

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: P588362

Luminaire Tested: **ARC-CA6-100-740-U-55-X-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588362
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-CA6-100-740-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: 13694.1 lumens
Efficiency: N/A
Efficacy: 132.1 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

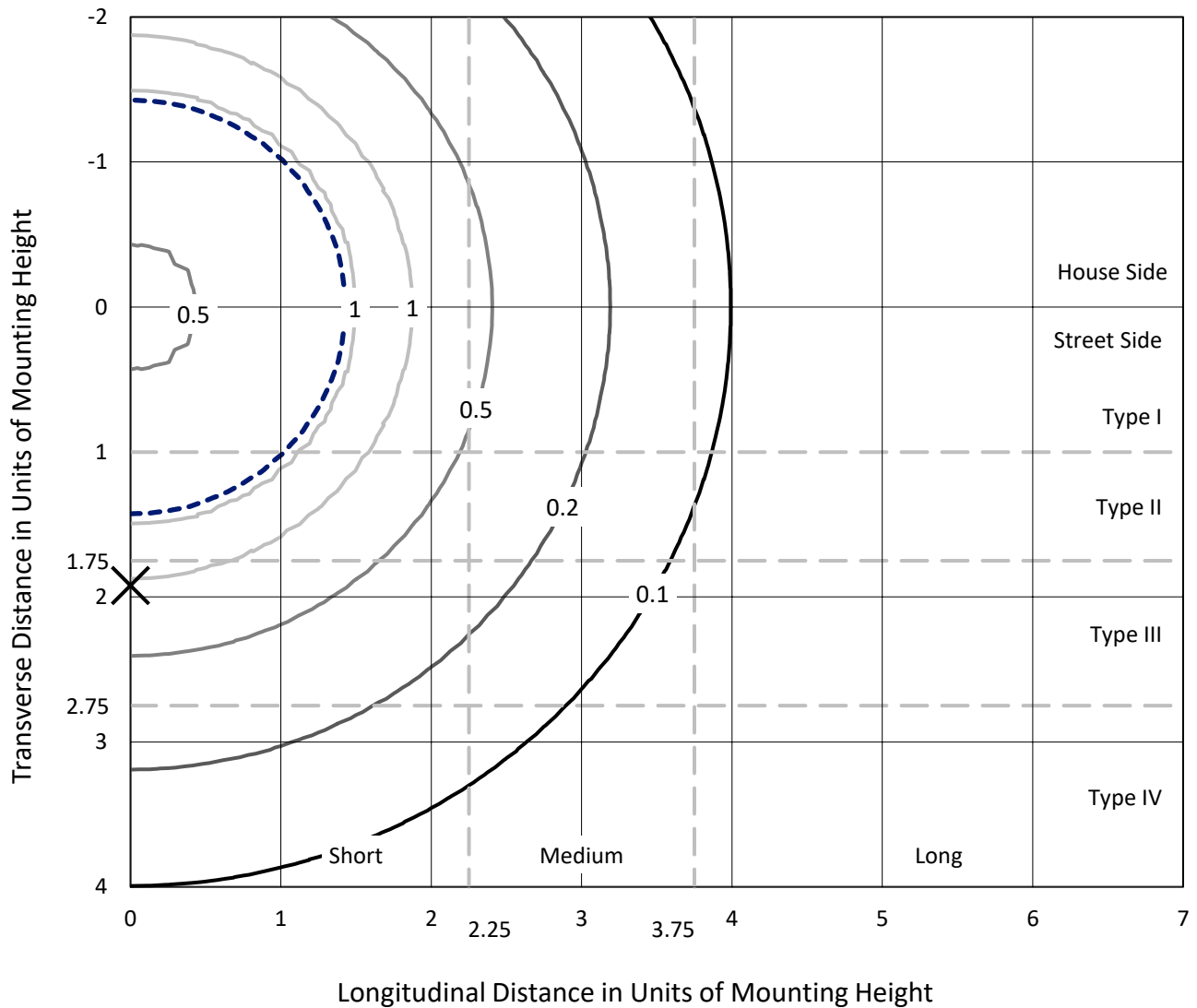
Input Watts (W): 103.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

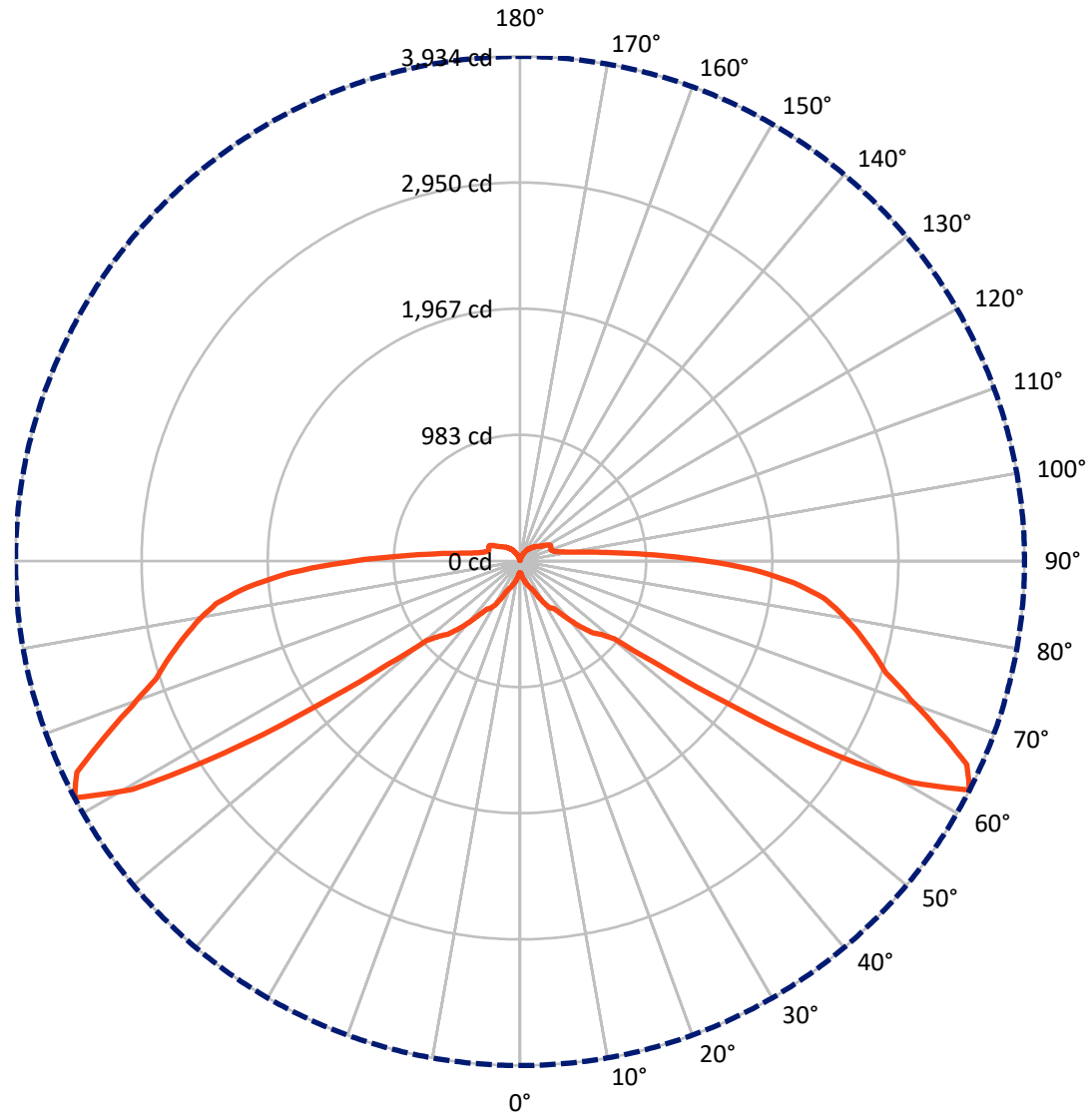
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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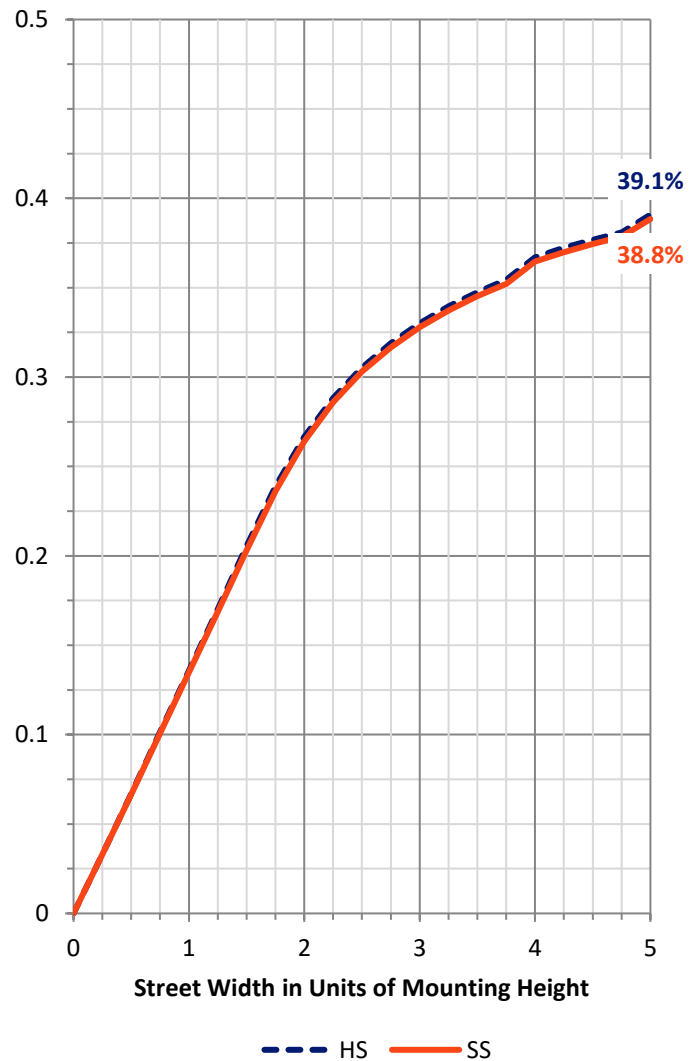
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5944.2 | 902.8 | 6847.0 |
| | % Fixture | 43.4 | 6.6 | 50.0 |
| Street Side | Lumens | 5944.2 | 902.8 | 6847.0 |
| | % Fixture | 43.4 | 6.6 | 50.0 |
| Total | Lumens | 11888.5 | 1805.6 | 13694.1 |
| | % Fixture | 86.8 | 13.2 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 11.3 | 0.1 |
| 10°-20° | 51.9 | 0.4 |
| 20°-30° | 134.9 | 1.0 |
| 30°-40° | 303.5 | 2.2 |
| 40°-50° | 613.1 | 4.5 |
| 50°-60° | 1867.0 | 13.6 |
| 60°-70° | 3632.3 | 26.5 |
| 70°-80° | 3016.3 | 22.0 |
| 80°-90° | 2258.3 | 16.5 |
| 90°-100° | 827.0 | 6.0 |
| 100°-110° | 311.4 | 2.3 |
| 110°-120° | 259.6 | 1.9 |
| 120°-130° | 182.8 | 1.3 |
| 130°-140° | 118.5 | 0.9 |
| 140°-150° | 68.6 | 0.5 |
| 150°-160° | 29.6 | 0.2 |
| 160°-170° | 7.5 | 0.1 |
| 170°-180° | 0.6 | 0.0 |
| 0°-90° | 11888.5 | 86.8 |
| 0°-180° | 13694.1 | 100.0 |

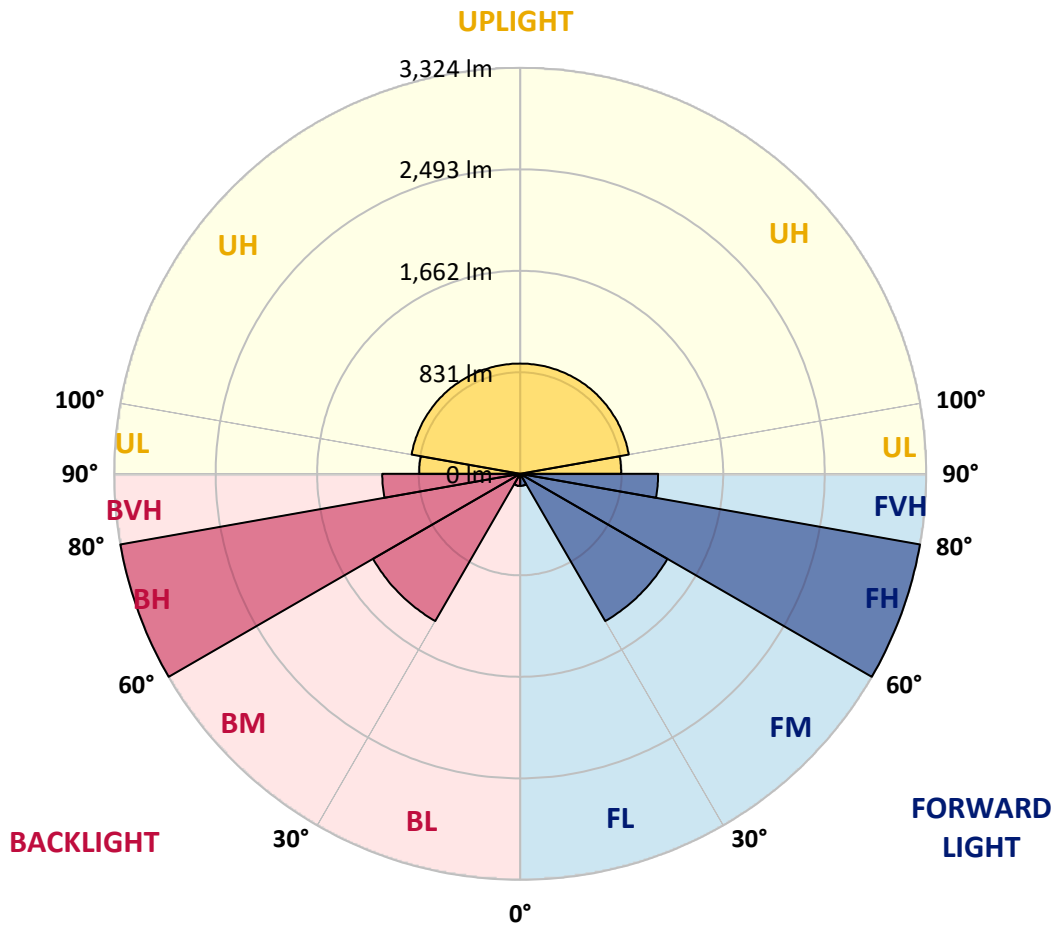


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 99.1 | 0.7 | | | |
| FM (30°-60°) | 1391.7 | 10.2 | | | |
| FH (60°-80°) | 3324.3 | 24.3 | | | G2/5000 |
| FVH (80°-90°) | 1129.1 | 8.2 | | | G5 |
| BL (0°-30°) | 99.1 | 0.7 | B0/110 | | |
| BM (30°-60°) | 1391.7 | 10.2 | B2/2500 | | |
| BH (60°-80°) | 3324.3 | 24.3 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 1129.1 | 8.2 | | | G5 |
| UL (90°-100°) | 827.0 | 6.0 | | U4/1000 | |
| UH (100°-180°) | 902.8 | 6.6 | | U4/1000 | |

BUG Rating: B4-U4-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|--------|
| 0° | 91.3 |
| 2.5° | 93.1 |
| 5° | 104.0 |
| 7.5° | 124.1 |
| 10° | 142.4 |
| 12.5° | 160.6 |
| 15° | 178.9 |
| 17.5° | 197.1 |
| 20° | 219.0 |
| 22.5° | 235.5 |
| 25° | 270.2 |
| 27.5° | 332.2 |
| 30° | 394.3 |
| 32.5° | 436.3 |
| 35° | 454.5 |
| 37.5° | 522.1 |
| 40° | 613.3 |
| 42.5° | 708.3 |
| 45° | 799.5 |
| 47.5° | 857.9 |
| 50° | 952.9 |
| 52.5° | 1307.0 |
| 55° | 1938.6 |
| 57.5° | 2745.4 |
| 60° | 3508.4 |
| 62.5° | 3933.7 |
| 65° | 3827.8 |
| 67.5° | 3519.3 |
| 70° | 3229.1 |
| 72.5° | 2984.5 |
| 75° | 2842.1 |
| 77.5° | 2697.9 |
| 80° | 2550.1 |
| 82.5° | 2391.3 |
| 85° | 2135.7 |
| 87.5° | 1796.2 |
| 90° | 1372.7 |
| 92.5° | 978.4 |
| 95° | 680.9 |
| 97.5° | 492.9 |
| 100° | 377.9 |
| 102.5° | 314.0 |
| 105° | 281.1 |
| 107.5° | 262.9 |
| 110° | 257.4 |

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 261.0 |
| 115° | 268.3 |
| 117.5° | 264.7 |
| 120° | 246.4 |
| 122.5° | 219.0 |
| 125° | 199.0 |
| 127.5° | 184.4 |
| 130° | 173.4 |
| 132.5° | 162.5 |
| 135° | 153.3 |
| 137.5° | 142.4 |
| 140° | 129.6 |
| 142.5° | 118.7 |
| 145° | 109.5 |
| 147.5° | 98.6 |
| 150° | 84.0 |
| 152.5° | 73.0 |
| 155° | 62.1 |
| 157.5° | 52.9 |
| 160° | 42.0 |
| 162.5° | 32.9 |
| 165° | 23.7 |
| 167.5° | 16.4 |
| 170° | 11.0 |
| 172.5° | 5.5 |
| 175° | 3.7 |
| 177.5° | 5.5 |
| 180° | 5.5 |

(END OF REPORT)