

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: P509859

Luminaire Tested: **VERD-M-CA3-150-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509859
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-CA3-150-760-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 940mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23404 lumens
Efficiency: N/A
Efficacy: 153.0 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

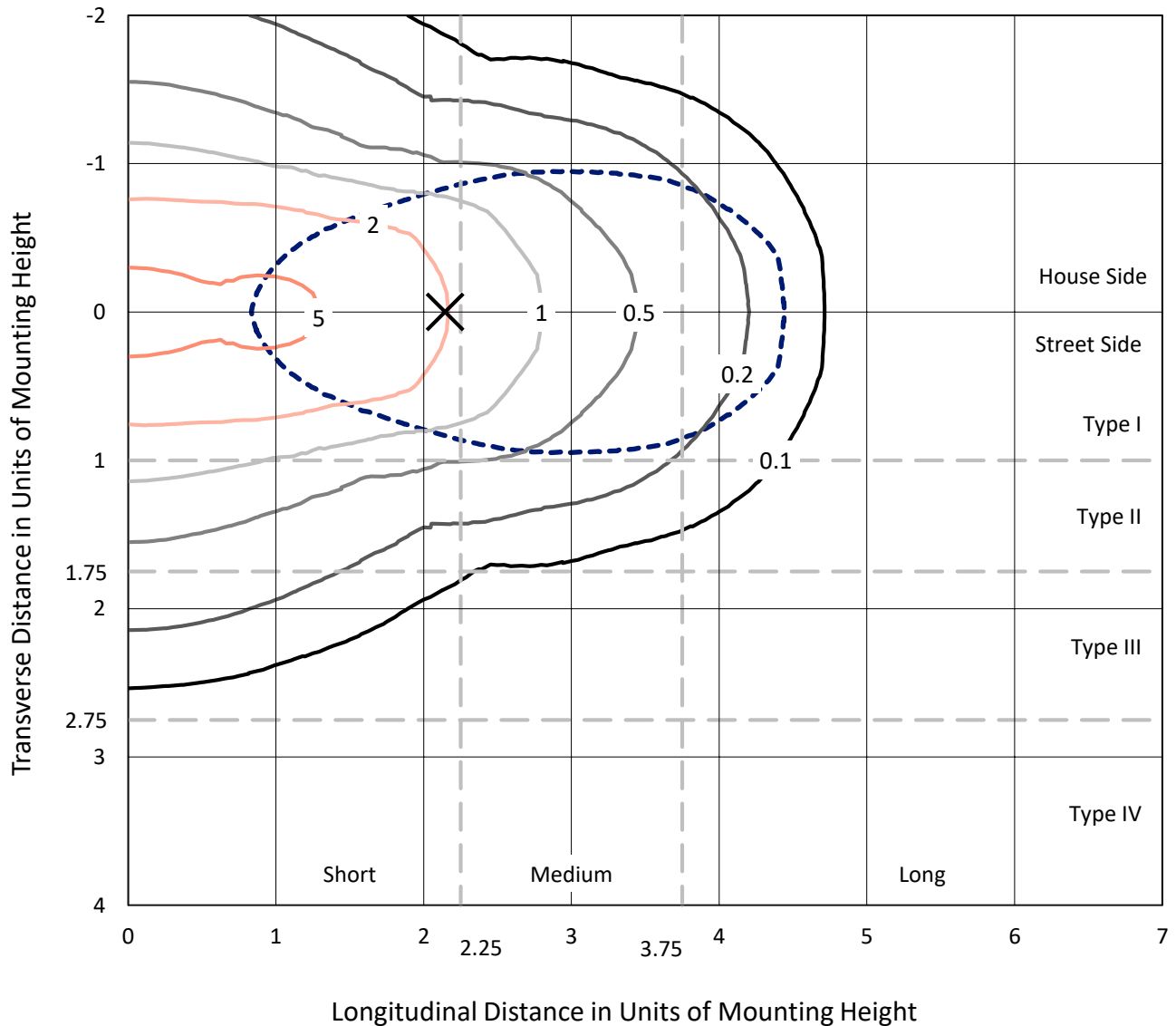
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

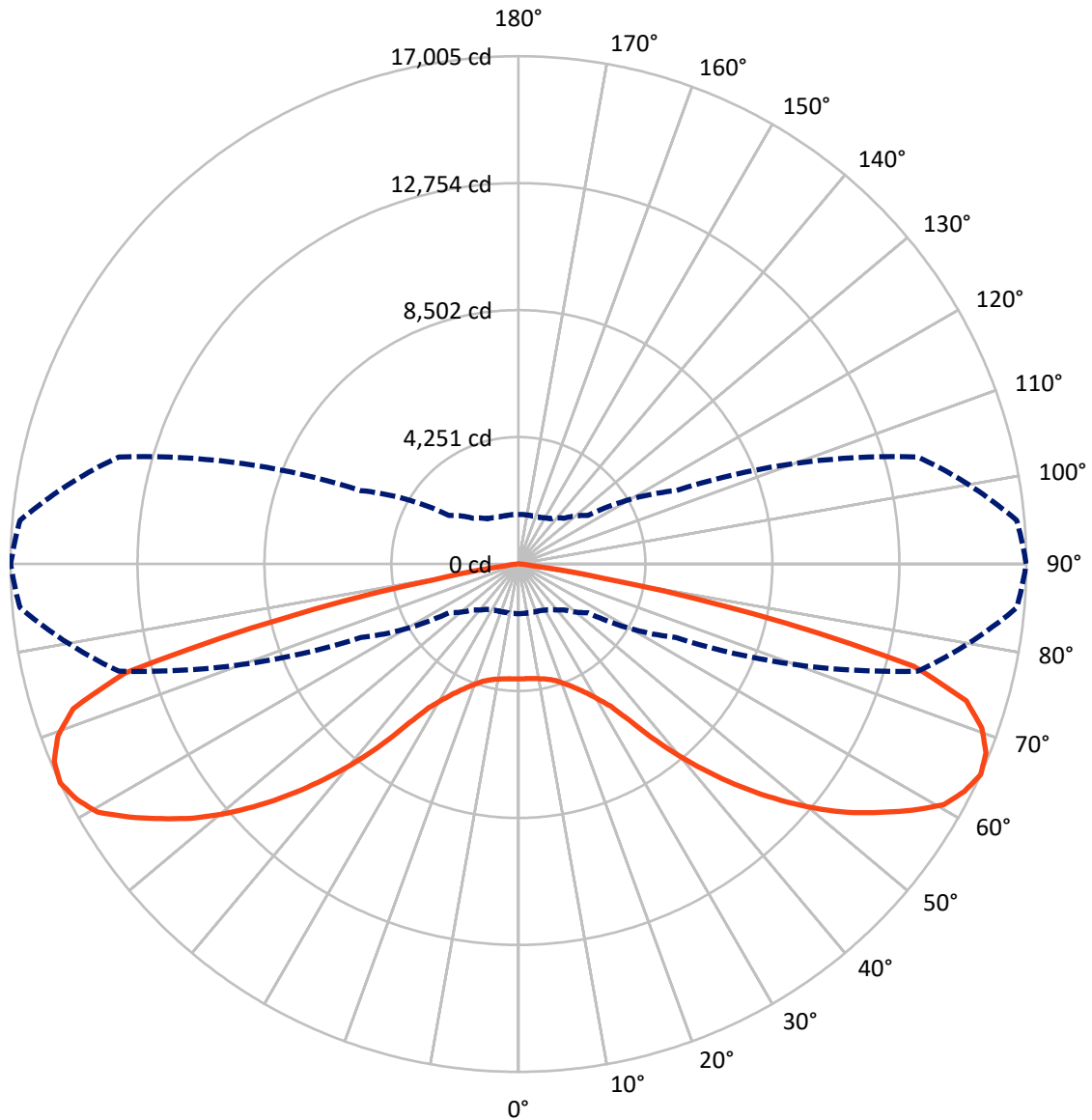
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	11702.0	0.0	11702.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11702.0	0.0	11702.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23404.0	0.0	23404.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	1.6
10°-20°	1088.1	4.6
20°-30°	1796.4	7.7
30°-40°	2632.2	11.2
40°-50°	3839.6	16.4
50°-60°	4971.0	21.2
60°-70°	5237.3	22.4
70°-80°	3196.5	13.7
80°-90°	276.3	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°	23404.0	100.0
0°-180°	23404.0	100.0



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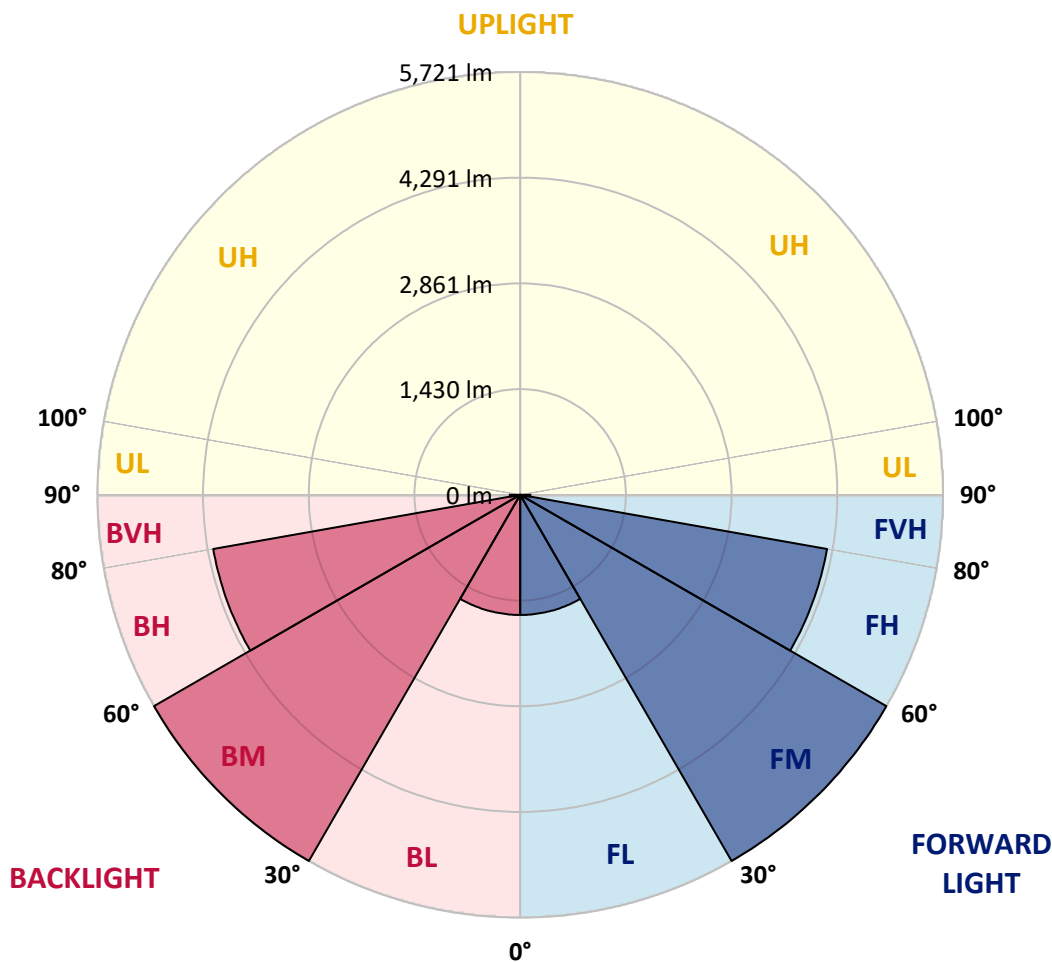
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.5	6.9			
FM	(30°-60°)	5721.4	24.4			
FH	(60°-80°)	4216.9	18.0			G2/5000
FVH	(80°-90°)	138.2	0.6			G2/225
BL	(0°-30°)	1625.5	6.9	B3/2500		
BM	(30°-60°)	5721.4	24.4	B4/8500		
BH	(60°-80°)	4216.9	18.0	B4/5000		G4/5000
BVH	(80°-90°)	138.2	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°	3850.5	3850.5	3850.5	3850.5	3850.5	3850.5	3850.5	3850.5	3850.5	3850.5	3850.5
2.5°	3818.6	3849.5	3854.5	3841.5	3842.5	3840.5	3848.5	3851.5	3855.5	3849.5	3846.5
5°	3812.6	3839.5	3844.5	3838.5	3846.5	3844.5	3848.5	3855.5	3854.5	3852.5	3852.5
7.5°	3780.7	3800.6	3816.6	3812.6	3814.6	3827.6	3841.5	3864.4	3875.4	3875.4	3873.4
10°	3738.8	3759.8	3786.7	3780.7	3793.7	3820.6	3848.5	3872.4	3900.3	3906.3	3906.3
12.5°	3694.0	3722.9	3748.8	3754.8	3784.7	3815.6	3866.4	3903.3	3935.2	3949.2	3948.2
15°	3634.2	3659.1	3690.0	3711.9	3759.8	3826.6	3893.3	3950.2	3996.0	4014.9	4017.9
17.5°	3554.4	3581.4	3614.3	3660.1	3743.8	3839.5	3943.2	4019.9	4089.7	4109.6	4109.6
20°	3449.8	3478.7	3518.6	3589.3	3703.0	3852.5	3991.0	4111.6	4202.3	4249.2	4256.2
22.5°	3287.3	3319.2	3384.0	3506.6	3656.1	3850.5	4047.8	4219.3	4355.8	4416.6	4423.6
25°	3106.9	3147.8	3239.5	3400.9	3598.3	3848.5	4104.7	4340.9	4523.3	4617.0	4636.9
27.5°	2947.4	2986.3	3098.9	3298.3	3544.5	3852.5	4161.5	4480.4	4743.6	4878.1	4895.1
30°	2790.9	2825.8	2951.4	3188.6	3494.6	3857.5	4234.2	4640.9	4993.8	5199.1	5240.0
32.5°	2662.3	2697.2	2818.8	3072.0	3433.8	3868.4	4326.9	4855.2	5341.6	5648.6	5674.6
35°	2549.7	2589.6	2696.2	2954.4	3353.1	3884.4	4443.6	5136.3	5840.0	6406.2	6436.1
37.5°	2452.0	2483.9	2578.6	2829.8	3268.4	3887.4	4579.1	5466.2	6483.9	7320.2	7524.5
40°	2387.2	2409.2	2481.9	2715.2	3156.7	3862.4	4734.6	5835.0	7201.6	8381.8	8615.0
42.5°	2328.4	2348.4	2406.2	2609.5	3040.1	3814.6	4879.1	6213.8	7920.3	9466.2	9686.5
45°	2257.7	2273.6	2332.4	2519.8	2926.5	3740.8	4998.8	6564.7	8663.8	10555.7	10763.0
47.5°	2199.8	2211.8	2261.6	2439.1	2799.9	3622.2	5049.6	6882.6	9461.2	11563.4	11820.6
50°	2160.0	2156.0	2199.8	2355.3	2670.3	3456.8	5006.7	7117.9	10301.5	12572.1	12849.2
52.5°	2091.2	2095.2	2137.1	2268.6	2562.7	3252.4	4839.3	7283.3	11146.8	13493.1	13821.1
55°	2020.4	2026.4	2059.3	2177.9	2449.0	3058.1	4529.3	7306.3	12030.9	14456.0	14679.3
57.5°	1944.7	1947.7	1975.6	2080.2	2322.5	2856.7	4138.5	7160.7	12851.2	15339.1	15550.5
60°	1877.9	1878.9	1897.8	1978.6	2181.9	2639.4	3684.0	6868.7	13512.1	16016.9	16360.8
62.5°	1788.2	1788.2	1800.1	1867.9	2038.4	2415.1	3247.4	6416.1	13872.9	16511.3	16761.5
65°	1659.6	1661.6	1673.6	1717.4	1850.0	2170.9	2837.8	5818.1	13851.0	16753.5	17004.7
67.5°	1413.4	1408.4	1480.2	1552.0	1655.6	1923.7	2436.1	5231.0	13348.6	16649.9	16885.1
70°	1023.7	1016.7	1058.6	1160.2	1410.4	1606.8	2070.3	4740.6	11905.3	16262.1	16457.5
72.5°	840.3	844.3	846.2	833.3	943.9	1300.8	1729.4	4169.4	9823.1	15073.0	15681.0
75°	664.8	654.9	665.8	675.8	705.7	762.5	1399.5	3471.7	7972.1	12638.9	13664.6
77.5°	419.6	413.7	412.7	418.6	457.5	483.4	857.2	2544.7	5547.0	7995.0	8062.8
80°	292.1	291.1	292.1	300.0	313.0	319.0	475.5	1394.5	2792.9	2911.5	2859.7
82.5°	207.3	200.3	194.4	209.3	202.3	196.4	286.1	638.9	753.6	513.3	416.6
85°	102.7	104.7	88.7	112.6	105.7	102.7	111.6	121.6	112.6	210.3	238.2
87.5°	28.9	27.9	30.9	35.9	34.9	39.9	35.9	38.9	45.9	79.7	78.7
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)