

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: P10094

Luminaire Tested: **LXF10S55**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: P10094  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF10S55  
Description: LEXINGTON HID POST TOP FIXTURE  
WITH DIFFUSE TYPE 5 PANELS  
AND VERTICAL LAMP SOCKET ASSEMBLY  
Light Source: MOGUL BASE ED23.5 CLEAR HIGH PRESSURE SODIUM  
LU100/U 100 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 9500 (1 lamp)  
Luminaire Lumens: 4305.8 lumens  
Efficiency: 45.3%  
Efficacy: 43.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.96' x L: 0.96' x H: 0.81')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B2 - U4 - G3

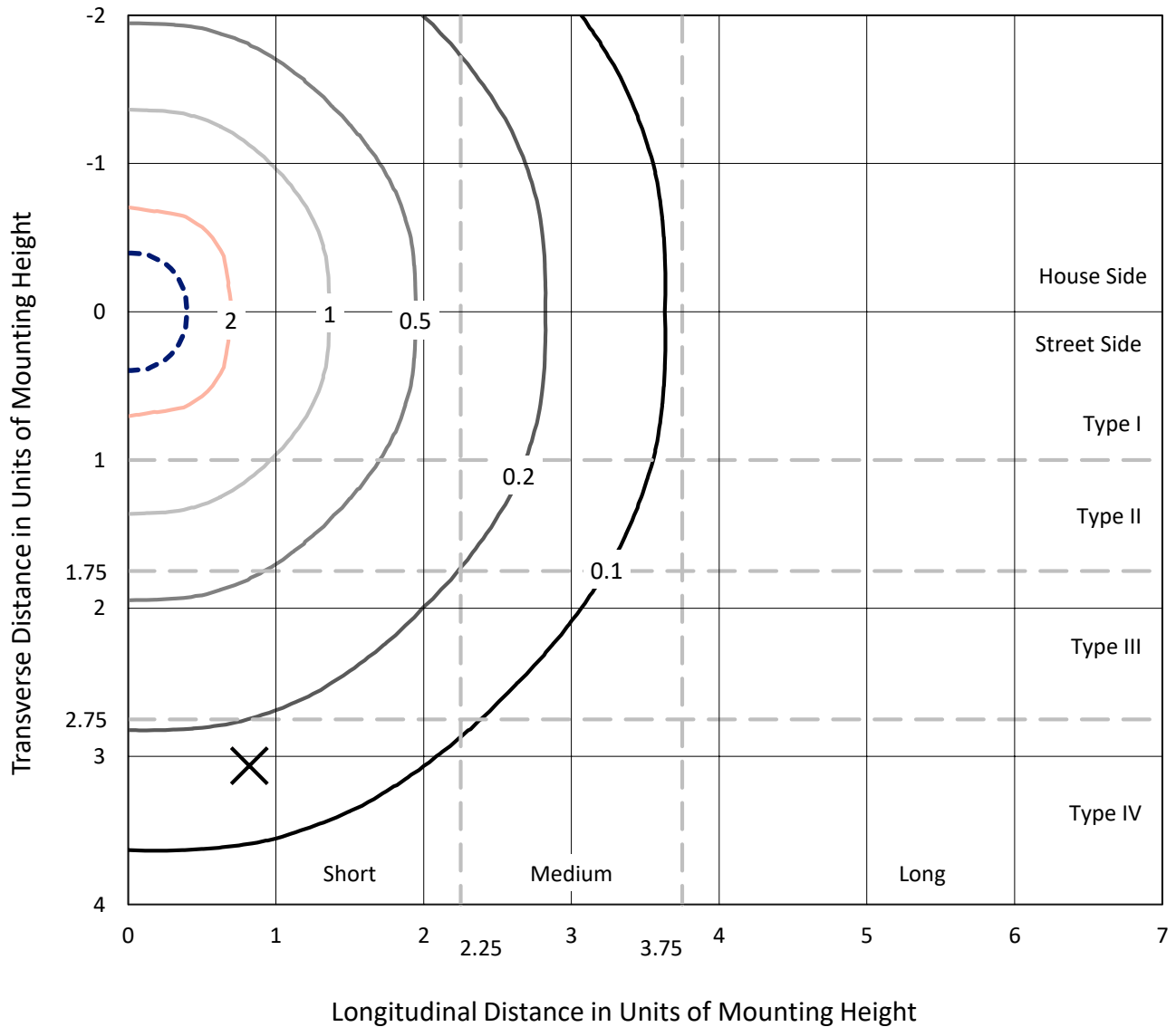
Input Watts (W): 100  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

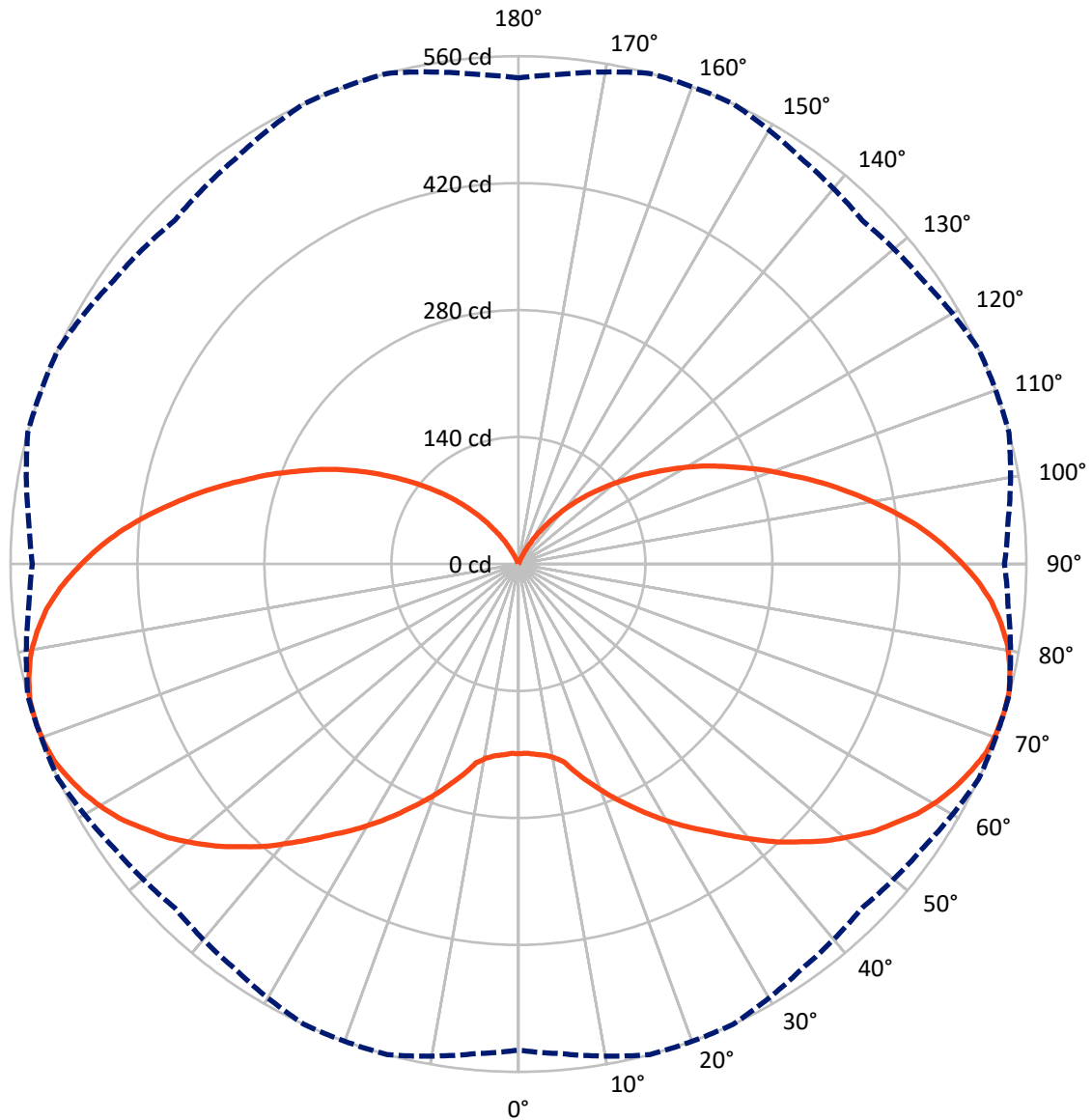
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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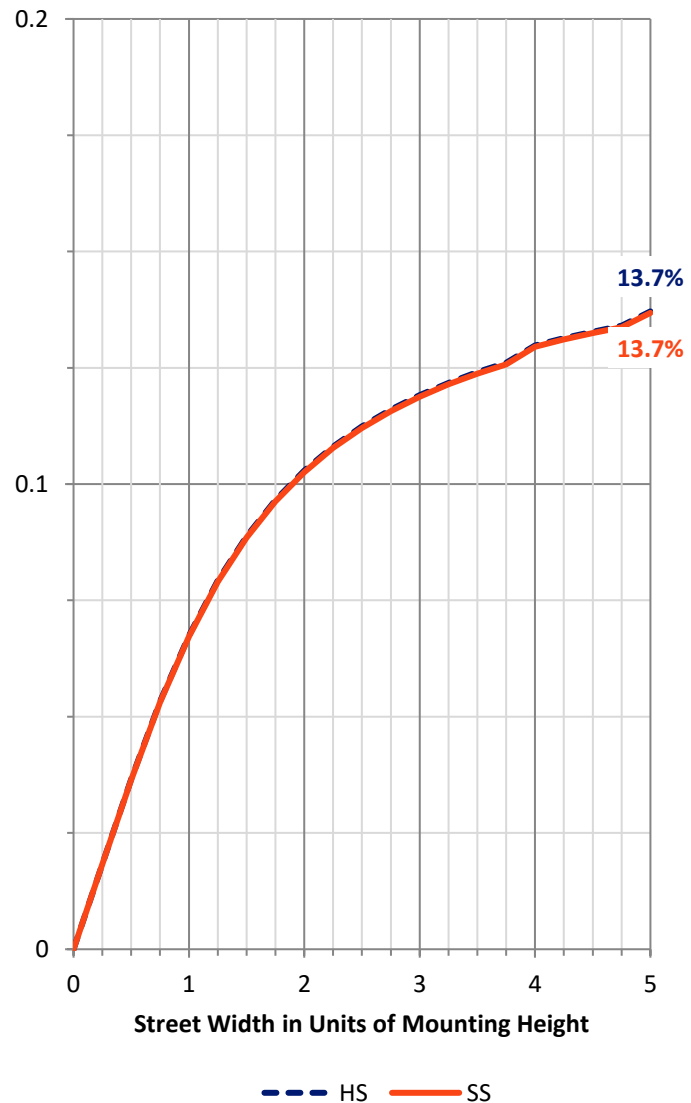
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1464.6	688.3	2152.9
	% Lamp	15.4	7.2	22.7
<b>Street Side</b>	Lumens	1464.6	688.3	2152.9
	% Lamp	15.4	7.2	22.7
<b>Total</b>	Lumens	2929.1	1376.6	4305.8
	% Lamp	30.8	14.5	45.3

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	20.3	0.5	0.2
10°-20°	68.0	1.6	0.7
20°-30°	139.7	3.2	1.5
30°-40°	234.1	5.4	2.5
40°-50°	343.0	8.0	3.6
50°-60°	450.9	10.5	4.7
60°-70°	536.6	12.5	5.6
70°-80°	577.6	13.4	6.1
80°-90°	558.9	13.0	5.9
90°-100°	480.2	11.2	5.1
100°-110°	370.4	8.6	3.9
110°-120°	259.0	6.0	2.7
120°-130°	157.8	3.7	1.7
130°-140°	78.8	1.8	0.8
140°-150°	27.1	0.6	0.3
150°-160°	3.4	0.1	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	2929.1	68.0	30.8
0°-180°	4305.8	100.0	45.3

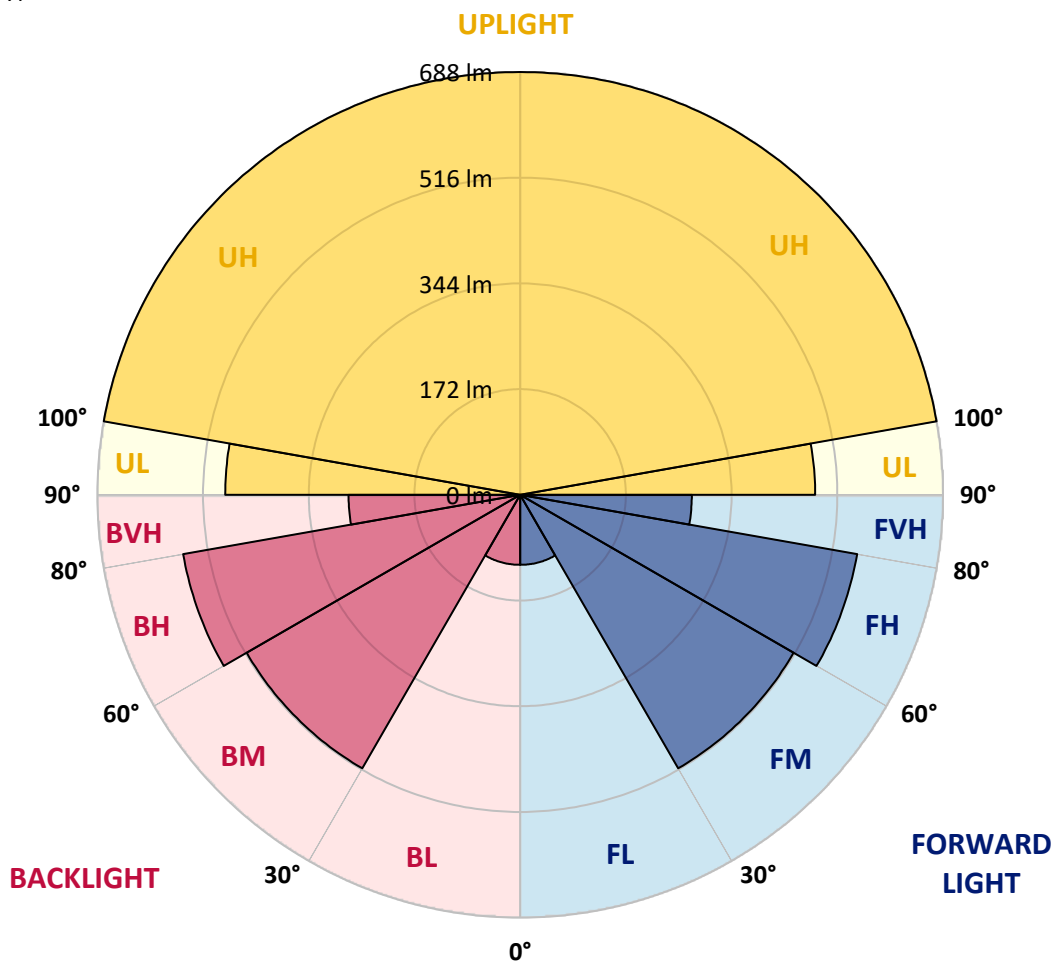


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.0	1.2			
FM (30°-60°)	514.0	5.4			
FH (60°-80°)	557.1	5.9			G0/660
FVH (80°-90°)	279.4	2.9			G3/500
BL (0°-30°)	114.0	1.2	B1/500		
BM (30°-60°)	514.0	5.4	B1/1000		
BH (60°-80°)	557.1	5.9	B2/1000		G0/660
BVH (80°-90°)	279.4	2.9			G3/500
UL (90°-100°)	480.2	5.1		U3/500	
UH (100°-180°)	688.3	7.2		U4/1000	
Trapped Light	5194.2	54.7			

**BUG Rating: B2-U4-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	209	209	209	209	209	209	209	209	209	209	209
2.5°	209	209	209	209	209	210	209	209	209	209	209
5°	211	211	211	211	211	211	211	211	211	211	211
7.5°	213	213	213	213	213	213	213	213	213	213	213
10°	217	217	217	217	217	217	217	217	217	217	217
12.5°	226	226	224	222	221	221	221	222	224	226	226
15°	240	240	239	235	231	228	231	235	239	240	240
17.5°	255	255	253	249	245	243	245	249	253	255	255
20°	270	270	268	264	261	263	261	264	268	270	270
22.5°	286	285	283	279	281	283	281	279	283	285	286
25°	301	301	298	295	301	303	301	295	298	301	301
27.5°	317	316	314	314	321	323	321	314	314	316	317
30°	333	333	330	334	341	343	341	334	330	333	333
32.5°	349	349	346	353	360	362	360	353	346	349	349
35°	365	365	362	373	379	381	379	373	362	365	365
37.5°	383	382	380	392	398	399	398	392	380	382	383
40°	399	399	399	411	416	417	416	411	399	399	399
42.5°	416	415	419	429	434	434	434	429	419	415	416
45°	432	431	437	447	450	450	450	447	437	431	432
47.5°	448	447	456	465	466	465	466	465	456	447	448
50°	463	462	473	481	481	479	481	481	473	462	463
52.5°	477	477	490	497	495	492	495	497	490	477	477
55°	491	490	504	511	507	503	507	511	504	490	491
57.5°	503	502	519	523	517	513	517	523	519	502	503
60°	513	514	531	535	527	522	527	535	531	514	513
62.5°	522	523	541	544	535	528	535	544	541	523	522
65°	529	531	549	551	541	533	541	551	549	531	529
67.5°	534	538	556	557	544	536	544	557	556	538	534
70°	536	541	559	560	546	537	546	560	559	541	536
72.5°	536	542	560	560	545	536	545	560	560	542	536
75°	534	541	559	558	543	534	543	558	559	541	534
77.5°	530	536	554	554	538	529	538	554	554	536	530
80°	524	530	547	546	532	523	532	546	547	530	524
82.5°	514	520	536	537	522	513	522	537	536	520	514
85°	502	507	523	524	511	503	511	524	523	507	502
87.5°	487	491	506	508	497	490	497	508	506	491	487
90°	469	472	486	490	481	475	481	490	486	472	469
92.5°	449	451	465	470	464	458	464	470	465	451	449
95°	428	428	442	449	445	441	445	449	442	428	428
97.5°	405	405	417	426	425	422	425	426	417	405	405
100°	382	381	391	403	404	403	404	403	391	381	382
102.5°	358	357	366	379	383	383	383	379	366	357	358
105°	336	334	341	355	362	363	362	355	341	334	336
107.5°	313	312	316	331	340	342	340	331	316	312	313
110°	292	290	294	307	317	322	317	307	294	290	292



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	272	270	271	283	295	300	295	283	271	270	272
115°	252	251	250	261	271	275	271	261	250	251	252
117.5°	235	233	230	238	247	251	247	238	230	233	235
120°	216	215	209	215	223	226	223	215	209	215	216
122.5°	197	196	189	192	200	202	200	192	189	196	197
125°	179	178	170	170	177	180	177	170	170	178	179
127.5°	161	160	152	149	155	158	155	149	152	160	161
130°	144	143	135	130	134	136	134	130	135	143	144
132.5°	128	127	119	112	113	115	113	112	119	127	128
135°	112	111	104	95	94	94	94	95	104	111	112
137.5°	96	95	89	79	75	75	75	79	89	95	96
140°	82	81	75	64	58	57	58	64	75	81	82
142.5°	67	66	61	51	43	42	43	51	61	66	67
145°	54	53	48	40	30	27	30	40	48	53	54
147.5°	42	41	37	29	19	15	19	29	37	41	42
150°	30	29	26	19	11	6	11	19	26	29	30
152.5°	19	18	16	11	5	2	5	11	16	18	19
155°	10	9	8	4	1	0	1	4	8	9	10
157.5°	3	3	2	1	0	0	0	1	2	3	3
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)