

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: 48312 _320MP

Luminaire Tested: **HMX32PXXDW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 48312 _320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: HMX32PXXDW
Description: 400W MH TYPE V HIGH MAST
Light Source: 320 WATT PULSE-START CLEAR VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 17468.5 lumens
Efficiency: 52.9%
Efficacy: 49.9 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

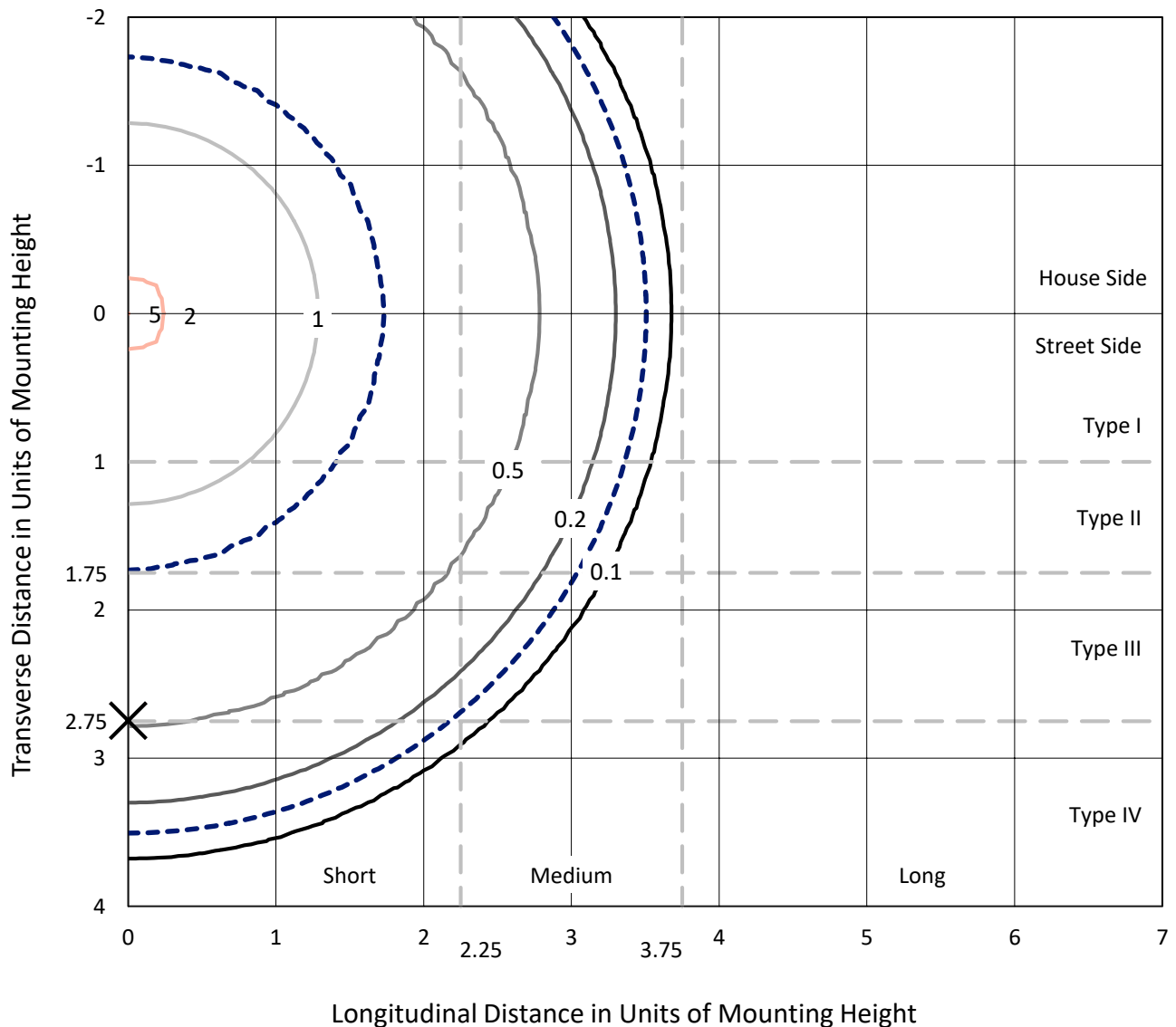
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

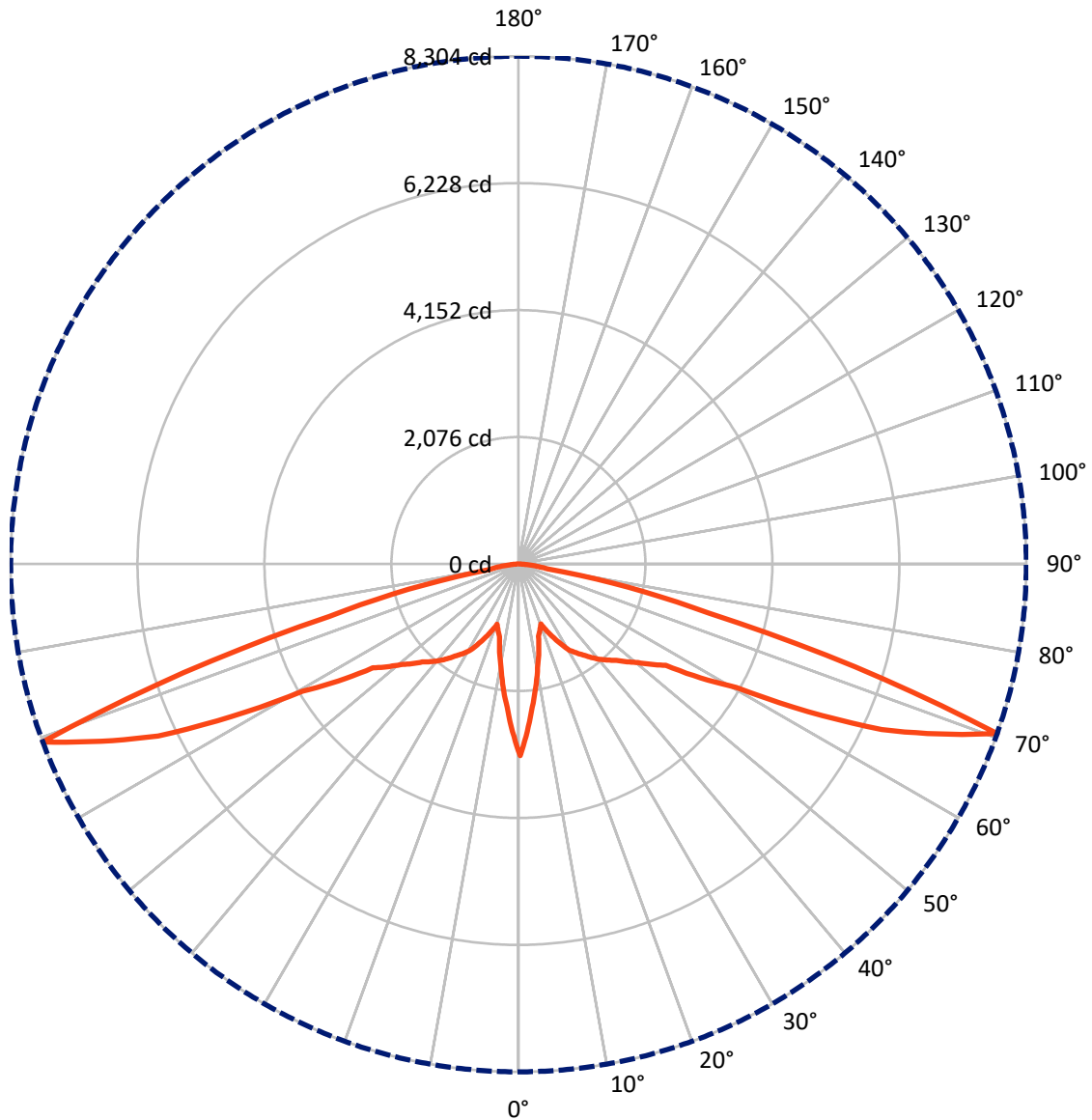
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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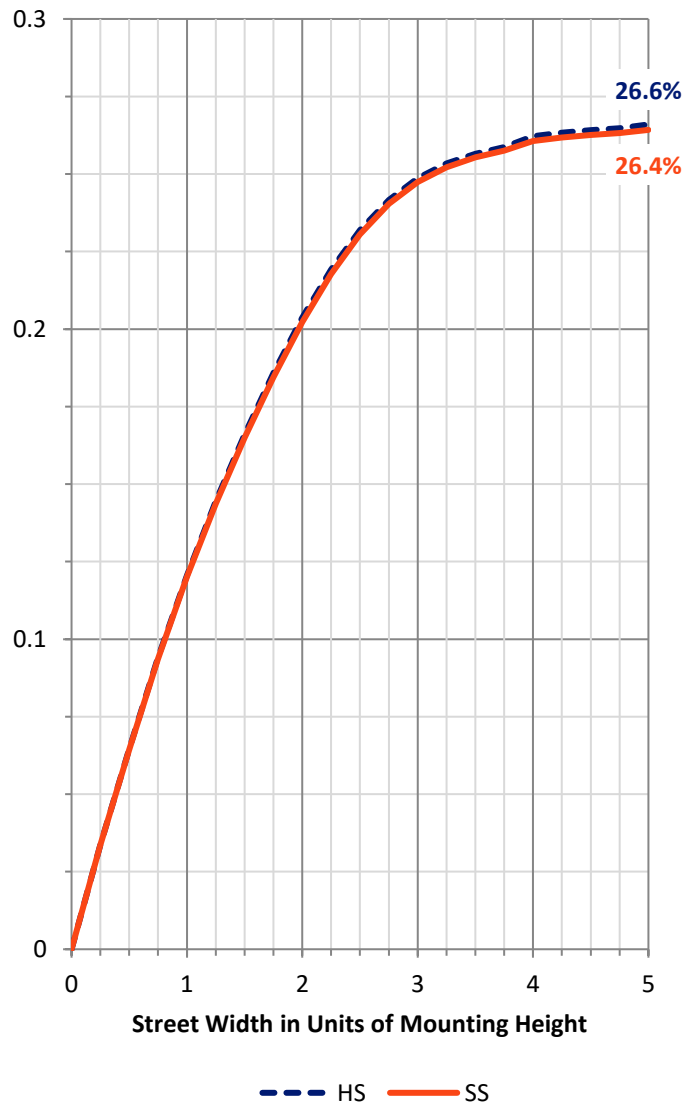
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8734.2	0.0	8734.2
	% Lamp	26.5	0.0	26.5
Street Side	Lumens	8734.2	0.0	8734.2
	% Lamp	26.5	0.0	26.5
Total	Lumens	17468.5	0.0	17468.5
	% Lamp	52.9	0.0	52.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	211.3	1.2	0.6
10°-20°	362.3	2.1	1.1
20°-30°	624.3	3.6	1.9
30°-40°	1156.5	6.6	3.5
40°-50°	1761.1	10.1	5.3
50°-60°	2810.3	16.1	8.5
60°-70°	6339.4	36.3	19.2
70°-80°	3998.0	22.9	12.1
80°-90°	205.2	1.2	0.6
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°	17468.5	100.0	52.9
0°-180°	17468.5	100.0	52.9

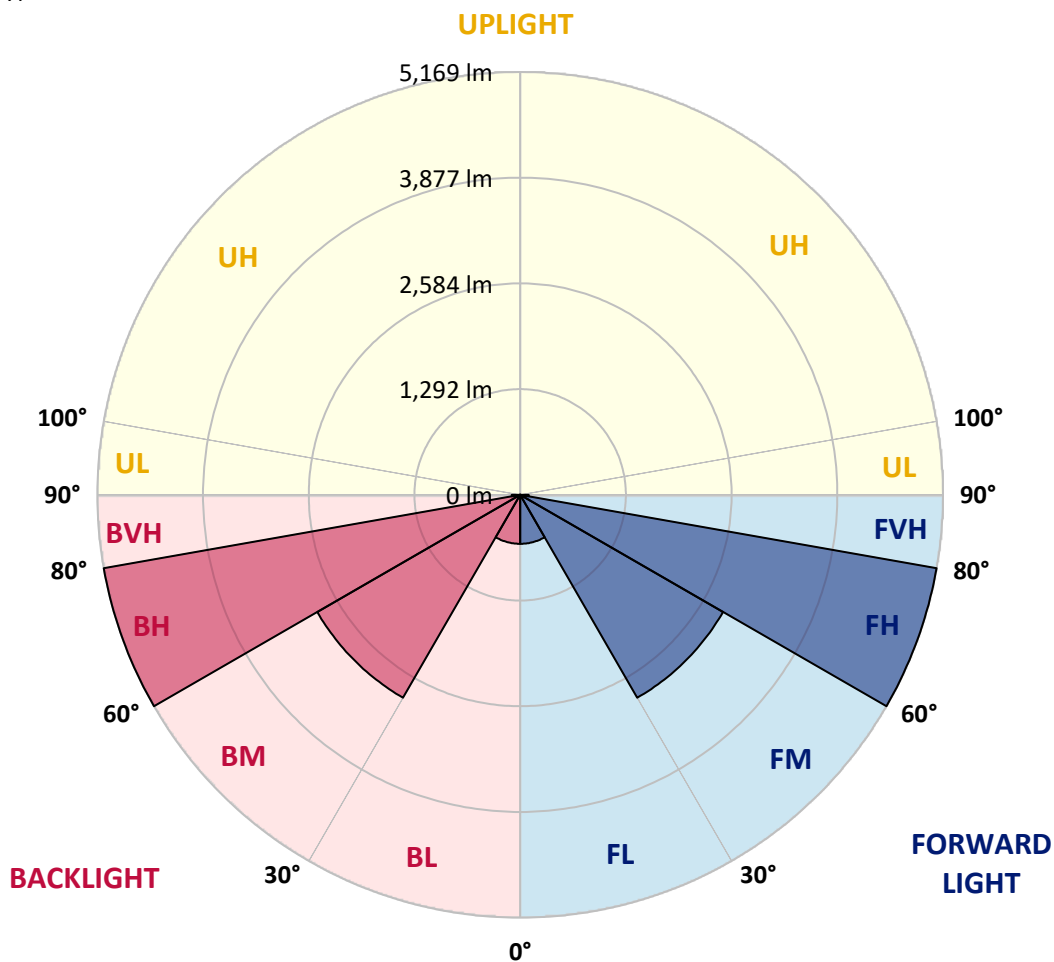


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.0	1.8			
FM (30°-60°)	2863.9	8.7			
FH (60°-80°)	5168.7	15.7			G3/7500
FVH (80°-90°)	102.6	0.3			G2/225
BL (0°-30°)	599.0	1.8	B2/1000		
BM (30°-60°)	2863.9	8.7	B3/5000		
BH (60°-80°)	5168.7	15.7	B5		G3/7500
BVH (80°-90°)	102.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	15531.5	47.1			

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°	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0
5°	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8
10°	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8
15°	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8
20°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
25°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6
30°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
35°	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6
40°	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9
45°	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9
50°	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2
55°	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4
60°	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8
65°	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2
70°	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4
75°	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7
80°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4
85°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9
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°	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0	3134.0
5°	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8	2350.8
10°	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8	1723.8
15°	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8	1227.8
20°	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4	1044.4
25°	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6	1331.6
30°	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5	1632.5
35°	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6	1827.6
40°	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9	2049.9
45°	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9	2245.9
50°	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2
55°	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4	2924.4
60°	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8
65°	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2	6528.2
70°	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4	8304.4
75°	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7	3211.7
80°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4	480.4
85°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)