

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: P509819

Luminaire Tested: **VERD-M-CA3-150-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509819
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-CA3-150-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 940mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19136 lumens
Efficiency: N/A
Efficacy: 125.1 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

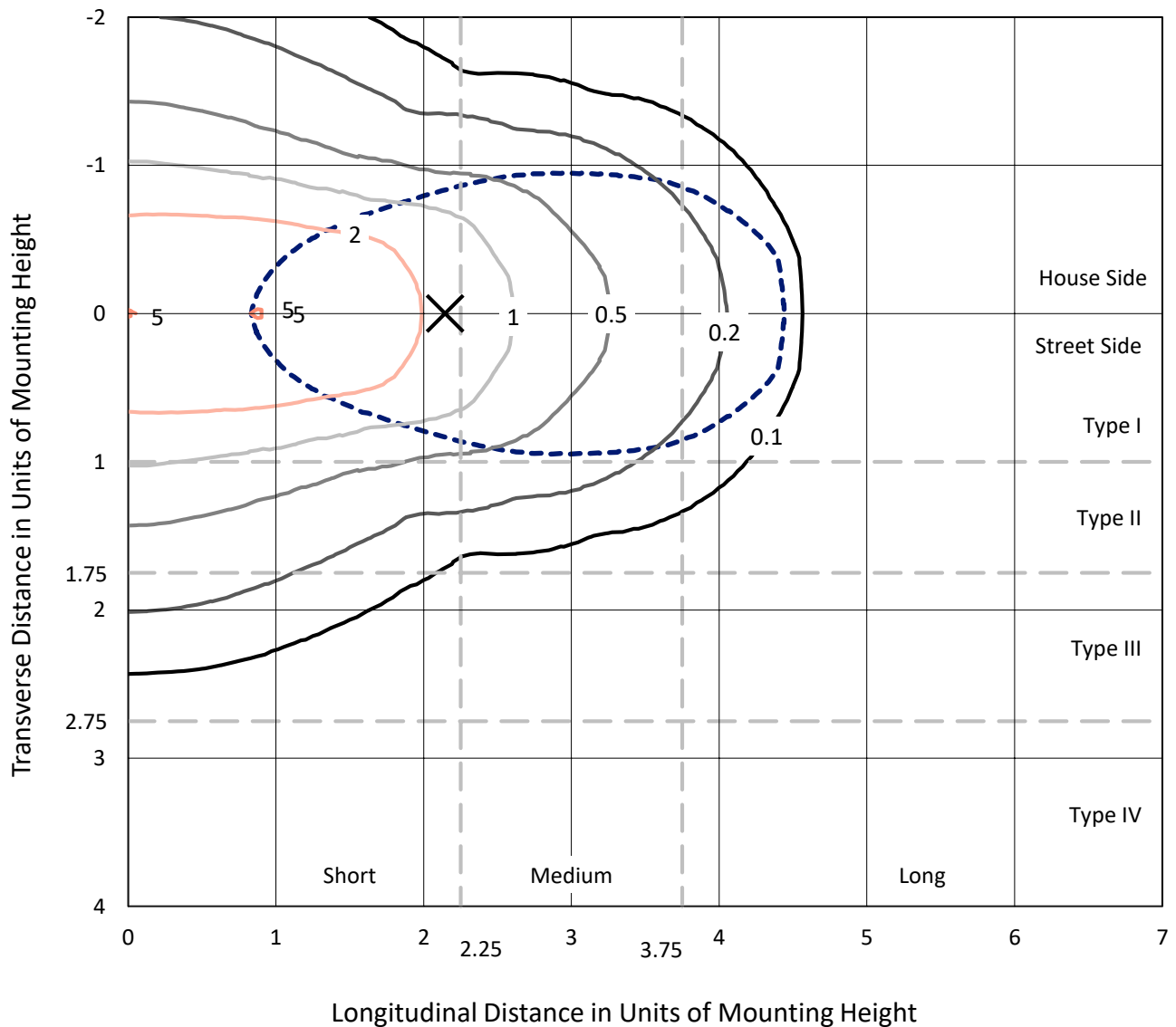
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

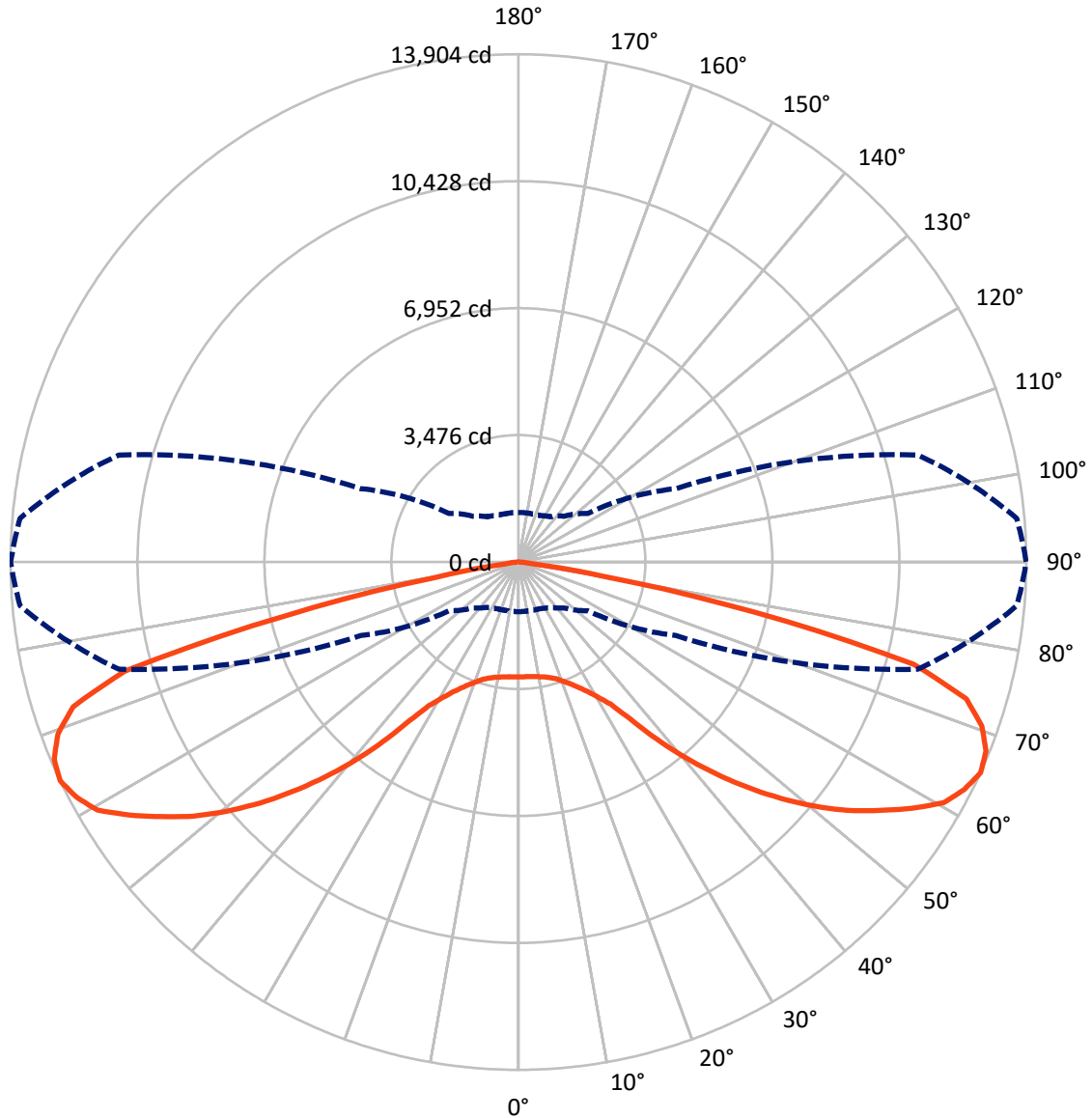
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	9568.0	0.0	9568.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9568.0	0.0	9568.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19136.0	0.0	19136.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.6
10°-20°	889.7	4.6
20°-30°	1468.8	7.7
30°-40°	2152.2	11.2
40°-50°	3139.4	16.4
50°-60°	4064.5	21.2
60°-70°	4282.2	22.4
70°-80°	2613.6	13.7
80°-90°	225.9	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°	19136.0	100.0
0°-180°	19136.0	100.0



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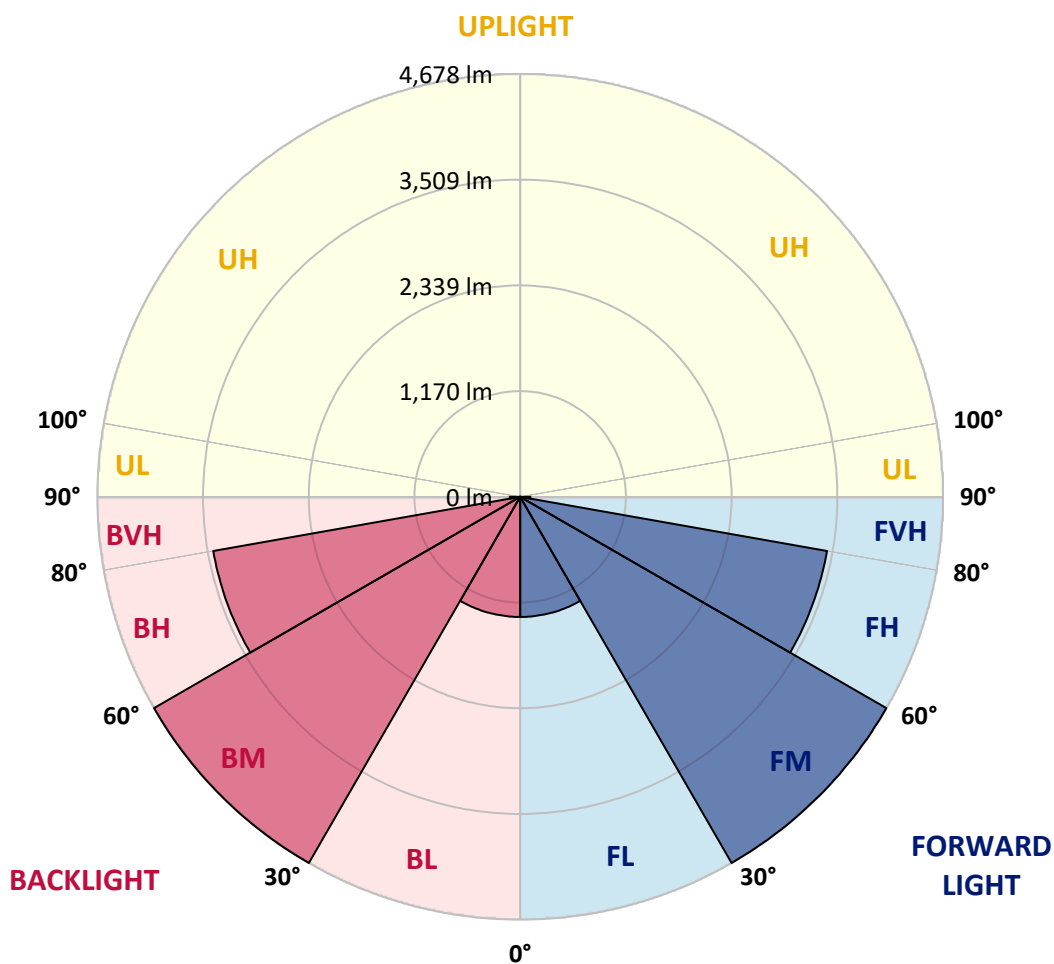
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.1	6.9			
FM	(30°-60°)	4678.1	24.4			
FH	(60°-80°)	3447.9	18.0			G2/5000
FVH	(80°-90°)	113.0	0.6			G2/225
BL	(0°-30°)	1329.1	6.9	B3/2500		
BM	(30°-60°)	4678.1	24.4	B3/5000		
BH	(60°-80°)	3447.9	18.0	B4/5000		G4/5000
BVH	(80°-90°)	113.0	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°	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3
2.5°	3122.2	3147.5	3151.6	3141.0	3141.8	3140.2	3146.7	3149.1	3152.4	3147.5	3145.0
5°	3117.3	3139.3	3143.4	3138.5	3145.0	3143.4	3146.7	3152.4	3151.6	3149.9	3149.9
7.5°	3091.3	3107.6	3120.6	3117.3	3119.0	3129.6	3141.0	3159.7	3168.7	3168.7	3167.0
10°	3057.0	3074.1	3096.1	3091.3	3101.8	3123.9	3146.7	3166.2	3189.1	3193.9	3193.9
12.5°	3020.3	3044.0	3065.2	3070.1	3094.5	3119.8	3161.3	3191.5	3217.6	3229.0	3228.2
15°	2971.4	2991.8	3017.1	3035.0	3074.1	3128.7	3183.3	3229.8	3267.3	3282.8	3285.2
17.5°	2906.3	2928.3	2955.1	2992.6	3061.1	3139.3	3224.1	3286.9	3343.9	3360.2	3360.2
20°	2820.7	2844.3	2876.9	2934.8	3027.7	3149.9	3263.2	3361.8	3436.0	3474.3	3480.0
22.5°	2687.8	2713.9	2766.9	2867.1	2989.4	3148.3	3309.7	3449.8	3561.5	3611.2	3616.9
25°	2540.3	2573.7	2648.7	2780.7	2942.1	3146.7	3356.1	3549.3	3698.4	3775.0	3791.3
27.5°	2409.9	2441.7	2533.8	2696.8	2898.1	3149.9	3402.6	3663.4	3878.5	3988.6	4002.4
30°	2282.0	2310.5	2413.2	2607.1	2857.4	3154.0	3462.1	3794.6	4083.1	4251.0	4284.4
32.5°	2176.8	2205.4	2304.8	2511.8	2807.6	3163.0	3537.9	3969.8	4367.5	4618.5	4639.7
35°	2084.7	2117.3	2204.5	2415.6	2741.6	3176.0	3633.2	4199.6	4775.0	5237.9	5262.4
37.5°	2004.9	2031.0	2108.4	2313.8	2672.3	3178.5	3744.1	4469.4	5301.5	5985.3	6152.4
40°	1951.9	1969.8	2029.3	2220.0	2581.1	3158.1	3871.2	4770.9	5888.3	6853.2	7043.9
42.5°	1903.8	1920.1	1967.4	2133.6	2485.7	3119.0	3989.4	5080.6	6475.9	7739.9	7920.1
45°	1845.9	1859.0	1907.1	2060.3	2392.8	3058.7	4087.2	5367.5	7083.9	8630.7	8800.2
47.5°	1798.7	1808.5	1849.2	1994.3	2289.3	2961.7	4128.7	5627.5	7735.9	9454.7	9665.0
50°	1766.1	1762.8	1798.7	1925.8	2183.4	2826.4	4093.7	5819.8	8422.9	10279.5	10506.0
52.5°	1709.8	1713.1	1747.3	1854.9	2095.3	2659.3	3956.8	5955.1	9114.0	11032.5	11300.6
55°	1652.0	1656.9	1683.8	1780.8	2002.4	2500.4	3703.3	5973.9	9836.9	11819.8	12002.3
57.5°	1590.0	1592.5	1615.3	1700.9	1898.9	2335.8	3383.8	5854.9	10507.7	12541.9	12714.6
60°	1535.4	1536.3	1551.7	1617.8	1784.0	2158.1	3012.2	5616.1	11048.0	13096.1	13377.2
62.5°	1462.1	1462.1	1471.9	1527.3	1666.7	1974.7	2655.2	5246.1	11343.0	13500.3	13704.9
65°	1357.0	1358.6	1368.4	1404.2	1512.6	1775.0	2320.3	4757.1	11325.1	13698.3	13903.7
67.5°	1155.7	1151.6	1210.3	1268.9	1353.7	1572.9	1991.8	4277.1	10914.3	13613.6	13805.9
70°	837.0	831.3	865.5	948.6	1153.2	1313.8	1692.7	3876.1	9734.2	13296.5	13456.3
72.5°	687.0	690.3	691.9	681.3	771.8	1063.6	1414.0	3409.1	8031.7	12324.3	12821.4
75°	543.6	535.4	544.4	552.6	577.0	623.5	1144.2	2838.6	6518.3	10334.1	11172.7
77.5°	343.1	338.2	337.4	342.3	374.1	395.3	700.9	2080.7	4535.4	6537.0	6592.4
80°	238.8	238.0	238.8	245.3	255.9	260.8	388.7	1140.2	2283.6	2380.6	2338.2
82.5°	169.5	163.8	158.9	171.1	165.4	160.6	233.9	522.4	616.1	419.7	340.7
85°	83.9	85.6	72.5	92.1	86.4	83.9	91.3	99.4	92.1	172.0	194.8
87.5°	23.6	22.8	25.3	29.3	28.5	32.6	29.3	31.8	37.5	65.2	64.4
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)