

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: 766071

Luminaire Tested: **HMX91SXXDW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766071
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: HMX91SXXDW
Description: 1000W HPS TYPE V HIGH MAST
Light Source: 1000W HPS CL E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 98455.7 lumens
Efficiency: 70.3%
Efficacy: 98.5 lumens/watt
Luminous Opening: (L: 0 ' x W: -2.33 ' x H: 2 '
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U4 - G5

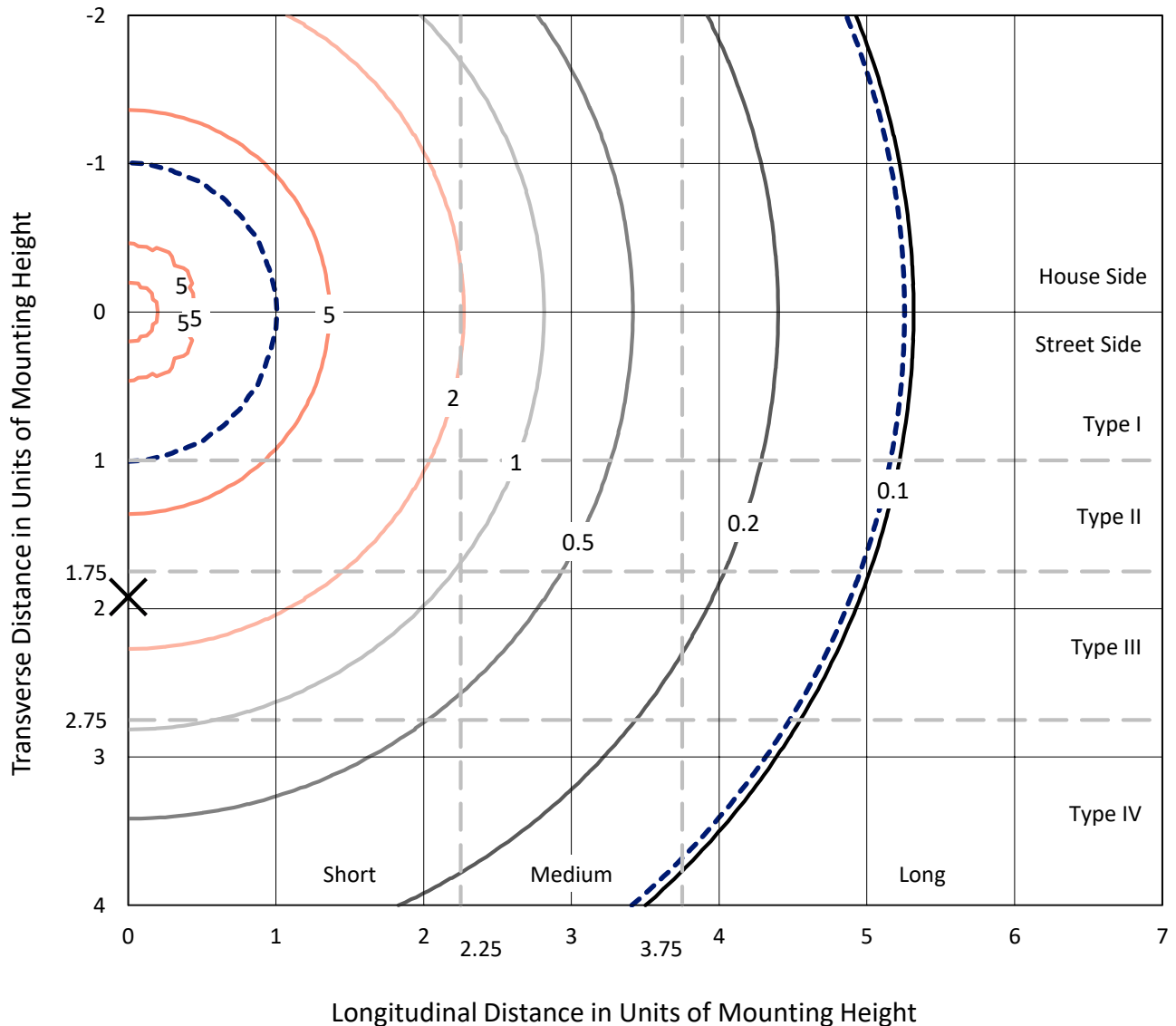
Input Watts (W): 1000
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

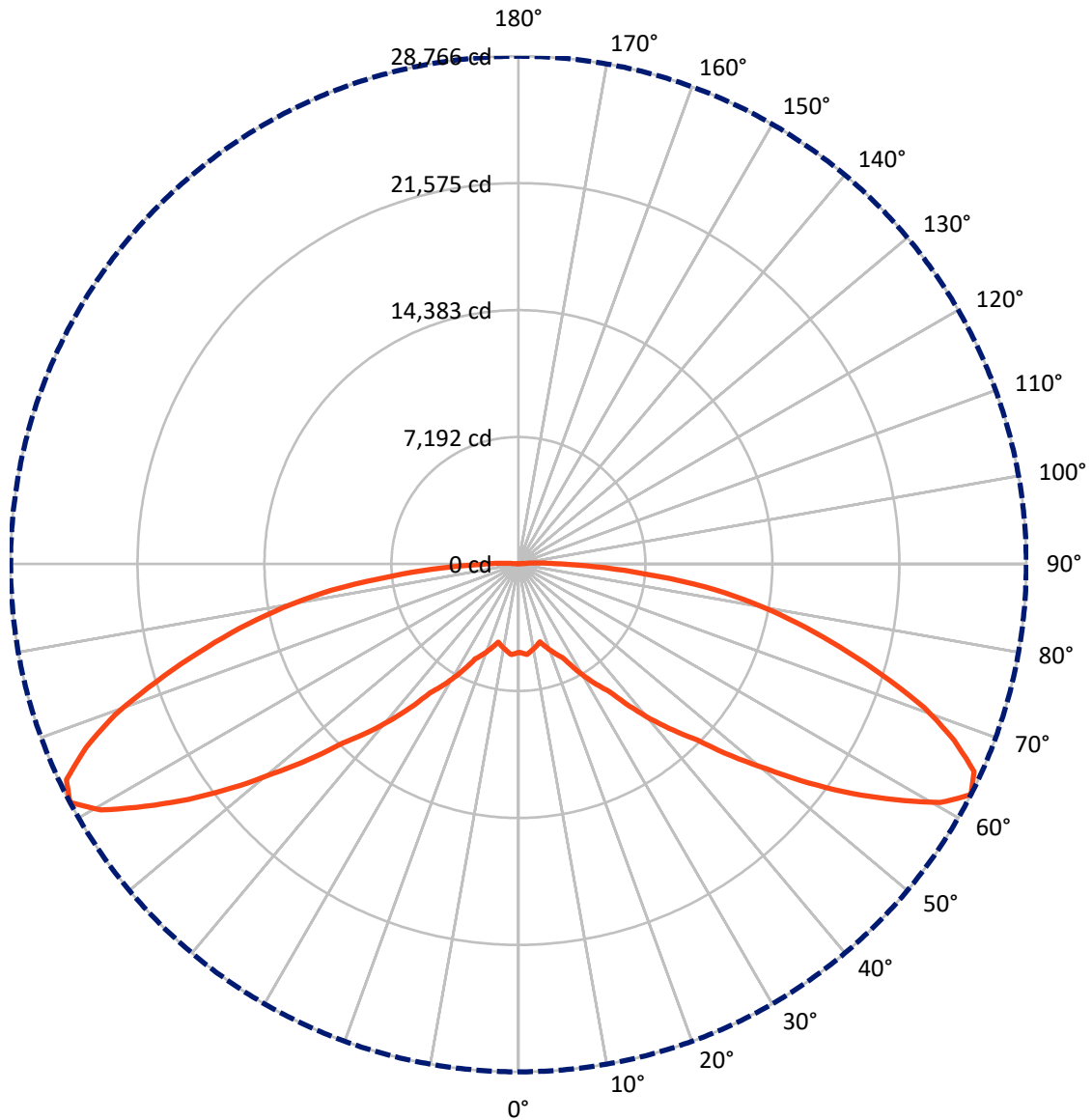
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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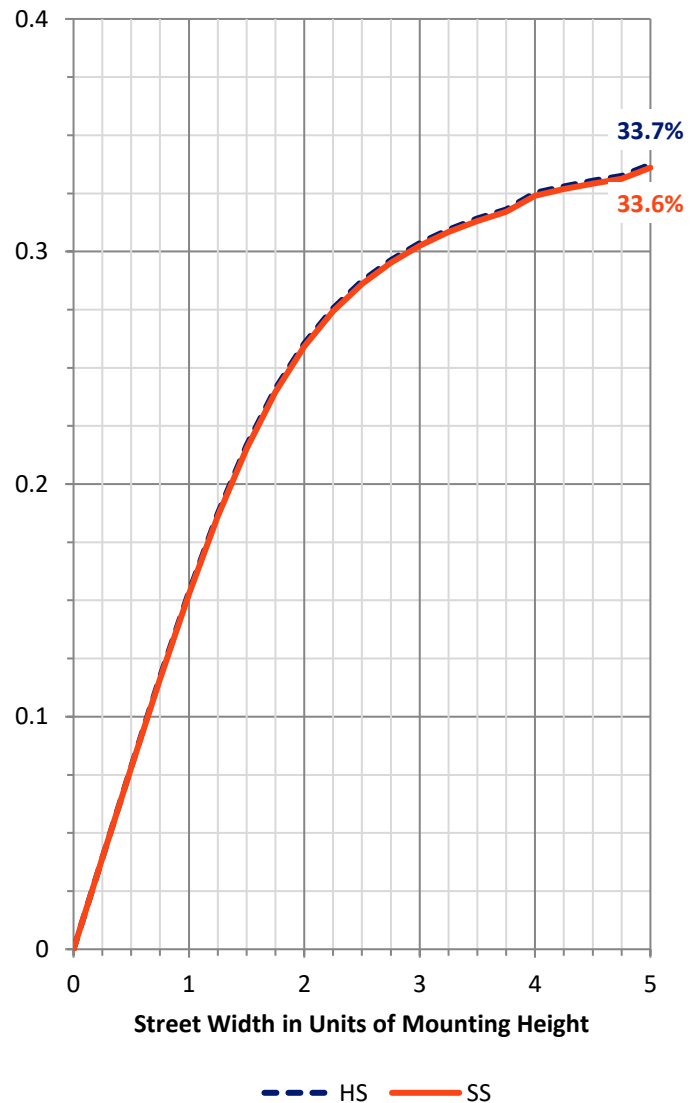
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	48819.1	408.8	49227.8
	% Lamp	34.9	0.3	35.2
Street Side	Lumens	48819.1	408.8	49227.8
	% Lamp	34.9	0.3	35.2
Total	Lumens	97638.1	817.6	98455.7
	% Lamp	69.7	0.6	70.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	479.1	0.5	0.3
10°-20°	1430.2	1.5	1.0
20°-30°	2920.1	3.0	2.1
30°-40°	5943.7	6.0	4.2
40°-50°	11541.9	11.7	8.2
50°-60°	20606.8	20.9	14.7
60°-70°	27190.0	27.6	19.4
70°-80°	19937.2	20.2	14.2
80°-90°	8167.4	8.3	5.8
90°-100°	751.1	0.8	0.5
100°-110°	88.9	0.1	0.1
110°-120°	11.2	0.0	0.0
120°-130°	3.6	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°	97638.1	99.2	69.7
0°-180°	98455.7	100.0	70.3



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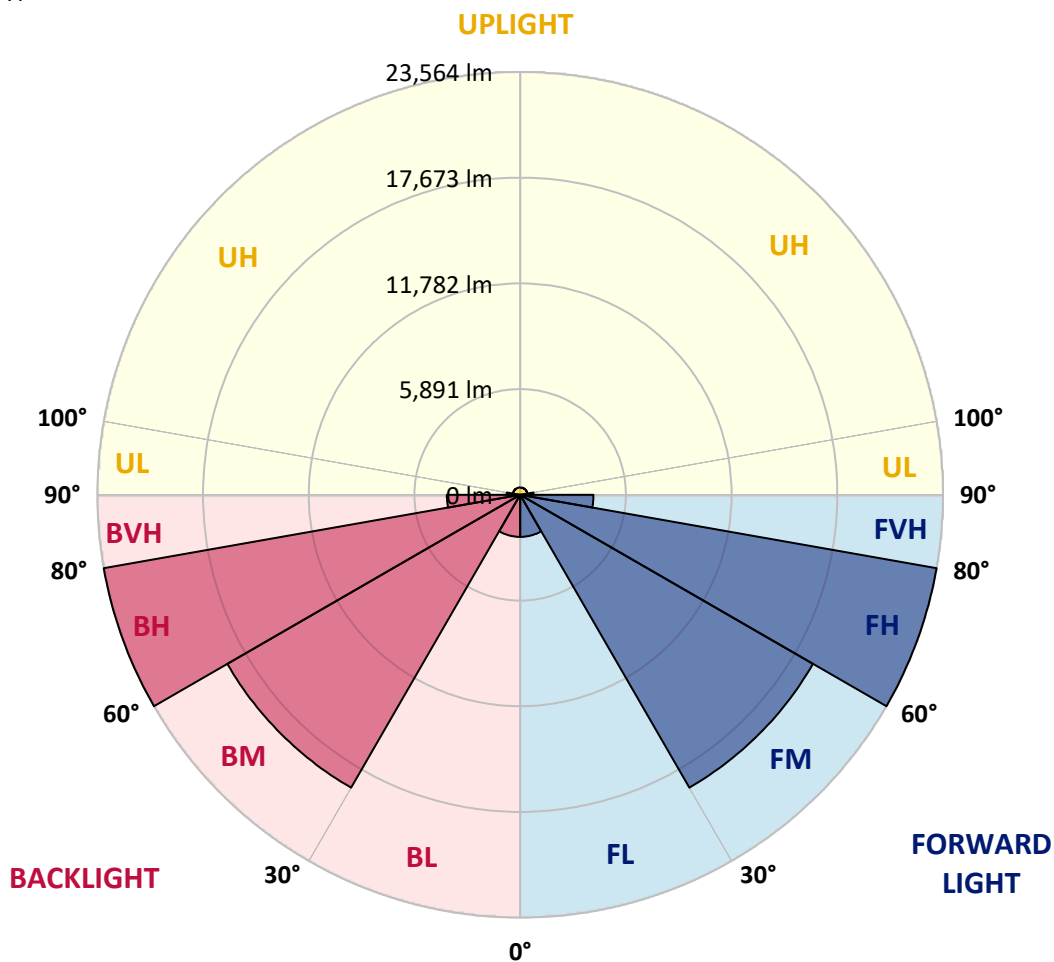
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.5	1.7			
FM	(30°-60°)	18843.6	13.5			
FH	(60°-80°)	23563.6	16.8			G5
FVH	(80°-90°)	4083.7	2.9			G5
BL	(0°-30°)	2343.5	1.7	B3/2500		
BM	(30°-60°)	18843.6	13.5	B5		
BH	(60°-80°)	23563.6	16.8	B5		G5
BVH	(80°-90°)	4083.7	2.9			G5
UL	(90°-100°)	751.1	0.5		U4/1000	
UH	(100°-180°)	408.8	0.3		U3/500	
Trapped Light		41544.3	29.7			

BUG Rating: B5-U4-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	4997
5°	5146
15°	4566
25°	5903
35°	8863
45°	14217
50°	18267
55°	22943
60°	27442
62.5°	28766
65°	28363
67.5°	26602
70°	24410
72.5°	21558
75°	18808
77.5°	16200
80°	13541
82.5°	10695
85°	7224
87.5°	4309
90°	2005
95°	294
105°	13
115°	16
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0

(END OF REPORT)