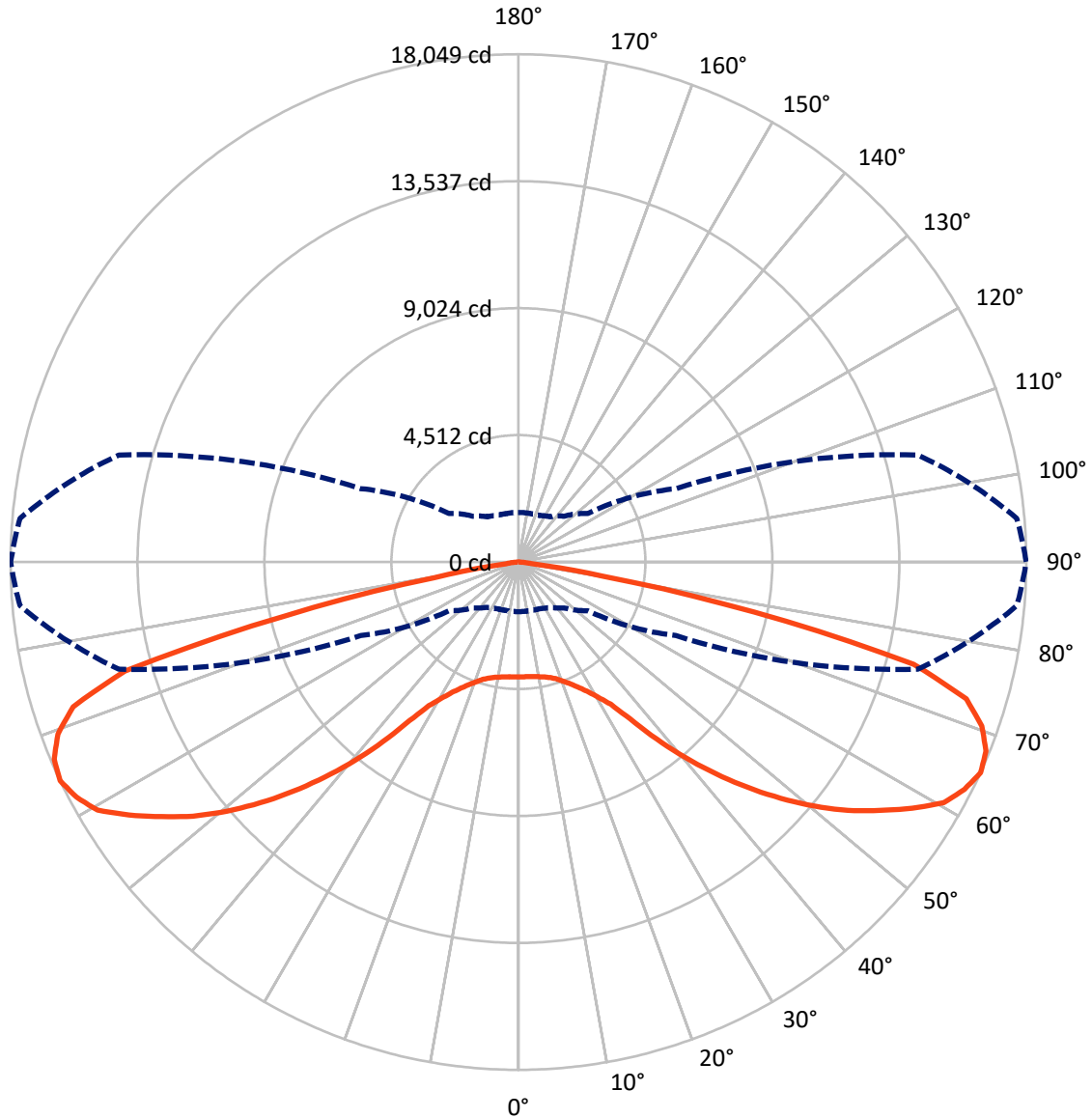
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	12420.5	0.0	12420.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12420.5	0.0	12420.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24841.0	0.0	24841.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.0	1.6
10°-20°	1154.9	4.6
20°-30°	1906.7	7.7
30°-40°	2793.9	11.2
40°-50°	4075.4	16.4
50°-60°	5276.3	21.2
60°-70°	5558.9	22.4
70°-80°	3392.8	13.7
80°-90°	293.3	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°	24841.0	100.0
0°-180°	24841.0	100.0



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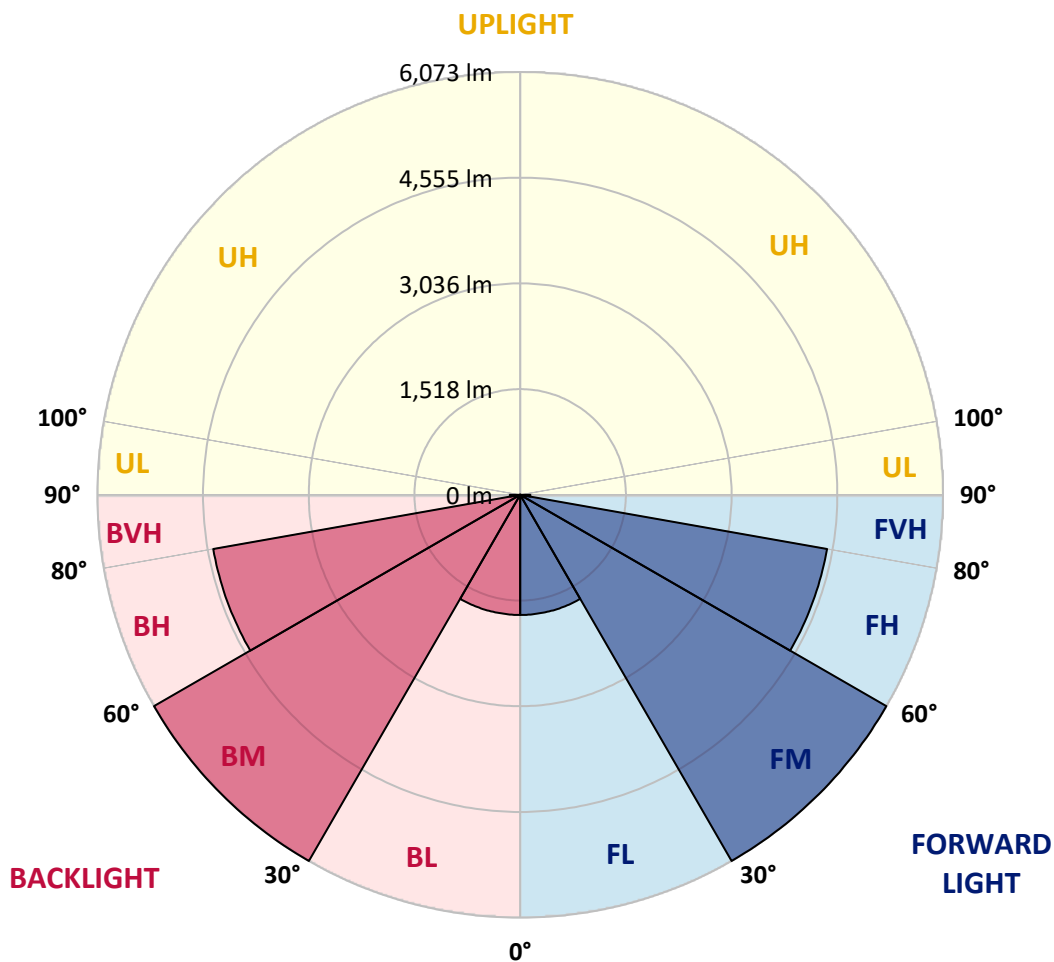
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.3	6.9			
FM (30°-60°)	6072.7	24.4			
FH (60°-80°)	4475.8	18.0			G2/5000
FVH (80°-90°)	146.6	0.6			G2/225
BL (0°-30°)	1725.3	6.9	B3/2500		
BM (30°-60°)	6072.7	24.4	B4/8500		
BH (60°-80°)	4475.8	18.0	B4/5000		G4/5000
BVH (80°-90°)	146.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9	4086.9
2.5°	4053.0	4085.8	4091.1	4077.4	4078.4	4076.3	4084.8	4088.0	4092.2	4085.8	4082.7
5°	4046.7	4075.3	4080.6	4074.2	4082.7	4080.6	4084.8	4092.2	4091.1	4089.0	4089.0
7.5°	4012.8	4034.0	4050.9	4046.7	4048.8	4062.6	4077.4	4101.7	4113.4	4113.4	4111.2
10°	3968.4	3990.6	4019.2	4012.8	4026.6	4055.2	4084.8	4110.2	4139.8	4146.1	4146.1
12.5°	3920.8	3951.5	3979.0	3985.3	4017.1	4049.9	4103.8	4143.0	4176.8	4191.6	4190.6
15°	3857.3	3883.8	3916.6	3939.8	3990.6	4061.5	4132.4	4192.7	4241.4	4261.5	4264.6
17.5°	3772.7	3801.3	3836.2	3884.8	3973.7	4075.3	4185.3	4266.8	4340.8	4362.0	4362.0
20°	3661.6	3692.3	3734.6	3809.7	3930.3	4089.0	4236.1	4364.1	4460.4	4510.1	4517.5
22.5°	3489.2	3523.0	3591.8	3721.9	3880.6	4086.9	4296.4	4478.3	4623.3	4687.8	4695.2
25°	3297.7	3341.0	3438.4	3609.8	3819.2	4084.8	4356.7	4607.4	4801.0	4900.5	4921.6
27.5°	3128.4	3169.7	3289.2	3500.8	3762.1	4089.0	4417.0	4755.5	5034.8	5177.7	5195.6
30°	2962.3	2999.3	3132.6	3384.4	3709.2	4094.3	4494.2	4925.9	5300.4	5518.3	5561.7
32.5°	2825.8	2862.8	2991.9	3260.6	3644.7	4105.9	4592.6	5153.3	5669.6	5995.5	6023.0
35°	2706.3	2748.6	2861.8	3135.8	3559.0	4122.9	4716.4	5451.7	6198.6	6799.5	6831.3
37.5°	2602.6	2636.4	2736.9	3003.6	3469.1	4126.0	4860.3	5801.9	6882.0	7769.7	7986.5
40°	2533.8	2557.1	2634.3	2881.9	3350.6	4099.6	5025.3	6193.3	7643.8	8896.4	9144.0
42.5°	2471.4	2492.6	2553.9	2769.7	3226.8	4048.8	5178.7	6595.3	8406.6	10047.5	10281.3
45°	2396.3	2413.2	2475.6	2674.5	3106.2	3970.5	5305.7	6967.7	9195.8	11203.8	11423.9
47.5°	2334.9	2347.6	2400.5	2588.8	2971.8	3844.6	5359.6	7305.2	10042.2	12273.4	12546.4
50°	2292.6	2288.4	2334.9	2500.0	2834.3	3669.0	5314.1	7554.9	10934.0	13344.1	13638.2
52.5°	2219.6	2223.8	2268.3	2407.9	2720.0	3452.1	5136.4	7730.5	11831.2	14321.6	14669.7
55°	2144.5	2150.8	2185.7	2311.6	2599.4	3245.8	4807.4	7754.9	12769.6	15343.6	15580.6
57.5°	2064.1	2067.3	2096.9	2208.0	2465.0	3032.1	4392.7	7600.4	13640.3	16281.0	16505.2
60°	1993.2	1994.3	2014.4	2100.1	2315.9	2801.5	3910.2	7290.4	14341.7	17000.4	17365.4
62.5°	1898.0	1898.0	1910.7	1982.6	2163.5	2563.4	3446.8	6810.1	14724.7	17525.1	17790.7
65°	1761.5	1763.6	1776.3	1822.9	1963.6	2304.2	3012.0	6175.3	14701.4	17782.2	18048.8
67.5°	1500.2	1494.9	1571.1	1647.2	1757.3	2041.9	2585.7	5552.2	14168.2	17672.2	17921.9
70°	1086.5	1079.1	1123.6	1231.5	1497.0	1705.4	2197.4	5031.7	12636.3	17260.6	17468.0
72.5°	891.9	896.1	898.2	884.5	1001.9	1380.6	1835.6	4425.5	10426.2	15998.5	16643.8
75°	705.7	695.1	706.7	717.3	749.0	809.3	1485.4	3684.9	8461.6	13414.9	14503.6
77.5°	445.4	439.1	438.0	444.3	485.6	513.1	909.8	2701.0	5887.6	8485.9	8557.8
80°	310.0	308.9	310.0	318.4	332.2	338.5	504.6	1480.1	2964.4	3090.3	3035.3
82.5°	220.1	212.7	206.3	222.2	214.8	208.4	303.6	678.2	799.8	544.8	442.2
85°	109.0	111.1	94.2	119.5	112.1	109.0	118.5	129.1	119.5	223.2	252.9
87.5°	30.7	29.6	32.8	38.1	37.0	42.3	38.1	41.3	48.7	84.6	83.6
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)