

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: P14363

Luminaire Tested: **GAT-080-LED-E1-5-SPUN-CAGE-5700**

Issue Date: 6/29/2020

Test Information

Test Method: LM-79-08
Report Number: P14363
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-5700
Description: MCGRAW-EDISON POST TOP WITH A TYPE V SOLID TOP
REFRACTOR WITH ARCHITECTURAL CAGE
Light Source: [6] 5700K LED
Ballast/Driver: [2]

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9663.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.29' x H: 1.25')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U4 - G3

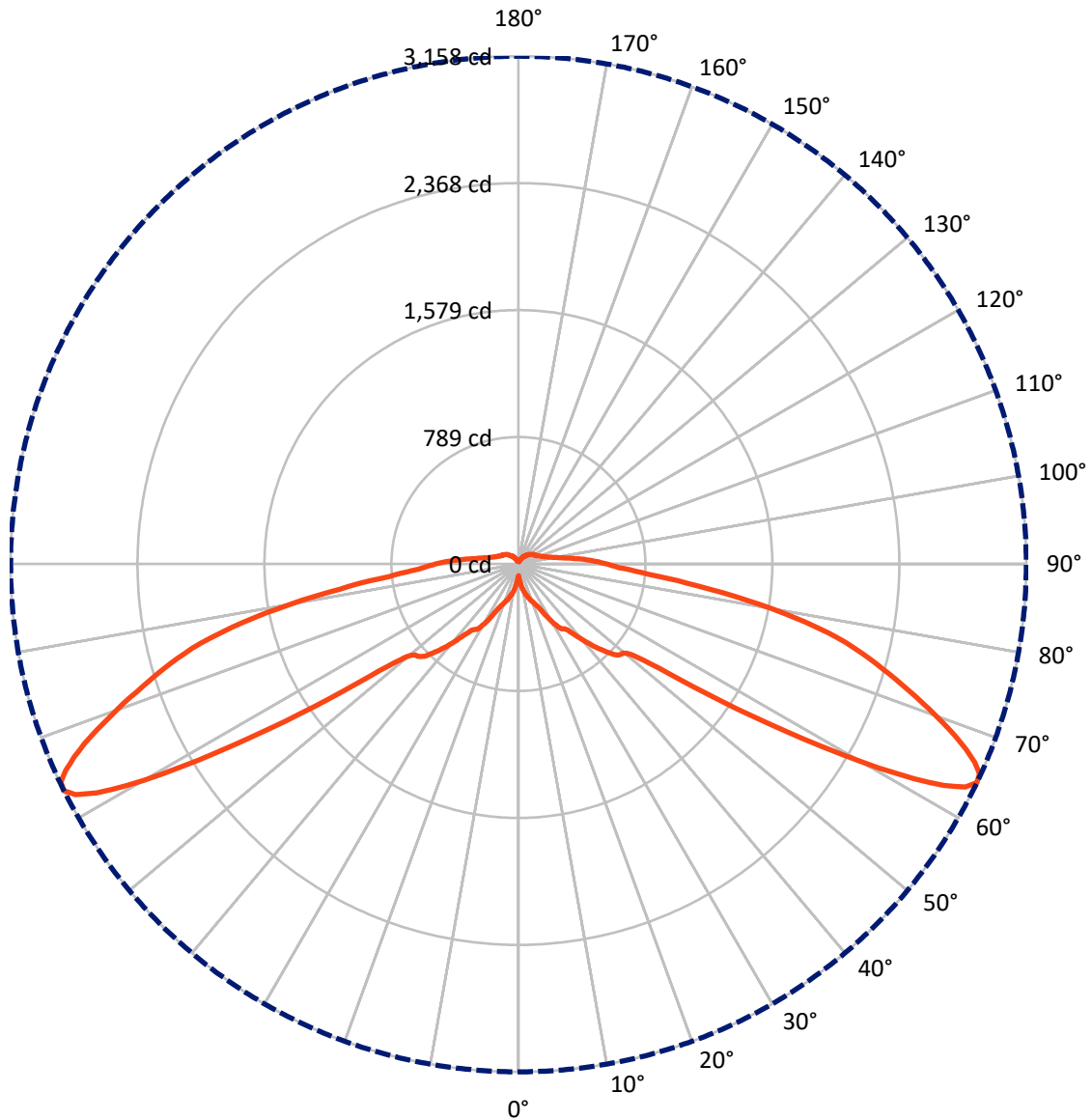
Input Watts (W): 101.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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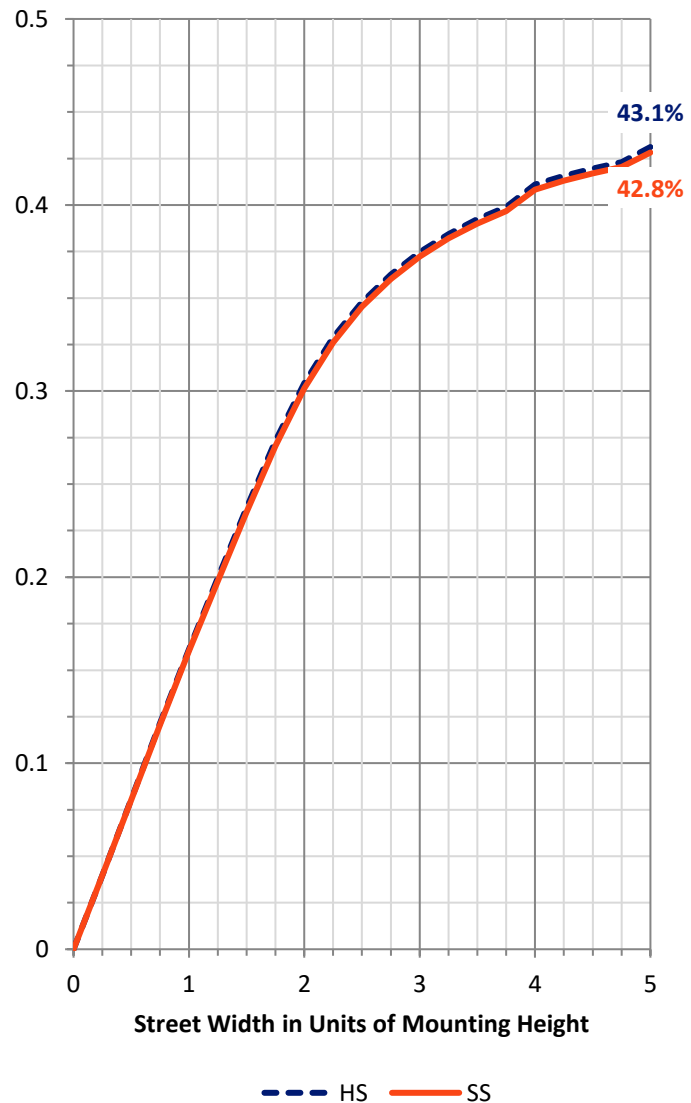
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4374.3 | 457.3 | 4831.6 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Street Side | Lumens | 4374.3 | 457.3 | 4831.6 |
| | % Fixture | 45.3 | 4.7 | 50.0 |
| Total | Lumens | 8748.5 | 914.7 | 9663.2 |
| | % Fixture | 90.5 | 9.5 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.5 | 0.1 |
| 10°-20° | 60.6 | 0.6 |
| 20°-30° | 150.2 | 1.6 |
| 30°-40° | 322.6 | 3.3 |
| 40°-50° | 601.0 | 6.2 |
| 50°-60° | 1388.2 | 14.4 |
| 60°-70° | 2947.0 | 30.5 |
| 70°-80° | 2292.1 | 23.7 |
| 80°-90° | 974.6 | 10.1 |
| 90°-100° | 396.5 | 4.1 |
| 100°-110° | 184.2 | 1.9 |
| 110°-120° | 123.3 | 1.3 |
| 120°-130° | 93.0 | 1.0 |
| 130°-140° | 61.0 | 0.6 |
| 140°-150° | 34.7 | 0.4 |
| 150°-160° | 14.9 | 0.2 |
| 160°-170° | 5.7 | 0.1 |
| 170°-180° | 1.4 | 0.0 |
| 0°-90° | 8748.5 | 90.5 |
| 0°-180° | 9663.2 | 100.0 |



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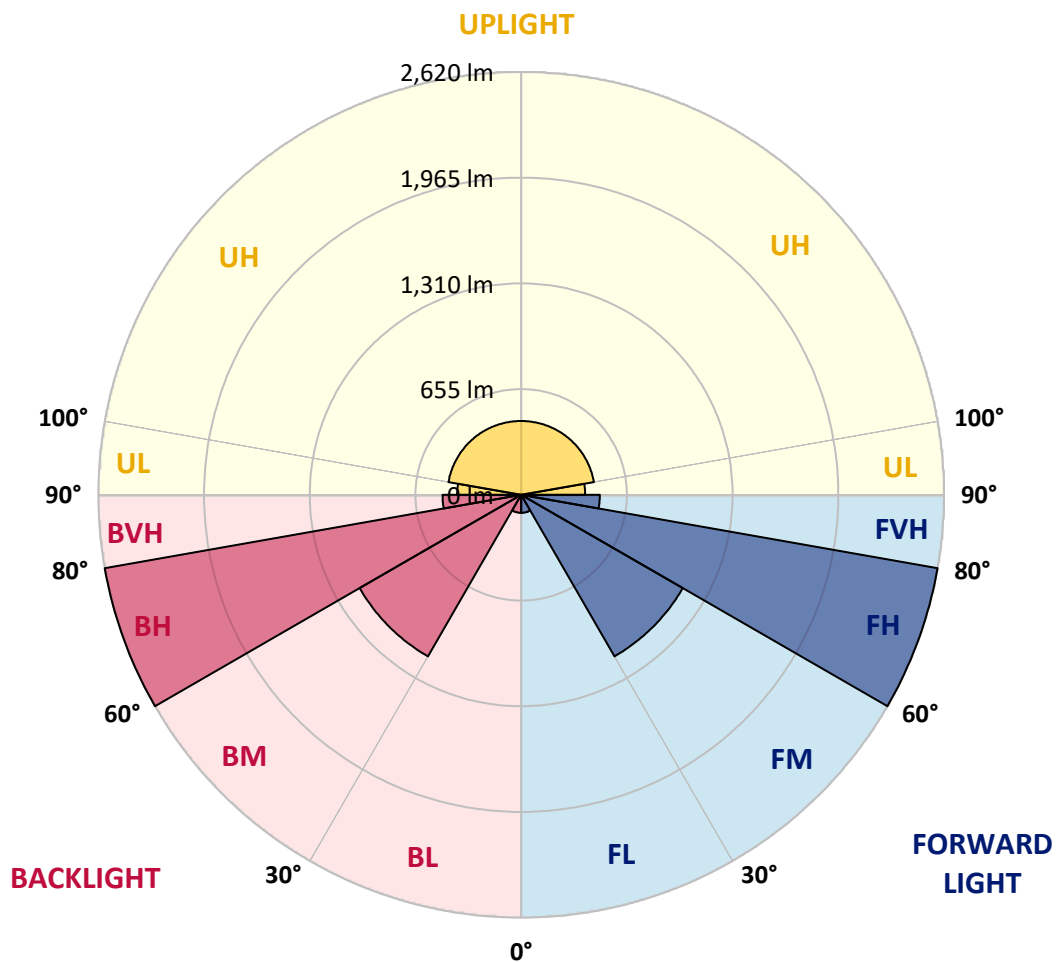
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 111.6 | 1.2 | | | |
| FM (30°-60°) | 1155.9 | 12.0 | | | |
| FH (60°-80°) | 2619.5 | 27.1 | | | G2/5000 |
| FVH (80°-90°) | 487.3 | 5.0 | | | G3/500 |
| BL (0°-30°) | 111.6 | 1.2 | B1/500 | | |
| BM (30°-60°) | 1155.9 | 12.0 | B2/2500 | | |
| BH (60°-80°) | 2619.5 | 27.1 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 487.3 | 5.0 | | | G3/500 |
| UL (90°-100°) | 396.5 | 4.1 | | U3/500 | |
| UH (100°-180°) | 457.3 | 4.7 | | U3/500 | |

BUG Rating: B4-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 72.2 |
| 2.5° | 92.9 |
| 5° | 113.5 |
| 7.5° | 139.3 |
| 10° | 165.1 |
| 12.5° | 189.6 |
| 15° | 207.7 |
| 17.5° | 232.2 |
| 20° | 250.3 |
| 22.5° | 274.8 |
| 25° | 303.2 |
| 27.5° | 361.2 |
| 30° | 425.7 |
| 31° | 441.2 |
| 32° | 465.7 |
| 33° | 482.5 |
| 34° | 488.9 |
| 35° | 495.4 |
| 36° | 509.6 |
| 37° | 534.1 |
| 38° | 562.4 |
| 39° | 592.1 |
| 40° | 626.9 |
| 41° | 659.2 |
| 42° | 691.4 |
| 43° | 726.3 |
| 44° | 753.4 |
| 45° | 786.9 |
| 46° | 817.9 |
| 47° | 837.2 |
| 48° | 848.8 |
| 49° | 854.0 |
| 50° | 870.8 |
| 51° | 912.0 |
| 52° | 983.0 |
| 53° | 1087.5 |
| 54° | 1244.9 |
| 55° | 1434.5 |
| 56° | 1638.3 |
| 57° | 1855.0 |
| 58° | 2082.1 |
| 59° | 2332.3 |
| 60° | 2577.4 |
| 61° | 2798.0 |
| 62° | 2983.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 63° | 3106.3 |
| 64° | 3157.9 |
| 65° | 3151.5 |
| 66° | 3093.4 |
| 67° | 3012.2 |
| 68° | 2921.8 |
| 69° | 2818.6 |
| 70° | 2711.6 |
| 71° | 2608.4 |
| 72° | 2502.6 |
| 73° | 2402.0 |
| 74° | 2303.9 |
| 75° | 2200.7 |
| 76° | 2096.2 |
| 77° | 1969.8 |
| 78° | 1829.2 |
| 79° | 1680.9 |
| 80° | 1520.9 |
| 82.5° | 1122.3 |
| 85° | 807.5 |
| 87.5° | 621.8 |
| 90° | 531.5 |
| 92.5° | 446.3 |
| 95° | 353.5 |
| 97.5° | 273.5 |
| 100° | 225.8 |
| 102.5° | 190.9 |
| 105° | 169.0 |
| 107.5° | 152.2 |
| 110° | 140.6 |
| 112.5° | 130.3 |
| 115° | 121.3 |
| 117.5° | 118.7 |
| 120° | 110.9 |
| 122.5° | 110.9 |
| 125° | 103.2 |
| 127.5° | 98.0 |
| 130° | 92.9 |
| 132.5° | 85.1 |
| 135° | 80.0 |
| 137.5° | 68.4 |
| 140° | 67.1 |
| 142.5° | 60.6 |
| 145° | 55.5 |
| 147.5° | 49.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 150° | 41.3 |
| 152.5° | 37.4 |
| 155° | 29.7 |
| 157.5° | 27.1 |
| 160° | 23.2 |
| 162.5° | 20.6 |
| 165° | 19.4 |
| 167.5° | 19.4 |
| 170° | 16.8 |
| 172.5° | 14.2 |
| 175° | 12.9 |
| 177.5° | 12.9 |
| 180° | 12.9 |

(END OF REPORT)