

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: 768835

Luminaire Tested: **GMX91SXXARF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768835
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX91SXXARF
Description: MEDIUM GALLERIA AREA ROUND
Light Source: 1000 WATT HPS CLEAR ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 135000 (1 lamp)
Luminaire Lumens: 95057.5 lumens
Efficiency: 70.4%
Efficacy: 95.1 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
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

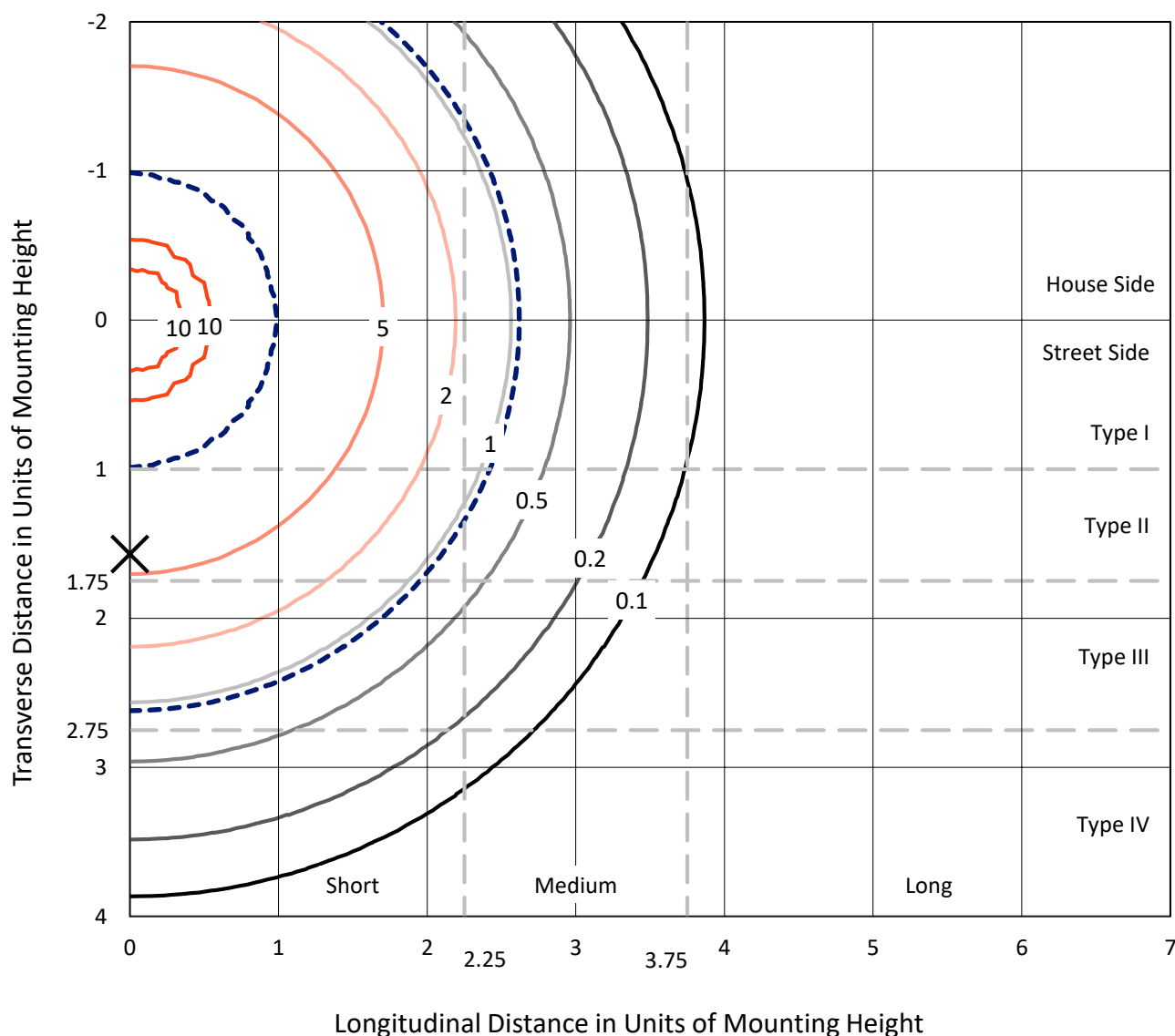


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

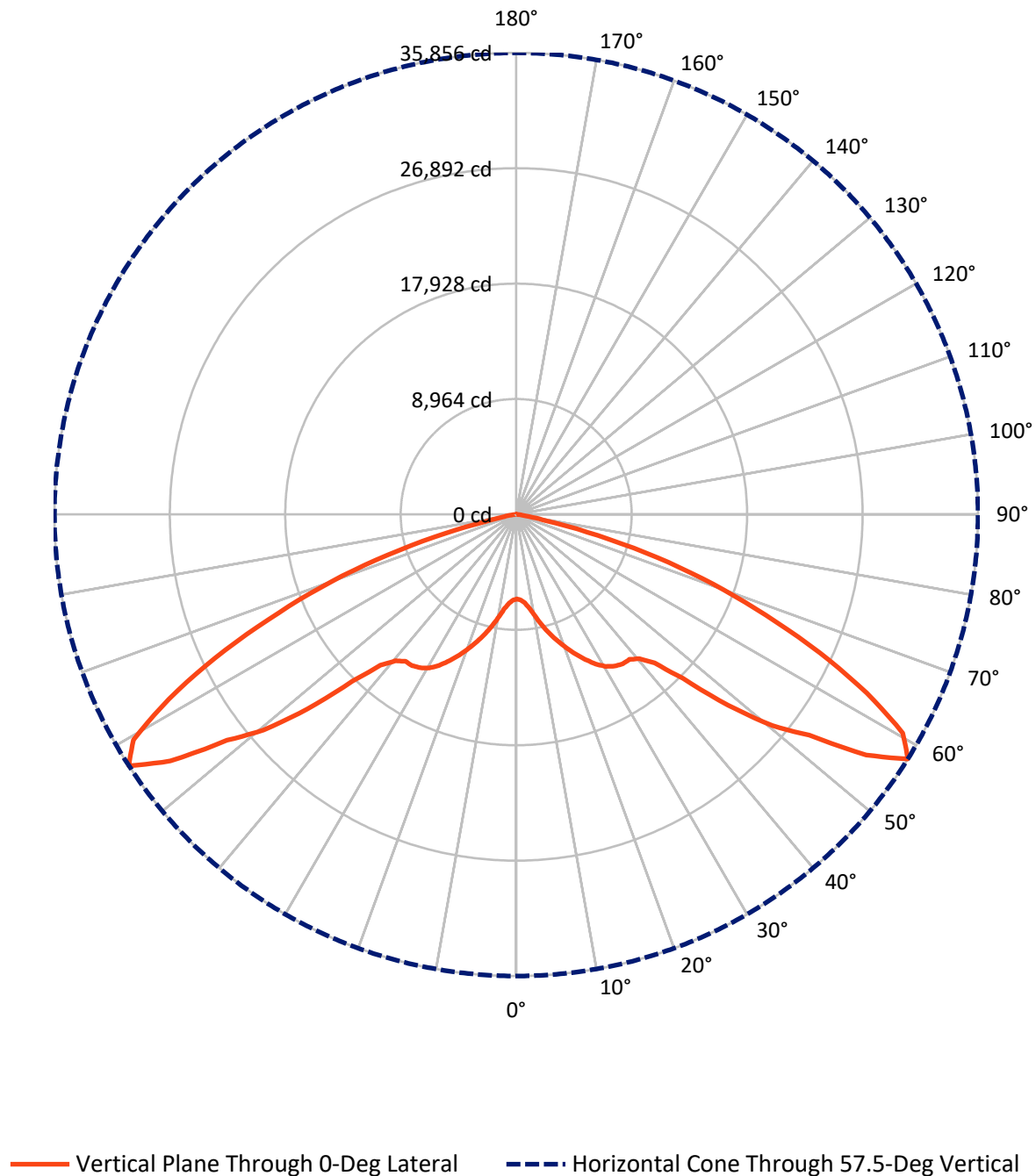


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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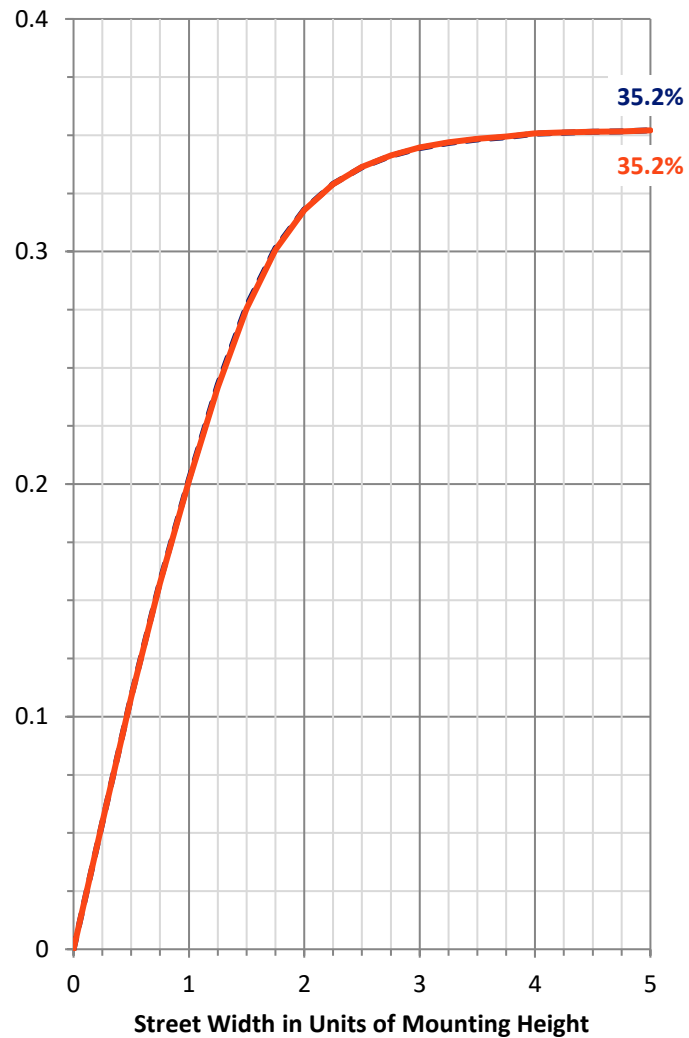
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47528.8	0.0	47528.8
	% Lamp	35.2	0.0	35.2
Street Side	Lumens	47528.8	0.0	47528.8
	% Lamp	35.2	0.0	35.2
Total	Lumens	95057.5	0.0	95057.5
	% Lamp	70.4	0.0	70.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	693.9	0.7	0.5
10°-20°	2748.1	2.9	2.0
20°-30°	5796.3	6.1	4.3
30°-40°	8930.3	9.4	6.6
40°-50°	14905.3	15.7	11.0
50°-60°	28682.8	30.2	21.2
60°-70°	25372.2	26.7	18.8
70°-80°	7611.9	8.0	5.6
80°-90°	316.7	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°	95057.5	100.0	70.4
0°-180°	95057.5	100.0	70.4

Coefficient of Utilization



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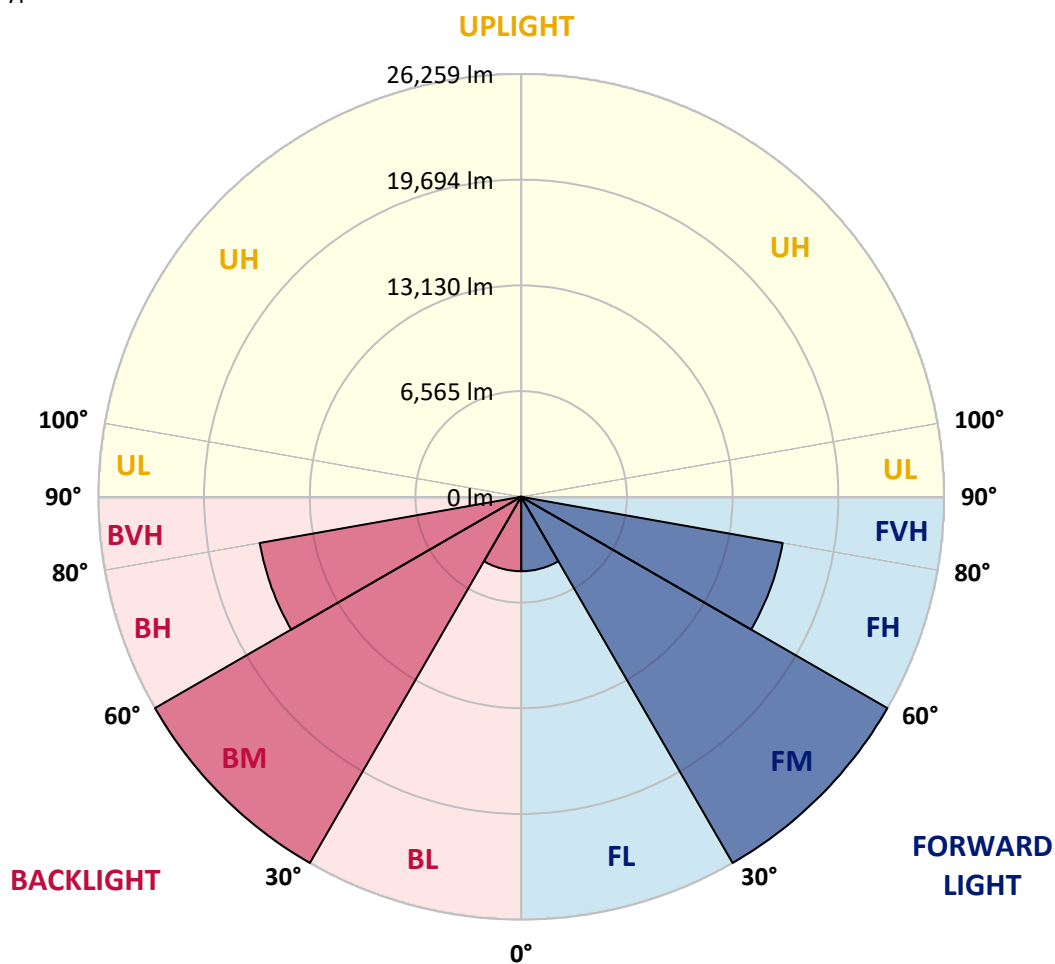
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4619.2	3.4			
FM	(30°-60°)	26259.2	19.5			
FH	(60°-80°)	16492.0	12.2			G5
FVH	(80°-90°)	158.4	0.1			G2/225
BL	(0°-30°)	4619.2	3.4	B4/5000		
BM	(30°-60°)	26259.2	19.5	B5		
BH	(60°-80°)	16492.0	12.2	B5		G5
BVH	(80°-90°)	158.4	0.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		39942.5	29.6			

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	6568
2.5°	6652
5°	6904
7.5°	7345
10°	8014
12.5°	8800
15°	9551
17.5°	10296
20°	11026
22.5°	11773
25°	12479
27.5°	13156
30°	13704
32.5°	14044
35°	14254
37.5°	14285
40°	14730
42.5°	15766
45°	18161
47.5°	22163
50°	25783
52.5°	28479
55°	32982
57.5°	35856
60°	34492
62.5°	30553
65°	25906
67.5°	20904
70°	16219
72.5°	11474
75°	6546
77.5°	2379
80°	1028
82.5°	459
85°	165
87.5°	28
90°	0

(END OF REPORT)