

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: 768742

Luminaire Tested: **ARC17MXX55X4X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768742  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC17MXX55X4X  
Description: 175WATT MH TYPE V REFRACTIVE GLOBE  
W/SPUN TOP  
Light Source: 175 WATT MH CLEAR ED-28  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 9077.3 lumens  
Efficiency: 64.8%  
Efficacy: 51.9 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U4 - G3

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

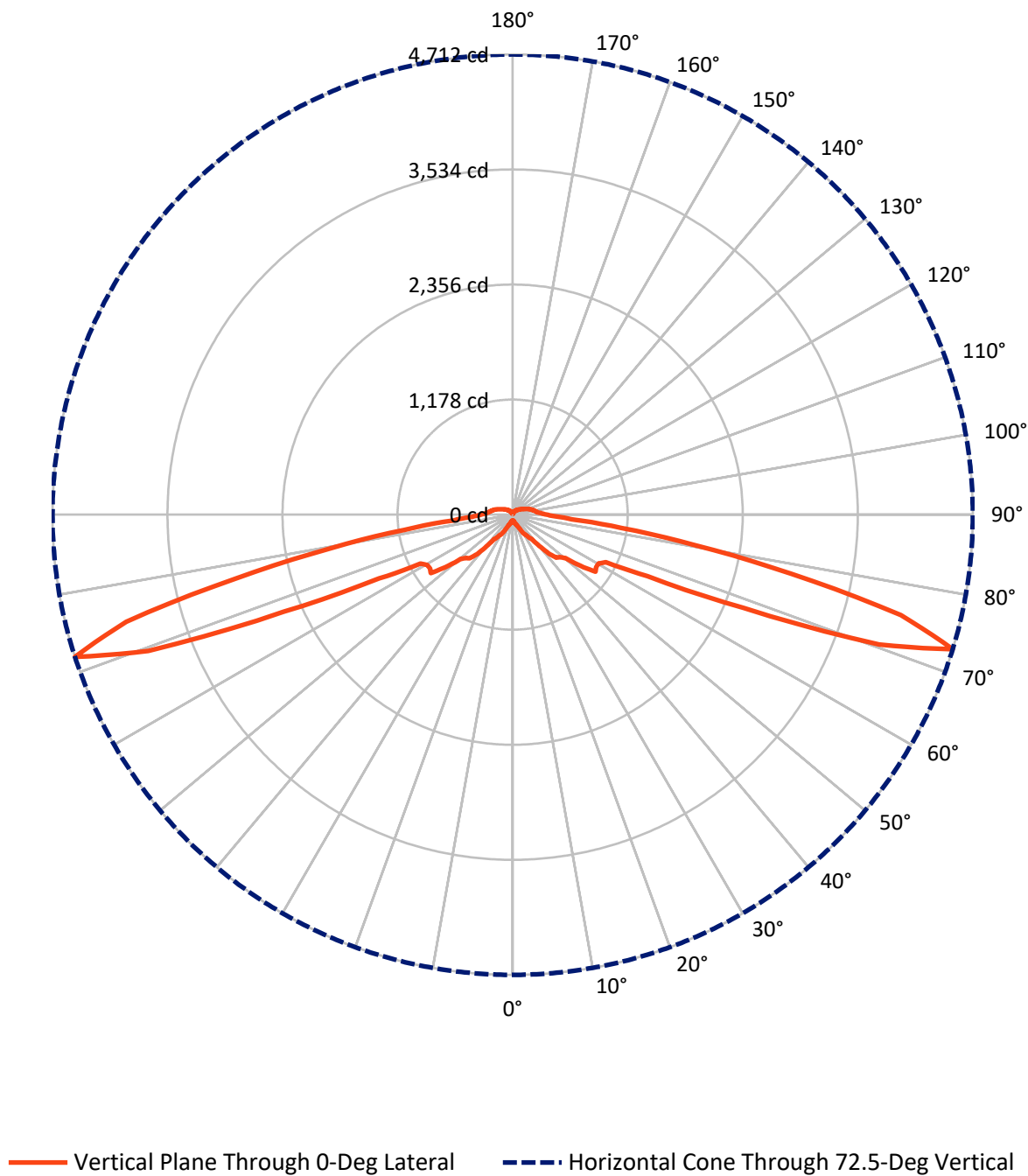




REPORT NUMBER: 768742

CATALOG NUMBER: ARC17MXX55X4X

## Luminous Intensity Polar Plot



REPORT NUMBER: 768742

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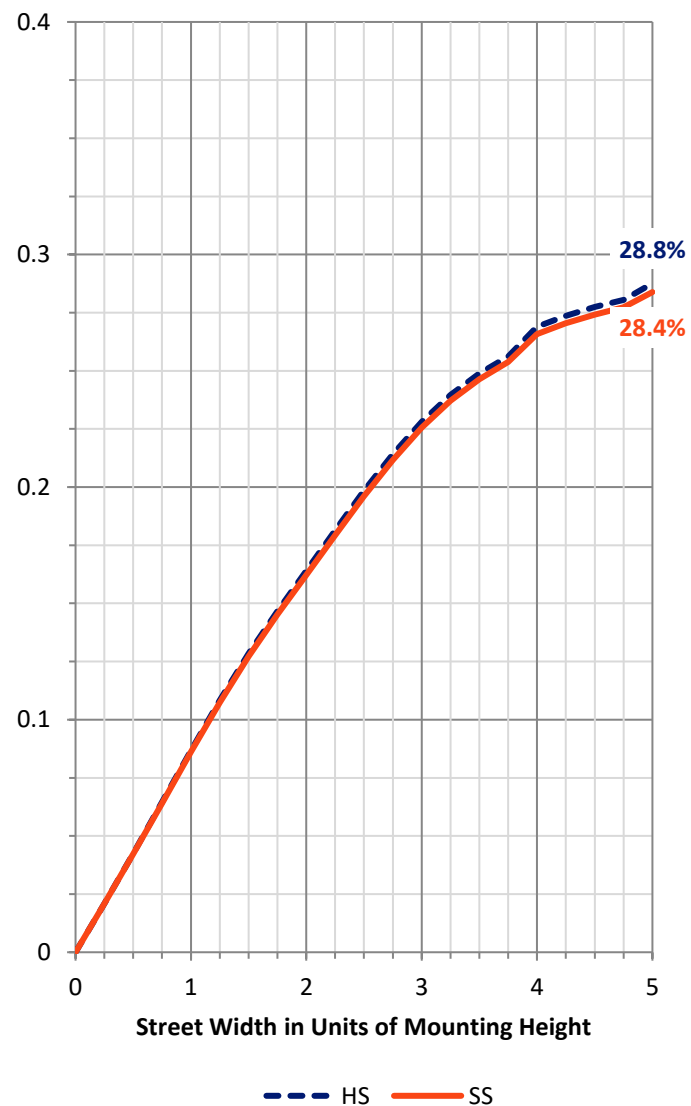
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total  |
|--------------------|--------|----------|--------|--------|
| <b>House Side</b>  | Lumens | 4133.7   | 405.0  | 4538.6 |
|                    | % Lamp | 29.5     | 2.9    | 32.4   |
| <b>Street Side</b> | Lumens | 4133.7   | 405.0  | 4538.6 |
|                    | % Lamp | 29.5     | 2.9    | 32.4   |
| <b>Total</b>       | Lumens | 8267.3   | 810.0  | 9077.3 |
|                    | % Lamp | 59.1     | 5.8    | 64.8   |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 6.3    | 0.1       | 0.0    |
| 10°-20°   | 26.4   | 0.3       | 0.2    |
| 20°-30°   | 73.6   | 0.8       | 0.5    |
| 30°-40°   | 186.1  | 2.0       | 1.3    |
| 40°-50°   | 463.1  | 5.1       | 3.3    |
| 50°-60°   | 847.3  | 9.3       | 6.1    |
| 60°-70°   | 1912.3 | 21.1      | 13.7   |
| 70°-80°   | 3868.2 | 42.6      | 27.6   |
| 80°-90°   | 884.1  | 9.7       | 6.3    |
| 90°-100°  | 289.2  | 3.2       | 2.1    |
| 100°-110° | 205.8  | 2.3       | 1.5    |
| 110°-120° | 137.0  | 1.5       | 1.0    |
| 120°-130° | 85.9   | 0.9       | 0.6    |
| 130°-140° | 52.3   | 0.6       | 0.4    |
| 140°-150° | 28.4   | 0.3       | 0.2    |
| 150°-160° | 12.2   | 0.1       | 0.1    |
| 160°-170° | 3.5    | 0.0       | 0.0    |
| 170°-180° | 0.5    | 0.0       | 0.0    |
| 0°-90°    | 8267.3 | 91.1      | 59.1   |
| 0°-180°   | 9077.3 | 100.0     | 64.8   |

**Coefficient of Utilization**



REPORT NUMBER: 768742

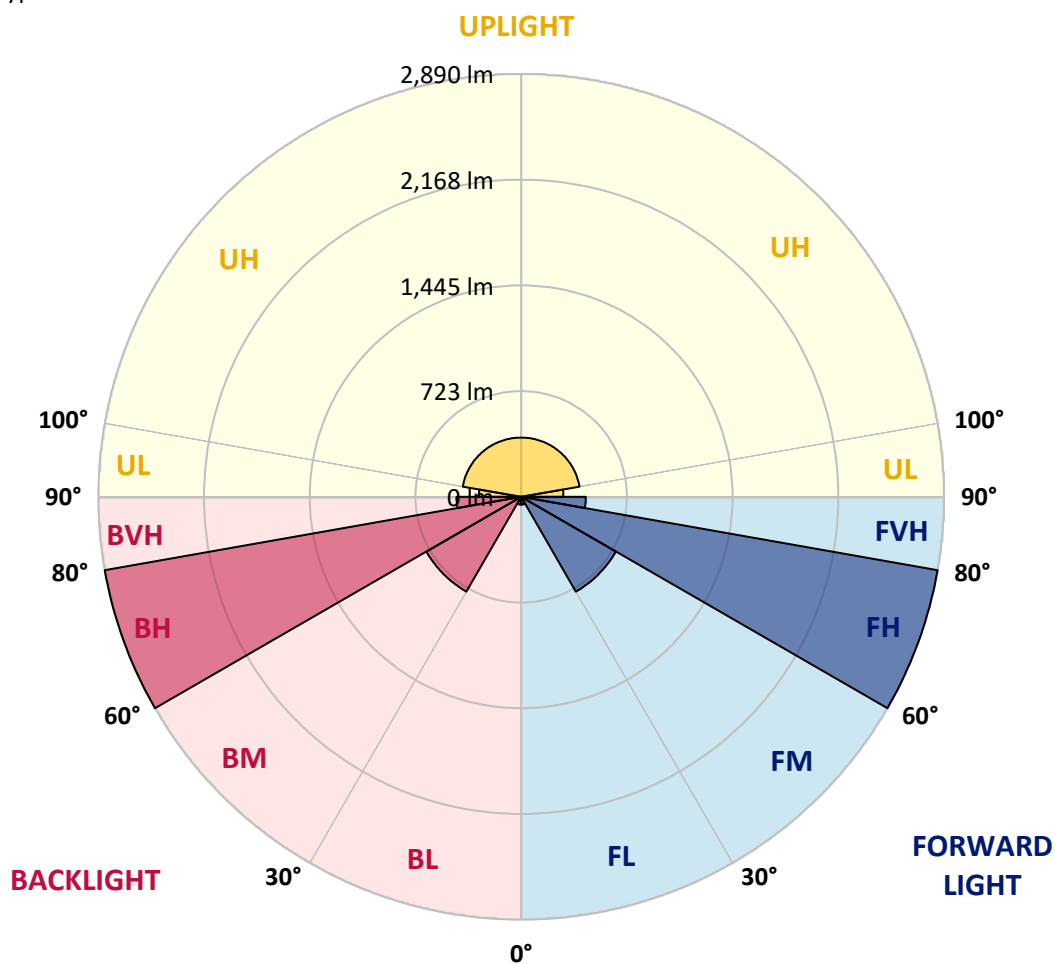
CATALOG NUMBER: ARC17MXX55X4X

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |        |         |
|---------------|-------------|--------|--------|-------------------------|--------|---------|
|               |             |        |        | B                       | U      | G       |
| FL            | (0°-30°)    | 53.2   | 0.4    |                         |        |         |
| FM            | (30°-60°)   | 748.2  | 5.3    |                         |        |         |
| FH            | (60°-80°)   | 2890.2 | 20.6   |                         |        | G2/5000 |
| FVH           | (80°-90°)   | 442.1  | 3.2    |                         |        | G3/500  |
| BL            | (0°-30°)    | 53.2   | 0.4    | B0/110                  |        |         |
| BM            | (30°-60°)   | 748.2  | 5.3    | B1/1000                 |        |         |
| BH            | (60°-80°)   | 2890.2 | 20.6   | B4/5000                 |        | G2/5000 |
| BVH           | (80°-90°)   | 442.1  | 3.2    |                         |        | G3/500  |
| UL            | (90°-100°)  | 289.2  | 2.1    |                         | U3/500 |         |
| UH            | (100°-180°) | 405.0  | 2.9    |                         | U3/500 |         |
| Trapped Light |             | 4922.7 | 35.2   |                         |        |         |

**BUG Rating: B4-U4-G3**

Type V Short





REPORT NUMBER: 768742

CATALOG NUMBER: ARC17MXX55X4X

**CANDELA DISTRIBUTION (FULL):**

| 0°    |      |
|-------|------|
| 0°    | 69   |
| 2.5°  | 64   |
| 5°    | 60   |
| 7.5°  | 66   |
| 10°   | 73   |
| 12.5° | 81   |
| 15°   | 92   |
| 17.5° | 100  |
| 20°   | 111  |
| 22.5° | 126  |
| 25°   | 147  |
| 27.5° | 181  |
| 30°   | 227  |
| 32.5° | 246  |
| 35°   | 289  |
| 37.5° | 313  |
| 40°   | 420  |
| 42.5° | 542  |
| 45°   | 627  |
| 47.5° | 650  |
| 50°   | 698  |
| 52.5° | 872  |
| 55°   | 1029 |
| 57.5° | 1009 |
| 60°   | 1014 |
| 62.5° | 1070 |
| 65°   | 1517 |
| 67.5° | 2547 |
| 70°   | 3981 |
| 72.5° | 4712 |
| 75°   | 4105 |
| 77.5° | 2912 |
| 80°   | 1889 |
| 82.5° | 1122 |
| 85°   | 606  |
| 87.5° | 412  |
| 90°   | 329  |
| 95°   | 253  |
| 105°  | 197  |
| 115°  | 131  |
| 125°  | 93   |
| 135°  | 66   |
| 145°  | 45   |
| 155°  | 25   |
| 165°  | 10   |



REPORT NUMBER: 768742

CATALOG NUMBER: ARC17MXX55X4X

CANDELA DISTRIBUTION (continued):

|      |    |
|------|----|
|      | 0° |
| 175° | 4  |
| 180° | 4  |

(END OF REPORT)