

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: P510107

Luminaire Tested: **VERD-M-CA4-210-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510107
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-CA4-210-722-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 960mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26038 lumens
Efficiency: N/A
Efficacy: 121.9 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

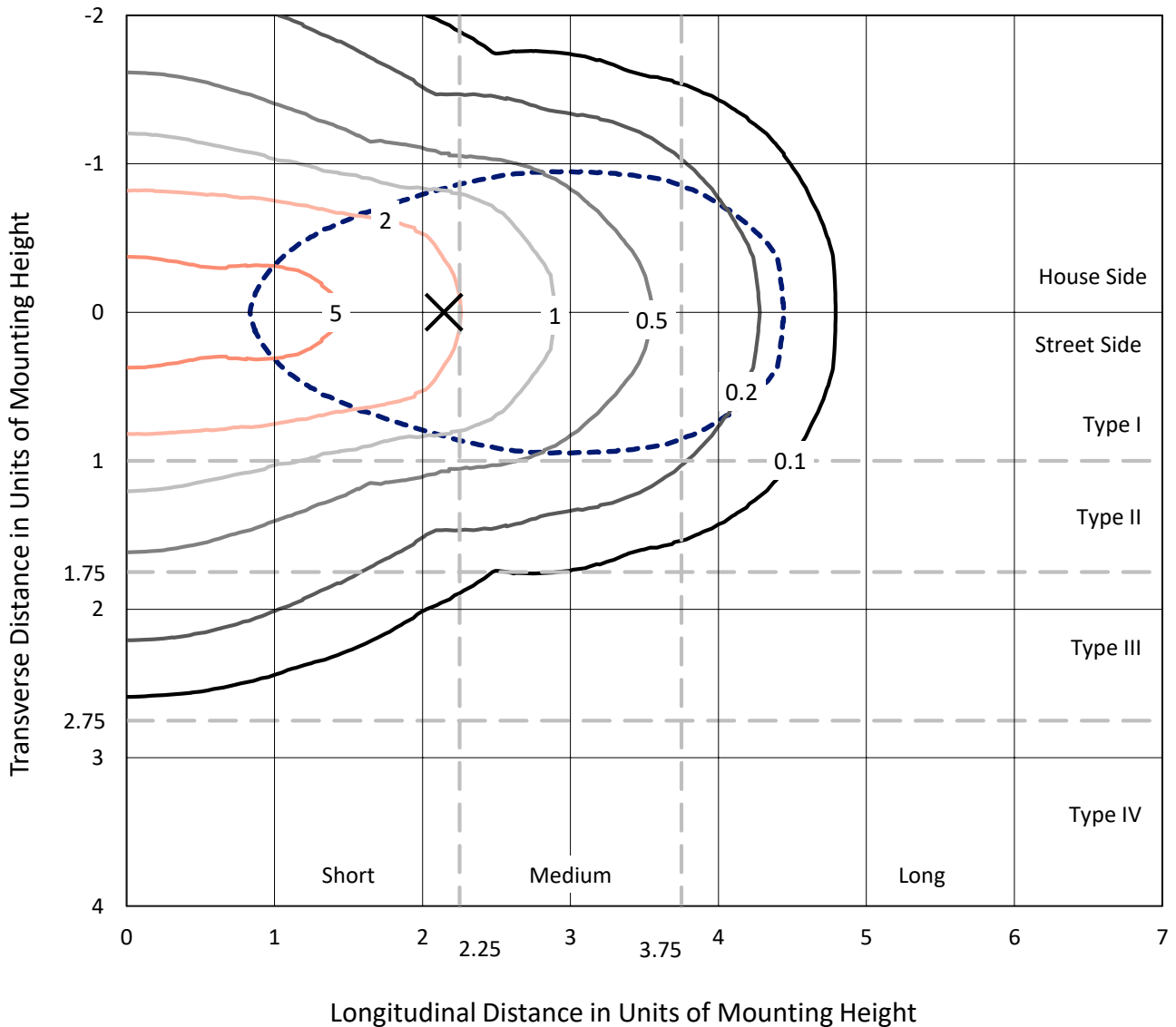
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

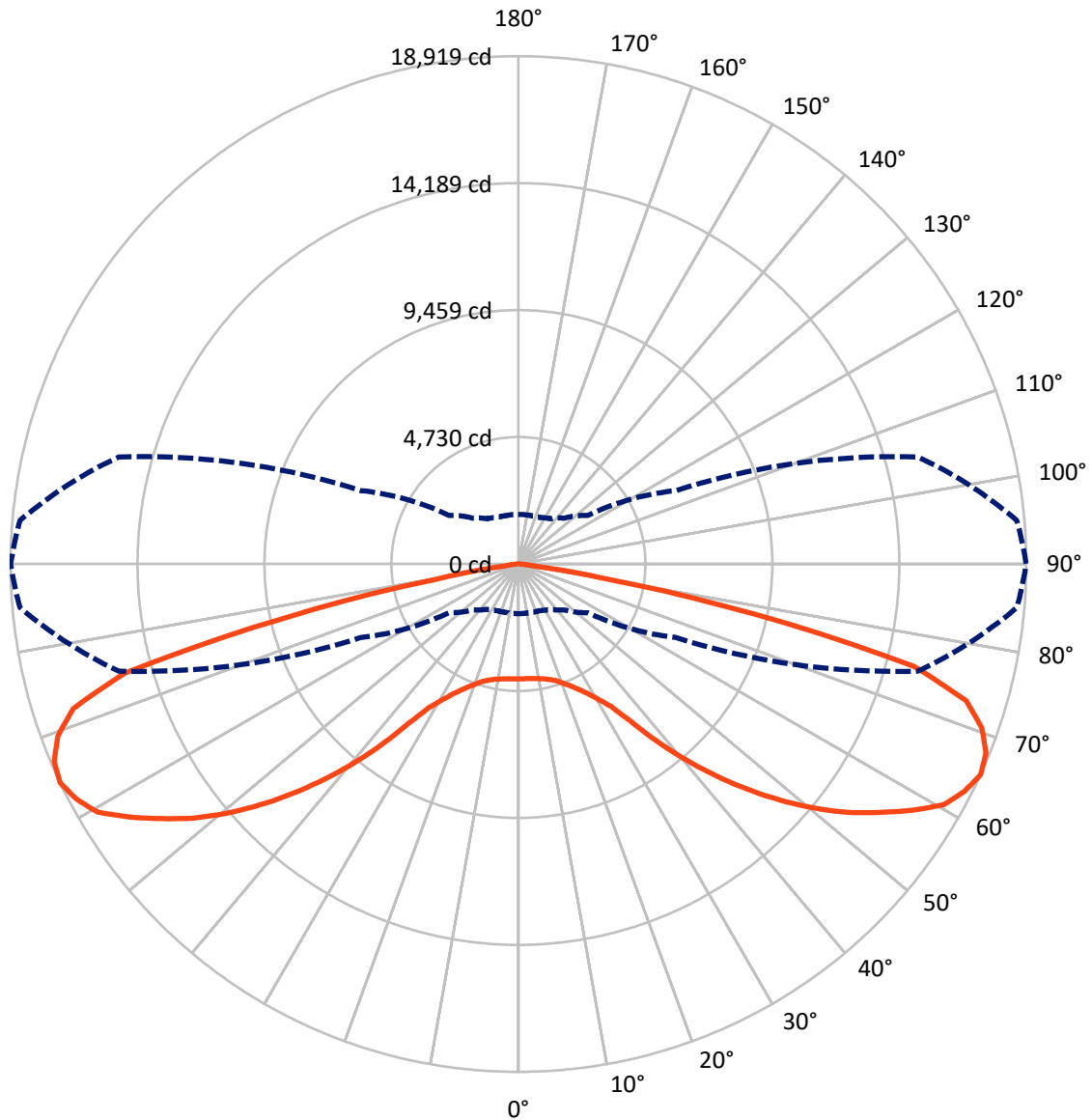
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	13019.0	0.0	13019.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13019.0	0.0	13019.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26038.0	0.0	26038.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	1.6
10°-20°	1210.6	4.6
20°-30°	1998.6	7.7
30°-40°	2928.5	11.2
40°-50°	4271.7	16.4
50°-60°	5530.5	21.2
60°-70°	5826.7	22.4
70°-80°	3556.3	13.7
80°-90°	307.4	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°	26038.0	100.0
0°-180°	26038.0	100.0



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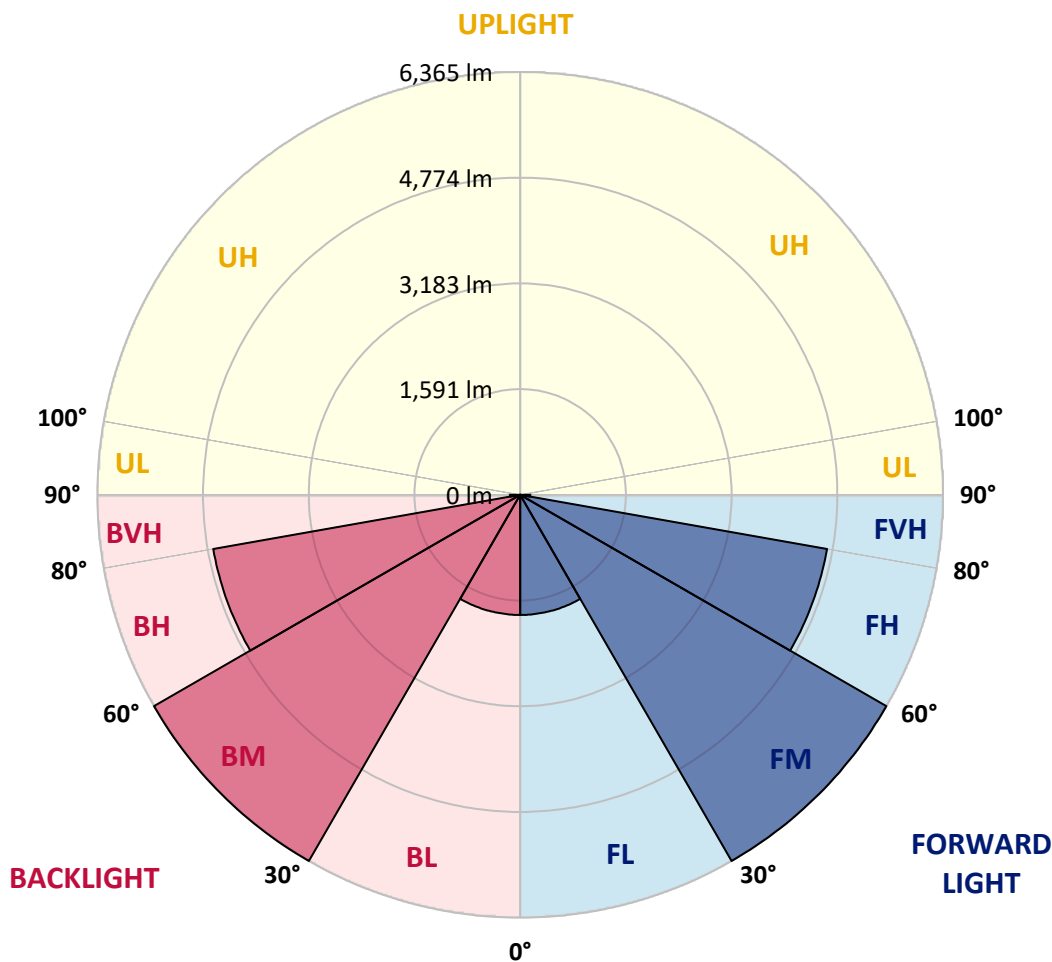
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.4	6.9			
FM	(30°-60°)	6365.4	24.4			
FH	(60°-80°)	4691.5	18.0			G2/5000
FVH	(80°-90°)	153.7	0.6			G2/225
BL	(0°-30°)	1808.4	6.9	B3/2500		
BM	(30°-60°)	6365.4	24.4	B4/8500		
BH	(60°-80°)	4691.5	18.0	B4/5000		G4/5000
BVH	(80°-90°)	153.7	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°	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8	4283.8
2.5°	4248.4	4282.7	4288.3	4273.9	4275.0	4272.7	4281.6	4284.9	4289.4	4282.7	4279.4
5°	4241.7	4271.6	4277.2	4270.5	4279.4	4277.2	4281.6	4289.4	4288.3	4286.1	4286.1
7.5°	4206.2	4228.4	4246.1	4241.7	4243.9	4258.3	4273.9	4299.4	4311.6	4311.6	4309.3
10°	4159.6	4182.9	4212.9	4206.2	4220.6	4250.6	4281.6	4308.2	4339.3	4345.9	4345.9
12.5°	4109.7	4141.9	4170.7	4177.4	4210.6	4245.0	4301.6	4342.6	4378.1	4393.6	4392.5
15°	4043.2	4070.9	4105.3	4129.7	4182.9	4257.2	4331.5	4394.7	4445.7	4466.8	4470.1
17.5°	3954.5	3984.4	4021.0	4072.0	4165.2	4271.6	4387.0	4472.4	4550.0	4572.2	4572.2
20°	3838.0	3870.2	3914.6	3993.3	4119.7	4286.1	4440.2	4574.4	4675.3	4727.4	4735.2
22.5°	3657.3	3692.8	3764.9	3901.3	4067.6	4283.8	4503.4	4694.1	4846.1	4913.7	4921.5
25°	3456.6	3502.0	3604.1	3783.7	4003.3	4281.6	4566.6	4829.4	5032.4	5136.6	5158.8
27.5°	3279.1	3322.4	3447.7	3669.5	3943.4	4286.1	4629.8	4984.7	5277.4	5427.2	5446.0
30°	3105.0	3143.8	3283.6	3547.5	3887.9	4291.6	4710.8	5163.2	5555.8	5784.2	5829.7
32.5°	2962.0	3000.8	3136.1	3417.8	3820.3	4303.8	4813.9	5401.6	5942.8	6284.4	6313.2
35°	2836.7	2881.0	2999.7	3286.9	3730.5	4321.5	4943.7	5714.4	6497.3	7127.2	7160.4
37.5°	2728.0	2763.5	2868.8	3148.3	3636.2	4324.9	5094.5	6081.4	7213.7	8144.1	8371.4
40°	2655.9	2680.3	2761.3	3020.8	3512.0	4297.1	5267.5	6491.7	8012.1	9325.1	9584.6
42.5°	2590.5	2612.7	2677.0	2903.2	3382.3	4243.9	5428.3	6913.1	8811.6	10531.6	10776.7
45°	2511.7	2529.5	2594.9	2803.4	3255.8	4161.9	5561.3	7303.5	9638.9	11743.7	11974.3
47.5°	2447.4	2460.7	2516.2	2713.6	3115.0	4029.9	5617.9	7657.2	10526.1	12864.8	13150.9
50°	2403.1	2398.6	2447.4	2620.4	2970.9	3845.8	5570.2	7918.9	11460.9	13987.1	14295.3
52.5°	2326.6	2331.0	2377.6	2523.9	2851.1	3618.5	5383.9	8103.0	12401.3	15011.7	15376.6
55°	2247.8	2254.5	2291.1	2423.0	2724.7	3402.2	5039.0	8128.5	13384.9	16083.0	16331.4
57.5°	2163.5	2166.9	2197.9	2314.4	2583.8	3178.2	4604.3	7966.6	14297.6	17065.5	17300.6
60°	2089.2	2090.4	2111.4	2201.2	2427.5	2936.5	4098.6	7641.7	15032.8	17819.6	18202.1
62.5°	1989.4	1989.4	2002.7	2078.2	2267.8	2687.0	3612.9	7138.2	15434.2	18369.6	18647.9
65°	1846.4	1848.6	1861.9	1910.7	2058.2	2415.3	3157.2	6472.9	15409.8	18639.1	18918.5
67.5°	1572.5	1566.9	1646.8	1726.6	1841.9	2140.3	2710.2	5819.7	14850.9	18523.7	18785.4
70°	1138.9	1131.1	1177.7	1290.8	1569.2	1787.6	2303.3	5274.1	13245.2	18092.4	18309.7
72.5°	934.8	939.3	941.5	927.1	1050.2	1447.2	1924.0	4638.7	10928.6	16769.4	17445.8
75°	739.7	728.6	740.8	751.9	785.1	848.3	1557.0	3862.4	8869.3	14061.4	15202.5
77.5°	466.9	460.2	459.1	465.8	509.0	537.8	953.7	2831.1	6171.3	8894.8	8970.2
80°	324.9	323.8	324.9	333.8	348.2	354.9	529.0	1551.4	3107.3	3239.2	3181.5
82.5°	230.7	222.9	216.2	232.9	225.1	218.5	318.3	710.8	838.4	571.1	463.5
85°	114.2	116.4	98.7	125.3	117.5	114.2	124.2	135.3	125.3	234.0	265.0
87.5°	32.2	31.1	34.4	39.9	38.8	44.4	39.9	43.2	51.0	88.7	87.6
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)