

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_450MP

Luminaire Tested: **GMX45PXXARF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768832_450MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX45PXXARF
Description: MEDIUM GALLERIA AREA ROUND
Light Source: 450 WATT PULSE-START CLEAR ED-37 VBU BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 35396.8 lumens
Efficiency: 70.8%
Efficacy: 69.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

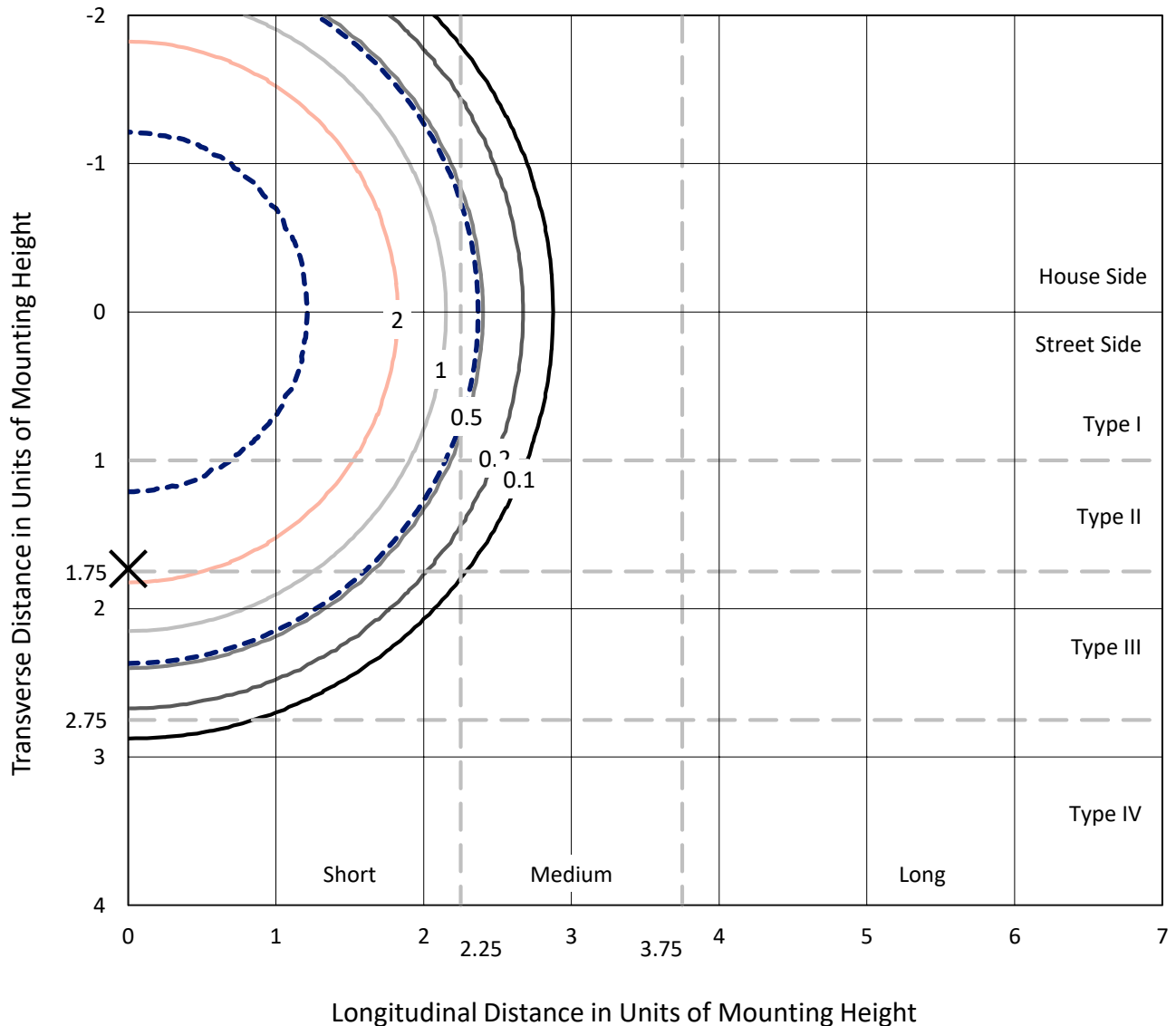
Input Watts (W): 508
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GMX45PXXARF

Iso-Footcandle Lines of Horizontal Illumination

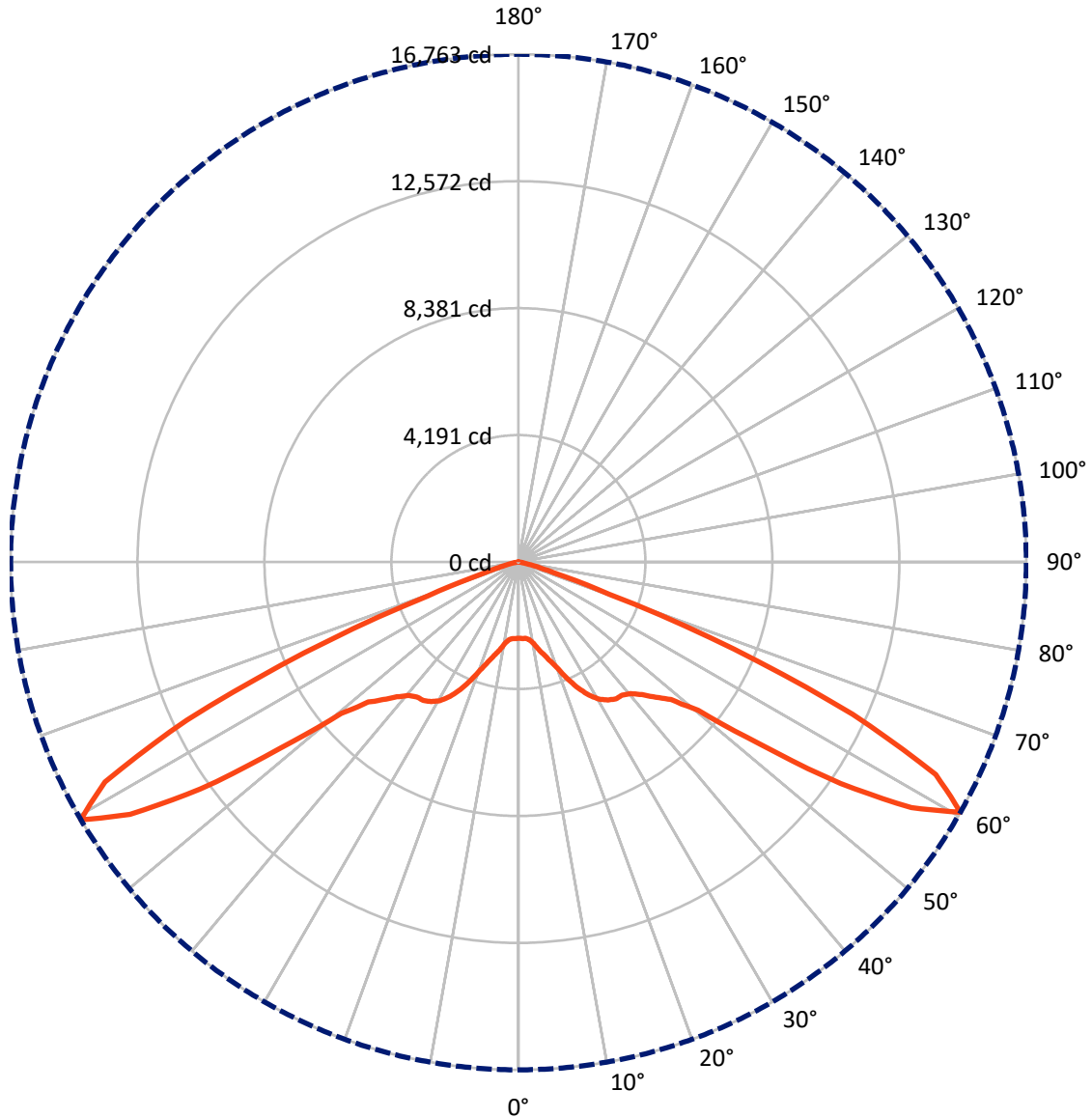
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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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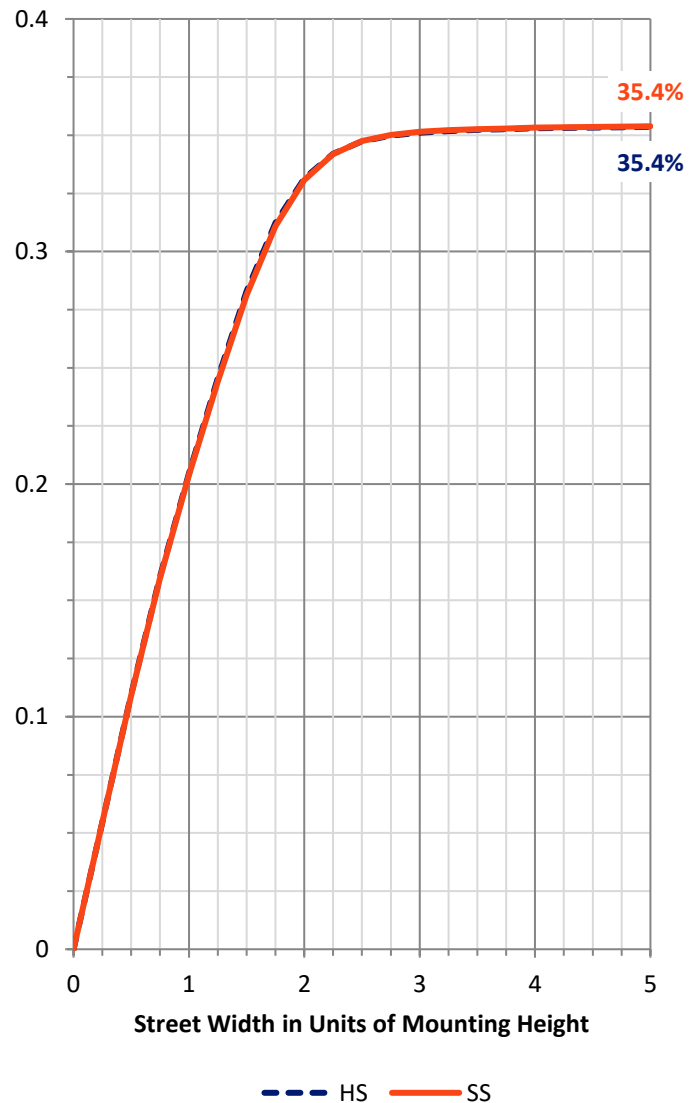
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17698.4	0.0	17698.4
	% Lamp	35.4	0.0	35.4
Street Side	Lumens	17698.4	0.0	17698.4
	% Lamp	35.4	0.0	35.4
Total	Lumens	35396.8	0.0	35396.8
	% Lamp	70.8	0.0	70.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	247.5	0.7	0.5
10°-20°	925.1	2.6	1.9
20°-30°	2140.9	6.0	4.3
30°-40°	3463.6	9.8	6.9
40°-50°	5017.8	14.2	10.0
50°-60°	11387.5	32.2	22.8
60°-70°	11137.1	31.5	22.3
70°-80°	1029.6	2.9	2.1
80°-90°	47.7	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°	35396.8	100.0	70.8
0°-180°	35396.8	100.0	70.8

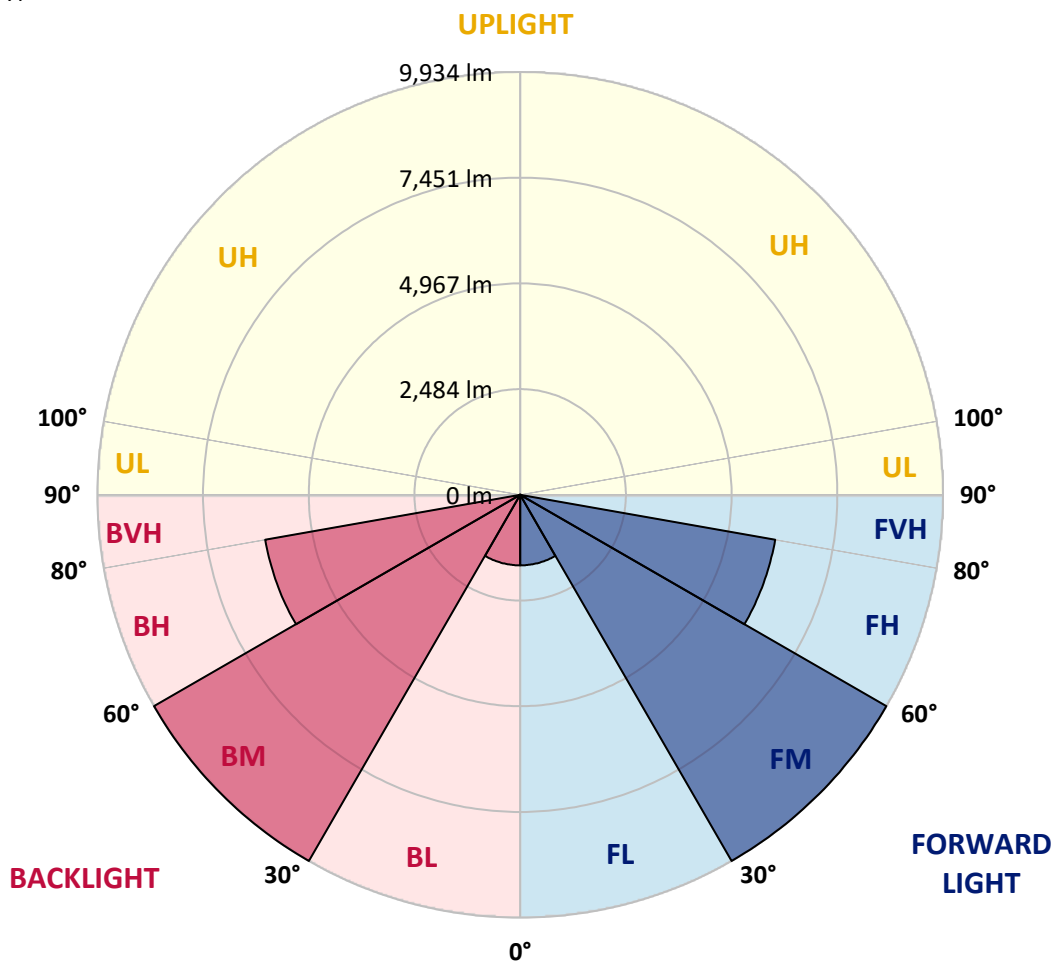


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1656.7	3.3			
FM (30°-60°)	9934.5	19.9			
FH (60°-80°)	6083.3	12.2			G3/7500
FVH (80°-90°)	23.8	0.0			G1/100
BL (0°-30°)	1656.7	3.3	B3/2500		
BM (30°-60°)	9934.5	19.9	B5		
BH (60°-80°)	6083.3	12.2	B5		G3/7500
BVH (80°-90°)	23.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	14603.2	29.2			

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	2513.9
2.5°	2526.4
5°	2530.6
7.5°	2586.1
10°	2723.6
12.5°	2963.9
15°	3181.9
17.5°	3448.6
20°	3780.6
22.5°	4205.6
25°	4622.2
27.5°	4979.2
30°	5255.6
32.5°	5429.2
35°	5544.4
37.5°	5570.8
40°	5704.2
42.5°	5984.7
45°	6363.9
47.5°	6775.0
50°	7684.7
52.5°	9976.4
55°	12909.7
57.5°	15290.3
60°	16762.5
62.5°	15458.3
65°	12129.2
67.5°	7679.2
70°	3190.3
72.5°	1229.2
75°	659.7
77.5°	361.1
80°	170.8
82.5°	79.2
85°	11.1
87.5°	0.0
90°	0.0

(END OF REPORT)