

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: P14210

Luminaire Tested: **GAT-080-LED-E1-5-GLOW-X**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14210
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-GLOW-X
Description: MCGRAW-EDISON POST TOP WITH A TYPE V PRISMATIC REFRACTOR
Light Source: [6] 4000K LED
Ballast/Driver: [2] ELECTRONIC DRIVERS

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17334 lumens
Efficiency: N/A
Efficacy: 171.1 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

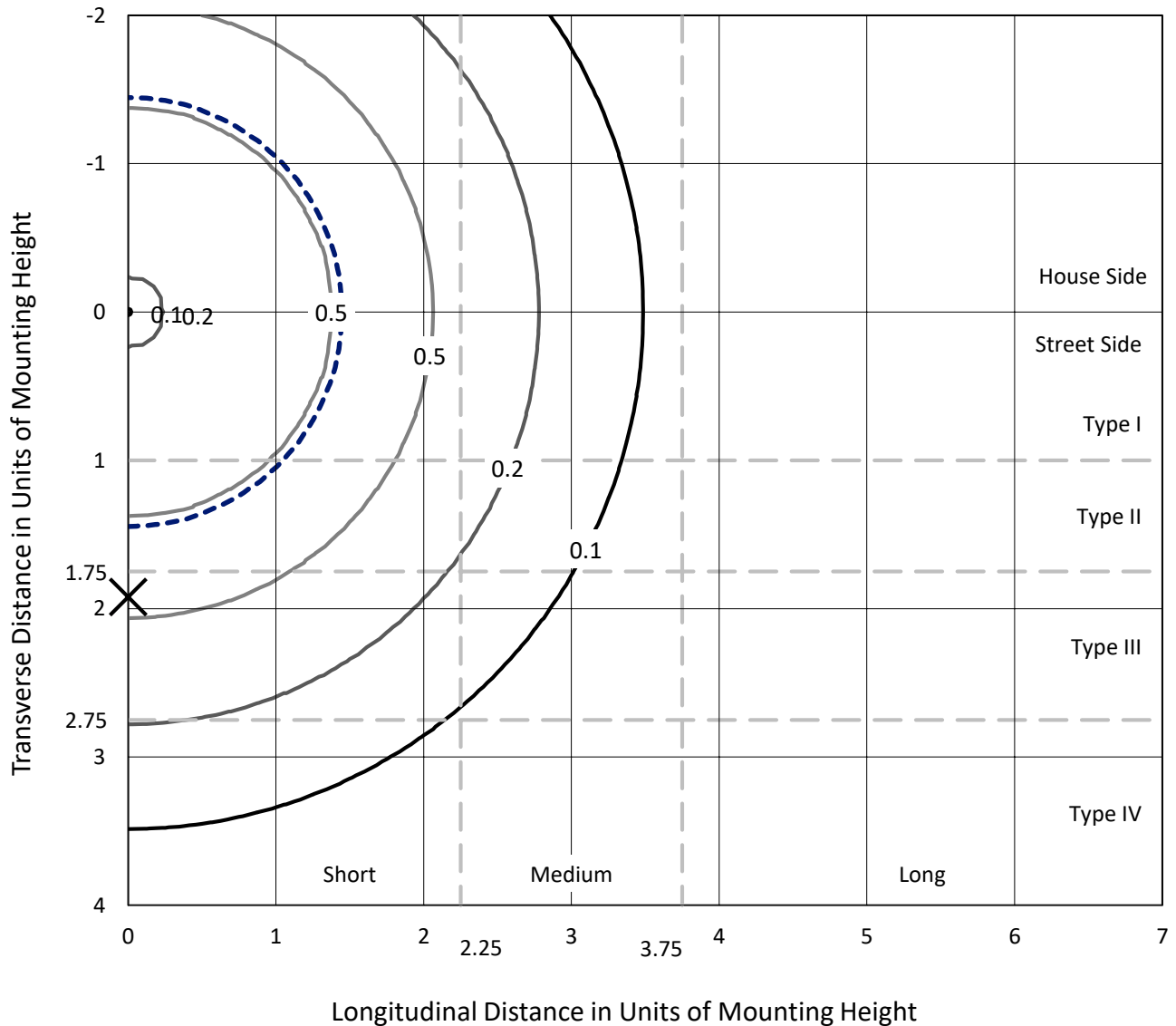
Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P14210
 CATALOG NUMBER: GAT-080-LED-E1-5-GLOW-X

Iso-Footcandle Lines of Horizontal Illumination

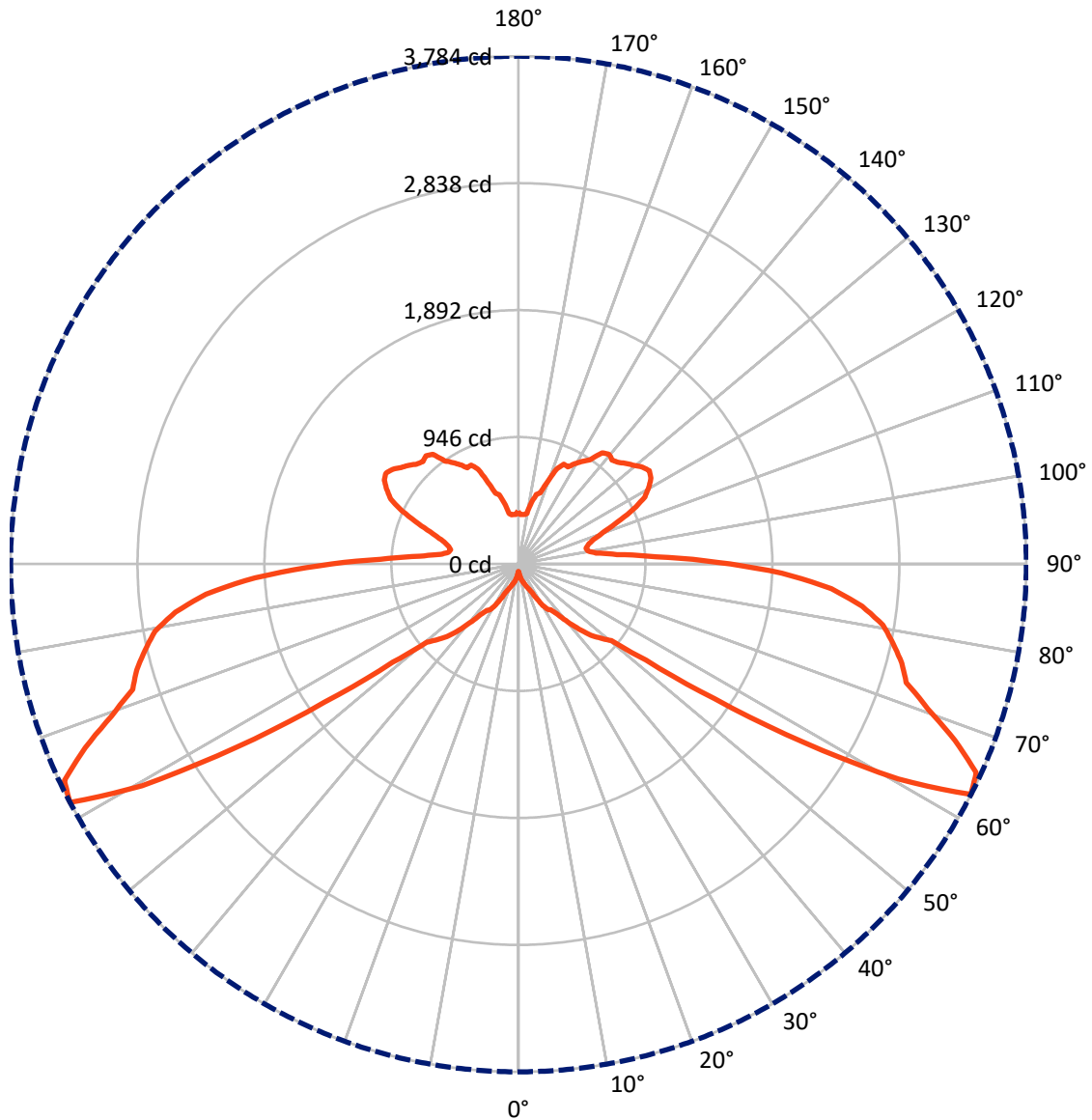
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P14210
CATALOG NUMBER: GAT-080-LED-E1-5-GLOW-X

Luminous Intensity Polar Plot



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

REPORT NUMBER: P14210

CATALOG NUMBER: GAT-080-LED-E1-5-GLOW-X

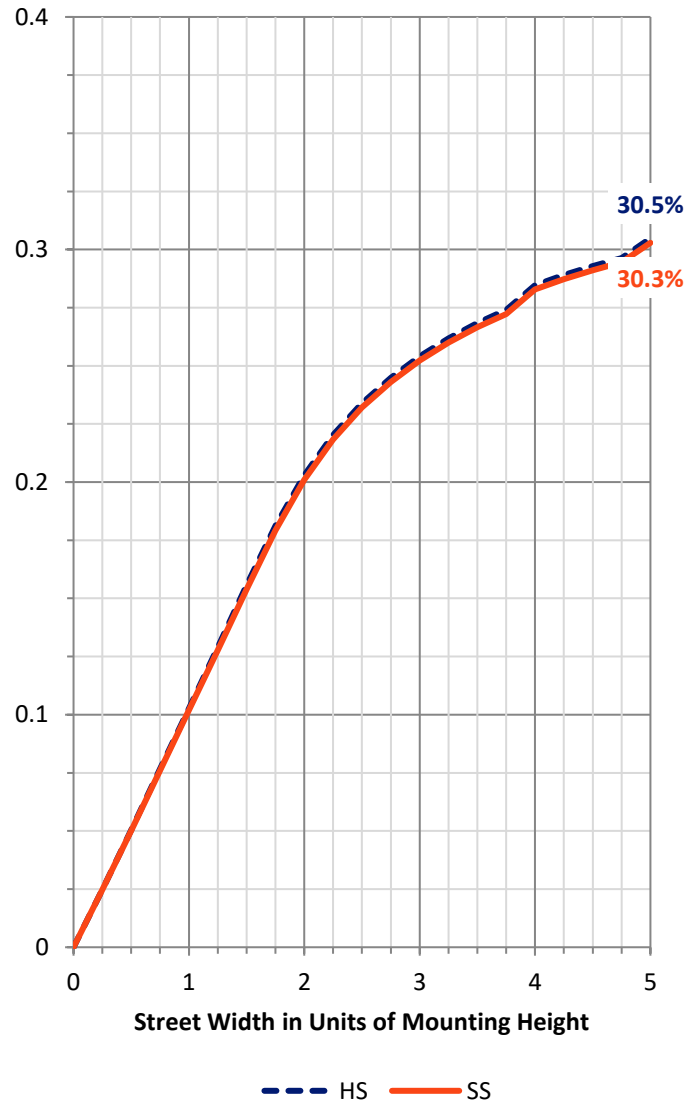
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5932.1 | 2735.0 | 8667.0 |
| | % Fixture | 34.2 | 15.8 | 50.0 |
| Street Side | Lumens | 5932.1 | 2735.0 | 8667.0 |
| | % Fixture | 34.2 | 15.8 | 50.0 |
| Total | Lumens | 11864.1 | 5469.9 | 17334.0 |
| | % Fixture | 68.4 | 31.6 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 8.8 | 0.1 |
| 10°-20° | 42.8 | 0.2 |
| 20°-30° | 118.6 | 0.7 |
| 30°-40° | 279.5 | 1.6 |
| 40°-50° | 579.9 | 3.3 |
| 50°-60° | 1713.7 | 9.9 |
| 60°-70° | 3542.8 | 20.4 |
| 70°-80° | 3124.8 | 18.0 |
| 80°-90° | 2453.2 | 14.2 |
| 90°-100° | 916.0 | 5.3 |
| 100°-110° | 593.0 | 3.4 |
| 110°-120° | 920.4 | 5.3 |
| 120°-130° | 1048.9 | 6.1 |
| 130°-140° | 833.3 | 4.8 |
| 140°-150° | 606.1 | 3.5 |
| 150°-160° | 366.5 | 2.1 |
| 160°-170° | 150.1 | 0.9 |
| 170°-180° | 35.7 | 0.2 |
| 0°-90° | 11864.1 | 68.4 |
| 0°-180° | 17334.0 | 100.0 |



REPORT NUMBER: P14210

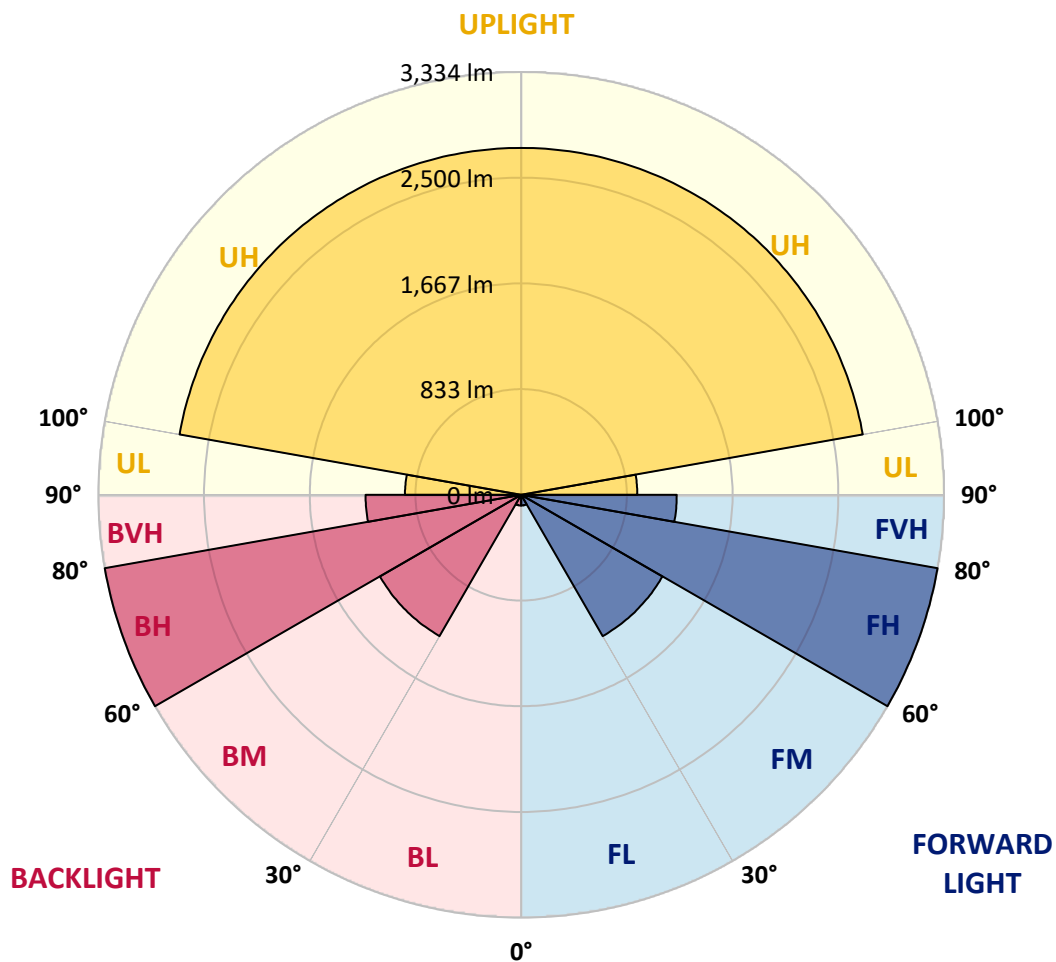
CATALOG NUMBER: GAT-080-LED-E1-5-GLOW-X

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 85.1 | 0.5 | | | |
| FM (30°-60°) | 1286.6 | 7.4 | | | |
| FH (60°-80°) | 3333.8 | 19.2 | | | G2/5000 |
| FVH (80°-90°) | 1226.6 | 7.1 | | | G5 |
| BL (0°-30°) | 85.1 | 0.5 | B0/110 | | |
| BM (30°-60°) | 1286.6 | 7.4 | B2/2500 | | |
| BH (60°-80°) | 3333.8 | 19.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 1226.6 | 7.1 | | | G5 |
| UL (90°-100°) | 916.0 | 5.3 | | U4/1000 | |
| UH (100°-180°) | 2735.0 | 15.8 | | U5 | |

BUG Rating: B4-U5-G5

Type V Short





REPORT NUMBER: P14210

CATALOG NUMBER: GAT-080-LED-E1-5-GLOW-X

CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|--------|
| 0° | 55.8 |
| 2.5° | 67.2 |
| 5° | 80.4 |
| 7.5° | 98.4 |
| 10° | 114.8 |
| 12.5° | 132.8 |
| 15° | 146.0 |
| 17.5° | 162.4 |
| 20° | 183.7 |
| 22.5° | 205.0 |
| 25° | 234.5 |
| 27.5° | 293.6 |
| 30° | 359.2 |
| 32.5° | 403.4 |
| 35° | 419.8 |
| 37.5° | 478.9 |
| 40° | 567.4 |
| 42.5° | 662.6 |
| 45° | 757.7 |
| 47.5° | 824.9 |
| 50° | 897.1 |
| 52.5° | 1189.0 |
| 55° | 1772.8 |
| 57.5° | 2509.2 |
| 60° | 3253.8 |
| 62.5° | 3783.5 |
| 65° | 3747.4 |
| 67.5° | 3506.3 |
| 70° | 3235.7 |
| 72.5° | 3020.9 |
| 75° | 2950.4 |
| 77.5° | 2855.2 |
| 80° | 2753.6 |
| 82.5° | 2579.7 |
| 85° | 2338.6 |
| 87.5° | 1963.1 |
| 90° | 1482.6 |
| 92.5° | 1028.3 |
| 95° | 736.4 |
| 97.5° | 583.8 |
| 100° | 528.1 |
| 102.5° | 516.6 |
| 105° | 539.6 |
| 107.5° | 587.1 |
| 110° | 674.0 |



REPORT NUMBER: P14210

CATALOG NUMBER: GAT-080-LED-E1-5-GLOW-X

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 112.5° | 802.0 |
| 115° | 951.2 |
| 117.5° | 1067.6 |
| 120° | 1126.7 |
| 122.5° | 1177.5 |
| 125° | 1197.2 |
| 127.5° | 1172.6 |
| 130° | 1131.6 |
| 132.5° | 1098.8 |
| 135° | 1061.1 |
| 137.5° | 1043.0 |
| 140° | 1061.1 |
| 142.5° | 1036.5 |
| 145° | 943.0 |
| 147.5° | 902.0 |
| 150° | 859.4 |
| 152.5° | 811.8 |
| 155° | 816.7 |
| 157.5° | 765.9 |
| 160° | 647.8 |
| 162.5° | 554.3 |
| 165° | 534.6 |
| 167.5° | 467.4 |
| 170° | 382.1 |
| 172.5° | 370.6 |
| 175° | 370.6 |
| 177.5° | 369.0 |
| 180° | 393.6 |

(END OF REPORT)