

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: 766069

Luminaire Tested: **HMX91SXXCM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766069
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: HMX91SXXCM
Description: 1000W HPS TYPE V HIGH MAST
Light Source: 1000W HPS CL BT-56
Ballast/Driver: -

Summary

Lumens per Lamp: 140000 (1 lamp)
Luminaire Lumens: 93368.8 lumens
Efficiency: 66.7%
Efficacy: 93.4 lumens/watt
Luminous Opening: (L: 0 ' x W: -2.33 ' x H: 2 '
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

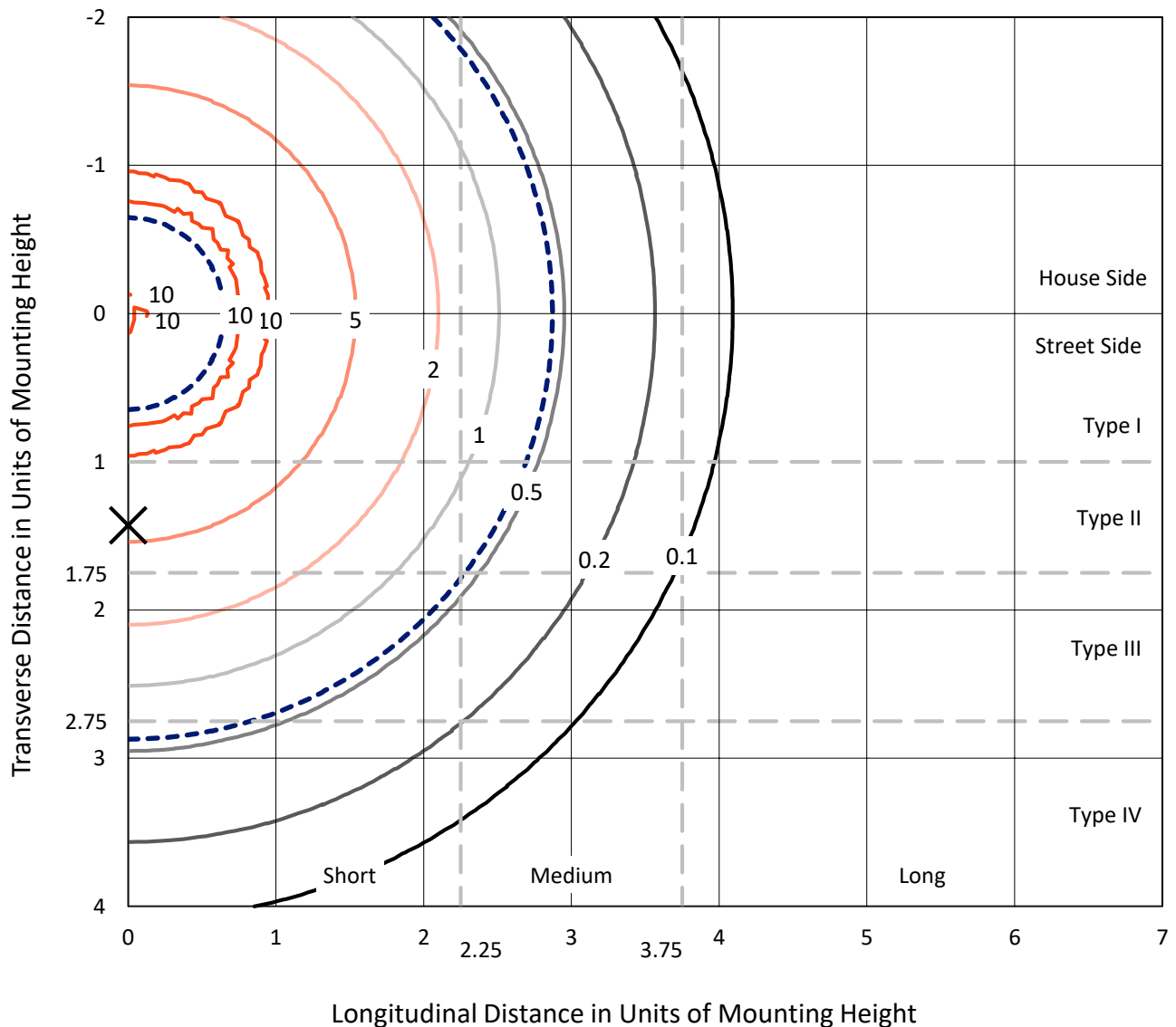
Input Watts (W): 1000
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

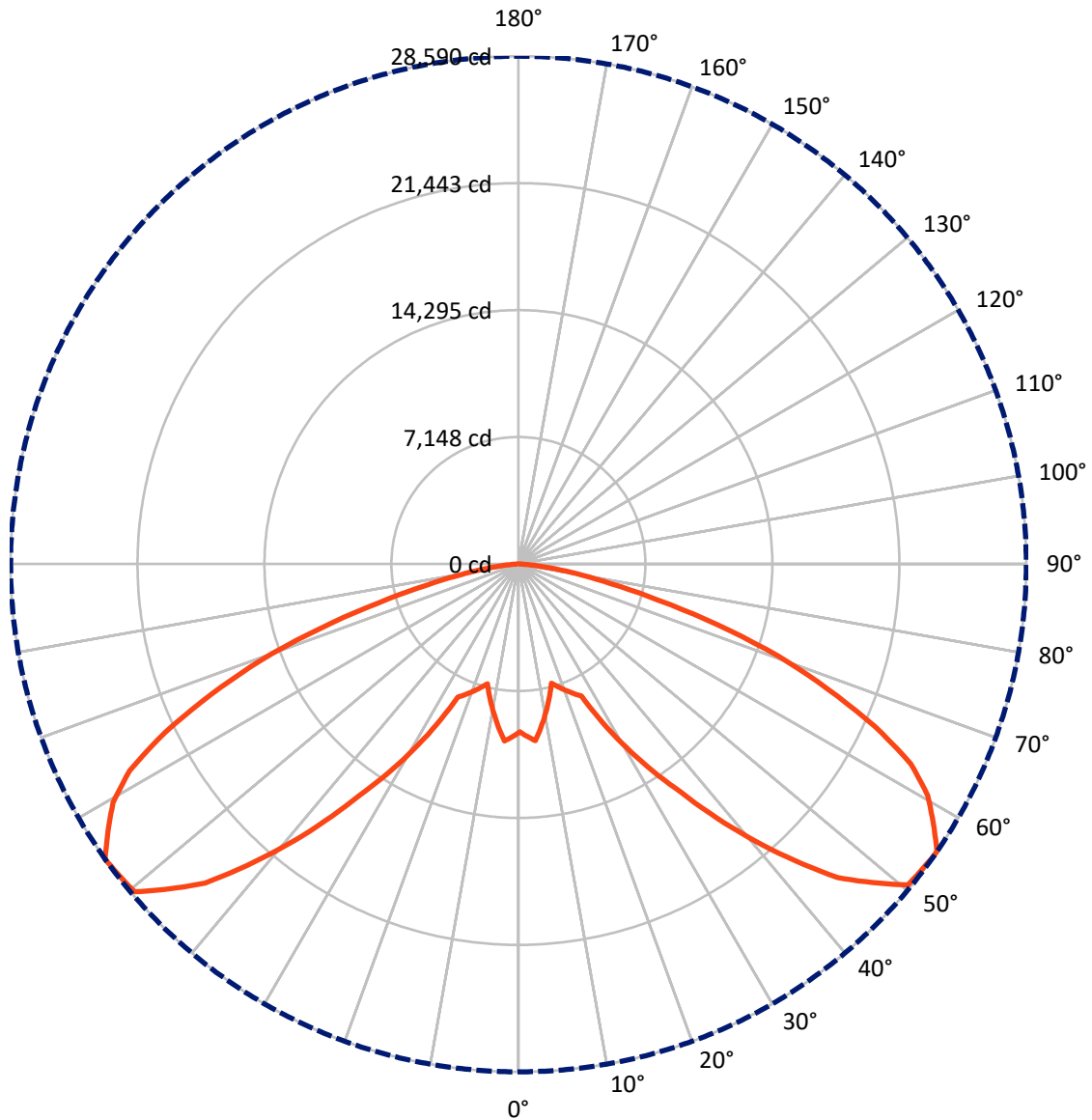
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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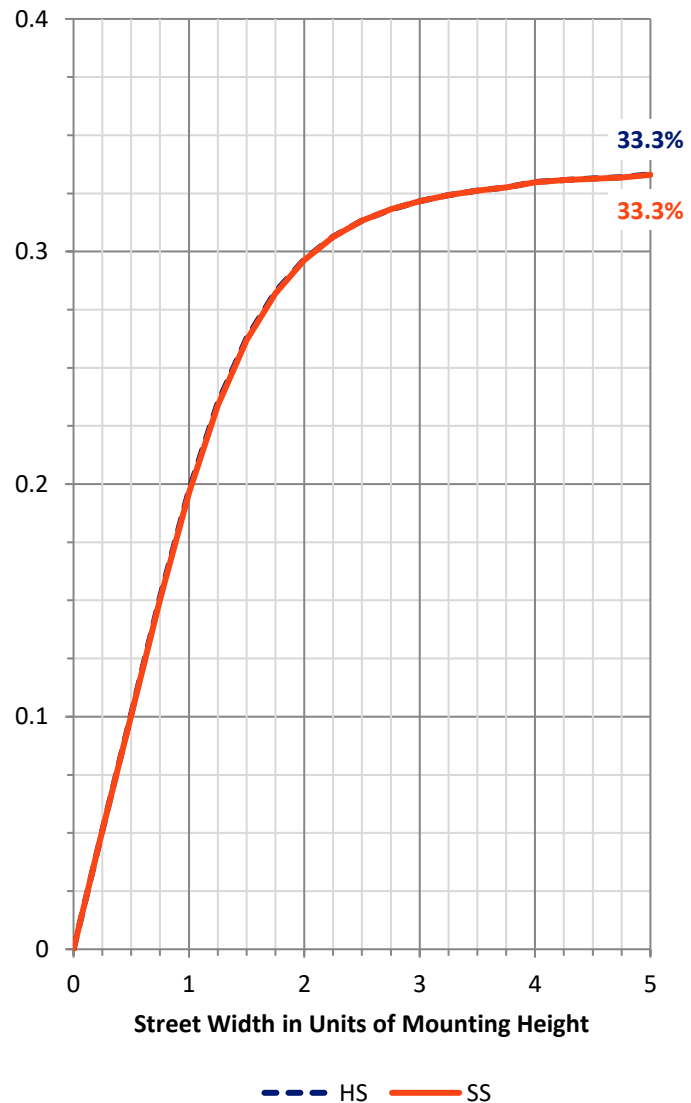
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46684.4	0.0	46684.4
	% Lamp	33.3	0.0	33.3
Street Side	Lumens	46684.4	0.0	46684.4
	% Lamp	33.3	0.0	33.3
Total	Lumens	93368.8	0.0	93368.8
	% Lamp	66.7	0.0	66.7

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	893.4	1.0	0.6
10°-20°	2278.2	2.4	1.6
20°-30°	4538.5	4.9	3.2
30°-40°	10208.9	10.9	7.3
40°-50°	18934.2	20.3	13.5
50°-60°	25123.9	26.9	17.9
60°-70°	21424.8	22.9	15.3
70°-80°	9100.3	9.7	6.5
80°-90°	1198.5	1.3	0.9
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°	93368.8	100.0	66.7
0°-180°	93368.8	100.0	66.7

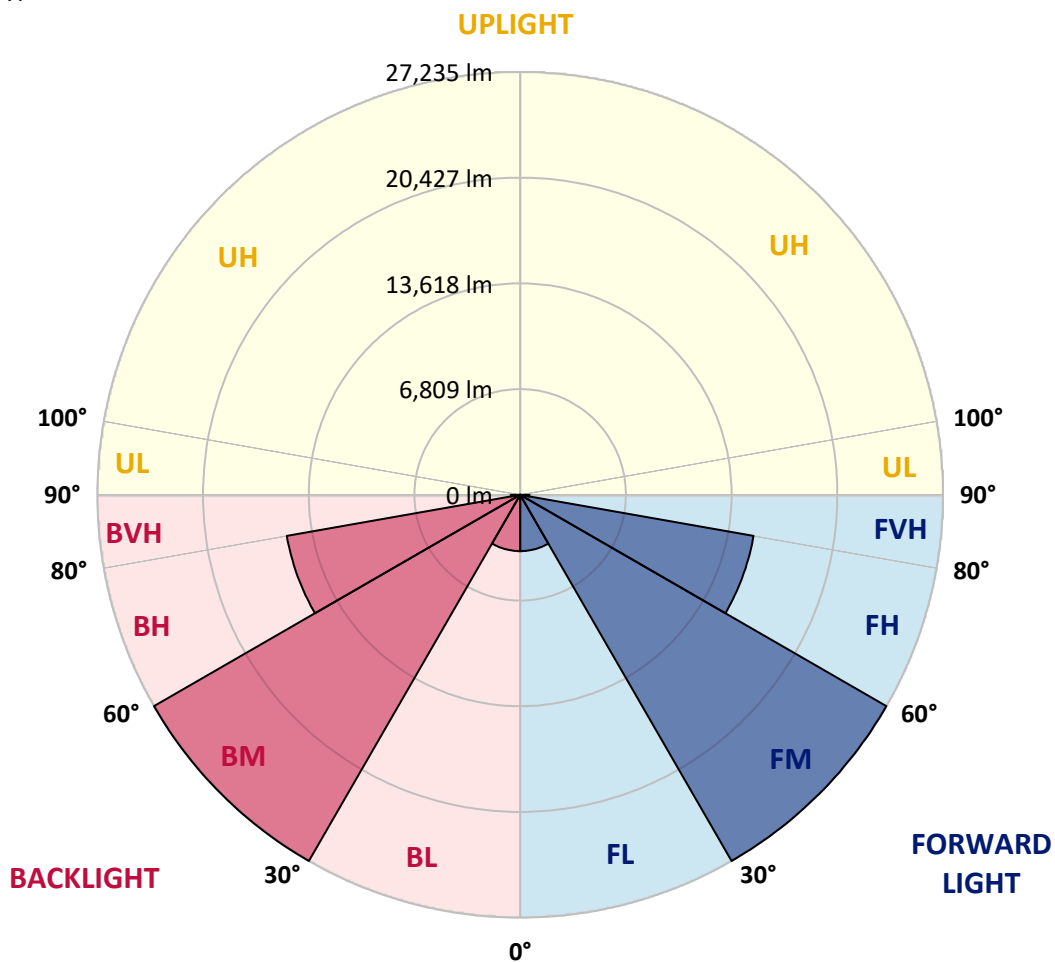


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3626.3	2.6			
FM	(30°-60°)	27235.4	19.5			
FH	(60°-80°)	15262.5	10.9			G5
FVH	(80°-90°)	599.3	0.4			G4/750
BL	(0°-30°)	3626.3	2.6	B4/5000		
BM	(30°-60°)	27235.4	19.5	B5		
BH	(60°-80°)	15262.5	10.9	B5		G5
BVH	(80°-90°)	599.3	0.4			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		46631.2	33.3			

BUG Rating: B5-U0-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	9449
5°	9997
15°	6959
25°	8233
35°	15796
45°	25179
50°	28410
55°	28590
60°	26484
62.5°	24792
65°	22055
67.5°	18782
70°	15509
72.5°	11726
75°	8159
77.5°	5306
80°	3293
82.5°	1816
85°	757
87.5°	191
90°	0
95°	0
105°	0
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0
175°	0
180°	0

(END OF REPORT)