

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: 763053

Luminaire Tested: **EGL91SXX44**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 763053  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: EGL91SXX44  
Description: 1000W HPS 4H X 4V FLOOD  
Light Source: 1000W HPS CL E-25  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 140000 (1 lamp)  
Luminaire Lumens: 92538.8 lumens  
Efficiency: 66.1%  
Efficacy: 92.5 lumens/watt  
Luminous Opening: (L: 0 ' x W: -1.83 ' x H: 1.75 '  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

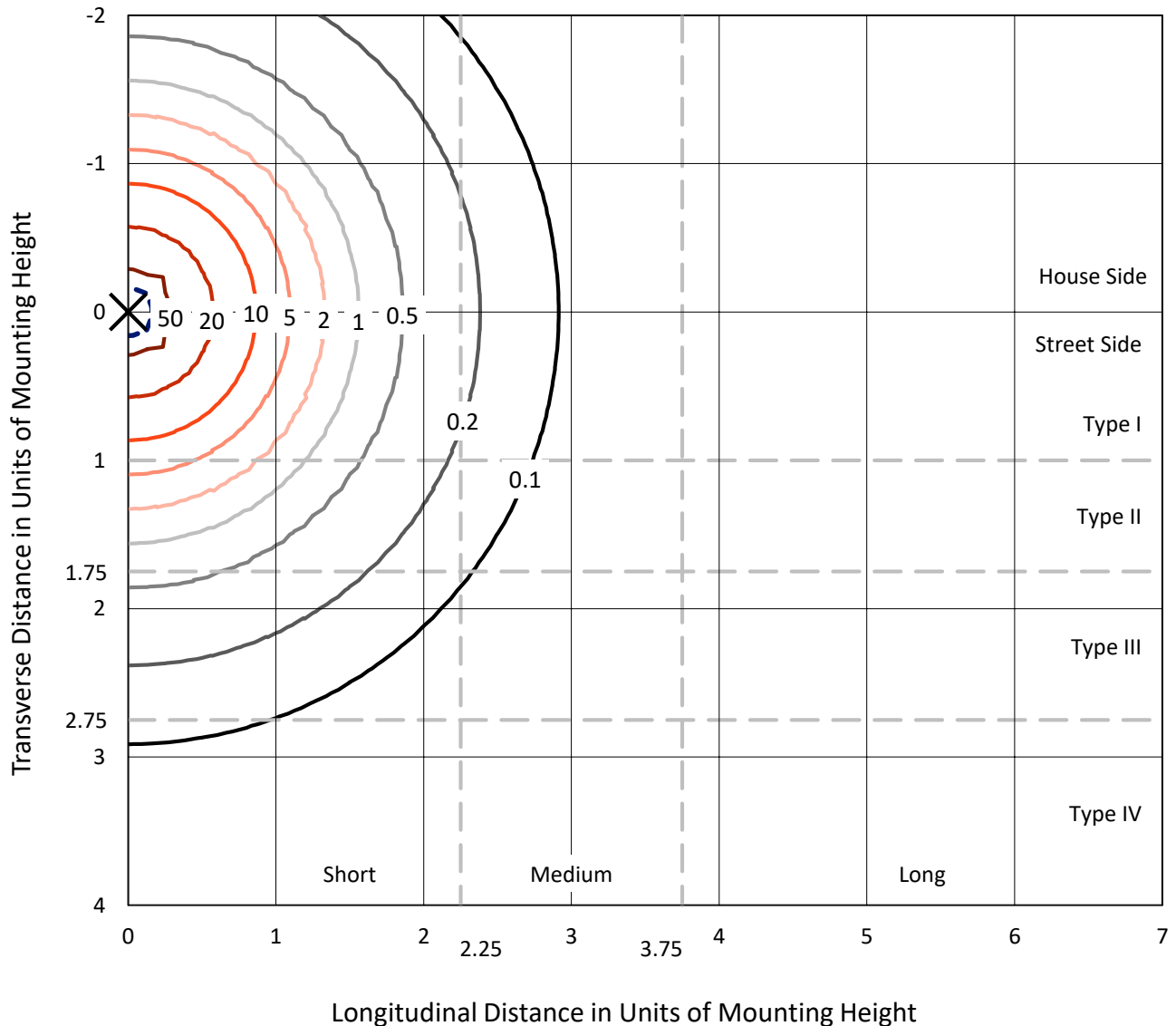
Input Watts (W): 1000  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

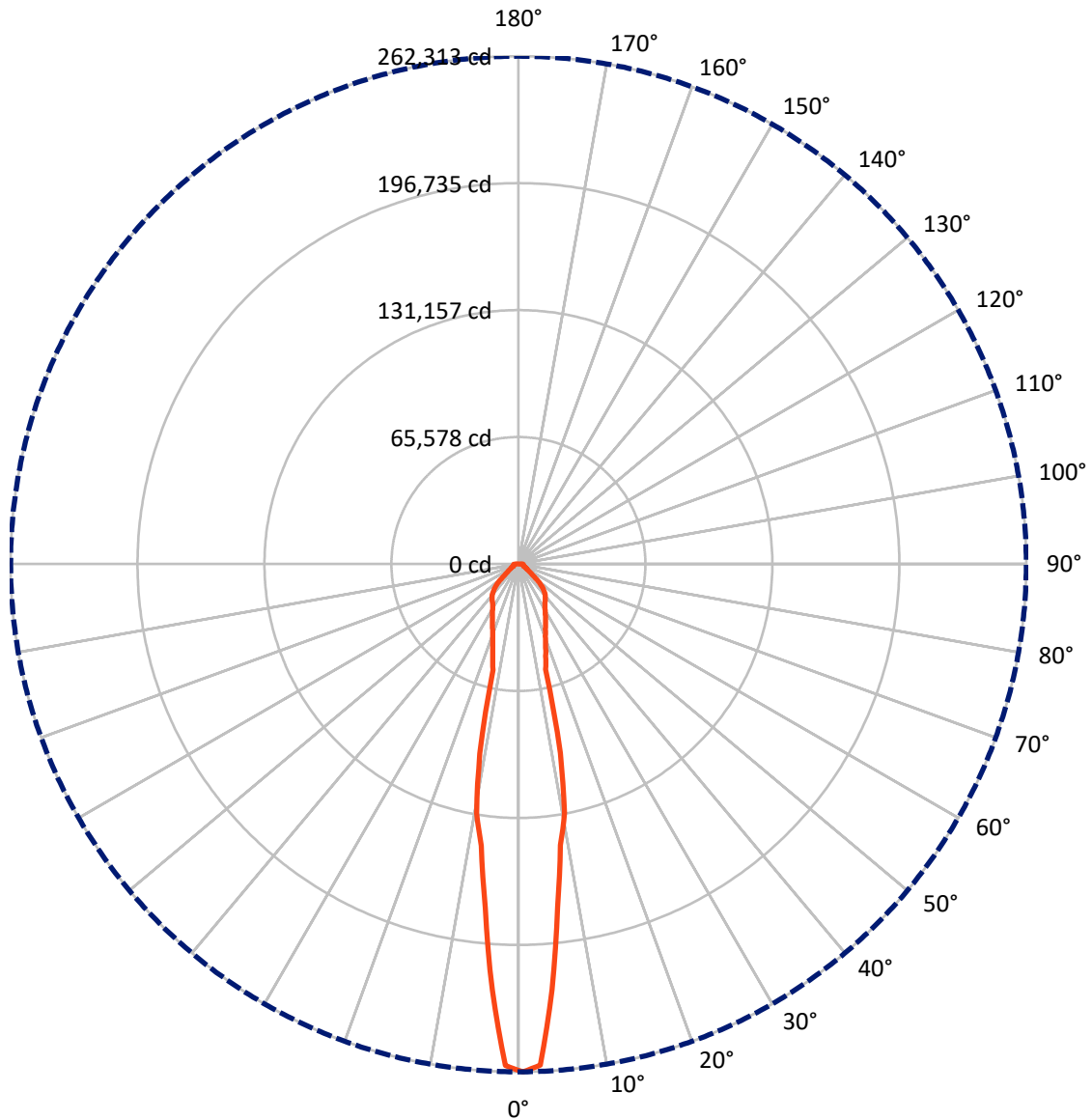
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 291.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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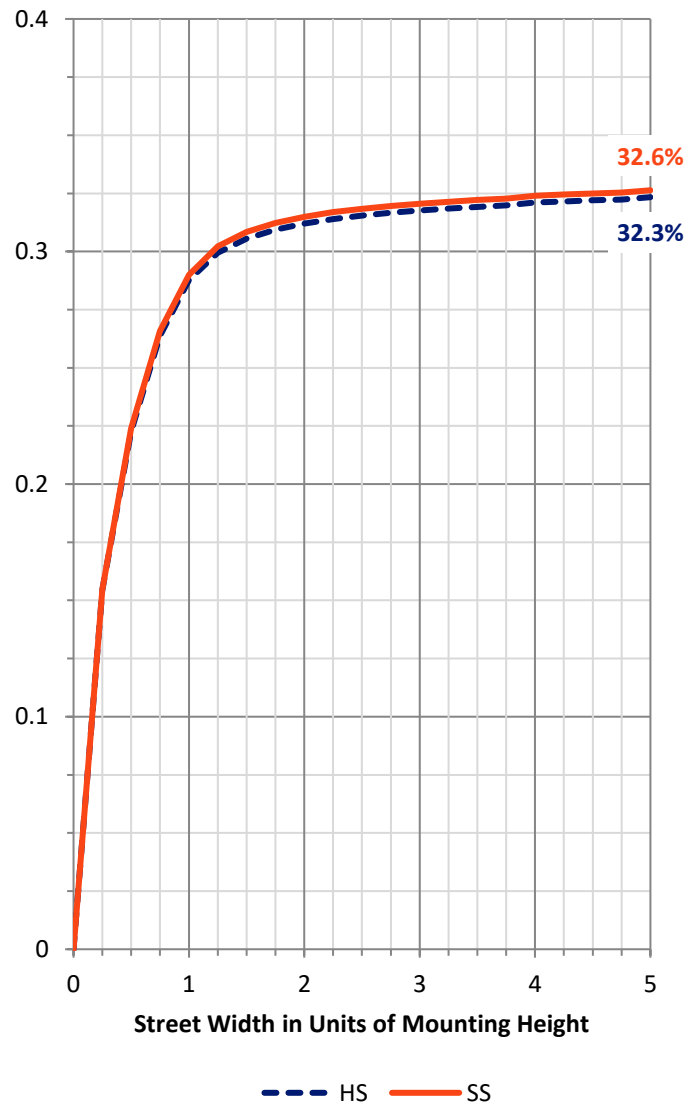
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	46269.4	0.0	46269.4
	% Lamp	33.0	0.0	33.0
<b>Street Side</b>	Lumens	46269.4	0.0	46269.4
	% Lamp	33.0	0.0	33.0
<b>Total</b>	Lumens	92538.8	0.0	92538.8
	% Lamp	66.1	0.0	66.1

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	16669.9	18.0	11.9
10°-20°	17683.3	19.1	12.6
20°-30°	14993.4	16.2	10.7
30°-40°	14935.4	16.1	10.7
40°-50°	13166.5	14.2	9.4
50°-60°	6362.2	6.9	4.5
60°-70°	3556.1	3.8	2.5
70°-80°	2718.9	2.9	1.9
80°-90°	2453.1	2.7	1.8
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°	92538.8	100.0	66.1
0°-180°	92538.8	100.0	66.1

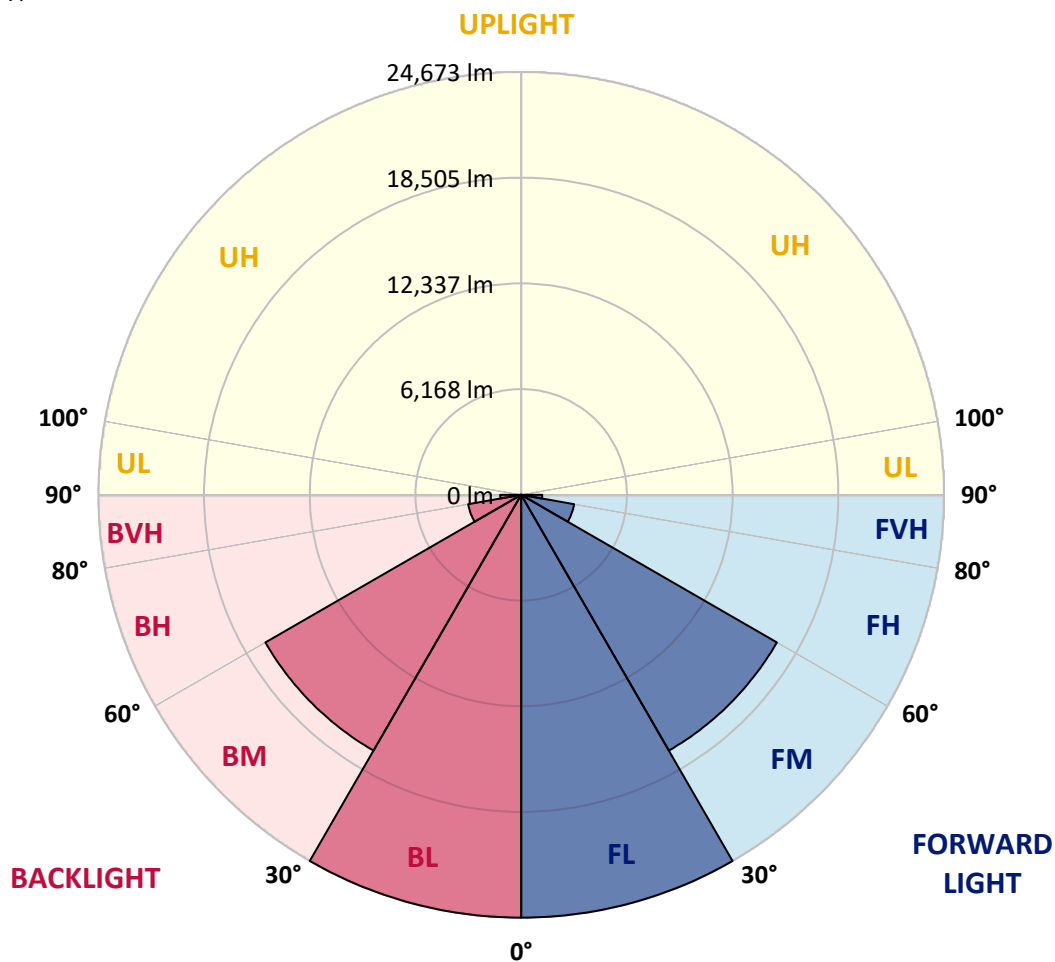


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	24673.3	17.6			
FM (30°-60°)	17232.0	12.3			
FH (60°-80°)	3137.5	2.2			G2/5000
FVH (80°-90°)	1226.5	0.9			G5
BL (0°-30°)	24673.3	17.6	B5		
BM (30°-60°)	17232.0	12.3	B5		
BH (60°-80°)	3137.5	2.2	B4/5000		G2/5000
BVH (80°-90°)	1226.5	0.9			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	47461.2	33.9			

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	262313
2°	259120
4°	220578
6°	178380
8°	146804
10°	130705
12°	99920
14°	56230
16°	49583
18°	44185
20°	39753
22°	36385
24°	33622
26°	31252
28°	29148
30°	27066
32°	25344
34°	24175
36°	23282
38°	22379
40°	21380
42°	20084
44°	18458
46°	16609
48°	14154
50°	11402
52°	8905
54°	7205
56°	6195
58°	5388
60°	4739
62°	4123
64°	3847
66°	3390
68°	2922
70°	2657
72°	2603
74°	2572
76°	2561
78°	2529
80°	2518
82°	2508
84°	2508
86°	2476
88°	2497



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0}$

(END OF REPORT)