

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: P509867

Luminaire Tested: **VERD-M-CA3-160-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509867
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-CA3-160-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20164 lumens
Efficiency: N/A
Efficacy: 123.9 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

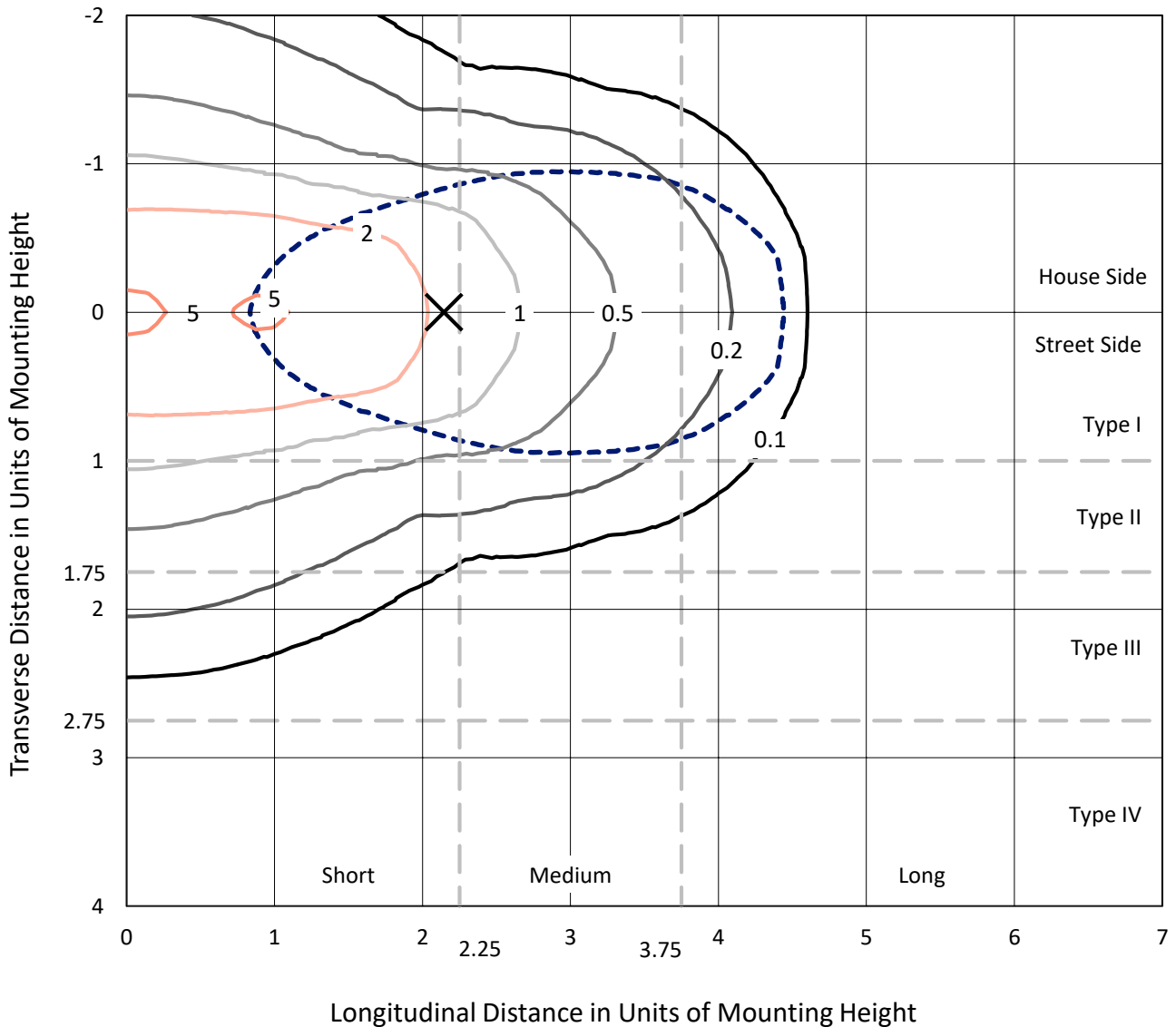
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

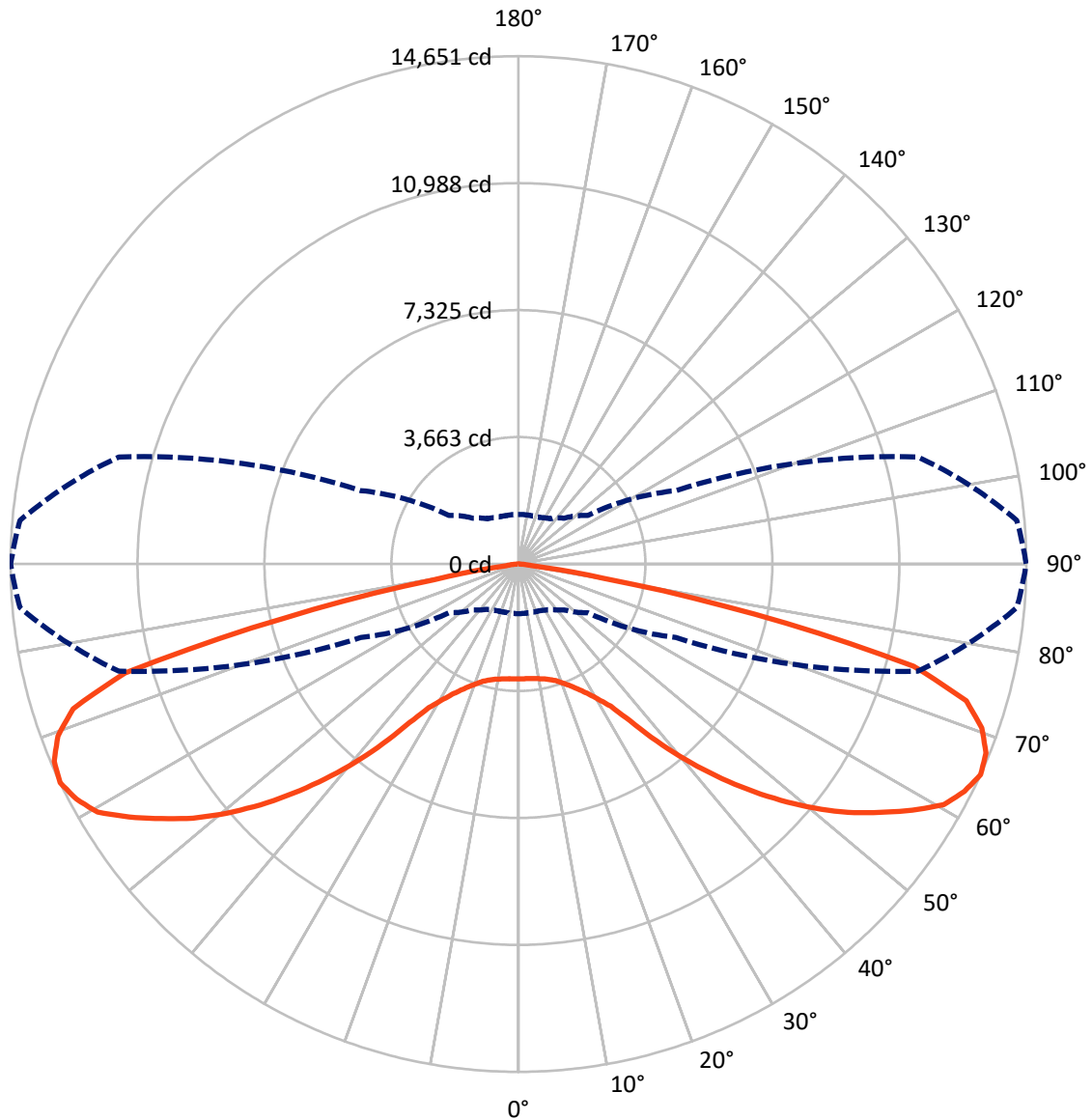
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	10082.0	0.0	10082.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10082.0	0.0	10082.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20164.0	0.0	20164.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	1.6
10°-20°	937.5	4.6
20°-30°	1547.7	7.7
30°-40°	2267.8	11.2
40°-50°	3308.1	16.4
50°-60°	4282.8	21.2
60°-70°	4512.3	22.4
70°-80°	2754.0	13.7
80°-90°	238.1	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°	20164.0	100.0
0°-180°	20164.0	100.0



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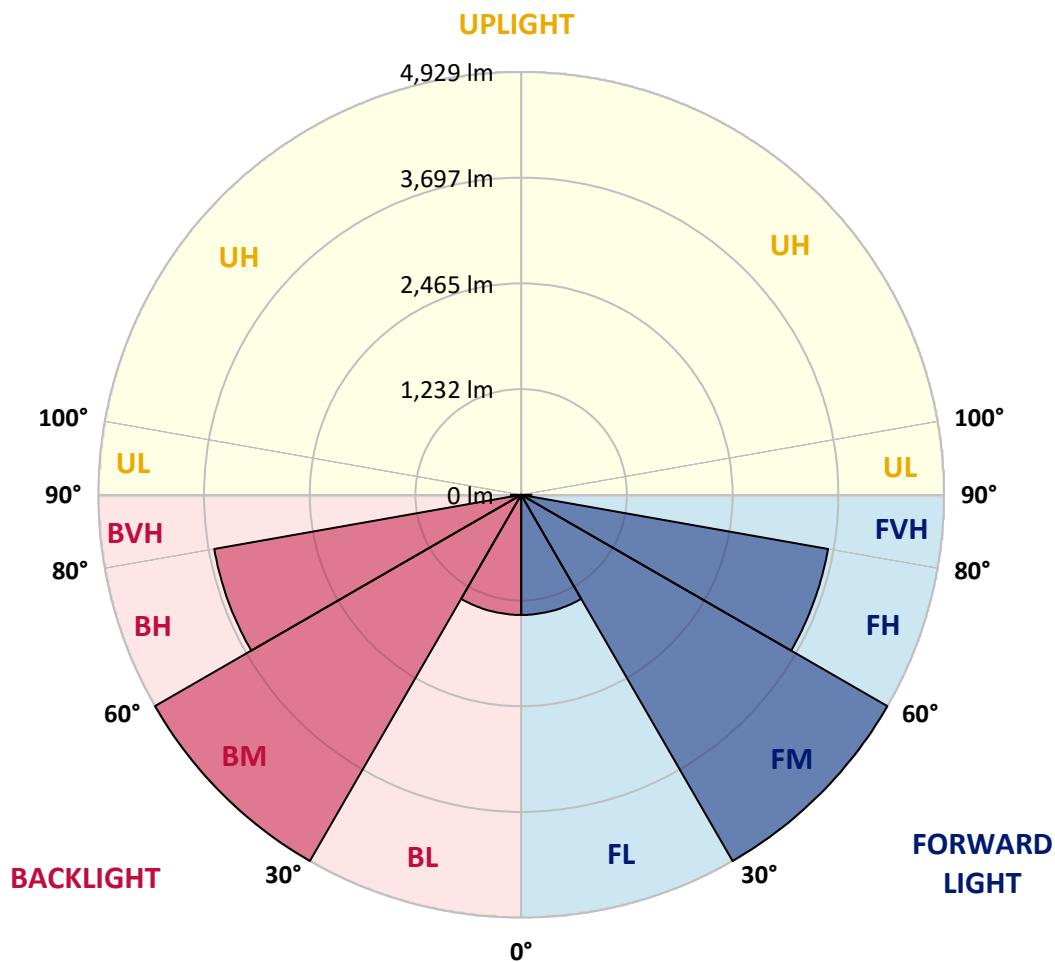
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.5	6.9			
FM (30°-60°)	4929.4	24.4			
FH (60°-80°)	3633.1	18.0			G2/5000
FVH (80°-90°)	119.0	0.6			G2/225
BL (0°-30°)	1400.5	6.9	B3/2500		
BM (30°-60°)	4929.4	24.4	B3/5000		
BH (60°-80°)	3633.1	18.0	B4/5000		G4/5000
BVH (80°-90°)	119.0	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°	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4
2.5°	3290.0	3316.6	3320.9	3309.7	3310.6	3308.8	3315.7	3318.3	3321.7	3316.6	3314.0
5°	3284.8	3308.0	3312.3	3307.1	3314.0	3312.3	3315.7	3321.7	3320.9	3319.1	3319.1
7.5°	3257.3	3274.5	3288.2	3284.8	3286.5	3297.7	3309.7	3329.5	3338.9	3338.9	3337.2
10°	3221.2	3239.3	3262.5	3257.3	3268.5	3291.7	3315.7	3336.3	3360.4	3365.5	3365.5
12.5°	3182.6	3207.5	3229.8	3235.0	3260.8	3287.4	3331.2	3362.9	3390.4	3402.4	3401.6
15°	3131.1	3152.5	3179.2	3198.1	3239.3	3296.8	3354.4	3403.3	3442.8	3459.1	3461.7
17.5°	3062.4	3085.6	3113.9	3153.4	3225.5	3308.0	3397.3	3463.4	3523.5	3540.7	3540.7
20°	2972.2	2997.1	3031.5	3092.4	3190.3	3319.1	3438.5	3542.4	3620.6	3660.9	3667.0
22.5°	2832.2	2859.7	2915.5	3021.2	3150.0	3317.4	3487.5	3635.2	3752.8	3805.2	3811.2
25°	2676.8	2712.0	2791.0	2930.1	3100.2	3315.7	3536.4	3739.9	3897.1	3977.8	3995.0
27.5°	2539.4	2572.9	2669.9	2841.7	3053.8	3319.1	3585.4	3860.2	4086.9	4202.8	4217.4
30°	2404.6	2434.6	2542.8	2747.2	3010.8	3323.4	3648.1	3998.4	4302.4	4479.3	4514.6
32.5°	2293.8	2323.8	2428.6	2646.7	2958.5	3332.9	3727.9	4183.1	4602.2	4866.7	4889.0
35°	2196.7	2231.1	2323.0	2545.4	2888.9	3346.6	3828.4	4425.2	5031.5	5519.3	5545.1
37.5°	2112.6	2140.1	2221.6	2438.0	2815.9	3349.2	3945.2	4709.5	5586.3	6306.8	6482.9
40°	2056.8	2075.6	2138.3	2339.3	2719.7	3327.7	4079.2	5027.2	6204.6	7221.4	7422.4
42.5°	2006.1	2023.3	2073.1	2248.3	2619.3	3286.5	4203.7	5353.6	6823.8	8155.7	8345.5
45°	1945.1	1958.9	2009.5	2171.0	2521.4	3223.0	4306.7	5655.9	7464.4	9094.4	9273.0
47.5°	1895.3	1905.6	1948.6	2101.4	2412.3	3120.8	4350.5	5929.8	8151.5	9962.6	10184.2
50°	1861.0	1857.5	1895.3	2029.3	2300.6	2978.2	4313.6	6132.5	8875.4	10831.7	11070.4
52.5°	1801.7	1805.1	1841.2	1954.6	2207.9	2802.2	4169.3	6275.0	9603.6	11625.2	11907.7
55°	1740.7	1745.9	1774.2	1876.4	2110.0	2634.7	3902.3	6294.8	10365.4	12454.8	12647.1
57.5°	1675.5	1678.0	1702.1	1792.3	2000.9	2461.2	3565.6	6169.4	11072.1	13215.6	13397.7
60°	1617.9	1618.8	1635.1	1704.7	1879.8	2274.0	3174.0	5917.8	11641.5	13799.6	14095.9
62.5°	1540.6	1540.6	1550.9	1609.3	1756.2	2080.8	2797.9	5527.9	11952.4	14225.5	14441.1
65°	1429.9	1431.6	1441.9	1479.7	1593.9	1870.4	2444.9	5012.6	11933.5	14434.2	14650.6
67.5°	1217.7	1213.4	1275.3	1337.1	1426.4	1657.4	2098.8	4506.8	11500.7	14344.9	14547.6
70°	882.0	875.9	912.0	999.6	1215.2	1384.3	1783.7	4084.3	10257.2	14010.8	14179.2
72.5°	723.9	727.4	729.1	717.9	813.3	1120.7	1490.0	3592.2	8463.2	12986.3	13510.2
75°	572.8	564.2	573.7	582.2	608.0	657.0	1205.7	2991.1	6868.4	10889.2	11772.9
77.5°	361.5	356.4	355.5	360.7	394.2	416.5	738.5	2192.4	4779.1	6888.2	6946.6
80°	251.6	250.8	251.6	258.5	269.7	274.8	409.6	1201.4	2406.3	2508.5	2463.8
82.5°	178.6	172.6	167.5	180.3	174.3	169.2	246.5	550.5	649.2	442.3	359.0
85°	88.5	90.2	76.4	97.0	91.0	88.5	96.2	104.8	97.0	181.2	205.2
87.5°	24.9	24.0	26.6	30.9	30.1	34.4	30.9	33.5	39.5	68.7	67.8
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)