

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: P510323

Luminaire Tested: **VERD-M-CA4-250-740-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510323  
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-CA4-250-740-U-T1  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 1130mA LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36673 lumens  
Efficiency: N/A  
Efficacy: 145.7 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

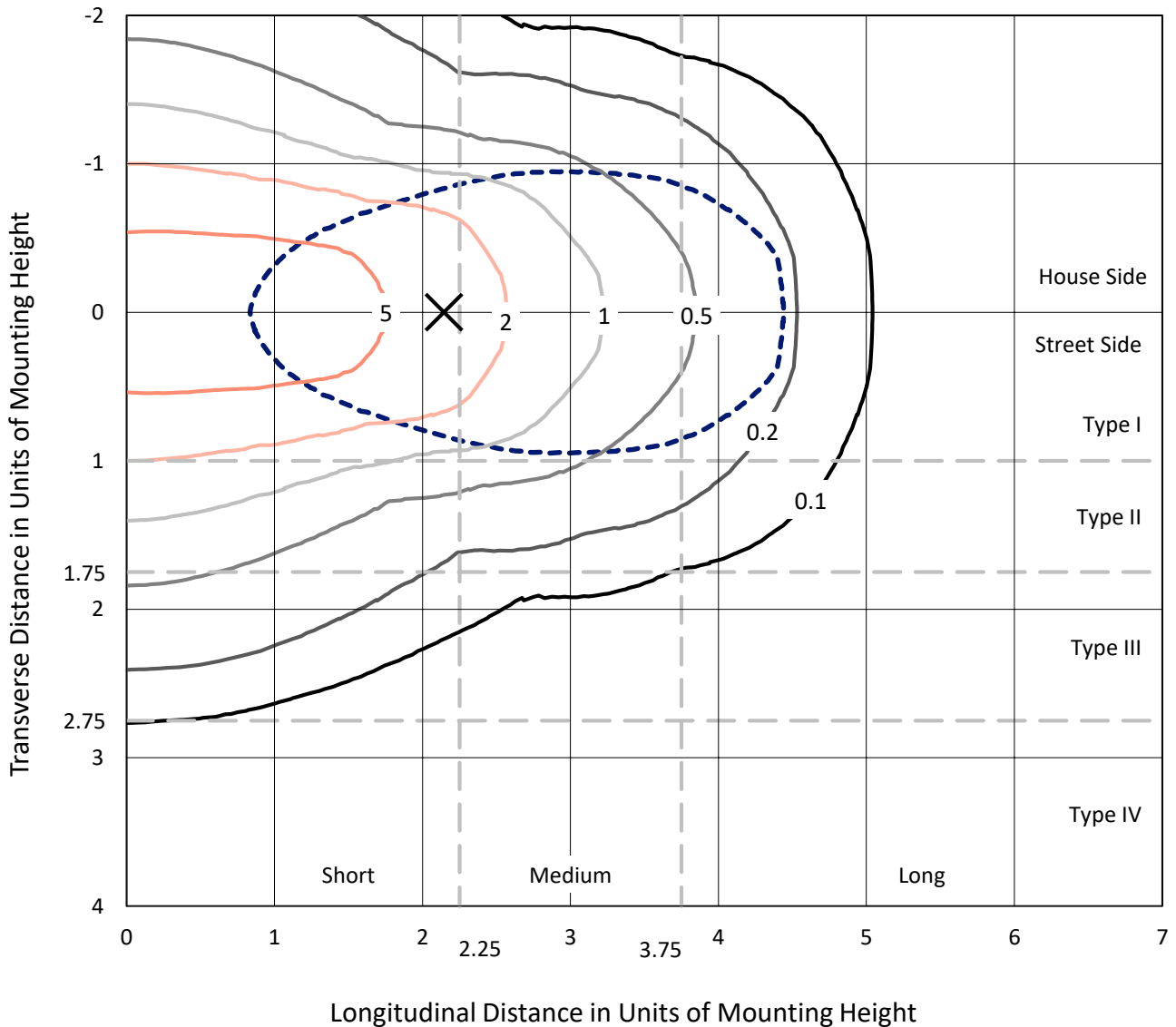
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

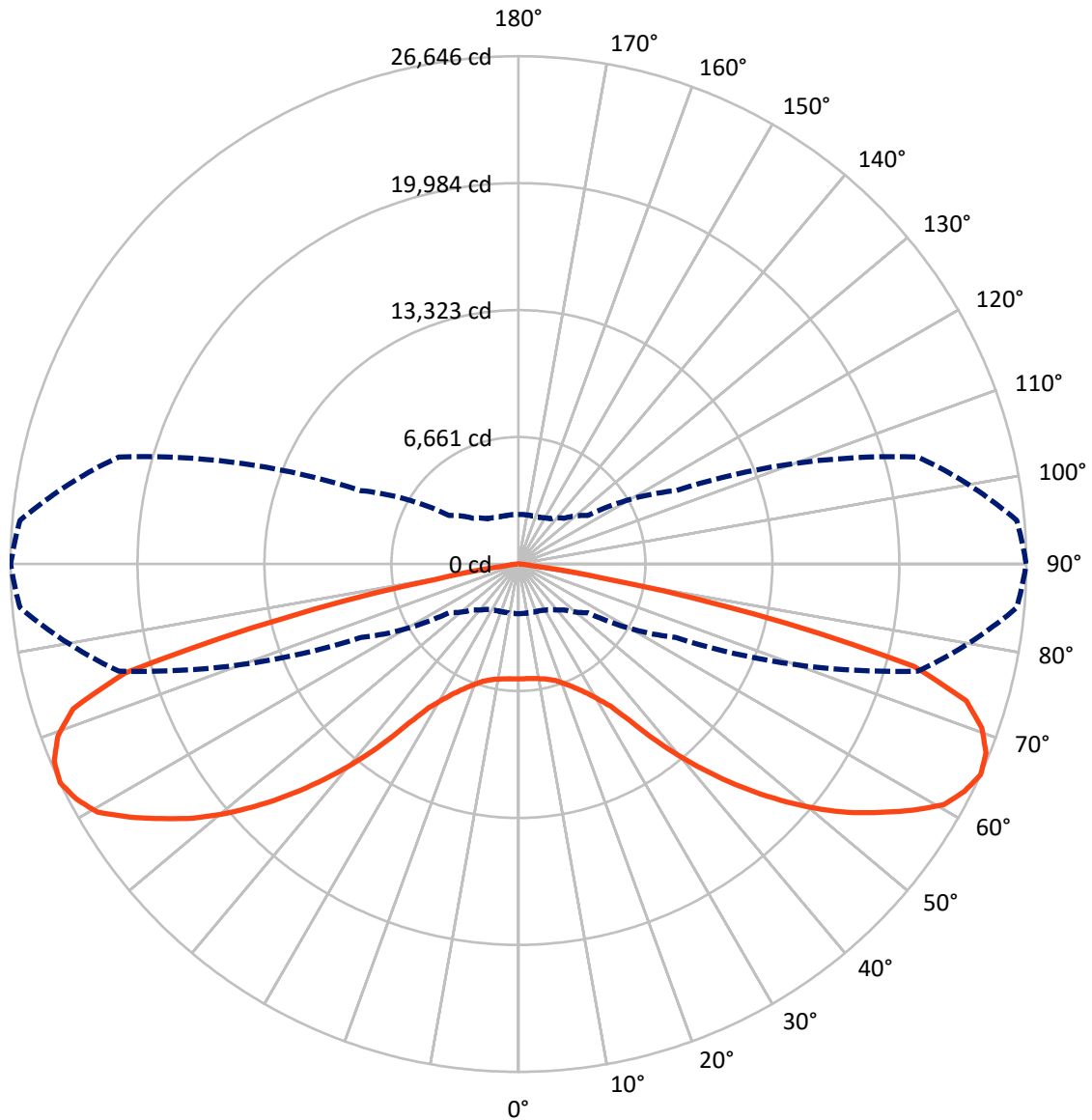
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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
<b>House Side</b>	Lumens	18336.5	0.0	18336.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18336.5	0.0	18336.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36673.0	0.0	36673.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.2	1.6
10°-20°	1705.0	4.6
20°-30°	2814.9	7.7
30°-40°	4124.6	11.2
40°-50°	6016.5	16.4
50°-60°	7789.4	21.2
60°-70°	8206.6	22.4
70°-80°	5008.8	13.7
80°-90°	433.0	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°	36673.0	100.0
0°-180°	36673.0	100.0



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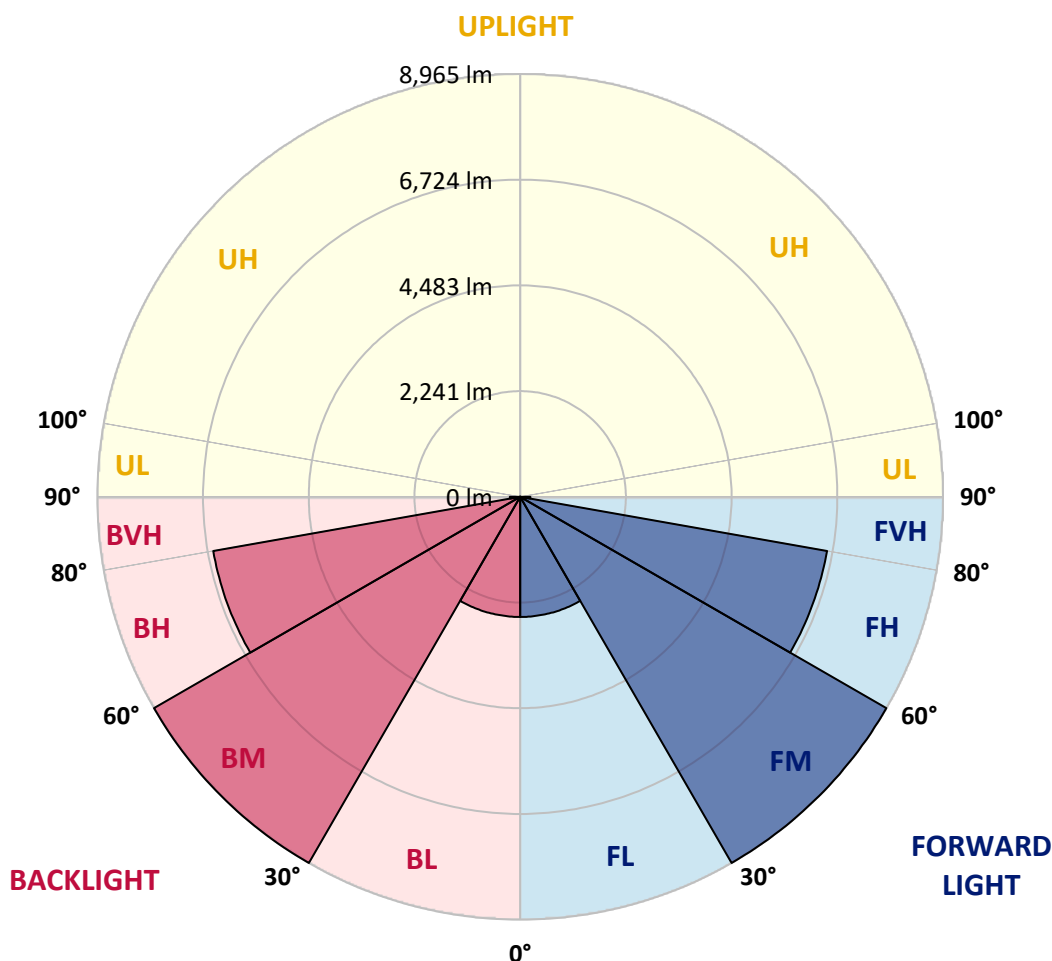
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2547.1	6.9			
FM	(30°-60°)	8965.2	24.4			
FH	(60°-80°)	6607.7	18.0			G3/7500
FVH	(80°-90°)	216.5	0.6			G2/225
BL	(0°-30°)	2547.1	6.9	B4/5000		
BM	(30°-60°)	8965.2	24.4	B5		
BH	(60°-80°)	6607.7	18.0	B5		G5
BVH	(80°-90°)	216.5	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°	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5	6033.5
2.5°	5983.6	6032.0	6039.8	6019.5	6021.0	6017.9	6030.4	6035.1	6041.3	6032.0	6027.3
5°	5974.2	6016.4	6024.2	6014.8	6027.3	6024.2	6030.4	6041.3	6039.8	6036.7	6036.7
7.5°	5924.2	5955.4	5980.4	5974.2	5977.3	5997.6	6019.5	6055.4	6072.6	6072.6	6069.5
10°	5858.6	5891.4	5933.6	5924.2	5944.5	5986.7	6030.4	6067.9	6111.6	6121.0	6121.0
12.5°	5788.3	5833.6	5874.2	5883.6	5930.4	5978.9	6058.5	6116.3	6166.3	6188.2	6186.6
15°	5694.6	5733.7	5782.1	5816.4	5891.4	5996.0	6100.7	6189.7	6261.6	6291.2	6295.9
17.5°	5569.7	5611.8	5663.4	5735.2	5866.4	6016.4	6178.8	6299.1	6408.4	6439.6	6439.6
20°	5405.7	5451.0	5513.4	5624.3	5802.4	6036.7	6253.8	6442.7	6584.9	6658.3	6669.2
22.5°	5151.1	5201.1	5302.6	5494.7	5729.0	6033.5	6342.8	6611.4	6825.4	6920.7	6931.6
25°	4868.4	4932.4	5076.1	5329.1	5638.4	6030.4	6431.8	6802.0	7087.8	7234.6	7265.9
27.5°	4618.5	4679.4	4855.9	5168.3	5554.0	6036.7	6520.8	7020.6	7433.0	7643.8	7670.4
30°	4373.3	4427.9	4624.7	4996.4	5475.9	6044.5	6634.9	7272.1	7825.0	8146.8	8210.8
32.5°	4171.8	4226.4	4417.0	4813.7	5380.7	6061.6	6780.1	7607.9	8370.1	8851.2	8891.8
35°	3995.3	4057.8	4224.9	4629.4	5254.2	6086.6	6962.8	8048.4	9151.0	10038.2	10085.0
37.5°	3842.2	3892.2	4040.6	4434.2	5121.4	6091.3	7175.3	8565.3	10160.0	11470.4	11790.6
40°	3740.7	3775.1	3889.1	4254.6	4946.5	6052.3	7418.9	9143.2	11284.6	13133.8	13499.3
42.5°	3648.5	3679.8	3770.4	4089.0	4763.7	5977.3	7645.4	9736.7	12410.7	14833.2	15178.3
45°	3537.7	3562.6	3654.8	3948.4	4585.7	5861.7	7832.8	10286.5	13575.8	16540.3	16865.2
47.5°	3447.1	3465.8	3543.9	3821.9	4387.3	5675.9	7912.5	10784.8	14825.3	18119.3	18522.3
50°	3384.6	3378.3	3447.1	3690.7	4184.3	5416.6	7845.3	11153.4	16142.0	19700.0	20134.2
52.5°	3276.8	3283.1	3348.7	3554.8	4015.6	5096.4	7582.9	11412.6	17466.5	21143.1	21657.0
55°	3165.9	3175.3	3226.8	3412.7	3837.5	4791.8	7097.2	11448.6	18851.9	22651.9	23001.8
57.5°	3047.2	3051.9	3095.6	3259.6	3639.2	4476.3	6484.9	11220.5	20137.3	24035.7	24366.9
60°	2942.6	2944.1	2973.8	3100.3	3418.9	4135.9	5772.7	10762.9	21172.8	25097.8	25636.7
62.5°	2802.0	2802.0	2820.8	2927.0	3194.0	3784.4	5088.6	10053.8	21738.2	25872.5	26264.5
65°	2600.5	2603.6	2622.4	2691.1	2898.8	3401.8	4446.7	9116.7	21703.8	26252.0	26645.6
67.5°	2214.7	2206.9	2319.4	2431.8	2594.3	3014.4	3817.2	8196.7	20916.7	26089.6	26458.2
70°	1604.0	1593.1	1658.7	1818.0	2210.1	2517.7	3244.0	7428.3	18655.1	25482.0	25788.2
72.5°	1316.7	1322.9	1326.0	1305.7	1479.1	2038.3	2709.9	6533.3	15392.3	23618.7	24571.5
75°	1041.8	1026.2	1043.3	1059.0	1105.8	1194.8	2192.9	5440.0	12491.9	19804.6	21411.8
77.5°	657.6	648.2	646.6	656.0	716.9	757.5	1343.2	3987.5	8691.8	12527.8	12634.0
80°	457.6	456.1	457.6	470.1	490.4	499.8	745.0	2185.1	4376.4	4562.2	4481.0
82.5°	324.9	313.9	304.6	328.0	317.1	307.7	448.3	1001.2	1180.8	804.4	652.9
85°	160.9	164.0	139.0	176.5	165.6	160.9	174.9	190.5	176.5	329.6	373.3
87.5°	45.3	43.7	48.4	56.2	54.7	62.5	56.2	60.9	71.8	125.0	123.4
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)