

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: 768921

Luminaire Tested: **ARC17MXX5CX6X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768921  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC17MXX5CX6X  
Description: CUTOFF GENERATIONS POST TOP  
Light Source: 175 WATT MH CLEAR ED-28  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 10931.7 lumens  
Efficiency: 78.1%  
Efficacy: 62.5 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B4 - U3 - G2

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



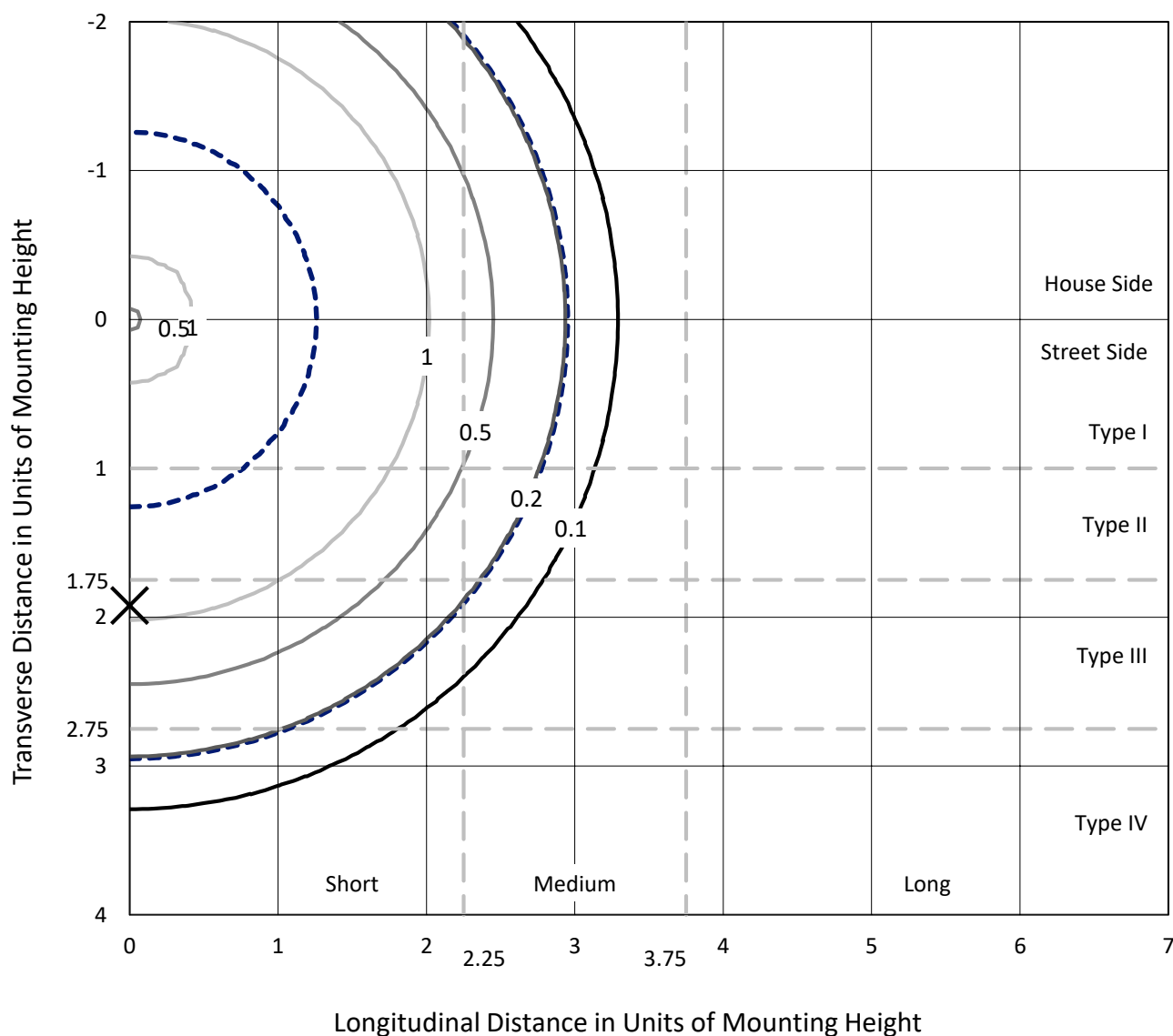
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

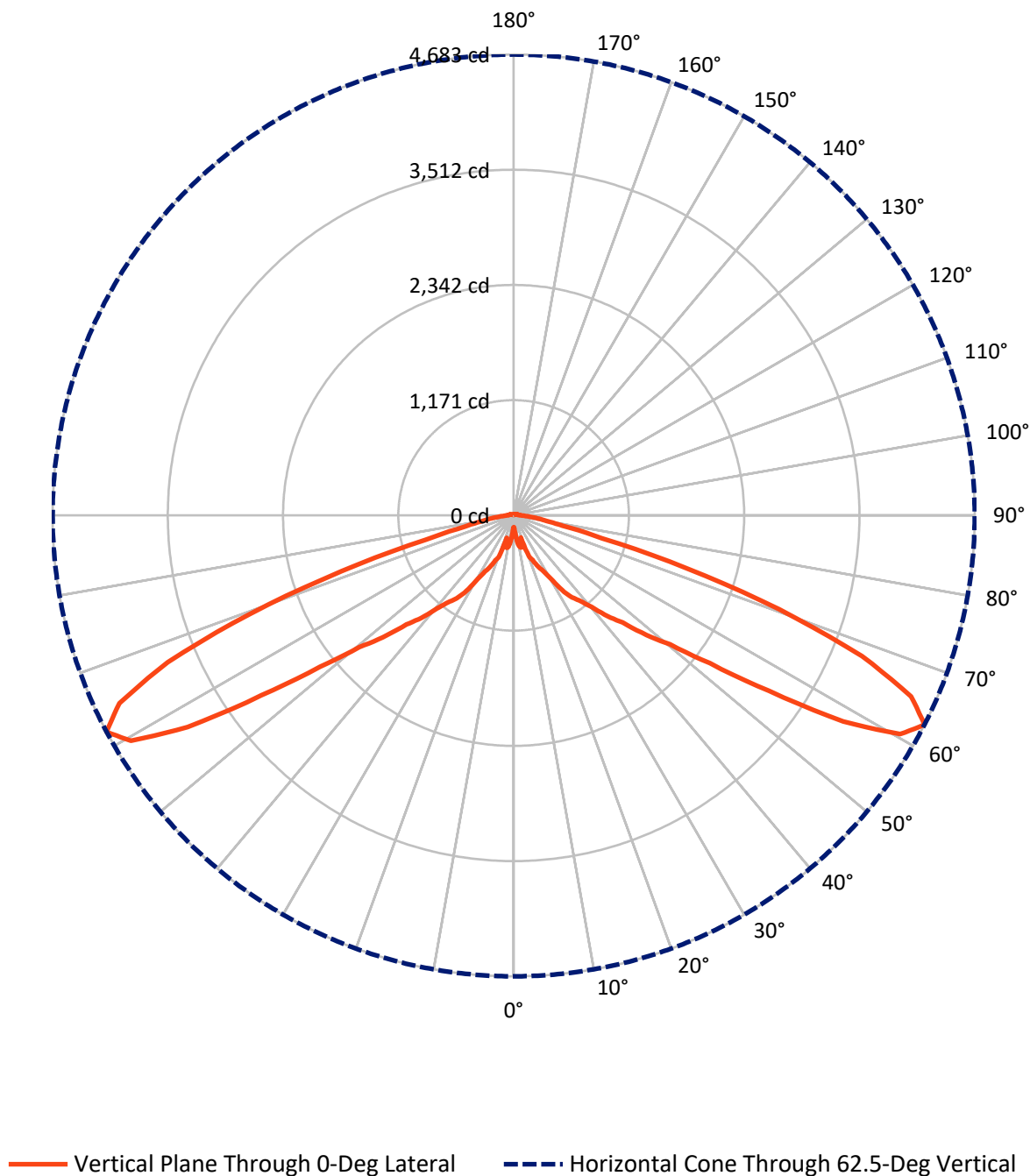


Based on 20 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - Cutoff

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## Luminous Intensity Polar Plot



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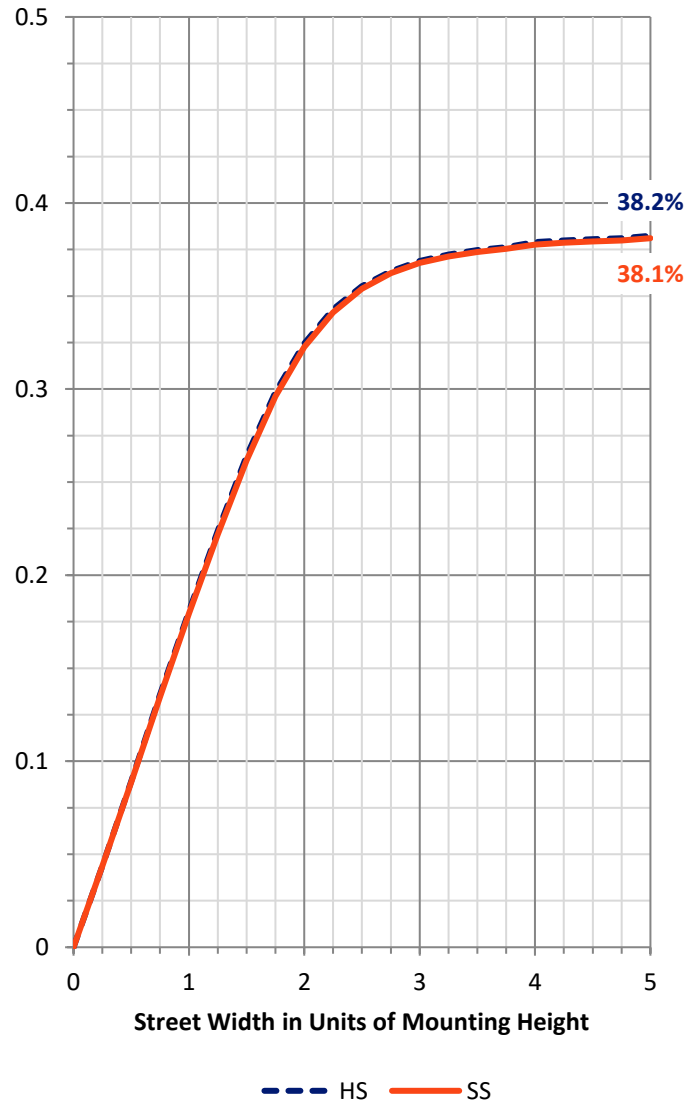
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 5381.3   | 84.5   | 5465.8  |
|                    | % Lamp | 38.4     | 0.6    | 39.0    |
| <b>Street Side</b> | Lumens | 5381.3   | 84.5   | 5465.8  |
|                    | % Lamp | 38.4     | 0.6    | 39.0    |
| <b>Total</b>       | Lumens | 10762.7  | 169.0  | 10931.7 |
|                    | % Lamp | 76.9     | 1.2    | 78.1    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 23.3    | 0.2       | 0.2    |
| 10°-20°   | 86.4    | 0.8       | 0.6    |
| 20°-30°   | 270.0   | 2.5       | 1.9    |
| 30°-40°   | 636.4   | 5.8       | 4.5    |
| 40°-50°   | 1250.3  | 11.4      | 8.9    |
| 50°-60°   | 2911.3  | 26.6      | 20.8   |
| 60°-70°   | 4113.9  | 37.6      | 29.4   |
| 70°-80°   | 1277.3  | 11.7      | 9.1    |
| 80°-90°   | 193.7   | 1.8       | 1.4    |
| 90°-100°  | 58.3    | 0.5       | 0.4    |
| 100°-110° | 40.5    | 0.4       | 0.3    |
| 110°-120° | 28.8    | 0.3       | 0.2    |
| 120°-130° | 20.0    | 0.2       | 0.1    |
| 130°-140° | 13.0    | 0.1       | 0.1    |
| 140°-150° | 6.6     | 0.1       | 0.0    |
| 150°-160° | 2.2     | 0.0       | 0.0    |
| 160°-170° | 0.6     | 0.0       | 0.0    |
| 170°-180° | 0.1     | 0.0       | 0.0    |
| 0°-90°    | 10762.7 | 98.5      | 76.9   |
| 0°-180°   | 10931.7 | 100.0     | 78.1   |

**Coefficient of Utilization**



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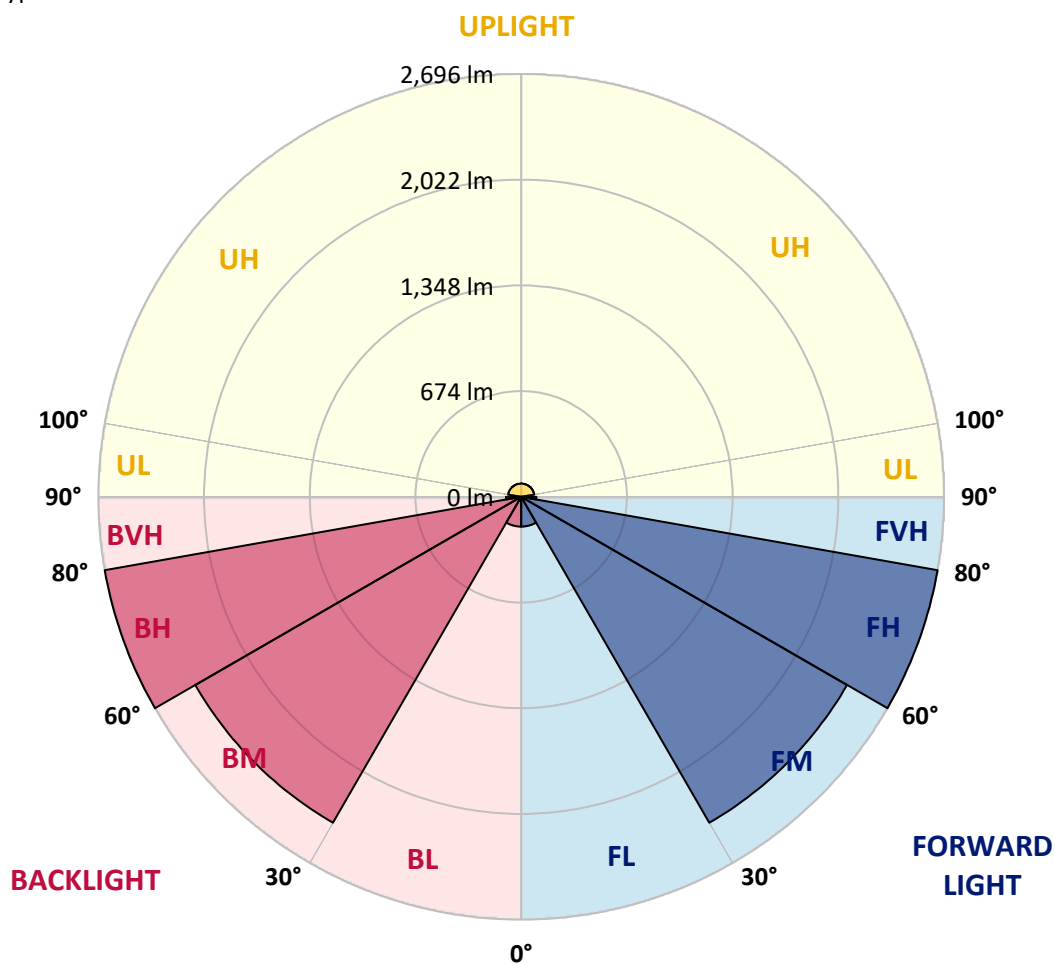
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |        |         |
|---------------|-------------|--------|--------|-------------------------|--------|---------|
|               |             |        |        | B                       | U      | G       |
| FL            | (0°-30°)    | 189.9  | 1.4    |                         |        |         |
| FM            | (30°-60°)   | 2399.0 | 17.1   |                         |        |         |
| FH            | (60°-80°)   | 2695.6 | 19.3   |                         |        | G2/5000 |
| FVH           | (80°-90°)   | 96.9   | 0.7    |                         |        | G1/100  |
| BL            | (0°-30°)    | 189.9  | 1.4    | B1/500                  |        |         |
| BM            | (30°-60°)   | 2399.0 | 17.1   | B2/2500                 |        |         |
| BH            | (60°-80°)   | 2695.6 | 19.3   | B4/5000                 |        | G2/5000 |
| BVH           | (80°-90°)   | 96.9   | 0.7    |                         |        | G1/100  |
| UL            | (90°-100°)  | 58.3   | 0.4    |                         | U3/500 |         |
| UH            | (100°-180°) | 84.5   | 0.6    |                         | U3/500 |         |
| Trapped Light |             | 3068.3 | 21.9   |                         |        |         |

**BUG Rating: B4-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

| 0°    |      |
|-------|------|
| 0°    | 118  |
| 2.5°  | 135  |
| 5°    | 194  |
| 7.5°  | 278  |
| 10°   | 322  |
| 12.5° | 336  |
| 15°   | 265  |
| 17.5° | 237  |
| 20°   | 444  |
| 22.5° | 492  |
| 25°   | 575  |
| 27.5° | 639  |
| 30°   | 742  |
| 32.5° | 907  |
| 35°   | 1023 |
| 37.5° | 1104 |
| 40°   | 1225 |
| 42.5° | 1401 |
| 45°   | 1553 |
| 47.5° | 1816 |
| 50°   | 2060 |
| 52.5° | 2496 |
| 55°   | 3150 |
| 57.5° | 3948 |
| 60°   | 4511 |
| 62.5° | 4683 |
| 65°   | 4435 |
| 67.5° | 3816 |
| 70°   | 2861 |
| 72.5° | 1837 |
| 75°   | 925  |
| 77.5° | 507  |
| 80°   | 337  |
| 82.5° | 244  |
| 85°   | 162  |
| 87.5° | 101  |
| 90°   | 72   |
| 95°   | 49   |
| 105°  | 38   |
| 115°  | 28   |
| 125°  | 22   |
| 135°  | 17   |
| 145°  | 11   |
| 155°  | 3    |
| 165°  | 2    |



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**CANDELA DISTRIBUTION (continued):**

|      |    |
|------|----|
|      | 0° |
| 175° | 1  |
| 180° | 1  |

(END OF REPORT)