

Scaled data based on original data using  
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires  
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 766320

Luminaire Tested: **OVZ25SXX7EG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 766320  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVZ25SXX7EG  
Description: 250W HPS TYPE II - 4 WAY GLASS  
Light Source: 250W HPS CL ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 27500 (1 lamp)  
Luminaire Lumens: 20898.1 lumens  
Efficiency: 76.0%  
Efficacy: 69.7 lumens/watt  
Luminous Opening: (L: 0 ' x W: 0.5 ' x H: 0.54 '  
IES Classification: Type IV - Short - Cutoff  
BUG Rating: B4 - U3 - G4

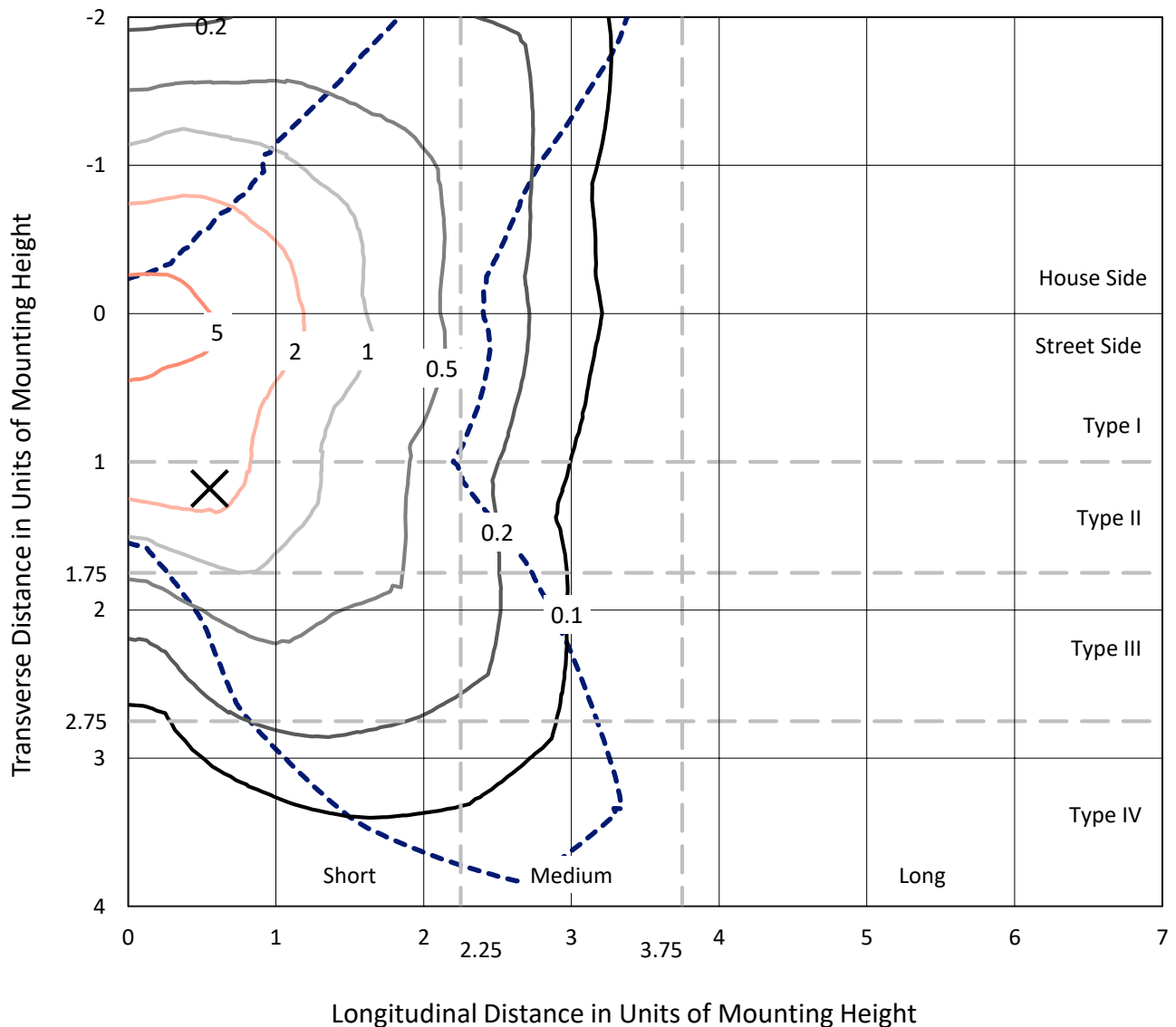
Input Watts (W): 300  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

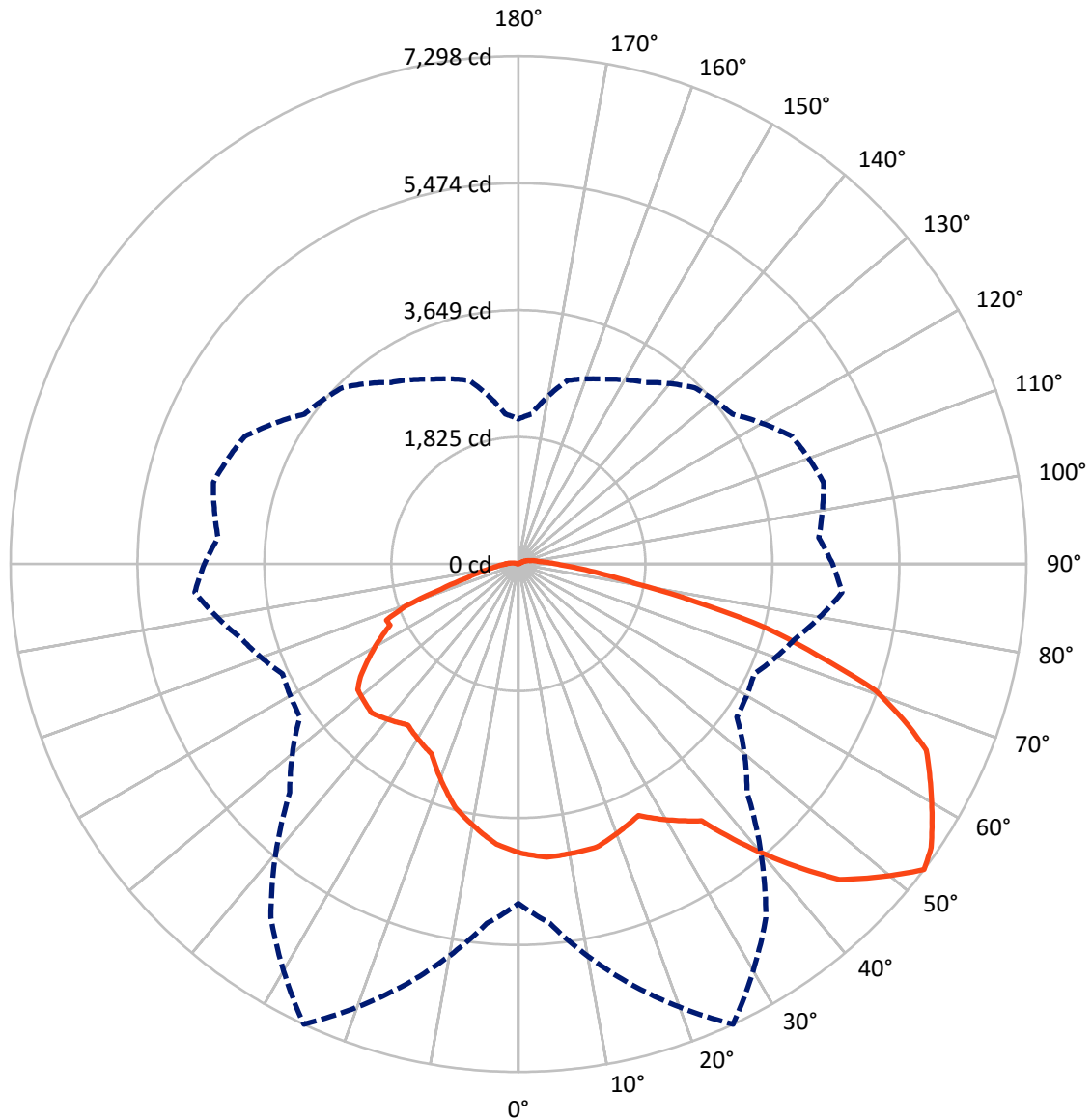
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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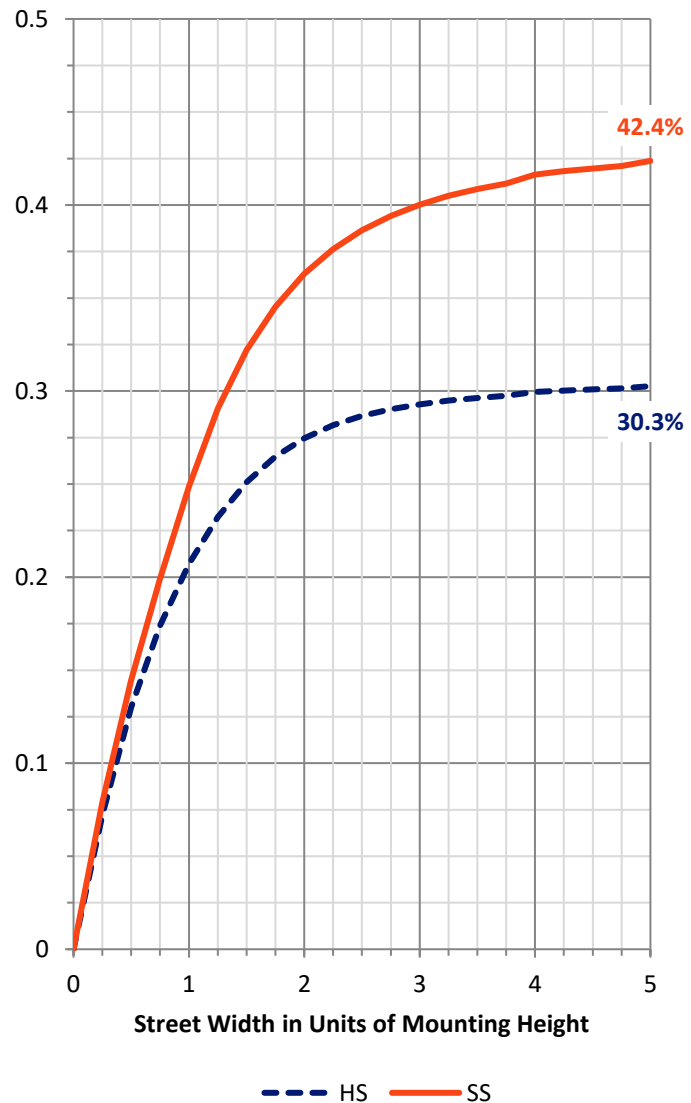
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8454.0	216.7	8670.7
	% Lamp	30.7	0.8	31.5
<b>Street Side</b>	Lumens	11861.8	365.6	12227.4
	% Lamp	43.1	1.3	44.5
<b>Total</b>	Lumens	20315.8	582.3	20898.1
	% Lamp	73.9	2.1	76.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	396.4	1.9	1.4
10°-20°	1162.8	5.6	4.2
20°-30°	1877.7	9.0	6.8
30°-40°	2621.0	12.5	9.5
40°-50°	3348.1	16.0	12.2
50°-60°	3769.4	18.0	13.7
60°-70°	3793.4	18.2	13.8
70°-80°	2488.3	11.9	9.0
80°-90°	812.2	3.9	3.0
90°-100°	325.8	1.6	1.2
100°-110°	177.1	0.8	0.6
110°-120°	77.3	0.4	0.3
120°-130°	17.7	0.1	0.1
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	20315.8	97.2	73.9
0°-180°	20898.1	100.0	76.0

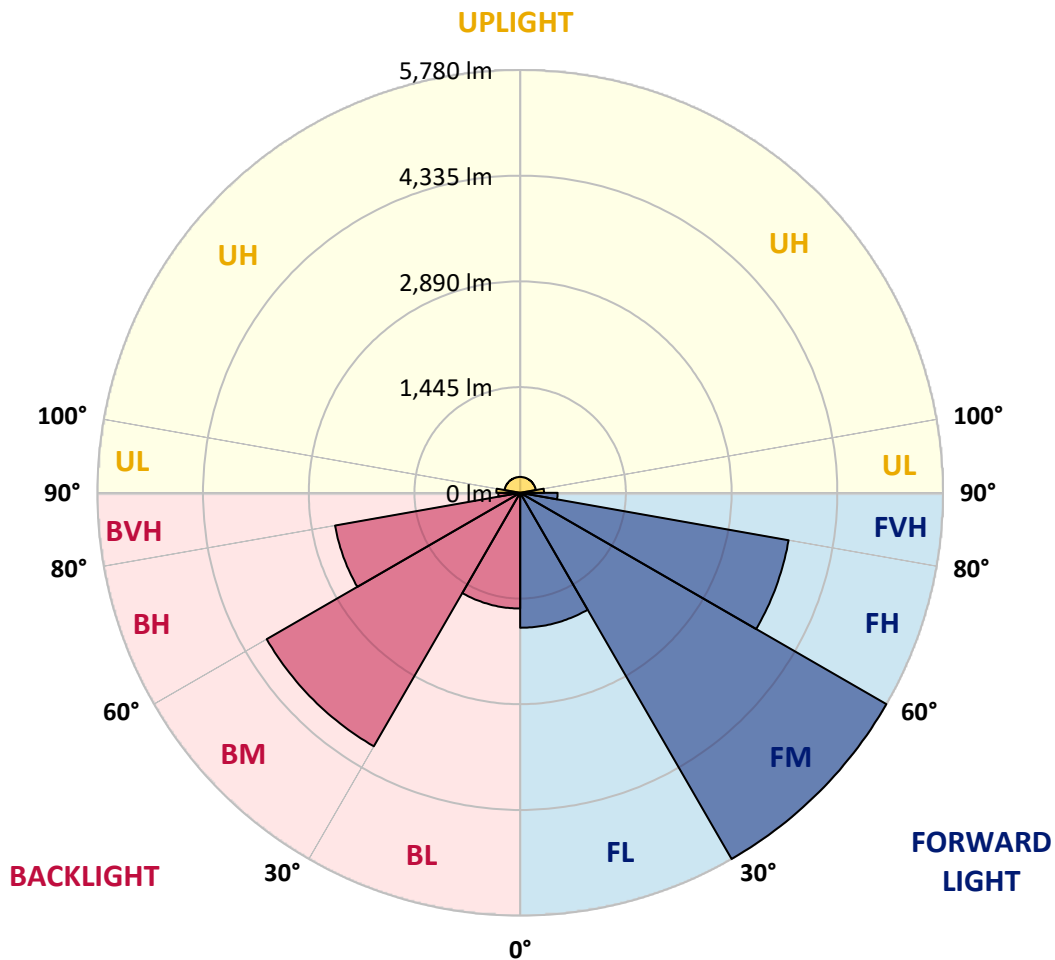


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1844.7	6.7			
FM	(30°-60°)	5779.9	21.0			
FH	(60°-80°)	3726.3	13.6			G2/5000
FVH	(80°-90°)	511.9	1.9			G4/750
BL	(0°-30°)	1581.6	5.8	B3/2500		
BM	(30°-60°)	4000.6	14.5	B3/5000		
BH	(60°-80°)	2569.9	9.3	B4/5000		G4/5000
BVH	(80°-90°)	300.3	1.1			G3/500
UL	(90°-100°)	325.8	1.2		U3/500	
UH	(100°-180°)	216.7	0.8		U3/500	
Trapped Light		6601.9	24.0			

**BUG Rating: B4-U3-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4155	4155	4155	4155	4155	4155	4155	4155	4155	4155	4155
5°	4288	4246	4254	4232	4257	4240	4252	4215	4206	4202	4199
15°	4161	4149	4197	4221	4320	4394	4501	4557	4536	4469	4422
25°	4024	4024	4003	4005	4069	4191	4457	4828	5014	4796	4646
35°	4994	4943	4830	4532	4497	4518	4674	5016	5215	4973	4746
45°	6608	6711	6923	6469	5781	4708	4160	4183	4654	4983	4911
52.5°	4880	5183	6253	7298	6200	4647	3833	3738	4125	4668	4513
55°	4011	4188	5728	7197	6230	4751	3857	3743	4233	4751	4405
65°	1735	1852	3755	6441	5841	6049	4815	3967	4204	4257	3971
67.5°	1689	1596	3619	5967	5811	6664	4901	3540	3626	3644	3521
70°	1275	1416	3406	5439	5757	6908	4577	2920	2842	2943	2973
72.5°	1164	1256	2766	4505	5470	6388	4077	2317	2199	2254	2386
75°	1071	1111	2156	3696	5049	5130	3134	1769	1954	1958	2004
77.5°	915	967	1531	2582	3772	3864	1993	1492	1890	1587	1578
80°	797	775	1168	1711	2465	2342	1504	1376	1859	1222	1275
82.5°	678	645	793	1234	1615	1408	1099	1204	1567	877	1012
85°	574	569	590	904	1137	989	855	959	1152	690	790
87.5°	380	459	504	658	764	763	737	776	736	565	650
90°	253	367	406	517	586	591	594	570	548	389	537
95°	160	252	279	326	380	418	427	397	366	238	379
105°	103	162	162	178	212	233	233	230	225	147	234
115°	0	100	87	97	116	119	129	136	141	0	144
125°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4155	4155	4155	4155	4155	4155	4155	4155	4155	4155
5°	4187	4165	4138	4094	4065	4042	4038	4020	3998	4008
15°	4373	4249	4111	4014	3906	3777	3614	3490	3452	3432
25°	4504	4267	4122	3930	3699	3365	3004	2807	2741	2754
35°	4460	3974	3875	3871	3676	3237	2806	2545	2434	2428
45°	4618	4385	4177	3790	3569	3278	3005	2652	2309	2263
52.5°	4333	4539	4338	3754	3582	3185	2931	2731	2163	2084
55°	4140	4416	4329	3839	3730	3284	2787	2529	2034	1996
65°	3994	4607	4954	4376	3679	3103	2043	1245	1024	983
67.5°	3544	4175	5027	4921	3807	2812	2061	1109	768	763
70°	2831	3495	4398	5295	3953	2214	1725	937	618	566
72.5°	2295	2540	3864	5078	3478	1685	1170	758	507	481
75°	1737	1715	3087	4457	2706	1257	797	622	414	383
77.5°	1353	1404	2132	3130	2131	972	635	491	35	316
80°	1094	949	1475	1903	1399	738	471	358	292	279
82.5°	873	731	926	1118	886	533	358	278	233	230
85°	728	606	688	764	657	387	303	226	180	181
87.5°	609	512	535	550	444	319	243	185	153	142
90°	494	427	416	400	326	247	197	159	127	127
95°	369	327	288	269	224	172	138	111	94	91
105°	226	194	168	141	109	74	44	25	0	0
115°	137	118	96	72	40	16	1	0	0	0
125°	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)