

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P588530

Luminaire Tested: **ARC-CA6-80-740-U-55-X-5-X**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-80-740-U-55-X-5-X  
Description: GENERATIONS SERIES AVENUE WITH NO CAGE AND TYPE V REFRACTOR  
Light Source: (6) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11347 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U4 - G5  
  
Input Watts (W): 84.4  
Input Voltage (V): 120  
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: 25 FT



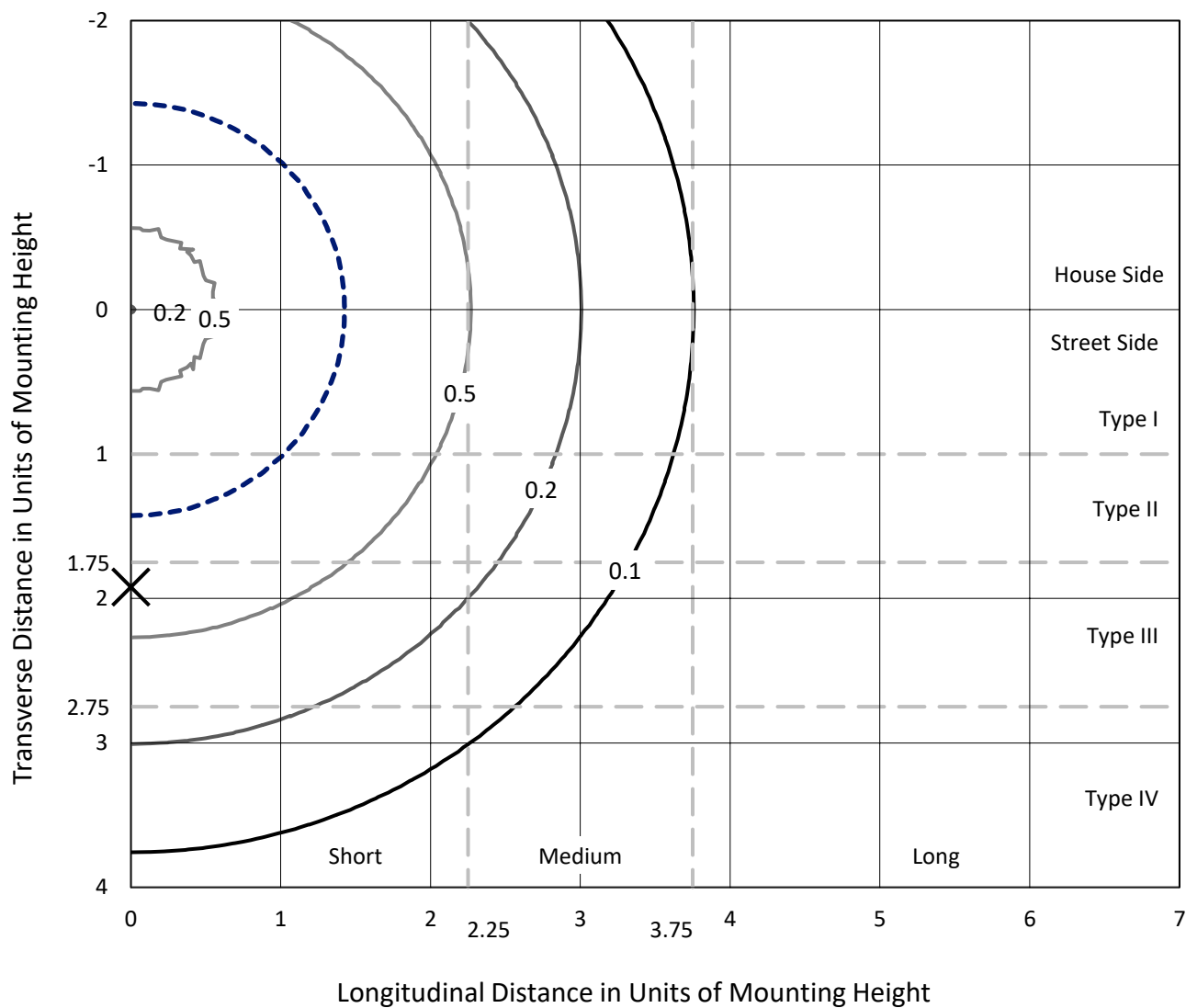
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

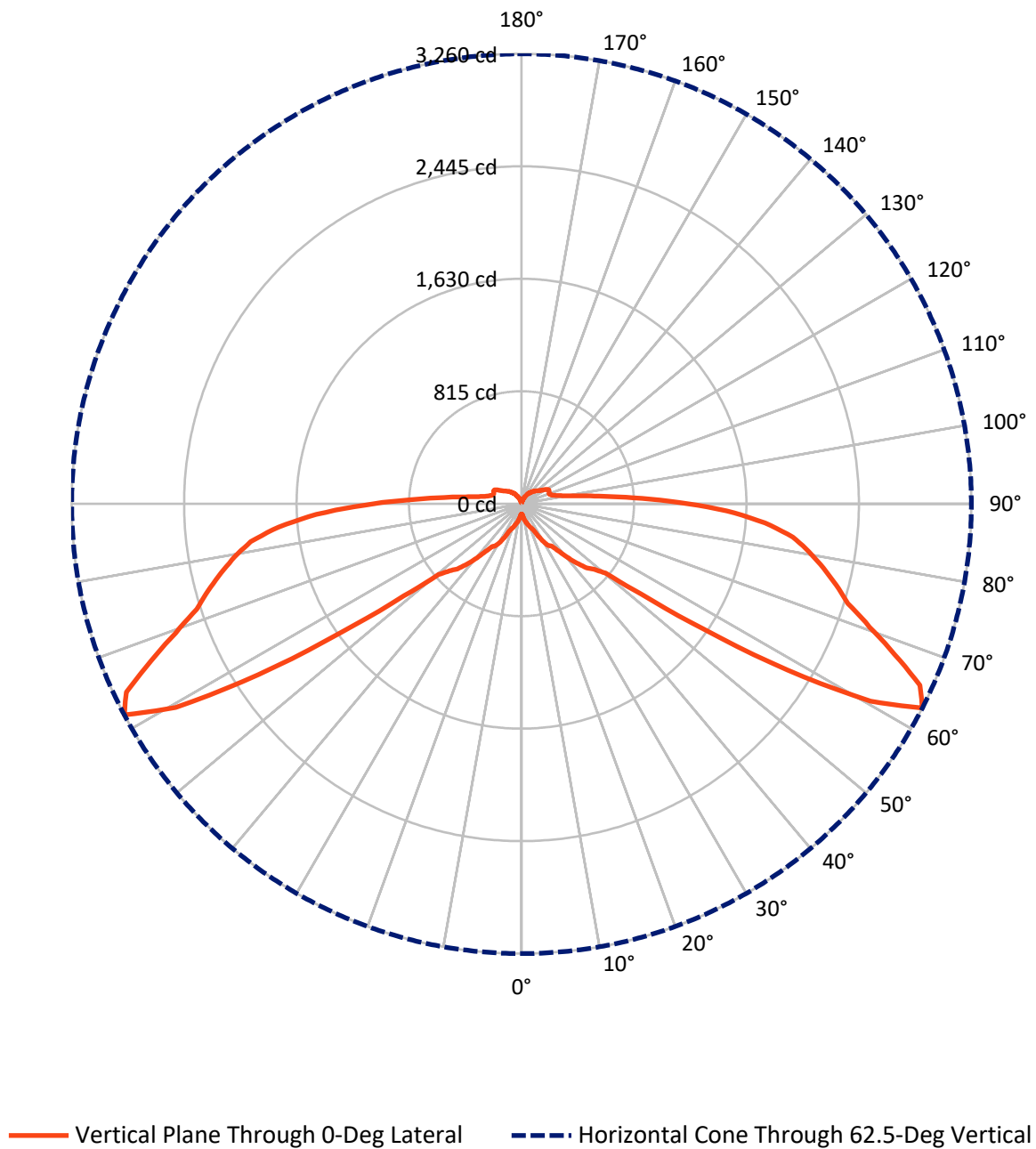


Based on 20 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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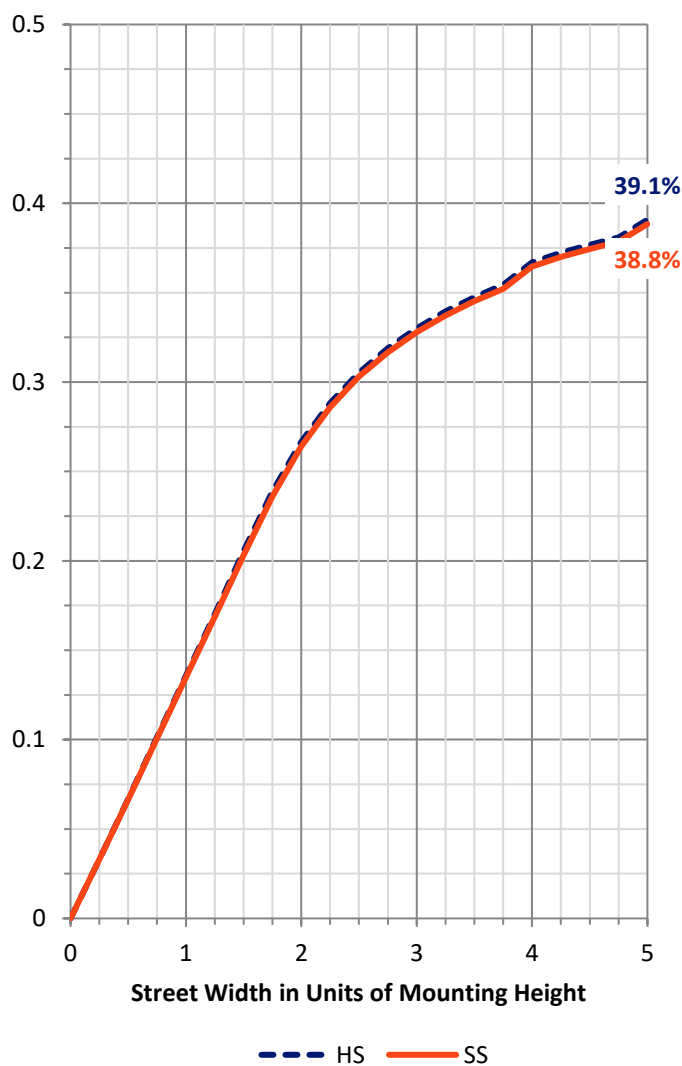
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4925.5   | 748.1  | 5673.5  |
|                    | % Fixture | 43.4     | 6.6    | 50.0    |
| <b>Street Side</b> | Lumens    | 4925.5   | 748.1  | 5673.5  |
|                    | % Fixture | 43.4     | 6.6    | 50.0    |
| <b>Total</b>       | Lumens    | 9850.9   | 1496.1 | 11347.0 |
|                    | % Fixture | 86.8     | 13.2   | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 9.3     | 0.1       |
| 10°-20°   | 43.0    | 0.4       |
| 20°-30°   | 111.8   | 1.0       |
| 30°-40°   | 251.4   | 2.2       |
| 40°-50°   | 508.0   | 4.5       |
| 50°-60°   | 1547.0  | 13.6      |
| 60°-70°   | 3009.8  | 26.5      |
| 70°-80°   | 2499.3  | 22.0      |
| 80°-90°   | 1871.2  | 16.5      |
| 90°-100°  | 685.3   | 6.0       |
| 100°-110° | 258.0   | 2.3       |
| 110°-120° | 215.1   | 1.9       |
| 120°-130° | 151.5   | 1.3       |
| 130°-140° | 98.2    | 0.9       |
| 140°-150° | 56.9    | 0.5       |
| 150°-160° | 24.5    | 0.2       |
| 160°-170° | 6.2     | 0.1       |
| 170°-180° | 0.5     | 0.0       |
| 0°-90°    | 9850.9  | 86.8      |
| 0°-180°   | 11347.0 | 100.0     |

**Coefficient of Utilization**



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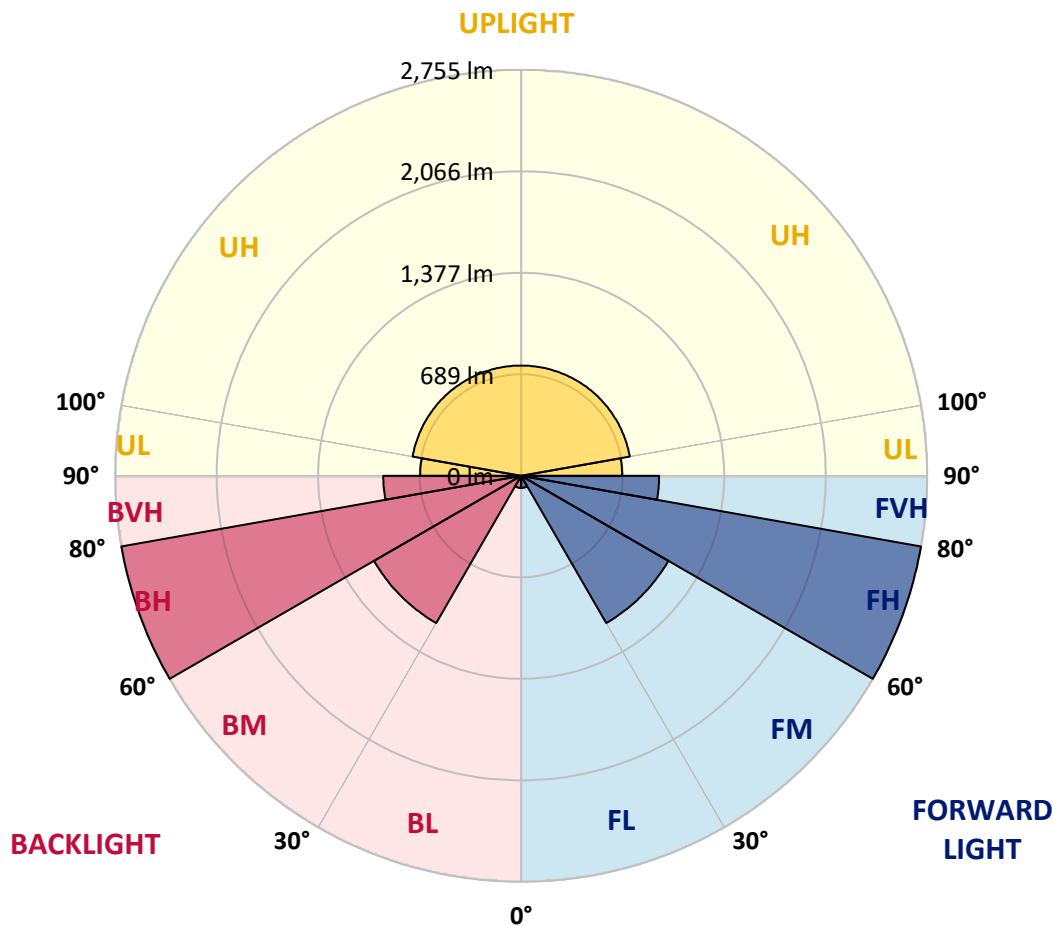
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 82.1   | 0.7       |                         |         |         |
| FM   | (30°-60°)   | 1153.2 | 10.2      |                         |         |         |
| FH   | (60°-80°)   | 2754.6 | 24.3      |                         |         | G2/5000 |
| FVH  | (80°-90°)   | 935.6  | 8.2       |                         |         | G5      |
| BL   | (0°-30°)    | 82.1   | 0.7       | B0/110                  |         |         |
| BM   | (30°-60°)   | 1153.2 | 10.2      | B2/2500                 |         |         |
| BH   | (60°-80°)   | 2754.6 | 24.3      | B4/5000                 |         | G2/5000 |
| BVH  | (80°-90°)   | 935.6  | 8.2       |                         |         | G5      |
| UL   | (90°-100°)  | 685.3  | 6.0       |                         | U4/1000 |         |
| UH   | (100°-180°) | 748.1  | 6.6       |                         | U4/1000 |         |

**BUG Rating: B4-U4-G5**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 75.6   |
| 2.5°   | 77.1   |
| 5°     | 86.2   |
| 7.5°   | 102.9  |
| 10°    | 118.0  |
| 12.5°  | 133.1  |
| 15°    | 148.2  |
| 17.5°  | 163.4  |
| 20°    | 181.5  |
| 22.5°  | 195.1  |
| 25°    | 223.9  |
| 27.5°  | 275.3  |
| 30°    | 326.7  |
| 32.5°  | 361.5  |
| 35°    | 376.6  |
| 37.5°  | 432.6  |
| 40°    | 508.2  |
| 42.5°  | 586.9  |
| 45°    | 662.5  |
| 47.5°  | 710.9  |
| 50°    | 789.5  |
| 52.5°  | 1083.0 |
| 55°    | 1606.3 |
| 57.5°  | 2274.9 |
| 60°    | 2907.1 |
| 62.5°  | 3259.5 |
| 65°    | 3171.8 |
| 67.5°  | 2916.2 |
| 70°    | 2675.7 |
| 72.5°  | 2473.0 |
| 75°    | 2355.0 |
| 77.5°  | 2235.5 |
| 80°    | 2113.0 |
| 82.5°  | 1981.4 |
| 85°    | 1769.7 |
| 87.5°  | 1488.3 |
| 90°    | 1137.4 |
| 92.5°  | 810.7  |
| 95°    | 564.2  |
| 97.5°  | 408.4  |
| 100°   | 313.1  |
| 102.5° | 260.2  |
| 105°   | 232.9  |
| 107.5° | 217.8  |
| 110°   | 213.3  |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 112.5° | 216.3 |
| 115°   | 222.3 |
| 117.5° | 219.3 |
| 120°   | 204.2 |
| 122.5° | 181.5 |
| 125°   | 164.9 |
| 127.5° | 152.8 |
| 130°   | 143.7 |
| 132.5° | 134.6 |
| 135°   | 127.1 |
| 137.5° | 118.0 |
| 140°   | 107.4 |
| 142.5° | 98.3  |
| 145°   | 90.8  |
| 147.5° | 81.7  |
| 150°   | 69.6  |
| 152.5° | 60.5  |
| 155°   | 51.4  |
| 157.5° | 43.9  |
| 160°   | 34.8  |
| 162.5° | 27.2  |
| 165°   | 19.7  |
| 167.5° | 13.6  |
| 170°   | 9.1   |
| 172.5° | 4.5   |
| 175°   | 3.0   |
| 177.5° | 4.5   |
| 180°   | 4.5   |

(END OF REPORT)