

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: 768861

Luminaire Tested: **ARC25SXX55X4XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768861
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC25SXX55X4XR
Description: GENERATIONS POST TOP
W/TALL SPUN TOP
Light Source: 250 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 27500 (1 lamp)
Luminaire Lumens: 21169.6 lumens
Efficiency: 77.0%
Efficacy: 84.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U5 - G5

Input Watts (W): 250
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



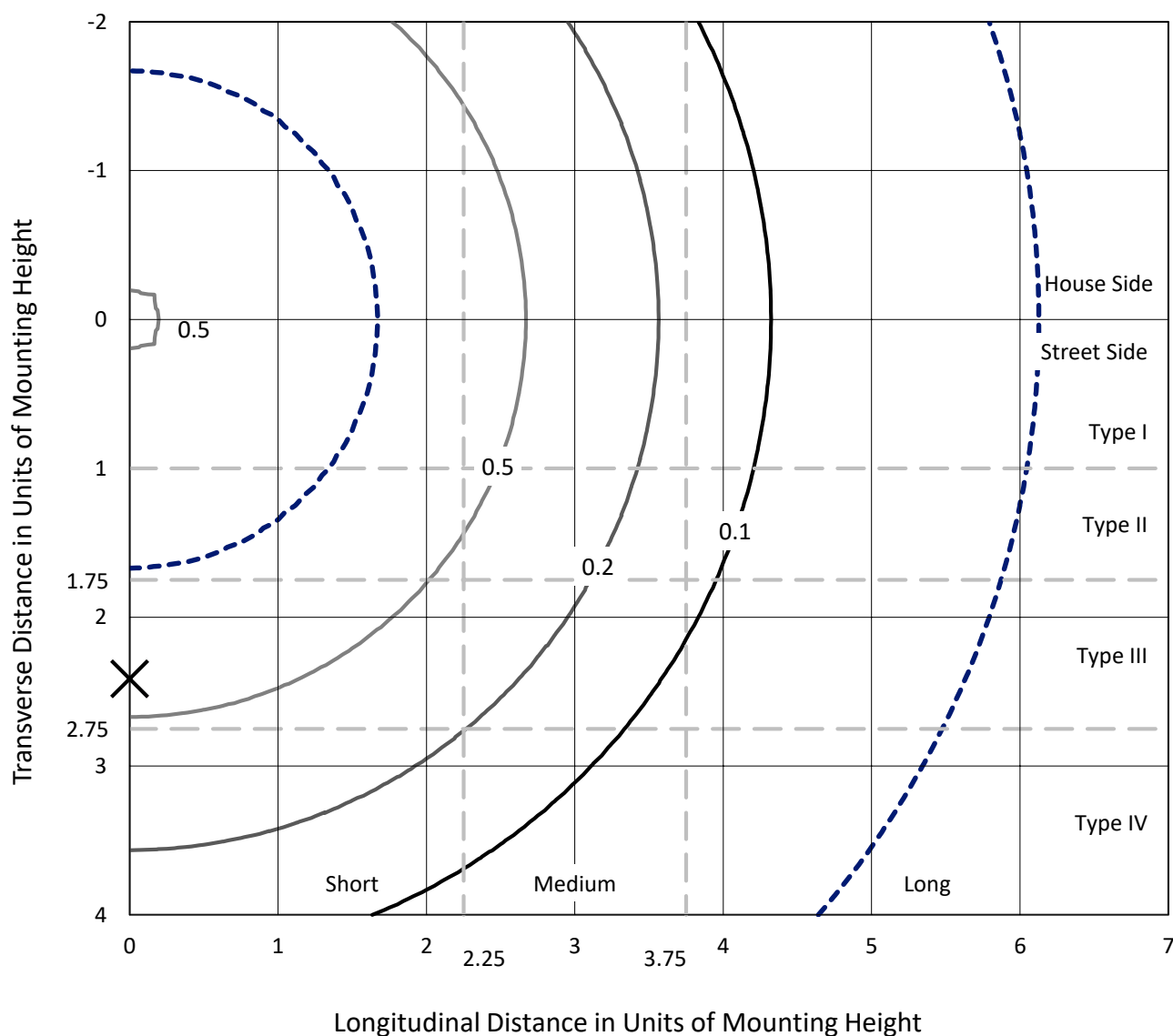
REPORT NUMBER: 768861

CATALOG NUMBER: ARC25SXX55X4XR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

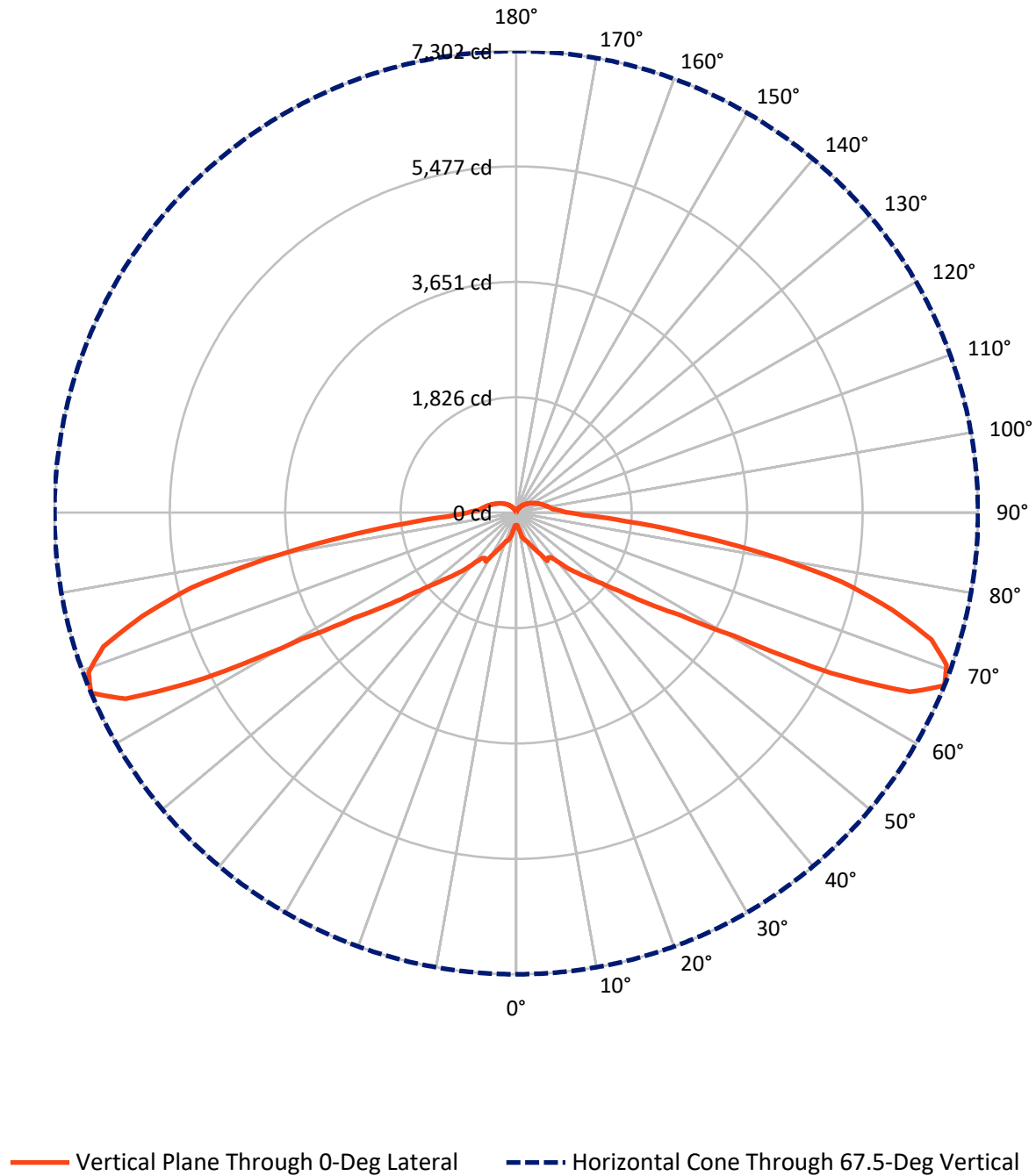


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: 768861

CATALOG NUMBER: ARC25SXX55X4XR

Luminous Intensity Polar Plot



REPORT NUMBER: 768861

CATALOG NUMBER: ARC25SXX55X4XR

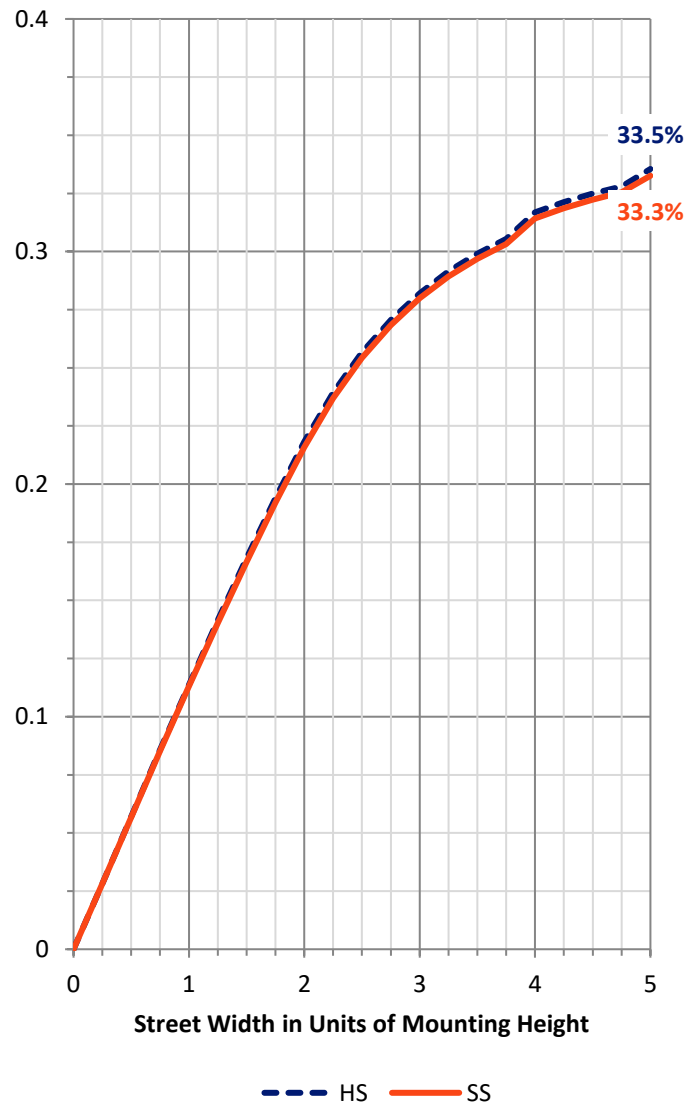
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9605.5	979.3	10584.8
	% Lamp	34.9	3.6	38.5
Street Side	Lumens	9605.5	979.3	10584.8
	% Lamp	34.9	3.6	38.5
Total	Lumens	19211.1	1958.5	21169.6
	% Lamp	69.9	7.1	77.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.5	0.1	0.1
10°-20°	119.3	0.6	0.4
20°-30°	285.8	1.4	1.0
30°-40°	563.5	2.7	2.0
40°-50°	1072.0	5.1	3.9
50°-60°	2378.7	11.2	8.6
60°-70°	6301.4	29.8	22.9
70°-80°	6306.7	29.8	22.9
80°-90°	2161.2	10.2	7.9
90°-100°	673.1	3.2	2.4
100°-110°	483.2	2.3	1.8
110°-120°	344.7	1.6	1.3
120°-130°	229.9	1.1	0.8
130°-140°	138.8	0.7	0.5
140°-150°	69.9	0.3	0.3
150°-160°	24.9	0.1	0.1
160°-170°	4.6	0.0	0.0
170°-180°	0.2	0.0	0.0
0°-90°	19211.1	90.7	69.9
0°-180°	21169.6	100.0	77.0

Coefficient of Utilization



REPORT NUMBER: 768861

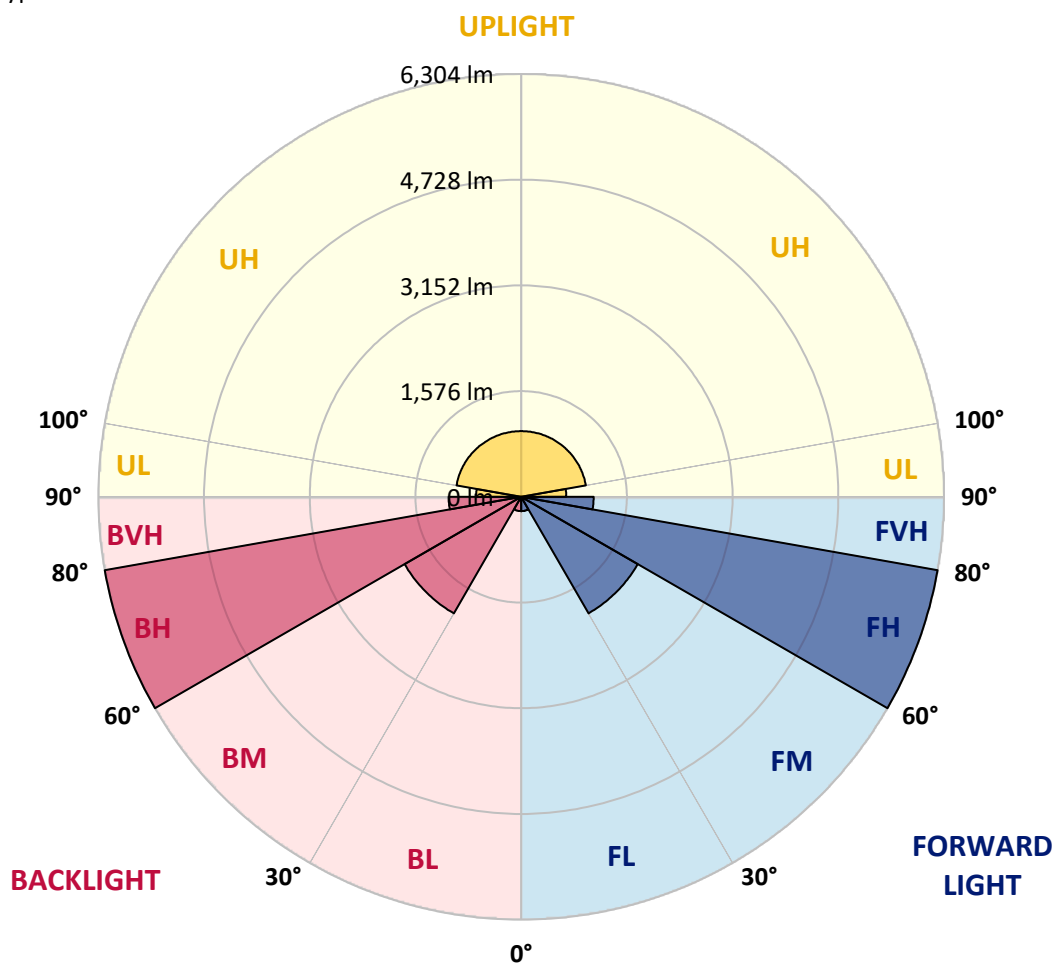
CATALOG NUMBER: ARC25SXX55X4XR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.8	0.8			
FM	(30°-60°)	2007.1	7.3			
FH	(60°-80°)	6304.0	22.9			G3/7500
FVH	(80°-90°)	1080.6	3.9			G5
BL	(0°-30°)	213.8	0.8	B1/500		
BM	(30°-60°)	2007.1	7.3	B2/2500		
BH	(60°-80°)	6304.0	22.9	B5		G3/7500
BVH	(80°-90°)	1080.6	3.9			G5
UL	(90°-100°)	673.1	2.4		U4/1000	
UH	(100°-180°)	979.3	3.6		U4/1000	
Trapped Light		6330.4	23.0			

BUG Rating: B5-U5-G5

Type V Short





REPORT NUMBER: 768861

CATALOG NUMBER: ARC25SXX55X4XR

CANDELA DISTRIBUTION (FULL):

0°	
0°	209
2.5°	199
5°	199
7.5°	247
10°	282
12.5°	376
15°	428
17.5°	460
20°	481
22.5°	534
25°	601
27.5°	674
30°	774
32.5°	908
35°	872
37.5°	897
40°	1026
42.5°	1200
45°	1363
47.5°	1542
50°	1760
52.5°	2077
55°	2537
57.5°	3057
60°	3949
62.5°	5584
65°	6837
67.5°	7302
70°	7219
72.5°	6865
75°	6138
77.5°	5267
80°	4025
82.5°	2746
85°	1737
87.5°	1051
90°	786
95°	582
105°	451
115°	343
125°	252
135°	178
145°	109
155°	49
165°	8



REPORT NUMBER: 768861

CATALOG NUMBER: ARC25SXX55X4XR

CANDELA DISTRIBUTION (continued):

	0°
175°	0
180°	0

(END OF REPORT)