

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: 768936

Luminaire Tested: **ARC15SXX5CX6X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768936
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15SXX5CX6X
Description: CUTOFF GENERATIONS POST TOP TYPE V
Light Source: 150 WATT HPS CLEAR ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 12102.2 lumens
Efficiency: 75.6%
Efficacy: 80.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B4 - U2 - G2

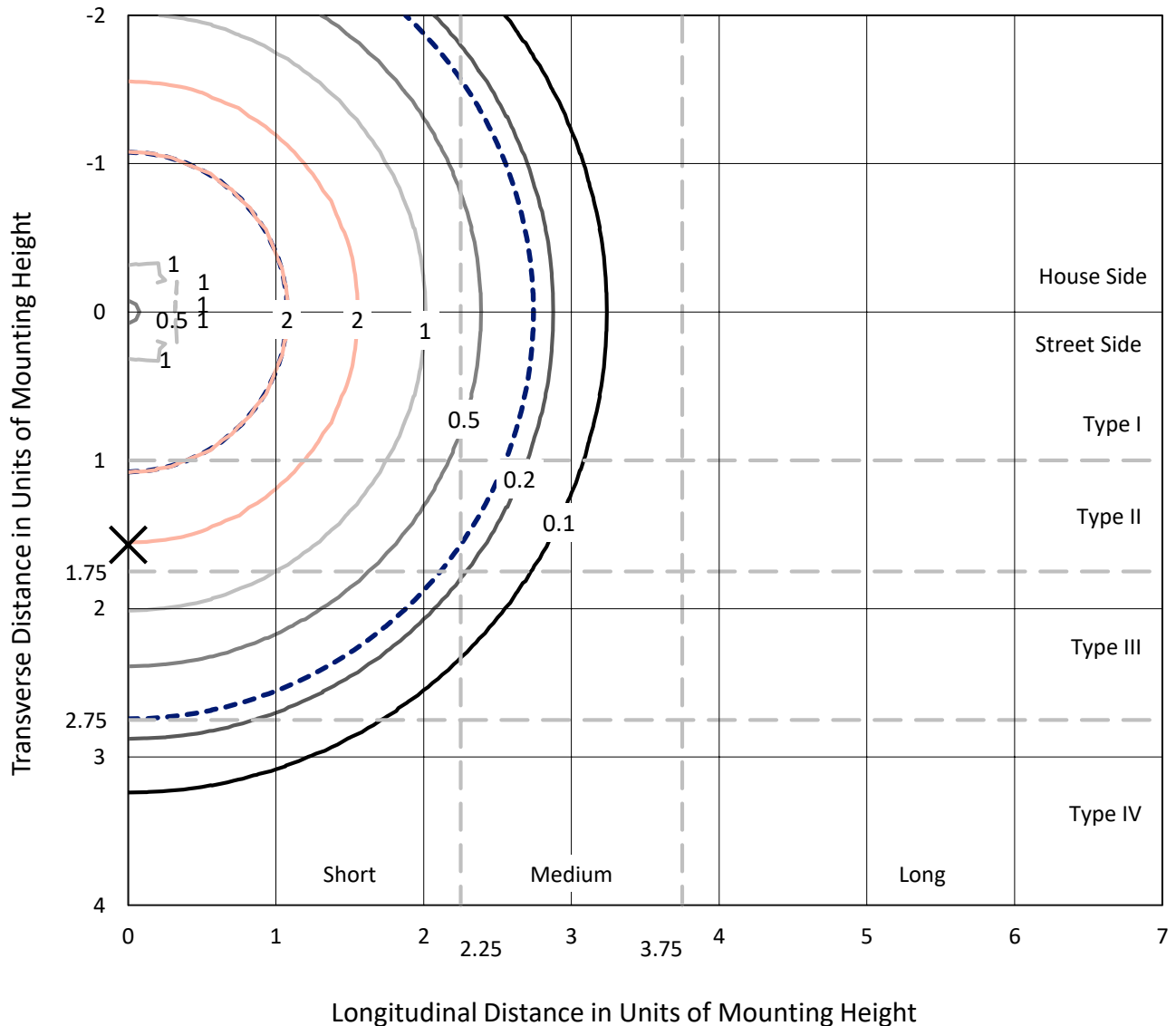
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

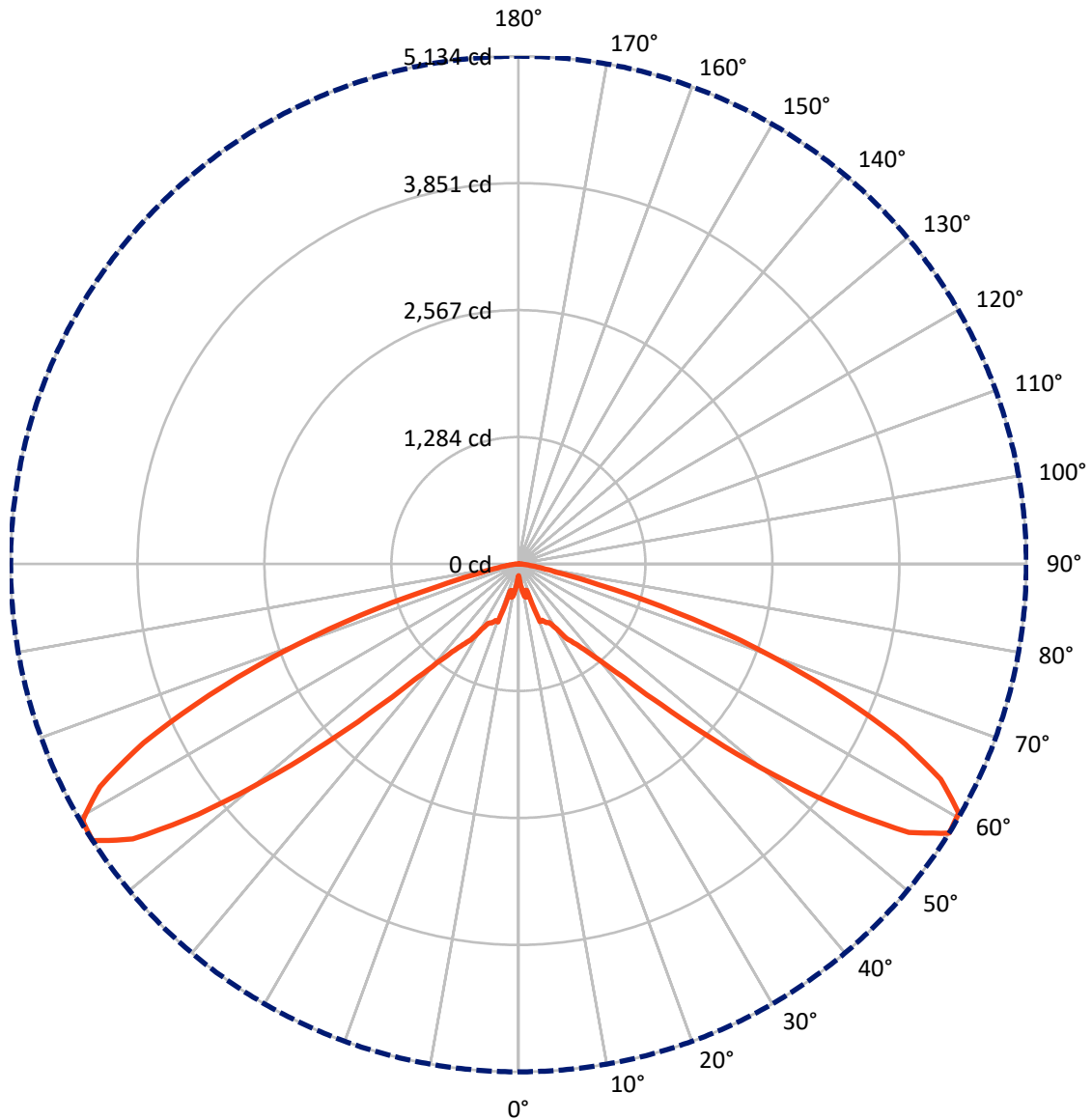
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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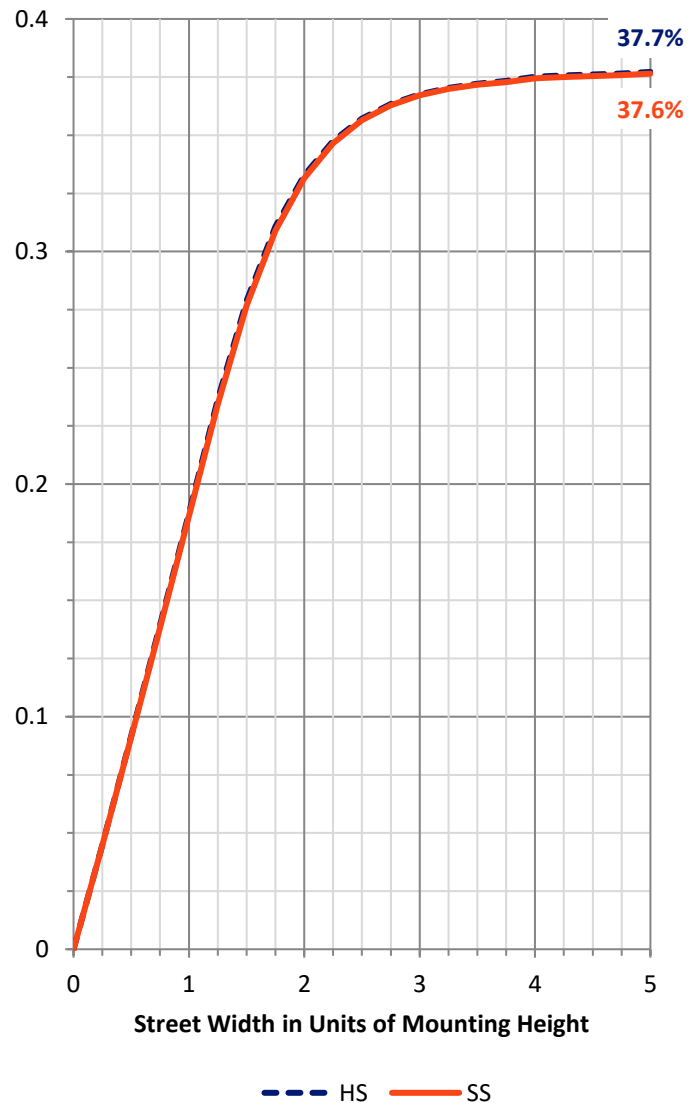
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6041.0	10.1	6051.1
	% Lamp	37.8	0.1	37.8
Street Side	Lumens	6041.0	10.1	6051.1
	% Lamp	37.8	0.1	37.8
Total	Lumens	12082.0	20.2	12102.2
	% Lamp	75.5	0.1	75.6

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.3	0.2	0.1
10°-20°	99.8	0.8	0.6
20°-30°	306.5	2.5	1.9
30°-40°	638.2	5.3	4.0
40°-50°	1681.5	13.9	10.5
50°-60°	4113.0	34.0	25.7
60°-70°	4009.5	33.1	25.1
70°-80°	1120.3	9.3	7.0
80°-90°	89.9	0.7	0.6
90°-100°	13.4	0.1	0.1
100°-110°	5.8	0.0	0.0
110°-120°	1.5	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°	12082.0	99.8	75.5
0°-180°	12102.2	100.0	75.6



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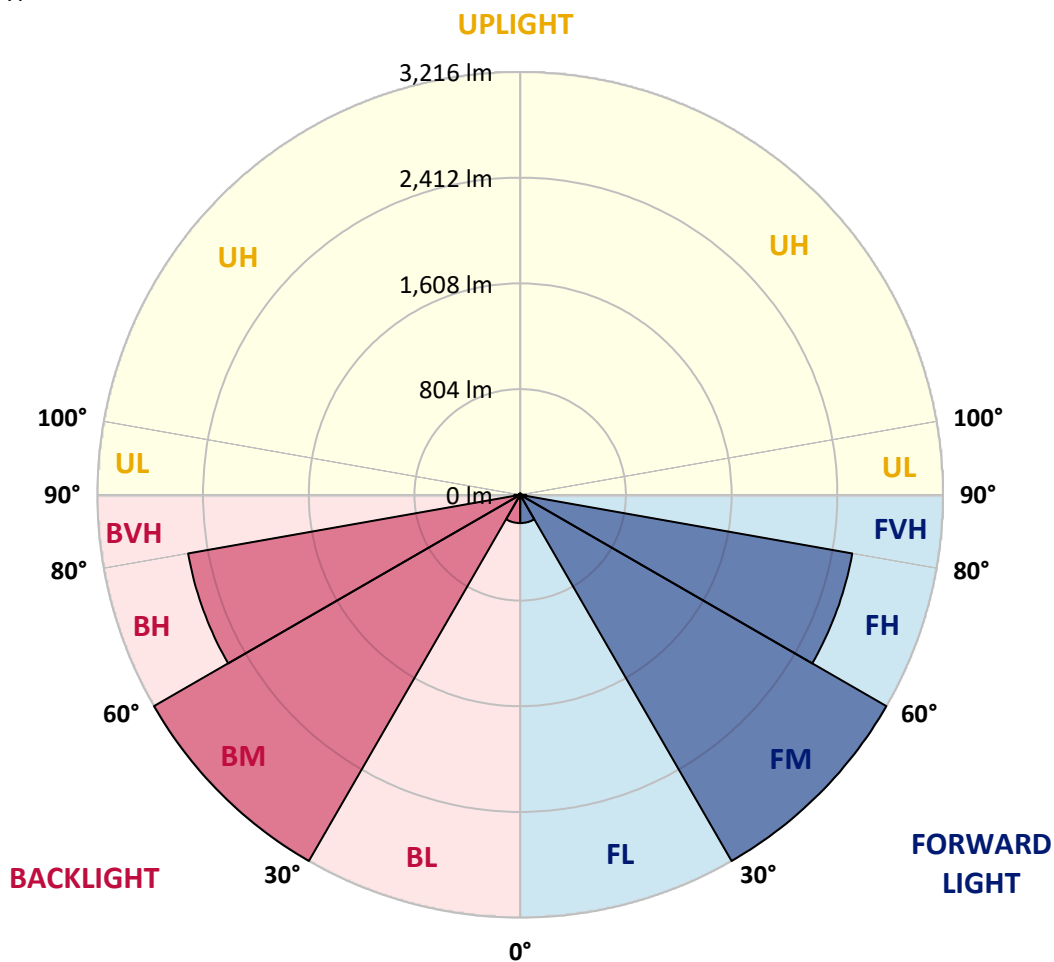
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.8	1.3			
FM	(30°-60°)	3216.3	20.1			
FH	(60°-80°)	2564.9	16.0			G2/5000
FVH	(80°-90°)	45.0	0.3			G1/100
BL	(0°-30°)	214.8	1.3	B1/500		
BM	(30°-60°)	3216.3	20.1	B3/5000		
BH	(60°-80°)	2564.9	16.0	B4/5000		G2/5000
BVH	(80°-90°)	45.0	0.3			G1/100
UL	(90°-100°)	13.4	0.1		U2/50	
UH	(100°-180°)	10.1	0.1		U2/50	
Trapped Light		3897.8	24.4			

BUG Rating: B4-U2-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	118
2.5°	142
5°	200
7.5°	267
10°	330
12.5°	345
15°	276
17.5°	286
20°	622
22.5°	617
25°	655
27.5°	671
30°	760
32.5°	900
35°	987
37.5°	1111
40°	1295
42.5°	1578
45°	2030
47.5°	2640
50°	3352
52.5°	4111
55°	4788
57.5°	5134
60°	5113
62.5°	4792
65°	4199
67.5°	3398
70°	2558
72.5°	1670
75°	836
77.5°	381
80°	212
82.5°	116
85°	63
87.5°	35
90°	21
95°	10
105°	6
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)