

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: P509907

Luminaire Tested: **VERD-M-CA3-160-760-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509907
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-CA3-160-760-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1000mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24661 lumens
Efficiency: N/A
Efficacy: 151.6 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

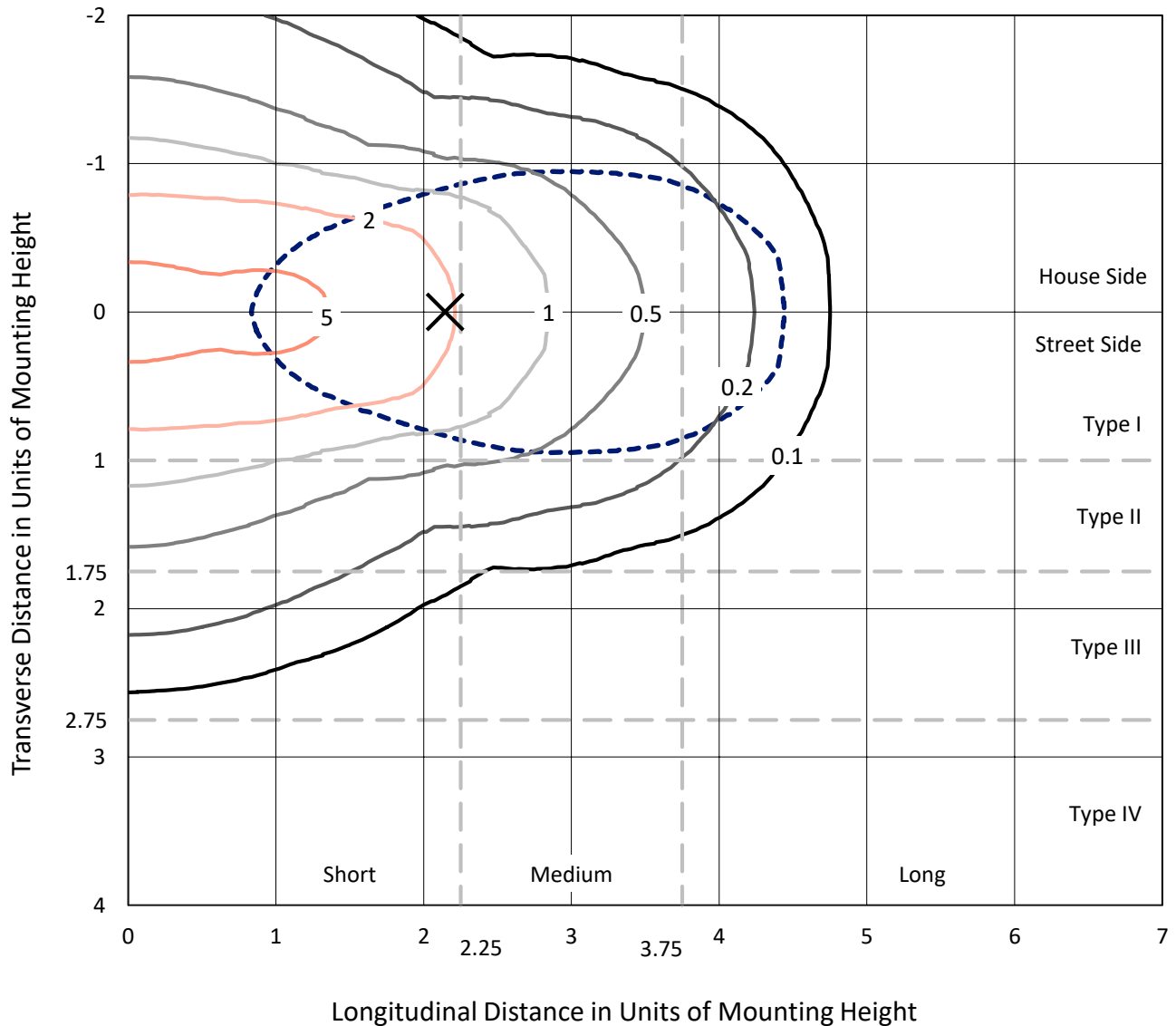
Input Watts (W): 162.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

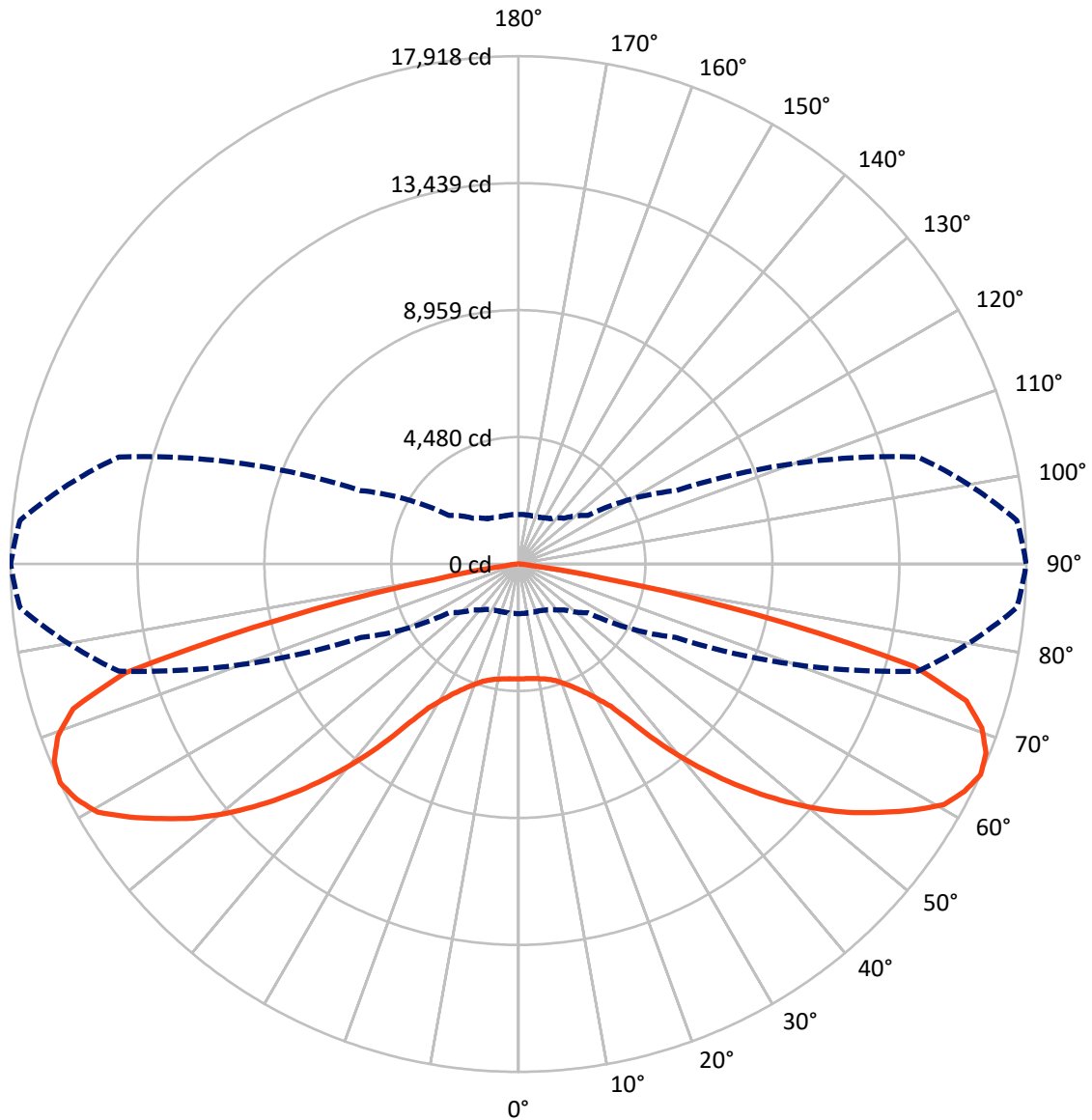
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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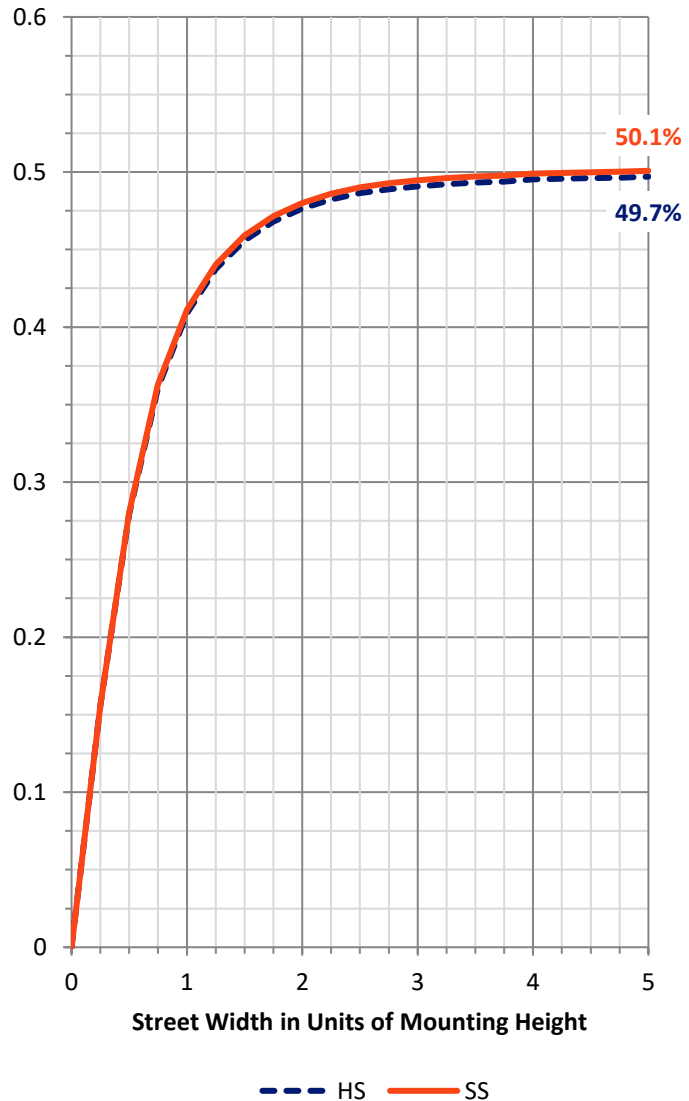
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12330.5	0.0	12330.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12330.5	0.0	12330.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24661.0	0.0	24661.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	1.6
10°-20°	1146.6	4.6
20°-30°	1892.9	7.7
30°-40°	2773.6	11.2
40°-50°	4045.8	16.4
50°-60°	5238.0	21.2
60°-70°	5518.6	22.4
70°-80°	3368.2	13.7
80°-90°	291.2	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°	24661.0	100.0
0°-180°	24661.0	100.0



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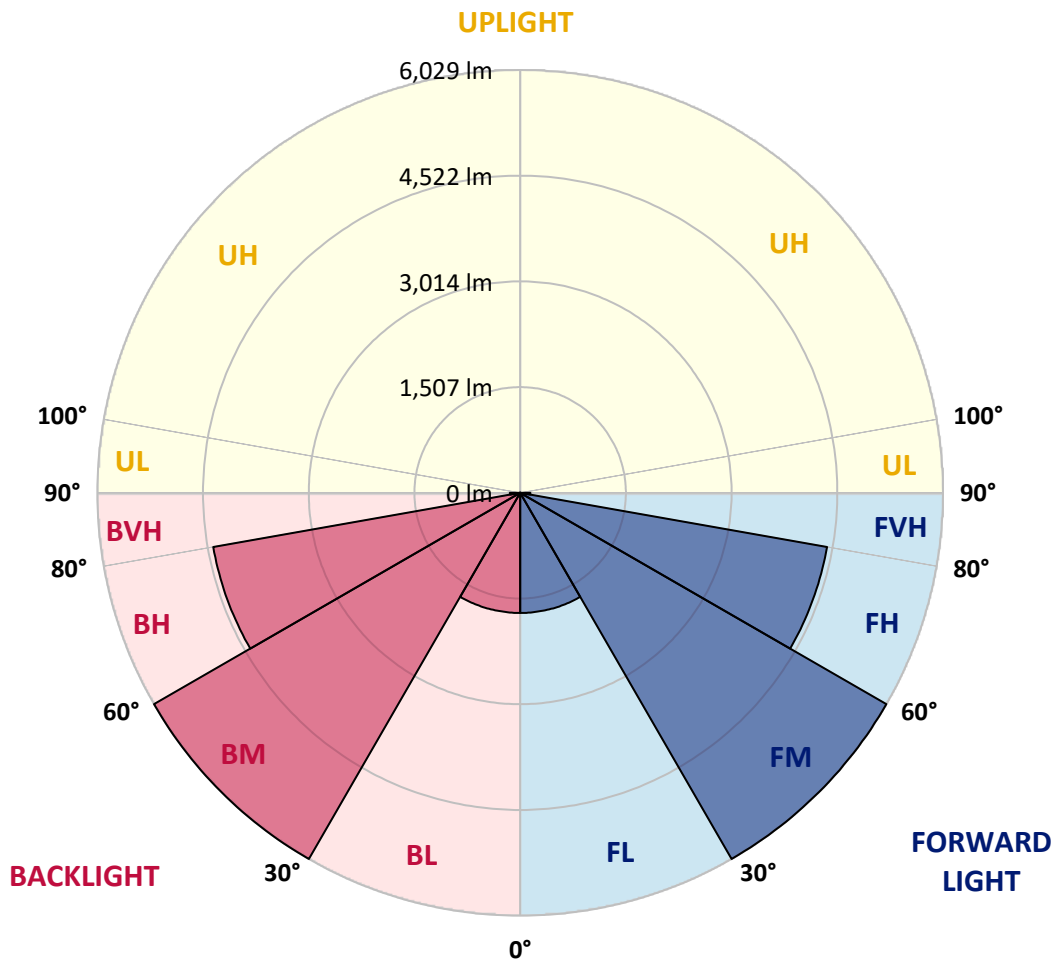
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.8	6.9			
FM	(30°-60°)	6028.7	24.4			
FH	(60°-80°)	4443.4	18.0			G2/5000
FVH	(80°-90°)	145.6	0.6			G2/225
BL	(0°-30°)	1712.8	6.9	B3/2500		
BM	(30°-60°)	6028.7	24.4	B4/8500		
BH	(60°-80°)	4443.4	18.0	B4/5000		G4/5000
BVH	(80°-90°)	145.6	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°	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3	4057.3
2.5°	4023.7	4056.2	4061.5	4047.8	4048.9	4046.8	4055.2	4058.3	4062.5	4056.2	4053.1
5°	4017.4	4045.7	4051.0	4044.7	4053.1	4051.0	4055.2	4062.5	4061.5	4059.4	4059.4
7.5°	3983.8	4004.8	4021.6	4017.4	4019.5	4033.1	4047.8	4072.0	4083.5	4083.5	4081.4
10°	3939.7	3961.7	3990.1	3983.8	3997.4	4025.8	4055.2	4080.4	4109.8	4116.1	4116.1
12.5°	3892.4	3922.9	3950.2	3956.5	3988.0	4020.5	4074.1	4113.0	4146.6	4161.3	4160.2
15°	3829.4	3855.6	3888.2	3911.3	3961.7	4032.1	4102.5	4162.3	4210.6	4230.6	4233.7
17.5°	3745.4	3773.7	3808.4	3856.7	3944.9	4045.7	4155.0	4235.8	4309.4	4330.4	4330.4
20°	3635.1	3665.5	3707.5	3782.1	3901.8	4059.4	4205.4	4332.5	4428.0	4477.4	4484.8
22.5°	3463.9	3497.5	3565.8	3694.9	3852.5	4057.3	4265.2	4445.9	4589.8	4653.9	4661.2
25°	3273.8	3316.8	3413.5	3583.6	3791.6	4055.2	4325.1	4574.0	4766.2	4865.0	4886.0
27.5°	3105.7	3146.7	3265.4	3475.4	3734.8	4059.4	4385.0	4721.1	4998.4	5140.1	5158.0
30°	2940.8	2977.6	3109.9	3359.9	3682.3	4064.6	4461.7	4890.2	5262.0	5478.3	5521.4
32.5°	2805.3	2842.1	2970.2	3237.0	3618.3	4076.2	4559.3	5116.0	5628.5	5952.0	5979.3
35°	2686.7	2728.7	2841.0	3113.1	3533.2	4093.0	4682.2	5412.2	6153.7	6750.2	6781.8
37.5°	2583.7	2617.3	2717.1	2981.8	3443.9	4096.1	4825.1	5759.8	6832.2	7713.4	7928.7
40°	2515.5	2538.6	2615.2	2861.0	3326.3	4069.9	4988.9	6148.4	7588.4	8831.9	9077.7
42.5°	2453.5	2474.5	2535.4	2749.7	3203.4	4019.5	5141.2	6547.5	8345.6	9974.6	10206.8
45°	2378.9	2395.7	2457.7	2655.1	3083.7	3941.8	5267.2	6917.2	9129.2	11122.6	11341.1
47.5°	2318.0	2330.6	2383.1	2570.1	2950.3	3816.8	5320.8	7252.3	9969.4	12184.5	12455.4
50°	2276.0	2271.8	2318.0	2481.8	2813.7	3642.4	5275.6	7500.2	10854.8	13247.4	13539.3
52.5°	2203.5	2207.7	2251.8	2390.5	2700.3	3427.1	5099.2	7674.5	11745.4	14217.8	14563.4
55°	2128.9	2135.2	2169.9	2294.9	2580.6	3222.3	4772.5	7698.7	12677.1	15232.4	15467.7
57.5°	2049.1	2052.3	2081.7	2192.0	2447.2	3010.1	4360.8	7545.3	13541.5	16163.0	16385.6
60°	1978.8	1979.8	1999.8	2084.8	2299.1	2781.2	3881.9	7237.6	14237.8	16877.2	17239.5
62.5°	1884.2	1884.2	1896.8	1968.3	2147.9	2544.9	3421.9	6760.7	14618.0	17398.1	17661.8
65°	1748.7	1750.8	1763.4	1809.7	1949.3	2287.5	2990.2	6130.6	14594.9	17653.4	17918.0
67.5°	1489.3	1484.1	1559.7	1635.3	1744.5	2027.1	2566.9	5511.9	14065.5	17544.1	17792.0
70°	1078.7	1071.3	1115.4	1222.5	1486.2	1693.1	2181.5	4995.2	12544.7	17135.6	17341.4
72.5°	885.4	889.6	891.7	878.0	994.6	1370.6	1822.3	4393.4	10350.7	15882.6	16523.2
75°	700.5	690.0	701.6	712.1	743.6	803.5	1474.6	3658.2	8400.3	13317.7	14398.5
77.5°	442.2	435.9	434.8	441.1	482.1	509.4	903.3	2681.4	5844.9	8424.4	8495.8
80°	307.7	306.7	307.7	316.1	329.8	336.1	501.0	1469.4	2942.9	3067.9	3013.3
82.5°	218.5	211.1	204.8	220.6	213.2	206.9	301.4	673.2	794.0	540.9	439.0
85°	108.2	110.3	93.5	118.7	111.3	108.2	117.6	128.1	118.7	221.6	251.0
87.5°	30.5	29.4	32.6	37.8	36.8	42.0	37.8	41.0	48.3	84.0	83.0
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)