

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: 763568

Luminaire Tested: **EGL91SXX55**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 763568
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: EGL91SXX55
Description: 1000W HPS 5H X 5V FLOOD
Light Source: 1000W HPS CL E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 109734.5 lumens
Efficiency: 78.4%
Efficacy: 109.7 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 - G1

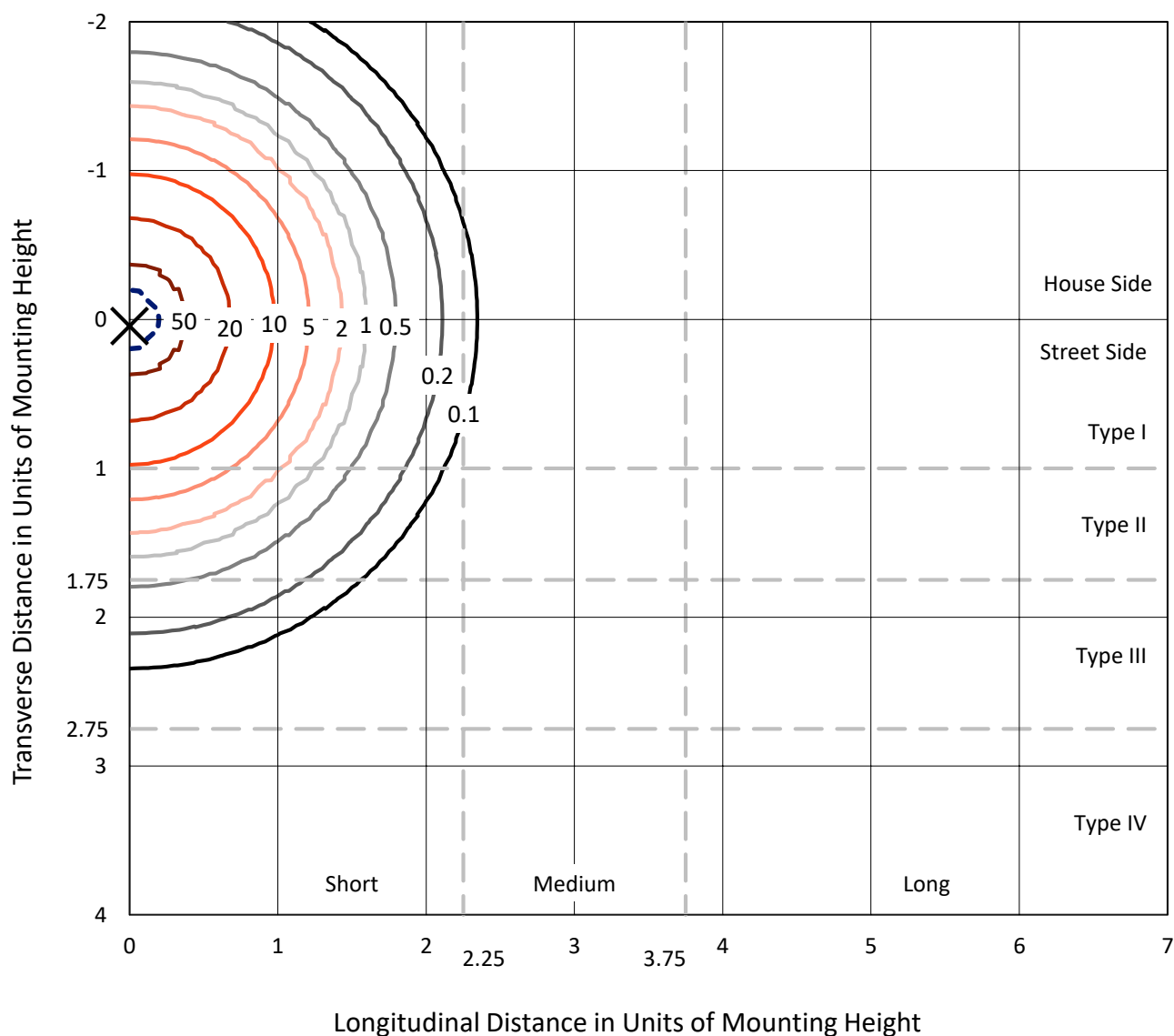
Input Watts (W): 1000
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

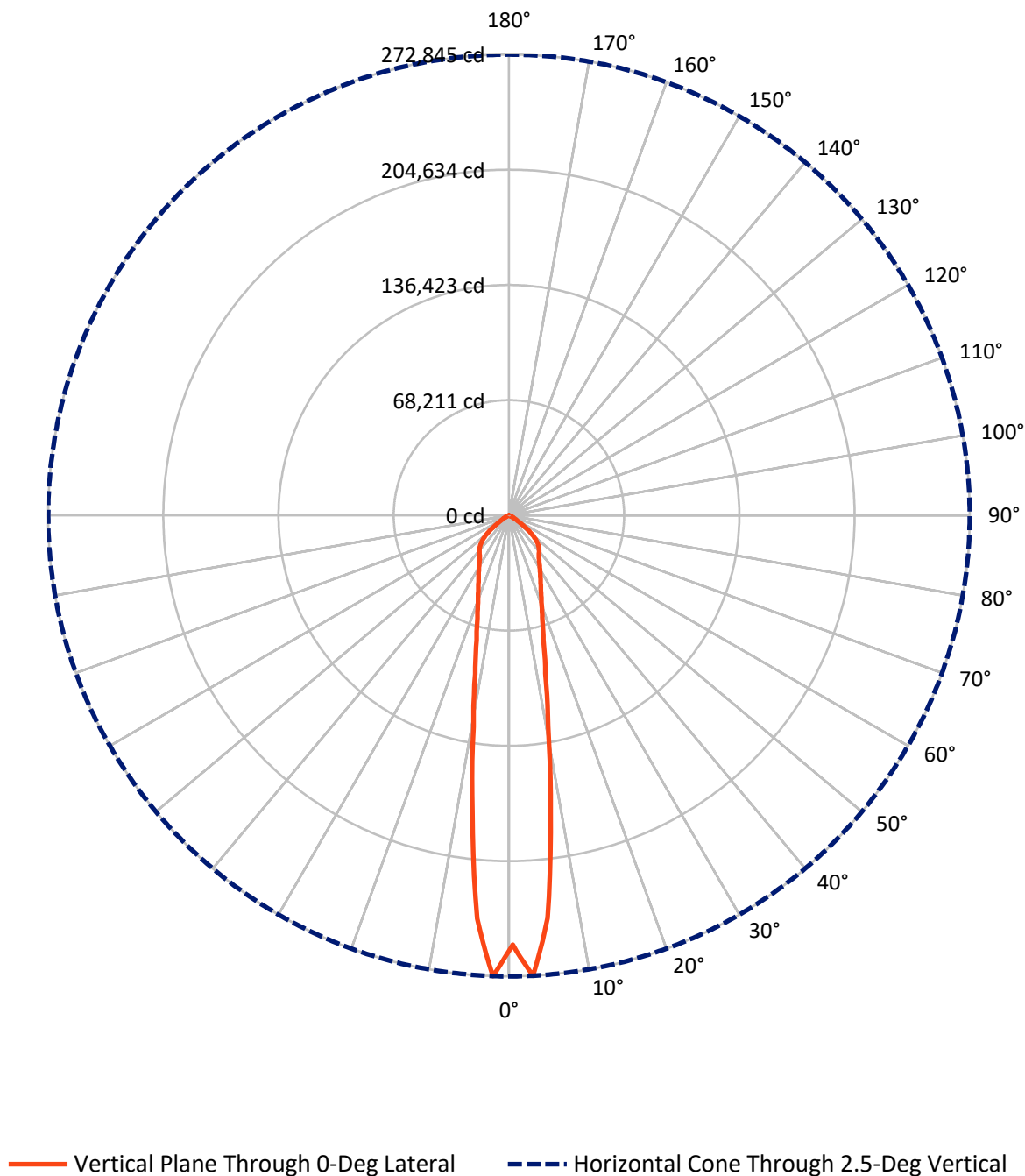
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 282.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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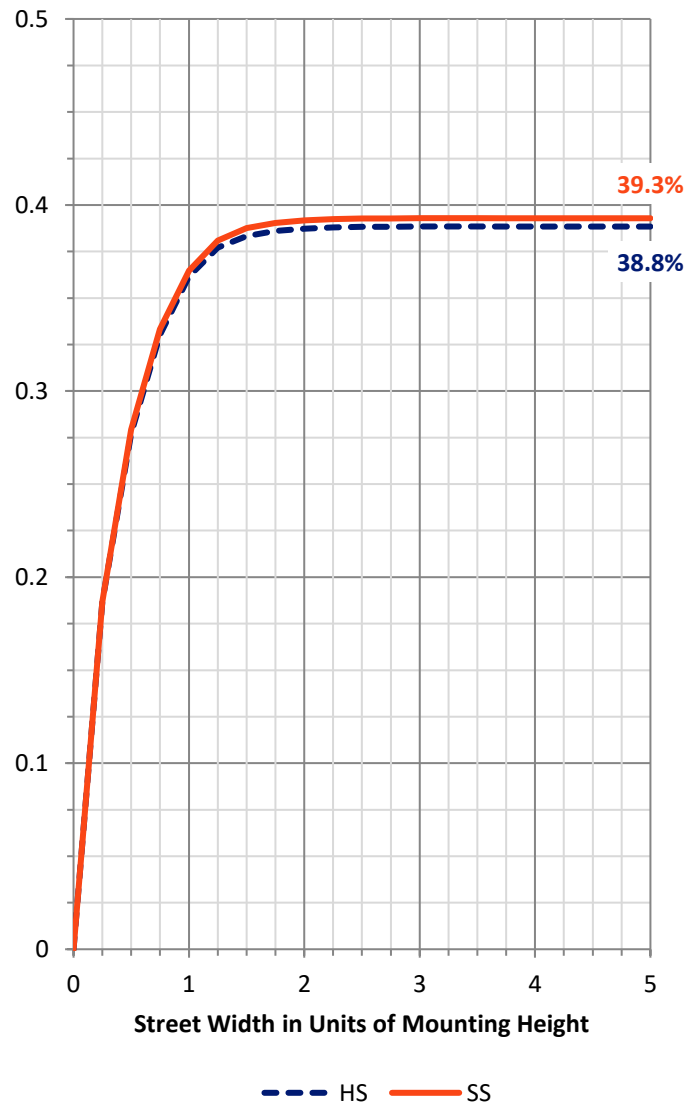
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54867.3	0.0	54867.3
	% Lamp	39.2	0.0	39.2
Street Side	Lumens	54867.3	0.0	54867.3
	% Lamp	39.2	0.0	39.2
Total	Lumens	109734.5	0.0	109734.5
	% Lamp	78.4	0.0	78.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	18718.9	17.1	13.4
10°-20°	22169.4	20.2	15.8
20°-30°	20199.1	18.4	14.4
30°-40°	19386.9	17.7	13.8
40°-50°	18104.5	16.5	12.9
50°-60°	8898.6	8.1	6.4
60°-70°	2185.8	2.0	1.6
70°-80°	71.3	0.1	0.1
80°-90°	0.0	0.0	0.0
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°	109734.5	100.0	78.4
0°-180°	109734.5	100.0	78.4

Coefficient of Utilization



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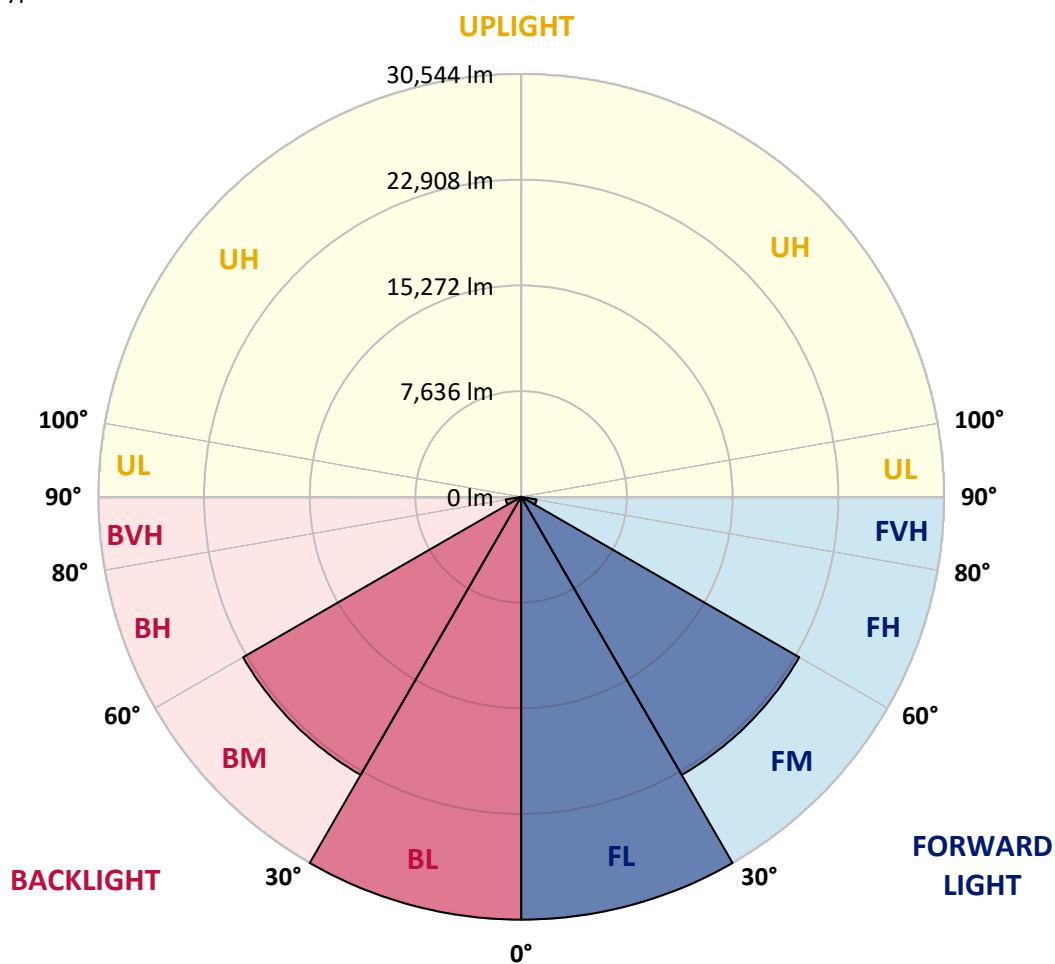
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30543.7	21.8			
FM	(30°-60°)	23195.0	16.6			
FH	(60°-80°)	1128.6	0.8			G1/1800
FVH	(80°-90°)	0.0	0.0			G0/10
BL	(0°-30°)	30543.7	21.8	B5		
BM	(30°-60°)	23195.0	16.6	B5		
BH	(60°-80°)	1128.6	0.8	B3/2500		G1/1800
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		30265.5	21.6			

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	254137
2.5°	272845
5°	239474
7.5°	176926
10°	126986
12.5°	95963
15°	76304
17.5°	63722
20°	54862
22.5°	48428
25°	43409
27.5°	39437
30°	36035
32.5°	32963
35°	30476
37.5°	28893
40°	27498
42.5°	25961
45°	23900
47.5°	21367
50°	18081
52.5°	13785
55°	9220
57.5°	6043
60°	4282
62.5°	3105
65°	2133
67.5°	1270
70°	509
72.5°	20
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)