

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: P510194

Luminaire Tested: **VERD-M-CA4-220-750-U-T5**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-220-750-U-T5
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1000mA LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32715 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

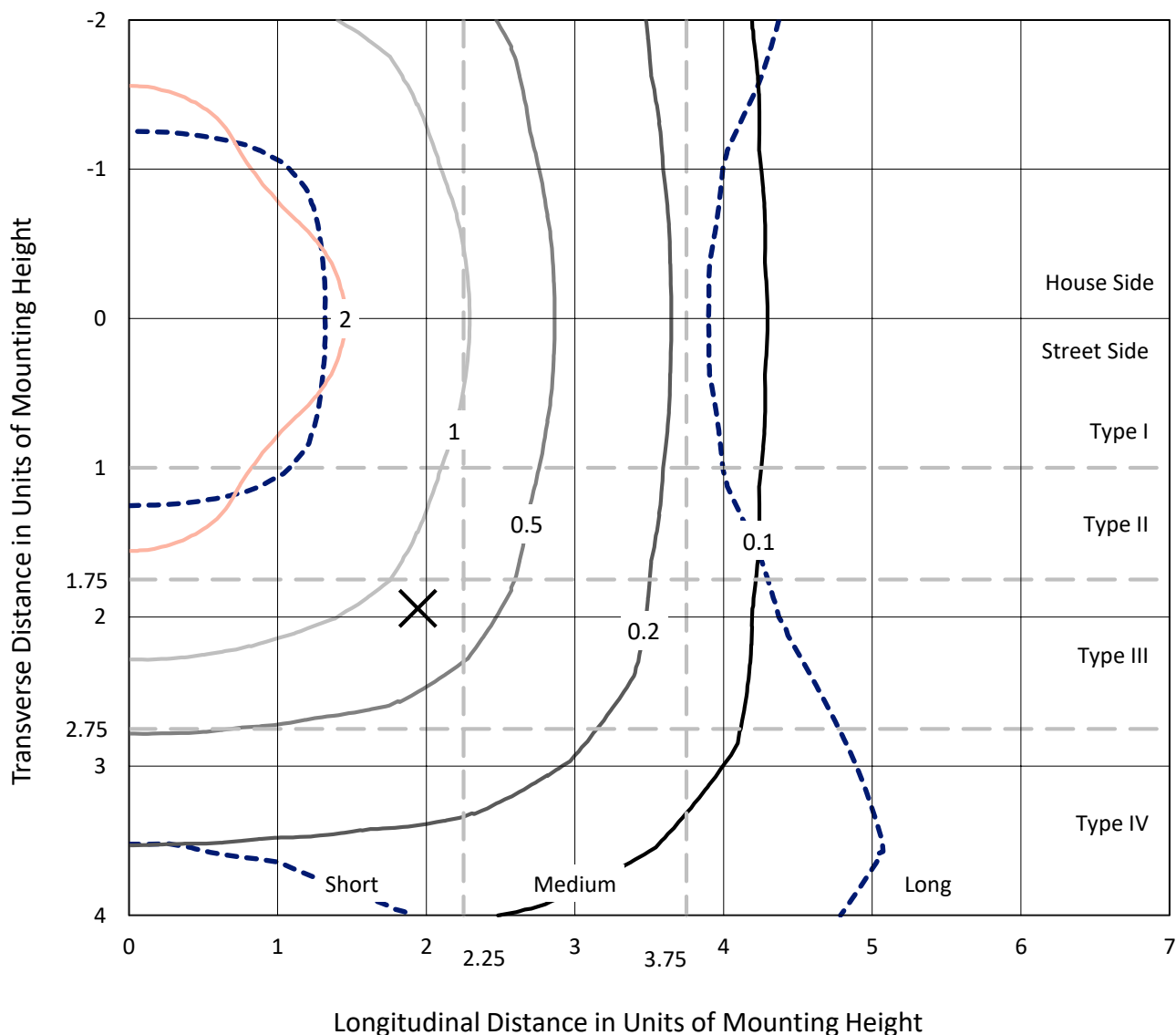
Input Watts (W): 222.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

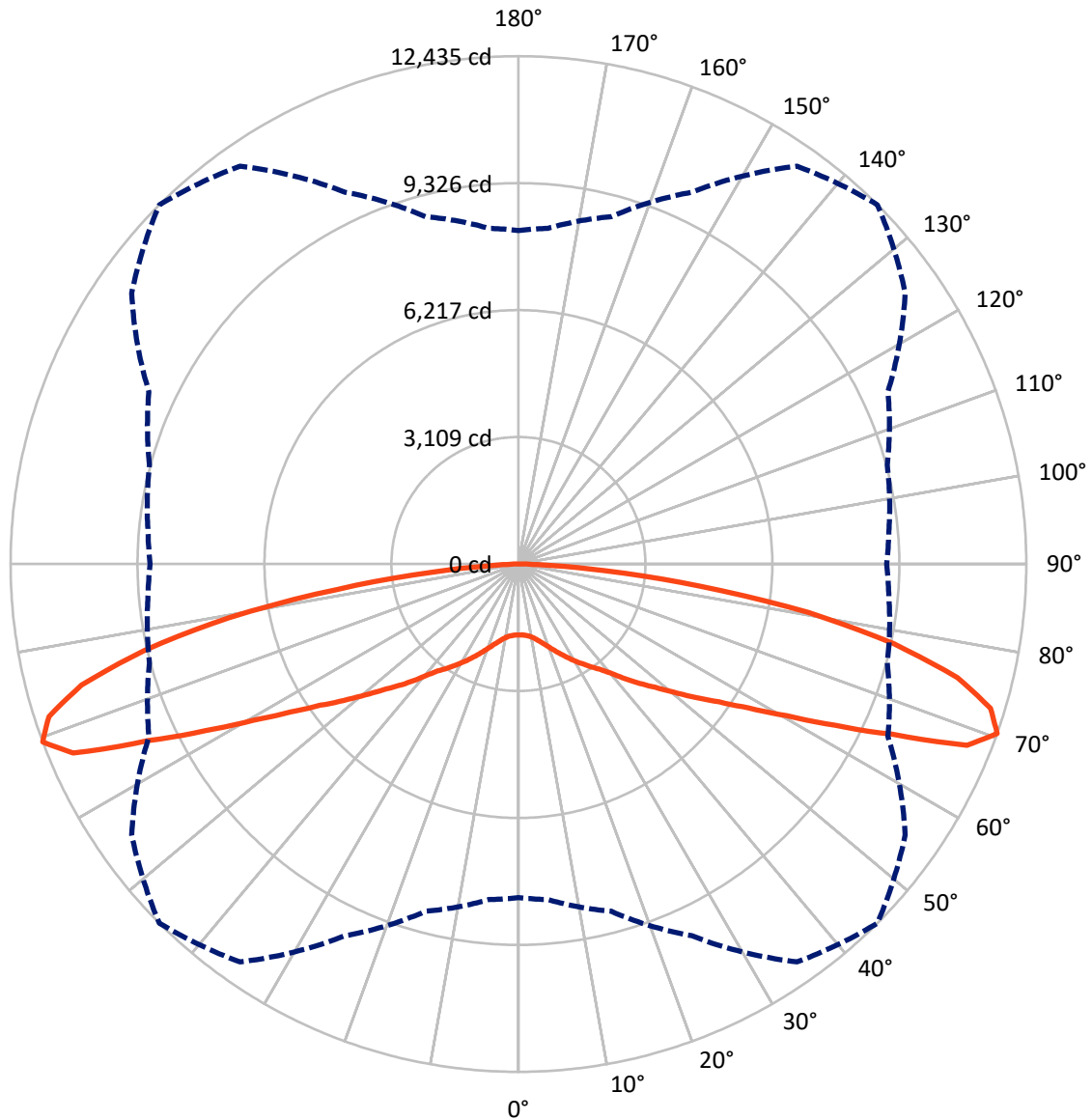
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

REPORT NUMBER: P510194
CATALOG NUMBER: VERD-M-CA4-220-750-U-T5

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: VERD-M-CA4-220-750-U-T5

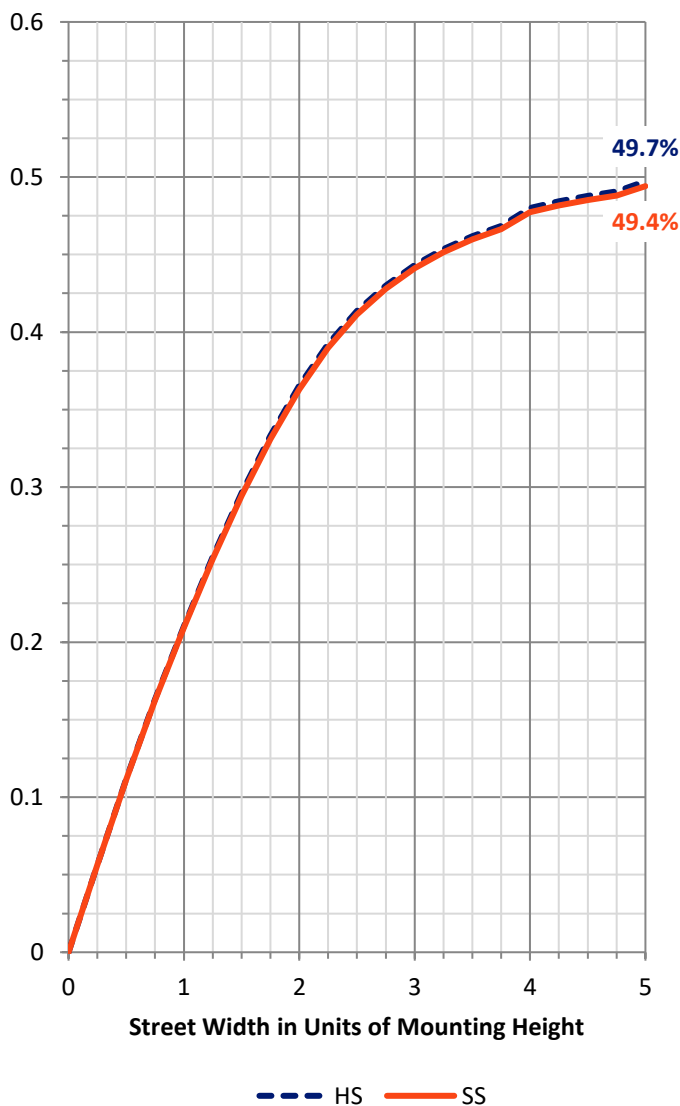
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16357.5	0.0	16357.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16357.5	0.0	16357.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32715.0	0.0	32715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	0.5
10°-20°	563.3	1.7
20°-30°	1126.5	3.4
30°-40°	1960.0	6.0
40°-50°	3410.0	10.4
50°-60°	5937.2	18.1
60°-70°	9615.8	29.4
70°-80°	8249.3	25.2
80°-90°	1682.7	5.1
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°	32715.0	100.0
0°-180°	32715.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510194

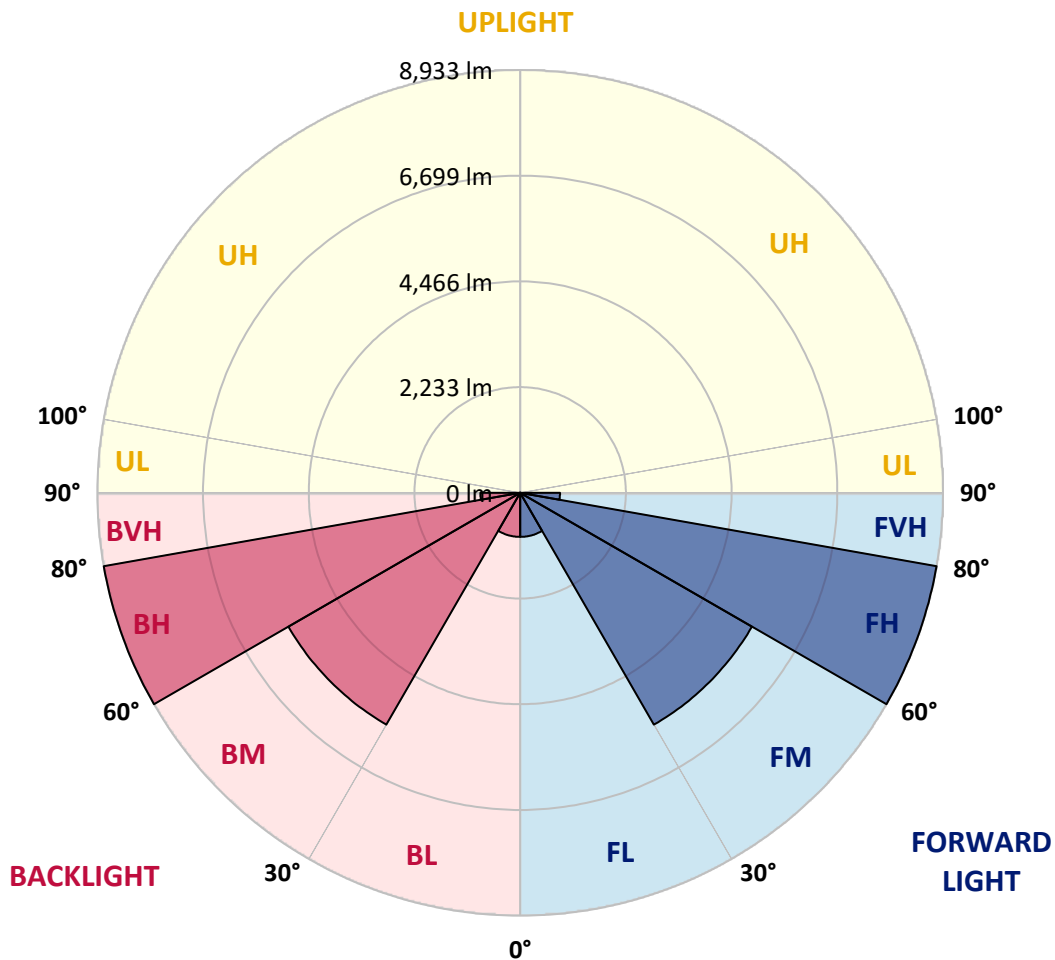
CATALOG NUMBER: VERD-M-CA4-220-750-U-T5

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	929.9	2.8			
FM (30°-60°)	5653.6	17.3			
FH (60°-80°)	8932.6	27.3			G4/12000
FVH (80°-90°)	841.3	2.6			G5
BL (0°-30°)	929.9	2.8	B2/1000		
BM (30°-60°)	5653.6	17.3	B4/8500		
BH (60°-80°)	8932.6	27.3	B5		G4/12000
BVH (80°-90°)	841.3	2.6			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1	1740.1
2.5°	1734.3	1744.4	1742.9	1740.1	1735.7	1735.7	1738.6	1748.7	1750.1	1750.1	1750.1
5°	1754.4	1764.5	1763.0	1760.2	1755.8	1754.4	1757.3	1767.3	1768.8	1768.8	1770.2
7.5°	1777.4	1788.9	1788.9	1787.4	1777.4	1777.4	1780.3	1793.2	1793.2	1796.0	1798.9
10°	1816.1	1829.1	1833.4	1827.6	1821.9	1819.0	1821.9	1834.8	1833.4	1830.5	1831.9
12.5°	1869.3	1882.2	1892.2	1890.8	1885.1	1882.2	1885.1	1892.2	1883.6	1872.1	1872.1
15°	1935.3	1952.5	1964.0	1964.0	1971.2	1966.9	1962.6	1964.0	1951.1	1941.0	1941.0
17.5°	2020.0	2034.4	2044.4	2053.0	2064.5	2064.5	2054.5	2051.6	2034.4	2025.8	2027.2
20°	2123.4	2134.9	2149.2	2156.4	2179.4	2180.8	2163.6	2156.4	2139.2	2127.7	2130.6
22.5°	2235.4	2255.5	2261.2	2282.7	2310.0	2311.5	2288.5	2272.7	2255.5	2246.8	2248.3
25°	2370.3	2390.4	2386.1	2404.8	2446.4	2450.7	2424.9	2401.9	2387.5	2378.9	2381.8
27.5°	2518.2	2538.3	2536.9	2536.9	2585.7	2604.3	2568.4	2544.0	2546.9	2531.1	2536.9
30°	2676.1	2693.3	2703.4	2686.2	2733.5	2763.7	2706.3	2709.1	2707.7	2697.7	2696.2
32.5°	2861.3	2877.1	2875.7	2864.2	2878.5	2921.6	2875.7	2890.0	2894.3	2895.8	2907.3
35°	3072.4	3091.0	3070.9	3055.1	3056.6	3098.2	3063.8	3086.7	3109.7	3118.3	3118.3
37.5°	3297.8	3307.8	3286.3	3261.9	3256.1	3279.1	3273.4	3310.7	3349.5	3371.0	3382.5
40°	3589.2	3597.8	3556.2	3508.8	3500.2	3526.0	3533.2	3615.1	3673.9	3714.1	3721.3
42.5°	3994.1	3992.6	3933.8	3846.2	3804.6	3844.8	3896.5	3991.2	4090.3	4098.9	4129.0
45°	4515.2	4495.1	4419.0	4288.4	4183.6	4169.2	4231.0	4371.7	4482.2	4529.6	4548.3
47.5°	5109.6	5086.6	4948.8	4746.4	4566.9	4510.9	4562.6	4739.2	4904.3	4973.2	5010.5
50°	5772.9	5745.6	5606.4	5332.1	5033.5	4931.6	4963.2	5182.8	5375.2	5462.8	5528.8
52.5°	6486.4	6482.1	6304.1	5988.2	5589.1	5424.0	5414.0	5678.1	5936.6	6052.9	6088.7
55°	7251.6	7230.1	7070.8	6727.6	6265.3	5956.7	5958.1	6251.0	6566.8	6719.0	6736.2
57.5°	8002.5	7993.9	7817.3	7524.4	7052.1	6645.8	6605.6	6994.7	7313.4	7438.3	7444.0
60°	8711.7	8739.0	8647.1	8378.7	7998.2	7538.8	7479.9	7808.7	8080.0	8187.7	8226.5
62.5°	9501.4	9510.0	9498.5	9300.4	9010.4	8700.3	8555.3	8723.2	8991.7	9080.7	9062.0
65°	10065.6	10121.6	10252.2	10354.2	10292.4	10055.5	9864.6	9873.2	9926.3	9868.9	9864.6
67.5°	9346.3	9468.3	9913.4	10629.8	11474.0	11843.0	11067.7	10202.0	9880.4	9672.2	9670.8
70°	8166.2	8248.0	8803.6	10042.6	11891.8	12434.5	11560.1	9980.9	9350.6	9103.7	9016.1
72.5°	6947.3	7011.9	7623.5	8888.3	11228.5	12085.6	11245.7	9332.0	8502.1	7958.0	7968.1
75°	5785.8	5775.8	6238.1	7537.4	9939.3	11099.3	10413.0	8305.4	7123.9	6628.6	6572.6
77.5°	4011.3	4103.2	4628.7	5956.7	8058.5	9392.3	9291.8	6836.7	5459.9	4931.6	4966.0
80°	2101.8	2159.3	2782.4	4044.3	5896.4	7204.3	7072.2	4835.4	3527.5	2943.2	2832.6
82.5°	875.8	913.1	1272.0	2185.1	3603.6	4483.6	4423.3	2947.5	1966.9	1369.6	1366.8
85°	371.8	373.3	539.8	936.1	1819.0	2130.6	1709.9	1266.3	689.1	432.1	386.2
87.5°	157.9	163.7	219.7	429.3	575.7	465.2	274.2	169.4	113.4	68.9	53.1
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)