

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: McGRAW-EDISON

Report Number: P14212

Luminaire Tested: **GLC-080-LED-E1-5-SPUN-X-3000**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14212
Test Lab: INNOVATION CENTER-P1
Issue Date: 6/29/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLC-080-LED-E1-5-SPUN-X-3000
Description: MCGRAW-EDISON POST TOP WITH A TYPE V SOLID TOP REFRACTOR
Light Source: [6] 3000K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14170.5 lumens
Efficiency: N/A
Efficacy: 139.9 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

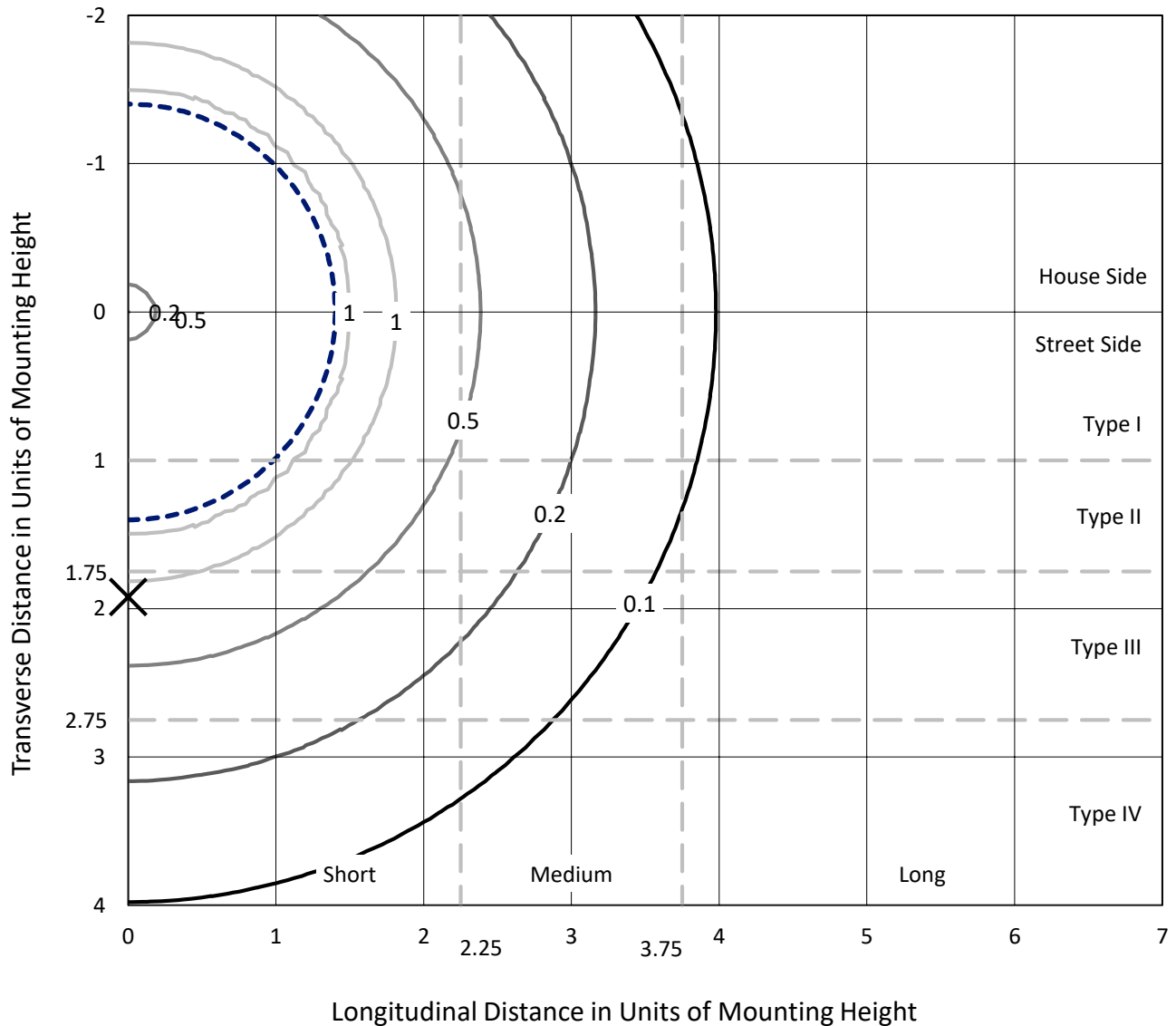




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Iso-Footcandle Lines of Horizontal Illumination

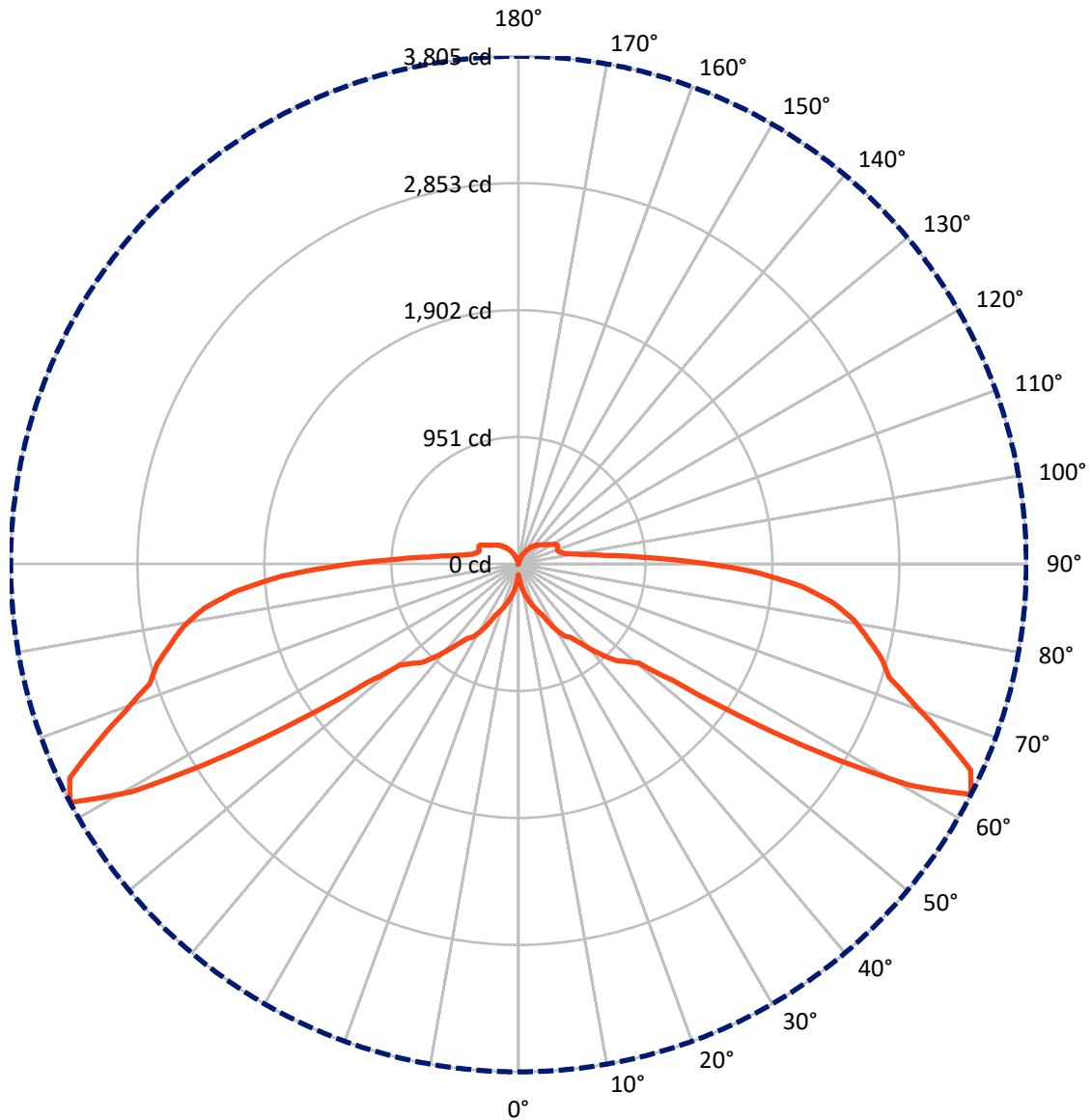
× Max cd
 - - - 1/2 Max cd



Based on 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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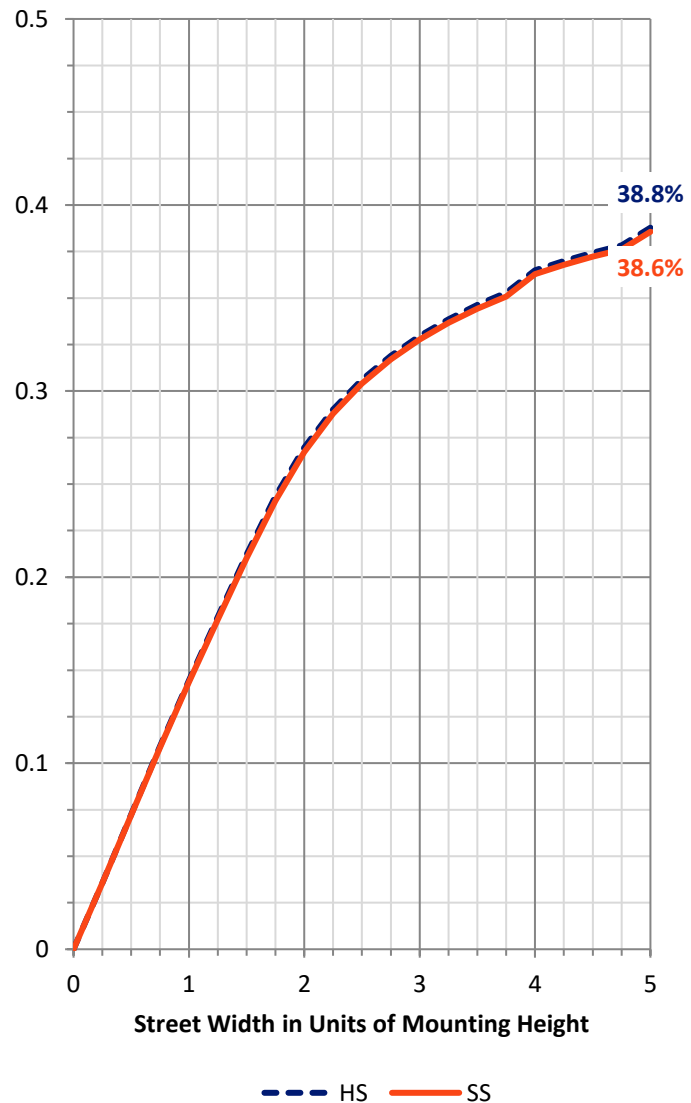
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6083.3 | 1002.0 | 7085.3 |
| | % Fixture | 42.9 | 7.1 | 50.0 |
| Street Side | Lumens | 6083.3 | 1002.0 | 7085.3 |
| | % Fixture | 42.9 | 7.1 | 50.0 |
| Total | Lumens | 12166.6 | 2004.0 | 14170.5 |
| | % Fixture | 85.9 | 14.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 15.0 | 0.1 |
| 10°-20° | 81.3 | 0.6 |
| 20°-30° | 211.0 | 1.5 |
| 30°-40° | 439.7 | 3.1 |
| 40°-50° | 790.7 | 5.6 |
| 50°-60° | 1898.3 | 13.4 |
| 60°-70° | 3522.5 | 24.9 |
| 70°-80° | 2968.1 | 20.9 |
| 80°-90° | 2240.0 | 15.8 |
| 90°-100° | 815.3 | 5.8 |
| 100°-110° | 358.5 | 2.5 |
| 110°-120° | 312.2 | 2.2 |
| 120°-130° | 226.1 | 1.6 |
| 130°-140° | 153.5 | 1.1 |
| 140°-150° | 90.1 | 0.6 |
| 150°-160° | 38.5 | 0.3 |
| 160°-170° | 9.3 | 0.1 |
| 170°-180° | 0.4 | 0.0 |
| 0°-90° | 12166.6 | 85.9 |
| 0°-180° | 14170.5 | 100.0 |



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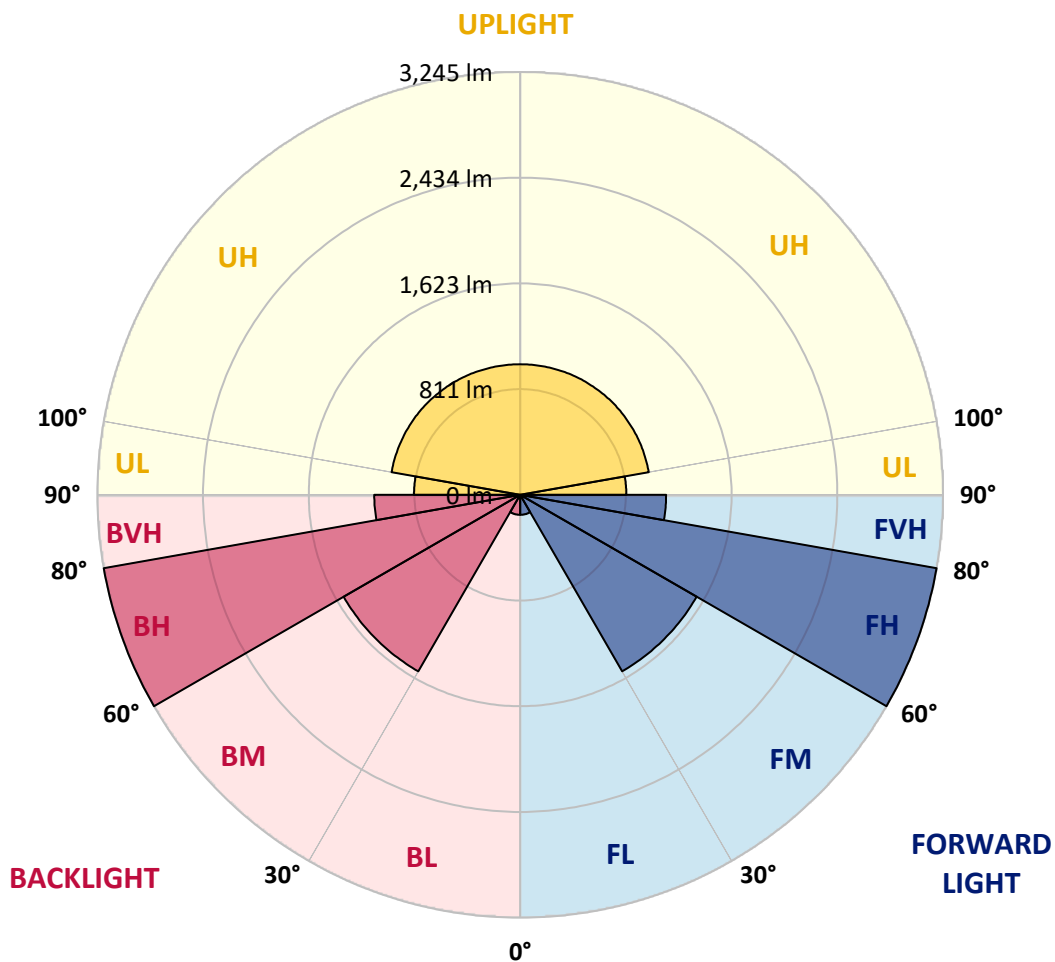
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 153.6 | 1.1 | | | |
| FM | (30°-60°) | 1564.3 | 11.0 | | | |
| FH | (60°-80°) | 3245.3 | 22.9 | | | G2/5000 |
| FVH | (80°-90°) | 1120.0 | 7.9 | | | G5 |
| BL | (0°-30°) | 153.6 | 1.1 | B1/500 | | |
| BM | (30°-60°) | 1564.3 | 11.0 | B2/2500 | | |
| BH | (60°-80°) | 3245.3 | 22.9 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 1120.0 | 7.9 | | | G5 |
| UL | (90°-100°) | 815.3 | 5.8 | | U4/1000 | |
| UH | (100°-180°) | 1002.0 | 7.1 | | U5 | |

BUG Rating: B4-U5-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|--------|
| 0° | 78.6 |
| 2.5° | 101.4 |
| 5° | 131.7 |
| 7.5° | 168.0 |
| 10° | 208.9 |
| 12.5° | 243.7 |
| 15° | 280.0 |
| 17.5° | 313.2 |
| 20° | 352.6 |
| 22.5° | 385.9 |
| 25° | 429.8 |
| 27.5° | 510.0 |
| 30° | 587.2 |
| 32.5° | 644.7 |
| 35° | 675.0 |
| 37.5° | 747.6 |
| 40° | 841.5 |
| 42.5° | 938.2 |
| 45° | 1033.7 |
| 47.5° | 1091.1 |
| 50° | 1165.3 |
| 52.5° | 1445.2 |
| 55° | 2000.5 |
| 57.5° | 2667.9 |
| 60° | 3359.6 |
| 62.5° | 3804.5 |
| 65° | 3722.8 |
| 67.5° | 3427.6 |
| 70° | 3141.7 |
| 72.5° | 2904.1 |
| 75° | 2807.2 |
| 77.5° | 2674.0 |
| 80° | 2548.4 |
| 82.5° | 2374.3 |
| 85° | 2123.2 |
| 87.5° | 1779.6 |
| 90° | 1333.2 |
| 92.5° | 939.7 |
| 95° | 668.9 |
| 97.5° | 505.4 |
| 100° | 408.6 |
| 102.5° | 352.6 |
| 105° | 328.4 |
| 107.5° | 313.2 |
| 110° | 311.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 317.8 |
| 115° | 325.4 |
| 117.5° | 314.8 |
| 120° | 287.5 |
| 122.5° | 267.9 |
| 125° | 248.2 |
| 127.5° | 234.6 |
| 130° | 222.5 |
| 132.5° | 210.3 |
| 135° | 199.7 |
| 137.5° | 183.1 |
| 140° | 171.0 |
| 142.5° | 155.8 |
| 145° | 145.2 |
| 147.5° | 127.1 |
| 150° | 110.4 |
| 152.5° | 95.3 |
| 155° | 78.6 |
| 157.5° | 69.6 |
| 160° | 56.0 |
| 162.5° | 39.3 |
| 165° | 30.3 |
| 167.5° | 19.7 |
| 170° | 10.6 |
| 172.5° | 1.6 |
| 175° | 4.5 |
| 177.5° | 4.5 |
| 180° | 3.0 |

(END OF REPORT)