

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: P157630

Luminaire Tested: **VST-E11-LED-E-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157630  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E11-LED-E-U-5WQ  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (231) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34732.4 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 269.7  
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: 28.75 FT

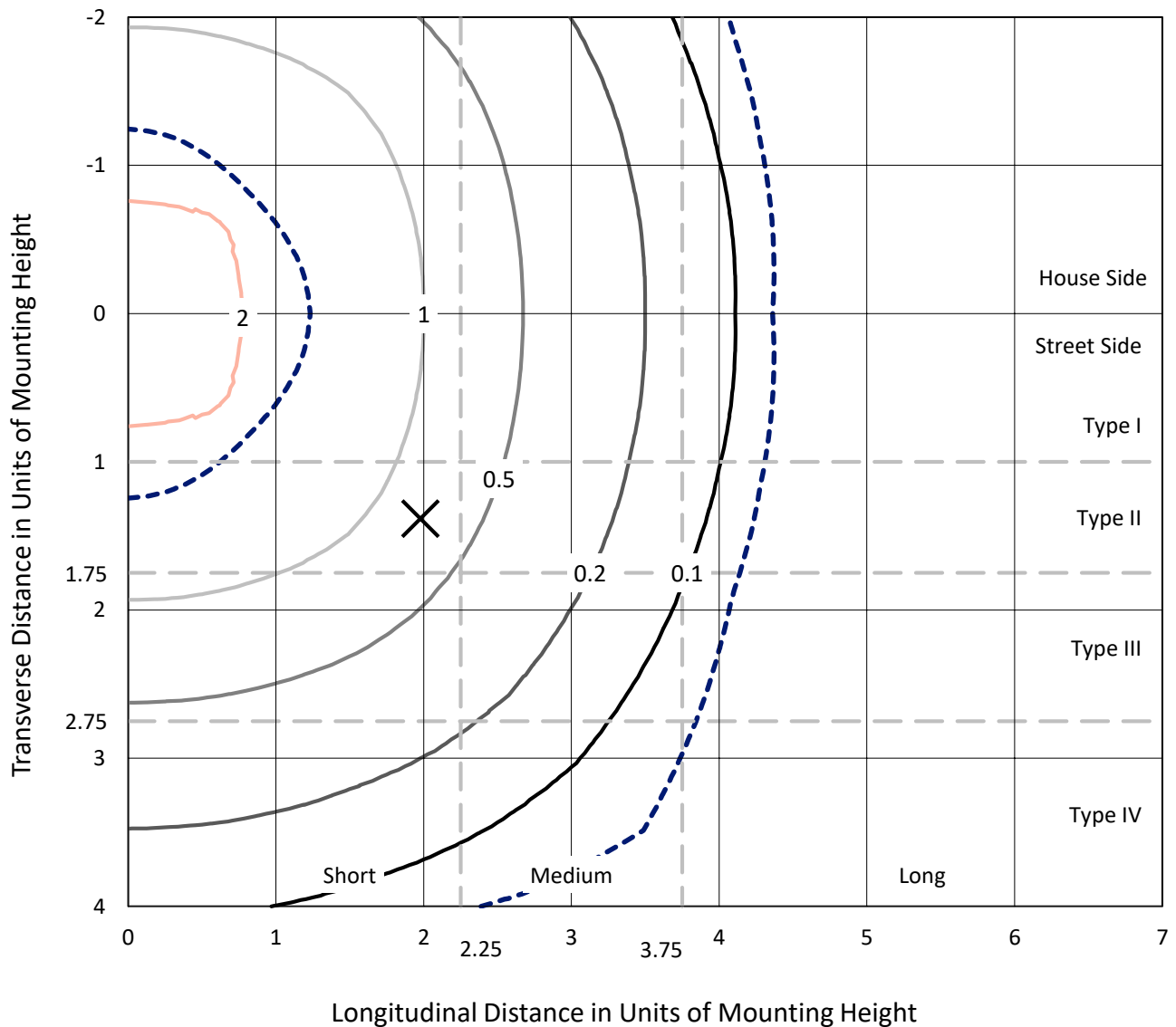


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

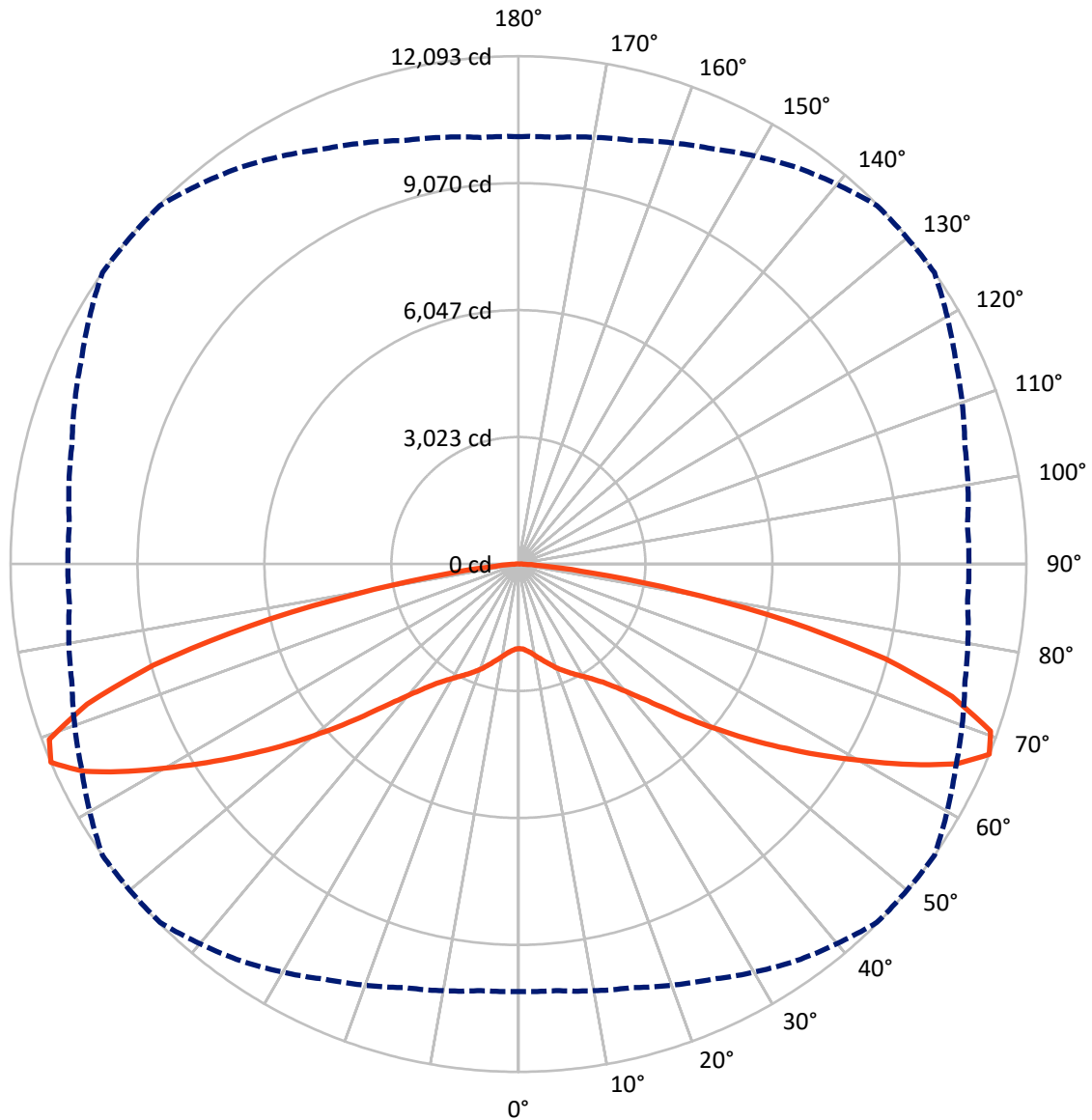


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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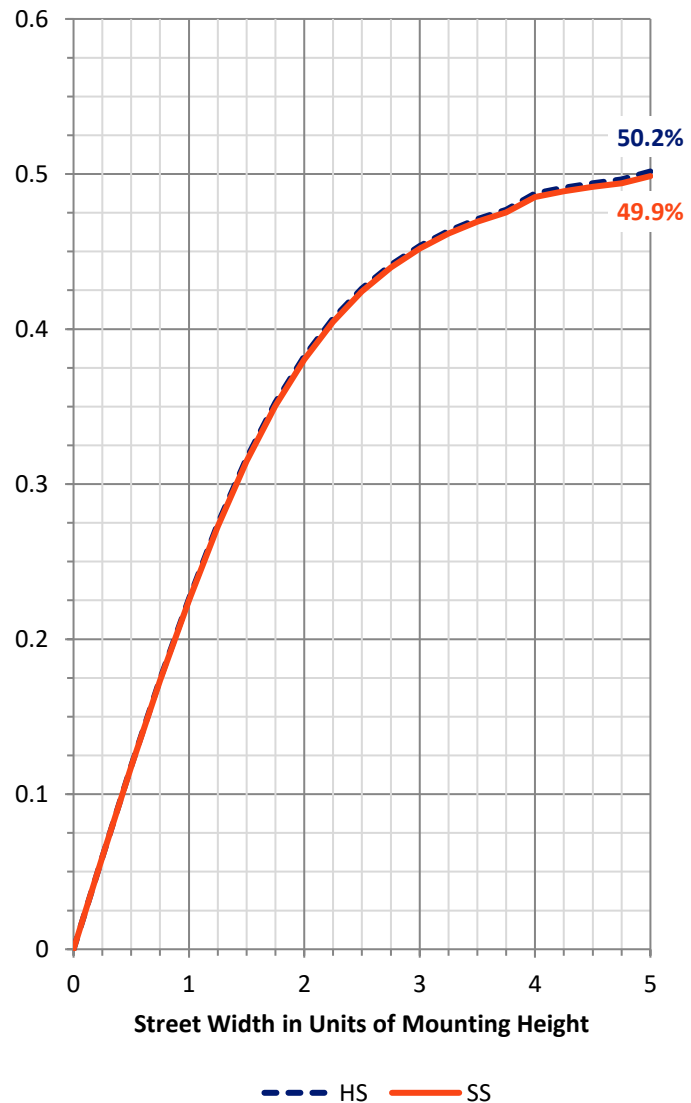
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17366.2	0.0	17366.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17366.2	0.0	17366.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34732.4	0.0	34732.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	0.6
10°-20°	691.1	2.0
20°-30°	1328.8	3.8
30°-40°	2176.8	6.3
40°-50°	3784.1	10.9
50°-60°	6754.4	19.4
60°-70°	10428.4	30.0
70°-80°	8441.8	24.3
80°-90°	924.7	2.7
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°	34732.4	100.0
0°-180°	34732.4	100.0



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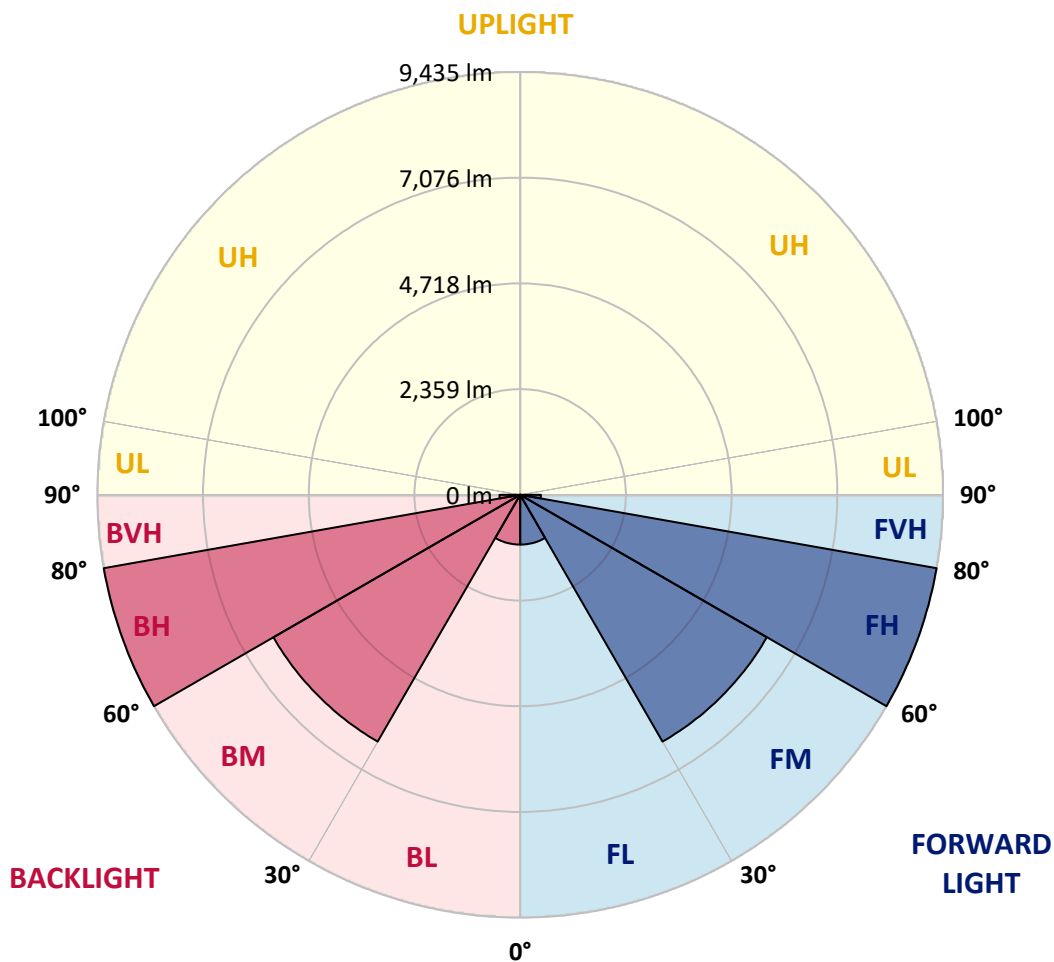
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1111.1	3.2			
FM	(30°-60°)	6357.7	18.3			
FH	(60°-80°)	9435.1	27.2			G4/12000
FVH	(80°-90°)	462.4	1.3			G3/500
BL	(0°-30°)	1111.1	3.2	B3/2500		
BM	(30°-60°)	6357.7	18.3	B4/8500		
BH	(60°-80°)	9435.1	27.2	B5		G4/12000
BVH	(80°-90°)	462.4	1.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2
2.5°	2028.4	2030.6	2028.4	2028.4	2026.2	2026.2	2026.2	2028.4	2028.4	2032.8	2030.6
5°	2070.2	2072.4	2068.0	2072.4	2072.4	2074.6	2074.6	2070.2	2072.4	2074.6	2068.0
7.5°	2129.6	2134.0	2131.8	2134.0	2136.2	2134.0	2134.0	2131.8	2136.2	2134.0	2129.6
10°	2206.6	2211.0	2208.8	2213.2	2215.4	2217.6	2217.6	2213.2	2211.0	2211.0	2208.8
12.5°	2299.0	2299.0	2299.0	2305.6	2310.0	2314.4	2312.2	2307.8	2301.2	2303.4	2294.6
15°	2400.2	2404.6	2404.6	2406.8	2417.8	2420.0	2417.8	2411.2	2409.0	2404.6	2400.2
17.5°	2512.4	2514.6	2516.8	2519.0	2532.2	2538.8	2530.0	2519.0	2519.0	2516.8	2516.8
20°	2629.0	2626.8	2631.2	2635.6	2644.4	2651.0	2648.8	2637.8	2629.0	2635.6	2633.4
22.5°	2736.8	2739.0	2741.2	2747.8	2763.2	2765.4	2758.8	2750.0	2739.0	2741.2	2741.2
25°	2838.0	2840.2	2844.6	2853.4	2871.0	2882.0	2873.2	2860.0	2844.6	2844.6	2846.8
27.5°	2941.4	2943.6	2945.8	2961.2	2983.2	2996.4	2989.8	2967.8	2950.2	2945.8	2939.2
30°	3055.8	3055.8	3060.2	3080.0	3108.6	3124.0	3115.2	3088.8	3062.4	3058.0	3058.0
32.5°	3201.0	3192.2	3198.8	3225.2	3256.0	3273.6	3267.0	3236.2	3203.2	3196.6	3196.6
35°	3374.8	3370.4	3374.8	3405.6	3443.0	3469.4	3454.0	3425.4	3390.2	3383.6	3379.2
37.5°	3581.6	3583.8	3597.0	3632.2	3682.8	3715.8	3700.4	3654.2	3612.4	3612.4	3612.4
40°	3843.4	3847.8	3874.2	3927.0	3999.6	4028.2	4010.6	3953.4	3905.0	3887.4	3891.8
42.5°	4199.8	4197.6	4239.4	4305.4	4391.2	4433.0	4404.4	4342.8	4272.4	4243.8	4246.0
45°	4620.0	4650.8	4694.8	4778.4	4886.2	4958.8	4908.2	4840.0	4734.4	4692.6	4690.4
47.5°	5128.2	5161.2	5216.2	5354.8	5484.6	5572.6	5533.0	5420.8	5269.0	5209.6	5187.6
50°	5706.8	5748.6	5819.0	5997.2	6182.0	6281.0	6210.6	6063.2	5900.4	5810.2	5788.2
52.5°	6358.0	6371.2	6476.8	6692.4	6921.2	7042.2	6963.0	6787.0	6578.0	6494.4	6432.8
55°	7079.6	7090.6	7211.6	7455.8	7715.4	7858.4	7757.2	7535.0	7341.4	7196.2	7209.4
57.5°	7748.4	7781.4	7959.6	8245.6	8551.4	8725.2	8615.2	8379.8	8177.4	8012.4	8032.2
60°	8463.4	8498.6	8685.6	9026.6	9440.2	9671.2	9528.2	9275.2	9066.2	8910.0	8890.2
62.5°	9222.4	9242.2	9446.8	9752.6	10280.6	10652.4	10516.0	10236.6	9992.4	9838.4	9823.0
65°	9924.2	9950.6	10124.4	10458.8	11002.2	11545.6	11468.6	11081.4	10751.4	10529.2	10498.4
67.5°	10179.4	10197.0	10441.2	10909.8	11534.6	12071.4	12093.4	11484.0	11004.4	10733.8	10727.2
70°	9880.2	9893.4	10205.8	10762.4	11558.8	12005.4	11926.2	11314.6	10725.0	10392.8	10359.8
72.5°	9209.2	9211.4	9497.4	9970.4	10769.0	11134.2	10797.6	10461.0	9851.6	9603.0	9537.0
75°	7988.2	7990.4	8188.4	8503.0	9072.8	9409.4	9026.6	8718.6	8360.0	8212.6	8135.6
77.5°	5493.4	5526.4	5731.0	6094.0	6718.8	7090.6	6589.0	6030.2	5812.4	5687.0	5612.2
80°	2644.4	2695.0	2930.4	3289.0	3942.4	4536.4	3918.2	3229.6	2805.0	2459.6	2521.2
82.5°	706.2	715.0	917.4	1317.8	1837.0	2156.0	1751.2	1225.4	772.2	519.2	475.2
85°	187.0	198.0	277.2	380.6	578.6	737.0	563.2	358.6	272.8	202.4	184.8
87.5°	50.6	59.4	96.8	116.6	145.2	116.6	145.2	125.4	121.0	63.8	46.2
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)