

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: 768741

Luminaire Tested: **ARC17MXX55X4R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768741
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC17MXX55X4R
Description: 175 WATT MH TYPE V REFRACTIVE GLOBE
W/SPUN TOP
Light Source: 175 WATT MH CL ED-28
Ballast/Driver: -

Summary

Lumens per Lamp: 14000 (1 lamp)
Luminaire Lumens: 11362.1 lumens
Efficiency: 81.2%
Efficacy: 64.9 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): 175
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

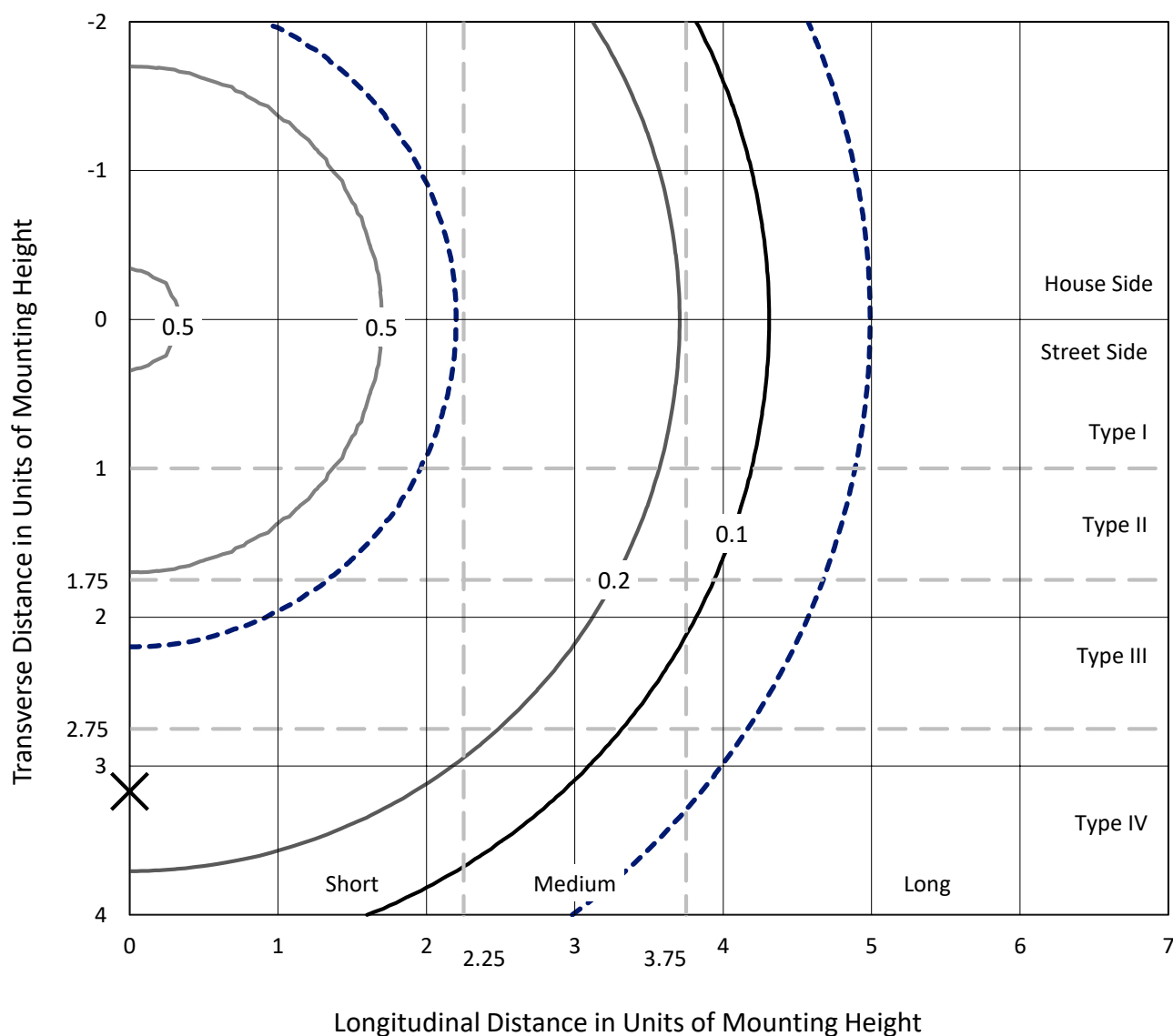


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

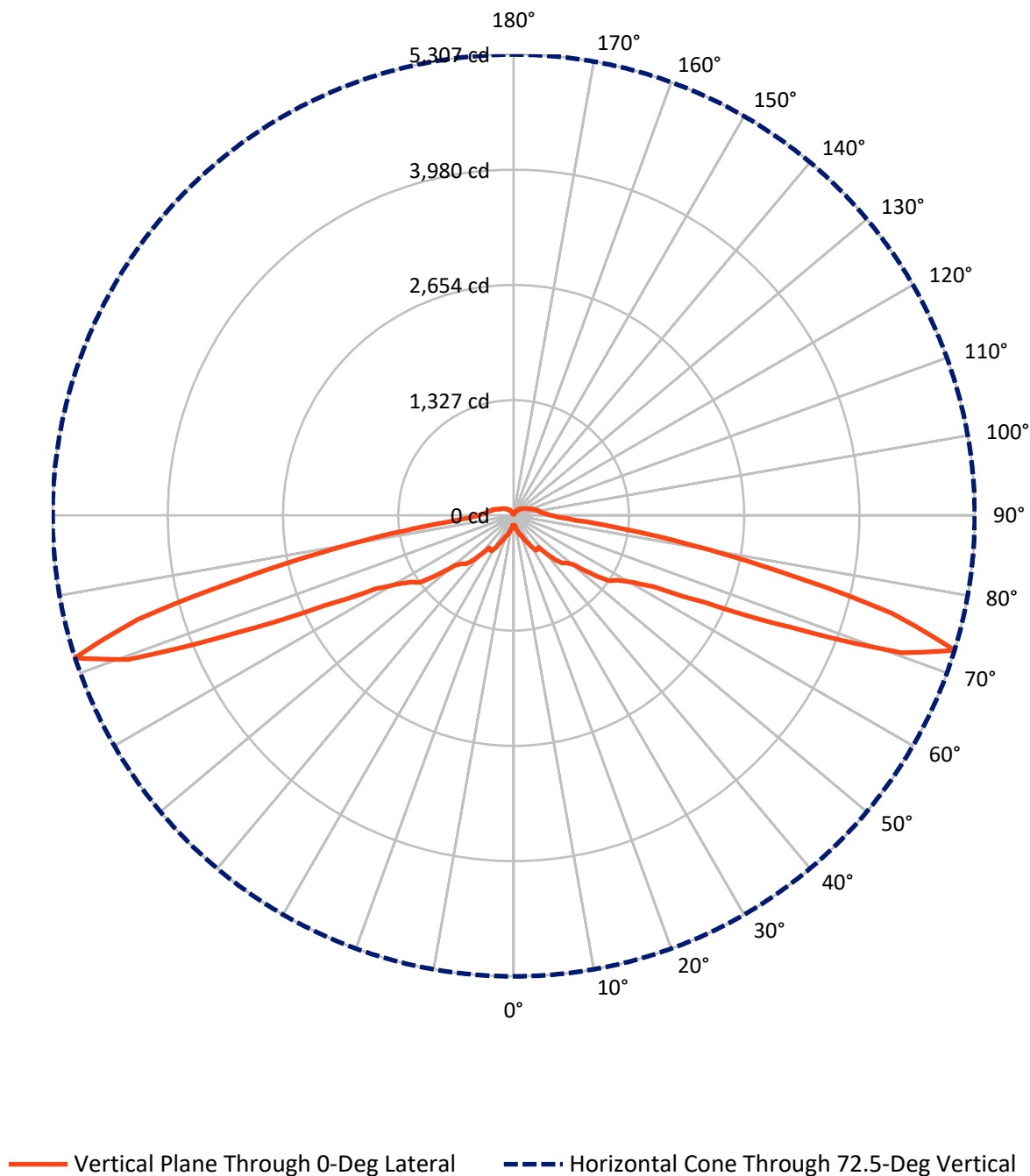


Based on 20 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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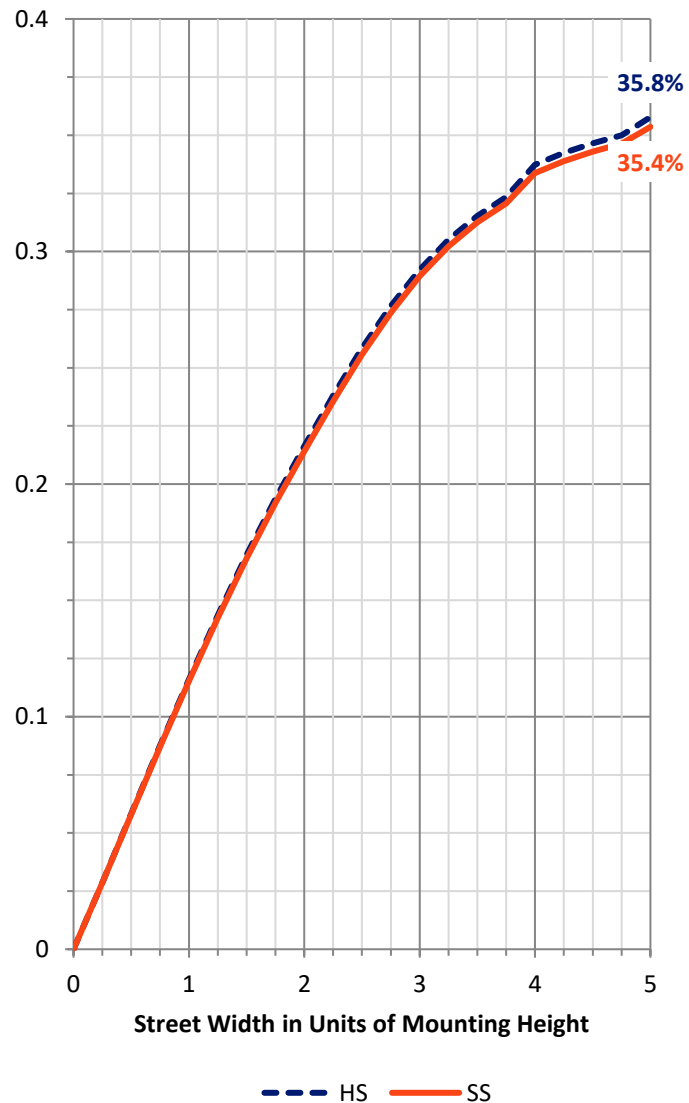
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5142.7	538.4	5681.1
	% Lamp	36.7	3.8	40.6
Street Side	Lumens	5142.7	538.4	5681.1
	% Lamp	36.7	3.8	40.6
Total	Lumens	10285.4	1076.7	11362.1
	% Lamp	73.5	7.7	81.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.4	0.1	0.1
10°-20°	58.5	0.5	0.4
20°-30°	155.1	1.4	1.1
30°-40°	302.8	2.7	2.2
40°-50°	587.0	5.2	4.2
50°-60°	1140.6	10.0	8.1
60°-70°	2701.1	23.8	19.3
70°-80°	4314.4	38.0	30.8
80°-90°	1013.4	8.9	7.2
90°-100°	368.4	3.2	2.6
100°-110°	263.9	2.3	1.9
110°-120°	182.4	1.6	1.3
120°-130°	122.9	1.1	0.9
130°-140°	78.6	0.7	0.6
140°-150°	42.9	0.4	0.3
150°-160°	17.9	0.2	0.1
160°-170°	5.3	0.0	0.0
170°-180°	1.0	0.0	0.0
0°-90°	10285.4	90.5	73.5
0°-180°	11362.1	100.0	81.2

Coefficient of Utilization



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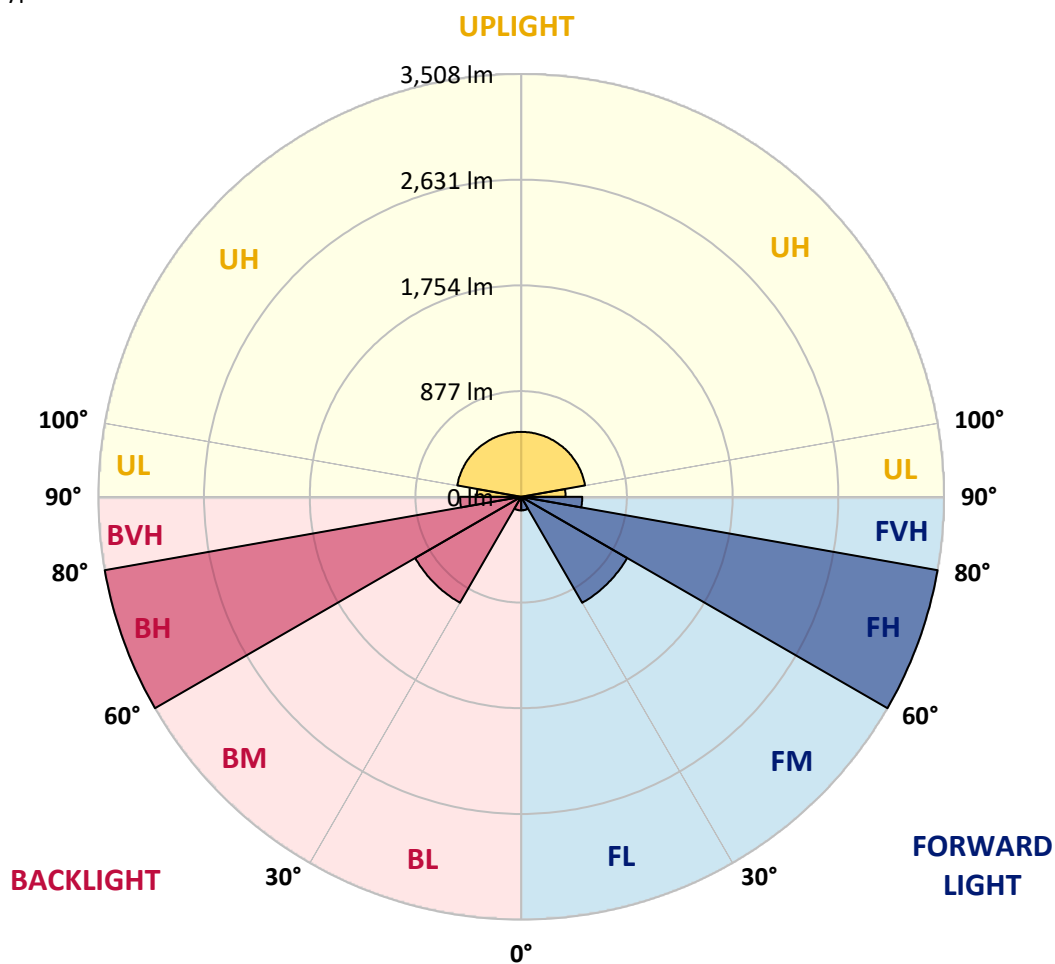
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.0	0.8			
FM	(30°-60°)	1015.2	7.3			
FH	(60°-80°)	3507.8	25.1			G2/5000
FVH	(80°-90°)	506.7	3.6			G4/750
BL	(0°-30°)	113.0	0.8	B1/500		
BM	(30°-60°)	1015.2	7.3	B2/2500		
BH	(60°-80°)	3507.8	25.1	B4/5000		G2/5000
BVH	(80°-90°)	506.7	3.6			G4/750
UL	(90°-100°)	368.4	2.6		U3/500	
UH	(100°-180°)	538.4	3.8		U4/1000	
Trapped Light		2637.9	18.8			

BUG Rating: B4-U4-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

0°	
0°	118
2.5°	112
5°	115
7.5°	134
10°	152
12.5°	176
15°	202
17.5°	229
20°	245
22.5°	282
25°	327
27.5°	370
30°	435
32.5°	482
35°	473
37.5°	467
40°	567
42.5°	691
45°	781
47.5°	818
50°	885
52.5°	1105
55°	1328
57.5°	1407
60°	1556
62.5°	1803
65°	2414
67.5°	3441
70°	4735
72.5°	5307
75°	4495
77.5°	3154
80°	2074
82.5°	1262
85°	713
87.5°	505
90°	413
95°	325
105°	249
115°	175
125°	136
135°	101
145°	68
155°	36
165°	15



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CANDELA DISTRIBUTION (continued):

	0°
175°	9
180°	9

(END OF REPORT)