

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: P10095

Luminaire Tested: **LXF70S55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: P10095
Test Lab: PEACHTREE CITY
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF70S55
Description: LEXINGTON HID TYPE 5 POST TOP FIXTURE
WITH DIFFUSE PANELS
AND VERTICAL LAMP SOCKET ASSEMBLY
Light Source: MOGUL BASE ED23.5 CLEAR HIGH PRESSURE SODIUM
LU70/U 70 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 6400 (1 lamp)
Luminaire Lumens: 2989.8 lumens
Efficiency: 46.7%
Efficacy: 42.7 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: B1 - U4 - G2

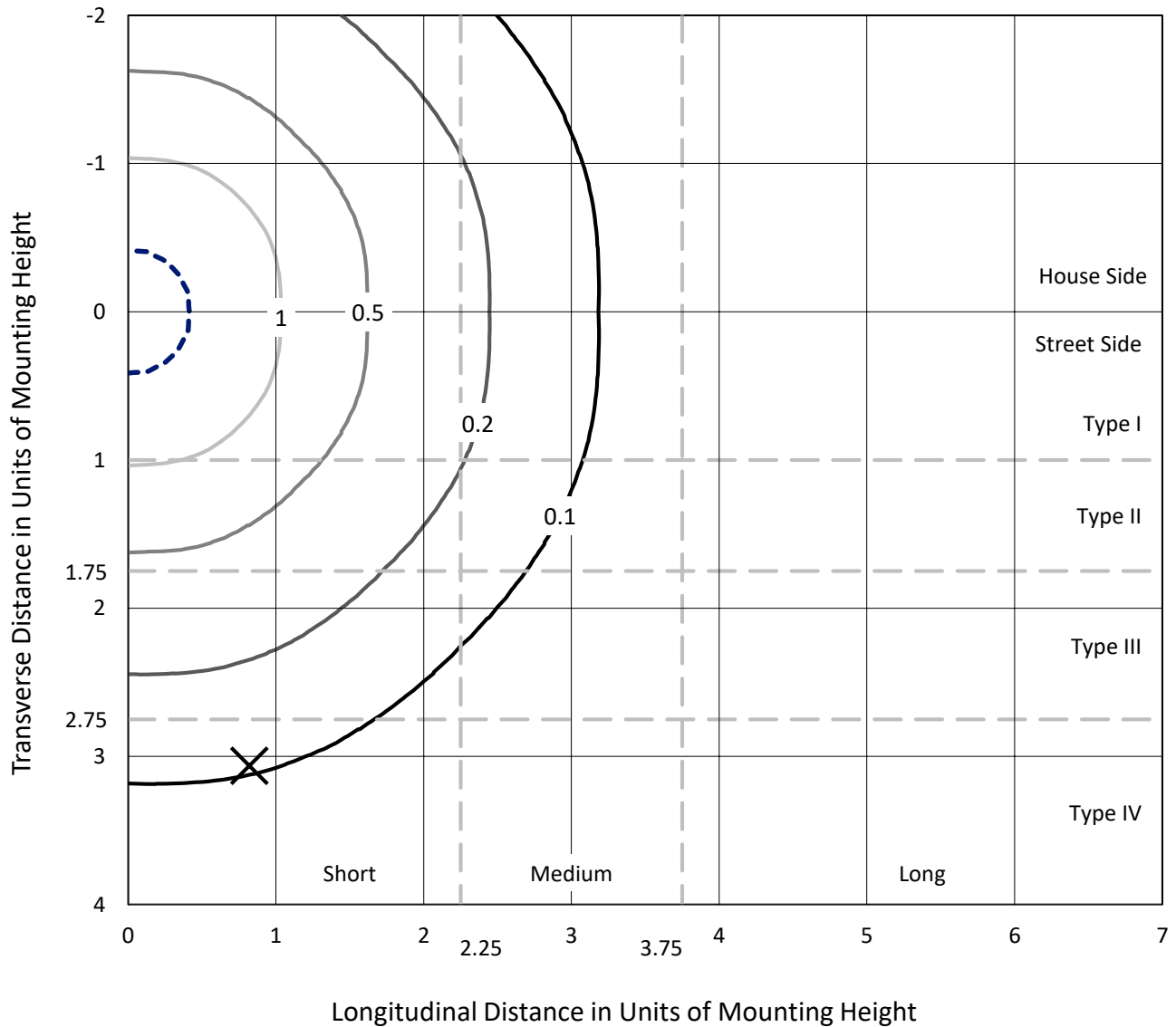
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

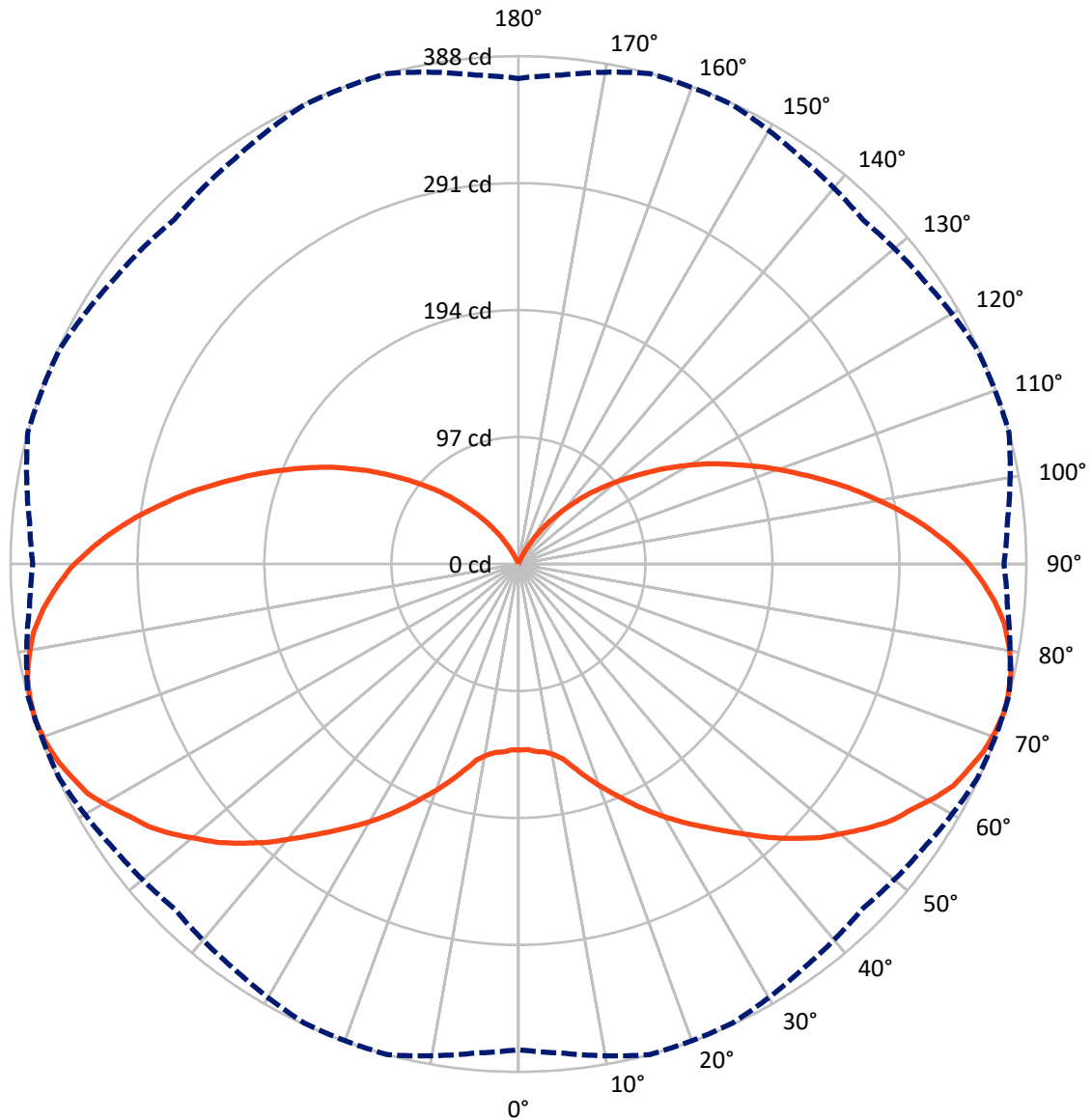
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 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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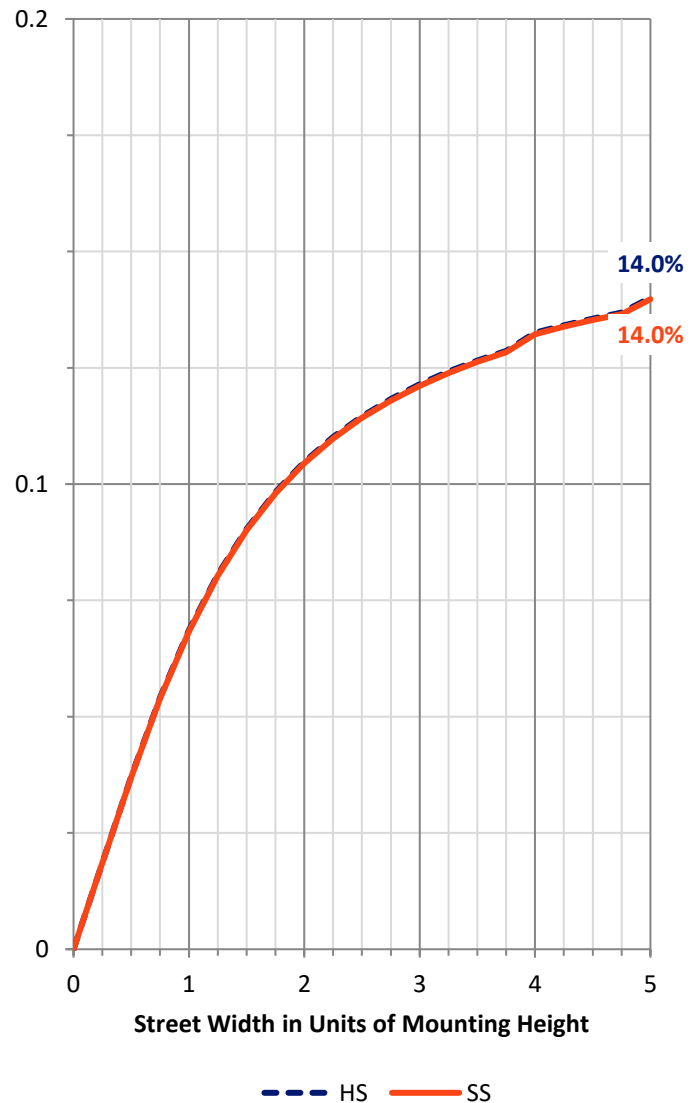
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1009.7	485.2	1494.9
	% Lamp	15.8	7.6	23.4
Street Side	Lumens	1009.7	485.2	1494.9
	% Lamp	15.8	7.6	23.4
Total	Lumens	2019.4	970.4	2989.8
	% Lamp	31.6	15.2	46.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.8	0.5	0.2
10°-20°	46.3	1.5	0.7
20°-30°	95.1	3.2	1.5
30°-40°	159.6	5.3	2.5
40°-50°	234.5	7.8	3.7
50°-60°	309.0	10.3	4.8
60°-70°	370.0	12.4	5.8
70°-80°	400.8	13.4	6.3
80°-90°	390.5	13.1	6.1
90°-100°	337.9	11.3	5.3
100°-110°	261.7	8.8	4.1
110°-120°	183.0	6.1	2.9
120°-130°	111.3	3.7	1.7
130°-140°	55.2	1.8	0.9
140°-150°	18.9	0.6	0.3
150°-160°	2.4	0.1	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	2019.4	67.5	31.6
0°-180°	2989.8	100.0	46.7

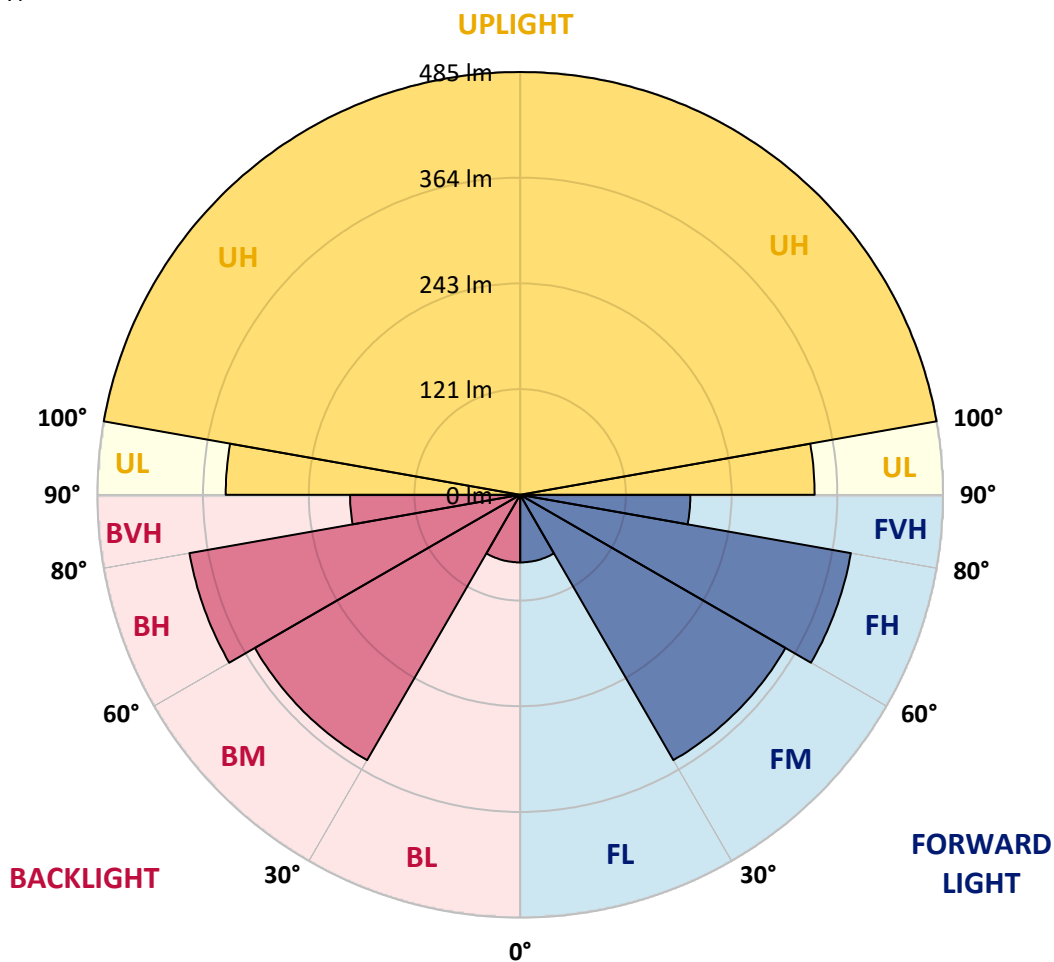


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	77.6	1.2			
FM (30°-60°)	351.5	5.5			
FH (60°-80°)	385.4	6.0			G0/660
FVH (80°-90°)	195.2	3.1			G2/225
BL (0°-30°)	77.6	1.2	B0/110		
BM (30°-60°)	351.5	5.5	B1/1000		
BH (60°-80°)	385.4	6.0	B1/500		G0/660
BVH (80°-90°)	195.2	3.1			G2/225
UL (90°-100°)	337.9	5.3		U3/500	
UH (100°-180°)	485.2	7.6		U3/500	
Trapped Light	3410.2	53.3			

BUG Rating: B1-U4-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	142	142	142	142	142	142	142	142	142	142	142
2.5°	142	142	142	143	143	143	143	143	142	142	142
5°	143	143	144	144	144	144	144	144	144	143	143
7.5°	145	145	145	145	145	145	145	145	145	145	145
10°	147	147	148	148	147	148	147	148	148	147	147
12.5°	154	153	153	151	151	150	151	151	153	153	154
15°	163	163	162	160	157	155	157	160	162	163	163
17.5°	174	173	172	170	167	165	167	170	172	173	174
20°	184	184	182	180	178	179	178	180	182	184	184
22.5°	194	194	192	190	191	193	191	190	192	194	194
25°	205	205	203	201	205	206	205	201	203	205	205
27.5°	215	215	214	214	219	220	219	214	214	215	215
30°	226	226	225	227	232	233	232	227	225	226	226
32.5°	237	238	236	241	245	247	245	241	236	238	237
35°	249	249	247	254	259	260	259	254	247	249	249
37.5°	261	261	259	267	272	273	272	267	259	261	261
40°	272	272	272	281	284	285	284	281	272	272	272
42.5°	283	283	286	293	296	297	296	293	286	283	283
45°	294	294	299	306	308	308	308	306	299	294	294
47.5°	306	305	312	318	319	319	319	318	312	305	306
50°	316	315	323	329	330	329	330	329	323	315	316
52.5°	326	326	335	341	339	338	339	341	335	326	326
55°	335	335	346	350	348	346	348	350	346	335	335
57.5°	345	344	354	359	356	350	356	359	354	344	345
60°	352	352	364	366	362	359	362	366	364	352	352
62.5°	358	360	373	375	368	365	368	375	373	360	358
65°	363	366	378	381	373	369	373	381	378	366	363
67.5°	368	371	383	385	377	371	377	385	383	371	368
70°	370	374	386	387	377	372	377	387	386	374	370
72.5°	371	375	388	387	378	372	378	387	388	375	371
75°	370	375	387	387	378	371	378	387	387	375	370
77.5°	367	373	385	385	375	368	375	385	385	373	367
80°	365	369	380	380	370	364	370	380	380	369	365
82.5°	358	363	374	374	364	358	364	374	374	363	358
85°	350	354	365	366	357	351	357	366	365	354	350
87.5°	341	344	354	356	348	343	348	356	354	344	341
90°	329	332	342	344	337	333	337	344	342	332	329
92.5°	317	318	327	330	325	321	325	330	327	318	317
95°	302	302	311	316	313	310	313	316	311	302	302
97.5°	286	286	294	300	299	297	299	300	294	286	286
100°	270	270	276	284	285	284	285	284	276	270	270
102.5°	253	253	259	268	270	270	270	268	259	253	253
105°	238	236	241	251	255	256	255	251	241	236	238
107.5°	222	221	224	234	240	241	240	234	224	221	222
110°	207	206	208	217	224	227	224	217	208	206	207



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	192	191	192	200	208	211	208	200	192	191	192
115°	179	178	177	184	191	194	191	184	177	178	179
117.5°	166	165	163	168	174	177	174	168	163	165	166
120°	153	152	148	152	157	159	157	152	148	152	153
122.5°	139	138	134	136	141	142	141	136	134	138	139
125°	126	125	120	120	125	127	125	120	120	125	126
127.5°	114	113	107	105	109	111	109	105	107	113	114
130°	101	100	95	91	94	96	94	91	95	100	101
132.5°	90	89	84	78	80	81	80	78	84	89	90
135°	78	78	73	66	66	66	66	66	73	78	78
137.5°	68	67	62	55	52	53	52	55	62	67	68
140°	57	57	52	45	40	40	40	45	52	57	57
142.5°	47	46	43	36	30	28	30	36	43	46	47
145°	37	37	34	28	21	19	21	28	34	37	37
147.5°	29	28	26	20	13	10	13	20	26	28	29
150°	21	20	18	13	8	4	8	13	18	20	21
152.5°	13	13	11	7	3	1	3	7	11	13	13
155°	7	7	5	3	1	0	1	3	5	7	7
157.5°	2	2	1	1	0	0	0	1	1	2	2
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)