

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: P510090

Luminaire Tested: **VERD-M-CA4-200-740-U-T5**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510090  
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-CA4-200-740-U-T5  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 910mA LEDS AND TYPE V OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29621 lumens  
Efficiency: N/A  
Efficacy: 146.8 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

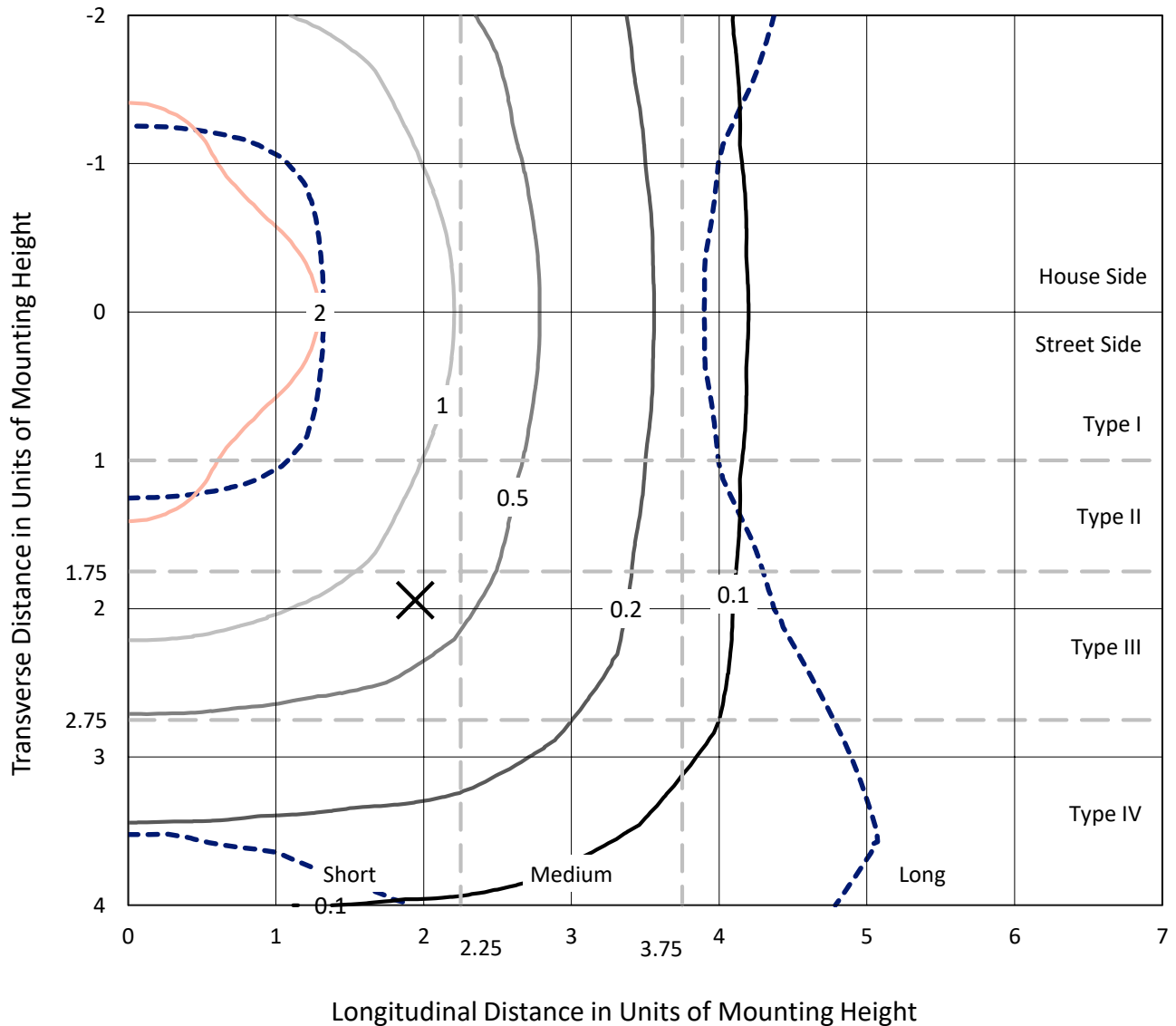
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

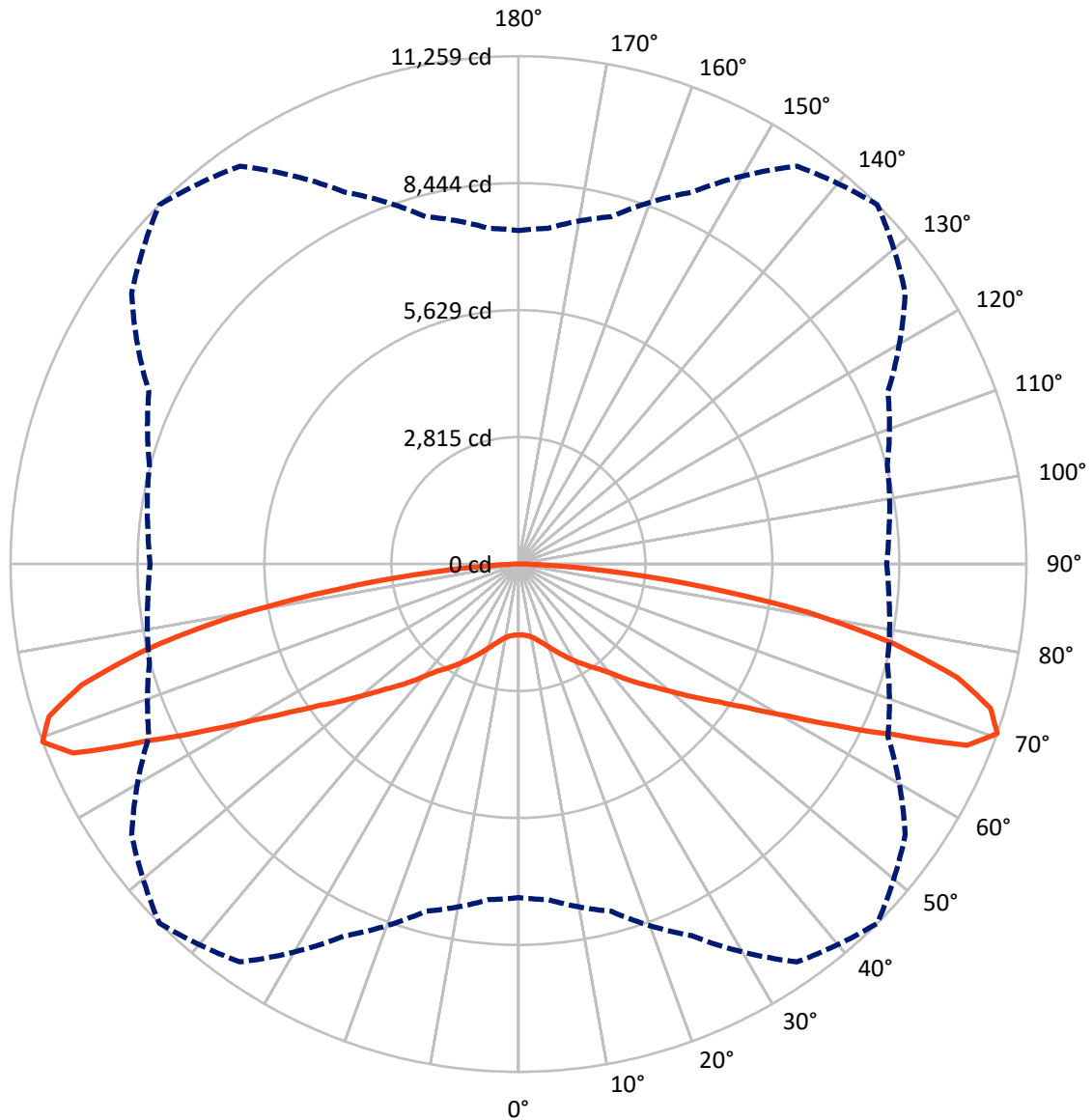
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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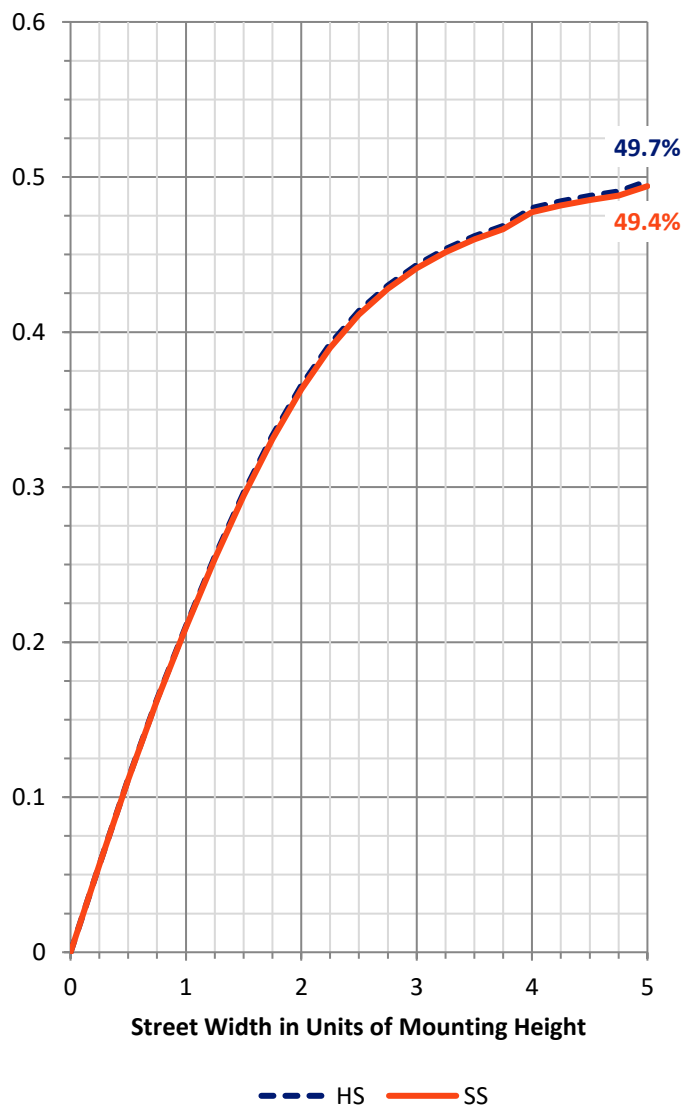
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14810.5	0.0	14810.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14810.5	0.0	14810.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29621.0	0.0	29621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	0.5
10°-20°	510.0	1.7
20°-30°	1019.9	3.4
30°-40°	1774.7	6.0
40°-50°	3087.5	10.4
50°-60°	5375.7	18.1
60°-70°	8706.4	29.4
70°-80°	7469.2	25.2
80°-90°	1523.5	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°	29621.0	100.0
0°-180°	29621.0	100.0

**Coefficient of Utilization**



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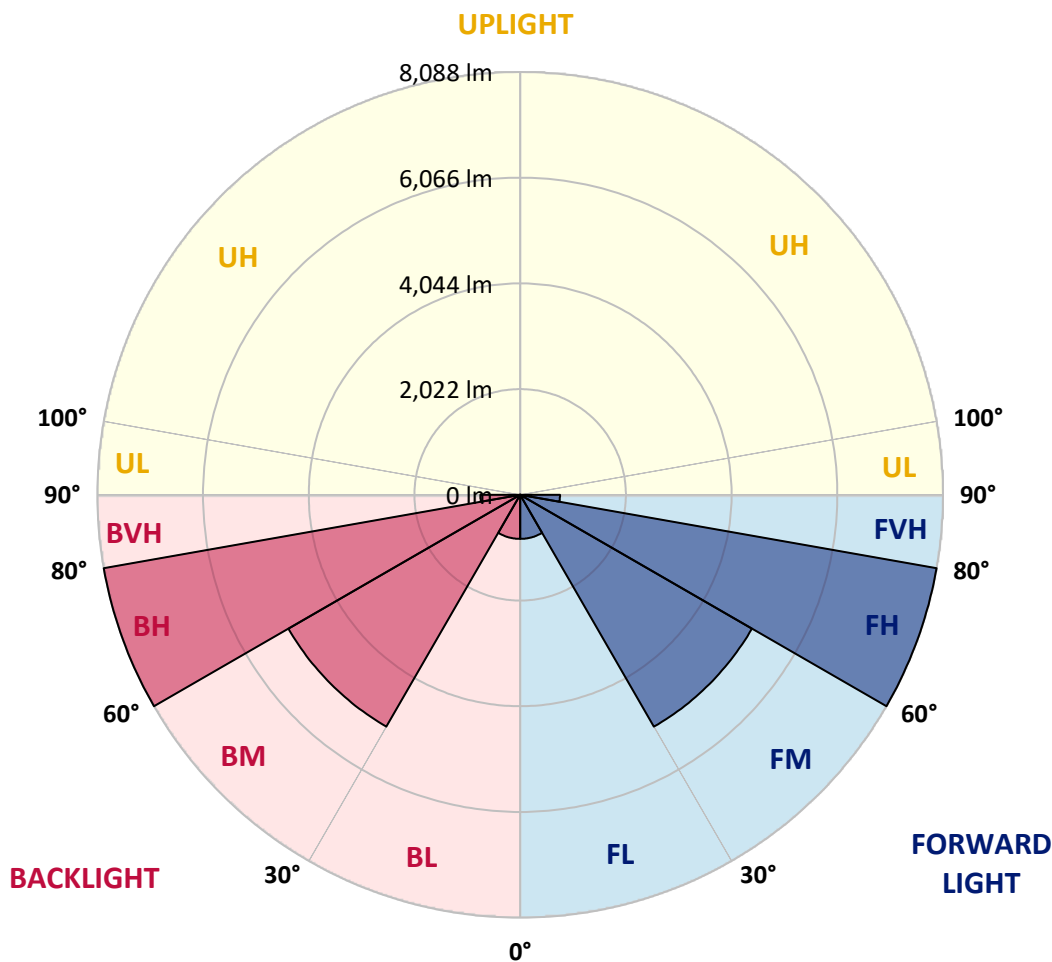
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.0	2.8			
FM (30°-60°)	5119.0	17.3			
FH (60°-80°)	8087.8	27.3			G4/12000
FVH (80°-90°)	761.8	2.6			G5
BL (0°-30°)	842.0	2.8	B2/1000		
BM (30°-60°)	5119.0	17.3	B4/8500		
BH (60°-80°)	8087.8	27.3	B5		G4/12000
BVH (80°-90°)	761.8	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°	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5	1575.5
2.5°	1570.3	1579.4	1578.1	1575.5	1571.6	1571.6	1574.2	1583.3	1584.6	1584.6	1584.6
5°	1588.5	1597.6	1596.3	1593.7	1589.8	1588.5	1591.1	1600.2	1601.5	1601.5	1602.8
7.5°	1609.3	1619.7	1619.7	1618.4	1609.3	1609.3	1611.9	1623.6	1623.6	1626.2	1628.8
10°	1644.4	1656.1	1660.0	1654.8	1649.6	1647.0	1649.6	1661.3	1660.0	1657.4	1658.7
12.5°	1692.5	1704.2	1713.3	1712.0	1706.8	1704.2	1706.8	1713.3	1705.5	1695.1	1695.1
15°	1752.3	1767.9	1778.3	1778.3	1784.8	1780.9	1777.0	1778.3	1766.6	1757.5	1757.5
17.5°	1829.0	1842.0	1851.1	1858.9	1869.3	1869.3	1860.2	1857.6	1842.0	1834.2	1835.5
20°	1922.6	1933.0	1946.0	1952.5	1973.3	1974.6	1959.0	1952.5	1936.9	1926.5	1929.1
22.5°	2024.0	2042.2	2047.4	2066.9	2091.5	2092.8	2072.1	2057.8	2042.2	2034.4	2035.7
25°	2146.1	2164.3	2160.4	2177.3	2215.0	2218.9	2195.5	2174.7	2161.7	2153.9	2156.5
27.5°	2280.0	2298.2	2296.9	2296.9	2341.1	2358.0	2325.5	2303.4	2306.0	2291.7	2296.9
30°	2423.0	2438.6	2447.7	2432.1	2475.0	2502.3	2450.3	2452.9	2451.6	2442.5	2441.2
32.5°	2590.7	2605.0	2603.7	2593.3	2606.3	2645.3	2603.7	2616.7	2620.6	2621.9	2632.3
35°	2781.8	2798.7	2780.5	2766.2	2767.5	2805.2	2774.0	2794.8	2815.6	2823.4	2823.4
37.5°	2985.9	2995.0	2975.5	2953.4	2948.2	2969.0	2963.8	2997.6	3032.7	3052.2	3062.6
40°	3249.8	3257.6	3219.9	3177.0	3169.2	3192.6	3199.1	3273.2	3326.5	3362.9	3369.4
42.5°	3616.3	3615.0	3561.7	3482.4	3444.8	3481.2	3527.9	3613.7	3703.4	3711.2	3738.5
45°	4088.2	4070.0	4001.1	3882.8	3787.9	3774.9	3830.8	3958.2	4058.3	4101.2	4118.1
47.5°	4626.4	4605.6	4480.8	4297.5	4135.0	4084.3	4131.1	4291.0	4440.5	4502.9	4536.7
50°	5226.9	5202.2	5076.1	4827.9	4557.5	4465.2	4493.8	4692.7	4866.9	4946.1	5005.9
52.5°	5873.0	5869.1	5707.9	5421.9	5060.5	4911.0	4901.9	5141.1	5375.1	5480.4	5512.9
55°	6565.8	6546.3	6402.0	6091.4	5672.8	5393.3	5394.6	5659.8	5945.8	6083.6	6099.2
57.5°	7245.7	7237.9	7078.0	6812.8	6385.1	6017.3	5980.9	6333.1	6621.7	6734.8	6740.0
60°	7887.8	7912.5	7829.3	7586.3	7241.8	6825.8	6772.5	7070.2	7315.9	7413.4	7448.5
62.5°	8602.8	8610.6	8600.2	8420.8	8158.2	7877.4	7746.1	7898.2	8141.3	8221.9	8205.0
65°	9113.6	9164.3	9282.6	9374.9	9319.0	9104.5	8931.7	8939.5	8987.6	8935.6	8931.7
67.5°	8462.4	8572.9	8975.9	9624.5	10388.9	10722.9	10021.0	9237.1	8946.0	8757.5	8756.2
70°	7393.9	7468.0	7971.0	9092.8	10767.1	11258.5	10466.8	9037.0	8466.3	8242.7	8163.4
72.5°	6290.2	6348.7	6902.5	8047.7	10166.6	10942.6	10182.2	8449.4	7698.0	7205.4	7214.5
75°	5238.6	5229.5	5648.1	6824.5	8999.3	10049.6	9428.2	7520.0	6450.1	6001.7	5951.0
77.5°	3631.9	3715.1	4190.9	5393.3	7296.4	8504.0	8413.0	6190.2	4943.5	4465.2	4496.4
80°	1903.1	1955.1	2519.2	3661.8	5338.7	6522.9	6403.3	4378.1	3193.9	2664.8	2564.7
82.5°	792.9	826.7	1151.7	1978.5	3262.8	4059.6	4005.0	2668.7	1780.9	1240.1	1237.5
85°	336.7	338.0	488.8	847.5	1647.0	1929.1	1548.2	1146.5	624.0	391.3	349.7
87.5°	143.0	148.2	198.9	388.7	521.3	421.2	248.3	153.4	102.7	62.4	48.1
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)