

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: 767827

Luminaire Tested: **GMX91SXXAR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 767827
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GMX91SXXAR
Description: 1000W HPS AREA ROUND
Light Source: 1000W HPS CL ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 135000 (1 lamp)
Luminaire Lumens: 86934.3 lumens
Efficiency: 64.4%
Efficacy: 86.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U3 - G5

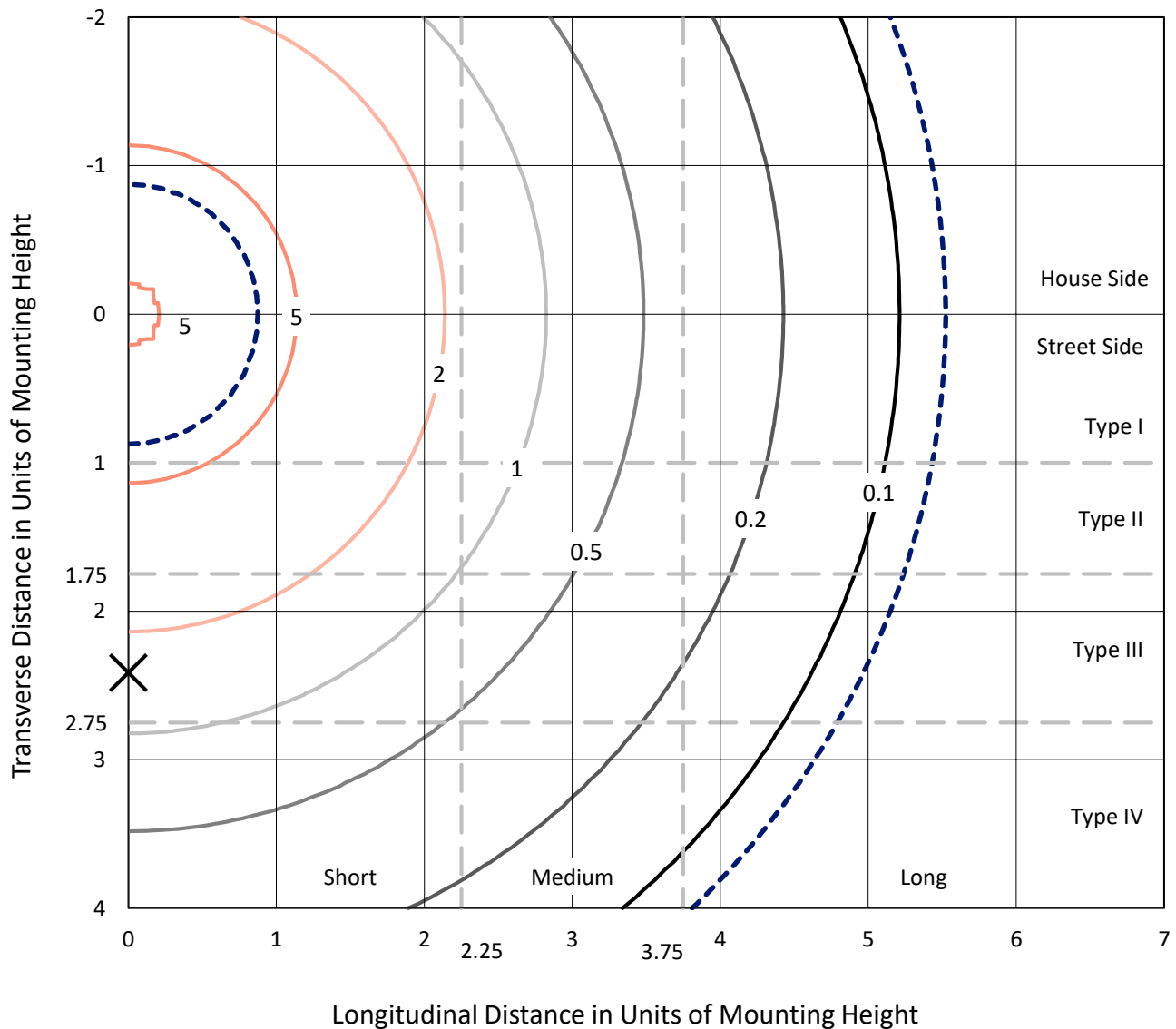
Input Watts (W): 1000
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

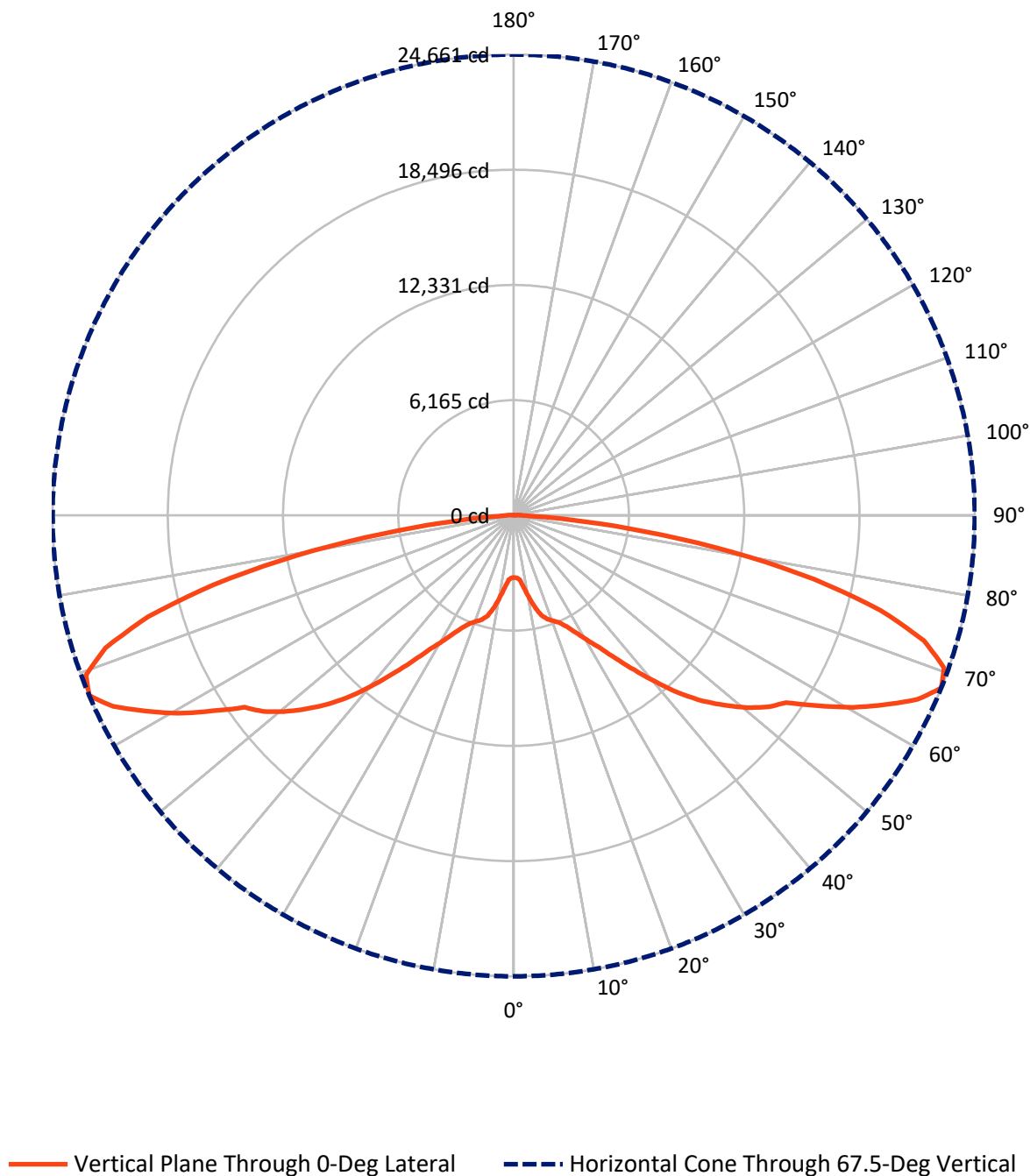
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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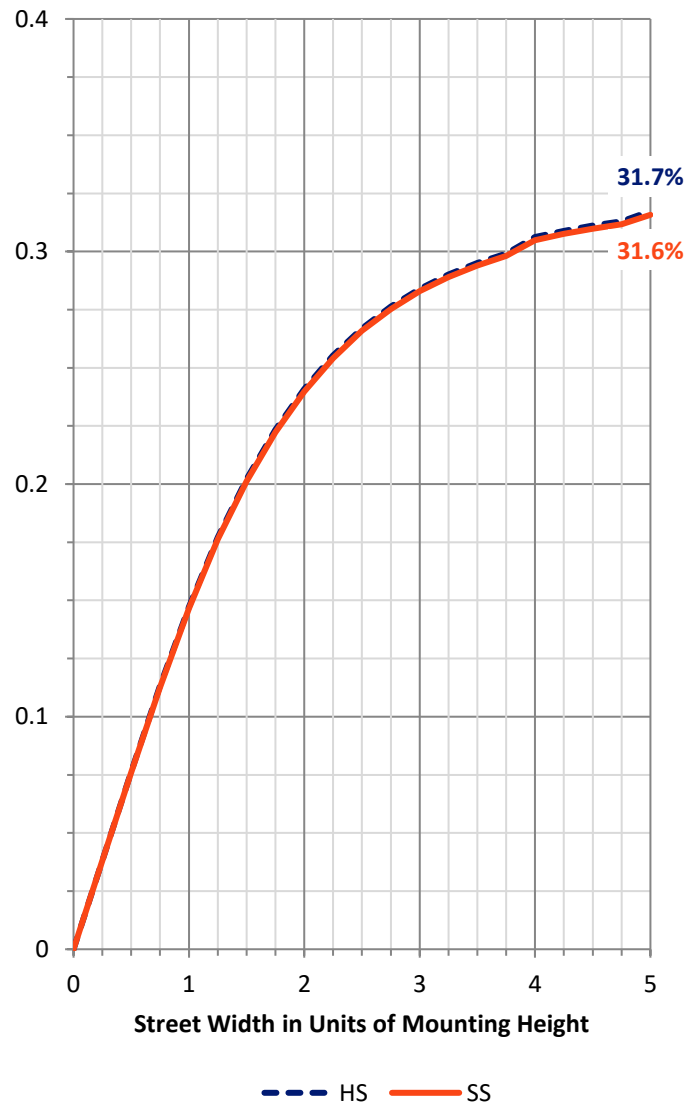
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	43312.1	155.1	43467.2
	% Lamp	32.1	0.1	32.2
Street Side	Lumens	43312.1	155.1	43467.2
	% Lamp	32.1	0.1	32.2
Total	Lumens	86624.2	310.1	86934.3
	% Lamp	64.2	0.2	64.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	363.9	0.4	0.3
10°-20°	1555.0	1.8	1.2
20°-30°	3122.8	3.6	2.3
30°-40°	6023.5	6.9	4.5
40°-50°	10943.4	12.6	8.1
50°-60°	16281.7	18.7	12.1
60°-70°	23185.9	26.7	17.2
70°-80°	20527.4	23.6	15.2
80°-90°	4620.6	5.3	3.4
90°-100°	264.9	0.3	0.2
100°-110°	68.5	0.1	0.1
110°-120°	4.2	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°	86624.2	99.6	64.2
0°-180°	86934.3	100.0	64.4

Coefficient of Utilization



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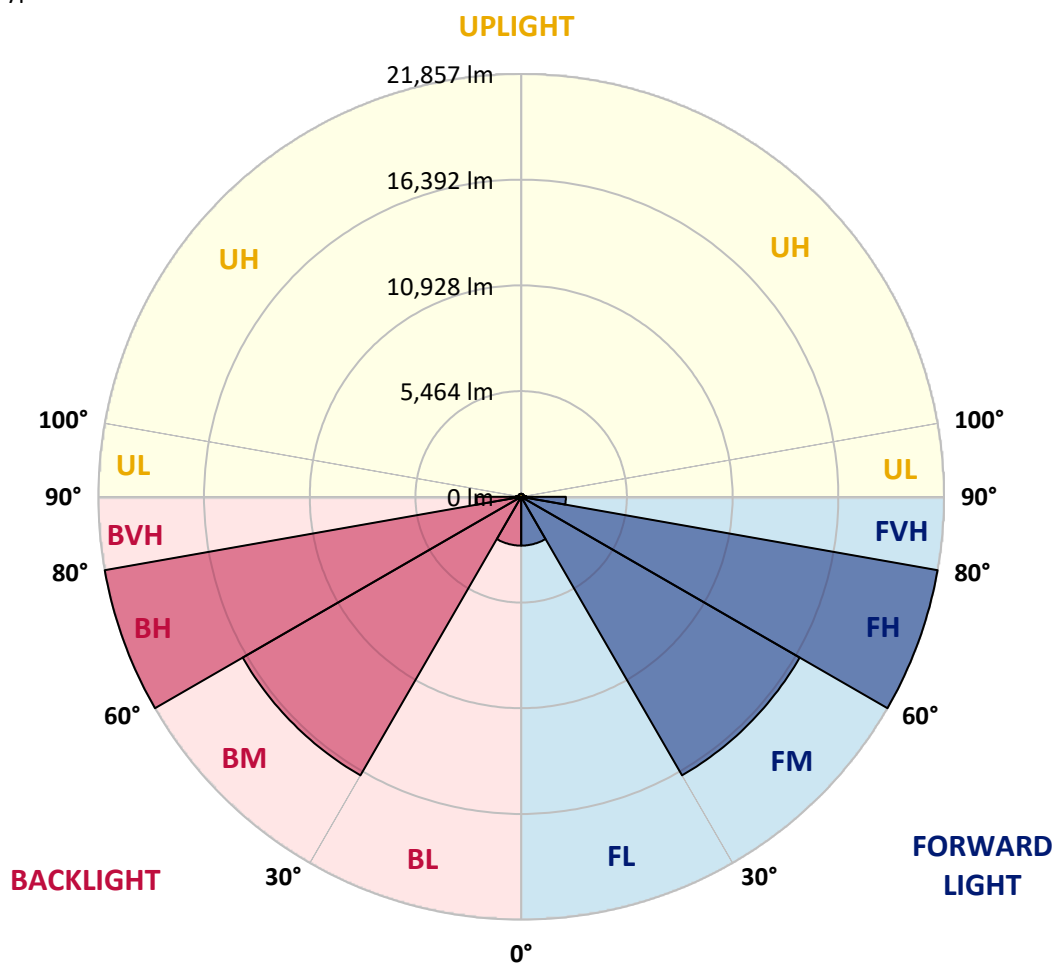
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2520.9	1.9			
FM	(30°-60°)	16624.3	12.3			
FH	(60°-80°)	21856.7	16.2			G5
FVH	(80°-90°)	2310.3	1.7			G5
BL	(0°-30°)	2520.9	1.9	B4/5000		
BM	(30°-60°)	16624.3	12.3	B5		
BH	(60°-80°)	21856.7	16.2	B5		G5
BVH	(80°-90°)	2310.3	1.7			G5
UL	(90°-100°)	264.9	0.2		U3/500	
UH	(100°-180°)	155.1	0.1		U3/500	
Trapped Light		48065.7	35.6			

BUG Rating: B5-U3-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	3324
2.5°	3347
5°	3459
7.5°	3886
10°	4425
12.5°	5025
15°	5542
17.5°	5828
20°	6019
22.5°	6227
25°	6586
27.5°	7097
30°	7732
32.5°	8428
35°	9388
37.5°	10495
40°	11724
42.5°	13004
45°	14156
47.5°	15177
50°	16166
52.5°	17030
55°	17676
57.5°	19203
60°	20854
62.5°	22297
65°	23735
67.5°	24661
70°	24420
72.5°	22949
75°	20270
77.5°	16446
80°	11848
82.5°	7069
85°	3049
87.5°	758
90°	399
95°	225
105°	17
115°	0
125°	0
135°	0
145°	0
155°	0
165°	0



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CANDELA DISTRIBUTION (continued):

	0°
175°	0
180°	0

(END OF REPORT)