

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: 765682

Luminaire Tested: **GLX91SXX2DFG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 765682
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLX91SXX2DFG
Description: 1000W HPS TYPE II AREA
Light Source: 1000W HPS CL ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 106865.3 lumens
Efficiency: 76.3%
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2.25' x L: 2.25' x H: 1.2')
IES Classification: Type III - Short - Cutoff
BUG Rating: B5 - U3 - 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

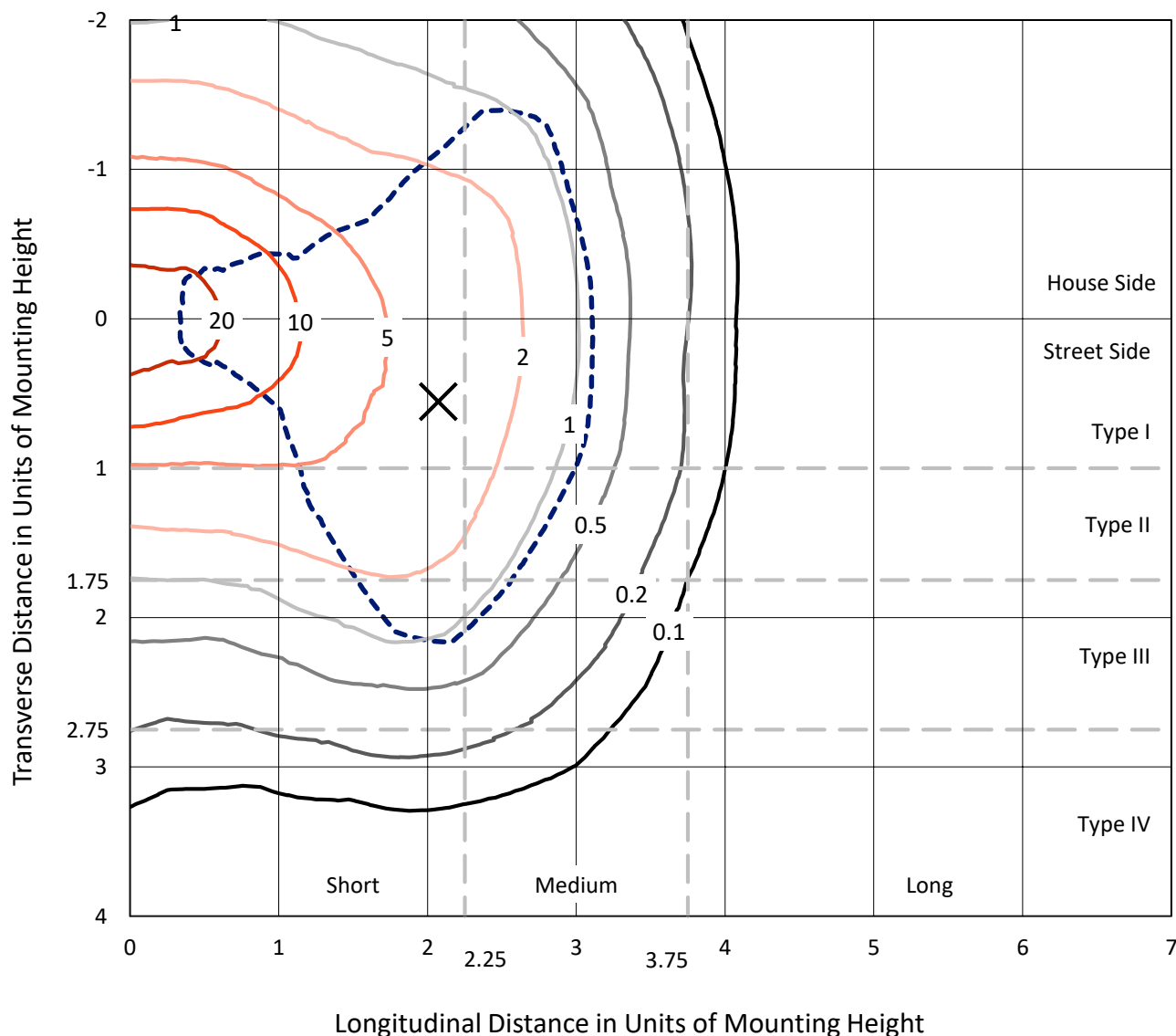


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

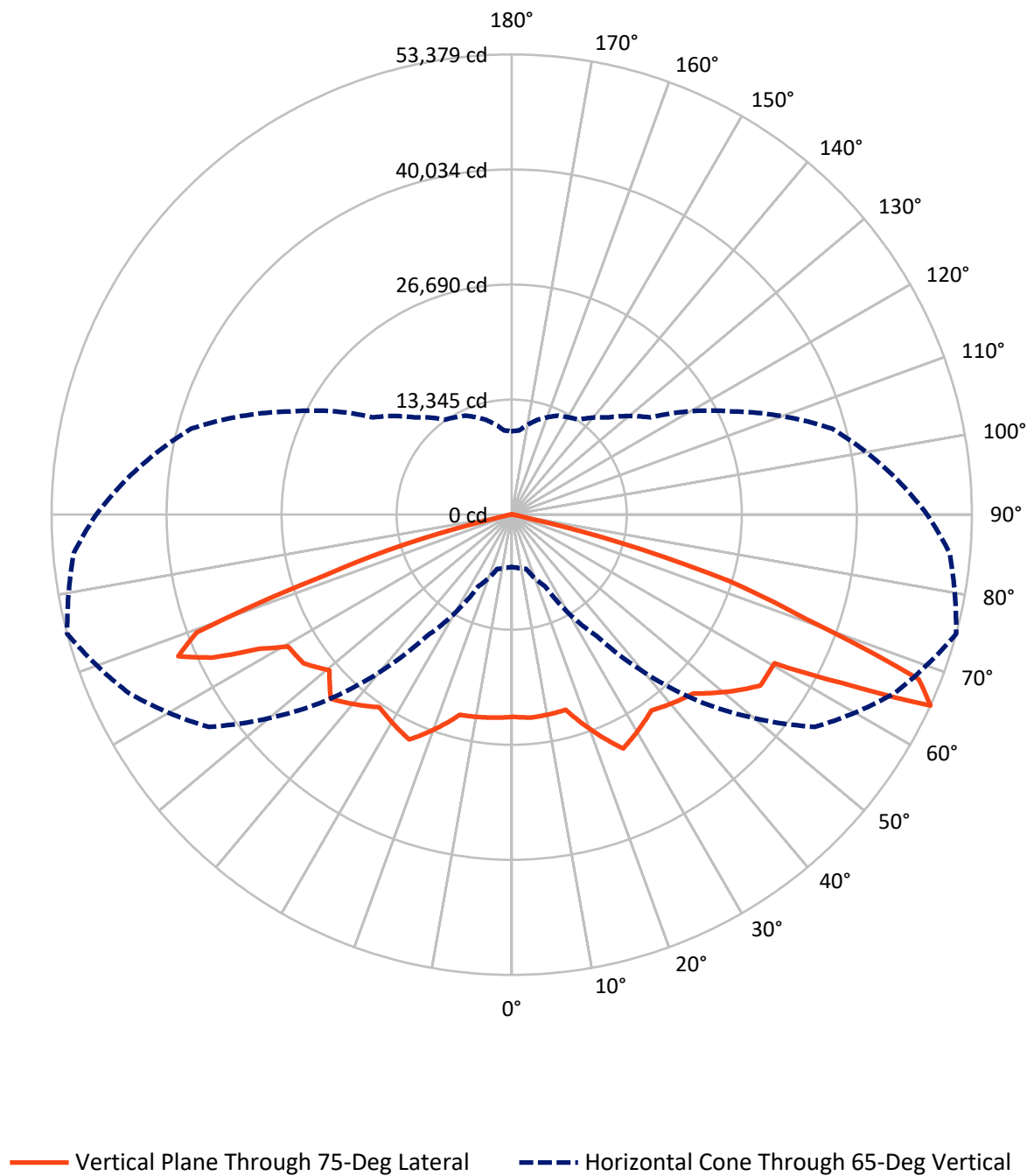


Based on 30 foot mounting height. Maximum calculated value = 26.1 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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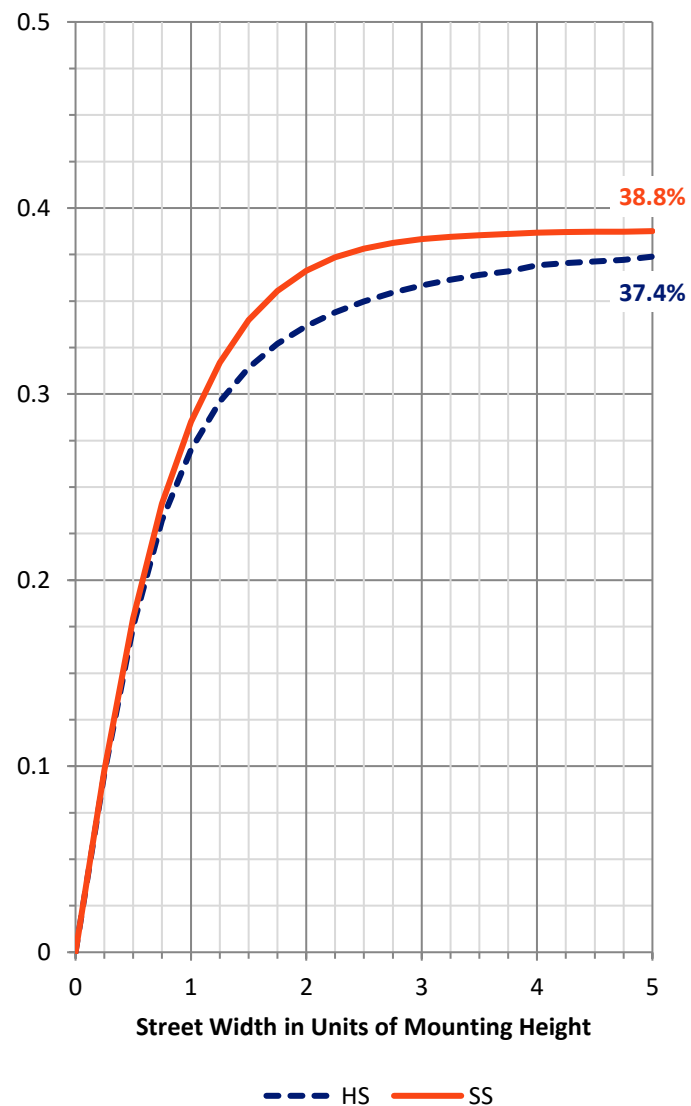
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	52523.3	32.3	52555.6
	% Lamp	37.5	0.0	37.5
Street Side	Lumens	54195.4	114.3	54309.6
	% Lamp	38.7	0.1	38.8
Total	Lumens	106718.7	146.6	106865.3
	% Lamp	76.2	0.1	76.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	2239.5	2.1	1.6
10°-20°	6694.6	6.3	4.8
20°-30°	11021.6	10.3	7.9
30°-40°	14419.1	13.5	10.3
40°-50°	16682.8	15.6	11.9
50°-60°	19057.4	17.8	13.6
60°-70°	24116.1	22.6	17.2
70°-80°	11915.7	11.2	8.5
80°-90°	537.4	0.5	0.4
90°-100°	39.3	0.0	0.0
100°-110°	45.5	0.0	0.0
110°-120°	44.2	0.0	0.0
120°-130°	15.9	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°	106718.7	99.9	76.2
0°-180°	106865.3	100.0	76.3

Coefficient of Utilization



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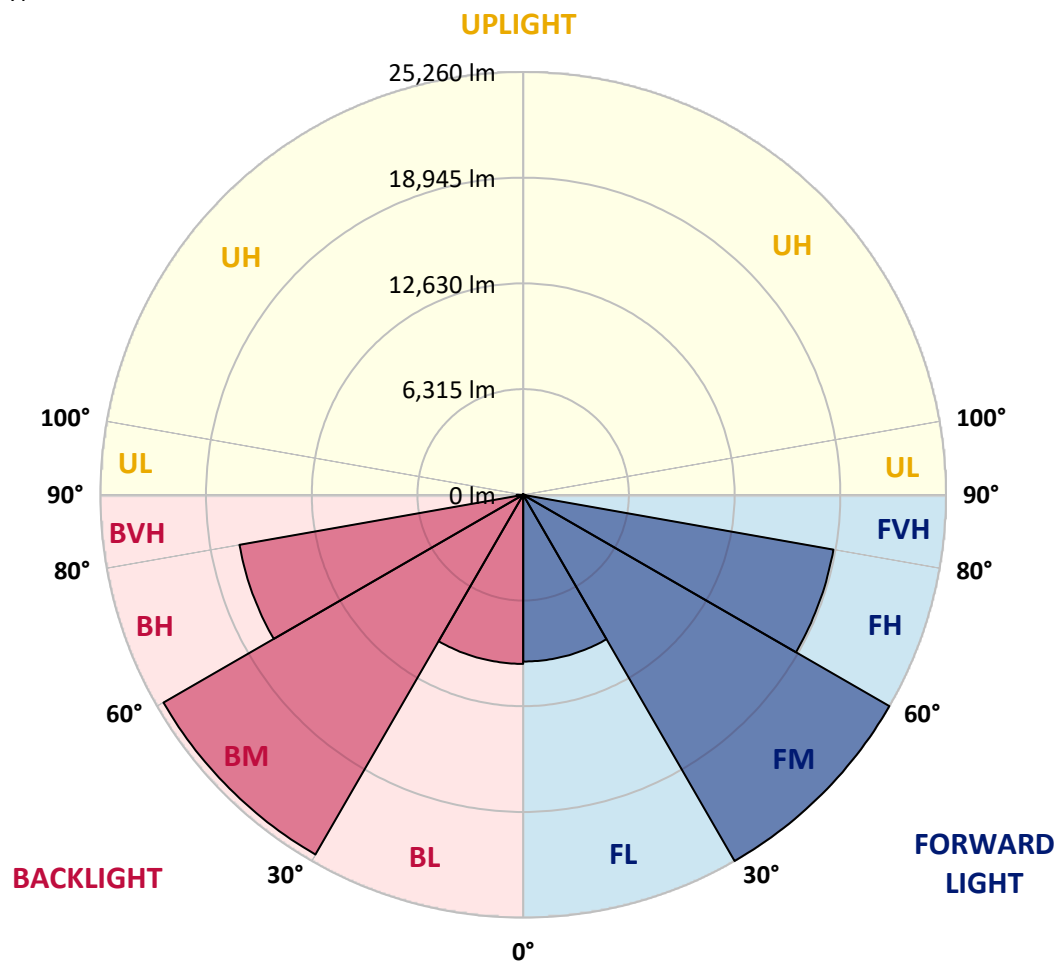
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9959.8	7.1			
FM	(30°-60°)	25260.4	18.0			
FH	(60°-80°)	18819.9	13.4			G5
FVH	(80°-90°)	143.9	0.1			G2/225
BL	(0°-30°)	10099.2	7.2	B5		
BM	(30°-60°)	24813.6	17.7	B5		
BH	(60°-80°)	17211.9	12.3	B5		G5
BVH	(80°-90°)	393.5	0.3			G3/500
UL	(90°-100°)	39.3	0.0		U2/50	
UH	(100°-180°)	32.3	0.0		U2/50	
Trapped Light		33134.7	23.7			

BUG Rating: B5-U3-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	23449	23449	23449	23449	23449	23449	23449	23449	23449	23449	23449
5°	23391	23300	23468	23605	23651	23666	23682	22216	23636	23682	23697
15°	22262	22185	22536	22857	23040	23056	23101	23269	23483	23620	23605
25°	21620	21284	20628	20582	20826	22338	25346	28568	30049	30384	30293
35°	17437	17330	17345	17880	18857	20994	24521	26735	27896	28858	28827
45°	11879	11955	12826	14047	16536	20552	24506	27545	29575	31178	31194
50°	10047	10230	11421	13421	16826	21620	24689	28690	32308	32247	31514
55°	8825	9100	10184	12215	16857	22674	28629	35133	34996	33560	32965
60°	7207	7451	8230	10764	16902	27254	32110	33331	35011	35820	35133
62.5°	6688	6856	7222	9940	17024	28461	36003	40355	42966	41027	41973
65°	6077	6169	6520	9161	17192	30537	42920	48997	53379	50997	48203
67.5°	5558	5252	5802	9192	17147	32889	48035	52417	50936	48066	48081
70°	4581	4000	4932	8123	16398	34950	40996	37026	36110	38599	36828
72.5°	3756	3237	3588	5985	12551	23514	23666	25010	26445	24720	24582
75°	2901	2138	2519	3878	7787	11711	13329	12612	12841	9925	10871
77.5°	1588	1313	1191	1634	2794	5405	4932	2382	2107	3359	2031
80°	1038	687	534	550	840	1008	947	886	809	870	901
82.5°	305	305	260	260	321	397	382	443	428	428	428
85°	122	168	122	137	153	183	229	214	214	198	183
87.5°	92	92	61	76	107	122	137	92	107	107	107
90°	92	61	46	46	46	46	46	46	15	15	15
95°	61	183	46	31	31	15	31	15	0	0	0
105°	275	137	168	61	61	46	31	15	0	0	0
115°	366	275	137	168	183	122	107	61	31	15	15
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23449	23449	23449	23449	23449	23449	23449	23449	23449	23449
5°	23682	23605	23636	23498	23498	23498	23605	23758	23941	23911
15°	23880	23972	23834	23498	23208	23010	22842	22933	23178	23239
25°	30110	28659	27697	26644	24873	22094	21086	20490	20093	20032
35°	28491	27102	26338	26033	24857	23132	20979	18506	17330	17376
45°	30995	29942	27178	22674	20032	18490	16078	15040	14902	15299
50°	30537	27789	24476	21804	18857	17620	16063	14749	13452	13223
55°	31927	29667	25499	19941	17513	15650	14612	14291	13482	13497
60°	34309	30110	24934	18735	15696	13986	12963	12139	10902	10780
62.5°	37866	33118	26048	18918	15650	13452	12703	11589	10001	9833
65°	45027	38492	28308	19651	15940	13436	12658	11360	9787	9680
67.5°	47119	42019	29621	20277	16337	14123	13421	11772	10810	10322
70°	37133	39027	32095	21376	17498	14765	13620	12551	12368	12306
72.5°	24445	22689	25102	20384	17910	14291	13299	13177	12459	12154
75°	11635	12826	13940	12902	14093	13894	12230	12780	11665	11299
77.5°	2199	2321	2977	6550	7405	8550	9039	10199	9436	9802
80°	748	794	794	947	1084	2748	4794	7726	8062	8398
82.5°	443	397	489	412	489	626	886	1710	2657	1832
85°	198	198	214	183	260	260	336	473	473	580
87.5°	107	92	76	107	107	153	183	244	275	275
90°	15	31	31	31	76	76	107	122	137	122
95°	0	0	0	15	15	31	46	46	31	31
105°	0	0	0	15	15	15	15	15	31	31
115°	15	0	15	15	15	15	15	31	31	31
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)