

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: P510123

Luminaire Tested: **VERD-M-CA4-210-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510123
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-CA4-210-730-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 960mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31370 lumens
Efficiency: N/A
Efficacy: 146.9 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

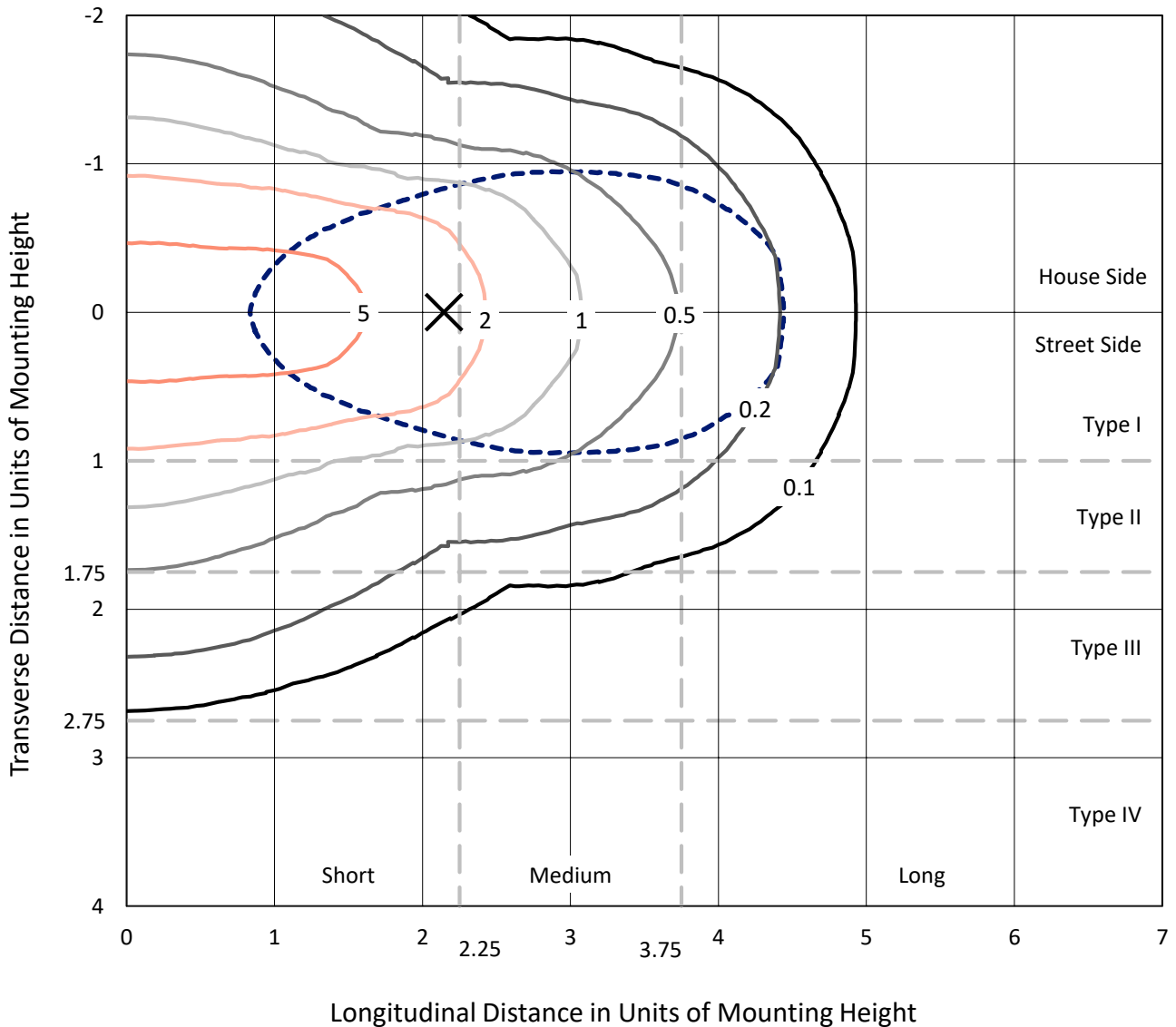
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510123
 CATALOG NUMBER: VERD-M-CA4-210-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

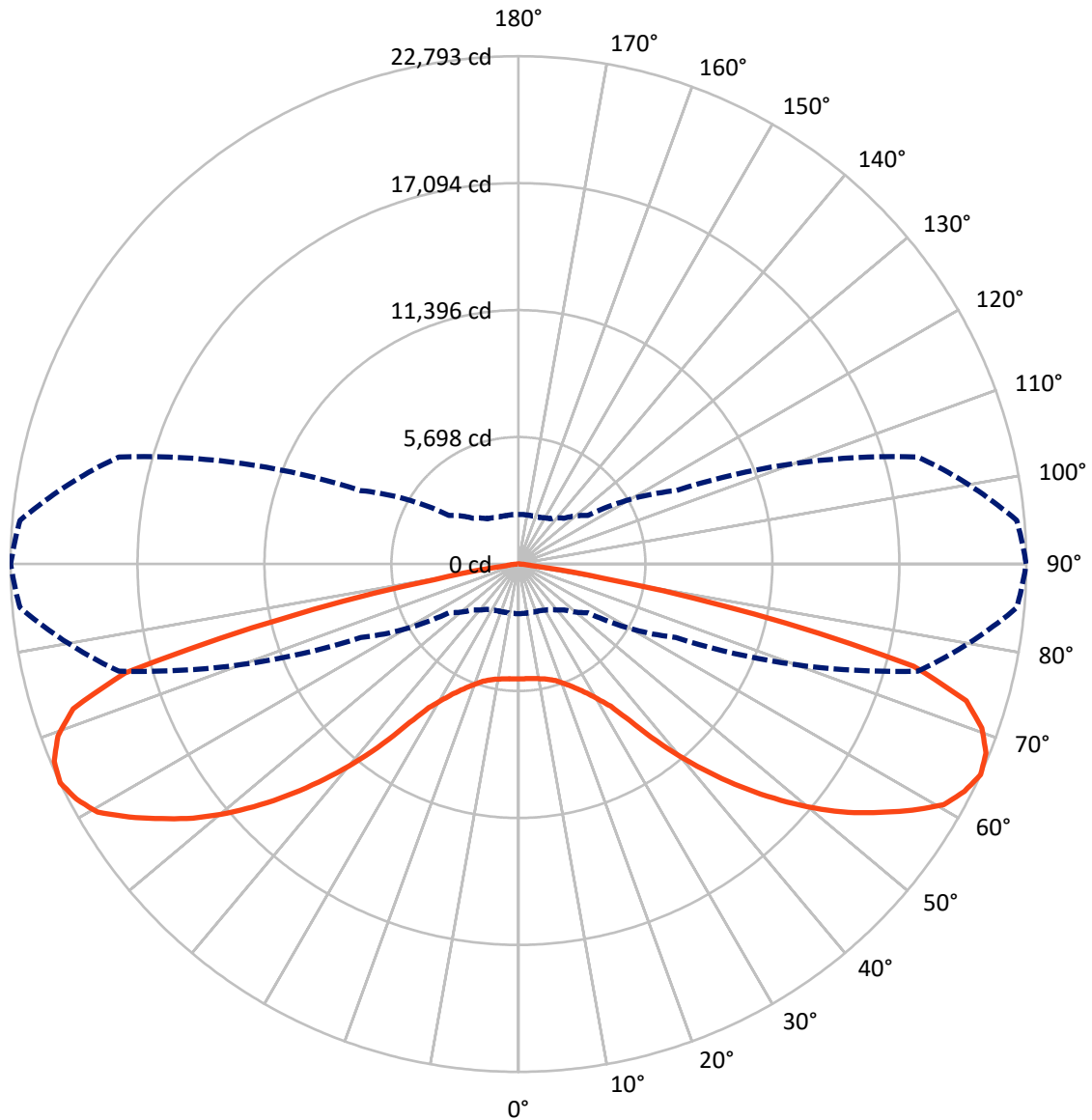
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type I - Short - N/A

REPORT NUMBER: P510123
CATALOG NUMBER: VERD-M-CA4-210-730-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P510123

CATALOG NUMBER: VERD-M-CA4-210-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15685.0	0.0	15685.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15685.0	0.0	15685.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31370.0	0.0	31370.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.2	1.6
10°-20°	1458.5	4.6
20°-30°	2407.9	7.7
30°-40°	3528.2	11.2
40°-50°	5146.5	16.4
50°-60°	6663.0	21.2
60°-70°	7019.9	22.4
70°-80°	4284.5	13.7
80°-90°	370.4	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°	31370.0	100.0
0°-180°	31370.0	100.0



REPORT NUMBER: P510123

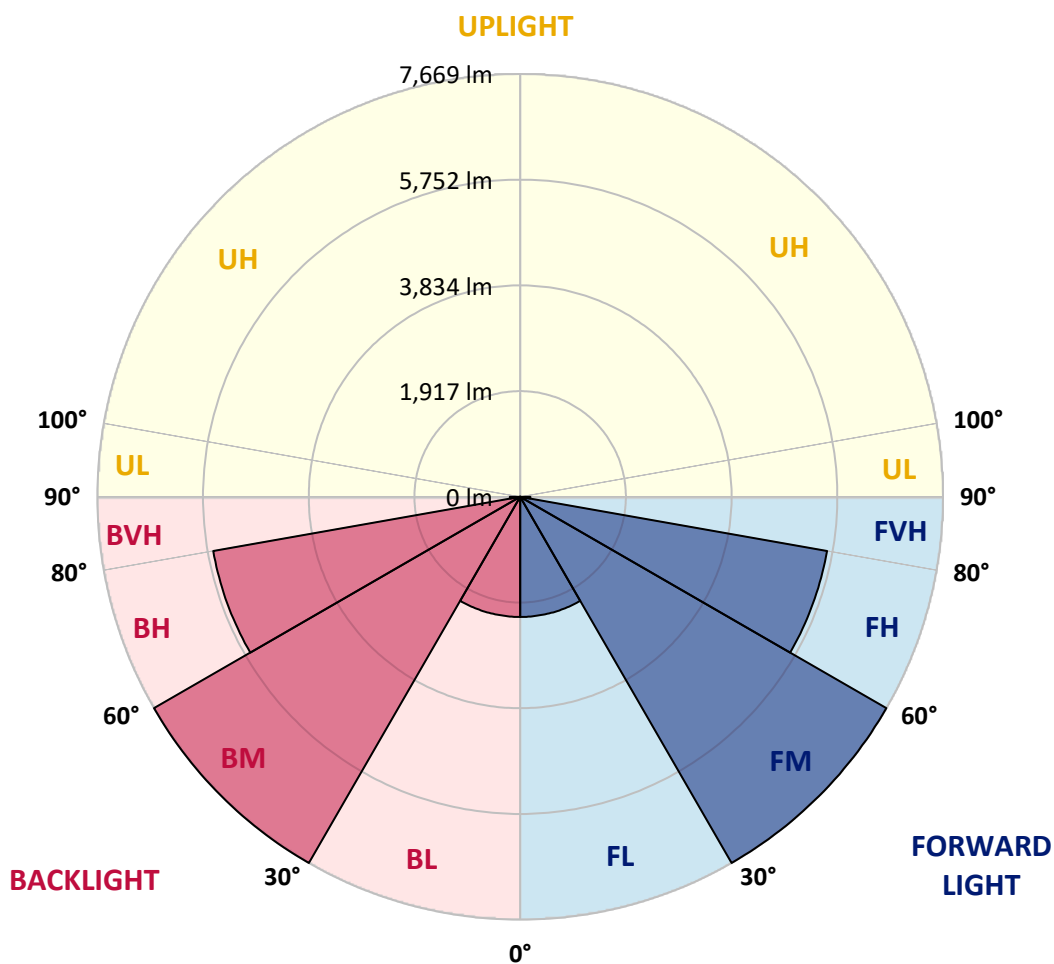
CATALOG NUMBER: VERD-M-CA4-210-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2178.8	6.9			
FM	(30°-60°)	7668.8	24.4			
FH	(60°-80°)	5652.2	18.0			G3/7500
FVH	(80°-90°)	185.2	0.6			G2/225
BL	(0°-30°)	2178.8	6.9	B3/2500		
BM	(30°-60°)	7668.8	24.4	B4/8500		
BH	(60°-80°)	5652.2	18.0	B5		G5
BVH	(80°-90°)	185.2	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





REPORT NUMBER: P510123

CATALOG NUMBER: VERD-M-CA4-210-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1
2.5°	5118.3	5159.7	5166.4	5149.0	5150.4	5147.7	5158.4	5162.4	5167.8	5159.7	5155.7
5°	5110.3	5146.4	5153.1	5145.0	5155.7	5153.1	5158.4	5167.8	5166.4	5163.7	5163.7
7.5°	5067.5	5094.3	5115.6	5110.3	5113.0	5130.3	5149.0	5179.8	5194.5	5194.5	5191.8
10°	5011.4	5039.5	5075.6	5067.5	5084.9	5121.0	5158.4	5190.5	5227.9	5235.9	5235.9
12.5°	4951.3	4990.1	5024.8	5032.8	5072.9	5114.3	5182.4	5231.9	5274.6	5293.3	5292.0
15°	4871.2	4904.6	4946.0	4975.4	5039.5	5129.0	5218.5	5294.7	5356.1	5381.5	5385.5
17.5°	4764.3	4800.3	4844.4	4905.9	5018.1	5146.4	5285.3	5388.2	5481.7	5508.4	5508.4
20°	4624.0	4662.7	4716.2	4811.0	4963.3	5163.7	5349.4	5511.1	5632.7	5695.5	5704.8
22.5°	4406.2	4449.0	4535.8	4700.1	4900.5	5161.1	5425.6	5655.4	5838.4	5919.9	5929.3
25°	4164.4	4219.2	4342.1	4558.5	4823.1	5158.4	5501.8	5818.4	6062.9	6188.5	6215.2
27.5°	3950.6	4002.7	4153.7	4420.9	4750.9	5163.7	5577.9	6005.4	6358.1	6538.5	6561.2
30°	3740.9	3787.6	3956.0	4273.9	4684.1	5170.4	5675.4	6220.5	6693.5	6968.7	7023.5
32.5°	3568.5	3615.3	3778.3	4117.6	4602.6	5185.1	5799.7	6507.8	7159.8	7571.3	7606.0
35°	3417.6	3471.0	3614.0	3960.0	4494.4	5206.5	5956.0	6884.5	7827.8	8586.6	8626.7
37.5°	3286.6	3329.4	3456.3	3793.0	4380.8	5210.5	6137.7	7326.8	8690.9	9811.8	10085.7
40°	3199.8	3229.2	3326.7	3639.3	4231.2	5177.1	6346.1	7821.1	9652.8	11234.6	11547.3
42.5°	3121.0	3147.7	3225.2	3497.7	4074.9	5113.0	6539.8	8328.8	10616.1	12688.2	12983.5
45°	3026.1	3047.5	3126.3	3377.5	3922.6	5014.1	6700.2	8799.1	11612.7	14148.5	14426.4
47.5°	2948.6	2964.6	3031.4	3269.3	3752.9	4855.1	6768.3	9225.3	12681.6	15499.2	15843.9
50°	2895.2	2889.8	2948.6	3157.0	3579.2	4633.3	6710.9	9540.6	13807.8	16851.3	17222.7
52.5°	2803.0	2808.3	2864.4	3040.8	3434.9	4359.5	6486.4	9762.3	14940.8	18085.8	18525.3
55°	2708.1	2716.1	2760.2	2919.2	3282.6	4098.9	6070.9	9793.1	16125.8	19376.4	19675.7
57.5°	2606.6	2610.6	2648.0	2788.3	3112.9	3829.1	5547.2	9598.0	17225.4	20560.1	20843.3
60°	2517.1	2518.4	2543.8	2652.0	2924.6	3537.8	4938.0	9206.6	18111.2	21468.6	21929.5
62.5°	2396.8	2396.8	2412.9	2503.7	2732.2	3237.2	4352.8	8600.0	18594.8	22131.3	22466.6
65°	2224.5	2227.2	2243.2	2302.0	2479.7	2909.9	3803.7	7798.4	18565.4	22455.9	22792.6
67.5°	1894.5	1887.8	1984.0	2080.2	2219.1	2578.5	3265.2	7011.5	17892.1	22317.0	22632.3
70°	1372.1	1362.7	1418.9	1555.1	1890.5	2153.7	2774.9	6354.1	15957.5	21797.3	22059.1
72.5°	1126.3	1131.6	1134.3	1116.9	1265.2	1743.5	2318.0	5588.6	13166.5	20203.4	21018.4
75°	891.1	877.8	892.5	905.8	945.9	1022.1	1875.8	4653.4	10685.5	16940.8	18315.6
77.5°	562.5	554.5	553.1	561.1	613.2	648.0	1149.0	3410.9	7435.0	10716.3	10807.1
80°	391.5	390.1	391.5	402.1	419.5	427.5	637.3	1869.1	3743.5	3902.5	3833.1
82.5°	277.9	268.5	260.5	280.6	271.2	263.2	383.4	856.4	1010.0	688.1	558.5
85°	137.6	140.3	118.9	151.0	141.6	137.6	149.6	163.0	151.0	281.9	319.3
87.5°	38.7	37.4	41.4	48.1	46.8	53.4	48.1	52.1	61.5	106.9	105.5
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)