

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: 766413

Luminaire Tested: **LXF15SXX3H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766413
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF15SXX3H
Description: 150W HPS TYPE III LEXINGTON POST TOP
Light Source: 150W HPS CL E-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 7883.1 lumens
Efficiency: 49.3%
Efficacy: 52.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 1.25' x H: 1.25')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U3 - G3

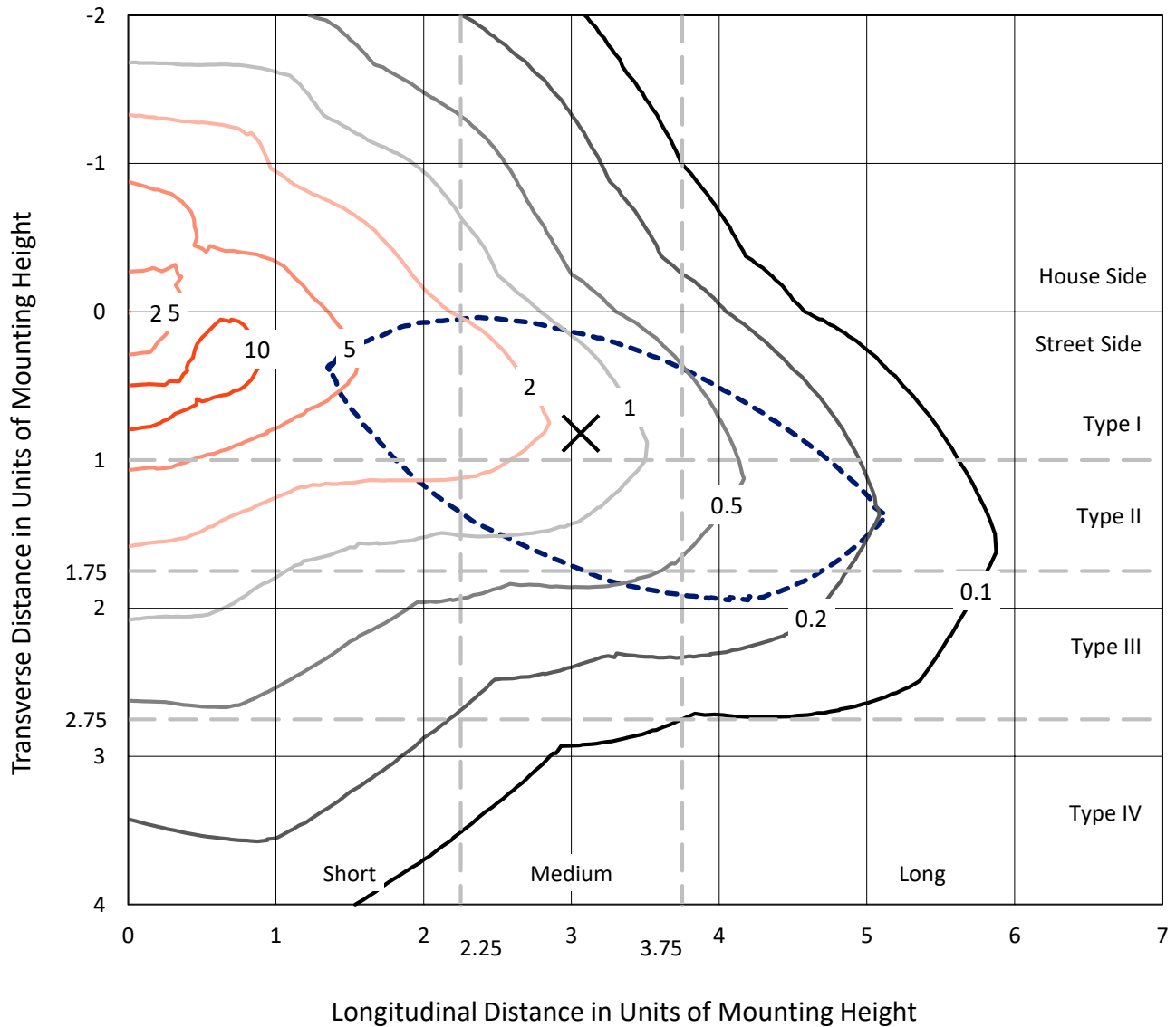
Input Watts (W): 150
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

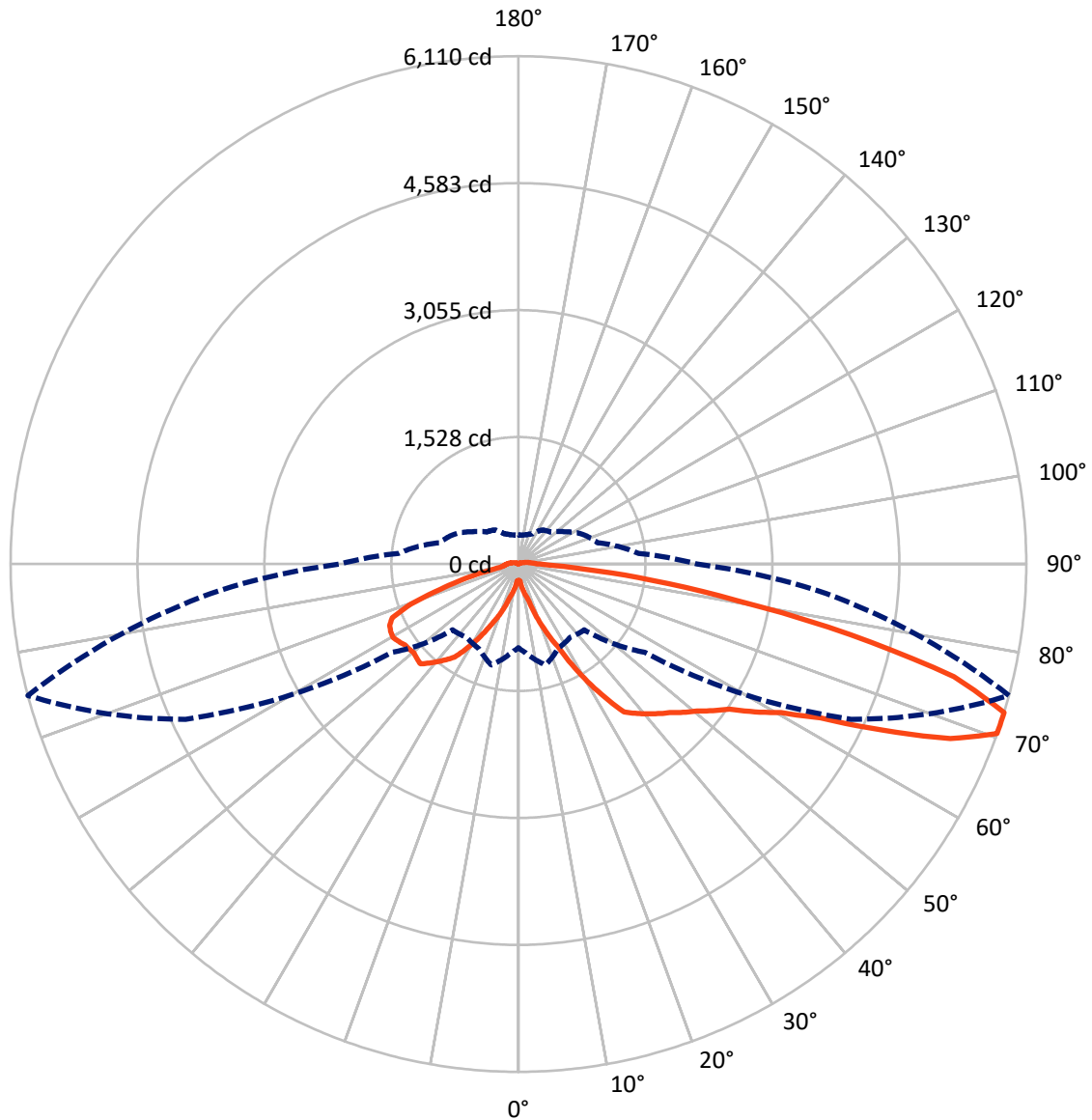
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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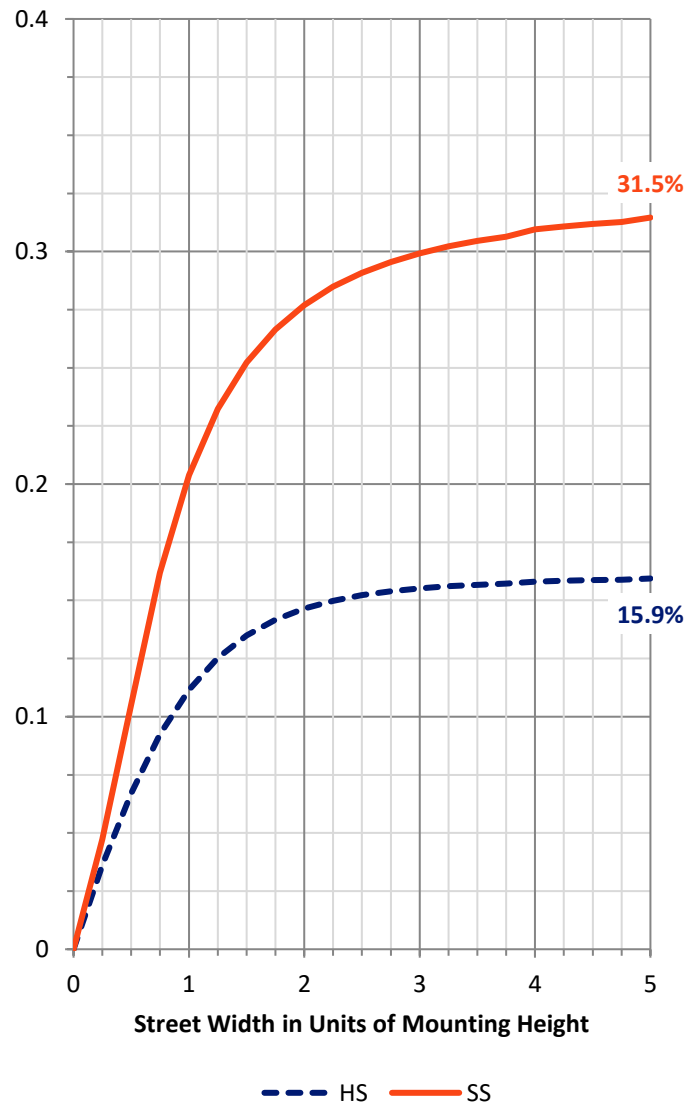
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2582.1	94.2	2676.3
	% Lamp	16.1	0.6	16.7
Street Side	Lumens	5090.0	116.8	5206.8
	% Lamp	31.8	0.7	32.5
Total	Lumens	7672.1	211.0	7883.1
	% Lamp	48.0	1.3	49.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.4	0.3	0.2
10°-20°	150.1	1.9	0.9
20°-30°	475.7	6.0	3.0
30°-40°	943.7	12.0	5.9
40°-50°	1277.0	16.2	8.0
50°-60°	1435.3	18.2	9.0
60°-70°	1691.2	21.5	10.6
70°-80°	1293.2	16.4	8.1
80°-90°	334.7	4.2	2.1
90°-100°	113.4	1.4	0.7
100°-110°	64.0	0.8	0.4
110°-120°	31.3	0.4	0.2
120°-130°	8.4	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°	7672.1	97.3	48.0
0°-180°	7883.1	100.0	49.3

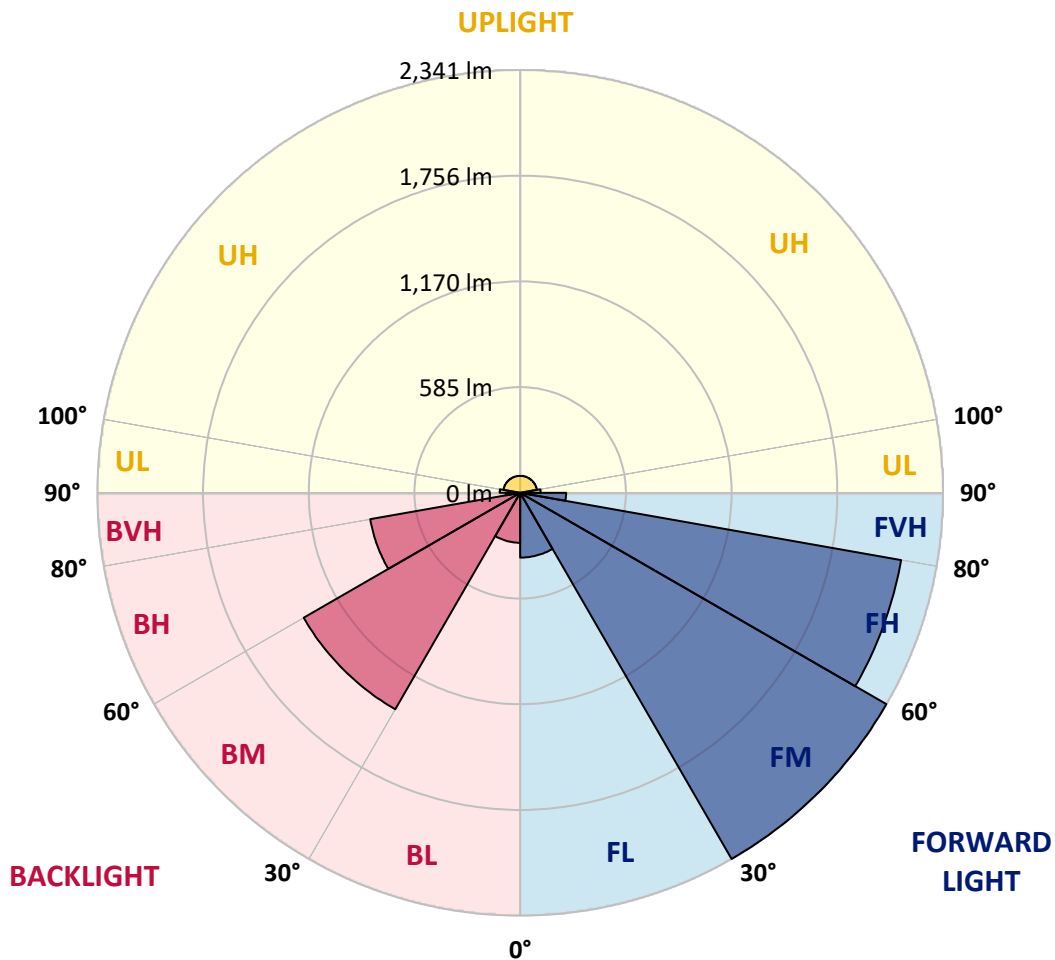


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.5	2.2			
FM	(30°-60°)	2340.9	14.6			
FH	(60°-80°)	2141.6	13.4			G2/5000
FVH	(80°-90°)	254.3	1.6			G3/500
BL	(0°-30°)	276.6	1.7	B1/500		
BM	(30°-60°)	1383.7	8.6	B2/2500		
BH	(60°-80°)	842.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	80.4	0.5			G1/100
UL	(90°-100°)	113.4	0.7		U3/500	
UH	(100°-180°)	94.2	0.6		U3/500	
Trapped Light		8116.9	50.7			

BUG Rating: B2-U3-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	195	195	195	195	195	195	195	195	195	195	195
5°	200	200	202	200	202	202	200	202	208	206	210
15°	456	475	449	439	471	442	468	472	446	454	456
25°	1236	1278	1224	1142	1080	1099	1136	1146	1096	1022	964
35°	2296	2279	2214	2068	2016	2106	2322	2382	2188	1904	1760
45°	1619	1559	1735	1746	1940	2200	2589	2735	2552	2224	2076
50°	1452	1417	1461	1441	1623	1933	2337	2691	2782	2475	2233
55°	1376	1321	1347	1283	1386	1599	2089	2710	3081	2722	2434
60°	1257	1219	1247	1165	1201	1400	2066	3056	3629	3037	2502
62.5°	1260	1228	1275	1162	1158	1429	2165	3281	4074	3368	2718
65°	1212	1184	1288	1207	1204	1429	2211	3694	4821	3690	2721
67.5°	1127	1136	1263	1215	1196	1385	2182	4175	5606	3983	2841
70°	1096	1121	1268	1199	1166	1283	2121	4529	6108	3887	2640
72.5°	1008	1077	1259	1124	1080	1121	1855	4418	6110	3595	2145
75°	796	917	1119	982	897	882	1532	4110	5413	2873	1760
77.5°	613	650	861	741	695	688	1190	3126	4084	1995	1049
80°	416	460	594	544	541	498	799	2315	2657	1248	724
82.5°	249	288	425	364	392	354	644	1262	1616	791	490
85°	115	140	182	214	264	228	348	793	797	430	313
87.5°	88	91	118	147	179	188	251	342	377	254	223
90°	73	77	94	126	152	159	181	217	223	208	188
95°	55	59	76	97	115	120	123	135	149	149	140
105°	36	36	49	55	58	59	59	64	59	56	55
115°	49	44	44	38	41	41	38	41	38	38	39
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°	195	195	195	195	195	195	195	195	195	195
5°	210	210	217	217	222	229	235	232	232	234
15°	456	416	402	401	418	440	472	495	533	537
25°	917	811	730	698	723	800	940	1037	1142	1163
35°	1625	1359	1087	914	876	988	1114	1189	1177	1236
45°	1939	1684	1304	1045	934	1045	1092	1061	1083	1142
50°	1992	1650	1277	1049	934	1075	1055	998	995	1029
55°	2114	1678	1309	1055	975	1136	1013	864	827	838
60°	2155	1748	1414	1140	979	1077	923	774	732	726
62.5°	2174	1739	1452	1119	938	1036	897	752	701	711
65°	2130	1716	1464	1110	891	988	846	668	651	647
67.5°	2117	1650	1382	1022	827	847	701	591	577	589
70°	1778	1380	1165	897	667	711	554	516	477	462
72.5°	1450	987	850	676	545	500	401	363	348	349
75°	1028	703	583	531	384	372	281	276	228	200
77.5°	679	404	418	369	287	220	170	159	147	143
80°	377	220	228	258	176	146	126	128	117	109
82.5°	310	190	182	173	144	125	109	106	103	100
85°	240	169	162	153	126	111	100	97	91	91
87.5°	196	156	143	137	115	103	90	88	85	82
90°	176	141	132	123	102	90	82	82	79	79
95°	137	115	105	97	80	71	70	70	64	64
105°	55	56	59	55	47	46	43	39	35	33
115°	39	35	36	38	35	33	30	30	30	30
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)