

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: P14211

Luminaire Tested: **GAT-080-LED-E1-5-SPUN-CAGE**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14211
Test Lab: INNOVATION CENTER-P1
Issue Date: 6/29/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GAT-080-LED-E1-5-SPUN-CAGE
Description: MCGRAW-EDISON POST TOP WITH A TYPE V SOLID TOP
REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 4000K LEDS
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9980.8 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 2.21')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U4 - G3

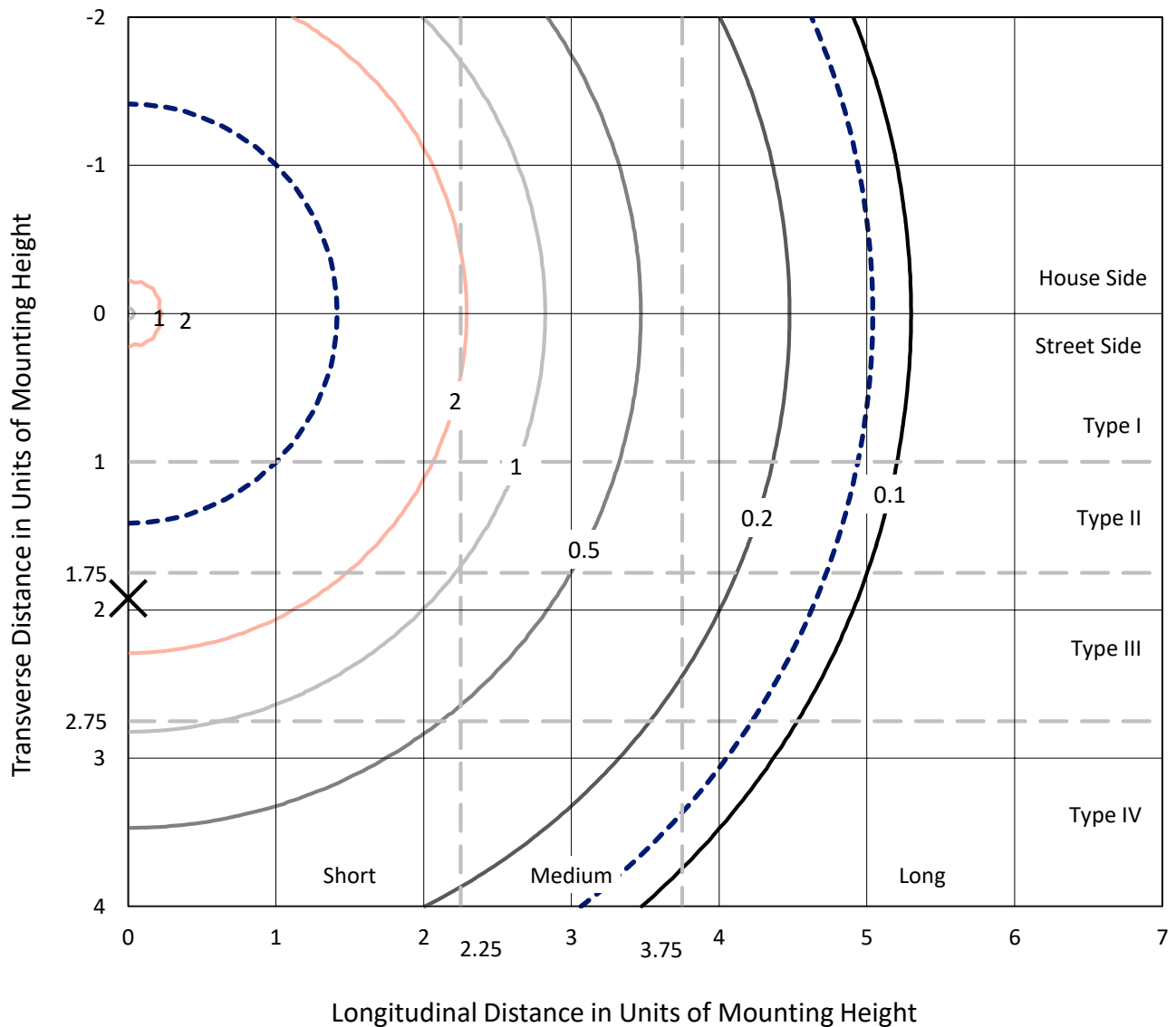
Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P14211
 CATALOG NUMBER: GAT-080-LED-E1-5-SPUN-CAGE

Iso-Footcandle Lines of Horizontal Illumination

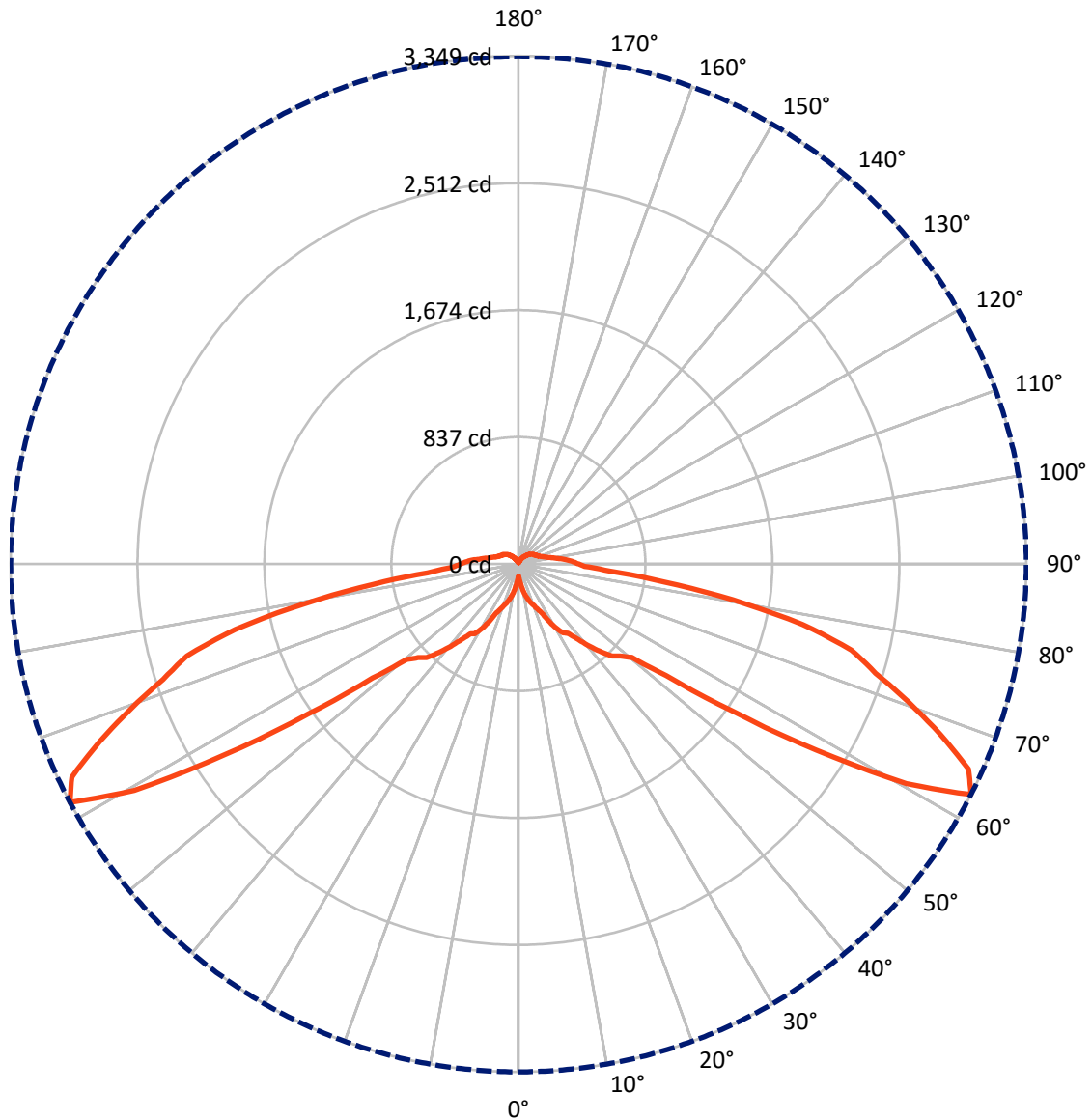
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P14211
CATALOG NUMBER: GAT-080-LED-E1-5-SPUN-CAGE

Luminous Intensity Polar Plot



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

REPORT NUMBER: P14211

CATALOG NUMBER: GAT-080-LED-E1-5-SPUN-CAGE

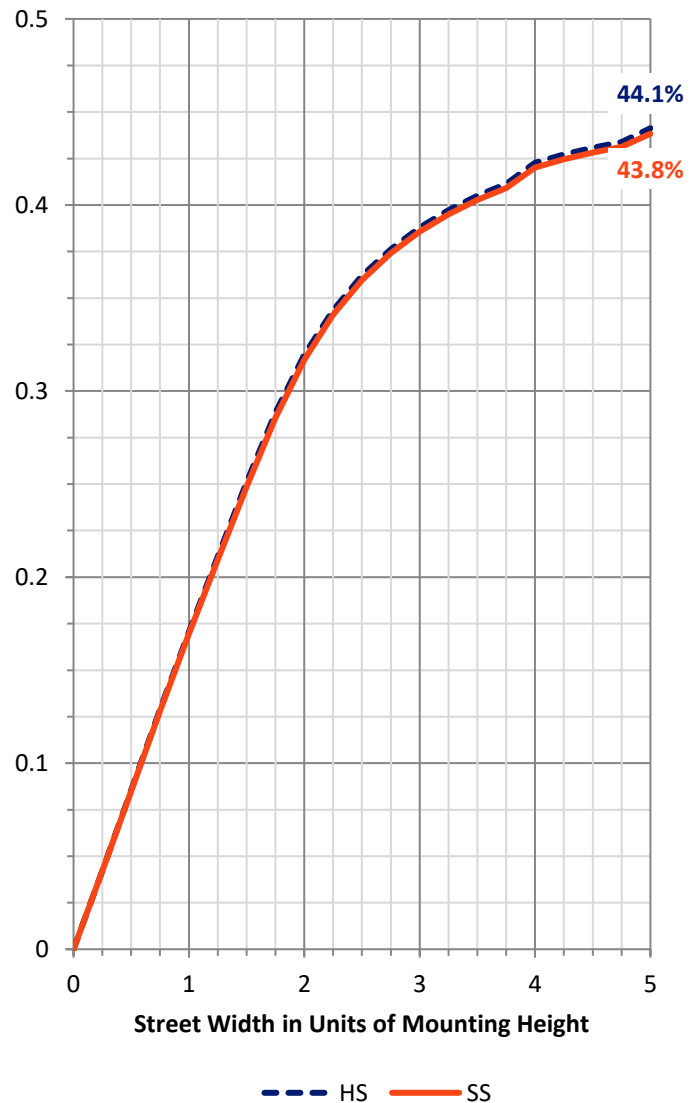
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4550.0 | 440.4 | 4990.4 |
| | % Fixture | 45.6 | 4.4 | 50.0 |
| Street Side | Lumens | 4550.0 | 440.4 | 4990.4 |
| | % Fixture | 45.6 | 4.4 | 50.0 |
| Total | Lumens | 9100.1 | 880.7 | 9980.8 |
| | % Fixture | 91.2 | 8.8 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.6 | 0.1 |
| 10°-20° | 70.0 | 0.7 |
| 20°-30° | 175.7 | 1.8 |
| 30°-40° | 366.4 | 3.7 |
| 40°-50° | 659.2 | 6.6 |
| 50°-60° | 1631.5 | 16.3 |
| 60°-70° | 3086.3 | 30.9 |
| 70°-80° | 2304.0 | 23.1 |
| 80°-90° | 793.5 | 7.9 |
| 90°-100° | 337.1 | 3.4 |
| 100°-110° | 190.3 | 1.9 |
| 110°-120° | 131.8 | 1.3 |
| 120°-130° | 100.8 | 1.0 |
| 130°-140° | 65.6 | 0.7 |
| 140°-150° | 34.5 | 0.3 |
| 150°-160° | 14.5 | 0.1 |
| 160°-170° | 5.3 | 0.1 |
| 170°-180° | 0.9 | 0.0 |
| 0°-90° | 9100.1 | 91.2 |
| 0°-180° | 9980.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P14211

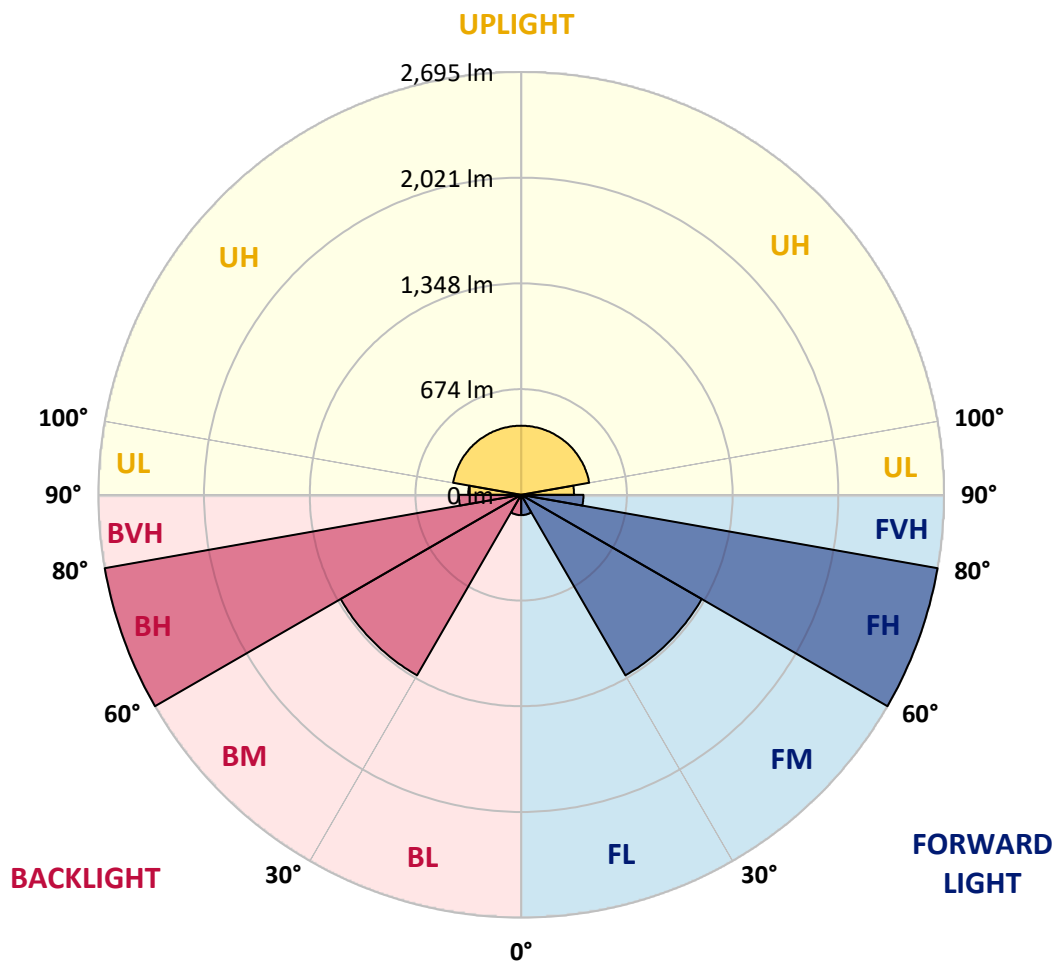
CATALOG NUMBER: GAT-080-LED-E1-5-SPUN-CAGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 129.6 | 1.3 | | | |
| FM (30°-60°) | 1328.5 | 13.3 | | | |
| FH (60°-80°) | 2695.1 | 27.0 | | | G2/5000 |
| FVH (80°-90°) | 396.7 | 4.0 | | | G3/500 |
| BL (0°-30°) | 129.6 | 1.3 | B1/500 | | |
| BM (30°-60°) | 1328.5 | 13.3 | B2/2500 | | |
| BH (60°-80°) | 2695.1 | 27.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 396.7 | 4.0 | | | G3/500 |
| UL (90°-100°) | 337.1 | 3.4 | | U3/500 | |
| UH (100°-180°) | 440.4 | 4.4 | | U3/500 | |

BUG Rating: B4-U4-G3

Type V Short





REPORT NUMBER: P14211

CATALOG NUMBER: GAT-080-LED-E1-5-SPUN-CAGE

CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|--------|
| 0° | 78.7 |
| 2.5° | 96.8 |
| 5° | 123.0 |
| 7.5° | 150.9 |
| 10° | 185.3 |
| 12.5° | 214.8 |
| 15° | 242.7 |
| 17.5° | 269.0 |
| 20° | 293.6 |
| 22.5° | 323.1 |
| 25° | 355.9 |
| 27.5° | 424.8 |
| 30° | 488.7 |
| 32.5° | 541.2 |
| 35° | 559.2 |
| 37.5° | 621.6 |
| 40° | 703.6 |
| 42.5° | 785.6 |
| 45° | 864.3 |
| 47.5° | 905.3 |
| 50° | 967.6 |
| 52.5° | 1220.2 |
| 55° | 1708.9 |
| 57.5° | 2312.4 |
| 60° | 2940.5 |
| 62.5° | 3348.9 |
| 65° | 3262.0 |
| 67.5° | 3001.2 |
| 70° | 2729.0 |
| 72.5° | 2463.3 |
| 75° | 2268.1 |
| 77.5° | 1915.5 |
| 80° | 1435.0 |
| 82.5° | 964.3 |
| 85° | 601.9 |
| 87.5° | 436.2 |
| 90° | 388.7 |
| 92.5° | 352.6 |
| 95° | 313.2 |
| 97.5° | 260.8 |
| 100° | 228.0 |
| 102.5° | 195.2 |
| 105° | 177.1 |
| 107.5° | 159.1 |
| 110° | 146.0 |



REPORT NUMBER: P14211

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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 112.5° | 139.4 |
| 115° | 131.2 |
| 117.5° | 127.9 |
| 120° | 118.1 |
| 122.5° | 119.7 |
| 125° | 113.2 |
| 127.5° | 106.6 |
| 130° | 100.0 |
| 132.5° | 91.8 |
| 135° | 85.3 |
| 137.5° | 75.4 |
| 140° | 68.9 |
| 142.5° | 59.0 |
| 145° | 55.8 |
| 147.5° | 47.6 |
| 150° | 41.0 |
| 152.5° | 37.7 |
| 155° | 29.5 |
| 157.5° | 24.6 |
| 160° | 21.3 |
| 162.5° | 19.7 |
| 165° | 18.0 |
| 167.5° | 18.0 |
| 170° | 13.1 |
| 172.5° | 8.2 |
| 175° | 9.8 |
| 177.5° | 9.8 |
| 180° | 9.8 |

(END OF REPORT)