

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: 766642

Luminaire Tested: **OVF25SXX3D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766642
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF25SXX3D
Description: 250 WATT HPS TYPE III ROADWAY
Light Source: 250W HPS CL E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 21344.5 lumens
Efficiency: 77.6%
Efficacy: 85.4 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

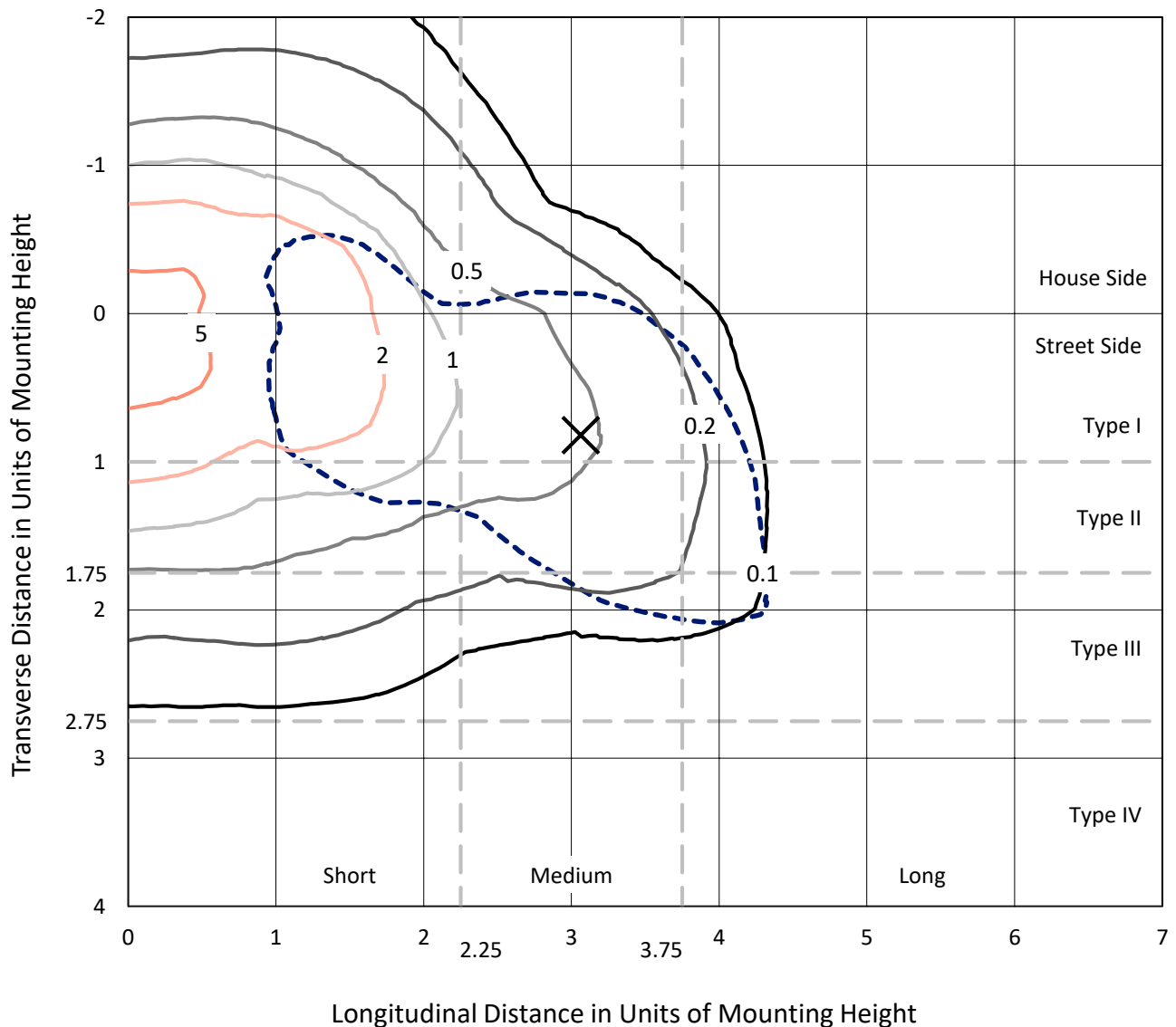
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

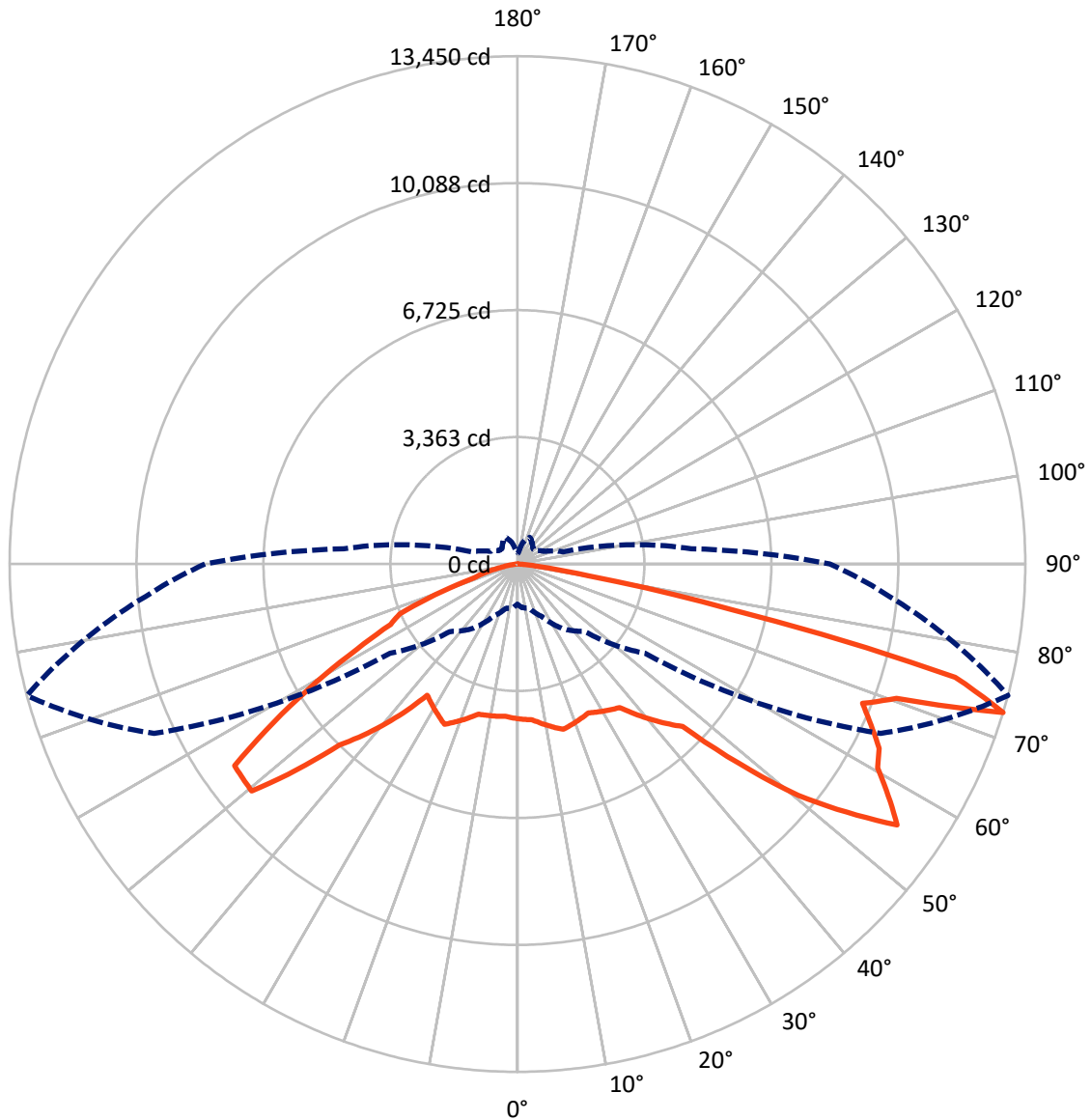
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - Full 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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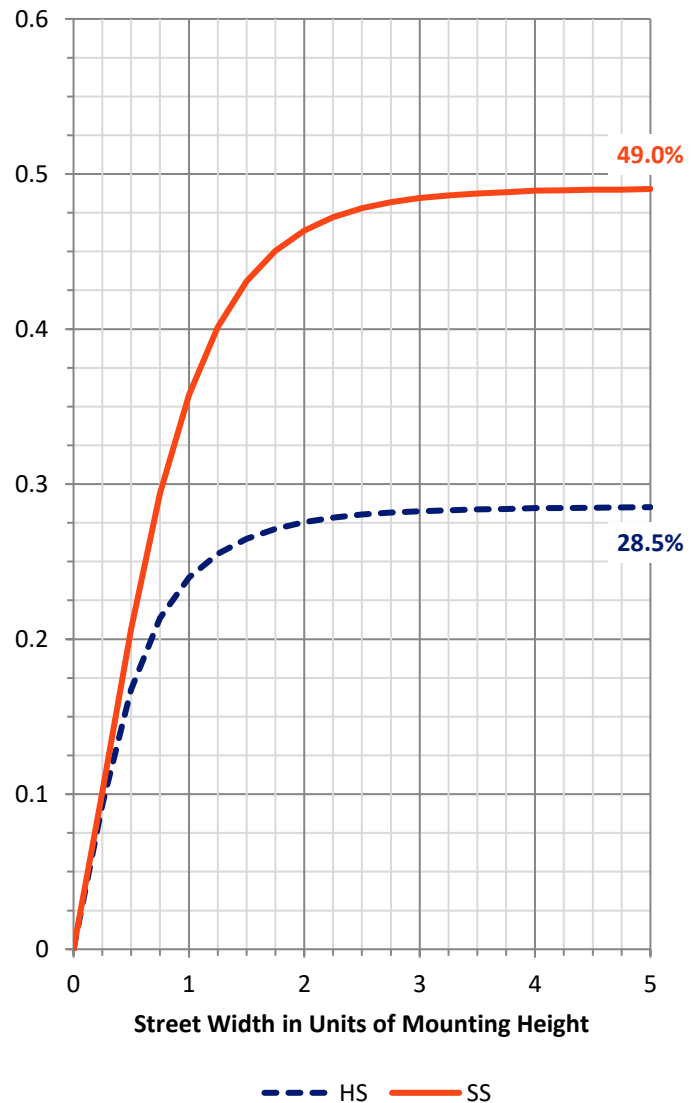
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7884.6	0.0	7884.6
	% Lamp	28.7	0.0	28.7
Street Side	Lumens	13459.9	0.0	13459.9
	% Lamp	48.9	0.0	48.9
Total	Lumens	21344.5	0.0	21344.5
	% Lamp	77.6	0.0	77.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	400.1	1.9	1.5
10°-20°	1248.7	5.9	4.5
20°-30°	2079.1	9.7	7.6
30°-40°	2804.3	13.1	10.2
40°-50°	3752.3	17.6	13.6
50°-60°	4694.1	22.0	17.1
60°-70°	3943.5	18.5	14.3
70°-80°	2399.6	11.2	8.7
80°-90°	133.1	0.6	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	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°	21344.5	100.0	77.6
0°-180°	21344.5	100.0	77.6

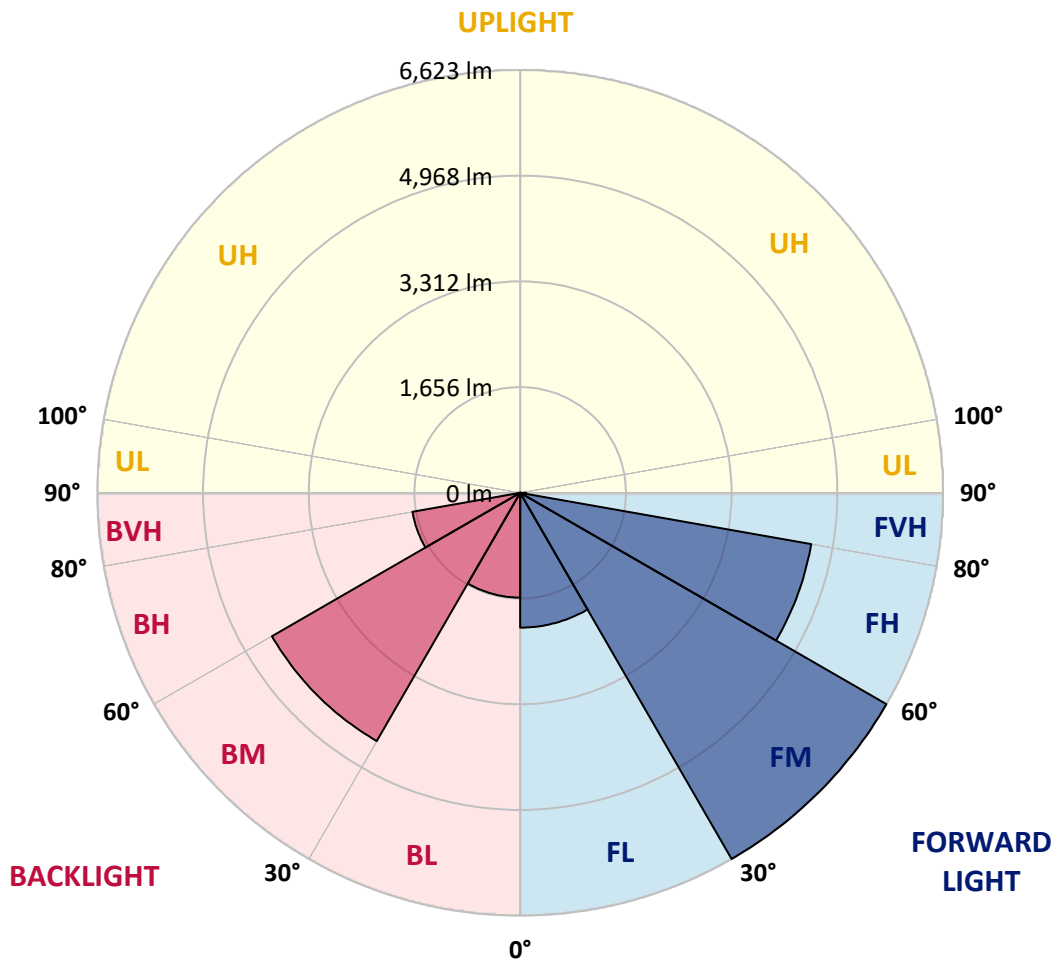


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2111.3	7.7			
FM	(30°-60°)	6623.4	24.1			
FH	(60°-80°)	4629.6	16.8			G2/5000
FVH	(80°-90°)	95.0	0.3			G1/100
BL	(0°-30°)	1641.0	6.0	B3/2500		
BM	(30°-60°)	4490.2	16.3	B3/5000		
BH	(60°-80°)	1713.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	38.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		6155.5	22.4			

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100
5°	4346	4379	4350	4374	4295	4257	4172	4158	4146	4112	4102
15°	5720	5521	5583	5462	5332	5088	4906	4725	4545	4379	4304
25°	5905	5873	5782	5639	5557	5404	5245	4823	4367	4234	4268
35°	4989	4890	4949	5124	5495	5674	5591	5179	4668	4242	4155
45°	4611	4525	4475	4584	4875	5105	5339	5719	6139	6150	6403
50°	4259	4226	4256	4419	4343	4782	6237	8168	9638	8309	8088
55°	3687	3537	3683	3912	3911	5241	8254	11277	12201	9771	9378
60°	2440	2431	2822	3374	3684	4803	7816	10968	10959	9517	8941
62.5°	2194	2024	2401	3022	3515	4588	7501	10847	10753	9205	8021
65°	1825	1730	2082	2710	3209	4122	6957	10119	10291	8440	6998
67.5°	1591	1509	1799	2399	2939	3602	5496	8678	9856	8382	7102
70°	1348	1398	1514	2000	2648	3144	4620	8516	10650	9116	8355
72.5°	1060	1148	1218	1536	2089	2526	4122	10616	13450	9894	8272
75°	852	794	739	902	1149	1386	3615	11400	11978	7439	5319
77.5°	393	377	284	331	396	488	2535	7932	5772	2824	2783
80°	95	98	103	101	150	234	784	2600	1890	843	946
82.5°	43	45	48	51	78	114	196	628	553	299	361
85°	17	20	20	26	27	40	68	188	196	127	150
87.5°	0	3	4	3	0	1	16	39	42	36	30
90°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
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°	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100
5°	4087	4048	4041	4025	4011	4002	4008	4012	4005	4016
15°	4269	4107	3953	3843	3761	3725	3664	3605	3592	3572
25°	4377	4662	4646	4431	4143	3653	3358	3212	3105	3130
35°	4122	4214	4292	4099	3796	3702	3061	2694	2495	2518
45°	6563	6723	5577	4217	3222	2698	2499	2011	1849	1761
50°	9368	9254	6355	4497	2941	2449	2077	1693	1503	1426
55°	10376	9201	5293	3569	2551	2134	1732	1411	1227	1158
60°	8252	6208	3634	2792	2242	1828	1457	1152	998	985
62.5°	6855	4809	3322	2581	2108	1715	1350	1055	847	826
65°	5482	3722	2843	2321	1956	1605	1278	966	690	664
67.5°	5363	3388	2662	2259	1883	1527	1278	907	524	474
70°	5368	2333	1948	1691	1711	1425	1275	862	336	309
72.5°	4621	1250	793	611	576	677	780	606	296	283
75°	2997	947	689	553	403	357	409	349	245	263
77.5°	1380	605	524	472	284	227	208	195	179	176
80°	576	371	305	277	165	130	103	94	95	95
82.5°	247	173	141	128	81	68	59	45	46	46
85°	88	51	45	46	30	29	25	17	23	17
87.5°	4	4	1	3	3	3	6	1	4	0
90°	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	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
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)