

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: 768626

Luminaire Tested: **ARC15SXX55X4XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768626
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15SXX55X4XR
Description: Refractive Globe Type V Acrylic with
Downlight reflector and spun top
Light Source: 150 WATT HPS CLEAR ED-23.5
Ballast/Driver: -

Summary

Lumens per Lamp: 16000 (1 lamp)
Luminaire Lumens: 12937.2 lumens
Efficiency: 80.9%
Efficacy: 86.2 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U4 - G4

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

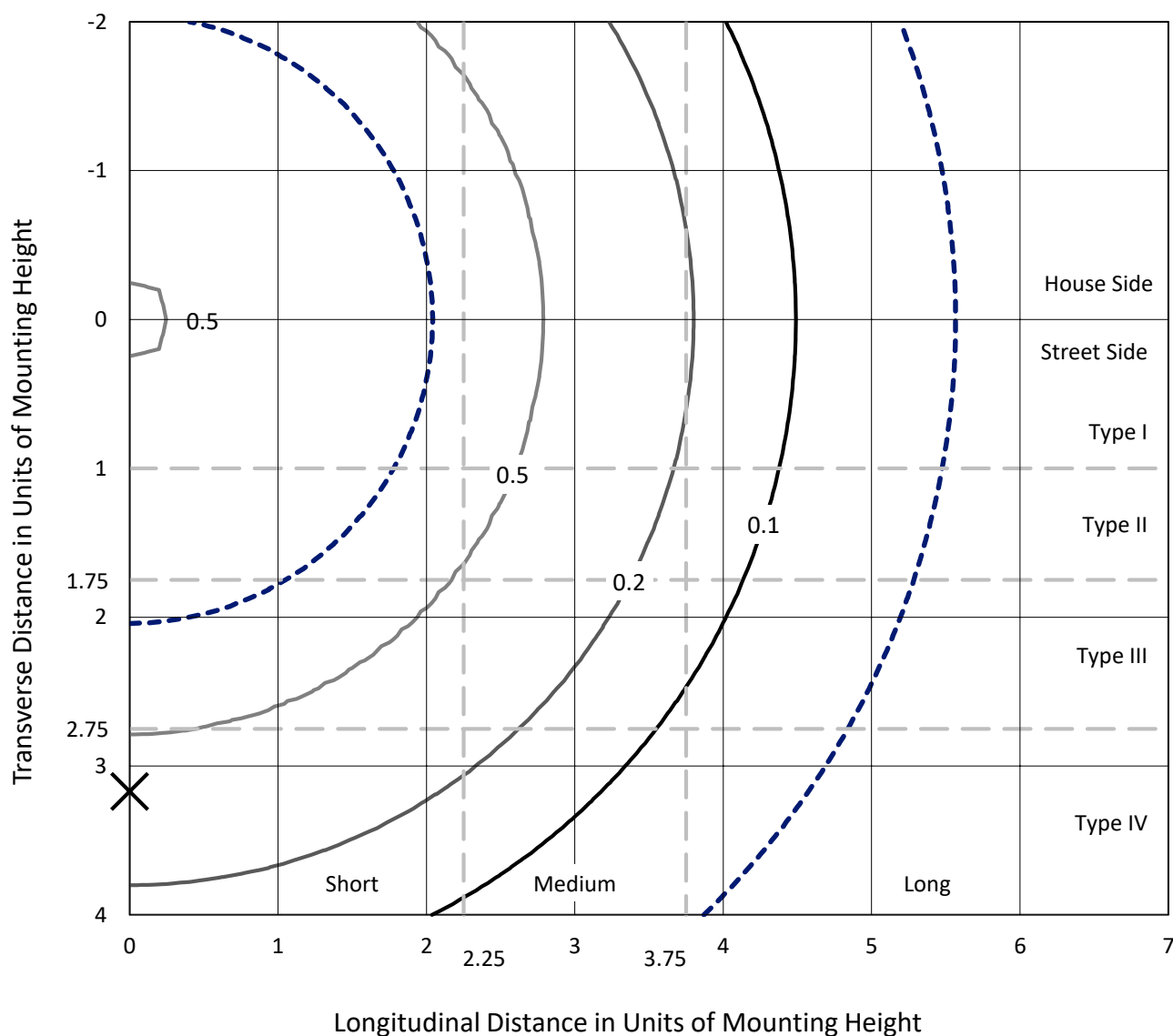


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

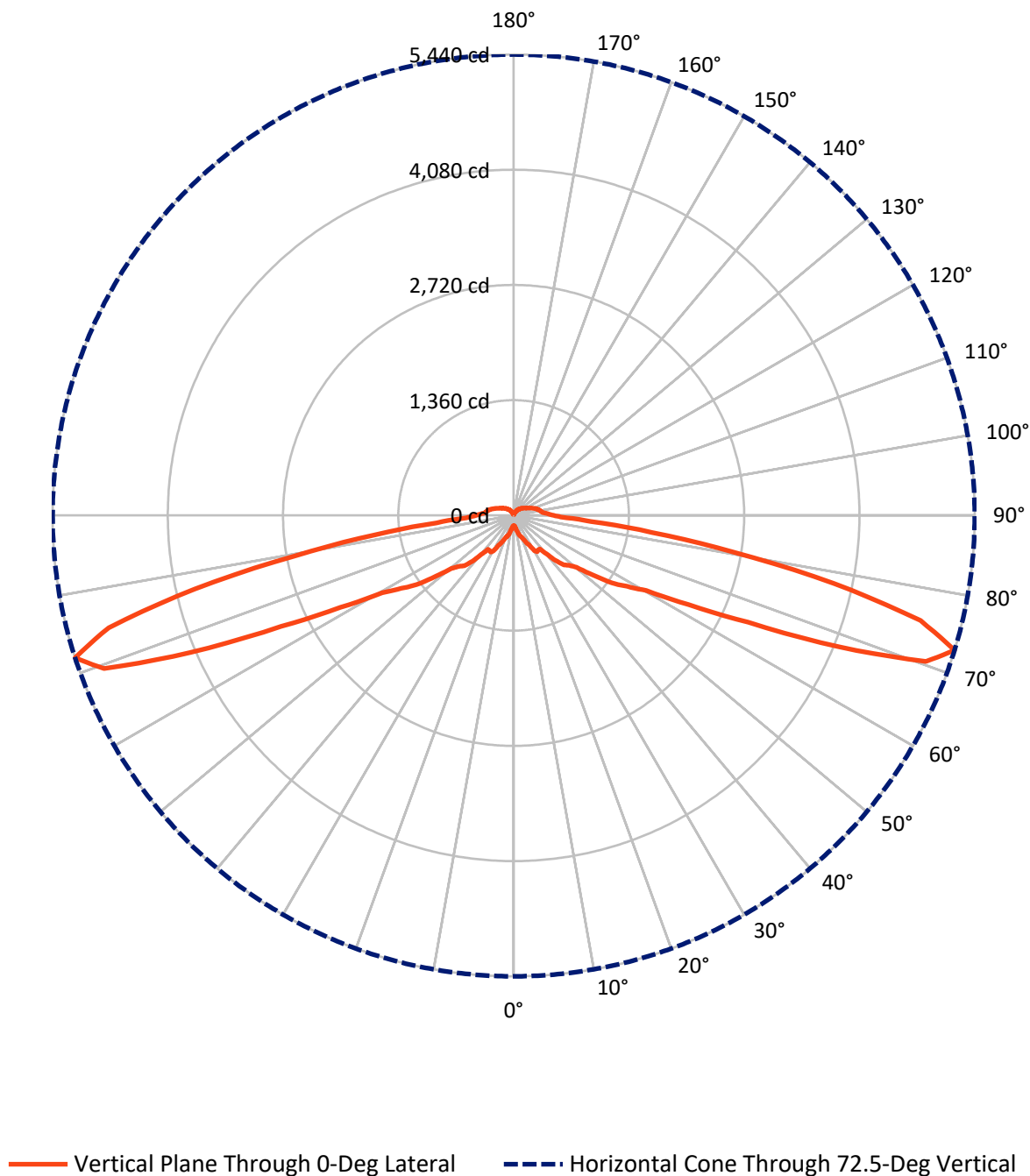


Based on 20 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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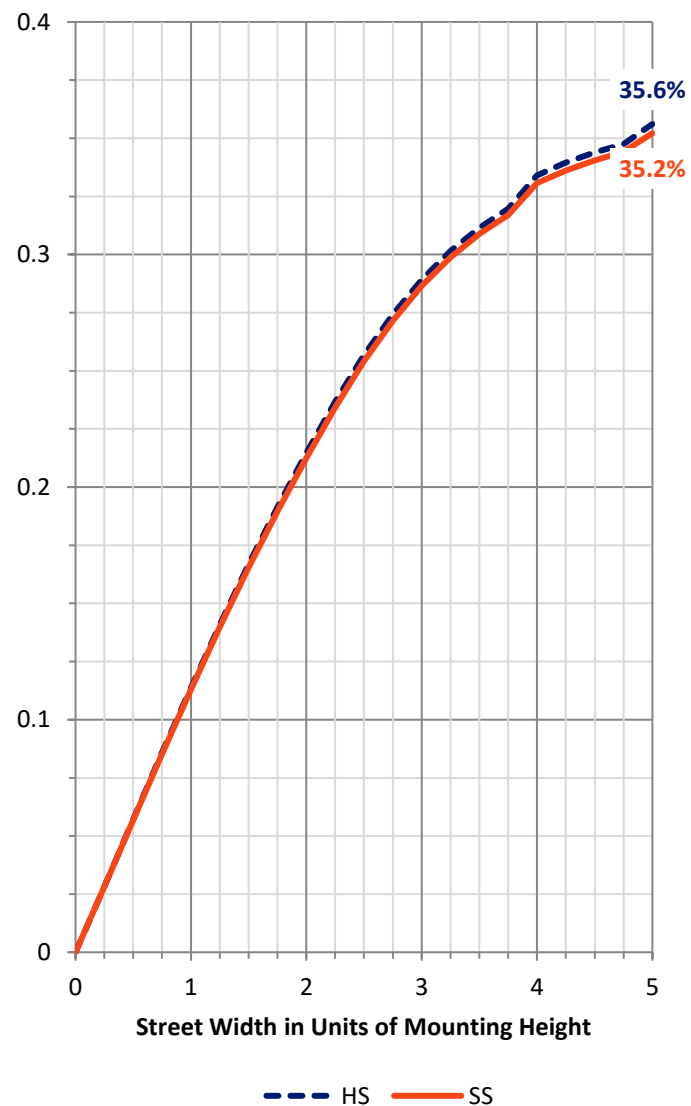
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5873.2	595.4	6468.6
	% Lamp	36.7	3.7	40.4
Street Side	Lumens	5873.2	595.4	6468.6
	% Lamp	36.7	3.7	40.4
Total	Lumens	11746.4	1190.7	12937.2
	% Lamp	73.4	7.4	80.9

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	13.8	0.1	0.1
10°-20°	66.2	0.5	0.4
20°-30°	170.7	1.3	1.1
30°-40°	323.3	2.5	2.0
40°-50°	627.0	4.8	3.9
50°-60°	1248.1	9.6	7.8
60°-70°	3241.4	25.1	20.3
70°-80°	4791.2	37.0	29.9
80°-90°	1264.6	9.8	7.9
90°-100°	398.8	3.1	2.5
100°-110°	294.6	2.3	1.8
110°-120°	206.2	1.6	1.3
120°-130°	136.1	1.1	0.9
130°-140°	86.0	0.7	0.5
140°-150°	47.3	0.4	0.3
150°-160°	19.9	0.2	0.1
160°-170°	5.5	0.0	0.0
170°-180°	0.5	0.0	0.0
0°-90°	11746.4	90.8	73.4
0°-180°	12937.2	100.0	80.9

Coefficient of Utilization



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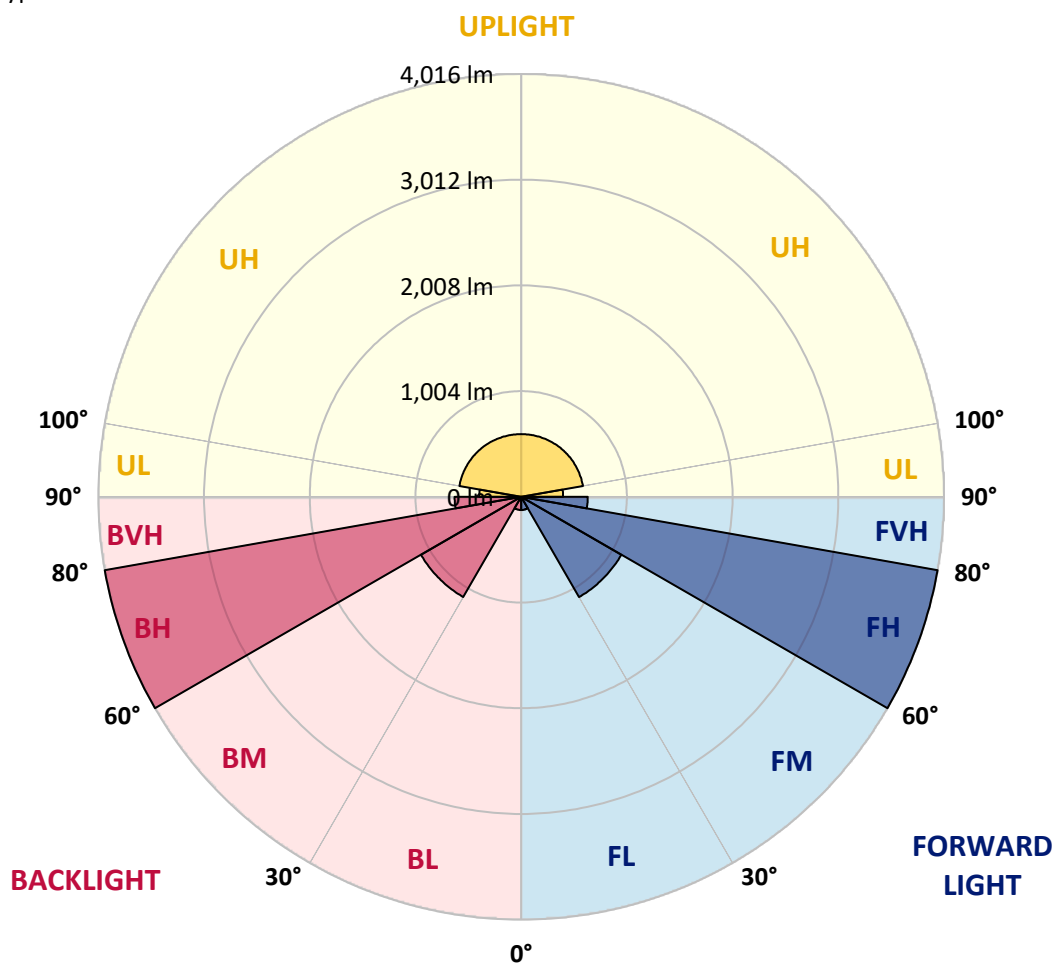
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.4	0.8			
FM	(30°-60°)	1099.2	6.9			
FH	(60°-80°)	4016.3	25.1			G2/5000
FVH	(80°-90°)	632.3	4.0			G4/750
BL	(0°-30°)	125.4	0.8	B1/500		
BM	(30°-60°)	1099.2	6.9	B2/2500		
BH	(60°-80°)	4016.3	25.1	B4/5000		G2/5000
BVH	(80°-90°)	632.3	4.0			G4/750
UL	(90°-100°)	398.8	2.5		U3/500	
UH	(100°-180°)	595.4	3.7		U4/1000	
Trapped Light		3062.8	19.1			

BUG Rating: B4-U4-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	129
2.5°	121
5°	128
7.5°	151
10°	169
12.5°	199
15°	234
17.5°	257
20°	275
22.5°	312
25°	362
27.5°	400
30°	482
32.5°	511
35°	501
37.5°	502
40°	597
42.5°	728
45°	833
47.5°	880
50°	961
52.5°	1165
55°	1409
57.5°	1580
60°	1797
62.5°	2313
65°	3039
67.5°	4143
70°	5161
72.5°	5440
75°	4958
77.5°	3864
80°	2626
82.5°	1640
85°	911
87.5°	557
90°	452
95°	347
105°	284
115°	199
125°	149
135°	110
145°	75
155°	41
165°	15



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CANDELA DISTRIBUTION (continued):

	0°
175°	6
180°	0

(END OF REPORT)