

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: 766646

Luminaire Tested: **OVF15SXX2D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 766646  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVF15SXX2D  
Description: 150 WATT HPS TYPE II ROADWAY  
Light Source: 150W HPS CL ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 11686.5 lumens  
Efficiency: 73.0%  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G2

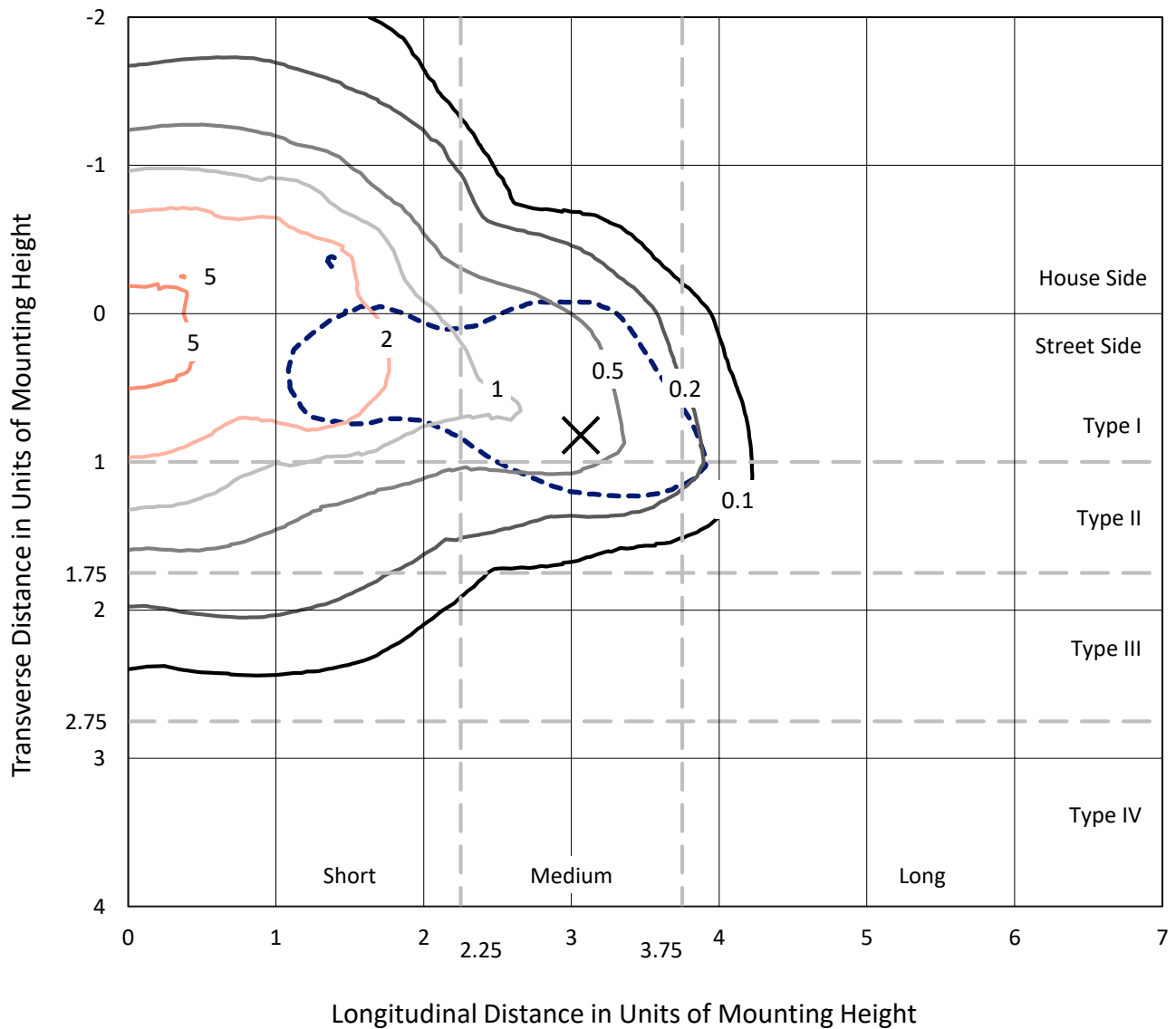
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: 766646  
 CATALOG NUMBER: OVF15SXX2D

### Iso-Footcandle Lines of Horizontal Illumination

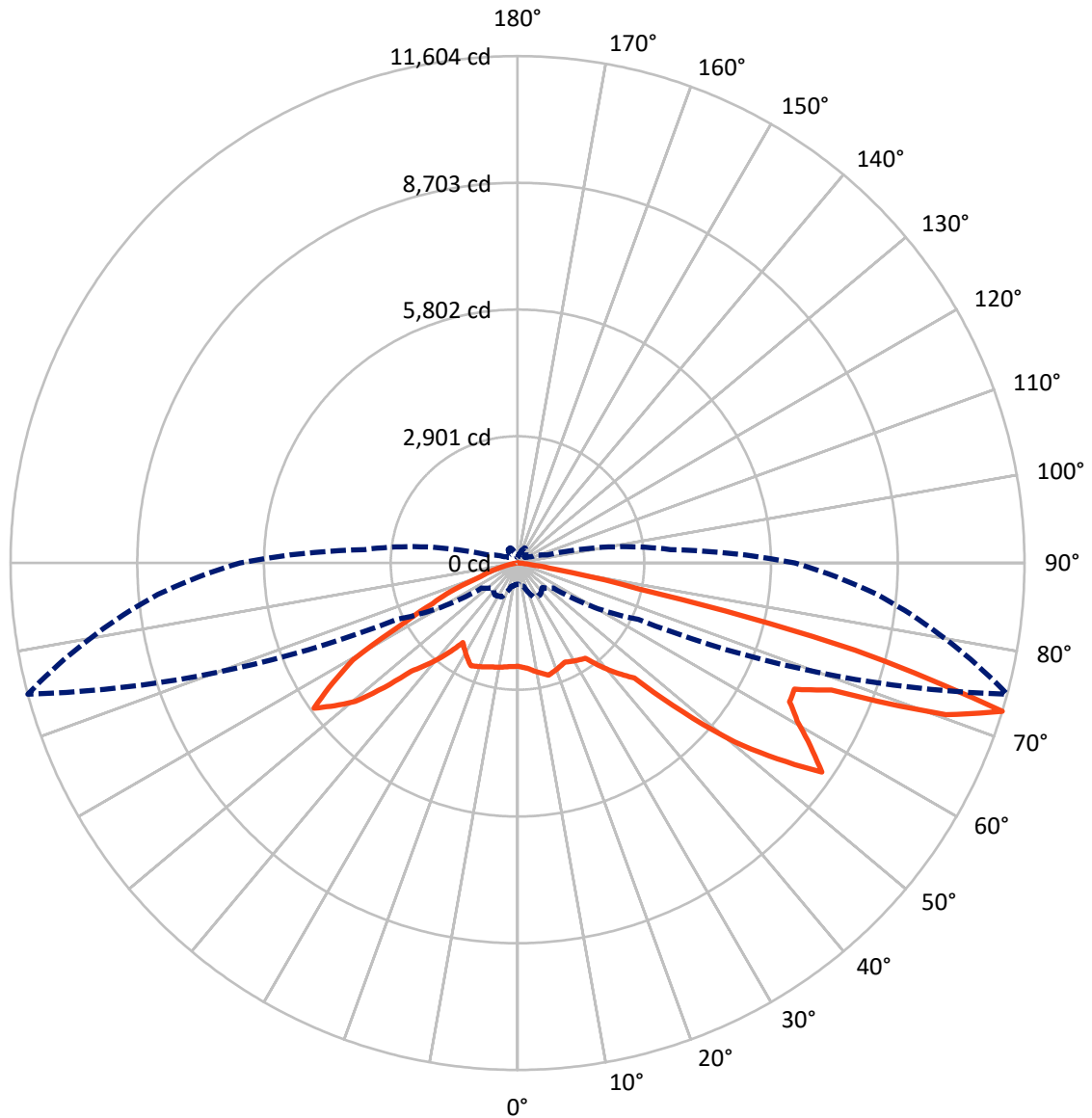
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: 766646  
CATALOG NUMBER: OVF15SXX2D

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: 766646  
 CATALOG NUMBER: OVF15SXX2D

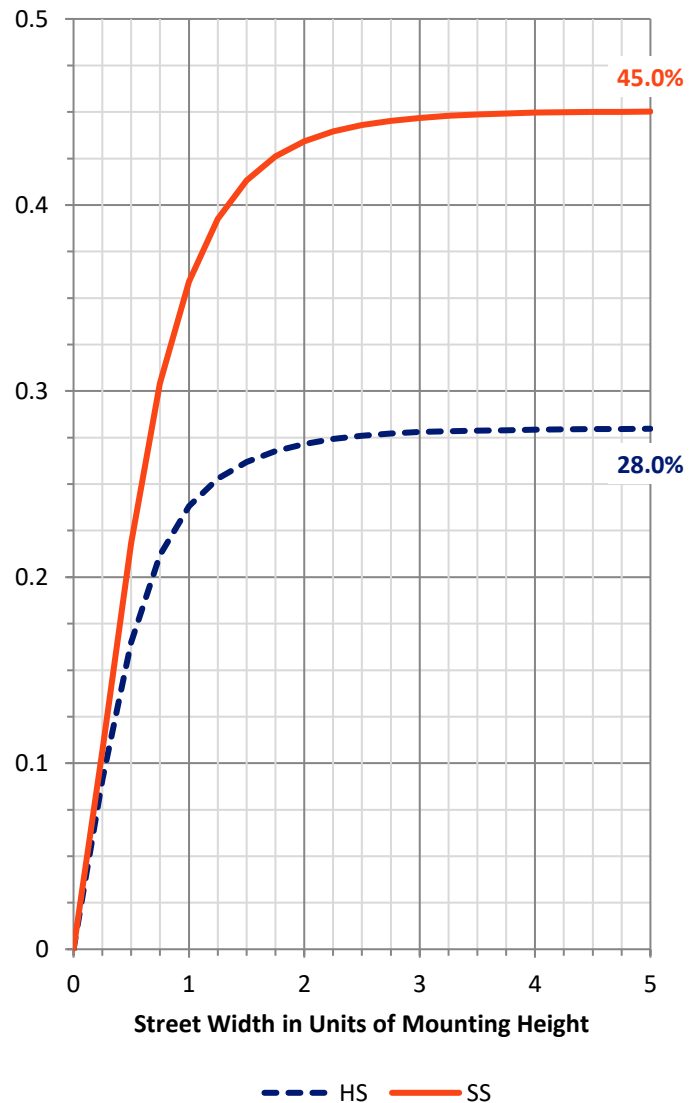
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4499.9	0.0	4499.9
	% Lamp	28.1	0.0	28.1
<b>Street Side</b>	Lumens	7186.5	0.0	7186.5
	% Lamp	44.9	0.0	44.9
<b>Total</b>	Lumens	11686.5	0.0	11686.5
	% Lamp	73.0	0.0	73.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	233.2	2.0	1.5
10°-20°	721.0	6.2	4.5
20°-30°	1162.8	9.9	7.3
30°-40°	1519.6	13.0	9.5
40°-50°	2046.1	17.5	12.8
50°-60°	2650.3	22.7	16.6
60°-70°	2185.7	18.7	13.7
70°-80°	1200.8	10.3	7.5
80°-90°	49.4	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°	11686.5	100.0	73.0
0°-180°	11686.5	100.0	73.0

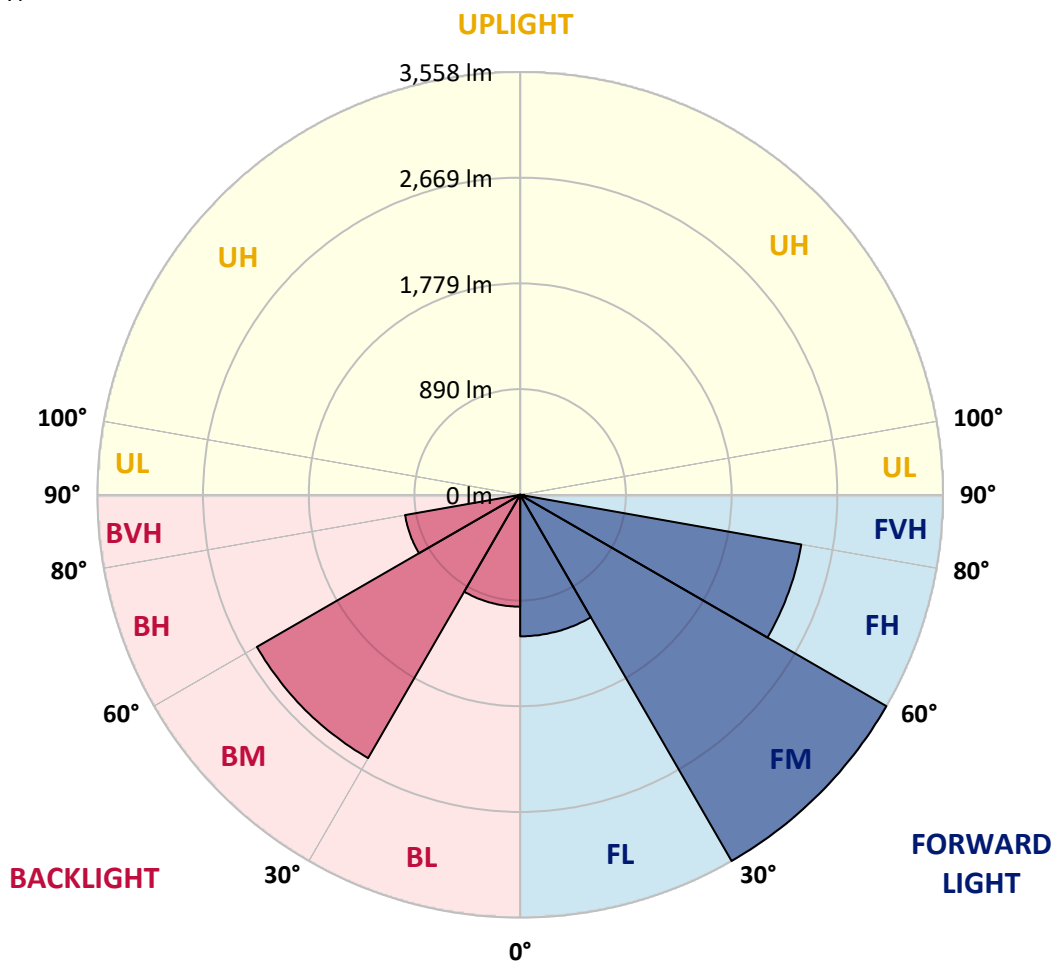


REPORT NUMBER: 766646  
 CATALOG NUMBER: OVF15SXX2D

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

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.5	7.4			
FM	(30°-60°)	3558.0	22.2			
FH	(60°-80°)	2402.5	15.0			G2/5000
FVH	(80°-90°)	34.6	0.2			G1/100
BL	(0°-30°)	941.5	5.9	B2/1000		
BM	(30°-60°)	2558.3	16.0	B3/5000		
BH	(60°-80°)	984.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	14.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		4313.5	27.0			

**BUG Rating: B3-U0-G2**  
 Type II Medium





REPORT NUMBER: 766646  
 CATALOG NUMBER: OVF15SXX2D

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2364	2364	2364	2364	2364	2364	2364	2364	2364	2364	2364
5°	2553	2560	2587	2592	2523	2547	2458	2454	2421	2387	2386
15°	3352	3330	3324	3271	3169	3036	2891	2764	2662	2582	2565
25°	2899	2844	2977	3017	3046	3025	2950	2756	2514	2362	2335
35°	2429	2373	2331	2437	2796	2980	3028	2937	2677	2383	2323
45°	2132	2141	2154	2168	2144	2266	2814	3568	3754	3415	3231
50°	1969	1964	2013	2005	1949	2124	3244	5444	6440	4978	4306
55°	1694	1608	1739	1802	1788	2112	3551	7242	8450	6352	5538
60°	1058	1059	1361	1552	1687	1887	2680	5764	7357	6721	5931
62.5°	876	895	1144	1395	1635	1788	2534	4778	6989	6326	5415
65°	812	780	976	1272	1507	1697	2287	4014	6965	5986	4856
67.5°	693	671	829	1085	1353	1576	1957	3654	7753	6289	5164
70°	582	593	689	885	1152	1395	1719	3442	10398	7964	6261
72.5°	483	497	558	852	896	797	999	3050	11604	8261	6347
75°	252	350	276	409	352	248	479	2178	7983	4284	3349
77.5°	48	85	54	81	102	139	281	1053	2828	1508	1190
80°	29	32	30	45	59	78	139	564	856	502	412
82.5°	16	18	14	26	29	40	59	163	280	179	165
85°	3	6	3	8	8	13	21	58	107	69	64
87.5°	0	2	2	0	0	0	2	13	24	13	10
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



REPORT NUMBER: 766646  
 CATALOG NUMBER: OVF15SXX2D

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2364	2364	2364	2364	2364	2364	2364	2364	2364	2364
5°	2390	2378	2355	2335	2323	2304	2298	2272	2248	2259
15°	2553	2454	2314	2213	2146	2101	2061	2039	2013	1991
25°	2367	2582	2776	2683	2440	2088	1882	1814	1745	1739
35°	2285	2207	2275	2296	2317	2210	1734	1524	1429	1393
45°	3368	3471	3196	2593	1838	1520	1318	1162	1071	1013
50°	4703	4882	3549	2935	1731	1384	1158	978	863	834
55°	5280	5721	3126	2517	1569	1232	989	829	733	697
60°	4727	4369	2293	1834	1242	984	836	700	580	566
62.5°	3838	2988	1895	1443	1117	922	791	620	500	486
65°	3309	2154	1587	1290	1048	871	751	564	419	396
67.5°	3677	1668	1497	1232	1029	839	769	546	307	278
70°	4051	928	644	476	817	764	761	516	251	205
72.5°	3515	708	340	225	214	369	380	248	145	128
75°	1799	489	286	165	139	142	187	139	126	115
77.5°	762	283	206	113	91	89	88	70	77	74
80°	312	152	110	75	53	51	43	35	40	38
82.5°	142	67	48	35	26	26	19	14	18	16
85°	51	18	11	8	6	8	8	5	6	3
87.5°	5	0	0	2	0	2	2	0	0	0
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)