

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: P509971

Luminaire Tested: **VERD-M-CA3-180-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509971
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-CA3-180-727-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1120mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22925 lumens
Efficiency: N/A
Efficacy: 125.2 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

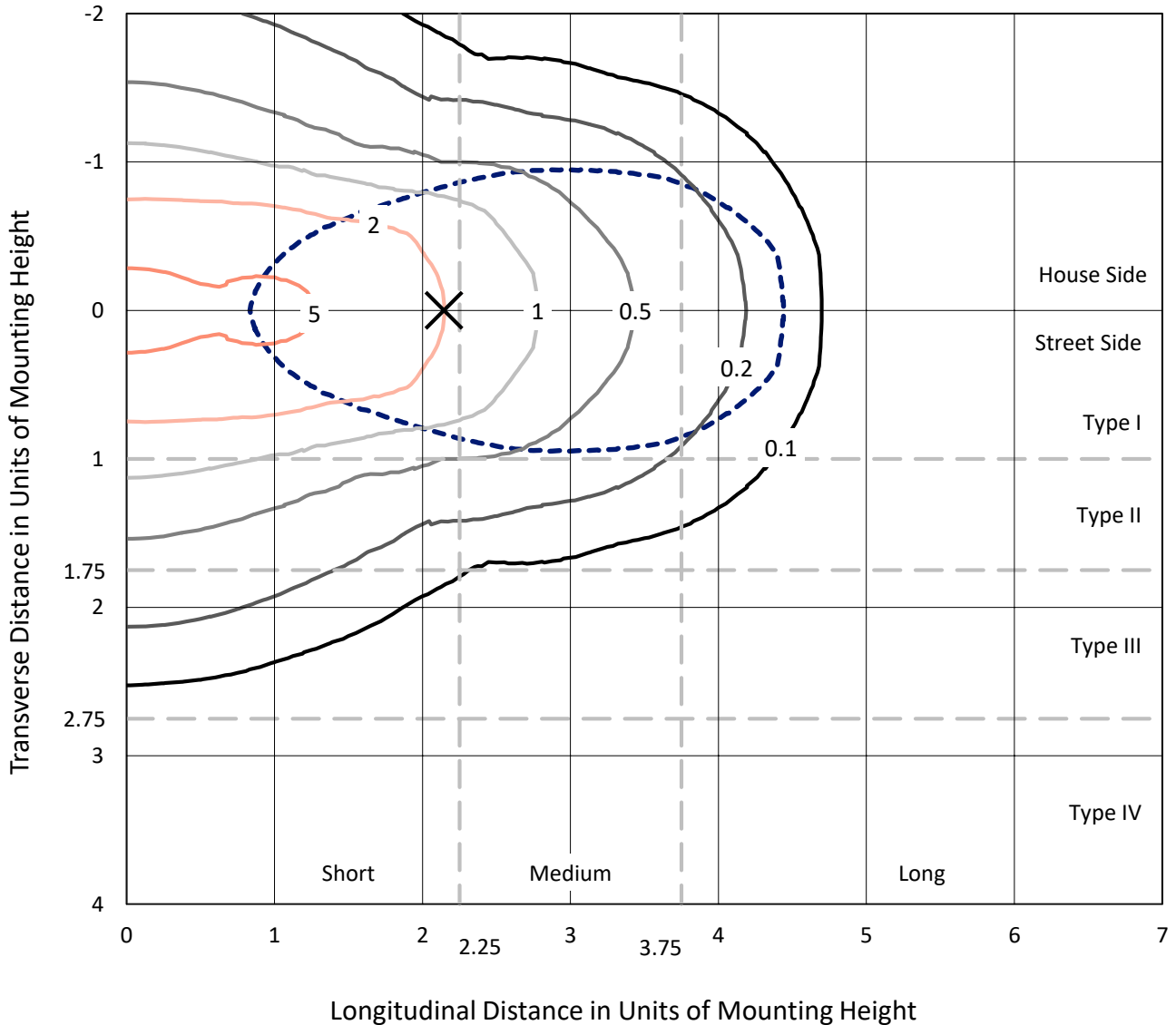
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

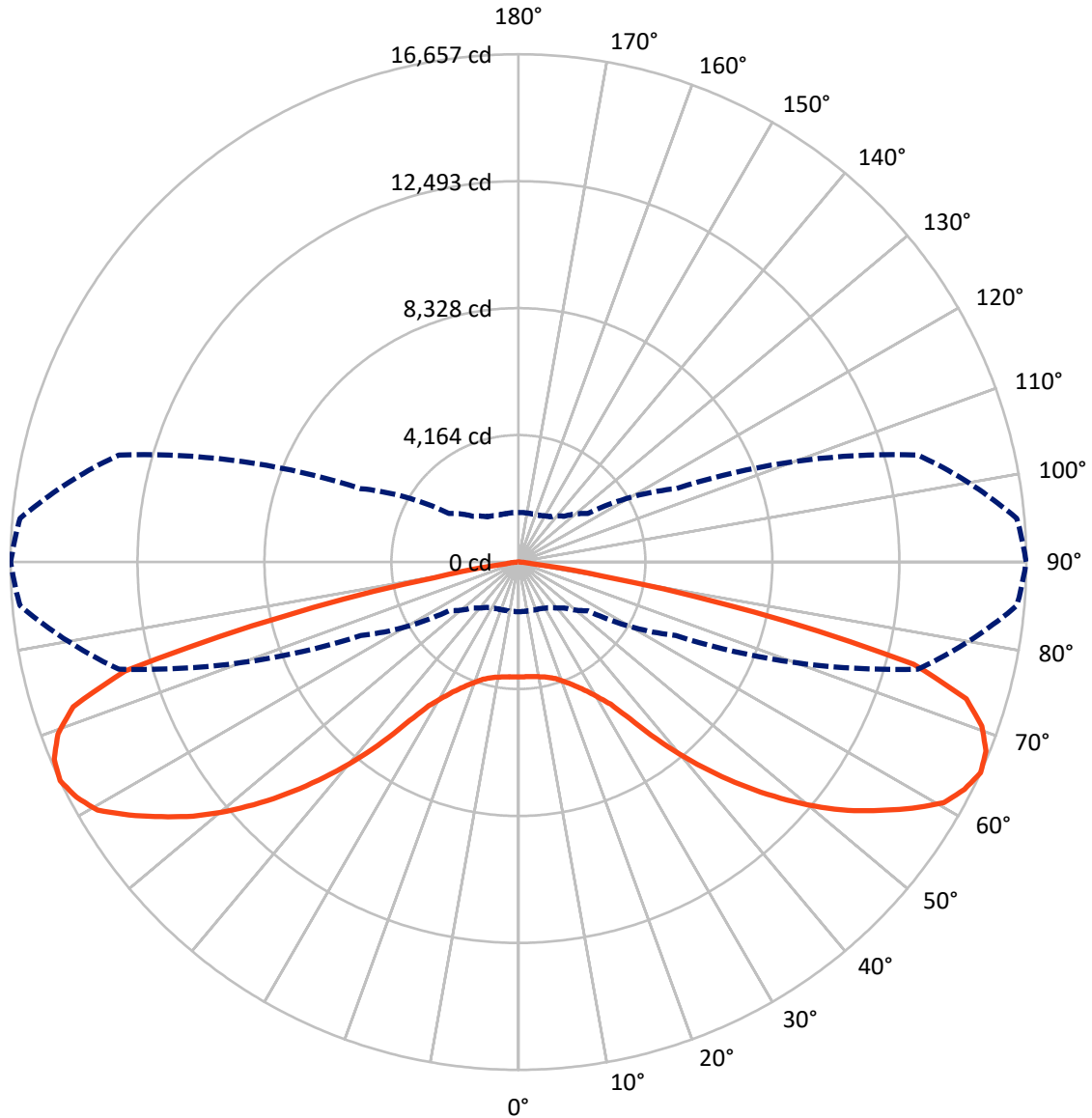
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	11462.5	0.0	11462.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11462.5	0.0	11462.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22925.0	0.0	22925.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	1.6
10°-20°	1065.8	4.6
20°-30°	1759.6	7.7
30°-40°	2578.4	11.2
40°-50°	3761.0	16.4
50°-60°	4869.3	21.2
60°-70°	5130.1	22.4
70°-80°	3131.1	13.7
80°-90°	270.7	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°	22925.0	100.0
0°-180°	22925.0	100.0



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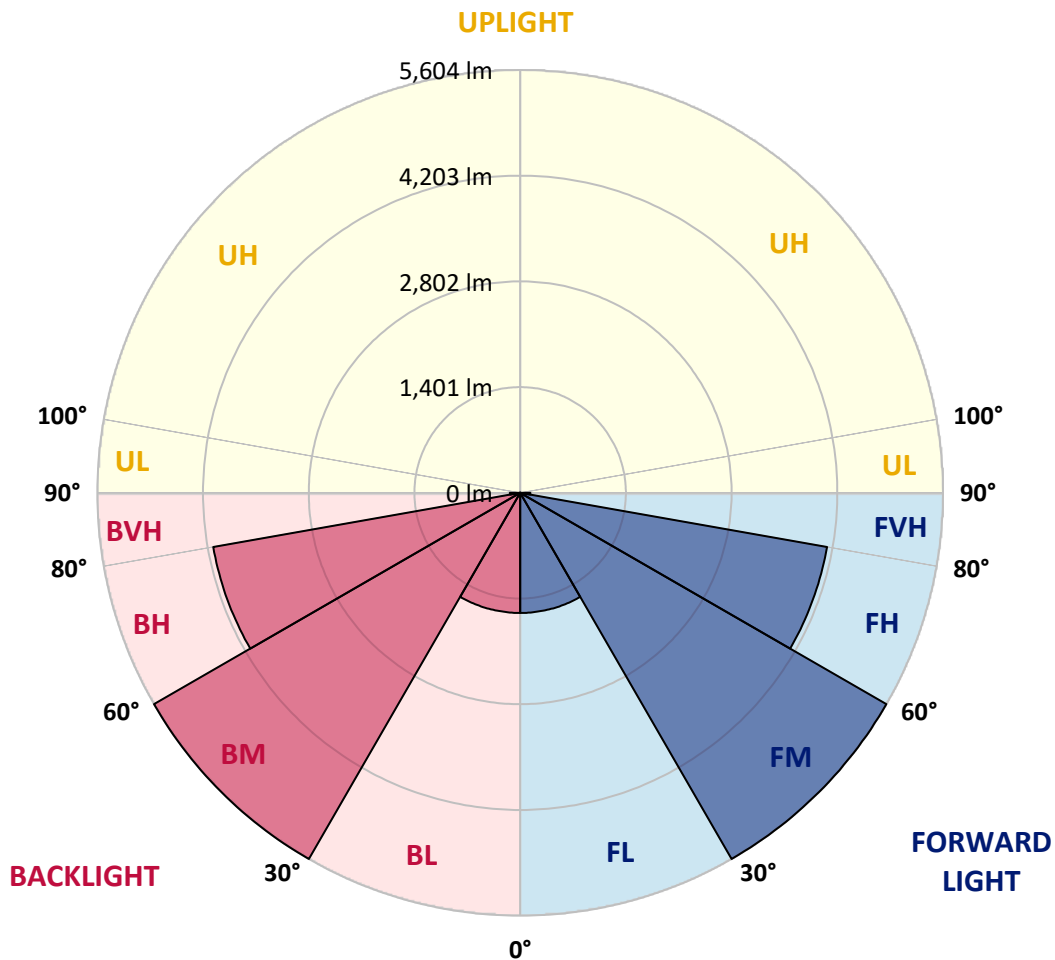
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.2	6.9			
FM (30°-60°)	5604.3	24.4			
FH (60°-80°)	4130.6	18.0			G2/5000
FVH (80°-90°)	135.3	0.6			G2/225
BL (0°-30°)	1592.2	6.9	B3/2500		
BM (30°-60°)	5604.3	24.4	B4/8500		
BH (60°-80°)	4130.6	18.0	B4/5000		G4/5000
BVH (80°-90°)	135.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3771.7	3771.7	3771.7	3771.7	3771.7	3771.7	3771.7	3771.7	3771.7	3771.7	3771.7
2.5°	3740.4	3770.7	3775.6	3762.9	3763.9	3761.9	3769.7	3772.7	3776.6	3770.7	3767.8
5°	3734.6	3760.9	3765.8	3760.0	3767.8	3765.8	3769.7	3776.6	3775.6	3773.6	3773.6
7.5°	3703.3	3722.9	3738.5	3734.6	3736.5	3749.2	3762.9	3785.3	3796.1	3796.1	3794.1
10°	3662.3	3682.8	3709.2	3703.3	3716.0	3742.4	3769.7	3793.2	3820.5	3826.4	3826.4
12.5°	3618.4	3646.7	3672.1	3677.9	3707.2	3737.5	3787.3	3823.4	3854.7	3868.3	3867.4
15°	3559.8	3584.2	3614.5	3636.0	3682.8	3748.2	3813.7	3869.3	3914.2	3932.8	3935.7
17.5°	3481.7	3508.1	3540.3	3585.2	3667.2	3760.9	3862.5	3937.7	4006.0	4025.5	4025.5
20°	3379.2	3407.5	3446.5	3515.9	3627.2	3773.6	3909.3	4027.5	4116.3	4162.2	4169.1
22.5°	3220.0	3251.3	3314.7	3434.8	3581.3	3771.7	3965.0	4132.9	4266.7	4326.2	4333.1
25°	3043.3	3083.3	3173.2	3331.3	3524.7	3769.7	4020.6	4252.0	4430.7	4522.5	4542.0
27.5°	2887.1	2925.2	3035.5	3230.8	3471.9	3773.6	4076.3	4388.7	4646.5	4778.3	4794.9
30°	2733.8	2768.0	2891.0	3123.4	3423.1	3778.5	4147.6	4545.9	4891.6	5092.7	5132.7
32.5°	2607.9	2642.0	2761.1	3009.1	3363.6	3789.3	4238.4	4755.8	5232.3	5533.0	5558.4
35°	2497.5	2536.6	2641.1	2893.9	3284.5	3804.9	4352.6	5031.2	5720.5	6275.1	6304.4
37.5°	2401.8	2433.1	2525.8	2771.9	3201.5	3807.8	4485.4	5354.4	6351.2	7170.4	7370.5
40°	2338.4	2359.9	2431.1	2659.6	3092.1	3783.4	4637.7	5715.6	7054.2	8210.2	8438.7
42.5°	2280.8	2300.3	2356.9	2556.1	2977.9	3736.5	4779.3	6086.6	7758.2	9272.5	9488.3
45°	2211.5	2227.1	2284.7	2468.2	2866.6	3664.3	4896.4	6430.3	8486.5	10339.6	10542.7
47.5°	2154.8	2166.5	2215.4	2389.2	2742.6	3548.1	4946.2	6741.8	9267.6	11326.7	11578.7
50°	2115.8	2111.9	2154.8	2307.1	2615.7	3386.0	4904.3	6972.2	10090.7	12314.8	12586.3
52.5°	2048.4	2052.3	2093.3	2222.2	2510.2	3185.9	4740.2	7134.3	10918.6	13217.0	13538.2
55°	1979.1	1984.9	2017.2	2133.3	2398.9	2995.5	4436.6	7156.7	11784.7	14160.1	14378.8
57.5°	1904.9	1907.8	1935.1	2037.7	2274.9	2798.2	4053.8	7014.2	12588.2	15025.2	15232.2
60°	1839.5	1840.4	1859.0	1938.1	2137.3	2585.4	3608.6	6728.1	13235.5	15689.1	16026.0
62.5°	1751.6	1751.6	1763.3	1829.7	1996.7	2365.7	3181.0	6284.8	13589.0	16173.4	16418.5
65°	1625.6	1627.6	1639.3	1682.3	1812.1	2126.5	2779.7	5699.0	13567.5	16410.7	16656.7
67.5°	1384.5	1379.6	1449.9	1520.2	1621.7	1884.4	2386.2	5123.9	13075.4	16309.1	16539.5
70°	1002.7	995.9	1036.9	1136.5	1381.5	1573.9	2027.9	4643.6	11661.6	15929.3	16120.7
72.5°	823.1	827.0	828.9	816.2	924.6	1274.1	1694.0	4084.1	9622.0	14764.5	15360.1
75°	651.2	641.5	652.2	662.0	691.3	746.9	1370.8	3400.7	7808.9	12380.2	13384.9
77.5°	411.0	405.2	404.2	410.1	448.1	473.5	839.7	2492.6	5433.4	7831.4	7897.8
80°	286.1	285.1	286.1	293.9	306.6	312.4	465.7	1365.9	2735.8	2851.9	2801.2
82.5°	203.1	196.2	190.4	205.0	198.2	192.3	280.2	625.8	738.1	502.8	408.1
85°	100.6	102.5	86.9	110.3	103.5	100.6	109.4	119.1	110.3	206.0	233.3
87.5°	28.3	27.3	30.3	35.1	34.2	39.1	35.1	38.1	44.9	78.1	77.1
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)