

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: 766070

Luminaire Tested: **HMX91SXXNW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766070
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: HMX91SXXNW
Description: 1000W HPS TYPE V HIGH MAST
Light Source: 1000W HPS E-25
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 114640 lumens
Efficiency: 81.9%
Efficacy: 114.6 lumens/watt
Luminous Opening: (L: 0 ' x W: -2.33 ' x H: 2 '
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U5 - G5

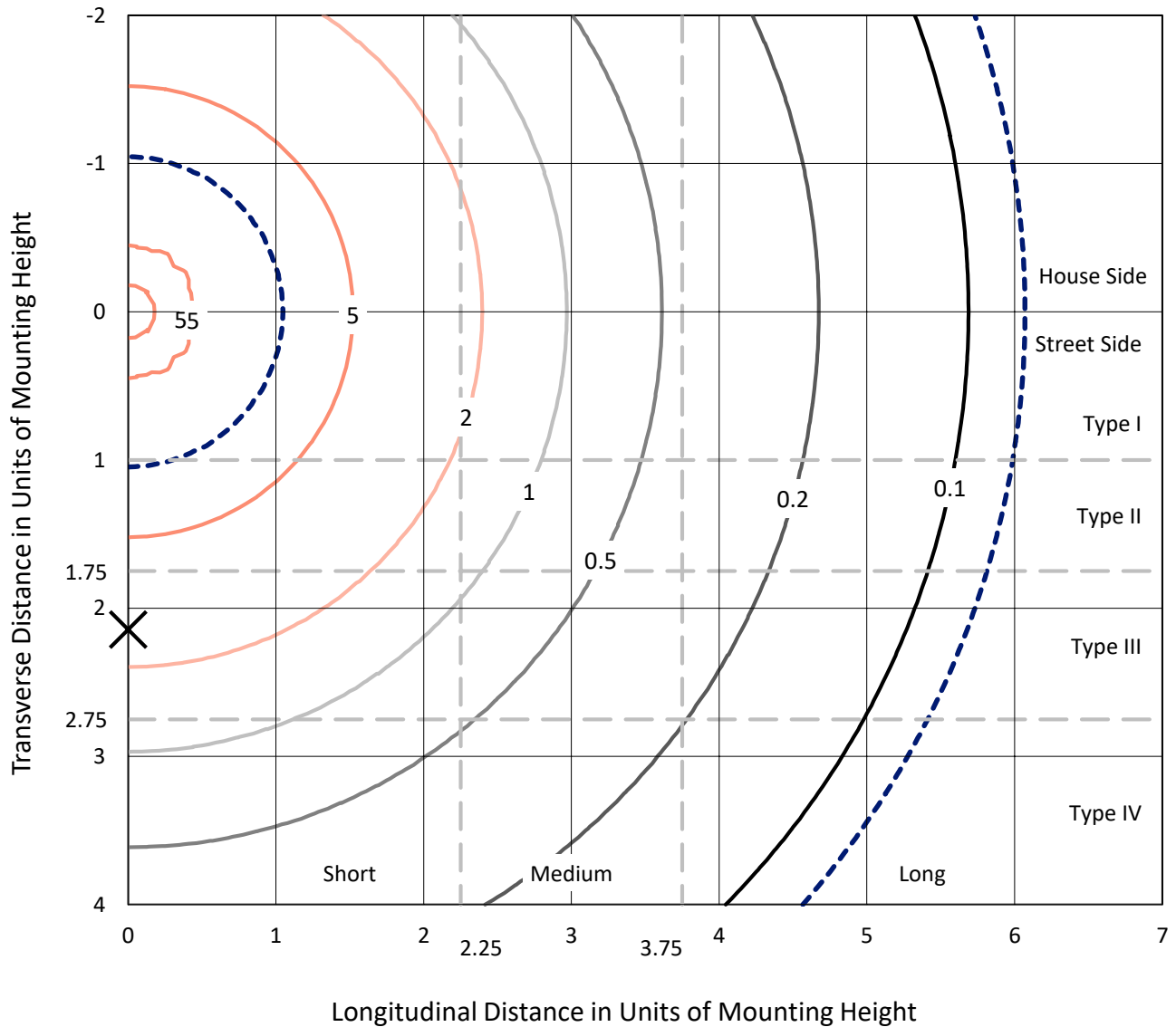
Input Watts (W): 1000
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 766070
 CATALOG NUMBER: HMX91SXXNW

Iso-Footcandle Lines of Horizontal Illumination

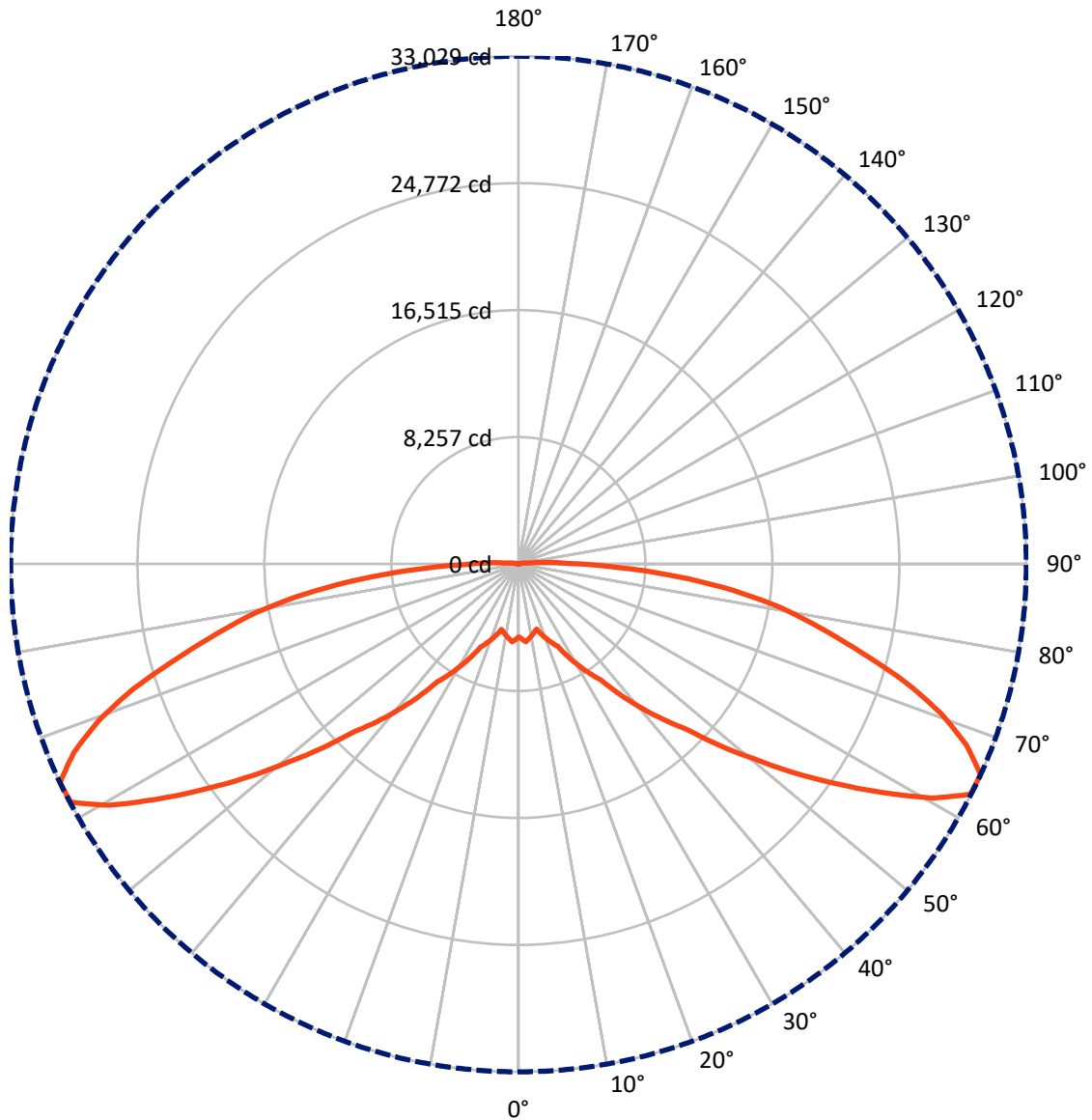
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: 766070
CATALOG NUMBER: HMX91SXXNW

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: 766070
 CATALOG NUMBER: HMX91SXXNW

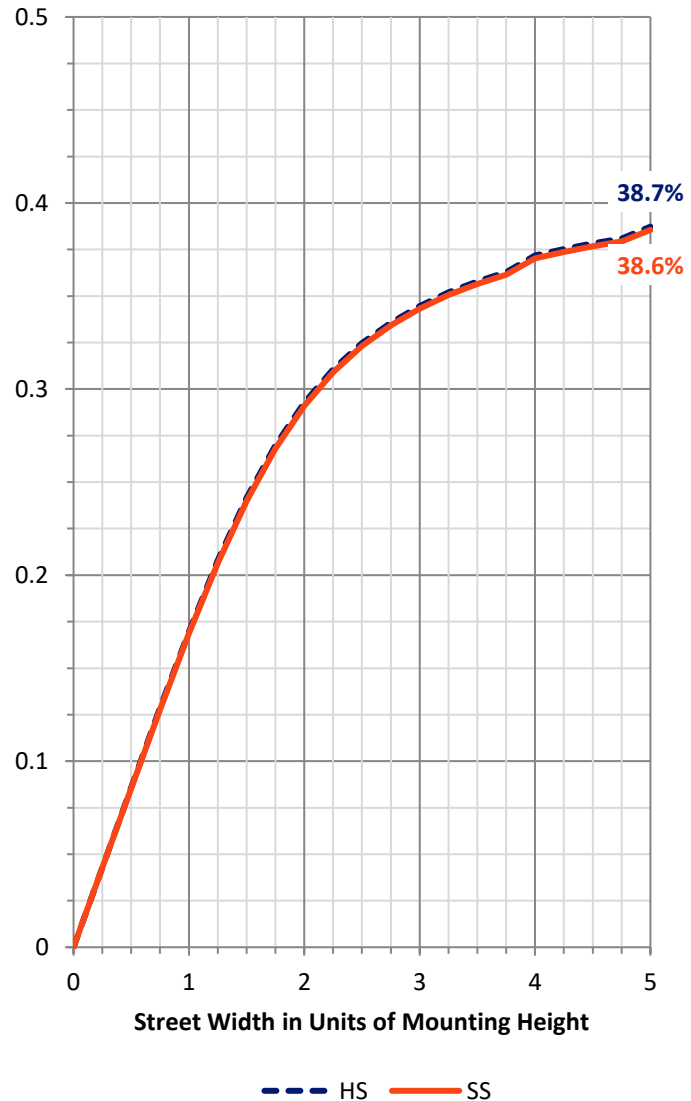
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	56565.3	754.7	57320.0
	% Lamp	40.4	0.5	40.9
Street Side	Lumens	56565.3	754.7	57320.0
	% Lamp	40.4	0.5	40.9
Total	Lumens	113130.6	1509.4	114640.0
	% Lamp	80.8	1.1	81.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	468.1	0.4	0.3
10°-20°	1403.7	1.2	1.0
20°-30°	2960.1	2.6	2.1
30°-40°	6261.3	5.5	4.5
40°-50°	12501.9	10.9	8.9
50°-60°	22826.5	19.9	16.3
60°-70°	31618.7	27.6	22.6
70°-80°	24497.7	21.4	17.5
80°-90°	11257.1	9.8	8.0
90°-100°	1408.7	1.2	1.0
100°-110°	188.3	0.2	0.1
110°-120°	4.0	0.0	0.0
120°-130°	1.8	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°	113130.6	98.7	80.8
0°-180°	114640.0	100.0	81.9



REPORT NUMBER: 766070

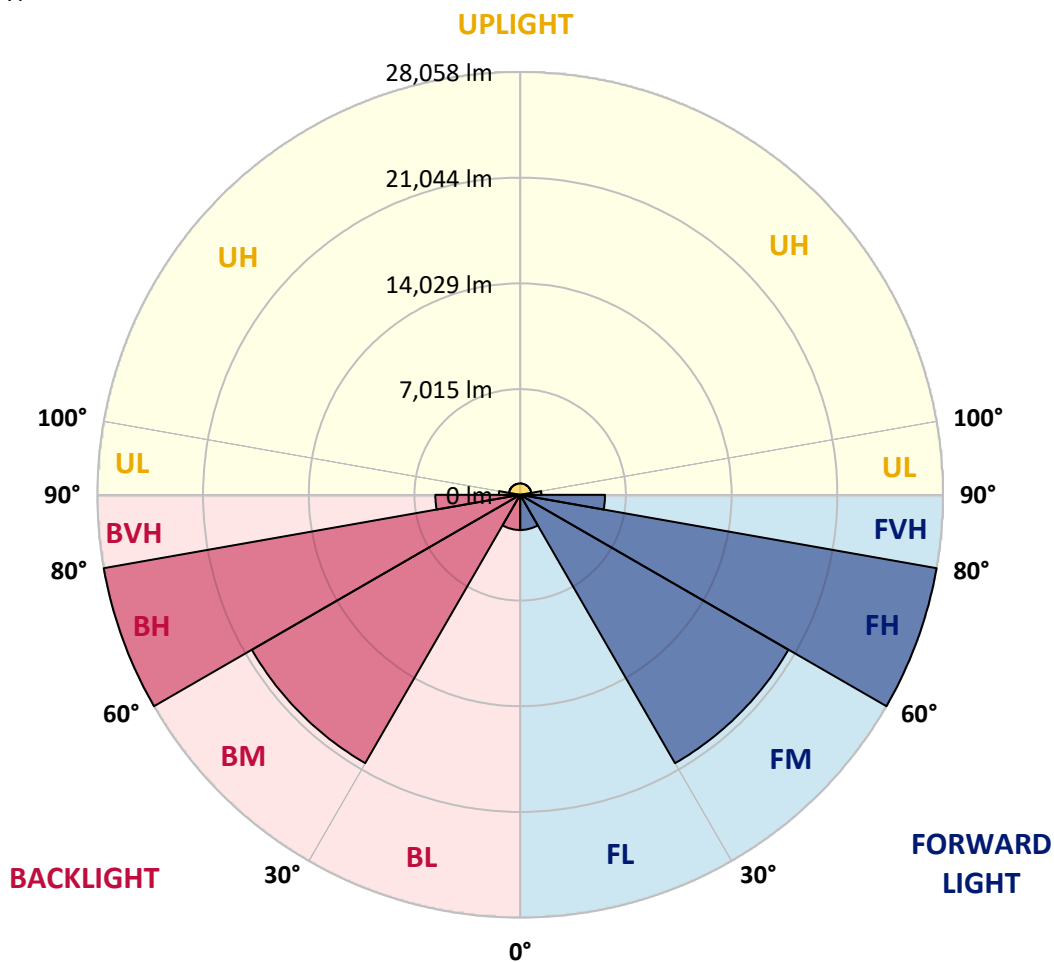
CATALOG NUMBER: HMX91SXXNW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2335.6	1.7			
FM	(30°-60°)	20560.2	14.7			
FH	(60°-80°)	28058.2	20.0			G5
FVH	(80°-90°)	5628.6	4.0			G5
BL	(0°-30°)	2335.6	1.7	B3/2500		
BM	(30°-60°)	20560.2	14.7	B5		
BH	(60°-80°)	28058.2	20.0	B5		G5
BVH	(80°-90°)	5628.6	4.0			G5
UL	(90°-100°)	1408.7	1.0		U5	
UH	(100°-180°)	754.7	0.5		U4/1000	
Trapped Light		25360.0	18.1			

BUG Rating: B5-U5-G5

Type V Short





REPORT NUMBER: 766070

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4736
5°	5073
15°	4394
25°	5947
35°	9293
45°	15335
50°	19972
55°	25280
60°	30906
62.5°	32982
65°	33029
67.5°	31420
70°	29174
72.5°	26350
75°	23075
77.5°	20106
80°	17371
82.5°	14049
85°	10379
87.5°	6529
90°	3393
95°	704
105°	0
115°	8
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0

(END OF REPORT)