

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: 48463 _350MP

Luminaire Tested: **HMX35PXXCM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 48463 _350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: HMX35PXXCM
Description: 400W MH TYPE V HIGH MAST
Light Source: 350 WATT PULSE-START CLEAR VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 37000 (1 lamp)
Luminaire Lumens: 21682.8 lumens
Efficiency: 58.6%
Efficacy: 54.6 lumens/watt
Luminous Opening: (L: -2.33 ' x W: 0 ' x H: 2 '
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

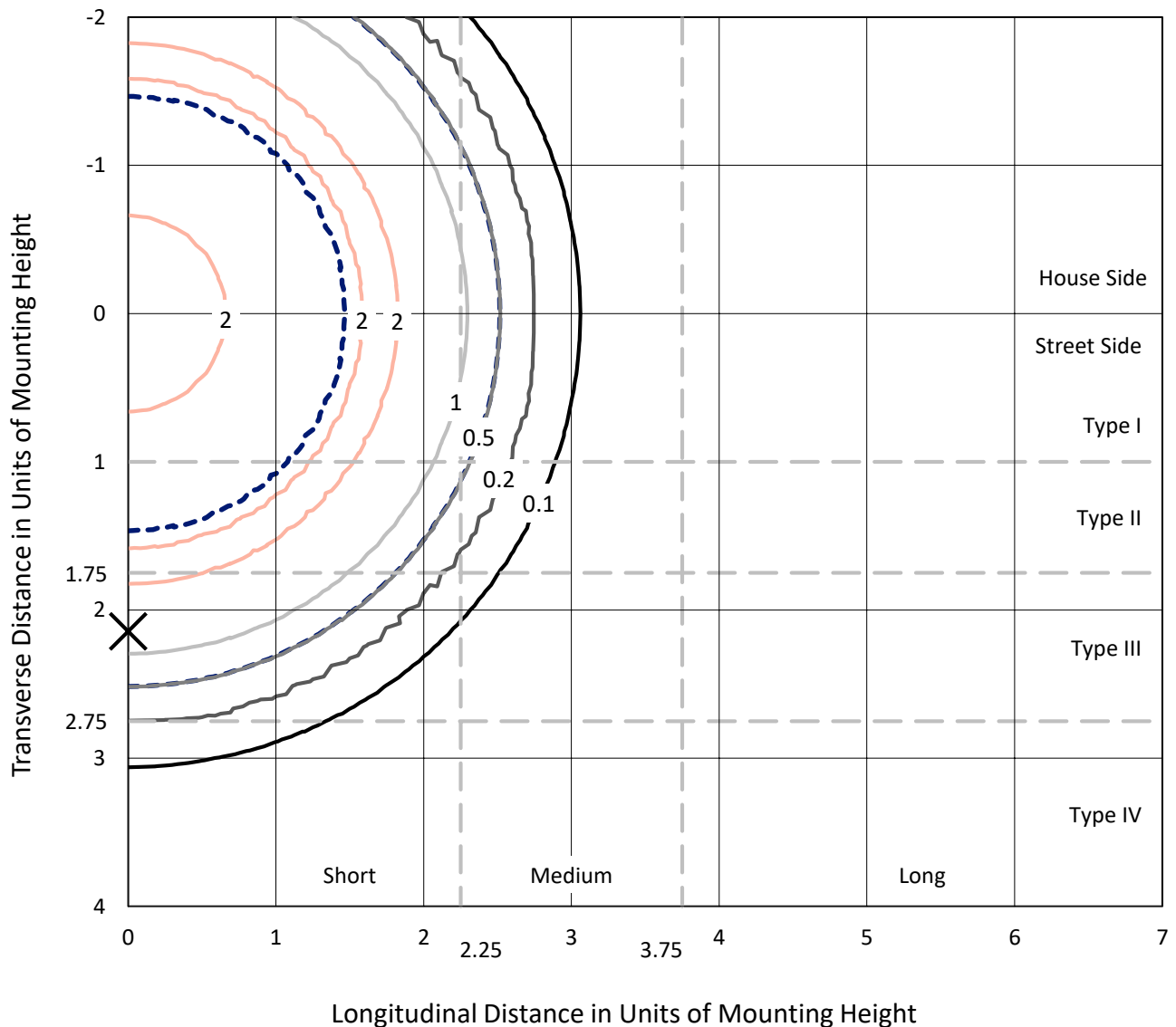
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

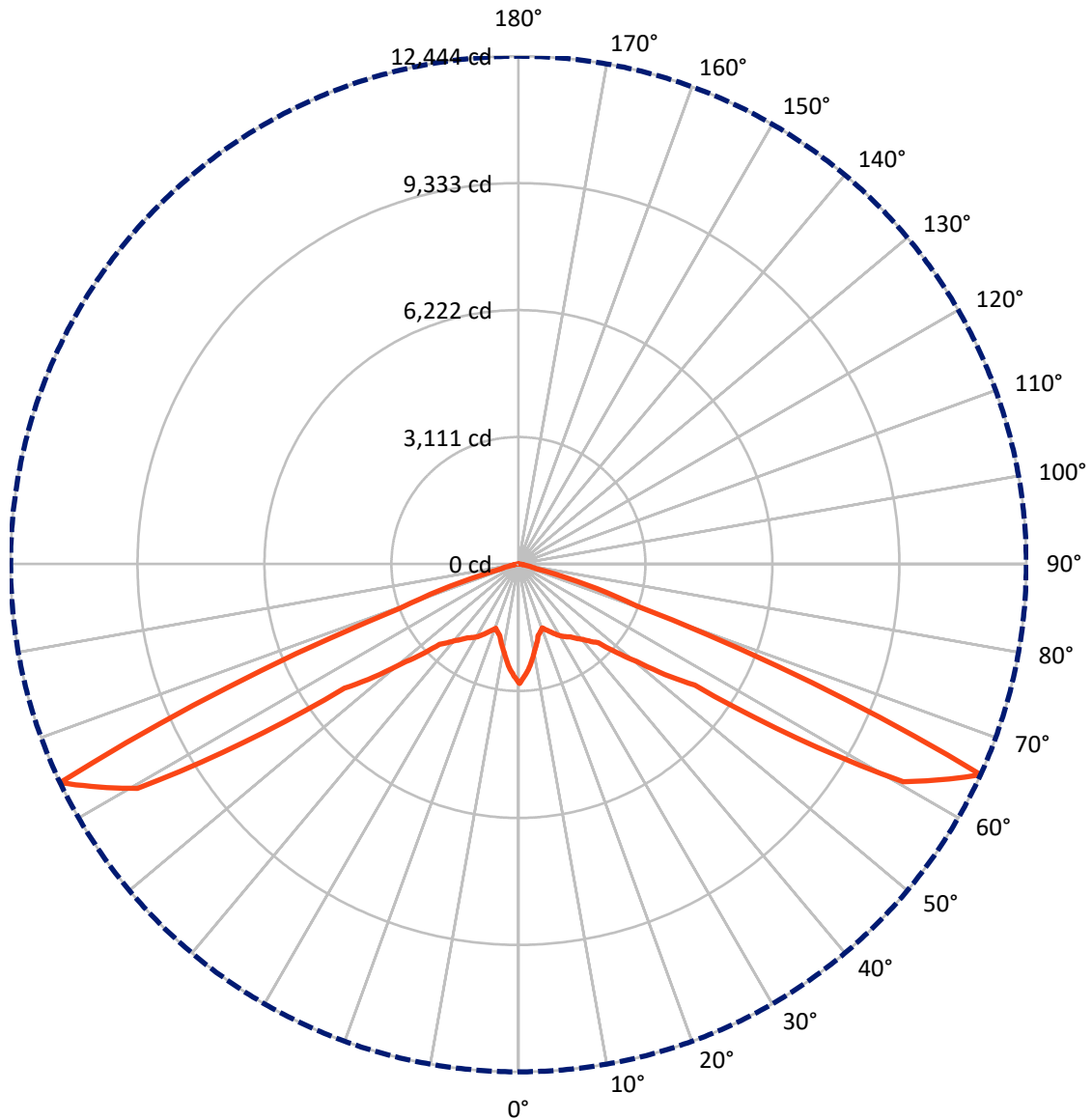
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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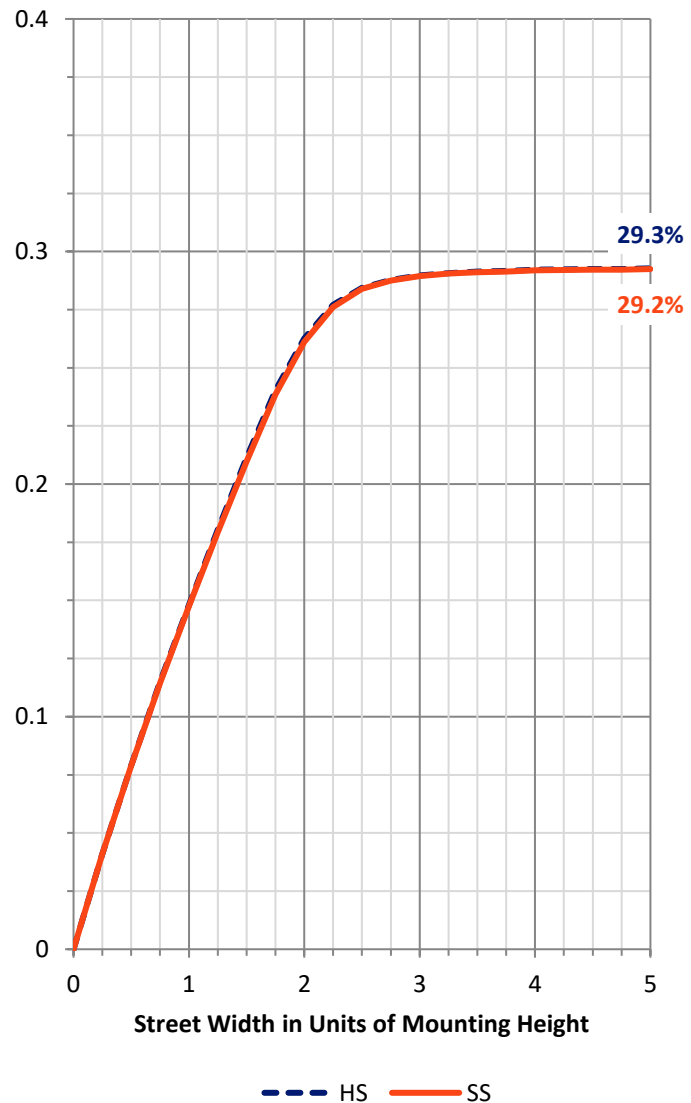
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10841.4	0.0	10841.4
	% Lamp	29.3	0.0	29.3
Street Side	Lumens	10841.4	0.0	10841.4
	% Lamp	29.3	0.0	29.3
Total	Lumens	21682.8	0.0	21682.8
	% Lamp	58.6	0.0	58.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	236.2	1.1	0.6
10°-20°	523.5	2.4	1.4
20°-30°	861.3	4.0	2.3
30°-40°	1397.0	6.4	3.8
40°-50°	2272.9	10.5	6.1
50°-60°	5670.0	26.1	15.3
60°-70°	9588.1	44.2	25.9
70°-80°	1073.4	5.0	2.9
80°-90°	60.4	0.3	0.2
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°	21682.8	100.0	58.6
0°-180°	21682.8	100.0	58.6

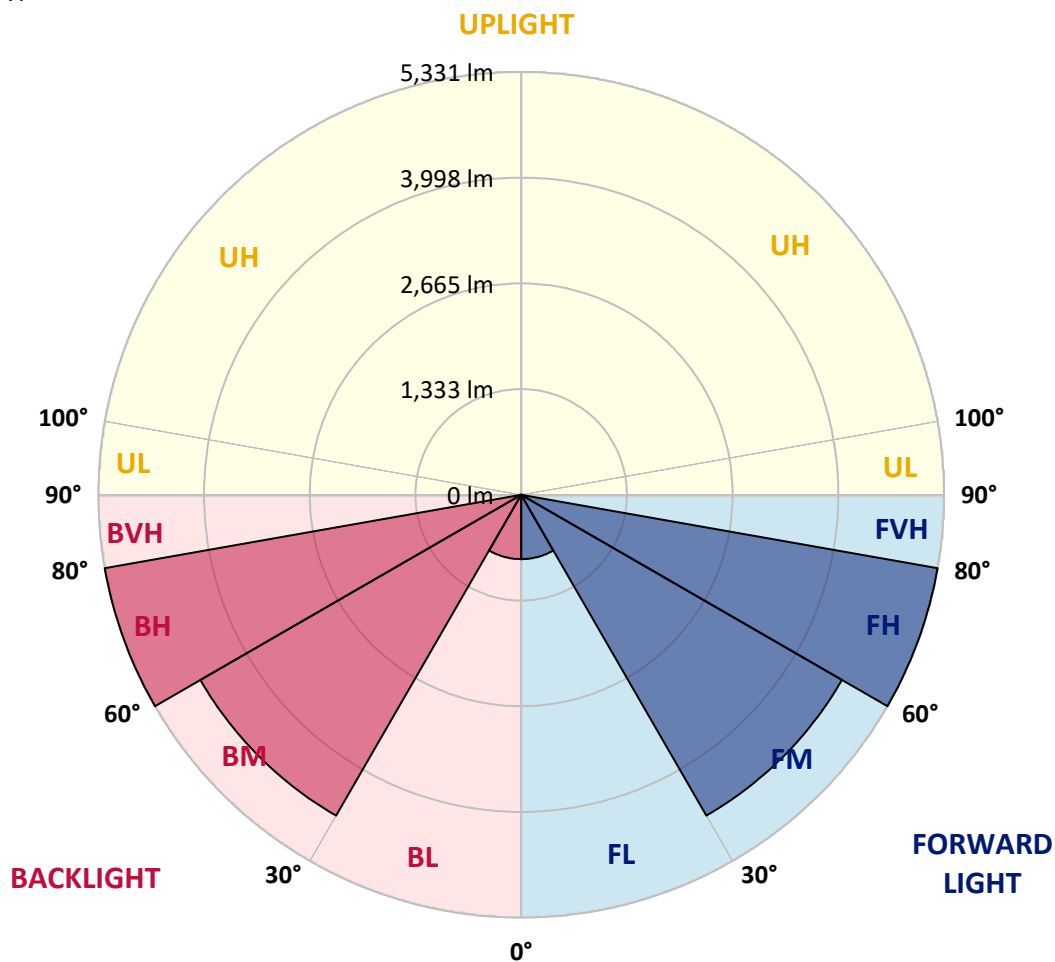


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	810.5	2.2			
FM	(30°-60°)	4669.9	12.6			
FH	(60°-80°)	5330.7	14.4			G3/7500
FVH	(80°-90°)	30.2	0.1			G1/100
BL	(0°-30°)	810.5	2.2	B2/1000		
BM	(30°-60°)	4669.9	12.6	B3/5000		
BH	(60°-80°)	5330.7	14.4	B5		G3/7500
BVH	(80°-90°)	30.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		15317.2	41.4			

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4
5°	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1
10°	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7
15°	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3
20°	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4
25°	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6
30°	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1
35°	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1
40°	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0
45°	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1
50°	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9
55°	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9
60°	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4
65°	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0
70°	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3
75°	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6
80°	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3
85°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4	2928.4
5°	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1	2591.1
10°	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7	2166.7
15°	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3	1816.3
20°	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4	1669.4
25°	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6	1844.6
30°	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1
35°	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1	2196.1
40°	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0	2430.0
45°	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1
50°	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9	3747.9
55°	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9
60°	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4	10833.4
65°	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0	12444.0
70°	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3	3074.3
75°	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6	439.6
80°	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3	139.3
85°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)