

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: 766645

Luminaire Tested: **OVF15SXX1D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766645
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF15SXX1D
Description: 150 WATT HPS TYPE I ROADWAY
Light Source: 150W HPS CL ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 11849.6 lumens
Efficiency: 74.1%
Efficacy: 79.0 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

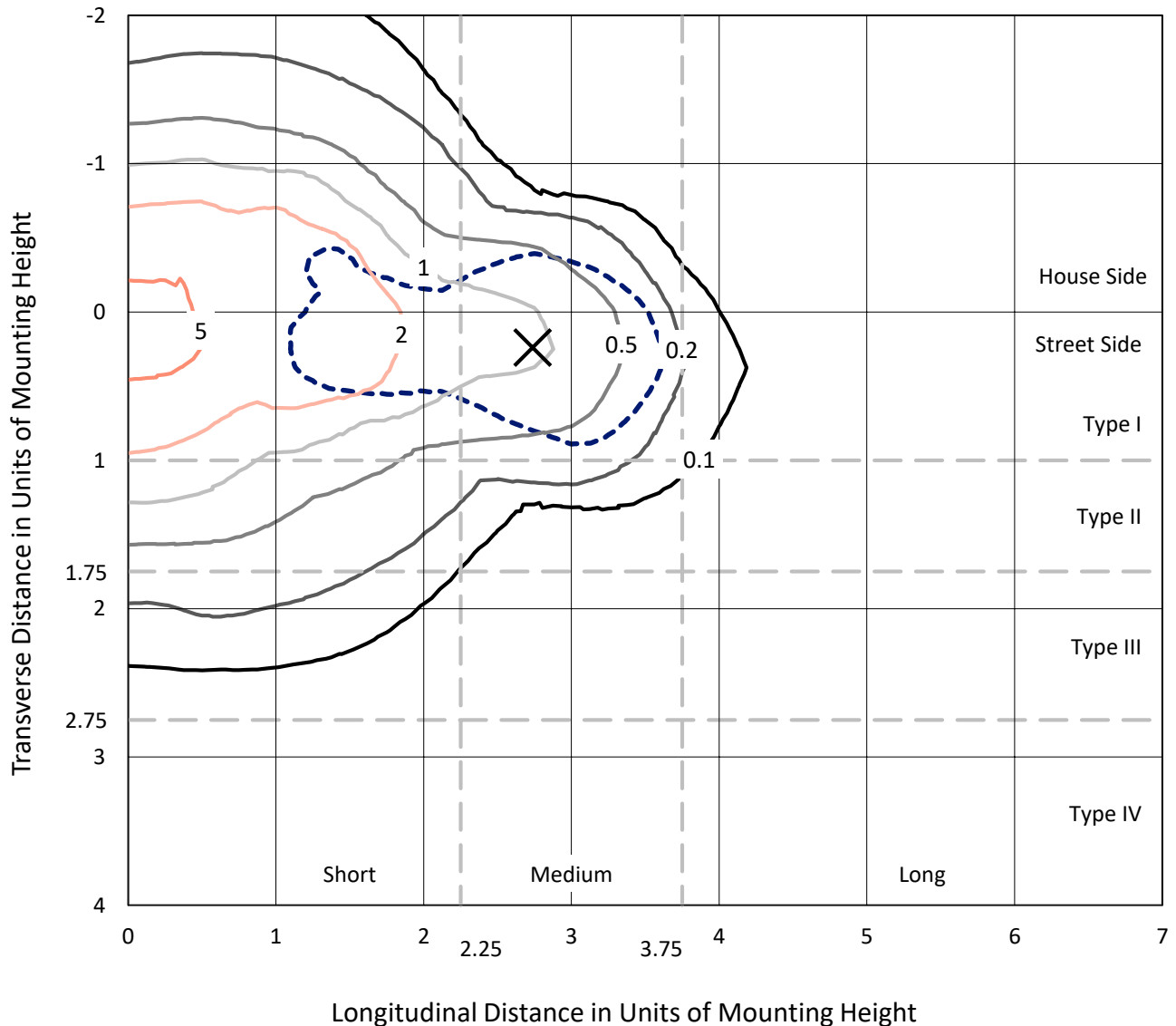
Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

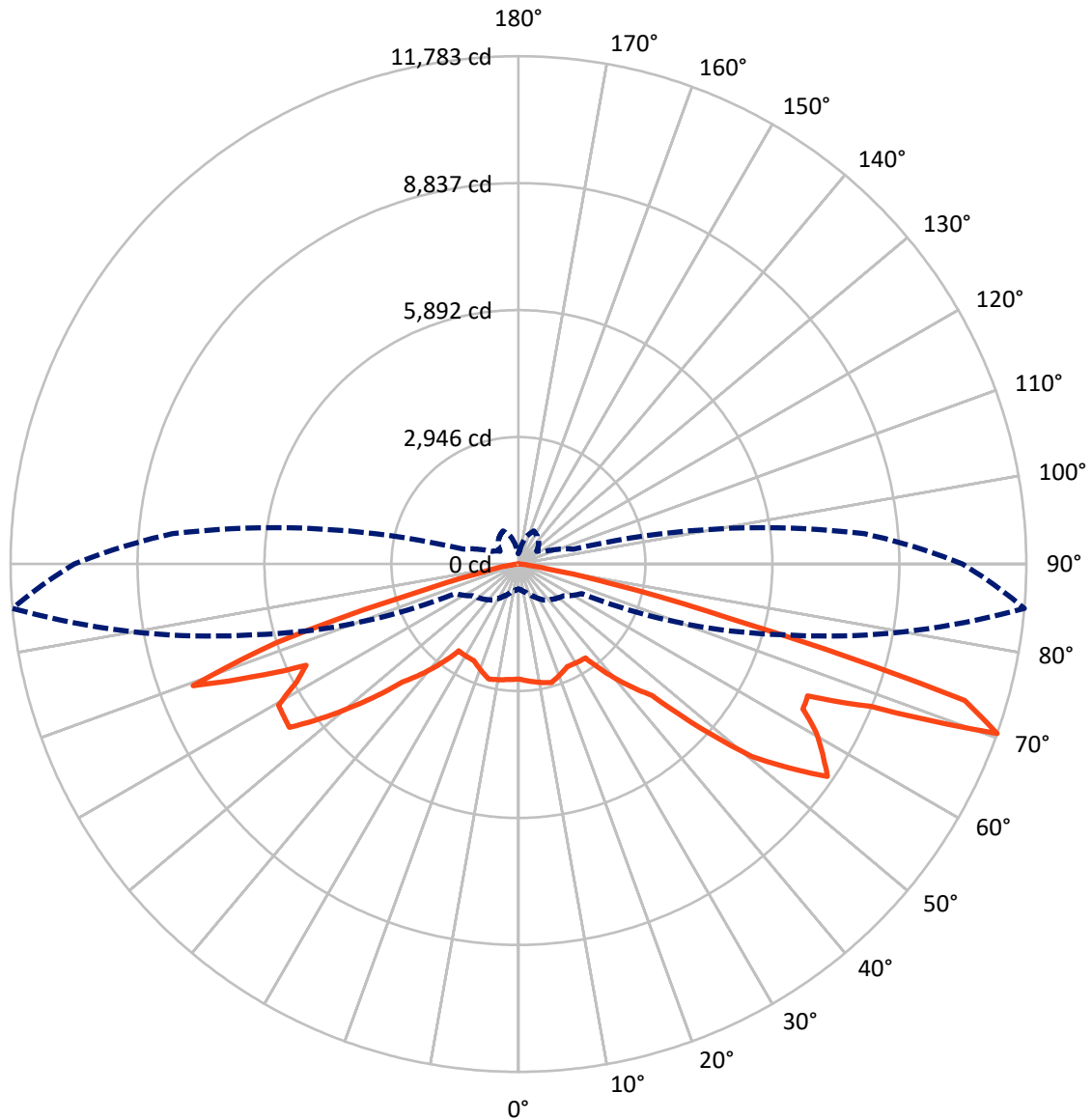
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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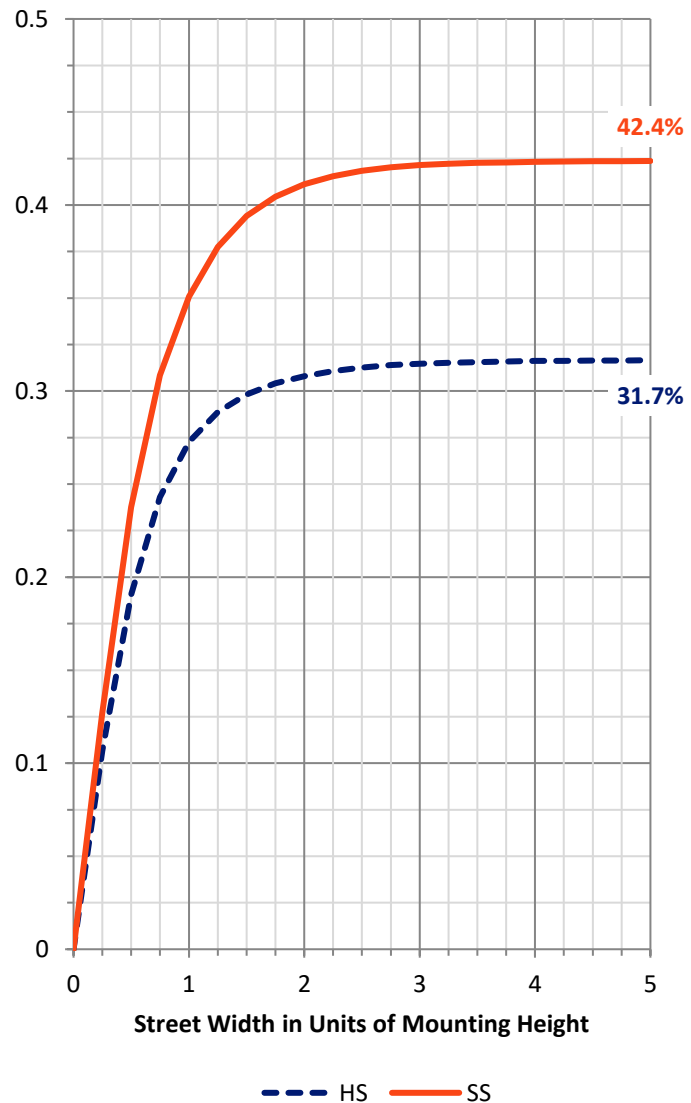
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5093.8	0.0	5093.8
	% Lamp	31.8	0.0	31.8
Street Side	Lumens	6755.8	0.0	6755.8
	% Lamp	42.2	0.0	42.2
Total	Lumens	11849.6	0.0	11849.6
	% Lamp	74.1	0.0	74.1

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	259.2	2.2	1.6
10°-20°	760.8	6.4	4.8
20°-30°	1175.0	9.9	7.3
30°-40°	1536.3	13.0	9.6
40°-50°	2140.3	18.1	13.4
50°-60°	2724.0	23.0	17.0
60°-70°	2253.6	19.0	14.1
70°-80°	1060.5	8.9	6.6
80°-90°	44.0	0.4	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
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°	11849.6	100.0	74.1
0°-180°	11849.6	100.0	74.1

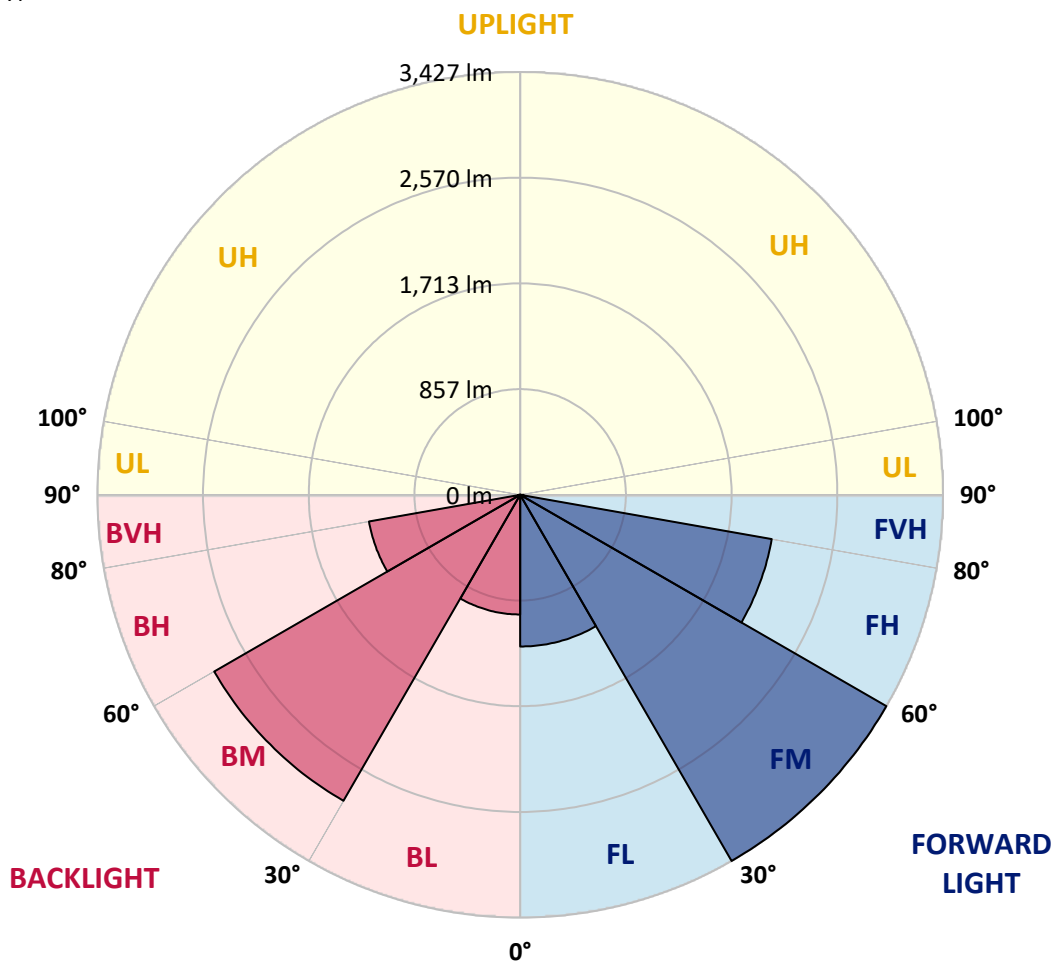


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.5	7.7			
FM (30°-60°)	3426.8	21.4			
FH (60°-80°)	2070.1	12.9			G2/5000
FVH (80°-90°)	28.2	0.2			G1/100
BL (0°-30°)	969.9	6.1	B2/1000		
BM (30°-60°)	2863.6	17.9	B3/5000		
BH (60°-80°)	1244.0	7.8	B3/2500		G3/2500
BVH (80°-90°)	15.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	4150.4	25.9			

BUG Rating: B3-U0-G3
 Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
5°	2985	3002	3002	2999	2995	2919	2916	2844	2792	2732	2720
15°	3324	3276	3322	3333	3314	3260	3185	3113	2980	2855	2822
25°	2566	2552	2603	2745	2847	2926	3047	3015	2819	2635	2542
35°	2250	2223	2176	2259	2569	2662	2732	2903	2899	2675	2545
45°	2065	2042	2055	2034	1983	2090	2394	3193	4167	4350	4094
50°	1854	1895	1932	1943	1857	1938	2545	4541	6491	7016	5746
55°	1502	1516	1601	1711	1694	1818	2670	4214	8204	8701	7625
60°	1048	1016	1226	1478	1600	1692	2183	3228	7251	7942	7710
62.5°	876	869	1045	1325	1492	1608	2136	3050	6326	7410	7132
65°	748	757	1064	1168	1355	1504	1967	2656	5719	7376	7039
67.5°	687	703	805	992	1203	1405	1731	2261	5741	8821	8145
70°	578	601	684	828	1018	1149	1285	1623	6342	11783	10303
72.5°	406	470	507	538	588	505	543	960	6730	10829	9498
75°	112	189	181	142	157	195	281	743	3586	5099	3883
77.5°	51	45	50	58	85	109	158	423	1210	2202	1147
80°	29	27	30	34	48	62	86	192	709	708	399
82.5°	16	16	16	19	24	30	40	81	201	256	160
85°	3	5	5	5	6	6	10	29	88	97	81
87.5°	3	2	2	0	0	0	0	6	26	19	19
90°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
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
175°	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°	2670	2670	2670	2670	2670	2670	2670	2670	2670	2670
5°	2686	2625	2577	2672	2466	2443	2426	2384	2384	2371
15°	2756	2689	2502	2299	2200	2140	2109	2084	2061	2045
25°	2469	2506	2597	2587	2386	2090	1925	1849	1801	1786
35°	2446	2319	2379	2506	2472	2319	1831	1608	1539	1476
45°	3832	3870	3186	2739	2015	1820	1520	1256	1136	1106
50°	5121	6072	4167	3252	2060	1464	1341	1032	909	898
55°	6524	6587	3661	2918	1726	1285	1048	876	743	738
60°	6456	4540	2779	2132	1419	1048	842	740	601	562
62.5°	5820	3124	2087	1547	1157	954	801	649	526	486
65°	5455	2446	1735	1309	1077	908	789	610	447	393
67.5°	6698	2009	1483	1234	1043	876	821	639	355	294
70°	8058	1326	692	518	668	770	848	642	307	249
72.5°	5885	1016	377	214	185	225	511	366	203	173
75°	2309	575	270	136	110	110	192	144	149	121
77.5°	825	289	173	89	80	67	89	74	81	70
80°	478	142	88	58	46	37	45	38	42	35
82.5°	169	66	38	26	22	21	21	18	21	16
85°	78	21	6	8	5	8	5	5	8	10
87.5°	13	0	0	0	2	2	0	2	5	6
90°	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	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
175°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)