

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: P509835

Luminaire Tested: **VERD-M-CA3-150-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509835
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-CA3-150-730-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 940mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23055 lumens
Efficiency: N/A
Efficacy: 150.7 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

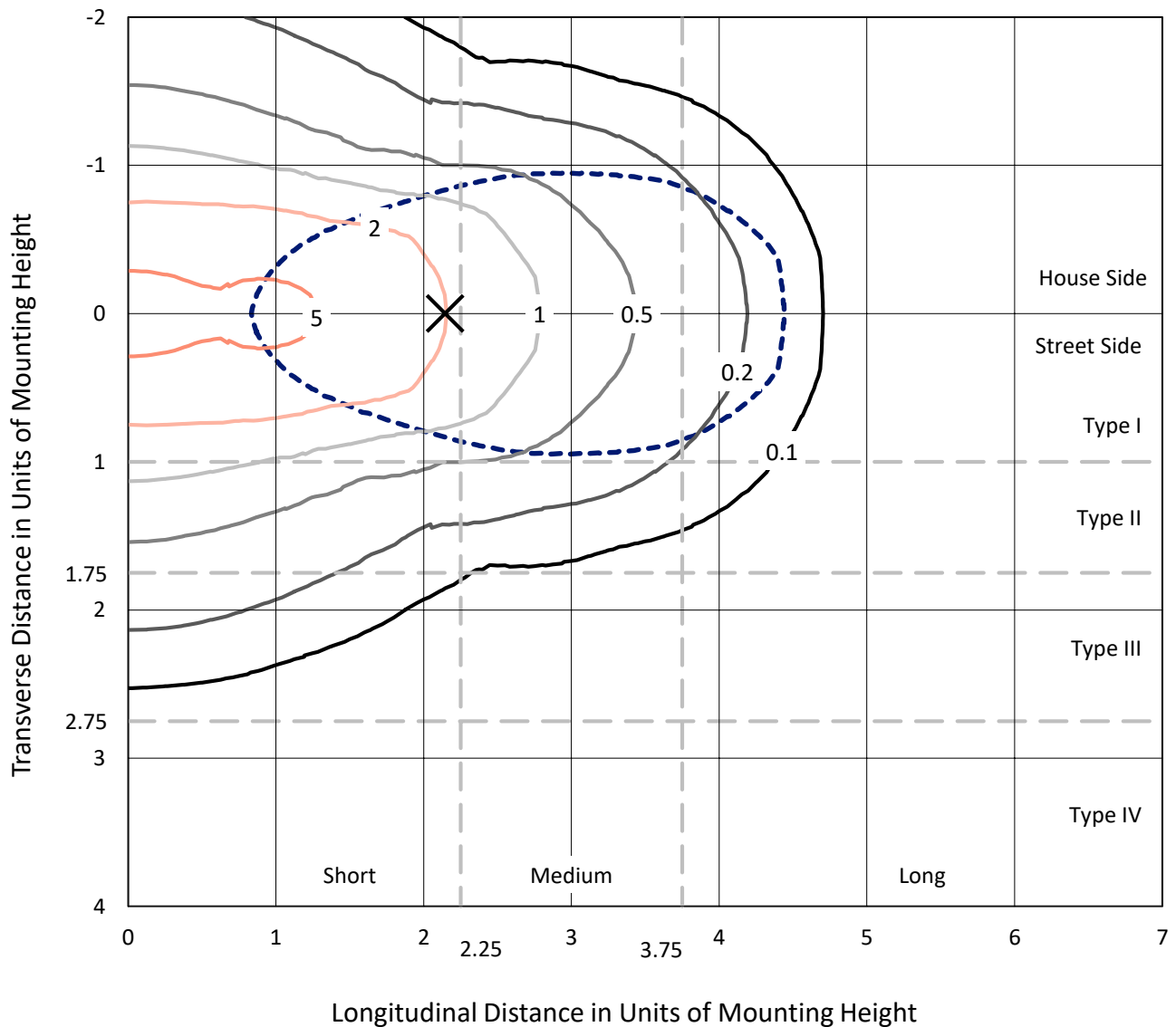
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

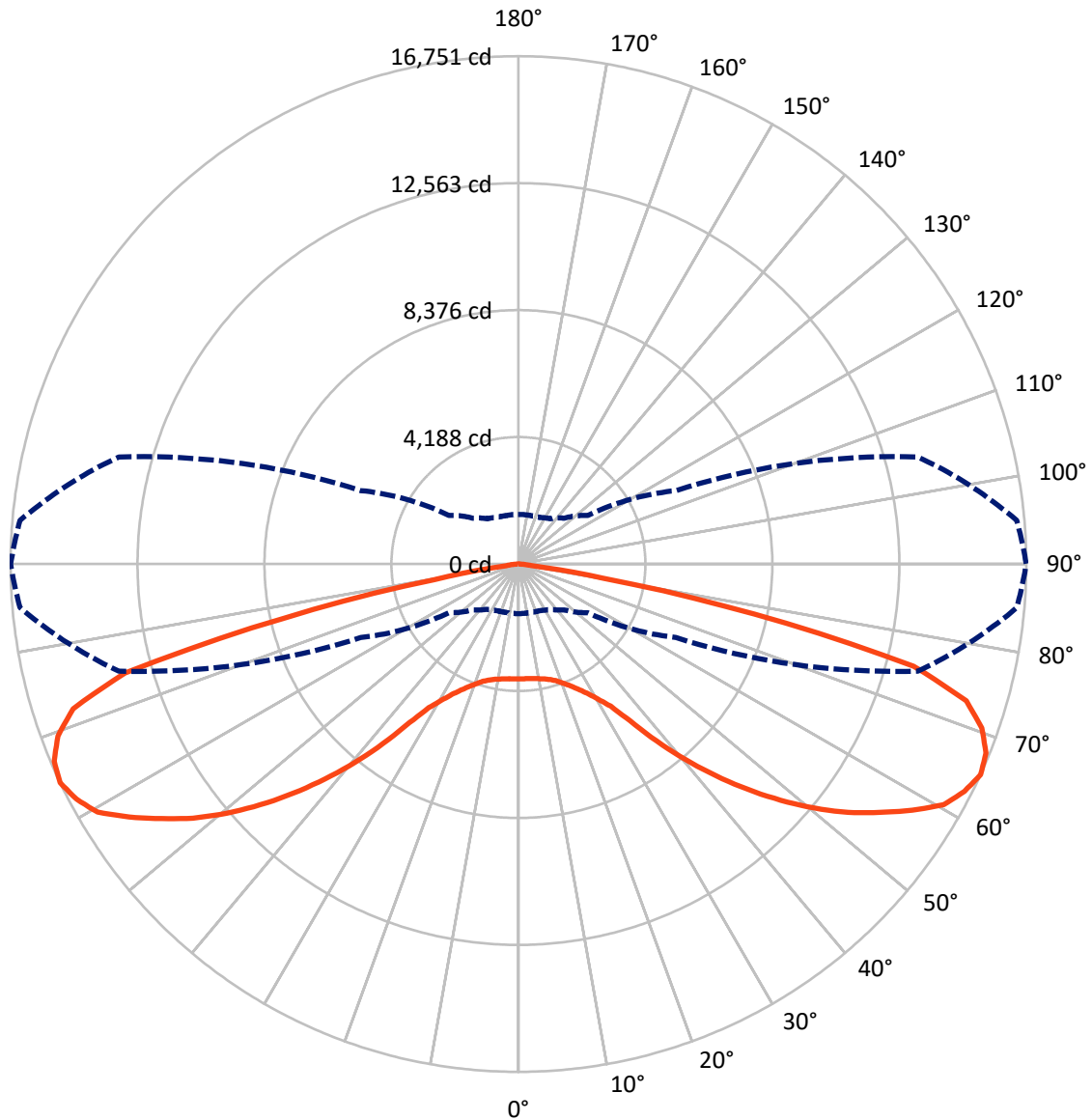
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	11527.5	0.0	11527.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11527.5	0.0	11527.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23055.0	0.0	23055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	1.6
10°-20°	1071.9	4.6
20°-30°	1769.6	7.7
30°-40°	2593.0	11.2
40°-50°	3782.3	16.4
50°-60°	4896.9	21.2
60°-70°	5159.2	22.4
70°-80°	3148.9	13.7
80°-90°	272.2	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°	23055.0	100.0
0°-180°	23055.0	100.0



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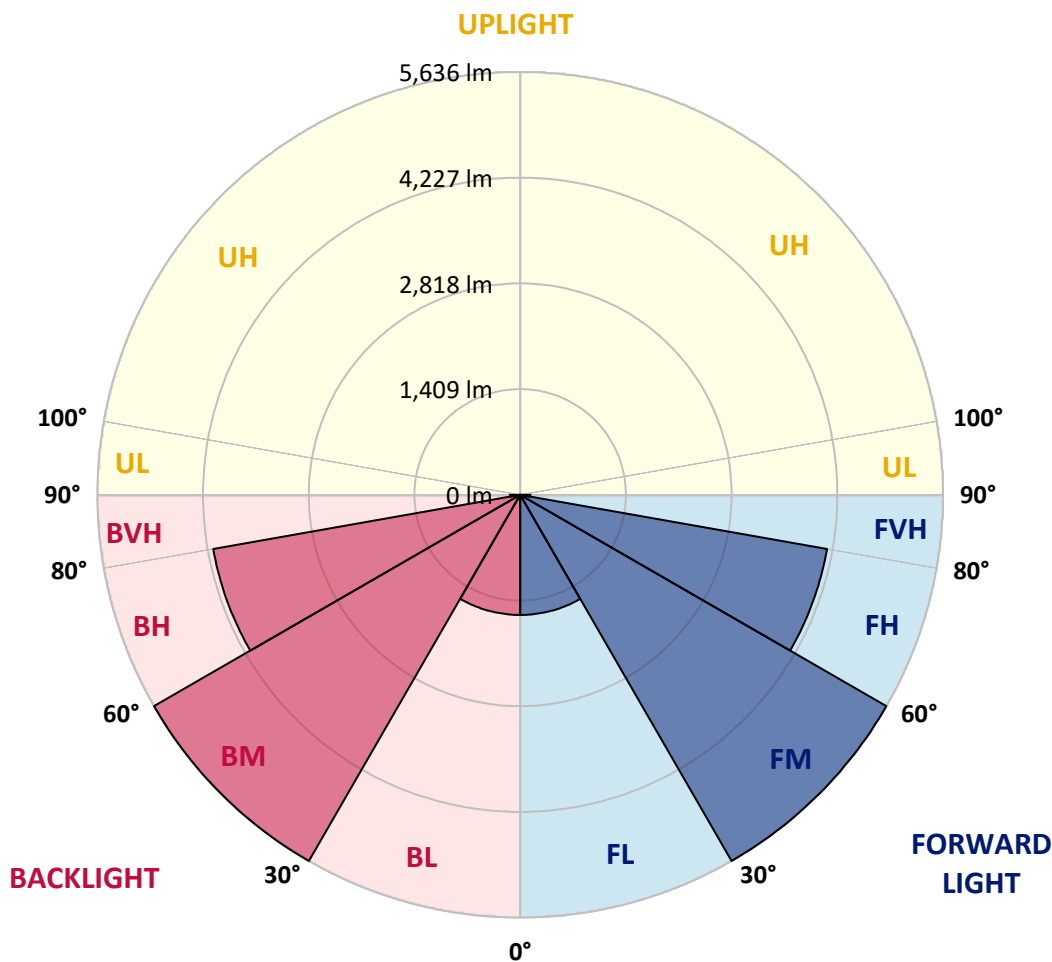
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1601.2	6.9			
FM	(30°-60°)	5636.1	24.4			
FH	(60°-80°)	4154.0	18.0			G2/5000
FVH	(80°-90°)	136.1	0.6			G2/225
BL	(0°-30°)	1601.2	6.9	B3/2500		
BM	(30°-60°)	5636.1	24.4	B4/8500		
BH	(60°-80°)	4154.0	18.0	B4/5000		G4/5000
BVH	(80°-90°)	136.1	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°	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1	3793.1
2.5°	3761.6	3792.1	3797.0	3784.2	3785.2	3783.2	3791.1	3794.0	3798.0	3792.1	3789.1
5°	3755.8	3782.3	3787.2	3781.3	3789.1	3787.2	3791.1	3798.0	3797.0	3795.0	3795.0
7.5°	3724.3	3744.0	3759.7	3755.8	3757.7	3770.5	3784.2	3806.8	3817.6	3817.6	3815.6
10°	3683.1	3703.7	3730.2	3724.3	3737.1	3763.6	3791.1	3814.7	3842.2	3848.1	3848.1
12.5°	3638.9	3667.4	3692.9	3698.8	3728.3	3758.7	3808.8	3845.1	3876.5	3890.3	3889.3
15°	3580.0	3604.5	3635.0	3656.6	3703.7	3769.5	3835.3	3891.3	3936.4	3955.1	3958.0
17.5°	3501.4	3528.0	3560.4	3605.5	3688.0	3782.3	3884.4	3960.0	4028.7	4048.4	4048.4
20°	3398.3	3426.8	3466.1	3535.8	3647.7	3795.0	3931.5	4050.3	4139.7	4185.8	4192.7
22.5°	3238.3	3269.7	3333.5	3454.3	3601.6	3793.1	3987.5	4156.4	4290.9	4350.8	4357.7
25°	3060.6	3100.8	3191.2	3350.2	3544.6	3791.1	4043.4	4276.2	4455.8	4548.1	4567.8
27.5°	2903.5	2941.8	3052.7	3249.1	3491.6	3795.0	4099.4	4413.6	4672.8	4805.4	4822.1
30°	2749.3	2783.7	2907.4	3141.1	3442.5	3799.9	4171.1	4571.7	4919.3	5121.6	5161.8
32.5°	2622.6	2657.0	2776.8	3026.2	3382.6	3810.7	4262.4	4782.8	5262.0	5564.4	5589.9
35°	2511.7	2551.0	2656.0	2910.3	3303.1	3826.5	4377.3	5059.7	5752.9	6310.6	6340.1
37.5°	2415.5	2446.9	2540.2	2787.6	3219.6	3829.4	4510.8	5384.7	6387.2	7211.0	7412.3
40°	2351.6	2373.2	2444.9	2674.7	3109.7	3804.8	4664.0	5748.0	7094.2	8256.8	8486.5
42.5°	2293.7	2313.3	2370.3	2570.6	2994.8	3757.7	4806.4	6121.1	7802.1	9325.1	9542.1
45°	2224.0	2239.7	2297.6	2482.2	2882.8	3685.1	4924.2	6466.8	8534.6	10398.3	10602.5
47.5°	2167.0	2178.8	2227.9	2402.7	2758.1	3568.2	4974.3	6780.0	9320.2	11391.0	11644.3
50°	2127.8	2123.8	2167.0	2320.2	2630.5	3405.2	4932.1	7011.7	10147.9	12384.7	12657.6
52.5°	2060.0	2063.9	2105.2	2234.8	2524.5	3203.9	4767.1	7174.7	10980.5	13291.9	13615.0
55°	1990.3	1996.2	2028.6	2145.4	2412.5	3012.5	4461.7	7197.3	11851.5	14240.4	14460.4
57.5°	1915.7	1918.6	1946.1	2049.2	2287.8	2814.1	4076.8	7053.9	12659.6	15110.4	15318.6
60°	1849.9	1850.9	1869.5	1949.1	2149.4	2600.1	3629.1	6766.2	13310.6	15778.1	16116.8
62.5°	1761.5	1761.5	1773.3	1840.1	2008.0	2379.1	3199.0	6320.5	13666.0	16265.1	16511.6
65°	1634.9	1636.8	1648.6	1691.8	1822.4	2138.6	2795.5	5731.3	13644.4	16503.7	16751.2
67.5°	1392.3	1387.4	1458.1	1528.8	1630.9	1895.1	2399.8	5153.0	13149.6	16401.6	16633.3
70°	1008.4	1001.5	1042.8	1142.9	1389.4	1582.8	2039.4	4669.9	11727.8	16019.6	16212.1
72.5°	827.7	831.7	833.6	820.9	929.9	1281.4	1703.6	4107.3	9676.6	14848.2	15447.2
75°	654.9	645.1	655.9	665.7	695.2	751.2	1378.6	3419.9	7853.2	12450.4	13460.8
77.5°	413.4	407.5	406.5	412.4	450.7	476.2	844.4	2506.8	5464.3	7875.8	7942.6
80°	287.7	286.7	287.7	295.6	308.3	314.2	468.4	1373.7	2751.3	2868.1	2817.1
82.5°	204.2	197.4	191.5	206.2	199.3	193.4	281.8	629.4	742.3	505.7	410.4
85°	101.1	103.1	87.4	111.0	104.1	101.1	110.0	119.8	111.0	207.2	234.7
87.5°	28.5	27.5	30.4	35.3	34.4	39.3	35.3	38.3	45.2	78.6	77.6
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)