

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: P510035

Luminaire Tested: **VERD-M-CA4-190-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510035
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-CA4-190-740-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 870mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29335 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

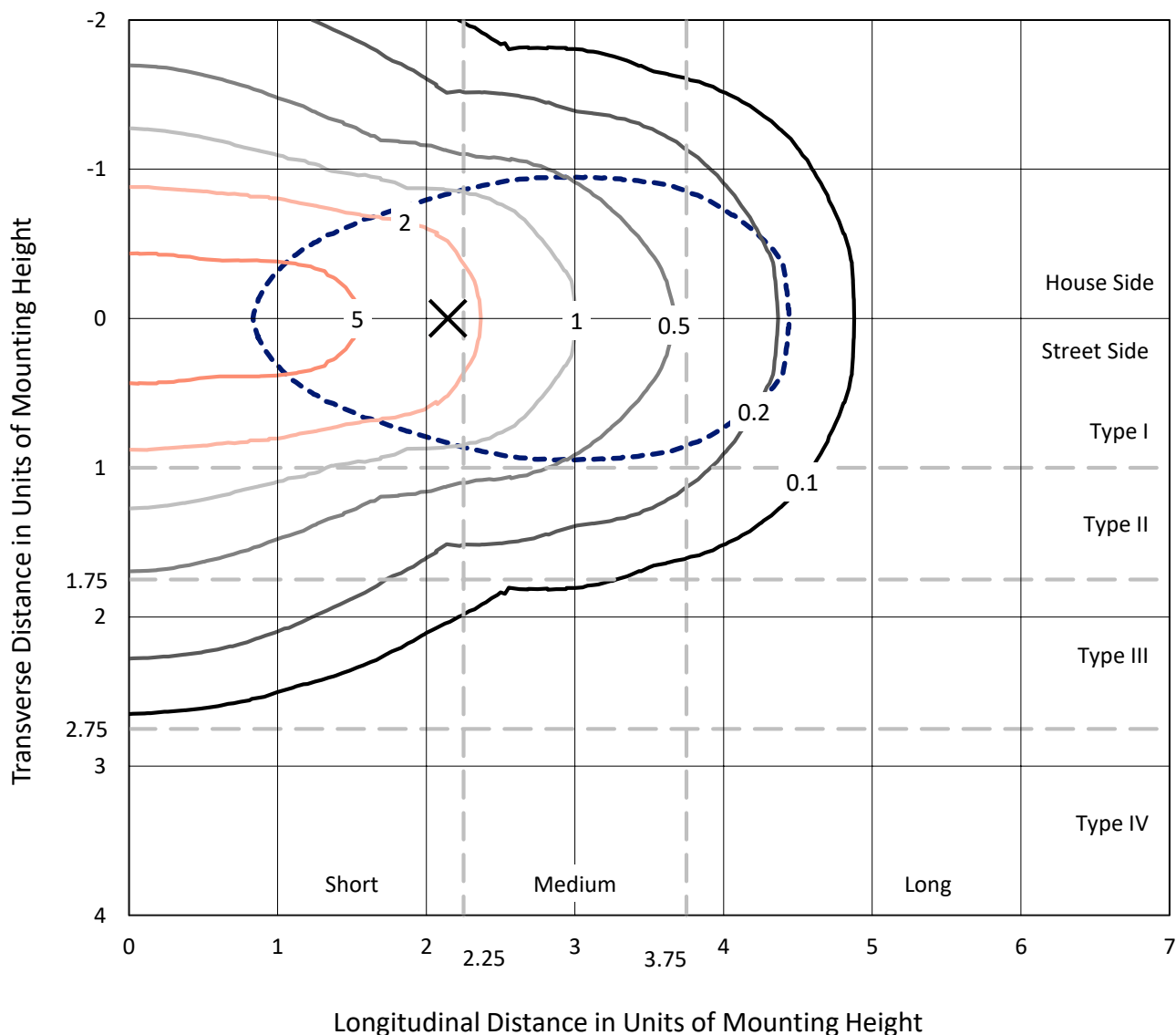
Input Watts (W): 193.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

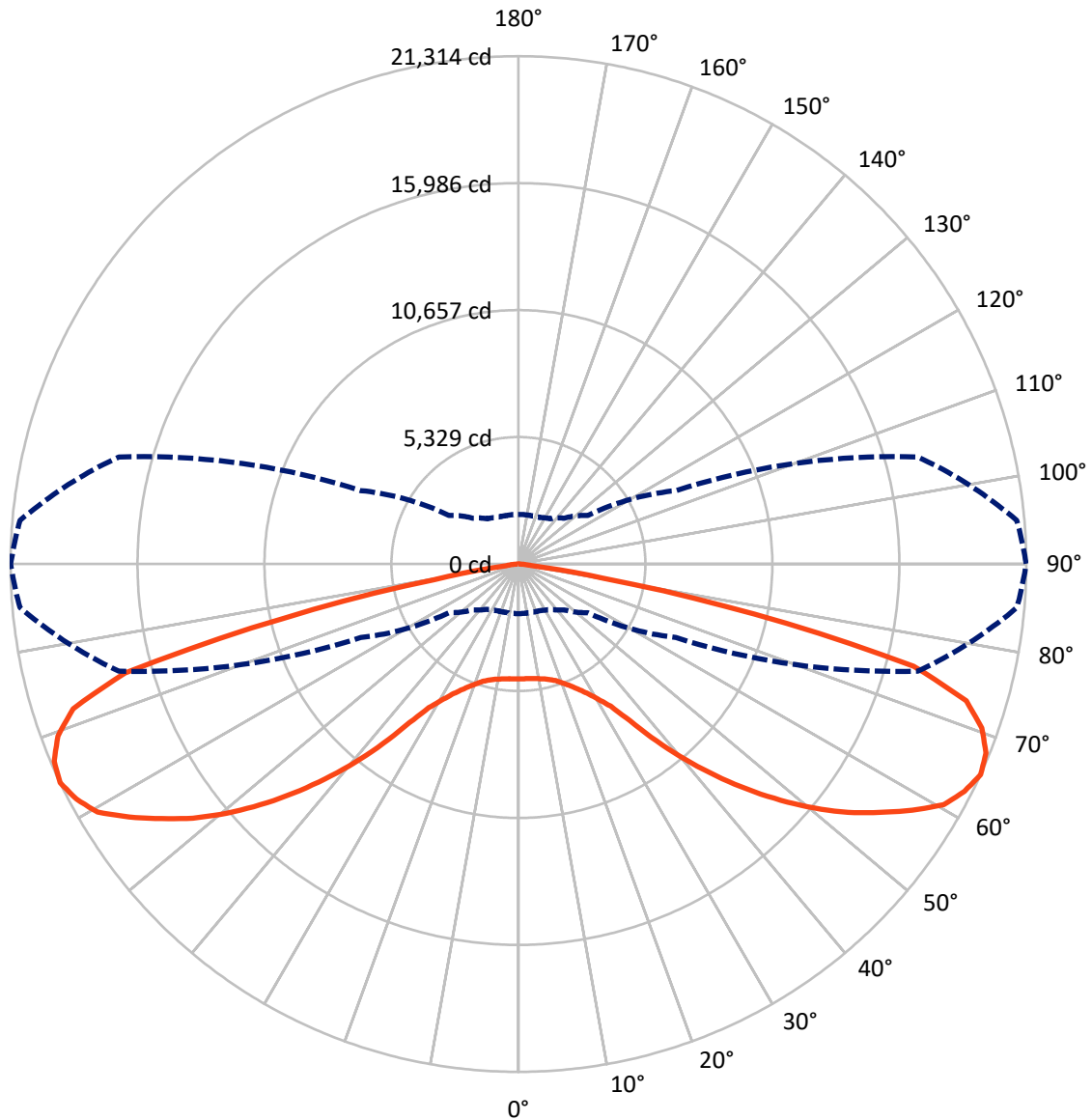
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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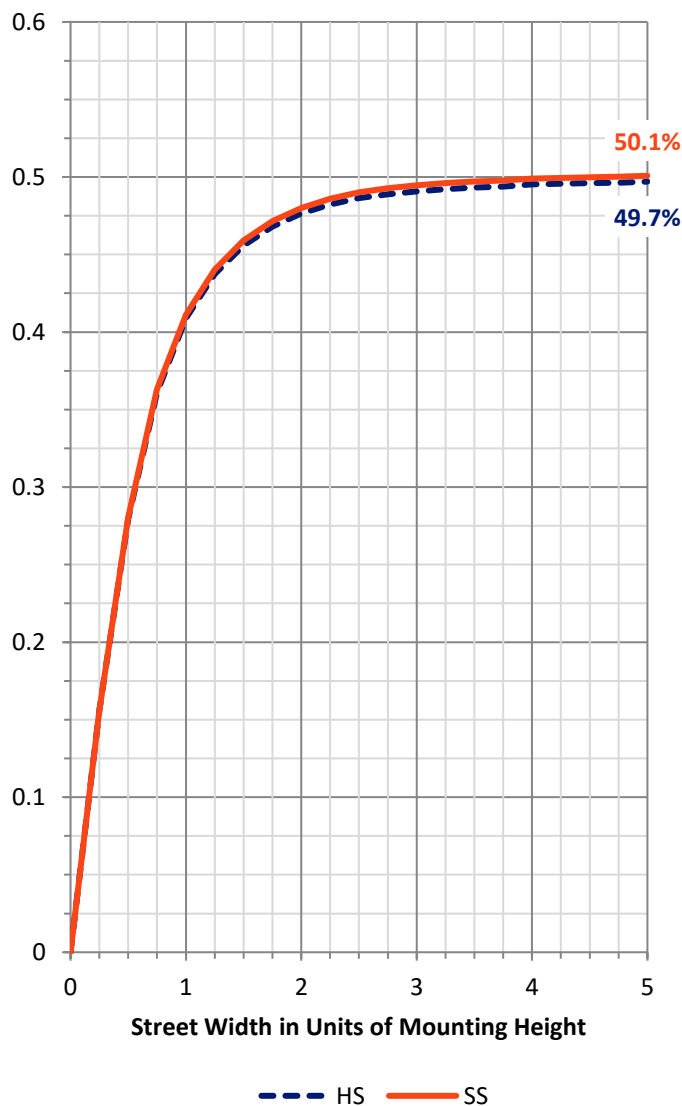
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14667.5	0.0	14667.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14667.5	0.0	14667.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29335.0	0.0	29335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.3	1.6
10°-20°	1363.9	4.6
20°-30°	2251.7	7.7
30°-40°	3299.3	11.2
40°-50°	4812.6	16.4
50°-60°	6230.8	21.2
60°-70°	6564.5	22.4
70°-80°	4006.6	13.7
80°-90°	346.3	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°	29335.0	100.0
0°-180°	29335.0	100.0

Coefficient of Utilization



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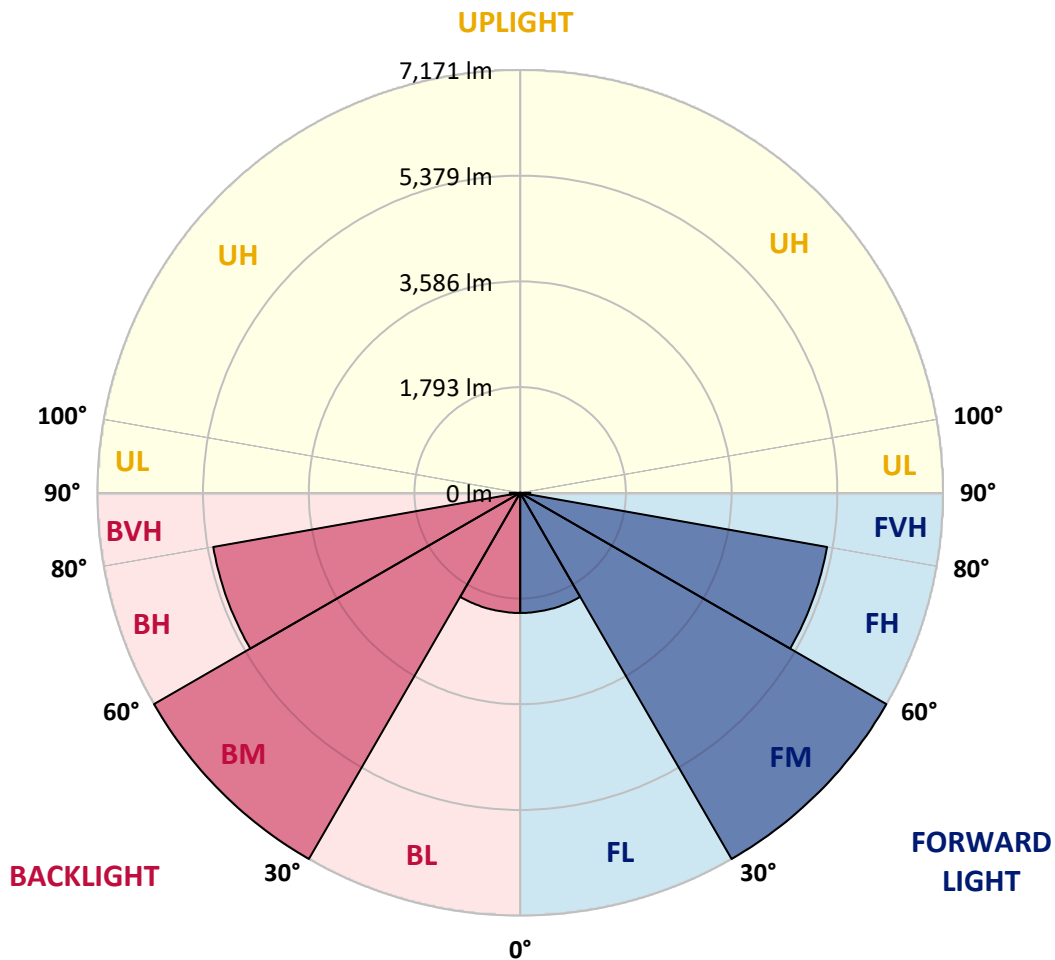
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2037.4	6.9			
FM	(30°-60°)	7171.3	24.4			
FH	(60°-80°)	5285.6	18.0			G3/7500
FVH	(80°-90°)	173.2	0.6			G2/225
BL	(0°-30°)	2037.4	6.9	B3/2500		
BM	(30°-60°)	7171.3	24.4	B4/8500		
BH	(60°-80°)	5285.6	18.0	B5		G5
BVH	(80°-90°)	173.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4826.3	4826.3	4826.3	4826.3	4826.3	4826.3	4826.3	4826.3	4826.3	4826.3	4826.3
2.5°	4786.3	4825.0	4831.3	4815.0	4816.3	4813.8	4823.8	4827.5	4832.5	4825.0	4821.3
5°	4778.8	4812.5	4818.8	4811.3	4821.3	4818.8	4823.8	4832.5	4831.3	4828.8	4828.8
7.5°	4738.8	4763.8	4783.8	4778.8	4781.3	4797.5	4815.0	4843.8	4857.5	4857.5	4855.0
10°	4686.3	4712.6	4746.3	4738.8	4755.1	4788.8	4823.8	4853.8	4888.7	4896.2	4896.2
12.5°	4630.1	4666.3	4698.8	4706.3	4743.8	4782.5	4846.3	4892.5	4932.5	4950.0	4948.7
15°	4555.2	4586.4	4625.1	4652.6	4712.6	4796.3	4880.0	4951.2	5008.7	5032.4	5036.2
17.5°	4455.2	4488.9	4530.2	4587.6	4692.6	4812.5	4942.5	5038.7	5126.1	5151.1	5151.1
20°	4324.0	4360.3	4410.2	4498.9	4641.4	4828.8	5002.4	5153.6	5267.3	5326.0	5334.8
22.5°	4120.4	4160.4	4241.6	4395.2	4582.6	4826.3	5073.6	5288.5	5459.7	5535.9	5544.6
25°	3894.2	3945.5	4060.4	4262.8	4510.2	4823.8	5144.9	5441.0	5669.6	5787.0	5812.0
27.5°	3694.3	3743.1	3884.3	4134.1	4442.7	4828.8	5216.1	5615.9	5945.7	6114.4	6135.6
30°	3498.2	3541.9	3699.3	3996.7	4380.2	4835.0	5307.3	5817.0	6259.3	6516.6	6567.9
32.5°	3337.0	3380.8	3533.2	3850.5	4304.0	4848.8	5423.5	6085.6	6695.3	7080.1	7112.6
35°	3195.9	3245.8	3379.5	3703.1	4202.8	4868.7	5569.6	6437.9	7320.0	8029.6	8067.1
37.5°	3073.4	3113.4	3232.1	3546.9	4096.6	4872.5	5739.5	6851.5	8127.1	9175.3	9431.4
40°	2992.2	3019.7	3110.9	3403.2	3956.7	4841.3	5934.4	7313.7	9026.6	10505.8	10798.2
42.5°	2918.5	2943.5	3015.9	3270.8	3810.5	4781.3	6115.6	7788.5	9927.4	11865.1	12141.3
45°	2829.8	2849.8	2923.5	3158.4	3668.1	4688.8	6265.5	8228.3	10859.4	13230.7	13490.6
47.5°	2757.3	2772.3	2834.8	3057.2	3509.4	4540.2	6329.2	8626.8	11858.9	14493.8	14816.1
50°	2707.4	2702.4	2757.3	2952.2	3347.0	4332.8	6275.5	8921.7	12912.1	15758.1	16105.5
52.5°	2621.2	2626.1	2678.6	2843.5	3212.1	4076.7	6065.6	9129.1	13971.6	16912.5	17323.6
55°	2532.4	2539.9	2581.2	2729.8	3069.7	3833.0	5677.1	9157.8	15079.7	18119.4	18399.3
57.5°	2437.5	2441.2	2476.2	2607.4	2911.0	3580.7	5187.3	8975.4	16108.0	19226.4	19491.2
60°	2353.8	2355.0	2378.8	2480.0	2734.8	3308.3	4617.6	8609.3	16936.3	20075.9	20506.9
62.5°	2241.3	2241.3	2256.3	2341.3	2554.9	3027.2	4070.4	8042.1	17388.6	20695.6	21009.2
65°	2080.2	2082.7	2097.7	2152.6	2318.8	2721.1	3556.9	7292.5	17361.1	20999.2	21314.0
67.5°	1771.6	1765.3	1855.3	1945.2	2075.2	2411.3	3053.4	6556.6	16731.4	20869.3	21164.1
70°	1283.1	1274.3	1326.8	1454.3	1767.8	2014.0	2594.9	5941.9	14922.3	20383.3	20628.1
72.5°	1053.2	1058.2	1060.7	1044.5	1183.1	1630.4	2167.6	5226.1	12312.4	18892.8	19654.9
75°	833.3	820.8	834.6	847.1	884.5	955.8	1754.1	4351.5	9992.4	15841.8	17127.4
77.5°	526.0	518.5	517.2	524.7	573.5	605.9	1074.4	3189.6	6952.7	10021.1	10106.1
80°	366.1	364.8	366.1	376.1	392.3	399.8	595.9	1747.9	3500.7	3649.4	3584.4
82.5°	259.9	251.1	243.6	262.4	253.6	246.1	358.6	800.8	944.5	643.4	522.2
85°	128.7	131.2	111.2	141.2	132.4	128.7	139.9	152.4	141.2	263.6	298.6
87.5°	36.2	35.0	38.7	45.0	43.7	50.0	45.0	48.7	57.5	99.9	98.7
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)