

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 765589

Luminaire Tested: **GLX91SXXFTFG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765589
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLX91SXXFTFG
Description: 1000W HPS FORWARD THROW AREA
Light Source: 1000W HPS CL ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 97778.6 lumens
Efficiency: 69.8%
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2.25' x L: 2.25' x H: 1.2')
IES Classification: Type IV - Short - Cutoff
BUG Rating: B5 - U2 - G5

Input Watts (W): 1000
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



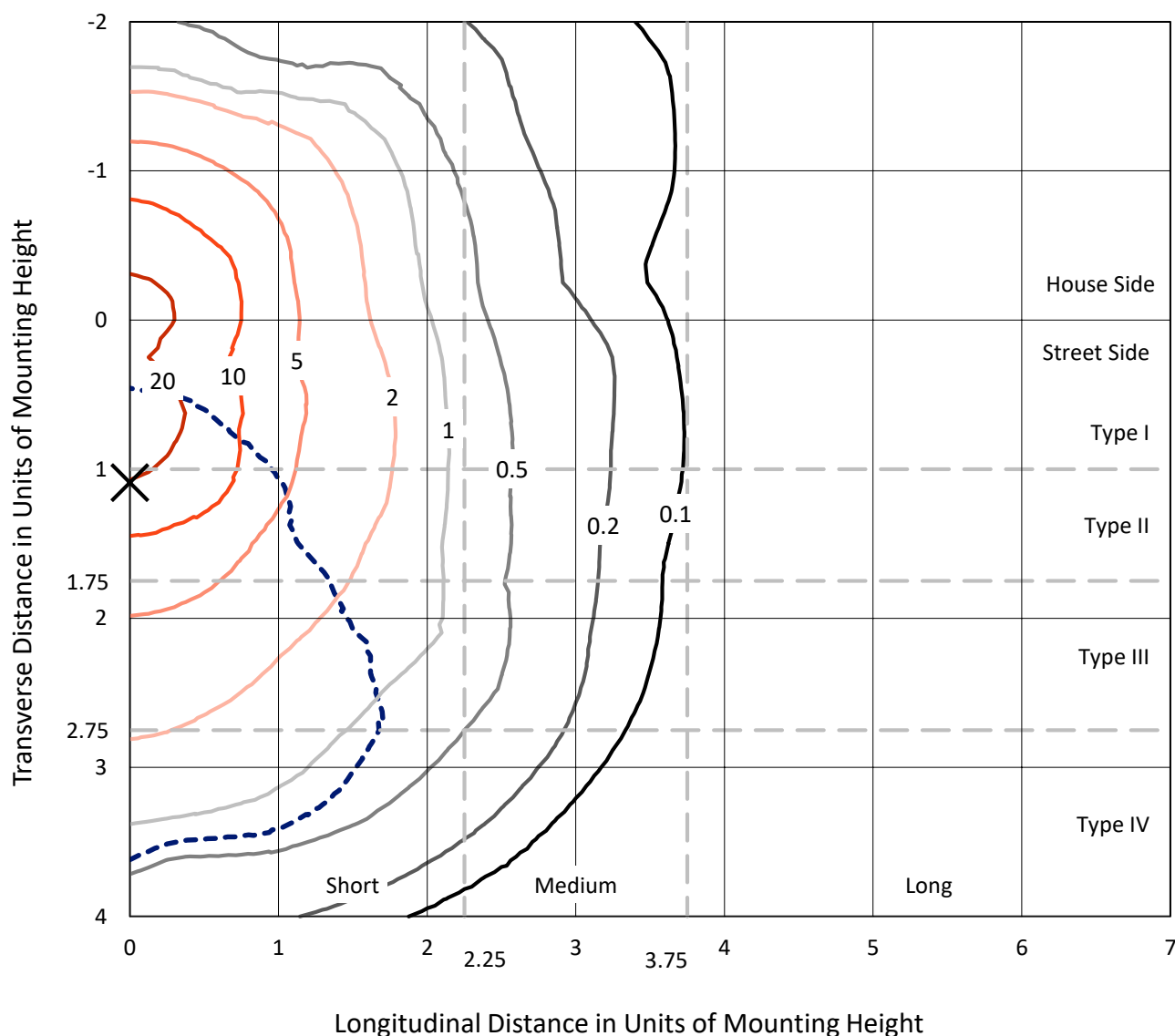
REPORT NUMBER: 765589

CATALOG NUMBER: GLX91SXXFTFG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

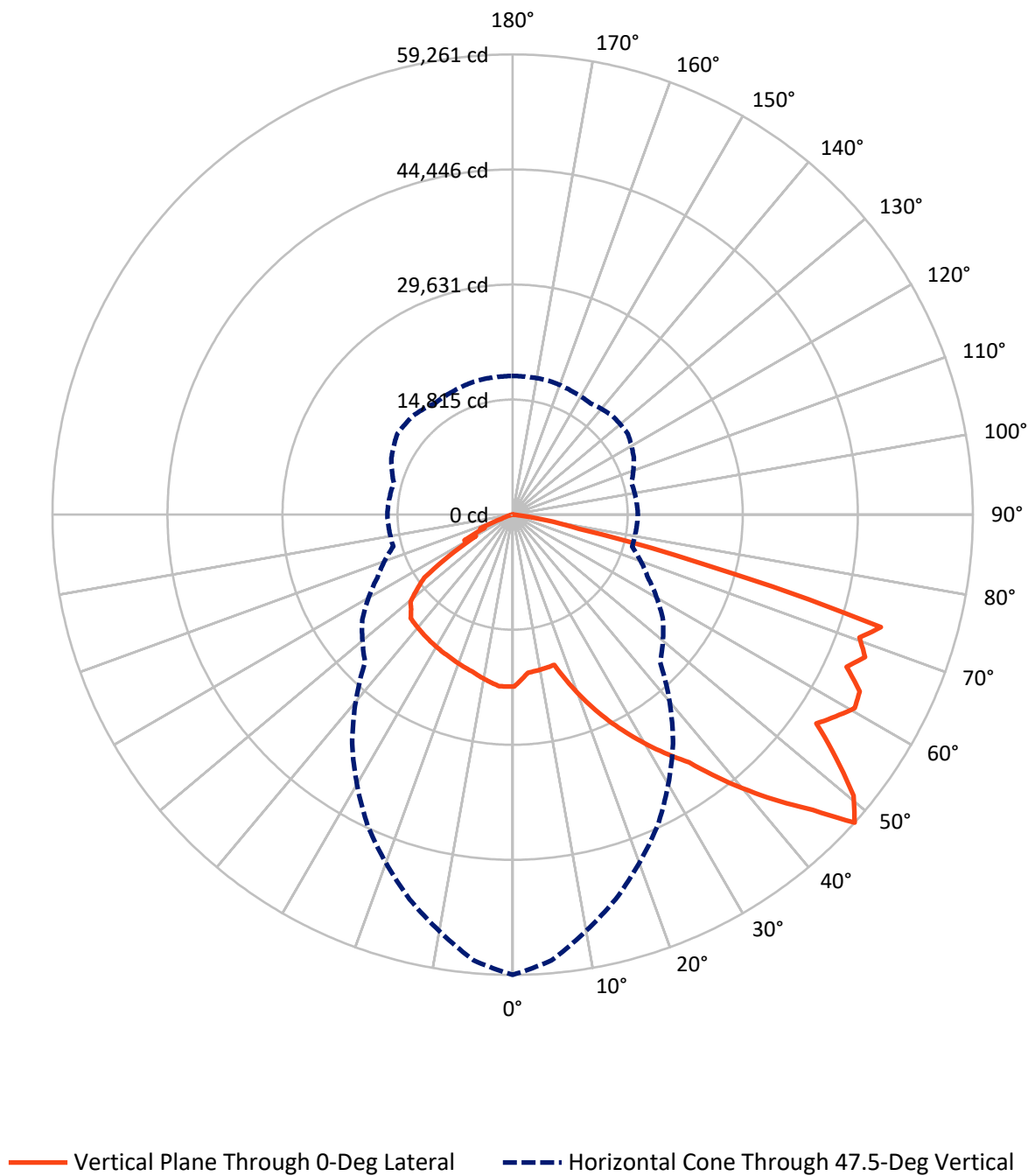


Based on 30 foot mounting height. Maximum calculated value = 24.8 fc
 Type IV - Short - Cutoff

REPORT NUMBER: 765589

CATALOG NUMBER: GLX91SXXFTFG

Luminous Intensity Polar Plot



REPORT NUMBER: 765589

CATALOG NUMBER: GLX91SXXFTFG

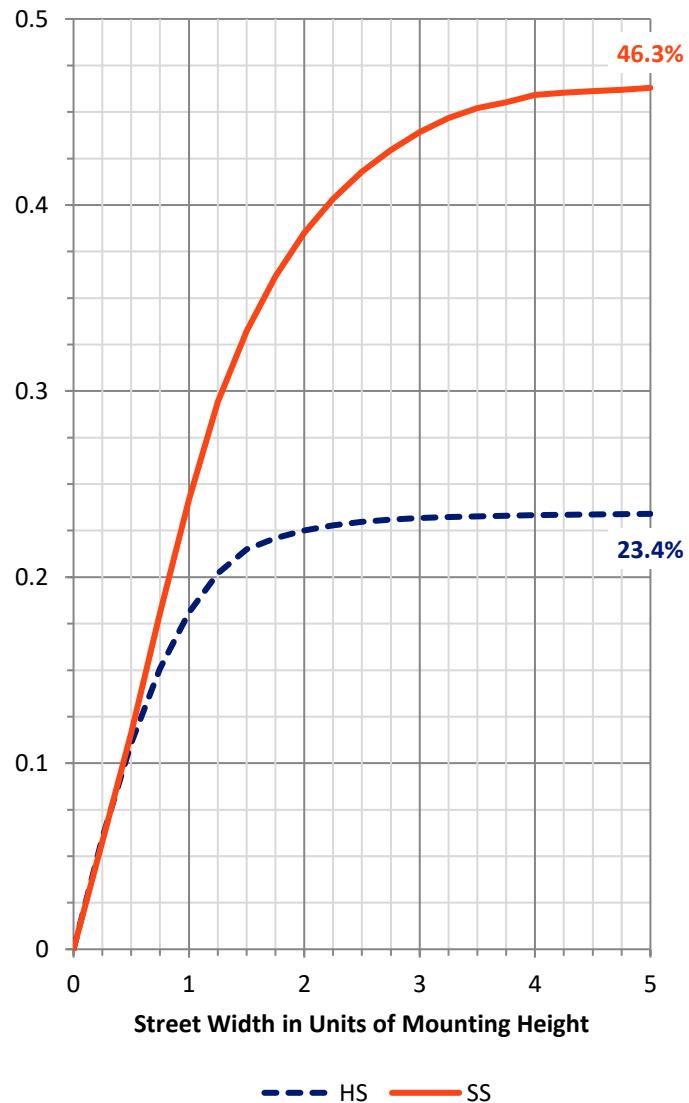
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32958.9	20.8	32979.6
	% Lamp	23.5	0.0	23.6
Street Side	Lumens	64768.5	30.4	64798.9
	% Lamp	46.3	0.0	46.3
Total	Lumens	97727.4	51.2	97778.6
	% Lamp	69.8	0.0	69.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2047.6	2.1	1.5
10°-20°	5889.0	6.0	4.2
20°-30°	9765.3	10.0	7.0
30°-40°	14189.2	14.5	10.1
40°-50°	18852.3	19.3	13.5
50°-60°	20053.2	20.5	14.3
60°-70°	17112.0	17.5	12.2
70°-80°	9434.0	9.6	6.7
80°-90°	516.8	0.5	0.4
90°-100°	28.5	0.0	0.0
100°-110°	14.0	0.0	0.0
110°-120°	7.9	0.0	0.0
120°-130°	2.6	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°	97727.4	99.9	69.8
0°-180°	97778.6	100.0	69.8

Coefficient of Utilization



REPORT NUMBER: 765589

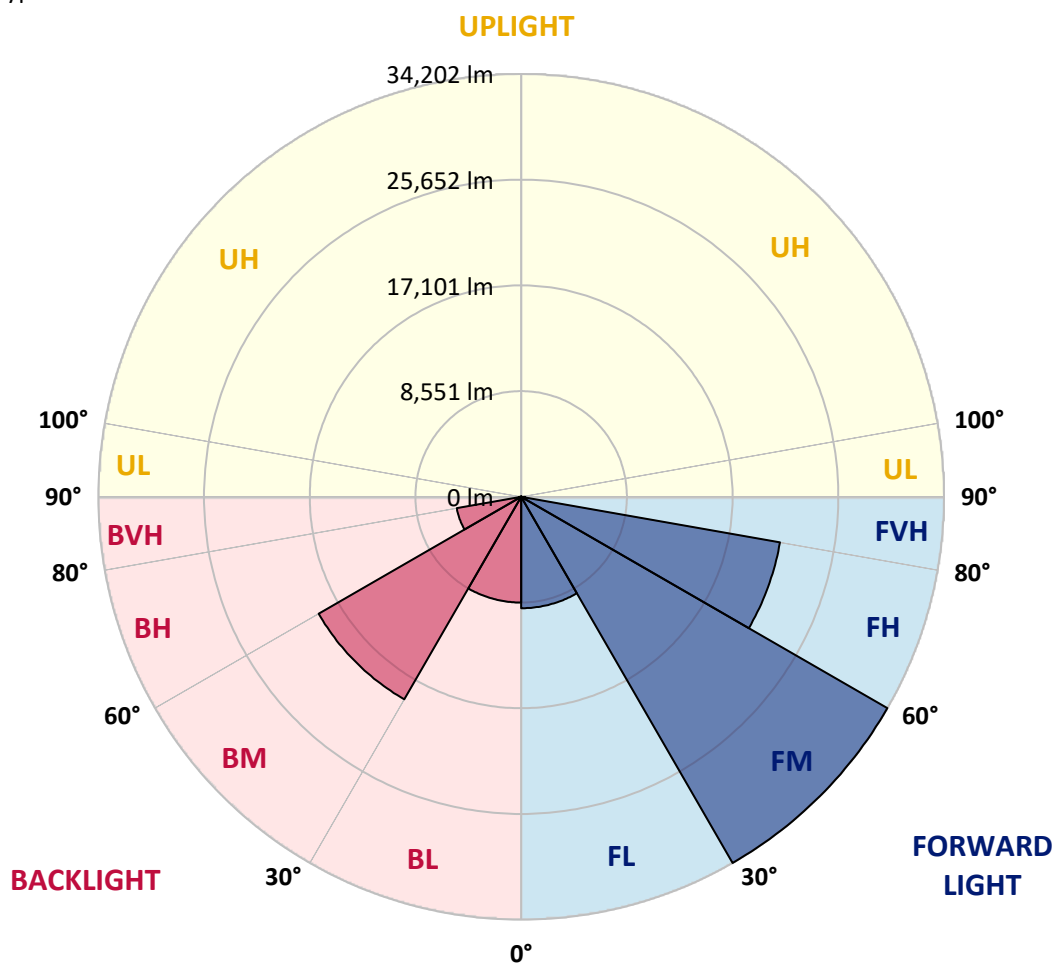
CATALOG NUMBER: GLX91SXXFTFG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9012.3	6.4			
FM	(30°-60°)	34202.2	24.4			
FH	(60°-80°)	21259.0	15.2			G5
FVH	(80°-90°)	321.4	0.2			G3/500
BL	(0°-30°)	8556.7	6.1	B5		
BM	(30°-60°)	18913.8	13.5	B5		
BH	(60°-80°)	5287.1	3.8	B5		G5
BVH	(80°-90°)	195.3	0.1			G2/225
UL	(90°-100°)	28.5	0.0		U2/50	
UH	(100°-180°)	20.8	0.0		U2/50	
Trapped Light		42221.4	30.2			

BUG Rating: B5-U2-G5

Type IV Short





REPORT NUMBER: 765589

CATALOG NUMBER: GLX91SXXFTFG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	22131	22131	22131	22131	22131	22131	22131	22131	22131	22131	22131
5°	20449	20433	20433	20433	20465	20702	21034	21523	21982	22298	22298
15°	20070	19975	19833	19848	20164	19975	19453	19343	19722	20686	20844
25°	29741	29615	27655	24558	22408	19580	17589	17968	17478	18489	19090
35°	39191	38843	38275	36773	31384	25506	20006	16640	16482	17288	17778
45°	54235	52876	48878	42636	34355	26912	23499	18537	15819	16277	16593
47.5°	59261	57617	51264	44169	36015	26865	23641	19232	15913	16056	16135
50°	56890	55673	51849	46998	36410	28066	22772	20006	16056	15155	15266
55°	47472	47251	45244	42446	36615	28003	22614	20465	16751	14254	13543
60°	50601	50427	45307	37342	29883	27244	23467	21065	16577	12943	11805
62.5°	50158	49257	44311	37927	30120	25537	23878	19754	15566	12389	11410
65°	47251	46097	42431	35588	30768	25032	22914	17620	13101	10746	9371
67.5°	48957	46050	41072	33660	29457	26881	20006	14570	10825	8707	7854
70°	47377	46050	39886	32443	29378	28018	17367	12200	9987	8360	7159
72.5°	49589	49099	43079	32759	28161	27165	14665	10809	8407	7775	6052
75°	24779	17604	24084	25348	22503	18126	10888	7080	6337	4915	4472
77.5°	8723	9166	7269	6448	7301	6400	5910	3888	2497	2924	2355
80°	4520	3034	3508	2323	2212	2402	1960	1391	1391	1312	1280
82.5°	885	1075	1011	790	774	759	759	743	664	743	648
85°	348	427	316	269	300	332	284	316	316	300	316
87.5°	126	95	79	95	126	95	126	126	158	142	174
90°	0	16	0	32	32	47	47	79	63	95	79
95°	0	0	0	0	16	16	32	47	63	63	63
105°	0	0	0	0	0	16	16	16	32	32	32
115°	0	0	0	0	0	16	16	32	32	32	32
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
180°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: 765589

CATALOG NUMBER: GLX91SXXFTFG

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	22131	22131	22131	22131	22131	22131	22131	22131	22131	22131
5°	22440	22329	22187	22156	22124	22092	22124	22140	22124	22156
15°	21113	21223	21160	20986	20765	20654	20765	20860	20860	20860
25°	19390	19564	19327	19390	19706	19880	19722	19675	19927	20006
35°	18173	18379	18869	18900	17905	17889	18205	18663	19216	19343
45°	16688	16419	17525	18142	18015	17478	17810	18331	18505	18711
47.5°	16056	15850	17225	18126	18063	17494	17652	17857	17841	17857
50°	15281	15013	16672	17604	17715	17336	17051	17194	17241	17288
55°	12990	13053	15266	16087	16309	15250	15250	14681	14475	13938
60°	11204	11805	12563	13717	13986	11141	4836	5025	5452	5468
62.5°	10256	10161	11410	12152	12152	6052	4788	5626	6811	7048
65°	8455	9166	10335	11141	9150	4899	4267	4235	3903	4014
67.5°	7159	7601	7601	8012	7506	4962	3003	3508	4409	4520
70°	5721	5499	6226	6448	6479	5010	2276	1643	1612	1517
72.5°	4693	5420	4251	5800	5326	3998	1675	1169	980	1011
75°	3761	5578	7095	6005	4014	2734	1106	695	632	537
77.5°	2307	3761	5025	5168	2908	1375	601	411	269	253
80°	1027	1454	1707	1912	1738	853	395	269	205	190
82.5°	569	616	948	980	790	521	253	158	111	126
85°	300	284	363	458	332	253	111	63	63	63
87.5°	158	111	126	158	126	63	16	0	0	0
90°	95	63	63	63	32	16	0	0	0	0
95°	63	47	32	32	16	0	0	0	0	0
105°	32	16	0	0	0	0	0	0	0	0
115°	32	32	16	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
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)