

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768832_400MP

Luminaire Tested: **GMX40PXXARF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768832_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX40PXXARF
Description: MEDIUM GALLERIA AREA ROUND
Light Source: 400 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 44000 (1 lamp)
Luminaire Lumens: 31149.2 lumens
Efficiency: 70.8%
Efficacy: 68.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

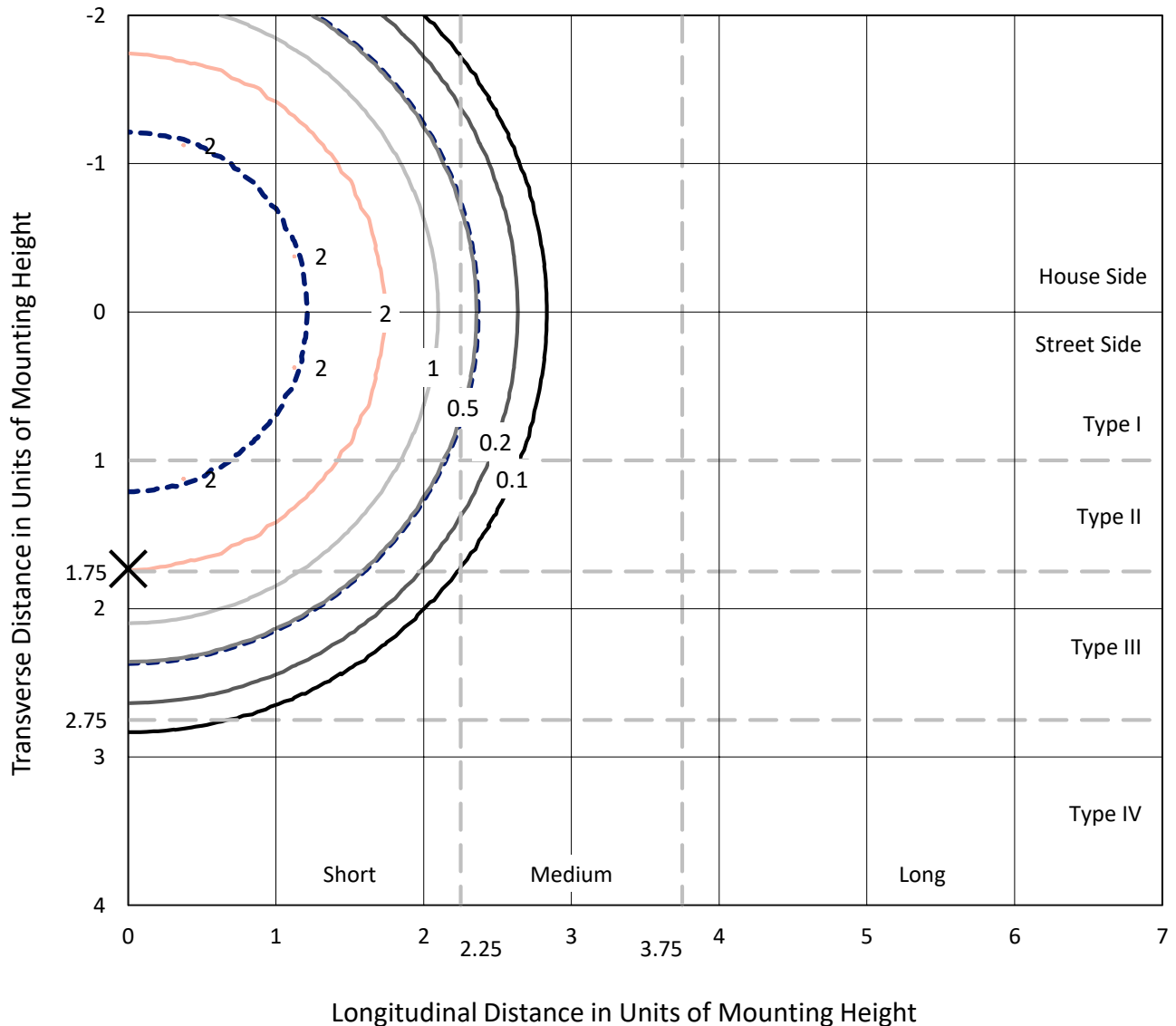
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

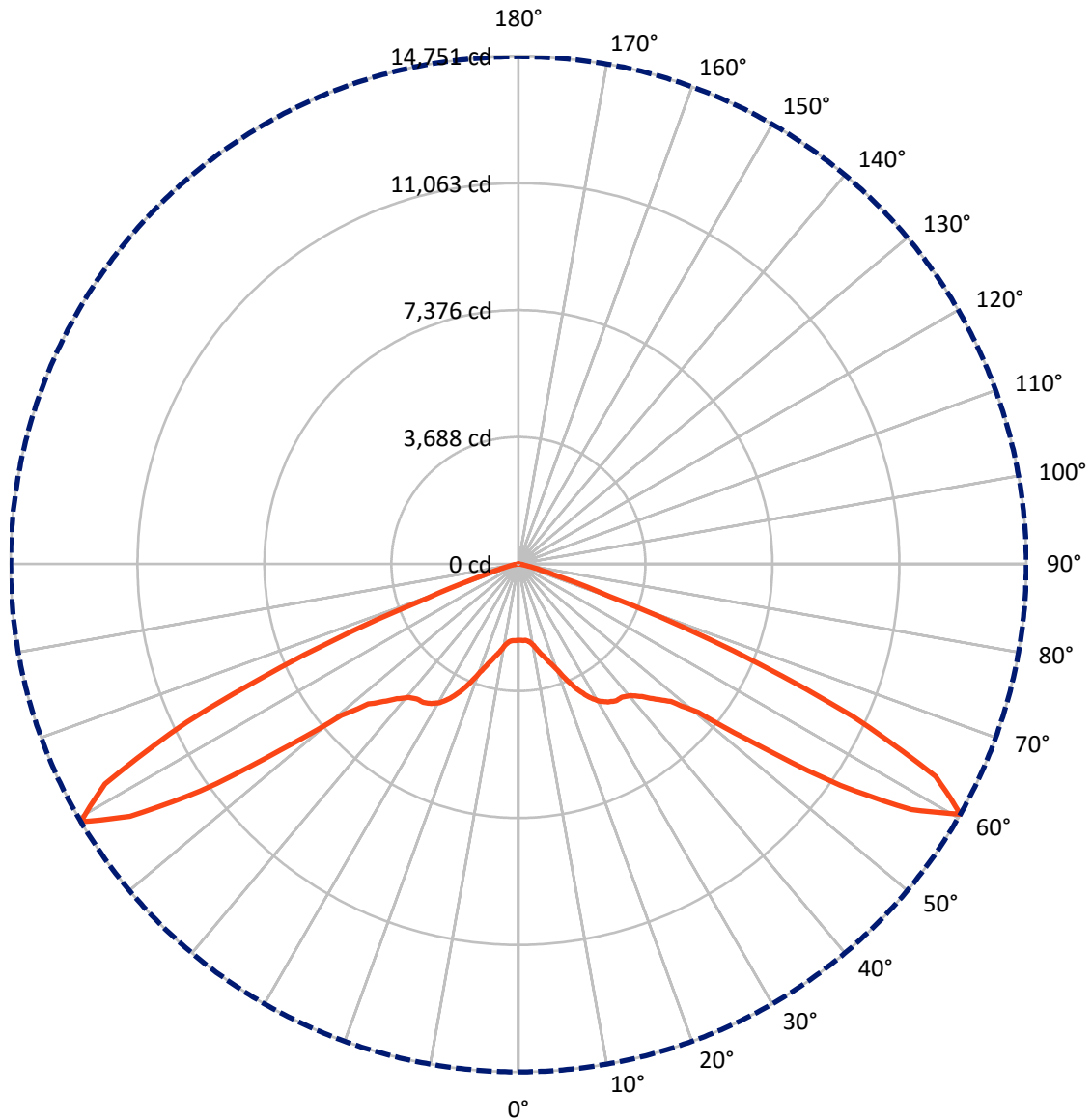
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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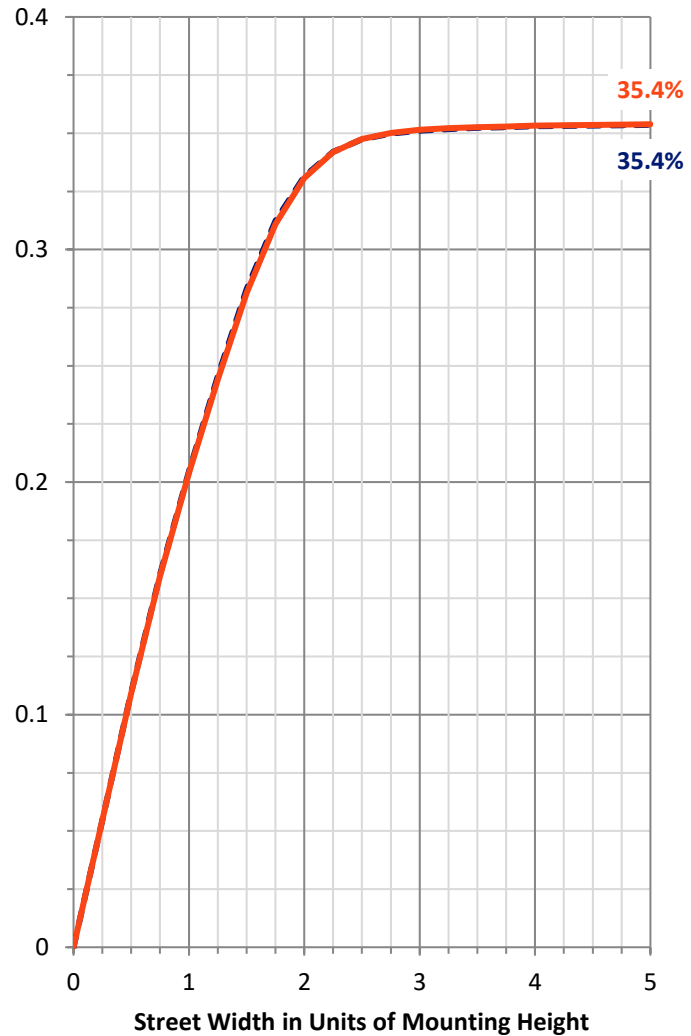
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15574.6	0.0	15574.6
	% Lamp	35.4	0.0	35.4
Street Side	Lumens	15574.6	0.0	15574.6
	% Lamp	35.4	0.0	35.4
Total	Lumens	31149.2	0.0	31149.2
	% Lamp	70.8	0.0	70.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	217.8	0.7	0.5
10°-20°	814.1	2.6	1.9
20°-30°	1884.0	6.0	4.3
30°-40°	3048.0	9.8	6.9
40°-50°	4415.7	14.2	10.0
50°-60°	10021.0	32.2	22.8
60°-70°	9800.6	31.5	22.3
70°-80°	906.1	2.9	2.1
80°-90°	42.0	0.1	0.1
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°	31149.2	100.0	70.8
0°-180°	31149.2	100.0	70.8

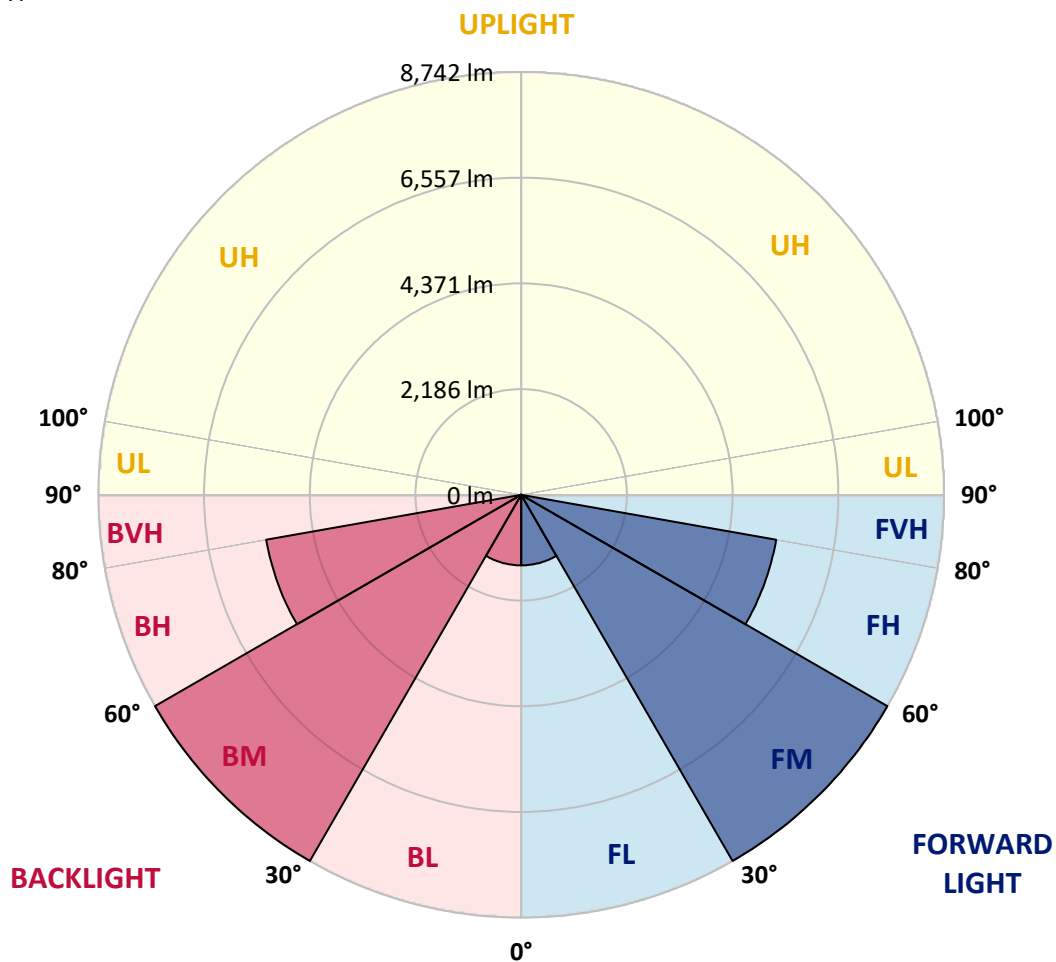


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.9	3.3			
FM	(30°-60°)	8742.3	19.9			
FH	(60°-80°)	5353.3	12.2			G3/7500
FVH	(80°-90°)	21.0	0.0			G1/100
BL	(0°-30°)	1457.9	3.3	B3/2500		
BM	(30°-60°)	8742.3	19.9	B5		
BH	(60°-80°)	5353.3	12.2	B5		G3/7500
BVH	(80°-90°)	21.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		12850.8	29.2			

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	2212.2
2.5°	2223.2
5°	2226.9
7.5°	2275.8
10°	2396.8
12.5°	2608.2
15°	2800.1
17.5°	3034.8
20°	3326.9
22.5°	3700.9
25°	4067.6
27.5°	4381.7
30°	4624.9
32.5°	4777.7
35°	4879.1
37.5°	4902.3
40°	5019.7
42.5°	5266.6
45°	5600.2
47.5°	5962.0
50°	6762.6
52.5°	8779.2
55°	11360.6
57.5°	13455.4
60°	14751.0
62.5°	13603.3
65°	10673.7
67.5°	6757.7
70°	2807.4
72.5°	1081.7
75°	580.6
77.5°	317.8
80°	150.3
82.5°	69.7
85°	9.8
87.5°	0.0
90°	0.0

(END OF REPORT)