

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: 768860

Luminaire Tested: **ARC25SXX55X4X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768860
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC25SXX55X4X
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: 16723.8 lumens
Efficiency: 60.8%
Efficacy: 66.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U4 - G5

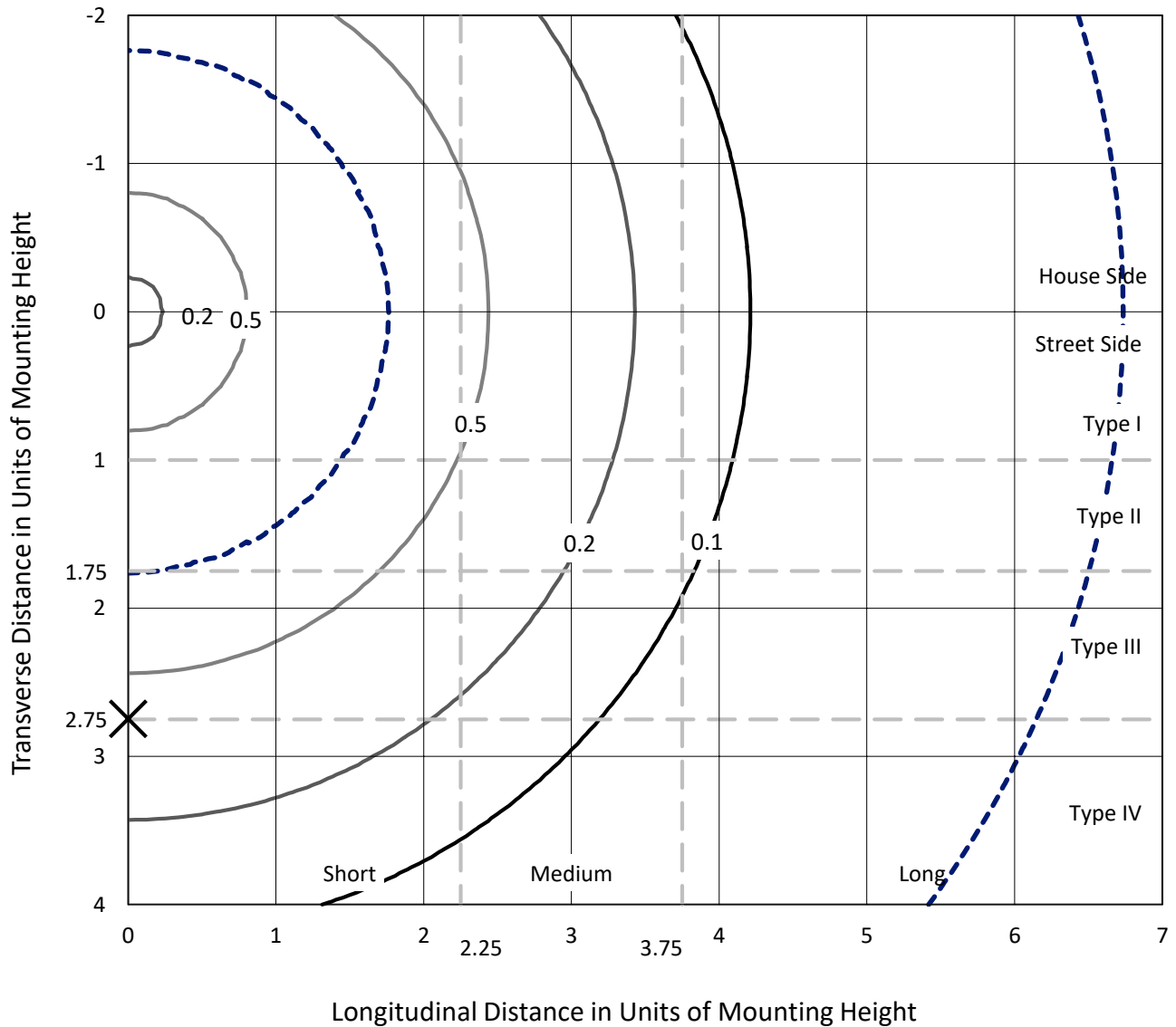
Input Watts (W): 250
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

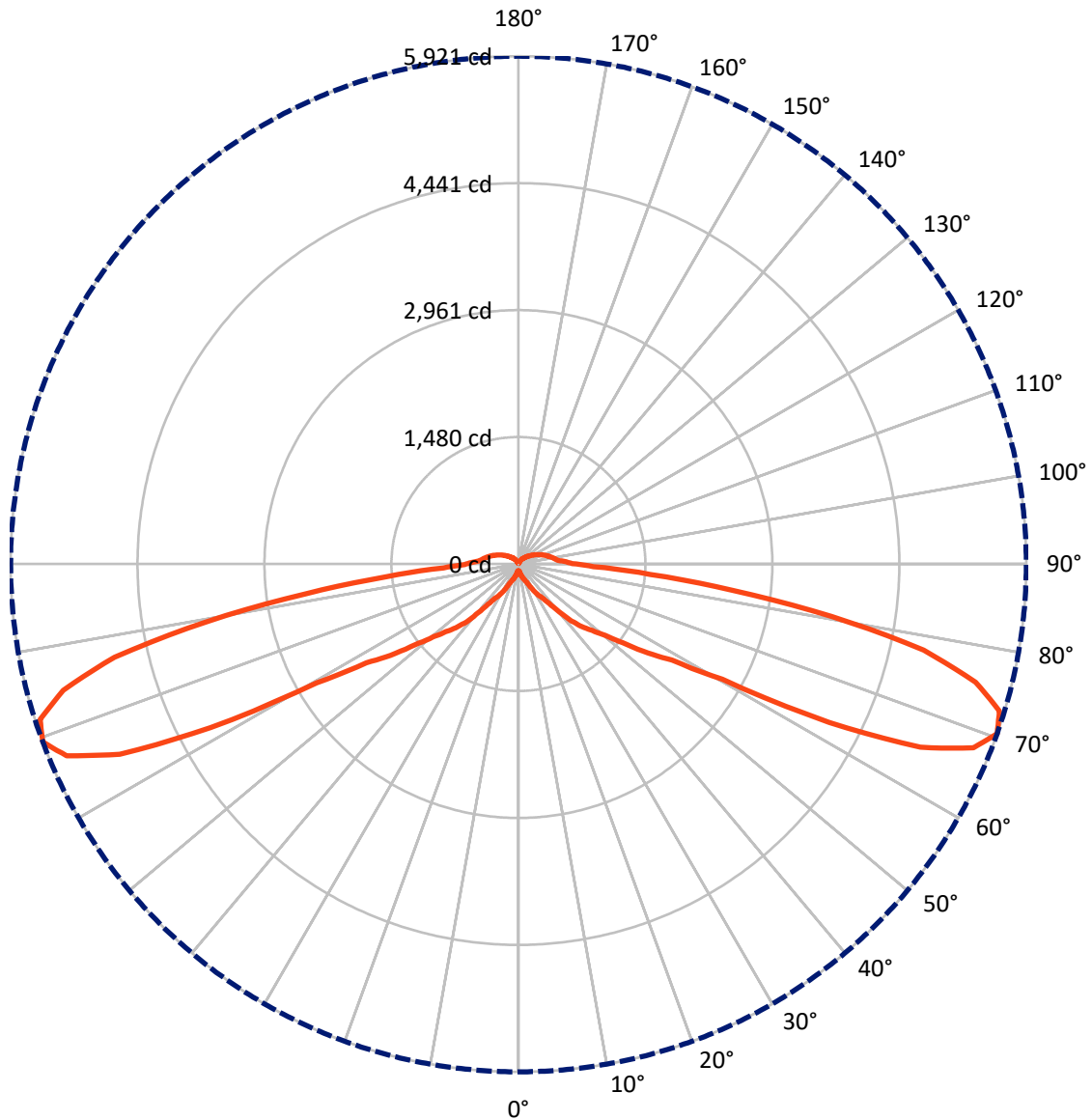
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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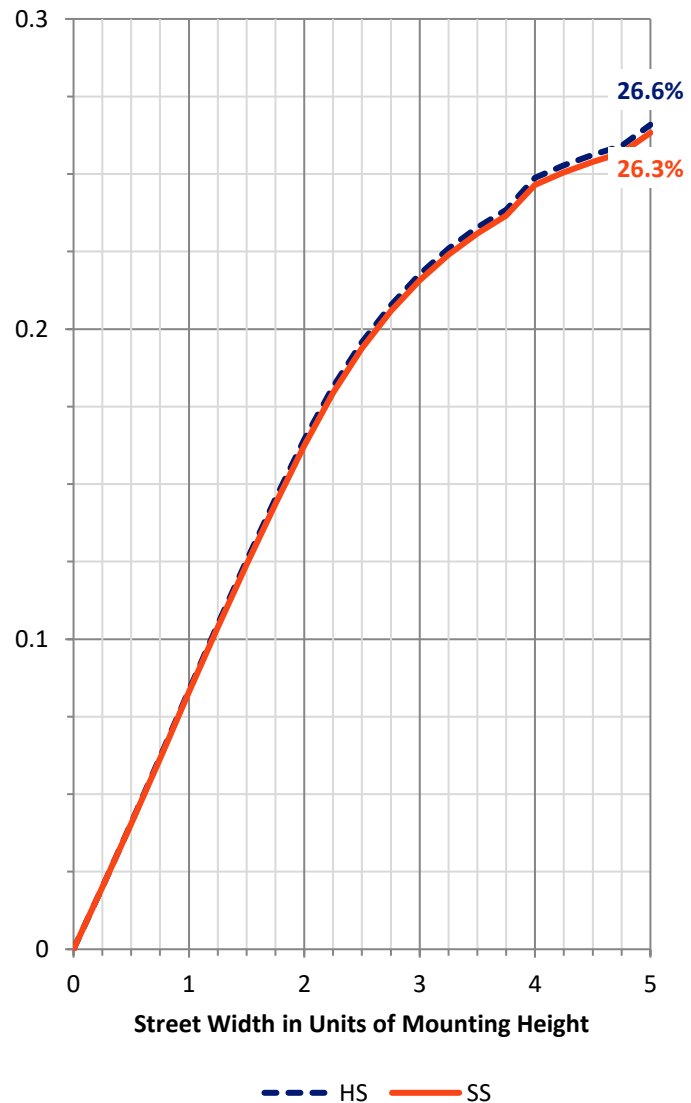
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7640.3	721.6	8361.9
	% Lamp	27.8	2.6	30.4
Street Side	Lumens	7640.3	721.6	8361.9
	% Lamp	27.8	2.6	30.4
Total	Lumens	15280.6	1443.2	16723.8
	% Lamp	55.6	5.2	60.8

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.0	0.1	0.0
10°-20°	43.9	0.3	0.2
20°-30°	124.9	0.7	0.5
30°-40°	328.2	2.0	1.2
40°-50°	805.0	4.8	2.9
50°-60°	1690.8	10.1	6.1
60°-70°	4800.8	28.7	17.5
70°-80°	5549.3	33.2	20.2
80°-90°	1928.6	11.5	7.0
90°-100°	529.8	3.2	1.9
100°-110°	374.0	2.2	1.4
110°-120°	254.1	1.5	0.9
120°-130°	155.0	0.9	0.6
130°-140°	85.0	0.5	0.3
140°-150°	39.7	0.2	0.1
150°-160°	12.7	0.1	0.0
160°-170°	1.7	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	15280.6	91.4	55.6
0°-180°	16723.8	100.0	60.8



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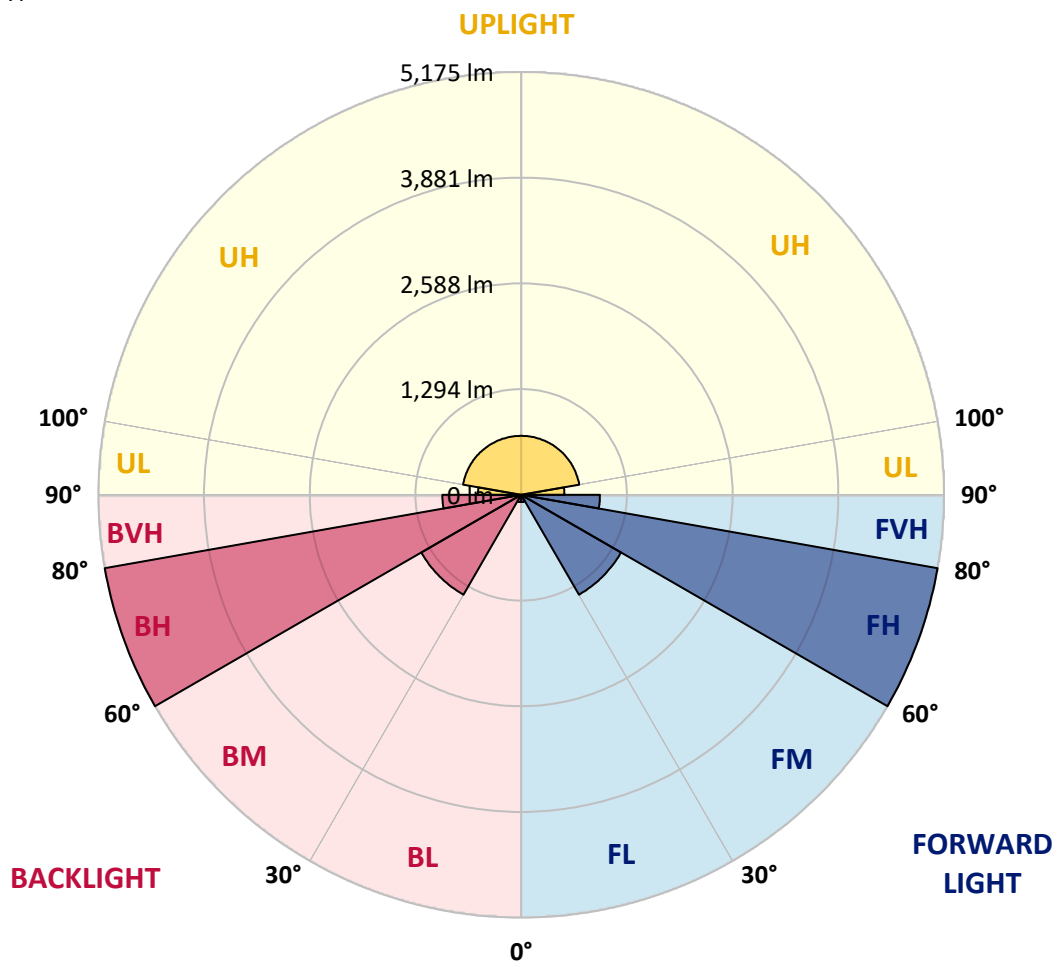
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.9	0.3			
FM (30°-60°)	1412.0	5.1			
FH (60°-80°)	5175.1	18.8			G3/7500
FVH (80°-90°)	964.3	3.5			G5
BL (0°-30°)	88.9	0.3	B0/110		
BM (30°-60°)	1412.0	5.1	B2/2500		
BH (60°-80°)	5175.1	18.8	B5		G3/7500
BVH (80°-90°)	964.3	3.5			G5
UL (90°-100°)	529.8	1.9		U4/1000	
UH (100°-180°)	721.6	2.6		U4/1000	
Trapped Light	10776.2	39.2			

BUG Rating: B5-U4-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°
0°	91
2.5°	88
5°	78
7.5°	98
10°	113
12.5°	132
15°	148
17.5°	172
20°	190
22.5°	214
25°	250
27.5°	310
30°	377
32.5°	436
35°	489
37.5°	585
40°	731
42.5°	908
45°	1042
47.5°	1158
50°	1309
52.5°	1525
55°	1832
57.5°	2112
60°	2729
62.5°	4067
65°	5150
67.5°	5721
70°	5921
72.5°	5863
75°	5506
77.5°	4832
80°	3703
82.5°	2508
85°	1539
87.5°	875
90°	625
95°	456
105°	353
115°	252
125°	167
135°	105
145°	62
155°	24
165°	0



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CANDELA DISTRIBUTION (continued):

	0°
175°	0
180°	0

(END OF REPORT)