

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: P256609

Luminaire Tested: **CST-8-3-D-U-T5R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-8-3-D-U-T5R-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE V ROUND OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34040 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 226
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

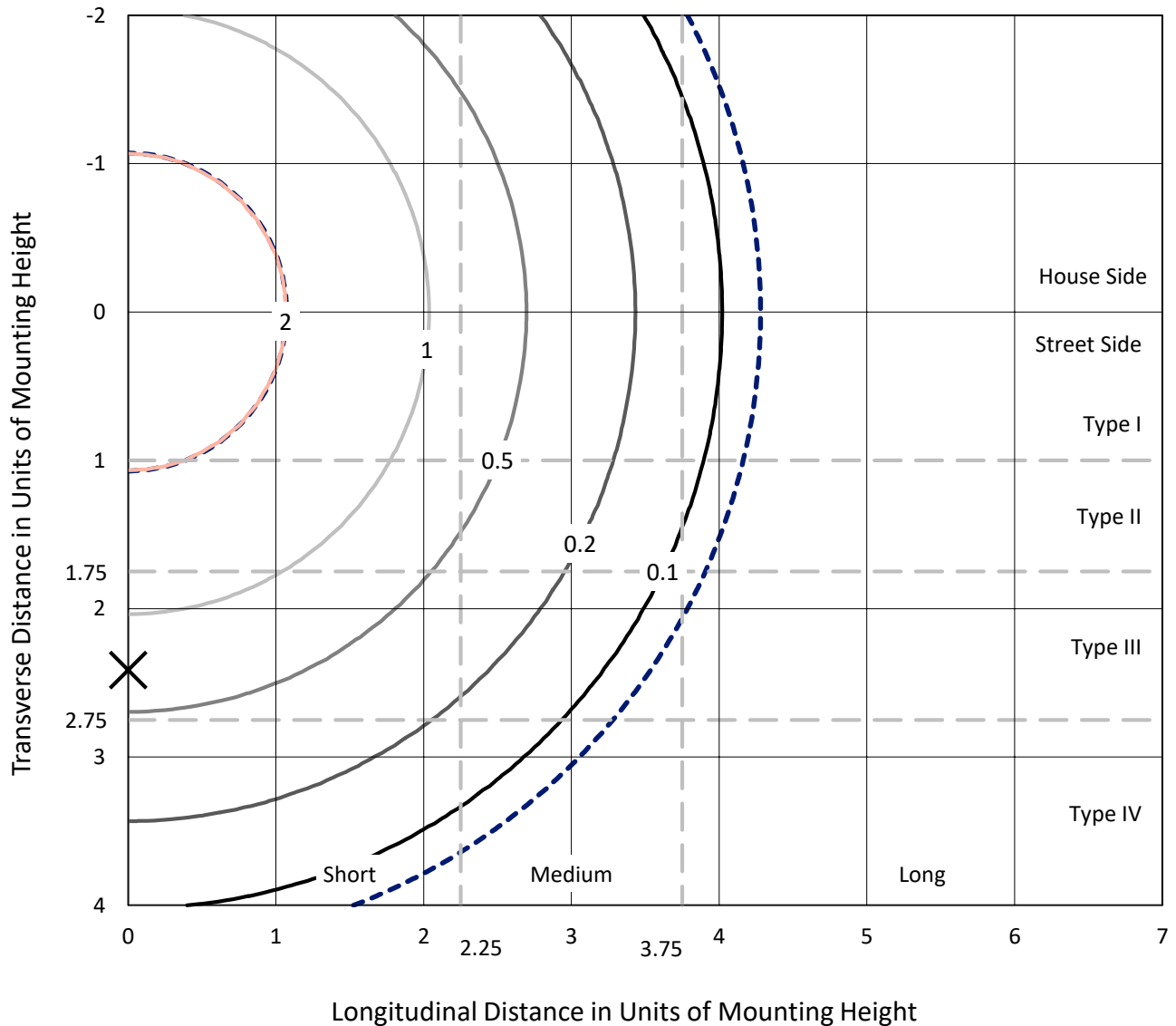


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

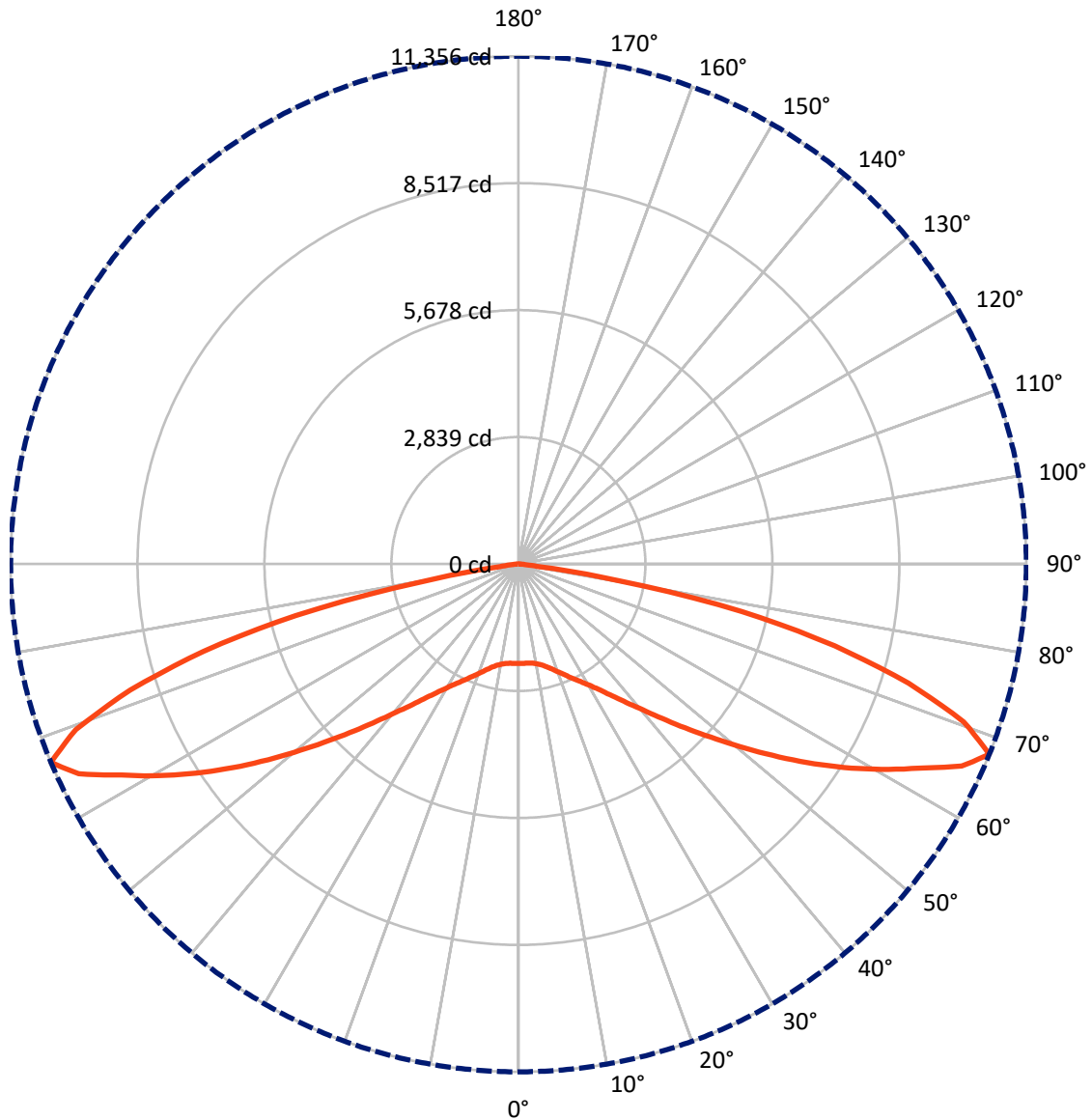


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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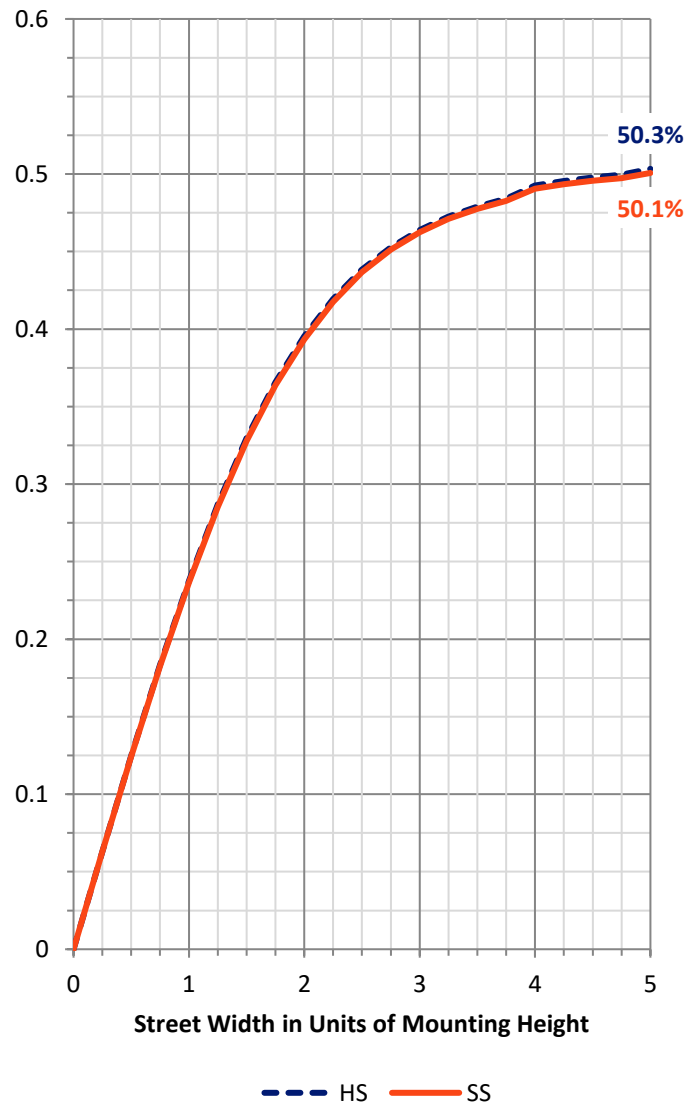
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17020.0 | 0.0 | 17020.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17020.0 | 0.0 | 17020.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34040.0 | 0.0 | 34040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 213.7 | 0.6 |
| 10°-20° | 685.0 | 2.0 |
| 20°-30° | 1325.1 | 3.9 |
| 30°-40° | 2311.5 | 6.8 |
| 40°-50° | 4103.0 | 12.1 |
| 50°-60° | 7066.8 | 20.8 |
| 60°-70° | 10495.0 | 30.8 |
| 70°-80° | 7364.9 | 21.6 |
| 80°-90° | 475.1 | 1.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 34040.0 | 100.0 |
| 0°-180° | 34040.0 | 100.0 |



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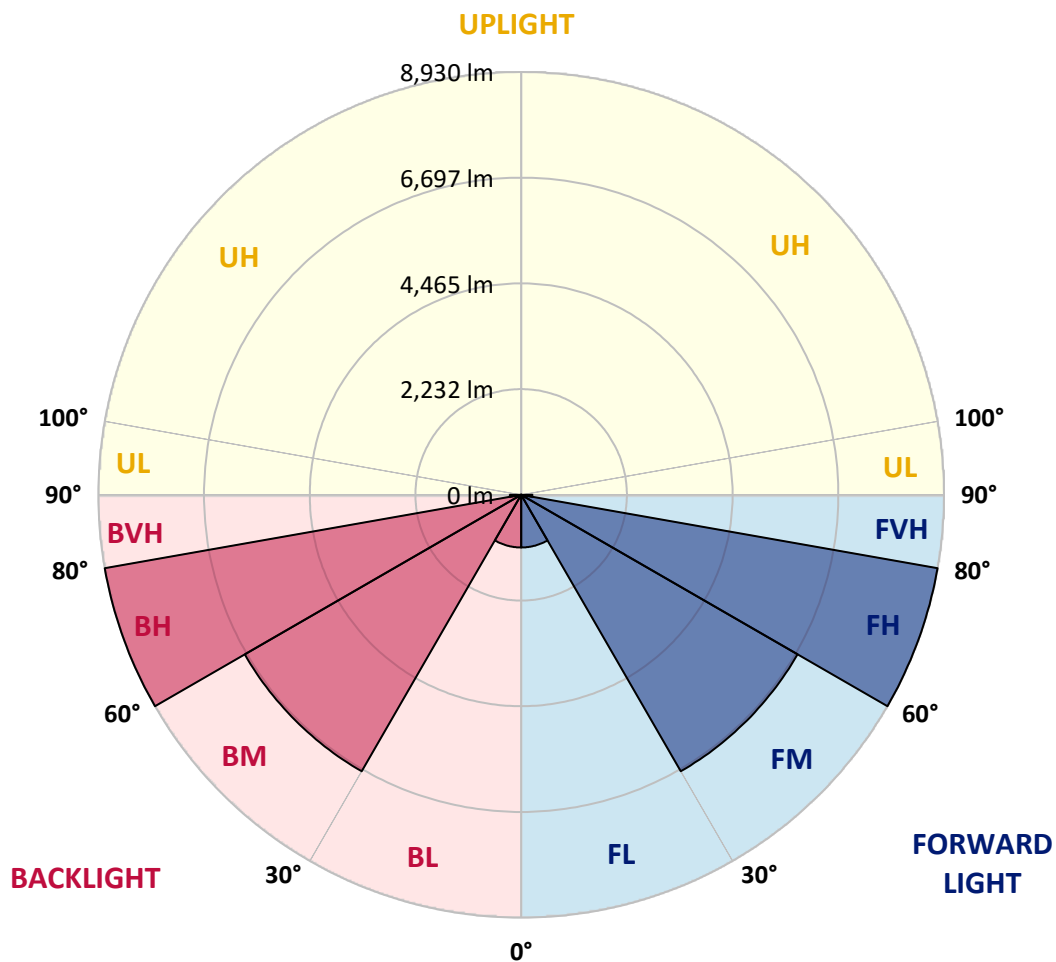
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1111.9 | 3.3 | | | |
| FM | (30°-60°) | 6740.6 | 19.8 | | | |
| FH | (60°-80°) | 8930.0 | 26.2 | | | G4/12000 |
| FVH | (80°-90°) | 237.5 | 0.7 | | | G3/500 |
| BL | (0°-30°) | 1111.9 | 3.3 | B3/2500 | | |
| BM | (30°-60°) | 6740.6 | 19.8 | B4/8500 | | |
| BH | (60°-80°) | 8930.0 | 26.2 | B5 | | G4/12000 |
| BVH | (80°-90°) | 237.5 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 2220.4 |
| 2.5° | 2223.4 |
| 5° | 2225.4 |
| 7.5° | 2237.6 |
| 10° | 2268.0 |
| 12.5° | 2315.6 |
| 15° | 2384.6 |
| 17.5° | 2475.8 |
| 20° | 2582.2 |
| 22.5° | 2701.8 |
| 25° | 2834.5 |
| 27.5° | 2981.5 |
| 30° | 3151.7 |
| 32.5° | 3360.5 |
| 35° | 3619.9 |
| 37.5° | 3931.0 |
| 40° | 4284.7 |
| 42.5° | 4718.4 |
| 45° | 5224.1 |
| 47.5° | 5784.5 |
| 50° | 6412.9 |
| 52.5° | 7107.0 |
| 55° | 7836.7 |
| 57.5° | 8582.6 |
| 60° | 9325.4 |
| 62.5° | 10053.0 |
| 65° | 10892.1 |
| 67.5° | 11356.3 |
| 70° | 10563.8 |
| 72.5° | 9122.7 |
| 75° | 7304.7 |
| 77.5° | 5107.6 |
| 80° | 2297.4 |
| 82.5° | 418.5 |
| 85° | 127.7 |
| 87.5° | 55.7 |
| 90° | 0.0 |

(END OF REPORT)