

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: P509987

Luminaire Tested: **VERD-M-CA3-180-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509987
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-CA3-180-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1120mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27073 lumens
Efficiency: N/A
Efficacy: 147.9 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

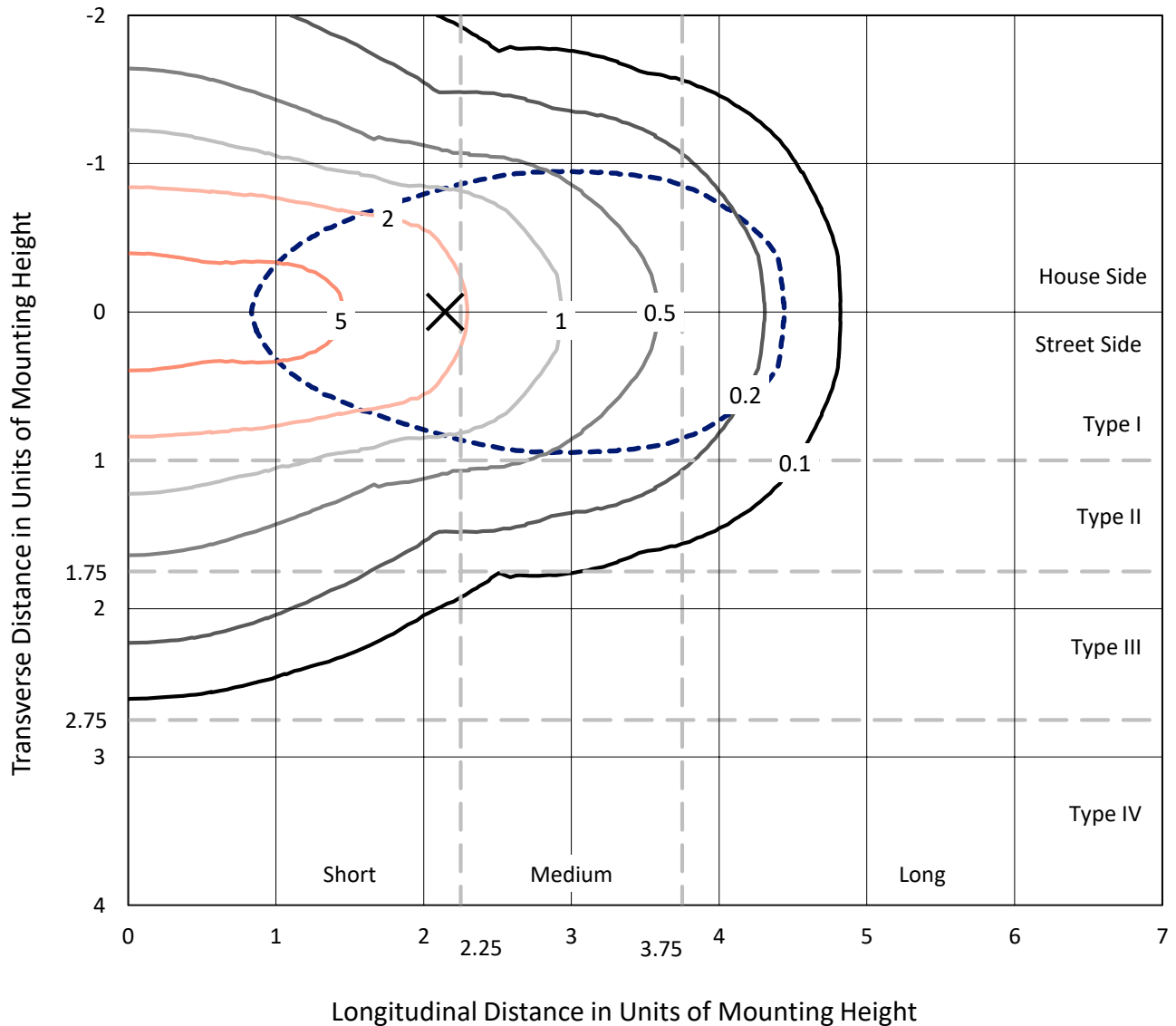
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

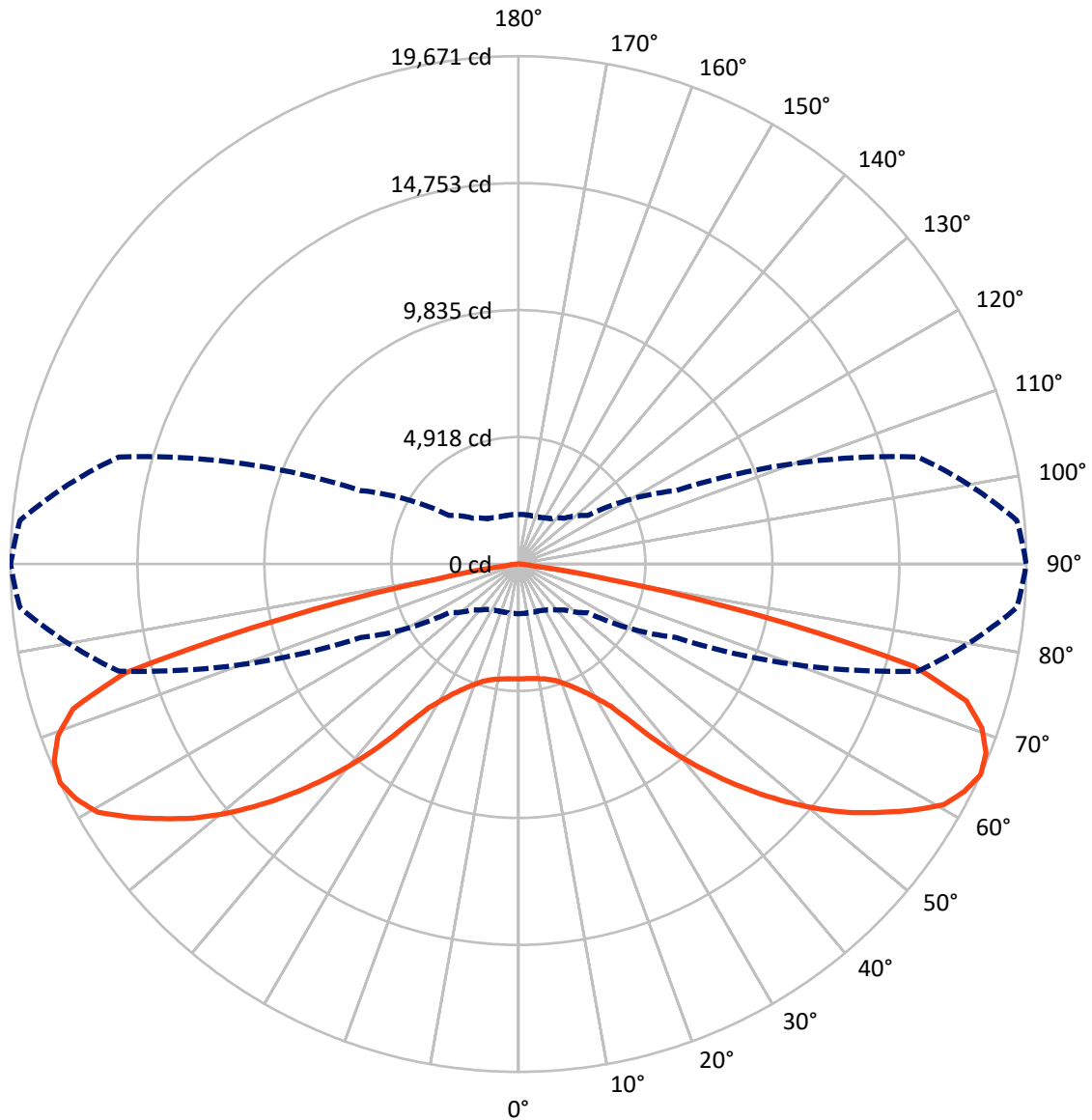
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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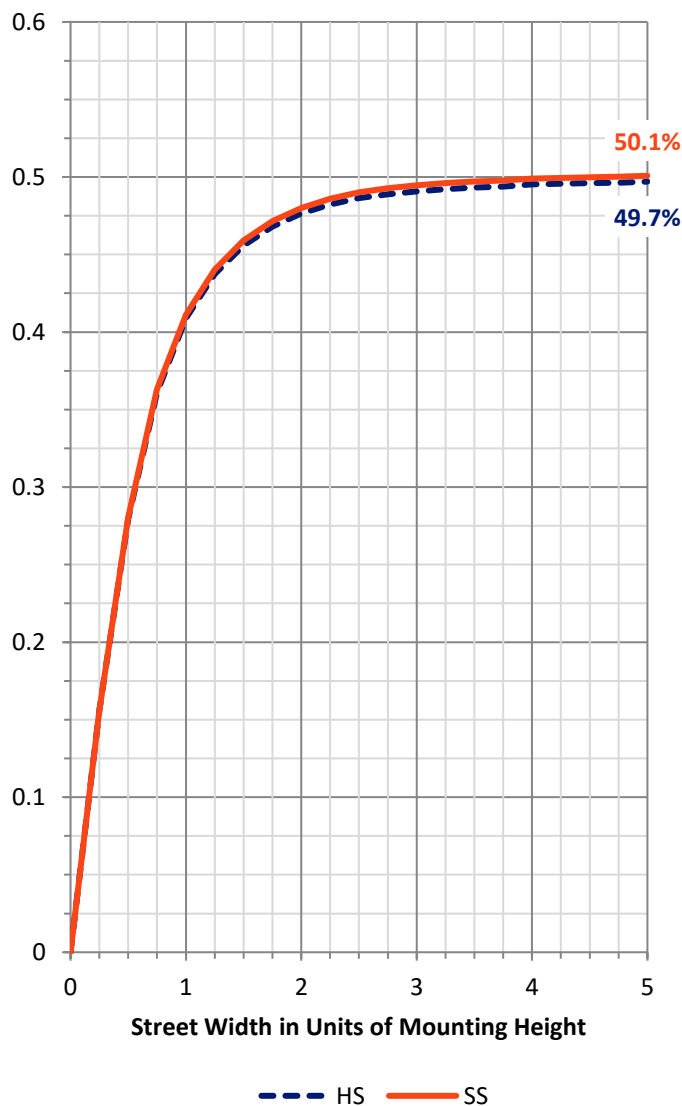
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13536.5	0.0	13536.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13536.5	0.0	13536.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27073.0	0.0	27073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.9	1.6
10°-20°	1258.7	4.6
20°-30°	2078.0	7.7
30°-40°	3044.9	11.2
40°-50°	4441.5	16.4
50°-60°	5750.3	21.2
60°-70°	6058.4	22.4
70°-80°	3697.6	13.7
80°-90°	319.6	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°	27073.0	100.0
0°-180°	27073.0	100.0

Coefficient of Utilization



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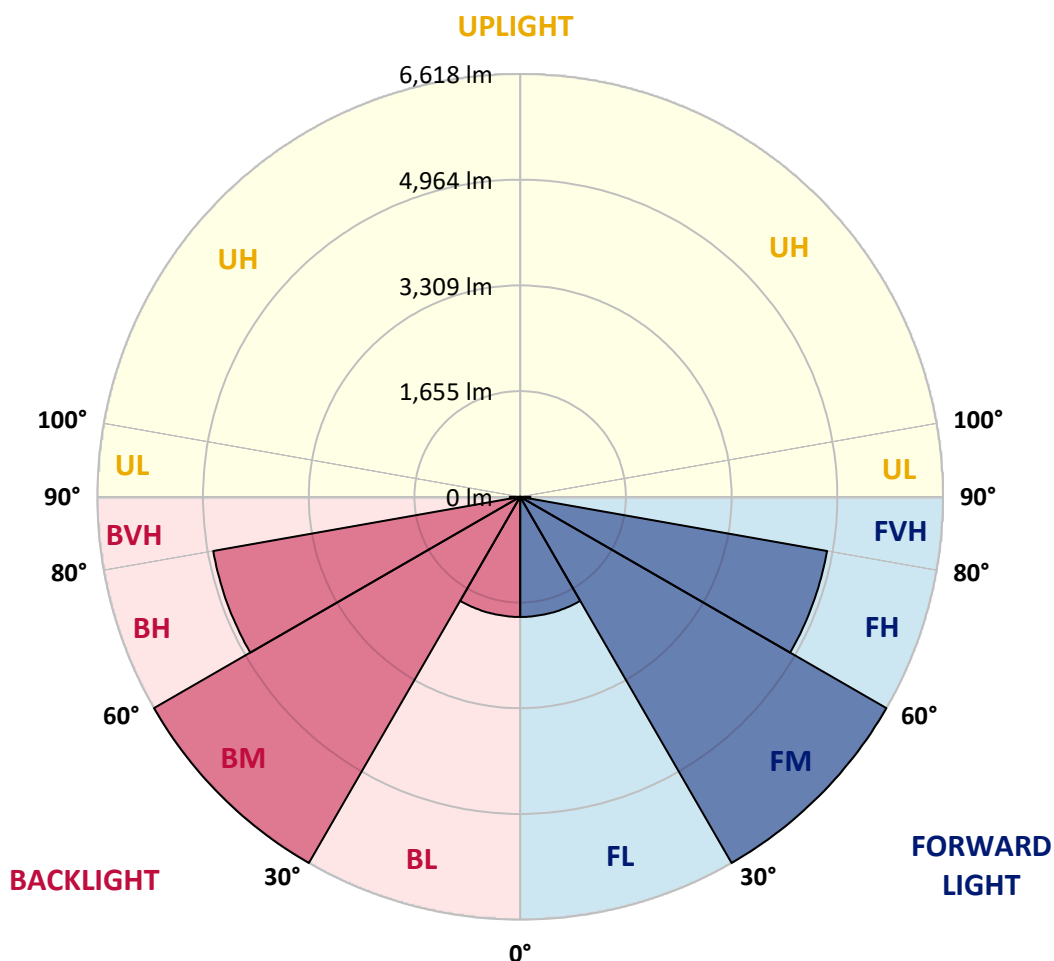
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.3	6.9			
FM (30°-60°)	6618.4	24.4			
FH (60°-80°)	4878.0	18.0			G2/5000
FVH (80°-90°)	159.8	0.6			G2/225
BL (0°-30°)	1880.3	6.9	B3/2500		
BM (30°-60°)	6618.4	24.4	B4/8500		
BH (60°-80°)	4878.0	18.0	B4/5000		G4/5000
BVH (80°-90°)	159.8	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°	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1	4454.1
2.5°	4417.2	4453.0	4458.7	4443.7	4444.9	4442.6	4451.8	4455.3	4459.9	4453.0	4449.5
5°	4410.3	4441.4	4447.2	4440.3	4449.5	4447.2	4451.8	4459.9	4458.7	4456.4	4456.4
7.5°	4373.4	4396.5	4414.9	4410.3	4412.6	4427.6	4443.7	4470.3	4482.9	4482.9	4480.6
10°	4325.0	4349.2	4380.3	4373.4	4388.4	4419.5	4451.8	4479.5	4511.8	4518.7	4518.7
12.5°	4273.1	4306.5	4336.5	4343.4	4378.0	4413.8	4472.6	4515.2	4552.1	4568.3	4567.1
15°	4203.9	4232.7	4268.5	4293.8	4349.2	4426.4	4503.7	4569.4	4622.5	4644.4	4647.8
17.5°	4111.7	4142.8	4180.9	4233.9	4330.7	4441.4	4561.3	4650.1	4730.8	4753.9	4753.9
20°	3990.6	4024.0	4070.2	4152.0	4283.5	4456.4	4616.7	4756.2	4861.1	4915.3	4923.4
22.5°	3802.7	3839.6	3914.5	4056.3	4229.3	4454.1	4682.4	4880.7	5038.7	5109.0	5117.1
25°	3594.0	3641.2	3747.3	3934.1	4162.4	4451.8	4748.1	5021.4	5232.4	5340.8	5363.8
27.5°	3409.5	3454.4	3584.7	3815.3	4100.1	4456.4	4813.9	5182.8	5487.2	5642.9	5662.5
30°	3228.5	3268.8	3414.1	3688.5	4042.5	4462.2	4898.0	5368.5	5776.6	6014.2	6061.4
32.5°	3079.7	3120.1	3260.7	3553.6	3972.2	4474.9	5005.3	5616.4	6179.0	6534.2	6564.1
35°	2949.4	2995.5	3118.9	3417.6	3878.8	4493.3	5140.2	5941.5	6755.5	7410.5	7445.1
37.5°	2836.4	2873.3	2982.9	3273.4	3780.8	4496.8	5297.0	6323.2	7500.4	8467.8	8704.1
40°	2761.5	2786.8	2871.0	3140.8	3651.6	4468.0	5476.8	6749.8	8330.6	9695.7	9965.6
42.5°	2693.5	2716.5	2783.4	3018.6	3516.7	4412.6	5644.0	7187.9	9161.9	10950.2	11205.0
45°	2611.6	2630.0	2698.1	2914.8	3385.3	4327.3	5782.4	7593.8	10022.1	12210.5	12450.3
47.5°	2544.7	2558.6	2616.2	2821.4	3238.8	4190.1	5841.2	7961.6	10944.5	13376.2	13673.7
50°	2498.6	2494.0	2544.7	2724.6	3088.9	3998.7	5791.6	8233.7	11916.5	14543.0	14863.6
52.5°	2419.0	2423.6	2472.1	2624.3	2964.4	3762.3	5597.9	8425.1	12894.2	15608.4	15987.8
55°	2337.2	2344.1	2382.1	2519.3	2833.0	3537.5	5239.3	8451.6	13917.0	16722.3	16980.5
57.5°	2249.5	2253.0	2285.3	2406.4	2686.5	3304.6	4787.3	8283.3	14865.9	17743.8	17988.3
60°	2172.3	2173.4	2195.4	2288.7	2524.0	3053.2	4261.6	7945.5	15630.3	18527.9	18925.7
62.5°	2068.5	2068.5	2082.4	2160.8	2357.9	2793.8	3756.5	7422.0	16047.7	19099.8	19389.2
65°	1919.8	1922.1	1935.9	1986.7	2140.0	2511.3	3282.6	6730.2	16022.4	19380.0	19670.5
67.5°	1635.0	1629.2	1712.2	1795.3	1915.2	2225.3	2818.0	6051.0	15441.2	19260.0	19532.2
70°	1184.2	1176.1	1224.5	1342.1	1631.5	1858.7	2394.8	5483.8	13771.7	18811.5	19037.5
72.5°	972.0	976.6	978.9	963.9	1091.9	1504.7	2000.5	4823.1	11363.0	17436.0	18139.3
75°	769.1	757.5	770.2	781.7	816.3	882.1	1618.8	4016.0	9221.9	14620.3	15806.8
77.5°	485.4	478.5	477.4	484.3	529.2	559.2	991.6	2943.7	6416.6	9248.4	9326.8
80°	337.8	336.7	337.8	347.1	362.0	369.0	550.0	1613.1	3230.8	3368.0	3308.0
82.5°	239.8	231.8	224.8	242.1	234.1	227.1	330.9	739.1	871.7	593.8	482.0
85°	118.8	121.1	102.6	130.3	122.2	118.8	129.1	140.7	130.3	243.3	275.6
87.5°	33.4	32.3	35.7	41.5	40.4	46.1	41.5	45.0	53.0	92.2	91.1
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)