

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: P14210

Luminaire Tested: **ACN/CLB/ARC-080-LED-E-U-55-X-1-X-BK-3000**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14210
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ACN/CLB/ARC-080-LED-E-U-55-X-1-X-BK-3000
Description: STREETWORKS POST TOP WITH A TYPE V PRISMATIC REFRACTOR
Light Source: [6] 3000K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15994.9 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.21')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U5 - G5

Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (A_{in}): 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

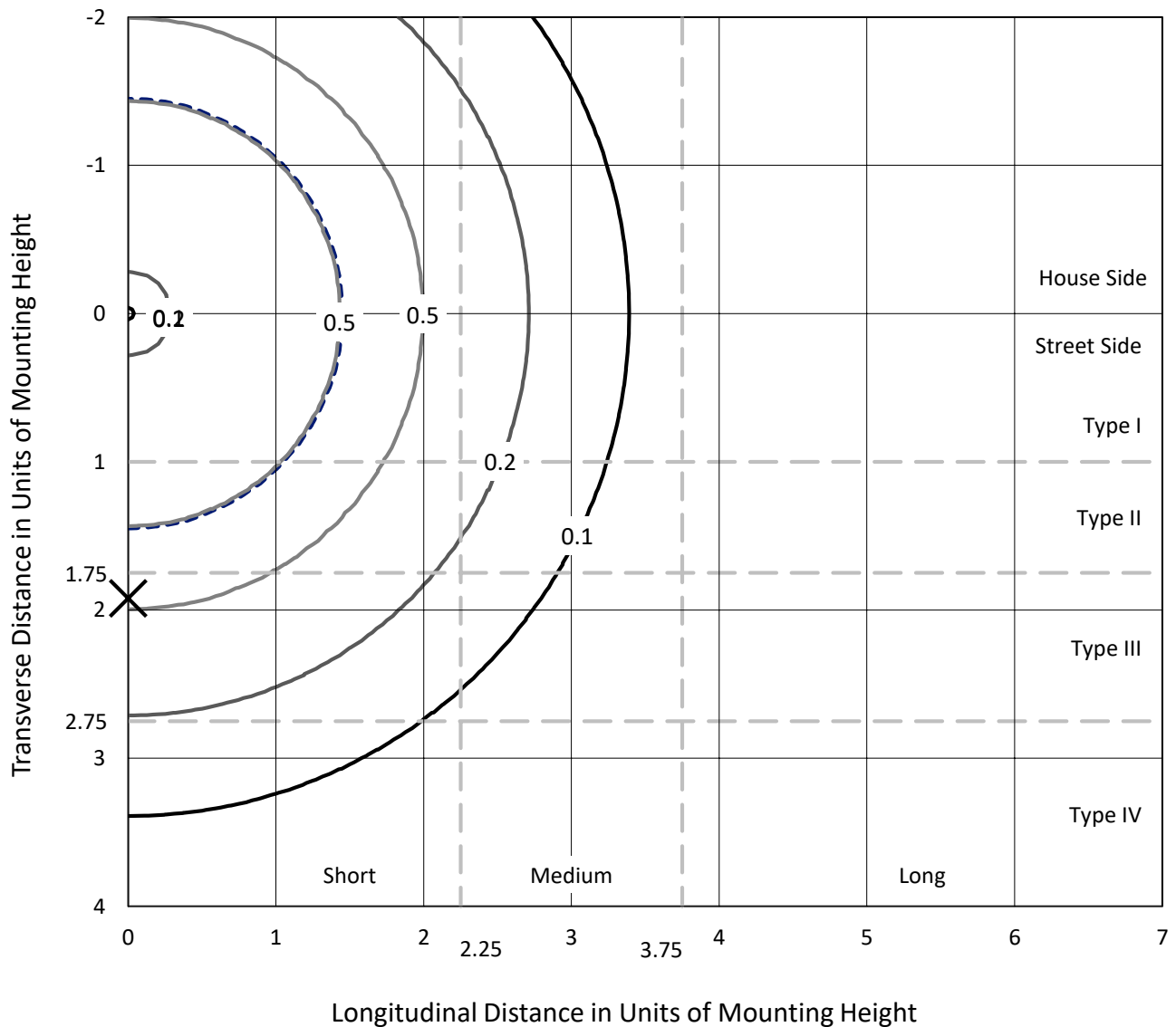


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

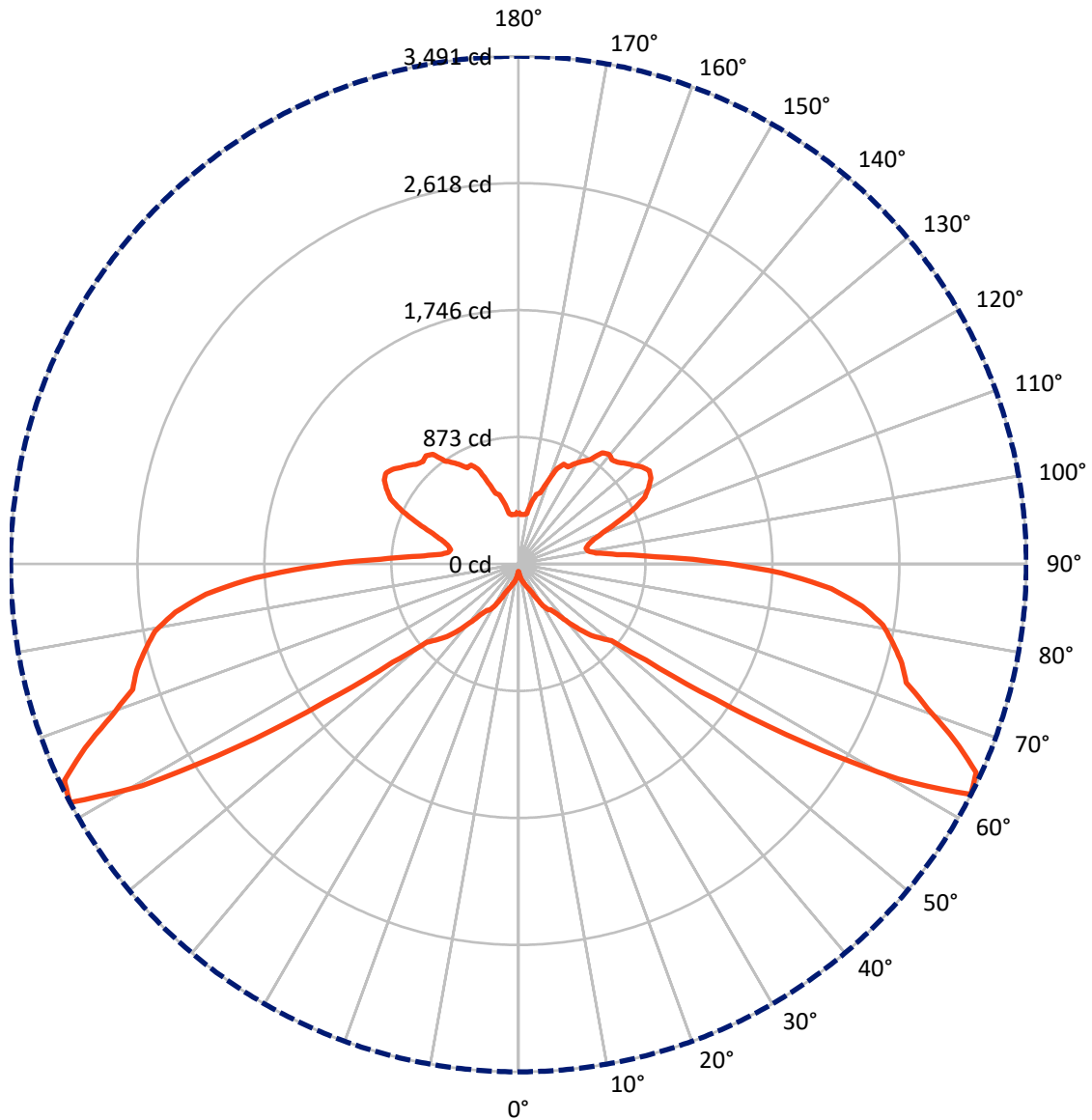


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - Non-Cutoff

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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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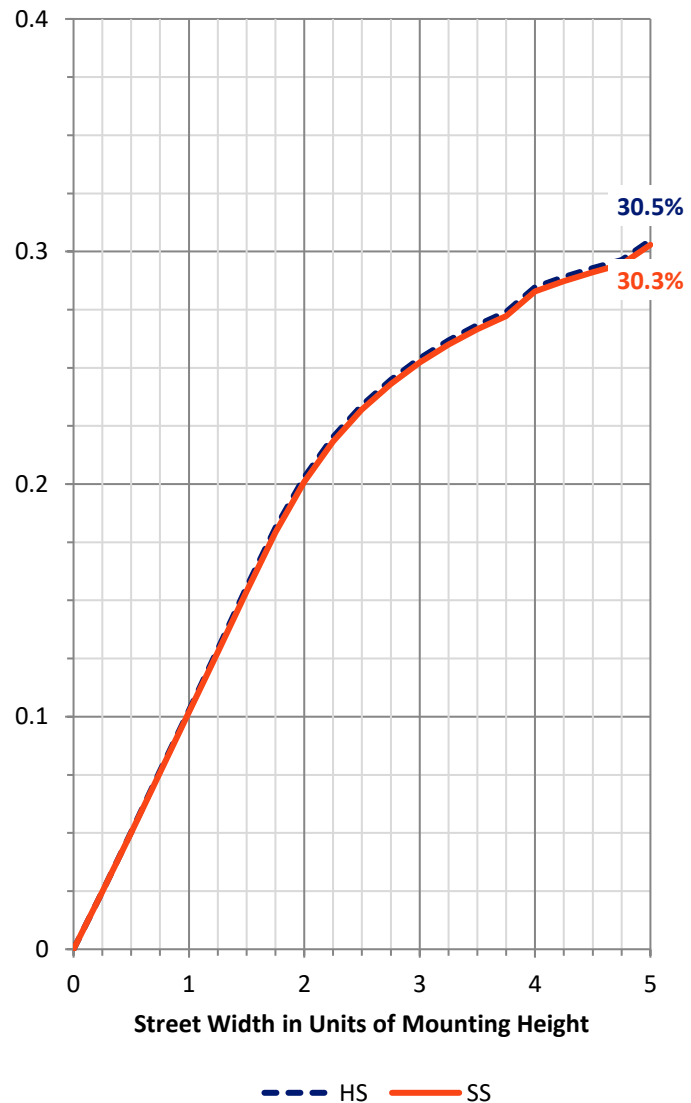
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5473.8 | 2523.7 | 7997.4 |
| | % Fixture | 34.2 | 15.8 | 50.0 |
| Street Side | Lumens | 5473.8 | 2523.7 | 7997.4 |
| | % Fixture | 34.2 | 15.8 | 50.0 |
| Total | Lumens | 10947.5 | 5047.3 | 15994.9 |
| | % Fixture | 68.4 | 31.6 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8.1 | 0.1 |
| 10°-20° | 39.5 | 0.2 |
| 20°-30° | 109.4 | 0.7 |
| 30°-40° | 257.9 | 1.6 |
| 40°-50° | 535.1 | 3.3 |
| 50°-60° | 1581.3 | 9.9 |
| 60°-70° | 3269.1 | 20.4 |
| 70°-80° | 2883.5 | 18.0 |
| 80°-90° | 2263.7 | 14.2 |
| 90°-100° | 845.2 | 5.3 |
| 100°-110° | 547.2 | 3.4 |
| 110°-120° | 849.3 | 5.3 |
| 120°-130° | 967.9 | 6.1 |
| 130°-140° | 768.9 | 4.8 |
| 140°-150° | 559.3 | 3.5 |
| 150°-160° | 338.2 | 2.1 |
| 160°-170° | 138.5 | 0.9 |
| 170°-180° | 32.9 | 0.2 |
| 0°-90° | 10947.5 | 68.4 |
| 0°-180° | 15994.9 | 100.0 |



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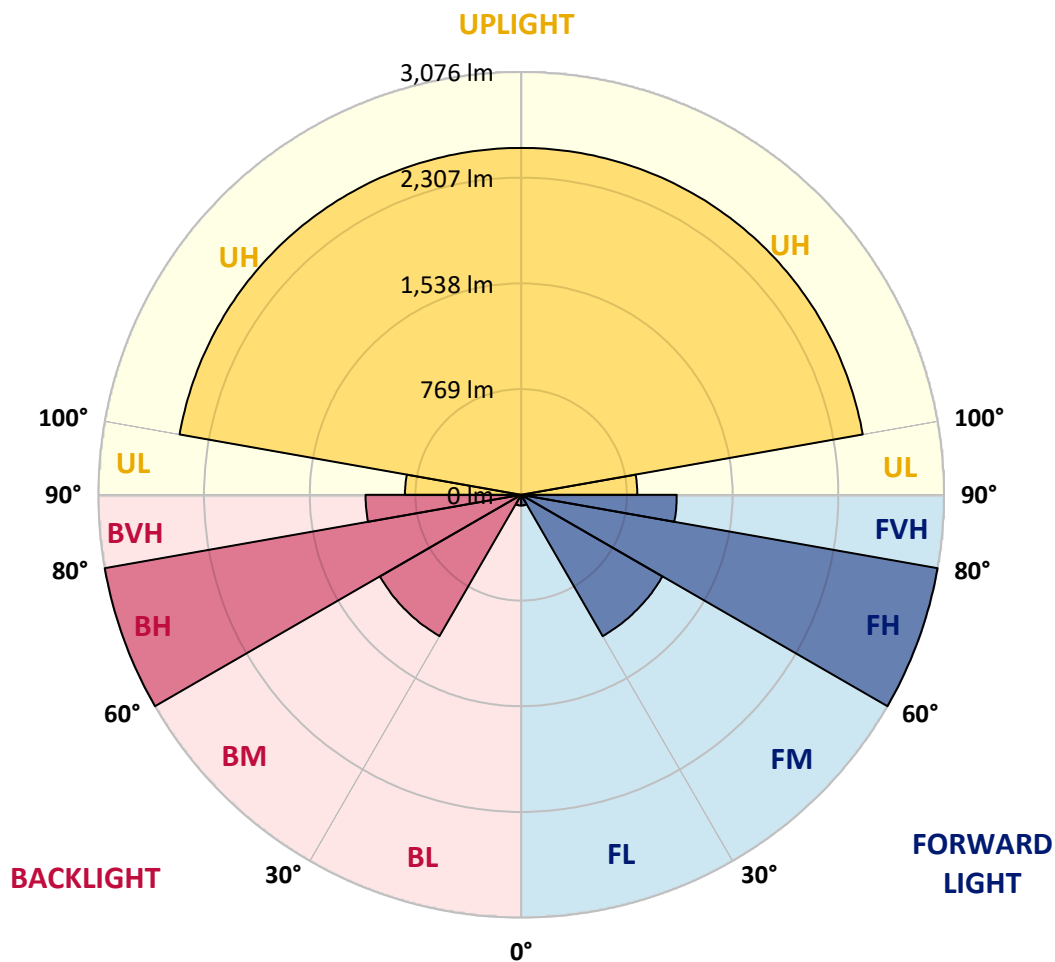
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 78.5 | 0.5 | | | |
| FM | (30°-60°) | 1187.1 | 7.4 | | | |
| FH | (60°-80°) | 3076.3 | 19.2 | | | G2/5000 |
| FVH | (80°-90°) | 1131.8 | 7.1 | | | G5 |
| BL | (0°-30°) | 78.5 | 0.5 | B0/110 | | |
| BM | (30°-60°) | 1187.1 | 7.4 | B2/2500 | | |
| BH | (60°-80°) | 3076.3 | 19.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 1131.8 | 7.1 | | | G5 |
| UL | (90°-100°) | 845.2 | 5.3 | | U4/1000 | |
| UH | (100°-180°) | 2523.7 | 15.8 | | U5 | |

BUG Rating: B4-U5-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|--------|
| 0° | 51.5 |
| 2.5° | 62.1 |
| 5° | 74.1 |
| 7.5° | 90.8 |
| 10° | 105.9 |
| 12.5° | 122.6 |
| 15° | 134.6 |
| 17.5° | 149.8 |
| 20° | 169.4 |
| 22.5° | 189.2 |
| 25° | 216.4 |
| 27.5° | 270.8 |
| 30° | 331.3 |
| 32.5° | 372.2 |
| 35° | 387.3 |
| 37.5° | 441.9 |
| 40° | 523.5 |
| 42.5° | 611.4 |
| 45° | 699.2 |
| 47.5° | 761.1 |
| 50° | 827.7 |
| 52.5° | 1097.1 |
| 55° | 1635.8 |
| 57.5° | 2315.4 |
| 60° | 3002.4 |
| 62.5° | 3491.3 |
| 65° | 3457.9 |
| 67.5° | 3235.4 |
| 70° | 2985.8 |
| 72.5° | 2787.6 |
| 75° | 2722.5 |
| 77.5° | 2634.7 |
| 80° | 2540.9 |
| 82.5° | 2380.4 |
| 85° | 2157.9 |
| 87.5° | 1811.5 |
| 90° | 1368.0 |
| 92.5° | 948.8 |
| 95° | 679.5 |
| 97.5° | 538.7 |
| 100° | 487.3 |
| 102.5° | 476.7 |
| 105° | 498.0 |
| 107.5° | 541.8 |
| 110° | 622.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 112.5° | 740.1 |
| 115° | 877.7 |
| 117.5° | 985.1 |
| 120° | 1039.6 |
| 122.5° | 1086.5 |
| 125° | 1104.8 |
| 127.5° | 1082.0 |
| 130° | 1044.1 |
| 132.5° | 1013.8 |
| 135° | 979.1 |
| 137.5° | 962.5 |
| 140° | 979.1 |
| 142.5° | 956.4 |
| 145° | 870.2 |
| 147.5° | 832.3 |
| 150° | 792.9 |
| 152.5° | 749.1 |
| 155° | 753.6 |
| 157.5° | 706.7 |
| 160° | 597.8 |
| 162.5° | 511.5 |
| 165° | 493.3 |
| 167.5° | 431.3 |
| 170° | 352.6 |
| 172.5° | 342.0 |
| 175° | 342.0 |
| 177.5° | 340.5 |
| 180° | 363.2 |

(END OF REPORT)