

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: P510011

Luminaire Tested: **VERD-M-CA4-190-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510011
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-CA4-190-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 870mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23908 lumens
Efficiency: N/A
Efficacy: 123.8 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

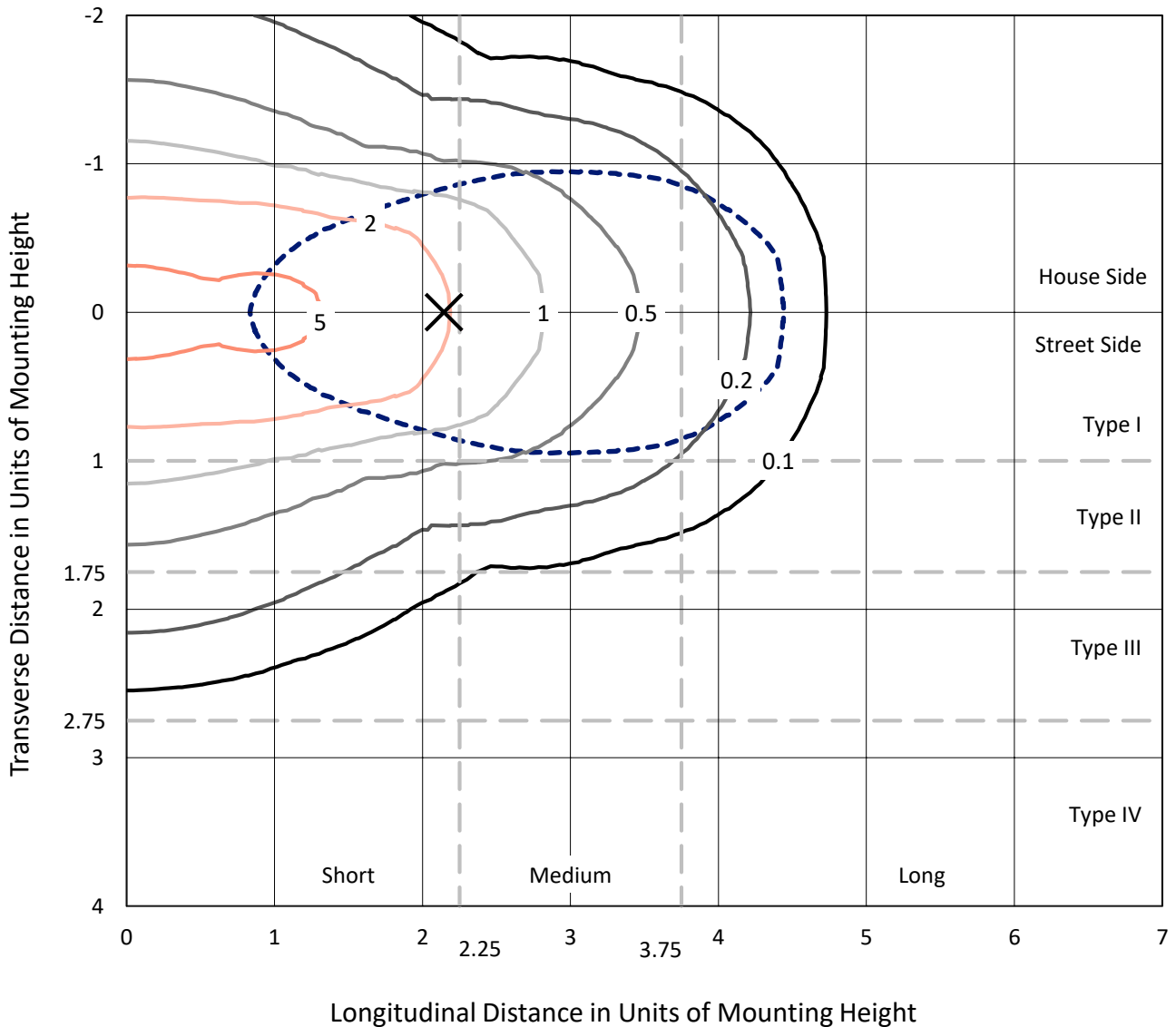
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

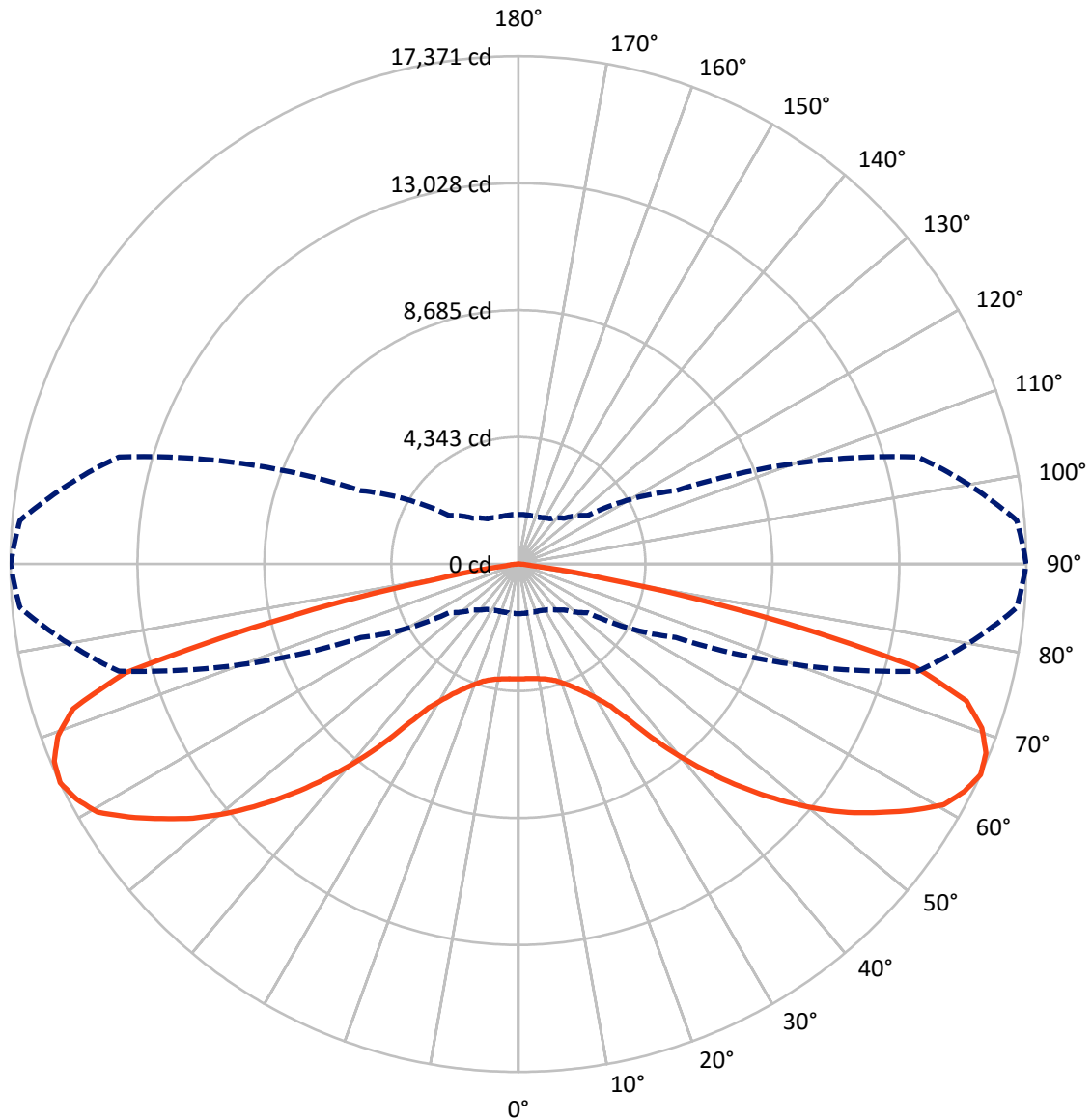
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Short - N/A

REPORT NUMBER: P510011
CATALOG NUMBER: VERD-M-CA4-190-722-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	11954.0	0.0	11954.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11954.0	0.0	11954.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23908.0	0.0	23908.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	1.6
10°-20°	1111.5	4.6
20°-30°	1835.1	7.7
30°-40°	2688.9	11.2
40°-50°	3922.3	16.4
50°-60°	5078.1	21.2
60°-70°	5350.1	22.4
70°-80°	3265.4	13.7
80°-90°	282.3	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°	23908.0	100.0
0°-180°	23908.0	100.0



REPORT NUMBER: P510011

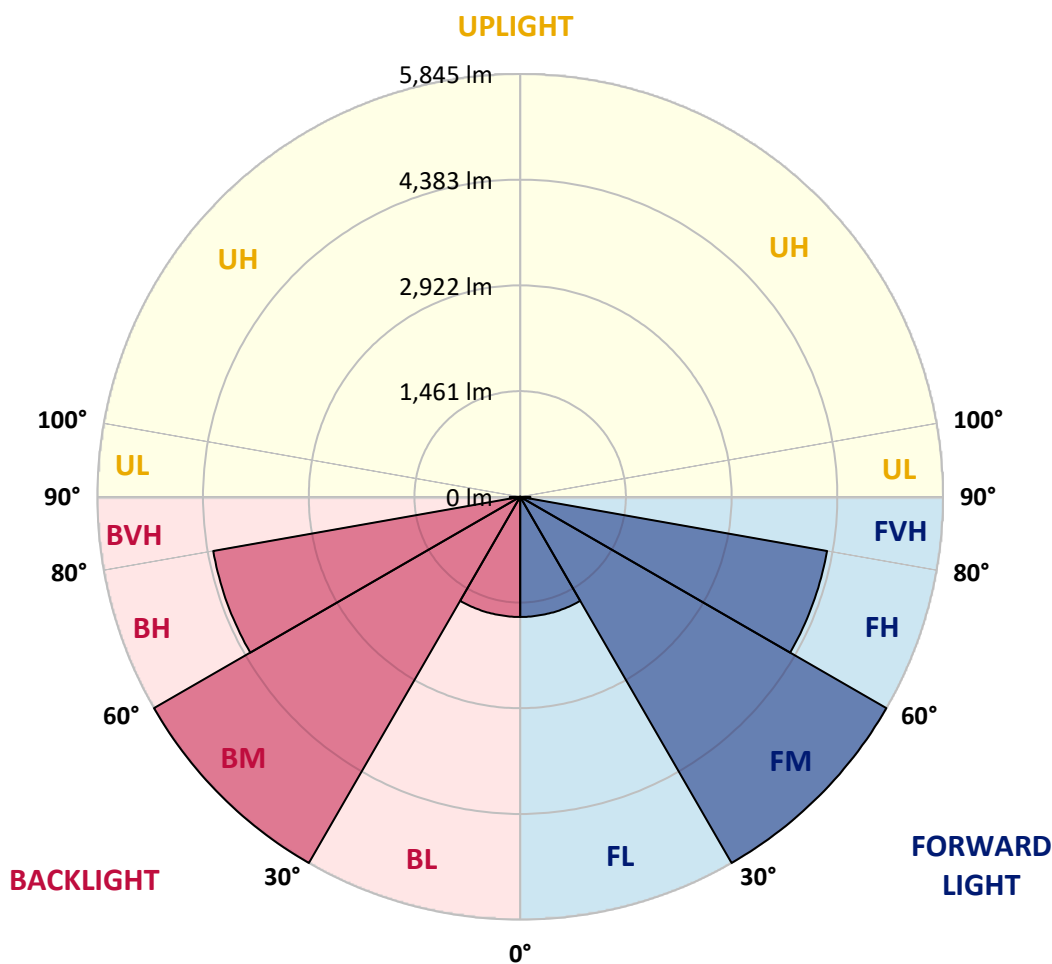
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1660.5	6.9			
FM	(30°-60°)	5844.6	24.4			
FH	(60°-80°)	4307.7	18.0			G2/5000
FVH	(80°-90°)	141.1	0.6			G2/225
BL	(0°-30°)	1660.5	6.9	B3/2500		
BM	(30°-60°)	5844.6	24.4	B4/8500		
BH	(60°-80°)	4307.7	18.0	B4/5000		G4/5000
BVH	(80°-90°)	141.1	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°	3933.4	3933.4	3933.4	3933.4	3933.4	3933.4	3933.4	3933.4	3933.4	3933.4	3933.4
2.5°	3900.8	3932.4	3937.5	3924.2	3925.3	3923.2	3931.4	3934.4	3938.5	3932.4	3929.3
5°	3894.7	3922.2	3927.3	3921.2	3929.3	3927.3	3931.4	3938.5	3937.5	3935.4	3935.4
7.5°	3862.1	3882.5	3898.8	3894.7	3896.7	3910.0	3924.2	3947.7	3958.9	3958.9	3956.8
10°	3819.4	3840.7	3868.2	3862.1	3875.4	3902.9	3931.4	3955.8	3984.3	3990.4	3990.4
12.5°	3773.5	3803.1	3829.5	3835.7	3866.2	3897.8	3949.7	3987.4	4020.0	4034.2	4033.2
15°	3712.4	3737.9	3769.5	3791.9	3840.7	3909.0	3977.2	4035.2	4082.1	4101.4	4104.5
17.5°	3631.0	3658.5	3692.1	3738.9	3824.5	3922.2	4028.1	4106.5	4177.8	4198.1	4198.1
20°	3524.1	3553.6	3594.3	3666.6	3782.7	3935.4	4077.0	4200.2	4292.8	4340.7	4347.8
22.5°	3358.1	3390.7	3456.9	3582.1	3734.8	3933.4	4135.0	4310.1	4449.6	4511.8	4518.9
25°	3173.8	3215.6	3309.2	3474.2	3675.8	3931.4	4193.1	4434.4	4620.7	4716.4	4736.8
27.5°	3010.9	3050.6	3165.7	3369.3	3620.8	3935.4	4251.1	4576.9	4845.7	4983.2	5000.5
30°	2851.0	2886.7	3015.0	3257.3	3569.9	3940.5	4325.4	4740.9	5101.3	5311.1	5352.8
32.5°	2719.7	2755.3	2879.5	3138.2	3507.8	3951.7	4420.1	4959.8	5456.7	5770.3	5796.8
35°	2604.6	2645.3	2754.3	3018.0	3425.3	3968.0	4539.2	5246.9	5965.8	6544.1	6574.7
37.5°	2504.8	2537.4	2634.1	2890.7	3338.8	3971.1	4677.7	5583.9	6623.6	7477.8	7686.6
40°	2438.6	2461.0	2535.4	2773.6	3224.7	3945.6	4836.6	5960.7	7356.7	8562.3	8800.5
42.5°	2378.6	2398.9	2458.0	2665.7	3105.6	3896.7	4984.2	6347.6	8090.8	9670.1	9895.1
45°	2306.3	2322.6	2382.6	2574.1	2989.5	3821.4	5106.4	6706.0	8850.4	10783.0	10994.8
47.5°	2247.2	2259.4	2310.4	2491.6	2860.2	3700.2	5158.3	7030.8	9665.0	11812.4	12075.1
50°	2206.5	2202.4	2247.2	2406.1	2727.8	3531.2	5114.5	7271.1	10523.4	12842.9	13125.9
52.5°	2136.2	2140.3	2183.1	2317.5	2617.9	3322.5	4943.5	7440.2	11386.8	13783.7	14118.7
55°	2063.9	2070.1	2103.7	2224.8	2501.8	3123.9	4626.8	7463.6	12290.0	14767.3	14995.4
57.5°	1986.6	1989.6	2018.1	2125.0	2372.5	2918.2	4227.7	7314.9	13128.0	15669.5	15885.3
60°	1918.3	1919.4	1938.7	2021.2	2228.9	2696.3	3763.4	7016.6	13803.1	16361.9	16713.1
62.5°	1826.7	1826.7	1838.9	1908.2	2082.3	2467.2	3317.4	6554.3	14171.7	16866.9	17122.5
65°	1695.3	1697.4	1709.6	1754.4	1889.8	2217.7	2898.9	5943.4	14149.3	17114.3	17370.9
67.5°	1443.8	1438.8	1512.1	1585.4	1691.3	1965.2	2488.5	5343.6	13636.1	17008.4	17248.7
70°	1045.7	1038.6	1081.4	1185.2	1440.8	1641.4	2114.9	4842.7	12161.7	16612.3	16811.9
72.5°	858.4	862.4	864.5	851.2	964.3	1328.8	1766.6	4259.2	10034.6	15397.6	16018.7
75°	679.2	669.0	680.2	690.4	720.9	778.9	1429.6	3546.5	8143.8	12911.1	13958.8
77.5°	428.7	422.6	421.5	427.7	467.4	493.8	875.7	2599.5	5666.4	8167.2	8236.4
80°	298.3	297.3	298.3	306.5	319.7	325.8	485.7	1424.5	2853.1	2974.2	2921.3
82.5°	211.8	204.7	198.6	213.8	206.7	200.6	292.2	652.7	769.8	524.4	425.6
85°	104.9	106.9	90.6	115.1	107.9	104.9	114.0	124.2	115.1	214.8	243.4
87.5°	29.5	28.5	31.6	36.7	35.6	40.7	36.7	39.7	46.8	81.5	80.4
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)