

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: 768935

Luminaire Tested: **ARC25SXX5CX6X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768935
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC25SXX5CX6X
Description: CUTOFF GENERATIONS POST TOP TYPE 5
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 18409.7 lumens
Efficiency: 66.9%
Efficacy: 73.6 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U3 - G1

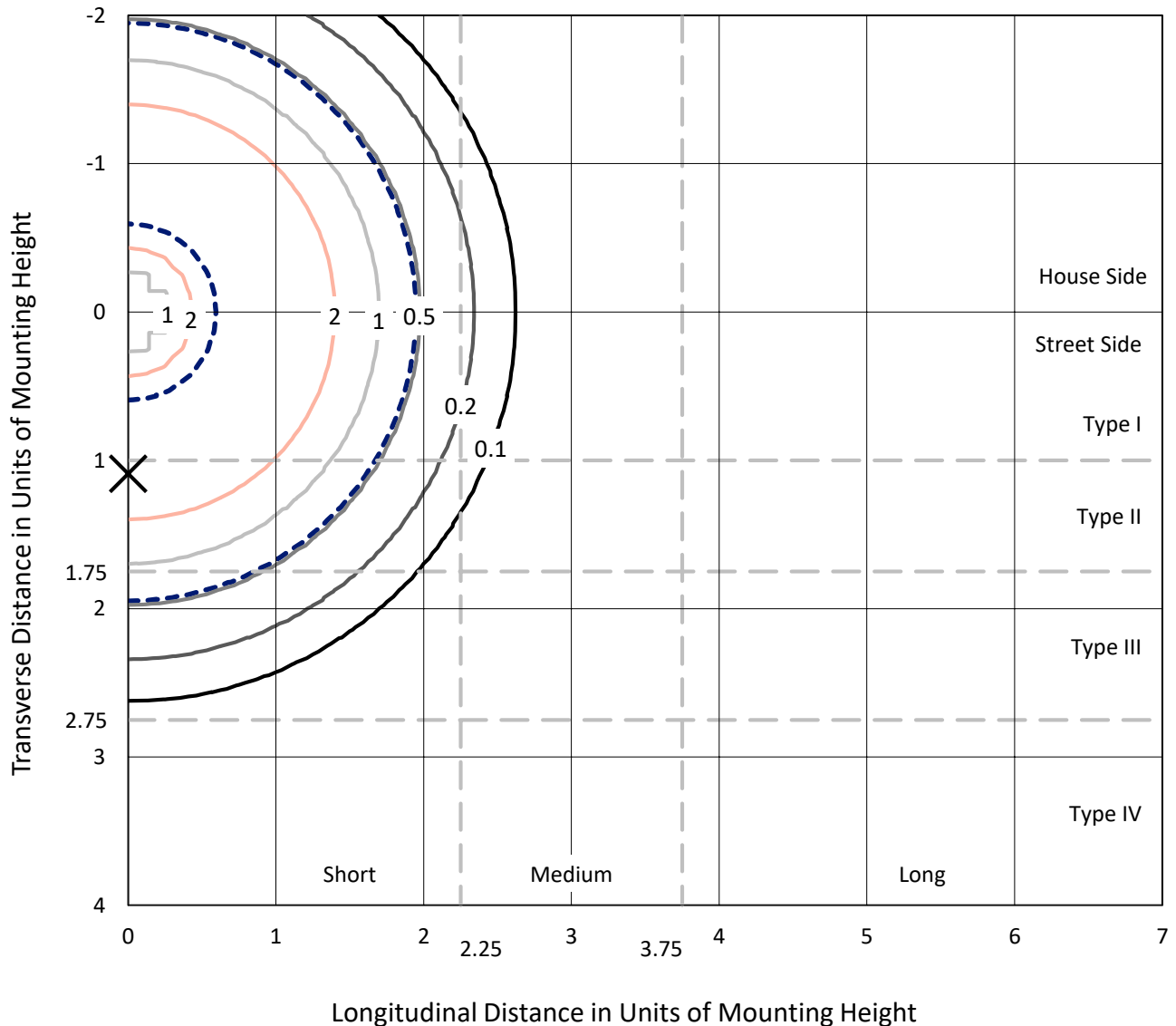
Input Watts (W): 250
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

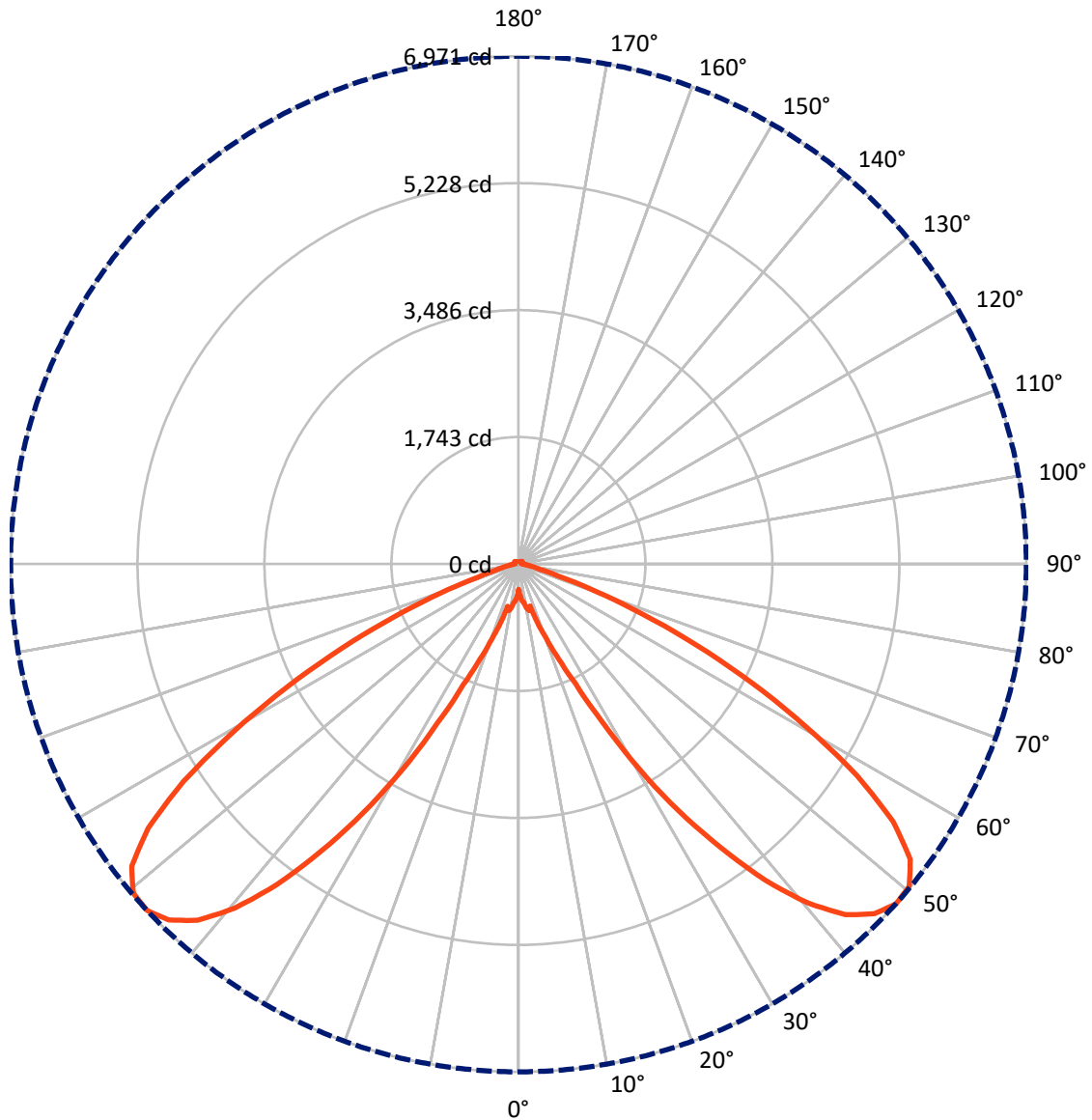
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 47.5-Deg Vertical

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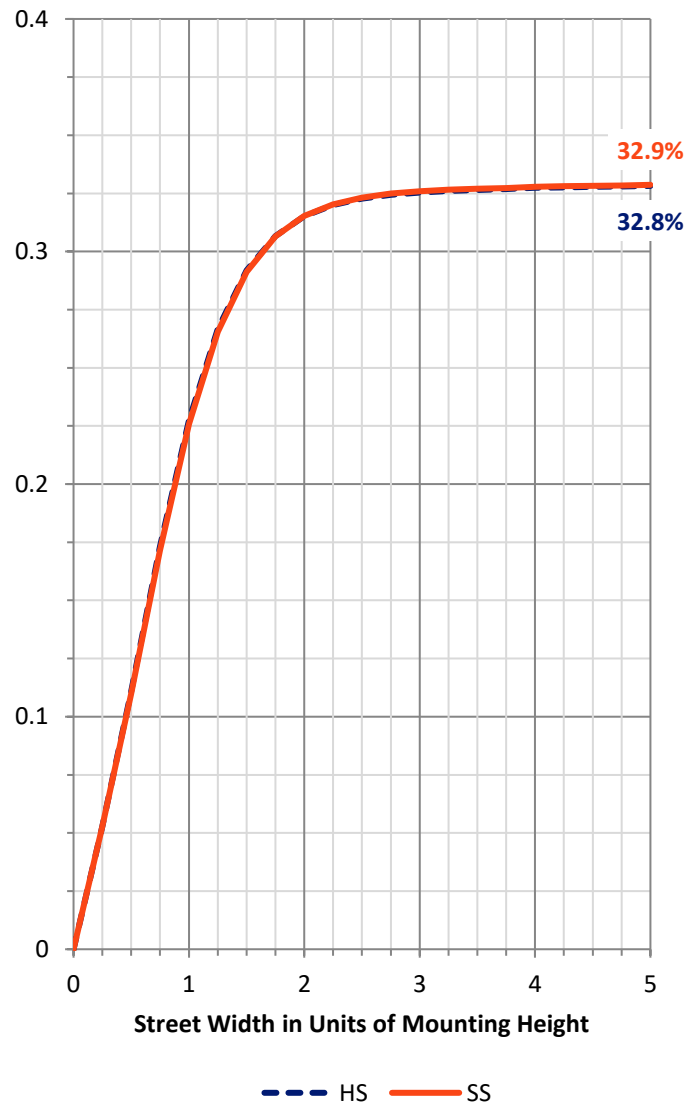
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9070.9	133.9	9204.9
	% Lamp	33.0	0.5	33.5
Street Side	Lumens	9070.9	133.9	9204.9
	% Lamp	33.0	0.5	33.5
Total	Lumens	18141.9	267.8	18409.7
	% Lamp	66.0	1.0	66.9

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	50.1	0.3	0.2
10°-20°	215.4	1.2	0.8
20°-30°	938.9	5.1	3.4
30°-40°	3022.6	16.4	11.0
40°-50°	5224.0	28.4	19.0
50°-60°	5407.7	29.4	19.7
60°-70°	2694.8	14.6	9.8
70°-80°	477.2	2.6	1.7
80°-90°	111.2	0.6	0.4
90°-100°	57.3	0.3	0.2
100°-110°	52.1	0.3	0.2
110°-120°	53.6	0.3	0.2
120°-130°	49.8	0.3	0.2
130°-140°	35.0	0.2	0.1
140°-150°	16.0	0.1	0.1
150°-160°	3.2	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	18141.9	98.5	66.0
0°-180°	18409.7	100.0	66.9



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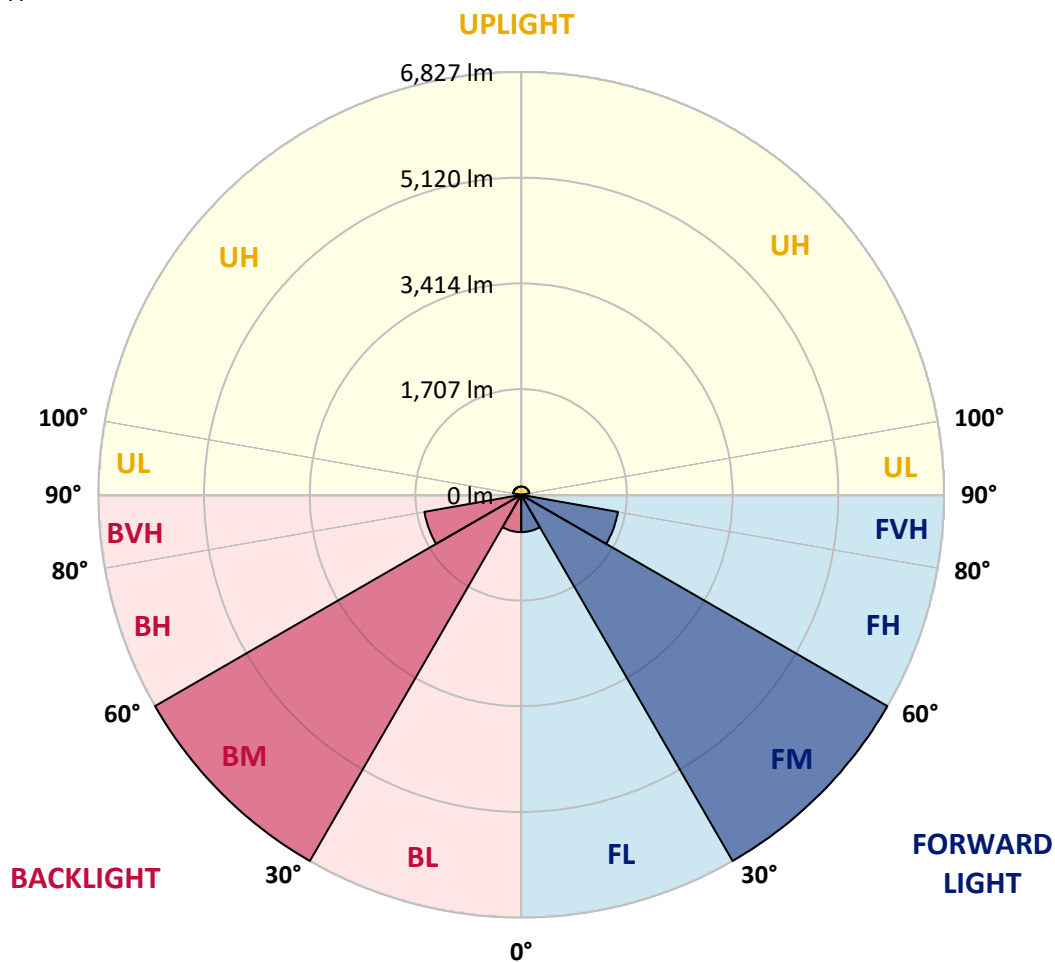
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.2	2.2			
FM	(30°-60°)	6827.1	24.8			
FH	(60°-80°)	1586.0	5.8			G1/1800
FVH	(80°-90°)	55.6	0.2			G1/100
BL	(0°-30°)	602.2	2.2	B2/1000		
BM	(30°-60°)	6827.1	24.8	B4/8500		
BH	(60°-80°)	1586.0	5.8	B3/2500		G1/1800
BVH	(80°-90°)	55.6	0.2			G1/100
UL	(90°-100°)	57.3	0.2		U3/500	
UH	(100°-180°)	133.9	0.5		U3/500	
Trapped Light		9090.3	33.1			

BUG Rating: B4-U3-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	345
2.5°	426
5°	504
7.5°	532
10°	617
12.5°	654
15°	598
17.5°	848
20°	1086
22.5°	1414
25°	1818
27.5°	2457
30°	3263
32.5°	4040
35°	4779
37.5°	5511
40°	6119
42.5°	6581
45°	6849
47.5°	6971
50°	6953
52.5°	6735
55°	6241
57.5°	5480
60°	4542
62.5°	3596
65°	2678
67.5°	1834
70°	1137
72.5°	595
75°	343
77.5°	229
80°	164
82.5°	124
85°	92
87.5°	78
90°	64
95°	49
105°	47
115°	54
125°	61
135°	46
145°	28
155°	0
165°	0



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CANDELA DISTRIBUTION (continued):

	0°
175°	0
180°	0

(END OF REPORT)