

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: **ACN17MXX55X4R**

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: ACN17MXX55X4R  
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

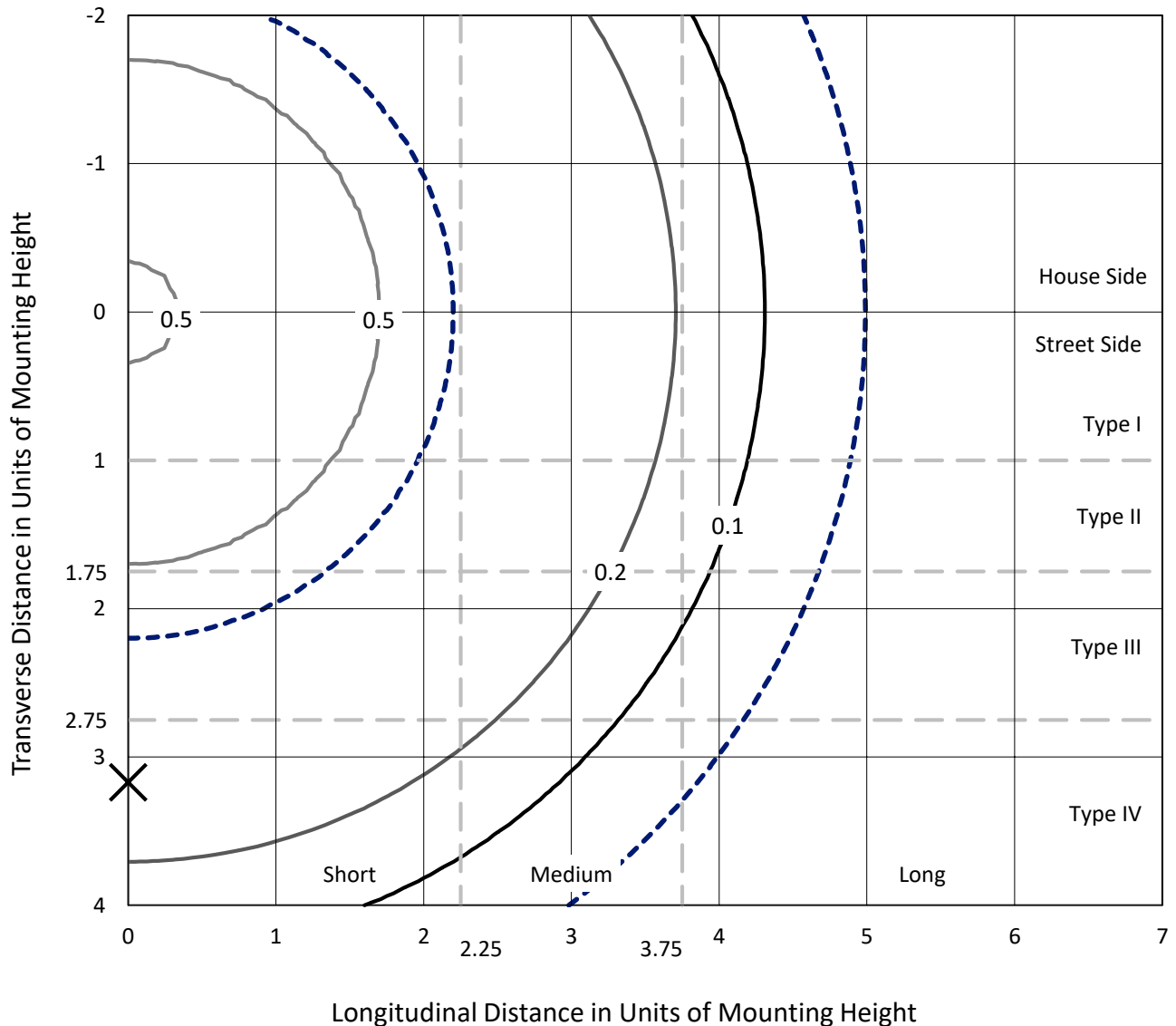
Input Watts (W): 175  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

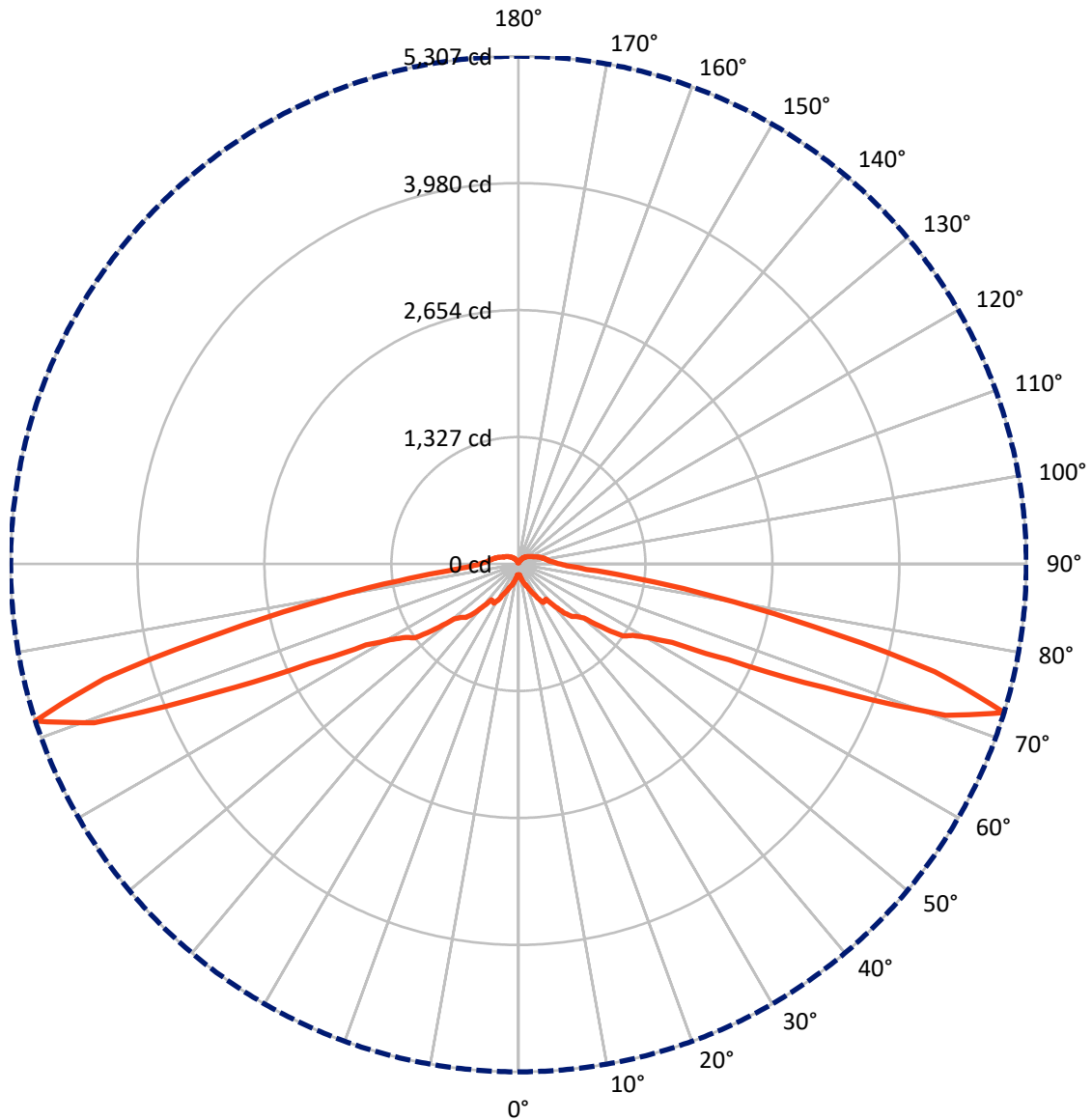


Based on 20 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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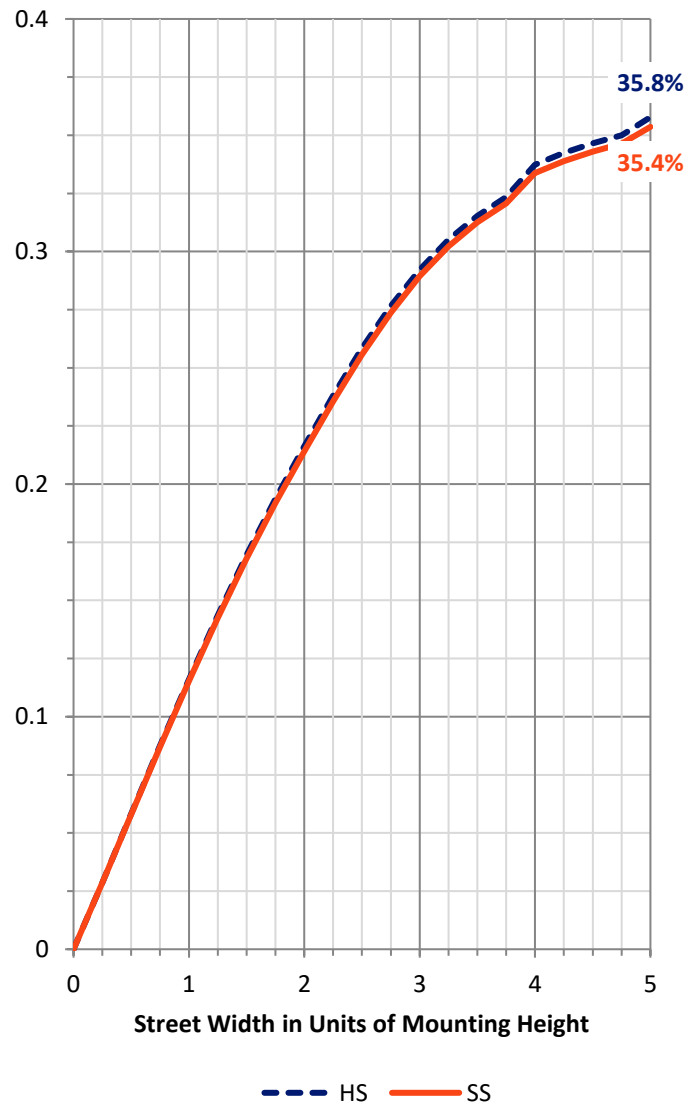
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 5142.7   | 538.4  | 5681.1  |
|                    | % Lamp | 36.7     | 3.8    | 40.6    |
| <b>Street Side</b> | Lumens | 5142.7   | 538.4  | 5681.1  |
|                    | % Lamp | 36.7     | 3.8    | 40.6    |
| <b>Total</b>       | Lumens | 10285.4  | 1076.7 | 11362.1 |
|                    | % Lamp | 73.5     | 7.7    | 81.2    |

**Coefficient of Utilization**

**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   |



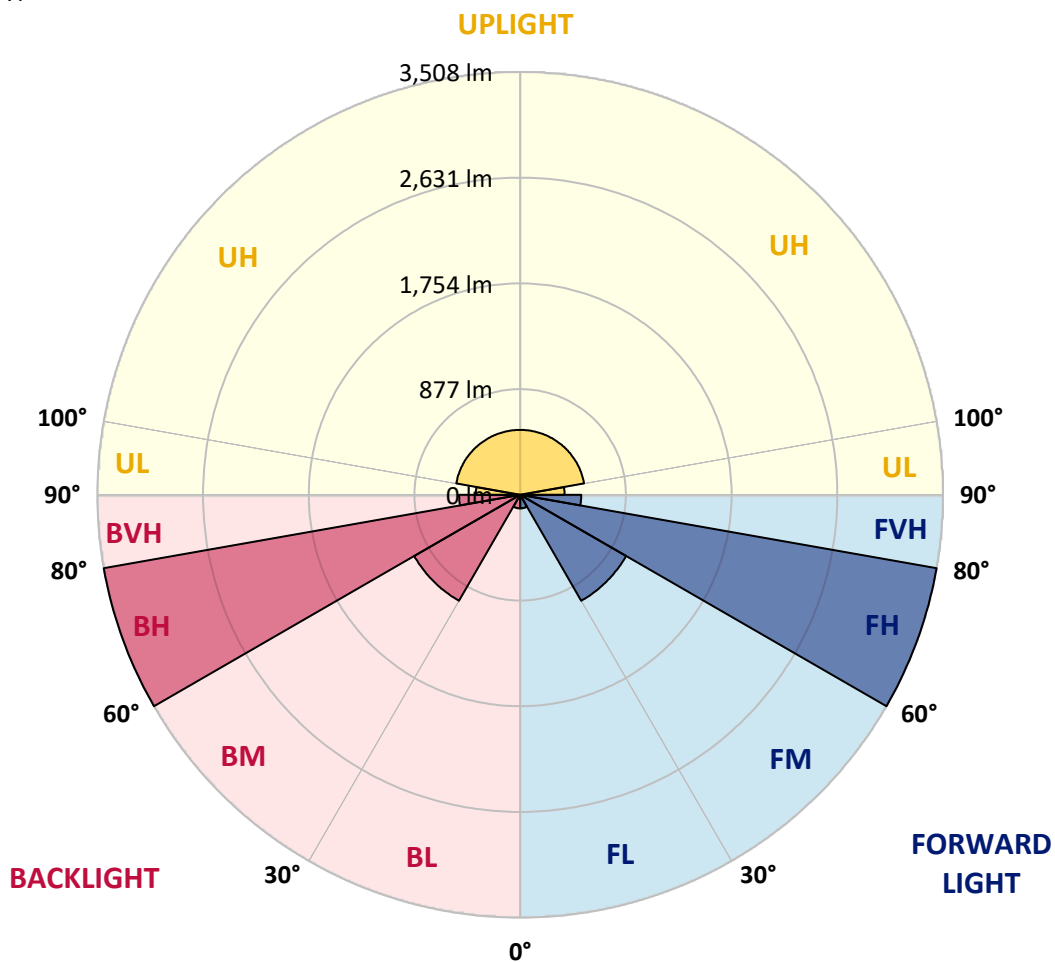
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| 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)