

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: 766427

Luminaire Tested: **LXF15SXX2H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 766427  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF15SXX2H  
Description: 150W HPS TYPE II LEXINGTON POST TOP  
Light Source: 150W HPS CL ED-23.5  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 16000 (1 lamp)  
Luminaire Lumens: 8315.8 lumens  
Efficiency: 52.0%  
Efficacy: 55.4 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B3 - U3 - G3

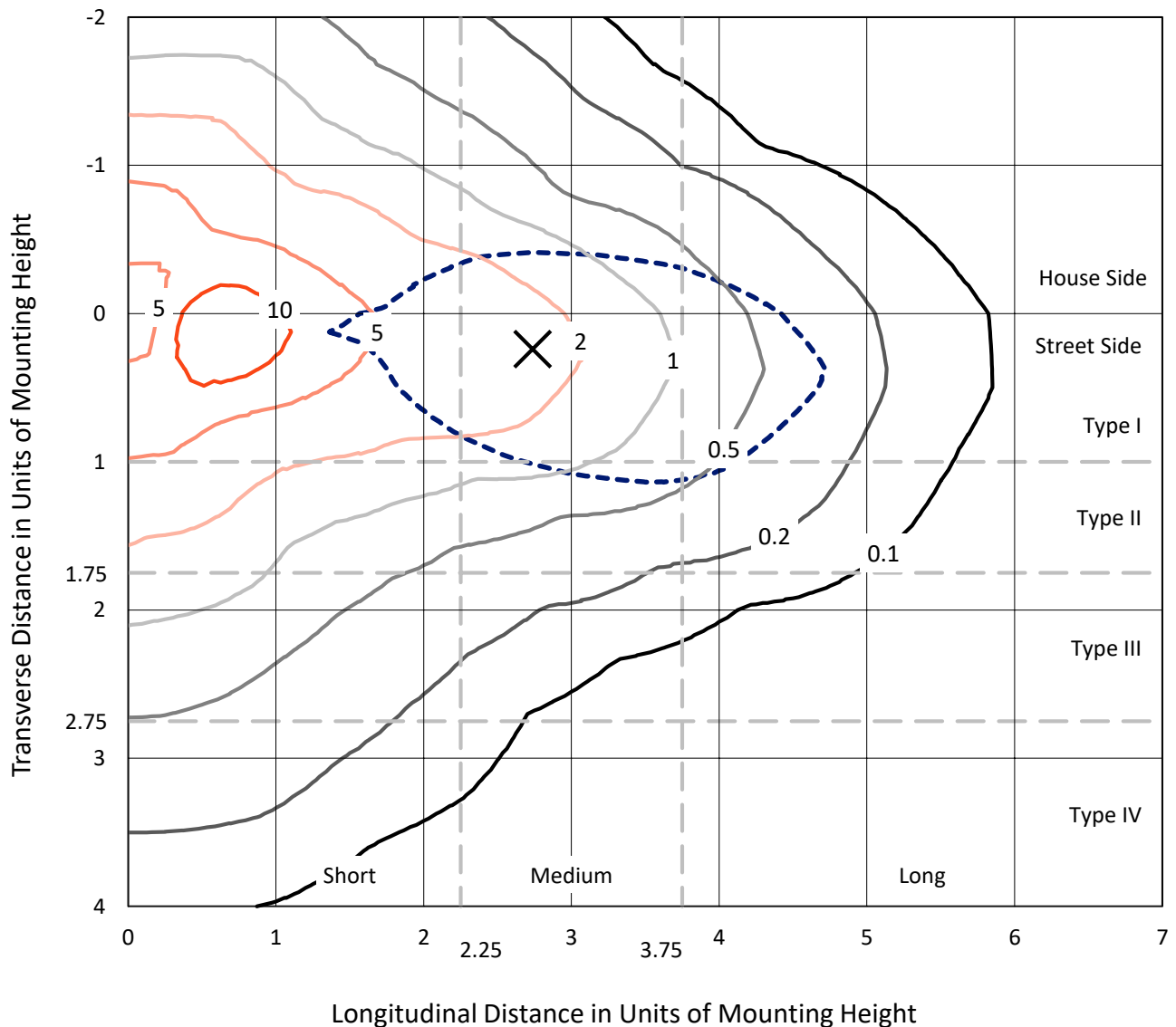
Input Watts (W): 150  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: 766427  
 CATALOG NUMBER: LXF15SXX2H

### Iso-Footcandle Lines of Horizontal Illumination

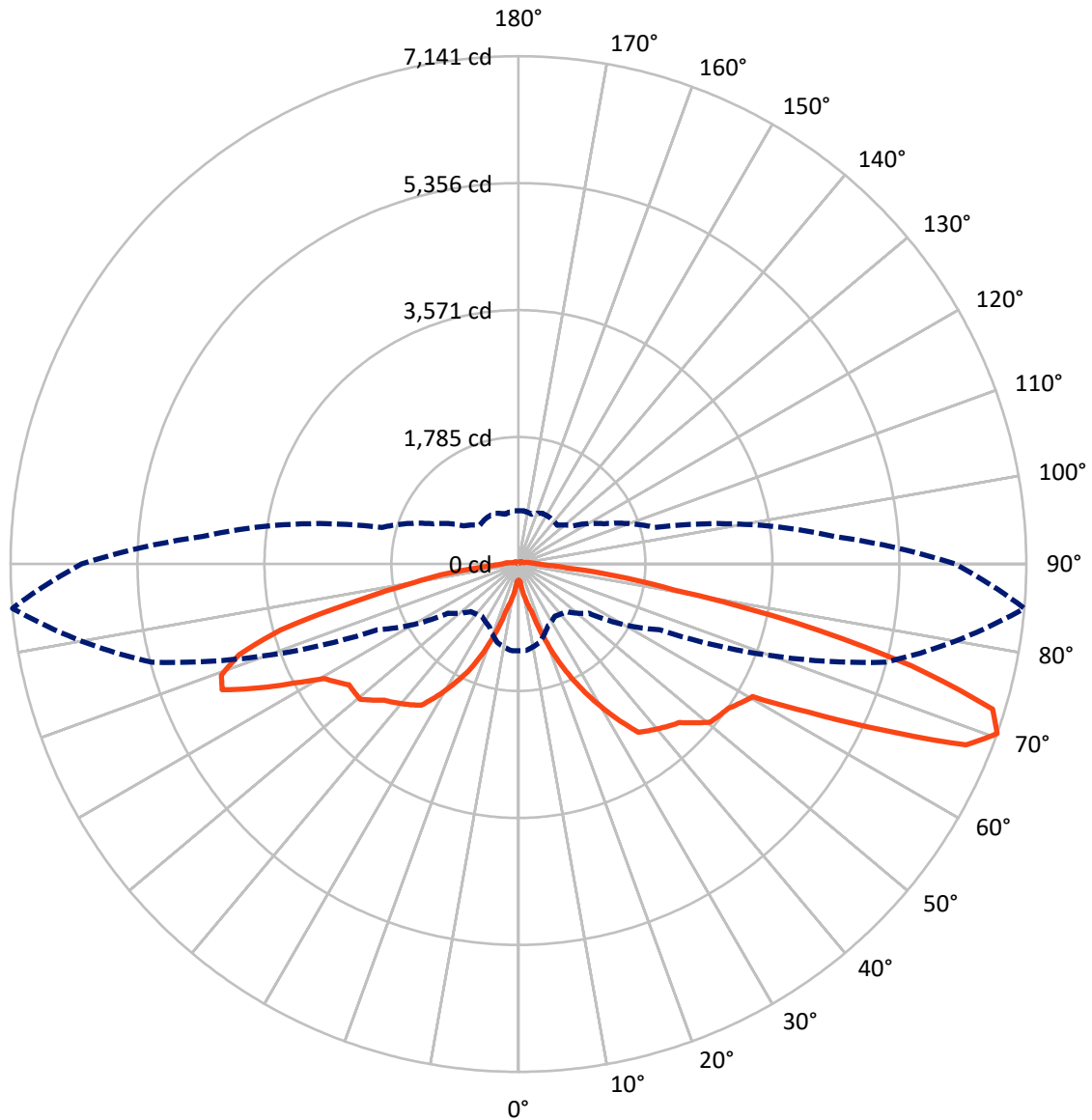
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: 766427  
CATALOG NUMBER: LXF15SXX2H

### Luminous Intensity Polar Plot



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

REPORT NUMBER: 766427  
 CATALOG NUMBER: LXF15SXX2H

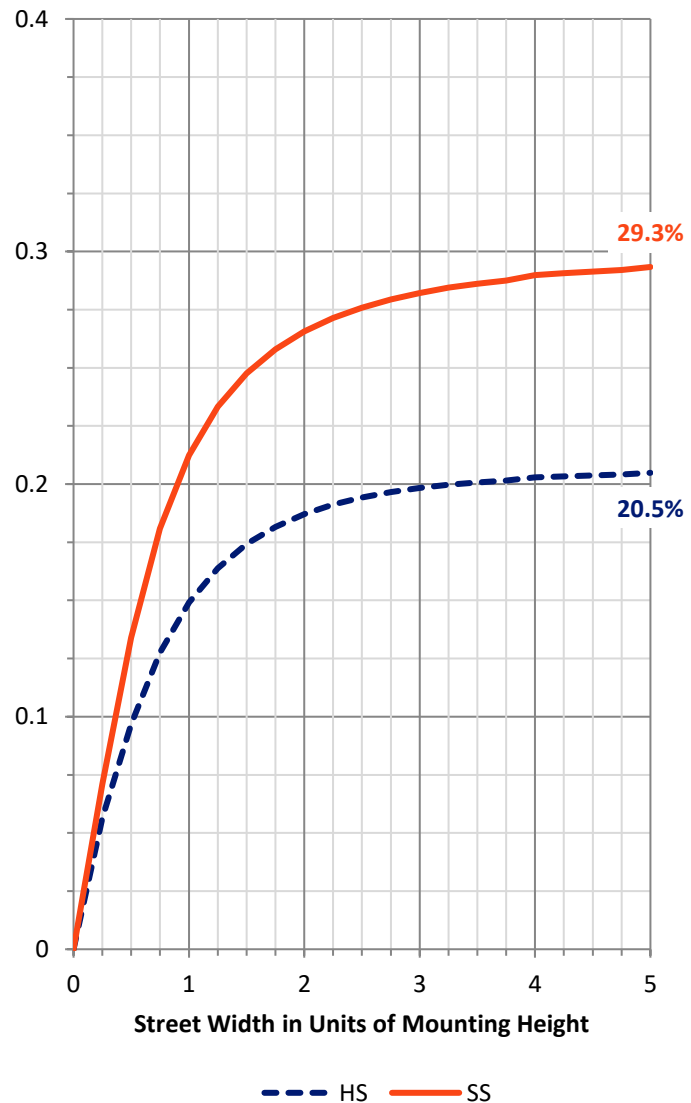
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3308.7	136.6	3445.4
	% Lamp	20.7	0.9	21.5
<b>Street Side</b>	Lumens	4721.3	149.1	4870.4
	% Lamp	29.5	0.9	30.4
<b>Total</b>	Lumens	8030.0	285.7	8315.8
	% Lamp	50.2	1.8	52.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	28.4	0.3	0.2
10°-20°	175.3	2.1	1.1
20°-30°	535.2	6.4	3.3
30°-40°	1001.8	12.0	6.3
40°-50°	1313.5	15.8	8.2
50°-60°	1457.2	17.5	9.1
60°-70°	1786.3	21.5	11.2
70°-80°	1390.2	16.7	8.7
80°-90°	307.3	3.7	1.9
90°-100°	112.2	1.3	0.7
100°-110°	65.5	0.8	0.4
110°-120°	43.9	0.5	0.3
120°-130°	35.1	0.4	0.2
130°-140°	23.1	0.3	0.1
140°-150°	9.3	0.1	0.1
150°-160°	1.8	0.0	0.0
160°-170°	0.2	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	8030.0	96.6	50.2
0°-180°	8315.8	100.0	52.0

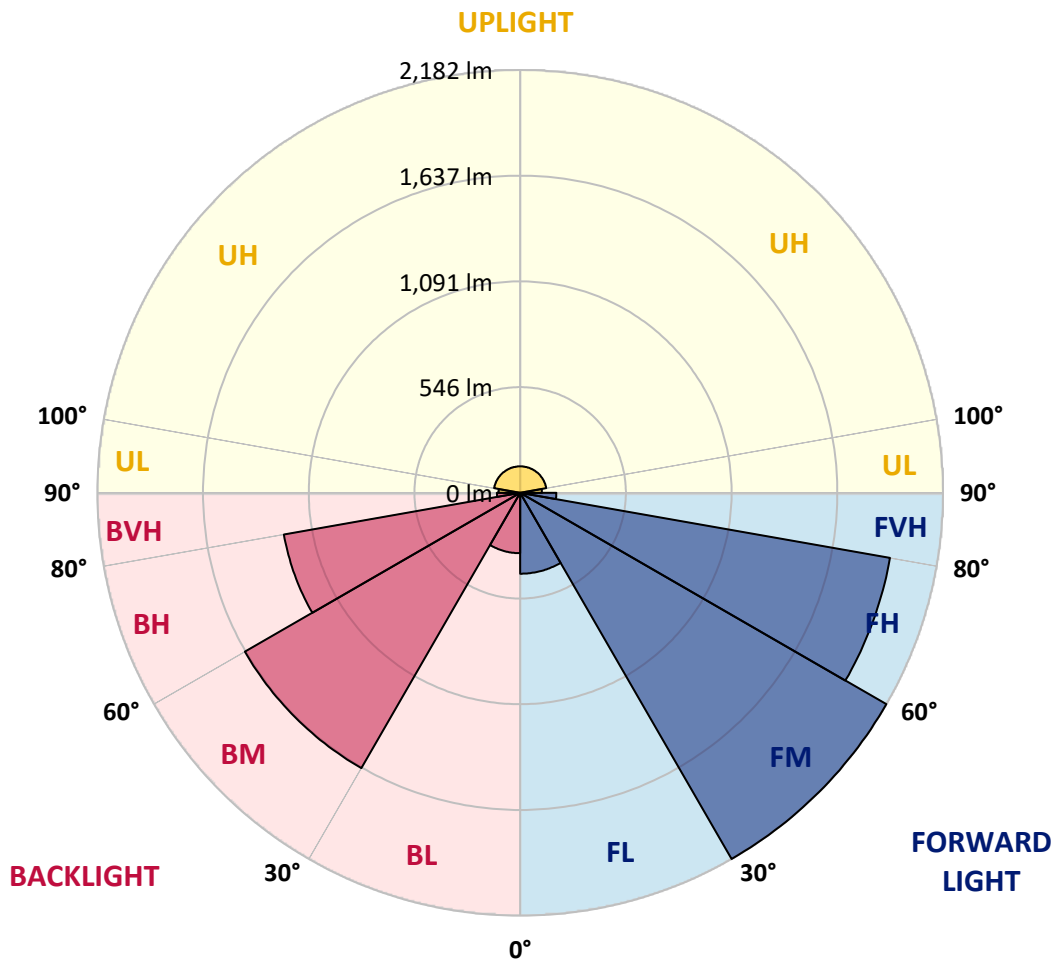


REPORT NUMBER: 766427  
 CATALOG NUMBER: LXF15SXX2H

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

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.6	2.6			
FM (30°-60°)	2182.4	13.6			
FH (60°-80°)	1938.1	12.1			G2/5000
FVH (80°-90°)	187.0	1.2			G2/225
BL (0°-30°)	311.7	1.9	B1/500		
BM (30°-60°)	1640.7	10.3	B2/2500		
BH (60°-80°)	1238.5	7.7	B3/2500		G3/2500
BVH (80°-90°)	120.3	0.8			G2/225
UL (90°-100°)	112.2	0.7		U3/500	
UH (100°-180°)	136.6	0.9		U3/500	
Trapped Light	7684.2	48.0			

**BUG Rating: B3-U3-G3**  
 Type II Medium





REPORT NUMBER: 766427  
 CATALOG NUMBER: LXF15SXX2H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	224	224	224	224	224	224	224	224	224	224	224
5°	240	234	231	234	243	246	244	247	251	246	257
15°	437	421	433	472	493	563	636	688	718	692	677
25°	938	943	952	991	1054	1277	1527	1827	1881	1817	1729
35°	1552	1512	1597	1505	1555	1796	2208	2803	3087	2905	2671
45°	1348	1307	1353	1289	1224	1359	1763	2517	3059	3179	2981
50°	1306	1250	1309	1289	1193	1275	1653	2376	3134	3494	3249
55°	1248	1177	1196	1174	1075	1143	1502	2240	3061	3583	3453
60°	1303	1227	1206	1127	982	1039	1491	2311	3199	3785	3652
62.5°	1321	1257	1224	1152	988	1104	1485	2278	3643	4588	4235
65°	1251	1215	1181	1127	988	1075	1450	2299	4204	5619	5270
67.5°	1242	1216	1148	1051	961	1028	1345	2211	4994	6789	5991
70°	1221	1221	1143	970	894	946	1206	2189	5335	7141	6142
72.5°	1142	1157	1119	893	790	812	1017	1977	5064	6974	5931
75°	859	861	884	738	797	630	823	1552	4335	5701	5009
77.5°	601	670	606	521	498	503	613	1104	2971	3996	3386
80°	401	448	448	357	357	361	396	735	1570	2229	2136
82.5°	210	226	269	241	243	264	279	418	950	1362	1386
85°	103	105	120	140	178	170	191	285	550	679	700
87.5°	85	88	96	111	129	141	156	217	308	364	342
90°	76	79	90	102	114	128	141	172	225	261	260
95°	58	58	68	77	87	94	103	126	159	176	173
105°	33	33	44	47	52	53	56	64	71	73	70
115°	43	39	44	36	38	39	39	44	55	53	53
125°	49	55	44	35	32	32	32	41	56	56	58
135°	52	47	41	32	23	23	24	30	39	47	46
145°	18	18	18	12	8	6	6	11	14	15	17
155°	6	6	5	2	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: 766427  
 CATALOG NUMBER: LXF15SXX2H

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	224	224	224	224	224	224	224	224	224	224
5°	255	249	254	258	254	251	246	251	246	252
15°	653	606	542	477	440	436	422	443	445	459
25°	1611	1283	1007	814	739	732	774	806	861	829
35°	2410	1892	1442	1171	1048	1096	1215	1316	1289	1303
45°	2687	2086	1603	1221	1039	1019	1154	1165	1124	1148
50°	2927	2095	1576	1184	1016	1016	1133	1057	1013	1032
55°	2927	2097	1514	1089	982	1007	1093	964	887	878
60°	3170	2200	1650	1163	944	979	1025	887	799	780
62.5°	3565	2227	1578	1110	922	955	979	853	821	820
65°	4046	2206	1523	1067	897	934	943	834	864	865
67.5°	4526	2186	1417	1057	846	865	888	820	862	859
70°	4458	1984	1338	935	771	788	788	726	752	747
72.5°	4130	1532	1005	774	641	619	592	563	619	619
75°	3471	1367	747	565	504	483	454	404	419	407
77.5°	2379	867	468	411	387	366	336	279	285	270
80°	1579	484	281	287	301	255	187	167	153	146
82.5°	1098	329	178	175	188	140	114	114	112	106
85°	554	266	156	138	128	114	100	97	93	94
87.5°	337	205	141	123	109	100	90	88	87	82
90°	234	179	134	111	102	94	84	82	80	79
95°	172	141	105	88	79	74	68	67	62	61
105°	71	67	58	52	50	47	43	39	35	33
115°	53	50	41	39	38	36	33	38	33	36
125°	56	47	36	33	32	32	30	39	43	46
135°	43	35	29	24	23	24	29	39	49	49
145°	17	14	9	6	8	8	12	14	18	18
155°	0	0	0	0	2	2	3	5	6	6
165°	0	0	0	0	0	2	2	0	0	0
175°	0	0	0	0	0	2	2	0	2	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)