

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: P509899

Luminaire Tested: **VERD-M-CA3-160-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509899
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-CA3-160-750-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25195 lumens
Efficiency: N/A
Efficacy: 154.9 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

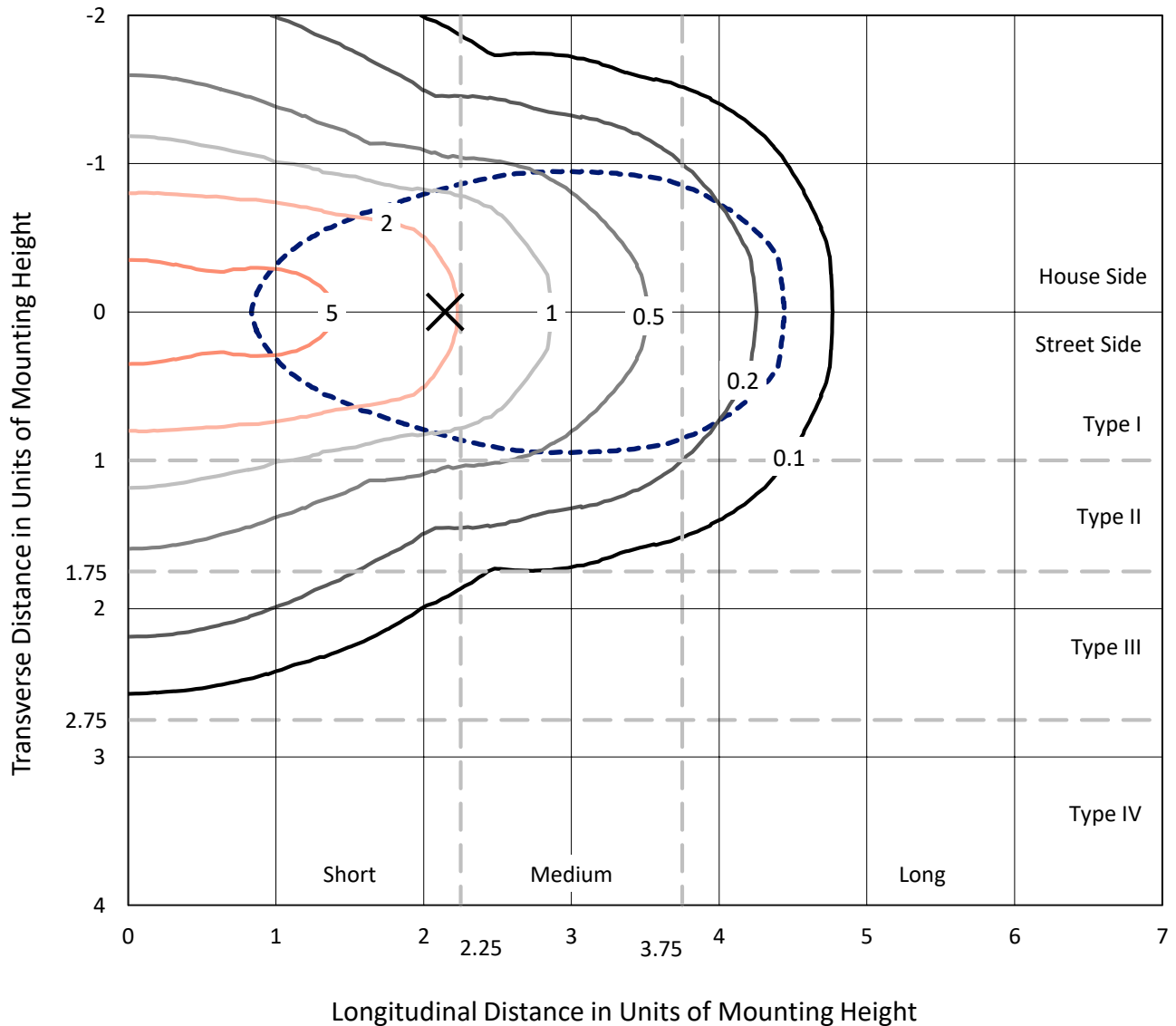
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

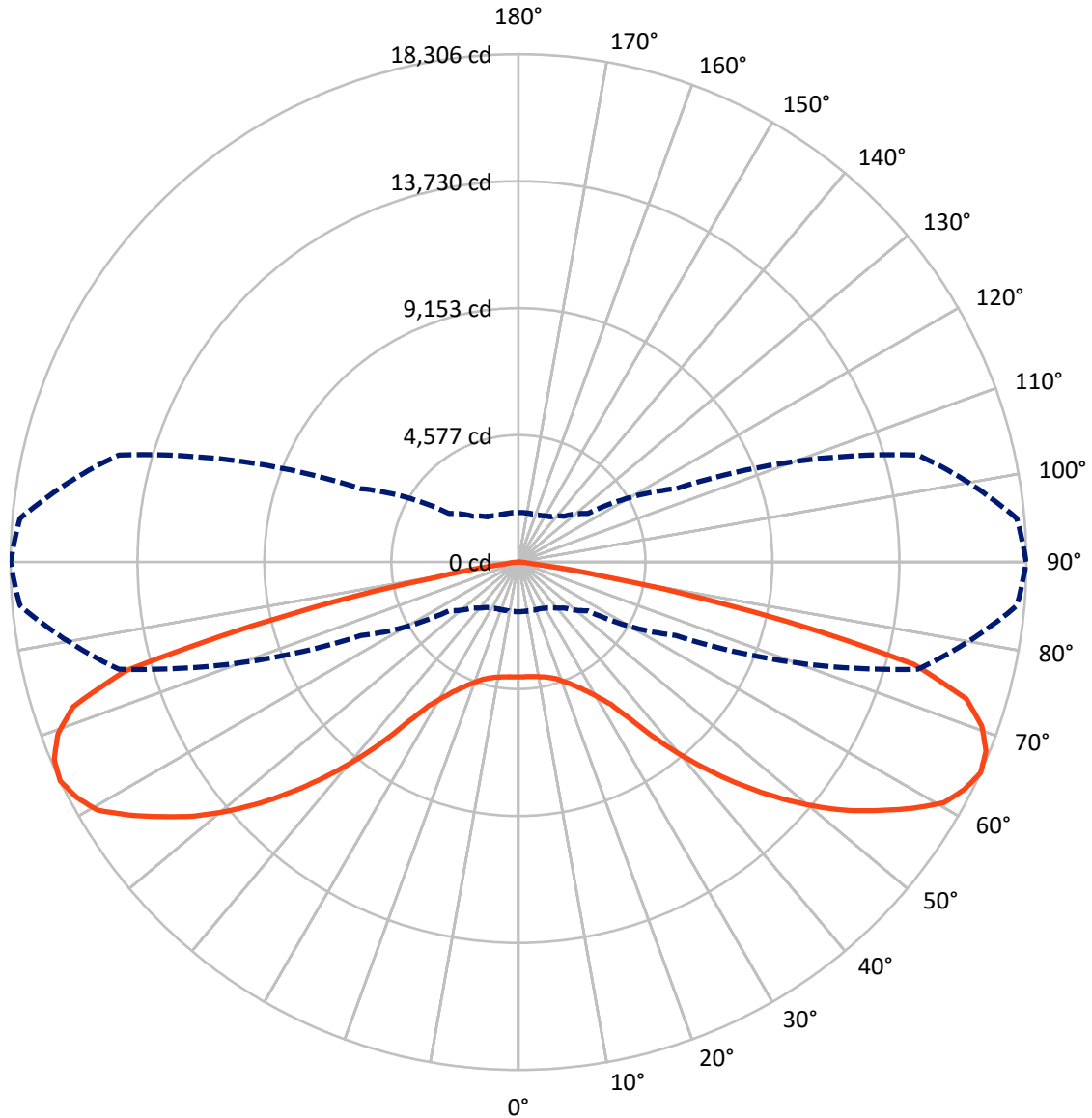
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	12597.5	0.0	12597.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12597.5	0.0	12597.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25195.0	0.0	25195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	1.6
10°-20°	1171.4	4.6
20°-30°	1933.9	7.7
30°-40°	2833.7	11.2
40°-50°	4133.4	16.4
50°-60°	5351.4	21.2
60°-70°	5638.1	22.4
70°-80°	3441.1	13.7
80°-90°	297.5	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°	25195.0	100.0
0°-180°	25195.0	100.0



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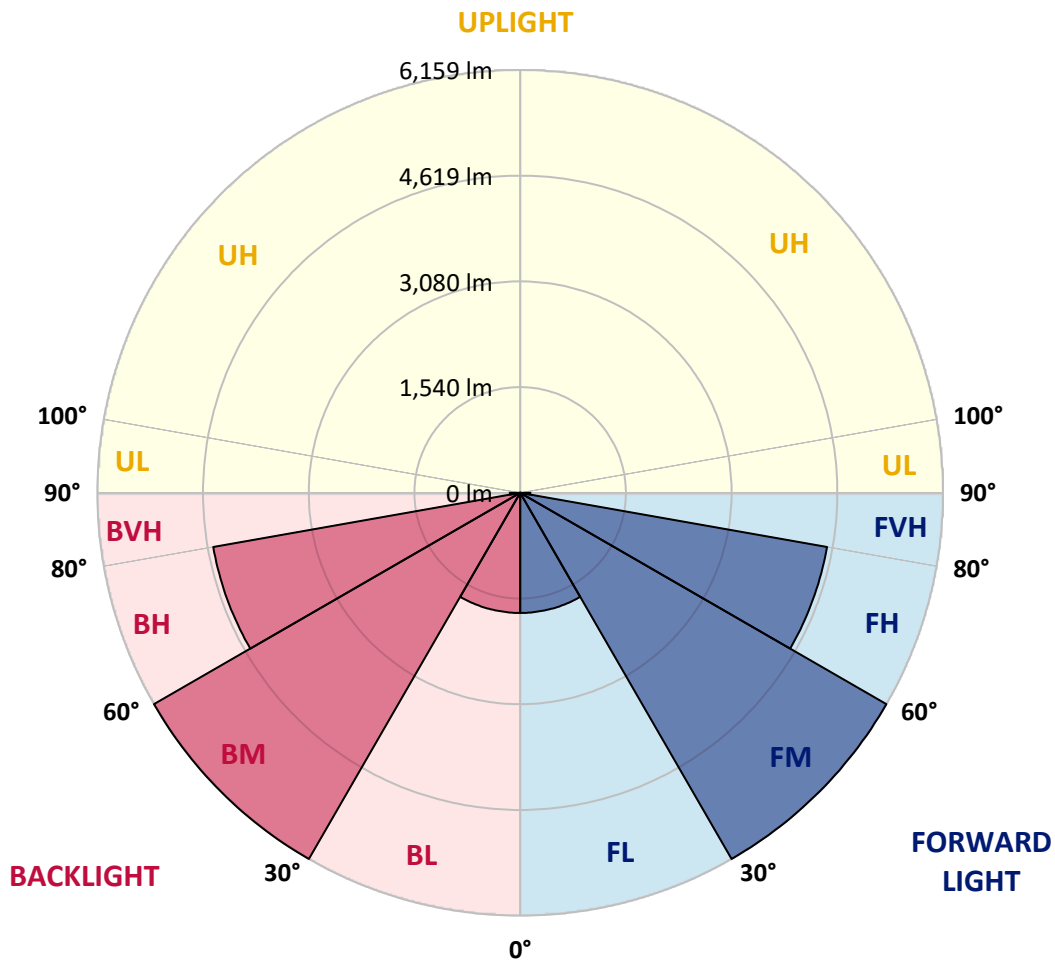
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1749.9	6.9			
FM	(30°-60°)	6159.3	24.4			
FH	(60°-80°)	4539.6	18.0			G2/5000
FVH	(80°-90°)	148.7	0.6			G2/225
BL	(0°-30°)	1749.9	6.9	B3/2500		
BM	(30°-60°)	6159.3	24.4	B4/8500		
BH	(60°-80°)	4539.6	18.0	B4/5000		G4/5000
BVH	(80°-90°)	148.7	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°	4145.1	4145.1	4145.1	4145.1	4145.1	4145.1	4145.1	4145.1	4145.1	4145.1	4145.1
2.5°	4110.8	4144.1	4149.4	4135.5	4136.6	4134.4	4143.0	4146.2	4150.5	4144.1	4140.9
5°	4104.4	4133.3	4138.7	4132.3	4140.9	4138.7	4143.0	4150.5	4149.4	4147.3	4147.3
7.5°	4070.0	4091.5	4108.7	4104.4	4106.5	4120.5	4135.5	4160.2	4172.0	4172.0	4169.8
10°	4025.0	4047.5	4076.5	4070.0	4084.0	4113.0	4143.0	4168.8	4198.8	4205.2	4205.2
12.5°	3976.7	4007.8	4035.7	4042.1	4074.3	4107.6	4162.3	4202.0	4236.4	4251.4	4250.3
15°	3912.3	3939.1	3972.4	3996.0	4047.5	4119.4	4191.3	4252.4	4301.8	4322.2	4325.4
17.5°	3826.5	3855.4	3890.8	3940.2	4030.3	4133.3	4244.9	4327.6	4402.7	4424.1	4424.1
20°	3713.8	3744.9	3787.8	3864.0	3986.3	4147.3	4296.4	4426.3	4523.9	4574.4	4581.9
22.5°	3538.9	3573.2	3643.0	3774.9	3935.9	4145.1	4357.6	4542.2	4689.2	4754.6	4762.1
25°	3344.7	3388.7	3487.4	3661.2	3873.7	4143.0	4418.8	4673.1	4869.4	4970.3	4991.8
27.5°	3173.0	3214.8	3336.1	3550.7	3815.7	4147.3	4479.9	4823.3	5106.6	5251.4	5269.7
30°	3004.5	3042.1	3177.3	3432.6	3762.1	4152.7	4558.3	4996.1	5375.9	5597.0	5641.0
32.5°	2866.1	2903.6	3034.5	3307.1	3696.6	4164.5	4658.1	5226.8	5750.4	6080.9	6108.8
35°	2744.8	2787.8	2902.6	3180.5	3609.7	4181.6	4783.6	5529.4	6286.9	6896.4	6928.6
37.5°	2639.7	2674.0	2775.9	3046.4	3518.5	4184.8	4929.5	5884.5	6980.1	7880.4	8100.4
40°	2569.9	2593.5	2671.9	2923.0	3398.3	4158.0	5096.9	6281.6	7752.7	9023.2	9274.3
42.5°	2506.6	2528.1	2590.3	2809.2	3272.8	4106.5	5252.5	6689.3	8526.4	10190.6	10427.8
45°	2430.4	2447.6	2510.9	2712.6	3150.4	4027.1	5381.3	7067.0	9326.8	11363.5	11586.7
47.5°	2368.2	2381.1	2434.7	2625.7	3014.2	3899.4	5436.0	7409.3	10185.3	12448.3	12725.2
50°	2325.3	2321.0	2368.2	2535.6	2874.7	3721.3	5389.9	7662.6	11089.8	13534.2	13832.5
52.5°	2251.2	2255.5	2300.6	2442.2	2758.8	3501.3	5209.6	7840.7	11999.8	14525.7	14878.7
55°	2175.0	2181.5	2216.9	2344.6	2636.5	3292.1	4875.9	7865.4	12951.6	15562.3	15802.6
57.5°	2093.5	2096.7	2126.8	2239.4	2500.2	3075.3	4455.3	7708.7	13834.7	16513.0	16740.5
60°	2021.6	2022.7	2043.1	2130.0	2348.9	2841.4	3965.9	7394.3	14546.1	17242.6	17612.8
62.5°	1925.0	1925.0	1937.9	2010.9	2194.4	2600.0	3496.0	6907.1	14934.5	17774.9	18044.2
65°	1786.6	1788.8	1801.6	1848.8	1991.6	2337.1	3054.9	6263.3	14910.9	18035.6	18306.0
67.5°	1521.6	1516.2	1593.5	1670.7	1782.3	2071.0	2622.5	5631.3	14370.1	17924.0	18177.3
70°	1102.0	1094.5	1139.6	1249.0	1518.3	1729.7	2228.7	5103.4	12816.4	17506.6	17716.9
72.5°	904.6	908.9	911.0	897.1	1016.2	1400.3	1861.7	4488.5	10574.8	16226.5	16881.0
75°	715.7	705.0	716.8	727.5	759.7	820.9	1506.5	3737.4	8582.2	13606.1	14710.3
77.5°	451.7	445.3	444.2	450.7	492.5	520.4	922.8	2739.5	5971.5	8606.8	8679.8
80°	314.4	313.3	314.4	323.0	336.9	343.4	511.8	1501.2	3006.7	3134.3	3078.5
82.5°	223.2	215.7	209.2	225.3	217.8	211.4	308.0	687.8	811.2	552.6	448.5
85°	110.5	112.7	95.5	121.3	113.7	110.5	120.2	130.9	121.3	226.4	256.5
87.5°	31.1	30.0	33.3	38.6	37.6	42.9	38.6	41.8	49.4	85.8	84.8
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)