

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: P157640

Luminaire Tested: **VST-E12-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157640
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-E12-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (252) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37889.9 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 291.7
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

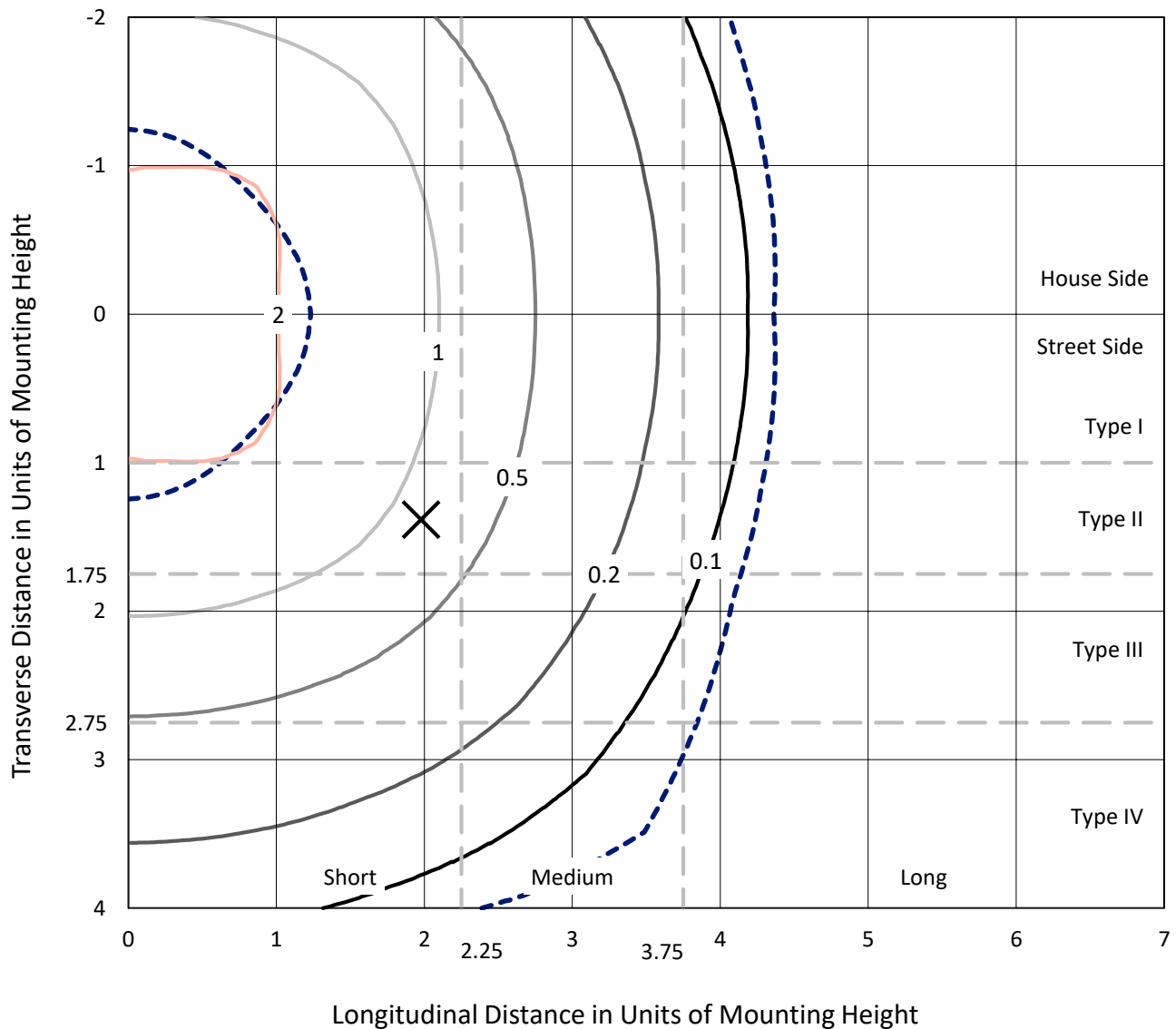


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

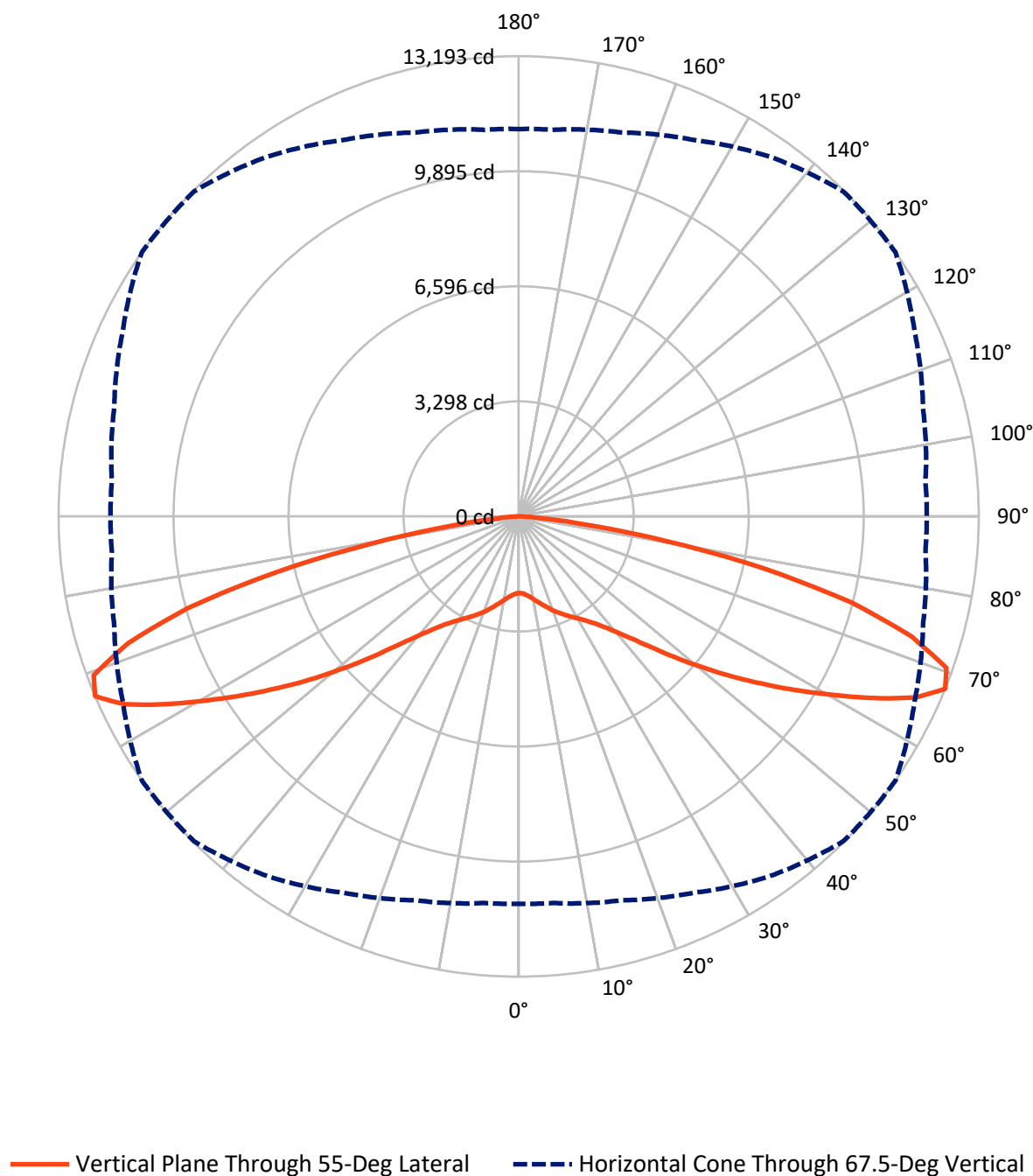


Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18945.0	0.0	18945.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18945.0	0.0	18945.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37889.9	0.0	37889.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	0.6
10°-20°	753.9	2.0
20°-30°	1449.6	3.8
30°-40°	2374.6	6.3
40°-50°	4128.2	10.9
50°-60°	7368.5	19.4
60°-70°	11376.5	30.0
70°-80°	9209.3	24.3
80°-90°	1008.8	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°	37889.9	100.0
0°-180°	37889.9	100.0

Coefficient of Utilization



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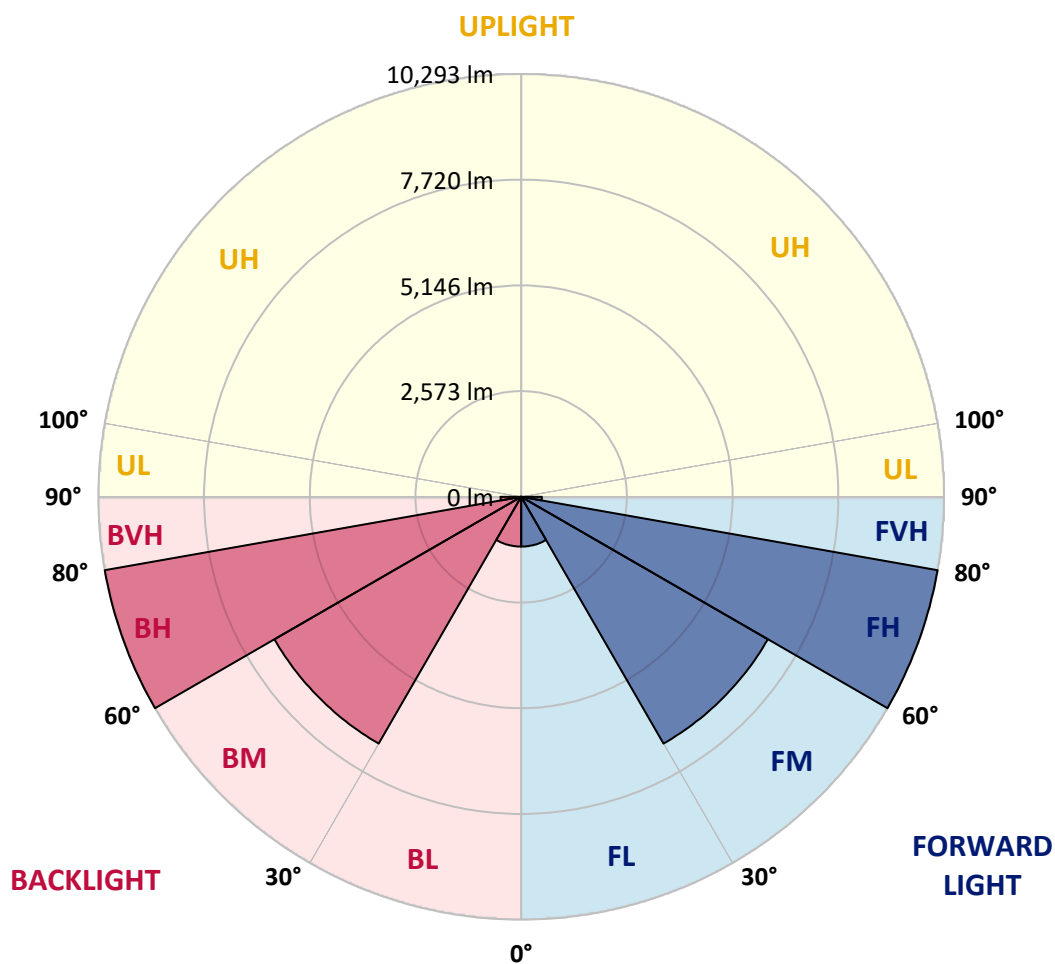
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.1	3.2			
FM	(30°-60°)	6935.6	18.3			
FH	(60°-80°)	10292.9	27.2			G4/12000
FVH	(80°-90°)	504.4	1.3			G4/750
BL	(0°-30°)	1212.1	3.2	B3/2500		
BM	(30°-60°)	6935.6	18.3	B4/8500		
BH	(60°-80°)	10292.9	27.2	B5		G4/12000
BVH	(80°-90°)	504.4	1.3			G4/750
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°	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4
2.5°	2212.8	2215.2	2212.8	2212.8	2210.4	2210.4	2210.4	2212.8	2212.8	2217.6	2215.2
5°	2258.4	2260.8	2256.0	2260.8	2260.8	2263.2	2260.8	2258.4	2260.8	2263.2	2256.0
7.5°	2323.2	2328.0	2325.6	2328.0	2330.4	2328.0	2328.0	2325.6	2330.4	2328.0	2323.2
10°	2407.2	2412.0	2409.6	2414.4	2416.8	2419.2	2419.2	2414.4	2412.0	2412.0	2409.6
12.5°	2508.0	2508.0	2508.0	2515.2	2520.0	2524.8	2522.4	2517.6	2510.4	2512.8	2503.2
15°	2618.4	2623.2	2623.2	2625.6	2637.6	2640.0	2637.6	2630.4	2628.0	2623.2	2618.4
17.5°	2740.8	2743.2	2745.6	2748.0	2762.4	2769.6	2760.0	2748.0	2748.0	2745.6	2745.6
20°	2868.0	2865.6	2870.4	2875.2	2884.8	2892.0	2889.6	2877.6	2868.0	2875.2	2872.8
22.5°	2985.6	2988.0	2990.4	2997.6	3014.4	3016.8	3009.6	3000.0	2988.0	2990.4	2990.4
25°	3096.0	3098.4	3103.2	3112.8	3132.0	3144.0	3134.4	3120.0	3103.2	3103.2	3105.6
27.5°	3208.8	3211.2	3213.6	3230.4	3254.4	3268.8	3261.6	3237.6	3218.4	3213.6	3206.4
30°	3333.6	3333.6	3338.4	3360.0	3391.2	3408.0	3398.4	3369.6	3340.8	3336.0	3336.0
32.5°	3492.0	3482.4	3489.6	3518.4	3552.0	3571.2	3564.0	3530.4	3494.4	3487.2	3487.2
35°	3681.6	3676.8	3681.6	3715.2	3756.0	3784.8	3768.0	3736.8	3698.4	3691.2	3686.4
37.5°	3907.2	3909.6	3924.0	3962.4	4017.6	4053.6	4036.8	3986.4	3940.8	3940.8	3940.8
40°	4192.8	4197.6	4226.4	4284.0	4363.2	4394.4	4375.2	4312.8	4260.0	4240.8	4245.6
42.5°	4581.6	4579.2	4624.8	4696.8	4790.4	4836.0	4804.8	4737.6	4660.8	4629.6	4632.0
45°	5040.0	5073.6	5121.6	5212.8	5330.4	5409.6	5354.4	5280.0	5164.8	5119.2	5116.8
47.5°	5594.4	5630.4	5690.4	5841.6	5983.2	6079.2	6036.0	5913.6	5748.0	5683.2	5659.2
50°	6225.6	6271.2	6348.0	6542.4	6744.0	6852.0	6775.2	6614.4	6436.8	6338.4	6314.4
52.5°	6936.0	6950.4	7065.6	7300.8	7550.4	7682.4	7596.0	7404.0	7176.0	7084.8	7017.6
55°	7723.2	7735.2	7867.2	8133.6	8416.8	8572.8	8462.4	8220.0	8008.8	7850.4	7864.8
57.5°	8452.8	8488.8	8683.2	8995.2	9328.8	9518.4	9398.4	9141.6	8920.8	8740.8	8762.4
60°	9232.8	9271.2	9475.2	9847.2	10298.4	10550.4	10394.4	10118.4	9890.4	9720.0	9698.4
62.5°	10060.8	10082.4	10305.6	10639.2	11215.2	11620.8	11472.0	11167.2	10900.8	10732.8	10716.0
65°	10826.4	10855.2	11044.8	11409.6	12002.4	12595.2	12511.2	12088.8	11728.8	11486.4	11452.8
67.5°	11104.8	11124.0	11390.4	11901.6	12583.2	13168.8	13192.8	12528.0	12004.8	11709.6	11702.4
70°	10778.4	10792.8	11133.6	11740.8	12609.6	13096.8	13010.4	12343.2	11700.0	11337.6	11301.6
72.5°	10046.4	10048.8	10360.8	10876.8	11748.0	12146.4	11779.2	11412.0	10747.2	10476.0	10404.0
75°	8714.4	8716.8	8932.8	9276.0	9897.6	10264.8	9847.2	9511.2	9120.0	8959.2	8875.2
77.5°	5992.8	6028.8	6252.0	6648.0	7329.6	7735.2	7188.0	6578.4	6340.8	6204.0	6122.4
80°	2884.8	2940.0	3196.8	3588.0	4300.8	4948.8	4274.4	3523.2	3060.0	2683.2	2750.4
82.5°	770.4	780.0	1000.8	1437.6	2004.0	2352.0	1910.4	1336.8	842.4	566.4	518.4
85°	204.0	216.0	302.4	415.2	631.2	804.0	614.4	391.2	297.6	220.8	201.6
87.5°	55.2	64.8	105.6	127.2	158.4	127.2	158.4	136.8	132.0	69.6	50.4
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)