

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: P157620

Luminaire Tested: **VST-E10-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157620
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-E10-LED-E-U-5WQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (210) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31574.9 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.7
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

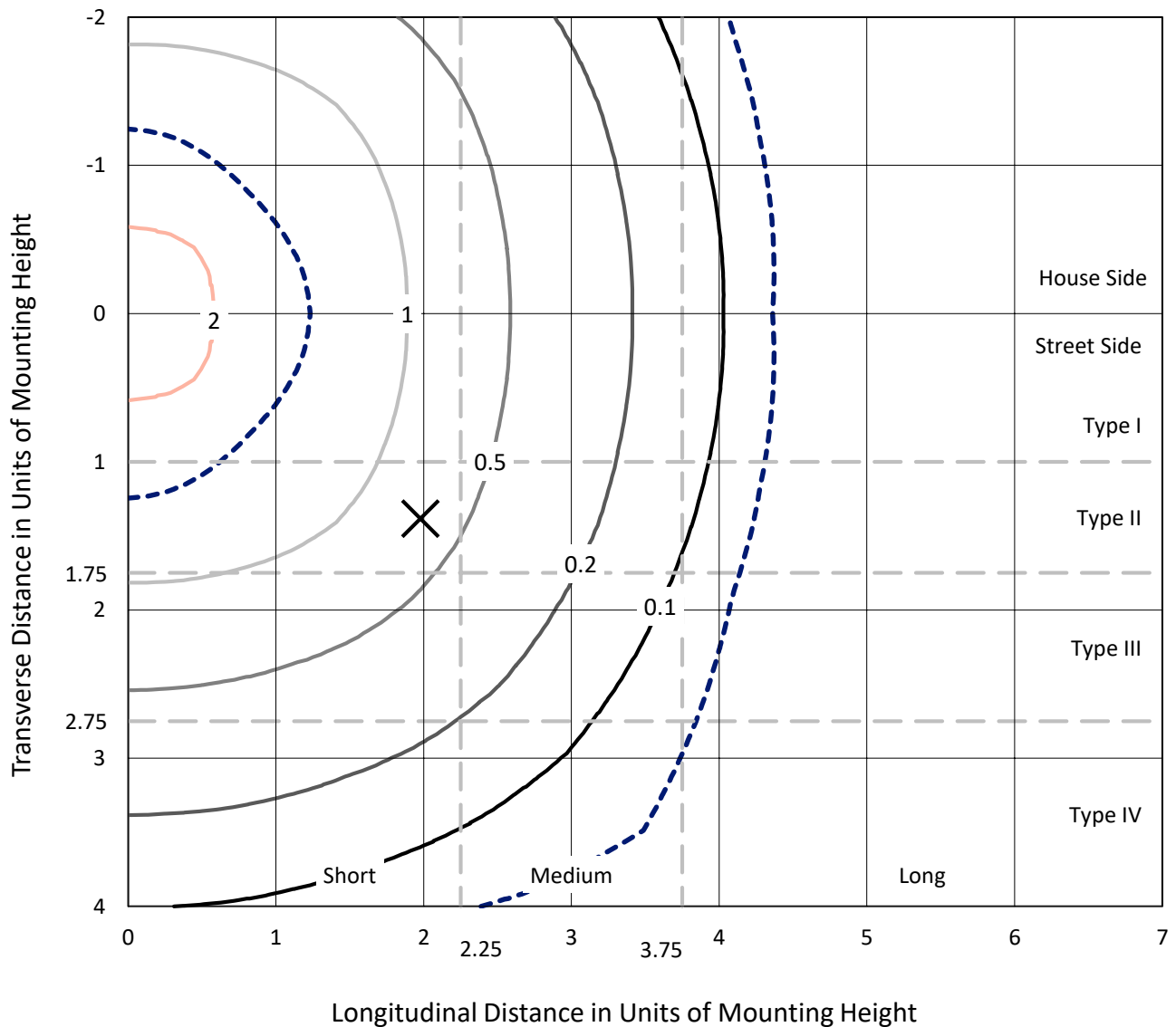


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

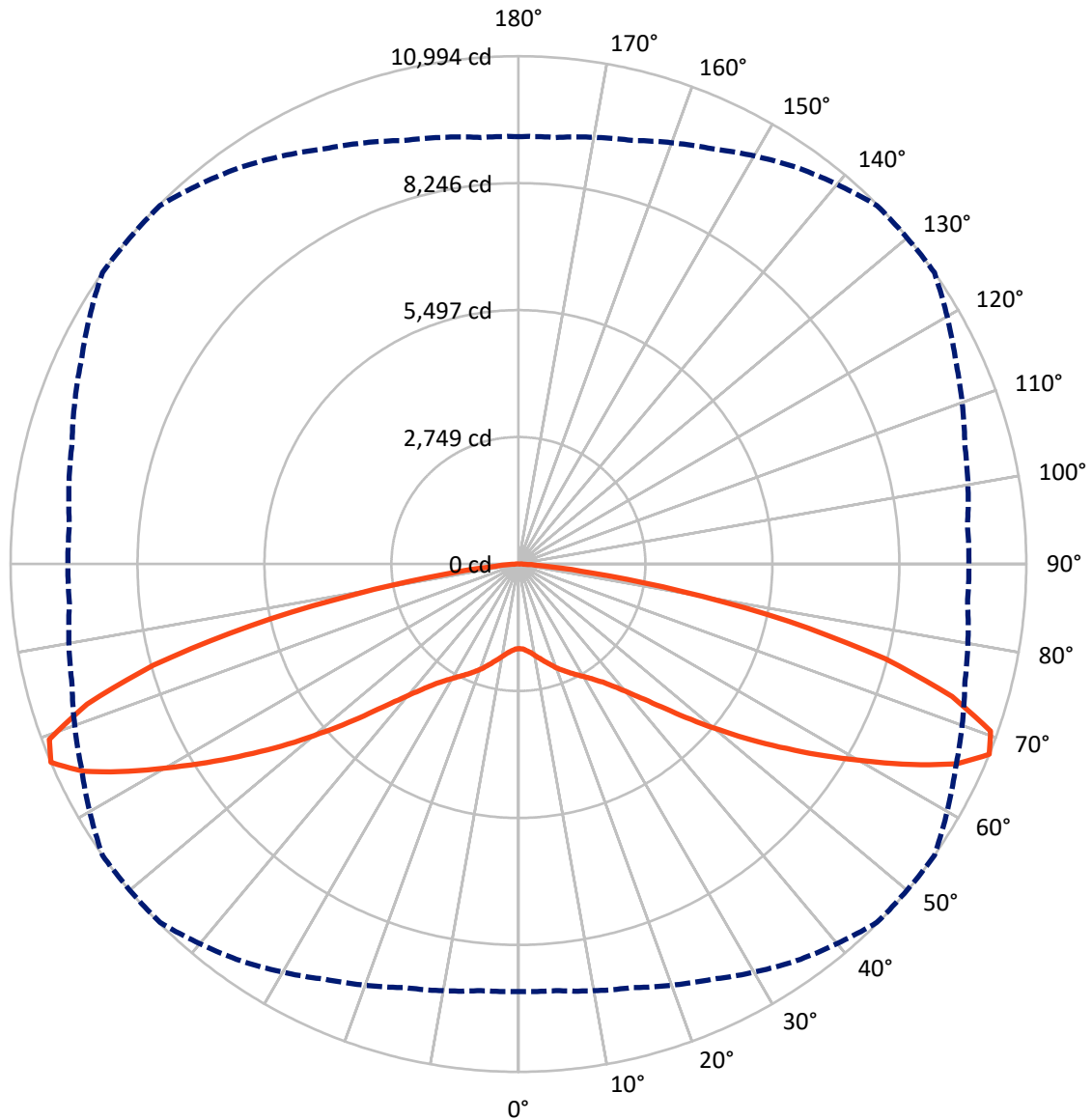


Based on 30 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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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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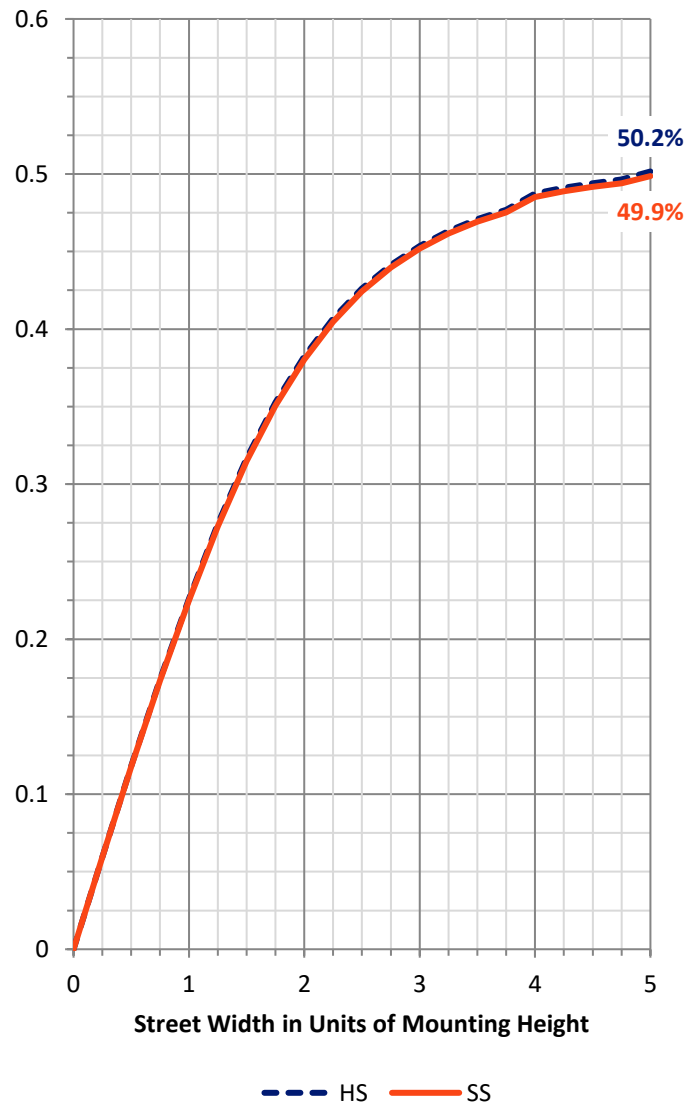
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15787.5	0.0	15787.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15787.5	0.0	15787.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31574.9	0.0	31574.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	0.6
10°-20°	628.2	2.0
20°-30°	1208.0	3.8
30°-40°	1978.9	6.3
40°-50°	3440.1	10.9
50°-60°	6140.4	19.4
60°-70°	9480.4	30.0
70°-80°	7674.4	24.3
80°-90°	840.7	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°	31574.9	100.0
0°-180°	31574.9	100.0



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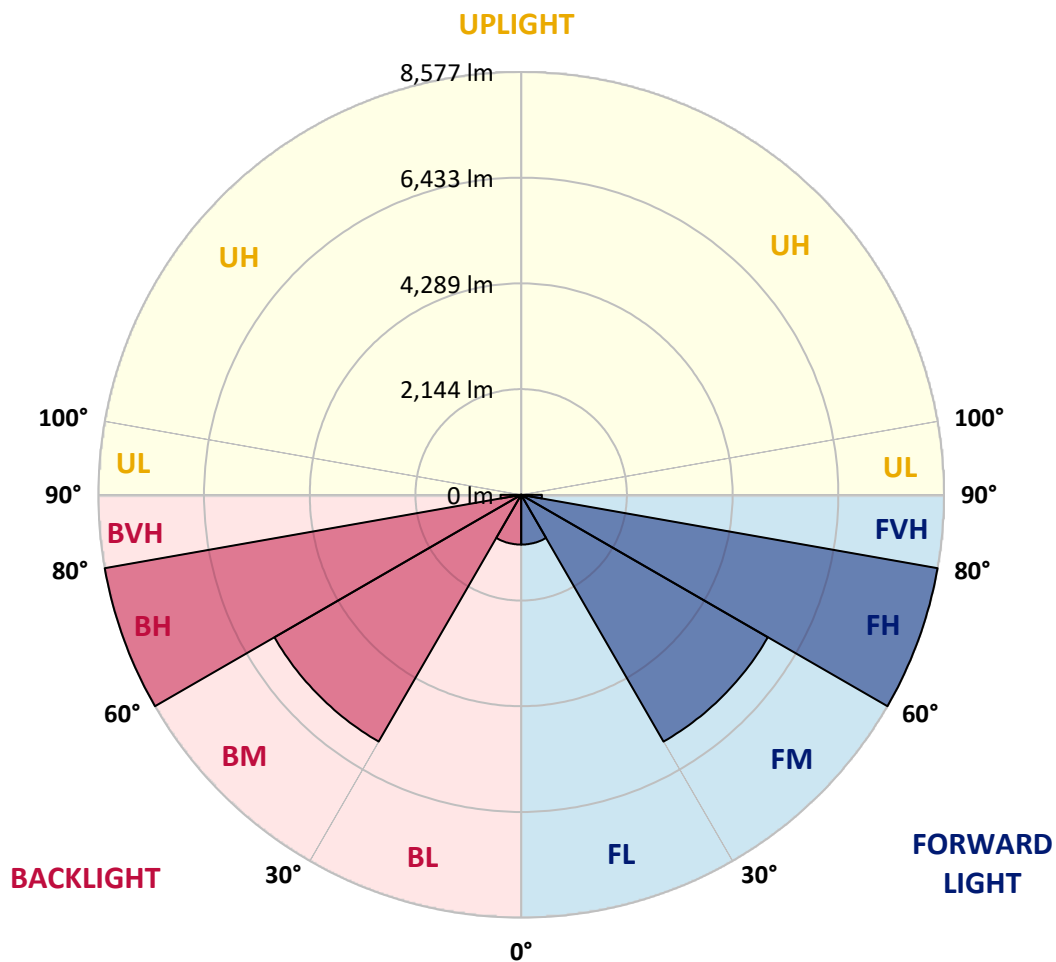
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.0	3.2			
FM	(30°-60°)	5779.7	18.3			
FH	(60°-80°)	8577.4	27.2			G4/12000
FVH	(80°-90°)	420.3	1.3			G3/500
BL	(0°-30°)	1010.0	3.2	B3/2500		
BM	(30°-60°)	5779.7	18.3	B4/8500		
BH	(60°-80°)	8577.4	27.2	B5		G4/12000
BVH	(80°-90°)	420.3	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°	1832	1832	1832	1832	1832	1832	1832	1832	1832	1832	1832
2.5°	1844	1846	1844	1844	1842	1842	1842	1844	1844	1848	1846
5°	1882	1884	1880	1884	1884	1886	1884	1882	1884	1886	1880
7.5°	1936	1940	1938	1940	1942	1940	1940	1938	1942	1940	1936
10°	2006	2010	2008	2012	2014	2016	2016	2012	2010	2010	2008
12.5°	2090	2090	2090	2096	2100	2104	2102	2098	2092	2094	2086
15°	2182	2186	2186	2188	2198	2200	2198	2192	2190	2186	2182
17.5°	2284	2286	2288	2290	2302	2308	2300	2290	2290	2288	2288
20°	2390	2388	2392	2396	2404	2410	2408	2398	2390	2396	2394
22.5°	2488	2490	2492	2498	2512	2514	2508	2500	2490	2492	2492
25°	2580	2582	2586	2594	2610	2620	2612	2600	2586	2586	2588
27.5°	2674	2676	2678	2692	2712	2724	2718	2698	2682	2678	2672
30°	2778	2778	2782	2800	2826	2840	2832	2808	2784	2780	2780
32.5°	2910	2902	2908	2932	2960	2976	2970	2942	2912	2906	2906
35°	3068	3064	3068	3096	3130	3154	3140	3114	3082	3076	3072
37.5°	3256	3258	3270	3302	3348	3378	3364	3322	3284	3284	3284
40°	3494	3498	3522	3570	3636	3662	3646	3594	3550	3534	3538
42.5°	3818	3816	3854	3914	3992	4030	4004	3948	3884	3858	3860
45°	4200	4228	4268	4344	4442	4508	4462	4400	4304	4266	4264
47.5°	4662	4692	4742	4868	4986	5066	5030	4928	4790	4736	4716
50°	5188	5226	5290	5452	5620	5710	5646	5512	5364	5282	5262
52.5°	5780	5792	5888	6084	6292	6402	6330	6170	5980	5904	5848
55°	6436	6446	6556	6778	7014	7144	7052	6850	6674	6542	6554
57.5°	7044	7074	7236	7496	7774	7932	7832	7618	7434	7284	7302
60°	7694	7726	7896	8206	8582	8792	8662	8432	8242	8100	8082
62.5°	8384	8402	8588	8866	9346	9684	9560	9306	9084	8944	8930
65°	9022	9046	9204	9508	10002	10496	10426	10074	9774	9572	9544
67.5°	9254	9270	9492	9918	10486	10974	10994	10440	10004	9758	9752
70°	8982	8994	9278	9784	10508	10914	10842	10286	9750	9448	9418
72.5°	8372	8374	8634	9064	9790	10122	9816	9510	8956	8730	8670
75°	7262	7264	7444	7730	8248	8554	8206	7926	7600	7466	7396
77.5°	4994	5024	5210	5540	6108	6446	5990	5482	5284	5170	5102
80°	2404	2450	2664	2990	3584	4124	3562	2936	2550	2236	2292
82.5°	642	650	834	1198	1670	1960	1592	1114	702	472	432
85°	170	180	252	346	526	670	512	326	248	184	168
87.5°	46	54	88	106	132	106	132	114	110	58	42
90°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)