

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: 769317

Luminaire Tested: **BRC-100-MP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 769317  
Test Lab: COOPER LIGHTING  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: BRC-100-MP  
Description: 100W MP ROUND ARCHITECTURAL BOLLARD-SYMMETRIC DISTRIBUTION  
Light Source: 100 WATT PULSE-START CLEAR ED-17 VBD BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 8500 (1 lamp)  
Luminaire Lumens: 3954.3 lumens  
Efficiency: 46.5%  
Efficacy: 39.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.33')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U3 - G2

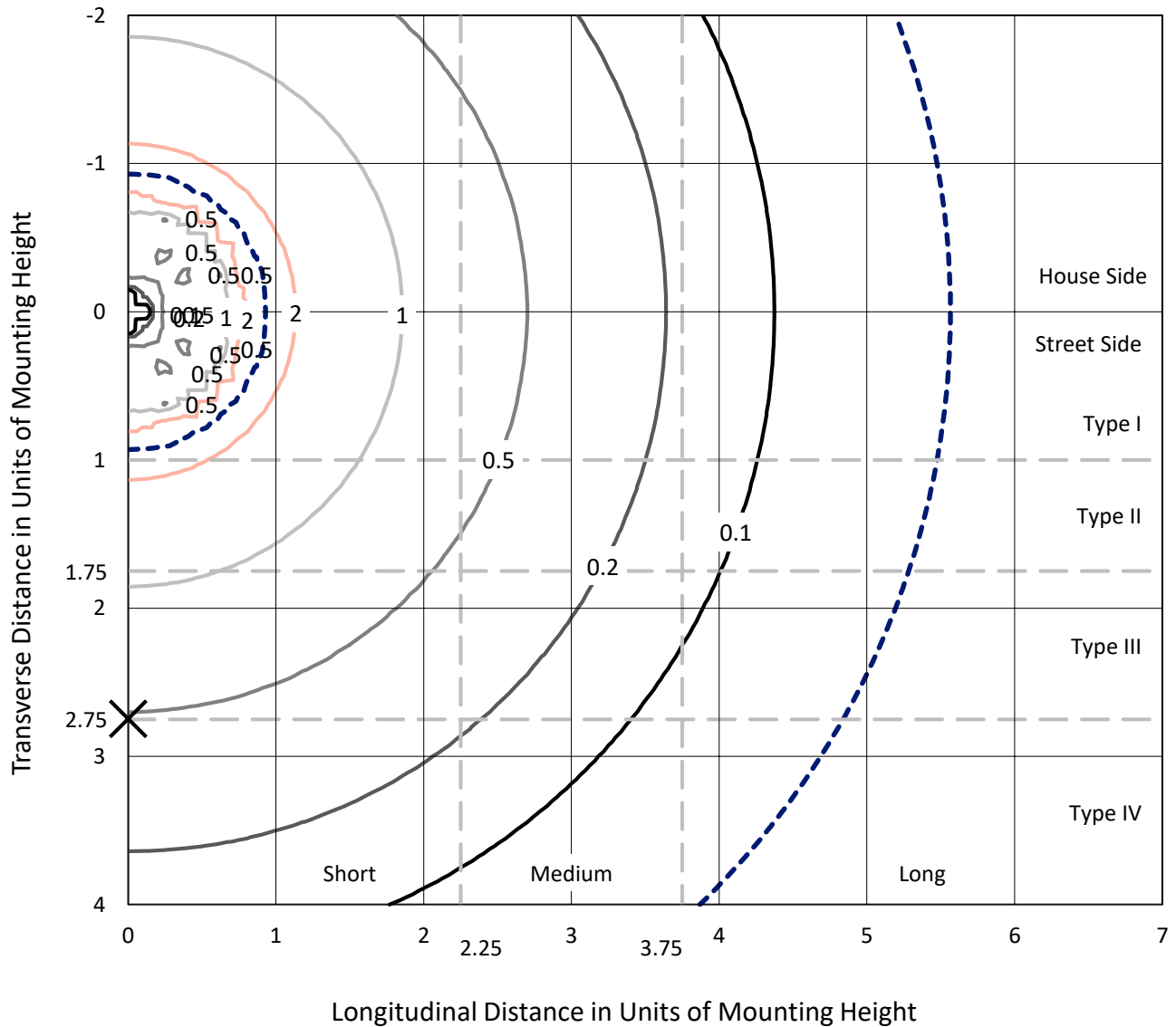
Input Watts (W): 100  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

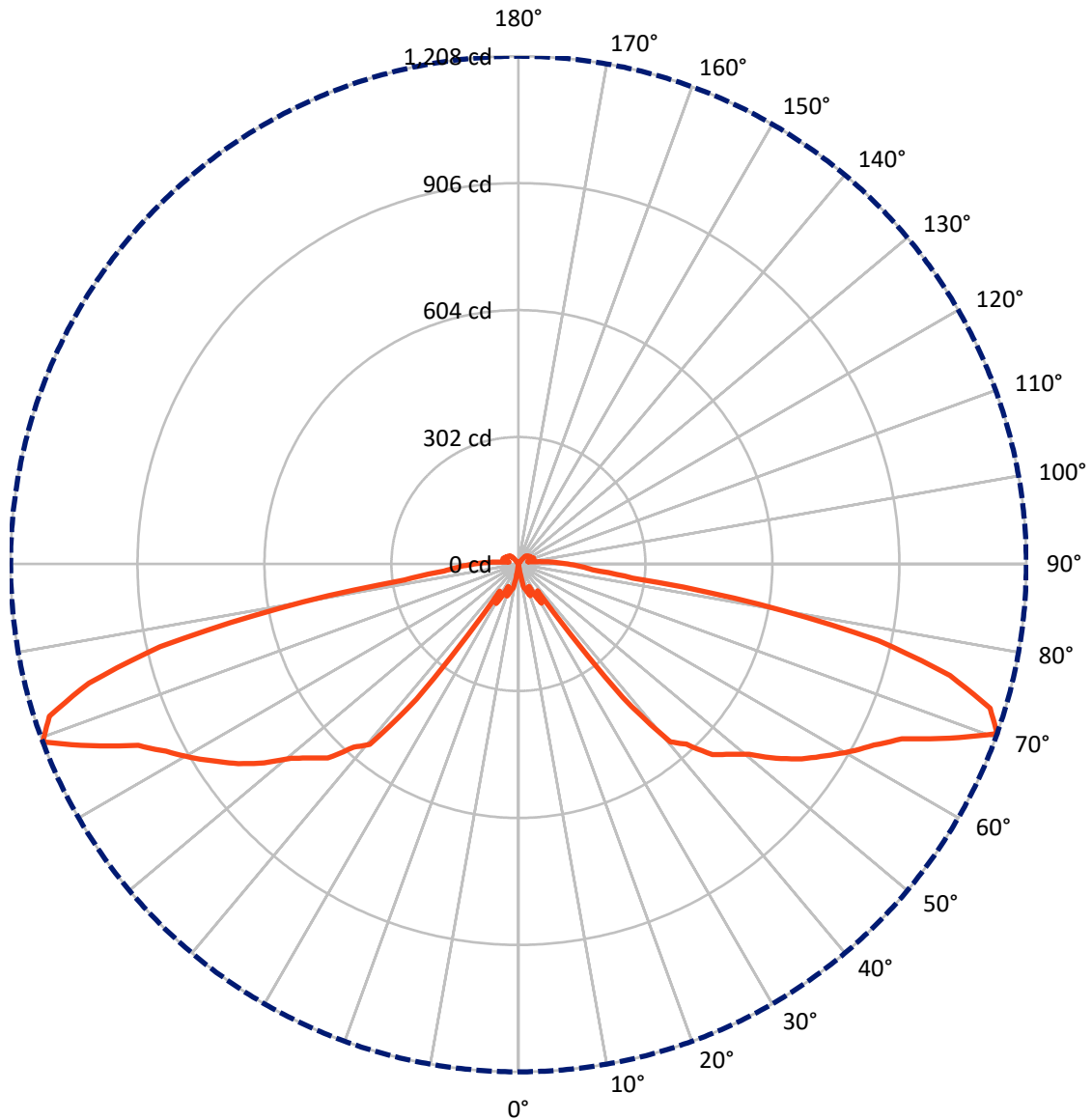
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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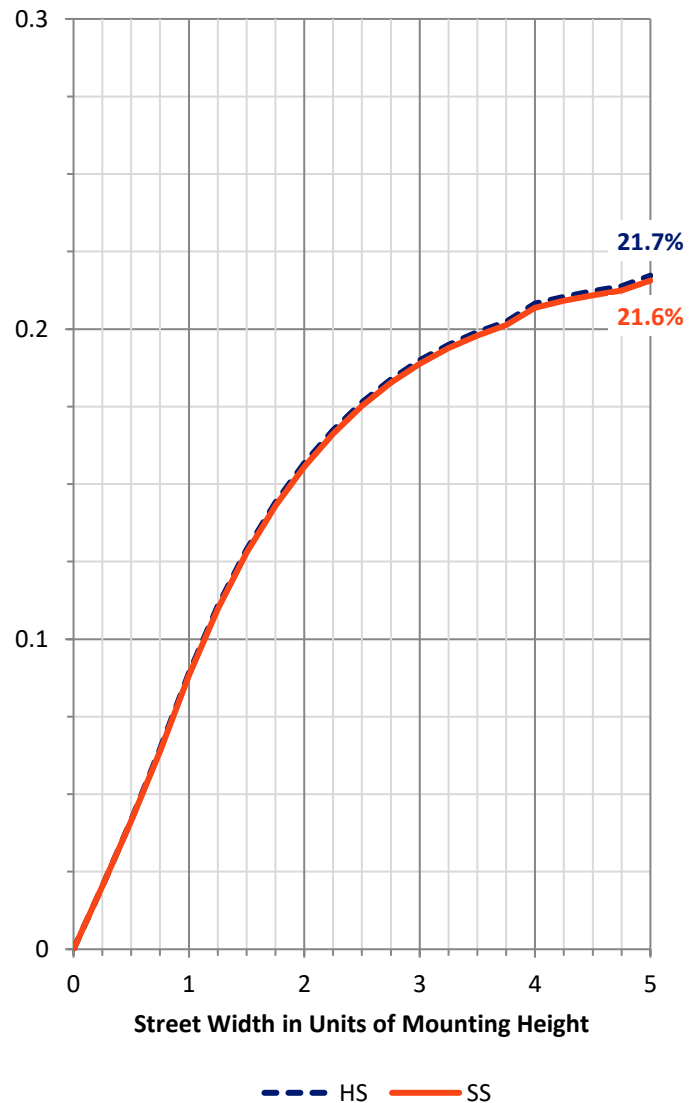
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total  |
|--------------------|--------|----------|--------|--------|
| <b>House Side</b>  | Lumens | 1882.2   | 94.9   | 1977.1 |
|                    | % Lamp | 22.1     | 1.1    | 23.3   |
| <b>Street Side</b> | Lumens | 1882.2   | 94.9   | 1977.1 |
|                    | % Lamp | 22.1     | 1.1    | 23.3   |
| <b>Total</b>       | Lumens | 3764.4   | 189.9  | 3954.3 |
|                    | % Lamp | 44.3     | 2.2    | 46.5   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 0.6    | 0.0       | 0.0    |
| 10°-20°   | 18.0   | 0.5       | 0.2    |
| 20°-30°   | 35.4   | 0.9       | 0.4    |
| 30°-40°   | 149.2  | 3.8       | 1.8    |
| 40°-50°   | 494.0  | 12.5      | 5.8    |
| 50°-60°   | 731.8  | 18.5      | 8.6    |
| 60°-70°   | 1022.8 | 25.9      | 12.0   |
| 70°-80°   | 1056.4 | 26.7      | 12.4   |
| 80°-90°   | 256.3  | 6.5       | 3.0    |
| 90°-100°  | 67.9   | 1.7       | 0.8    |
| 100°-110° | 31.5   | 0.8       | 0.4    |
| 110°-120° | 35.4   | 0.9       | 0.4    |
| 120°-130° | 28.2   | 0.7       | 0.3    |
| 130°-140° | 19.9   | 0.5       | 0.2    |
| 140°-150° | 5.7    | 0.1       | 0.1    |
| 150°-160° | 1.3    | 0.0       | 0.0    |
| 160°-170° | 0.0    | 0.0       | 0.0    |
| 170°-180° | 0.0    | 0.0       | 0.0    |
| 0°-90°    | 3764.4 | 95.2      | 44.3   |
| 0°-180°   | 3954.3 | 100.0     | 46.5   |

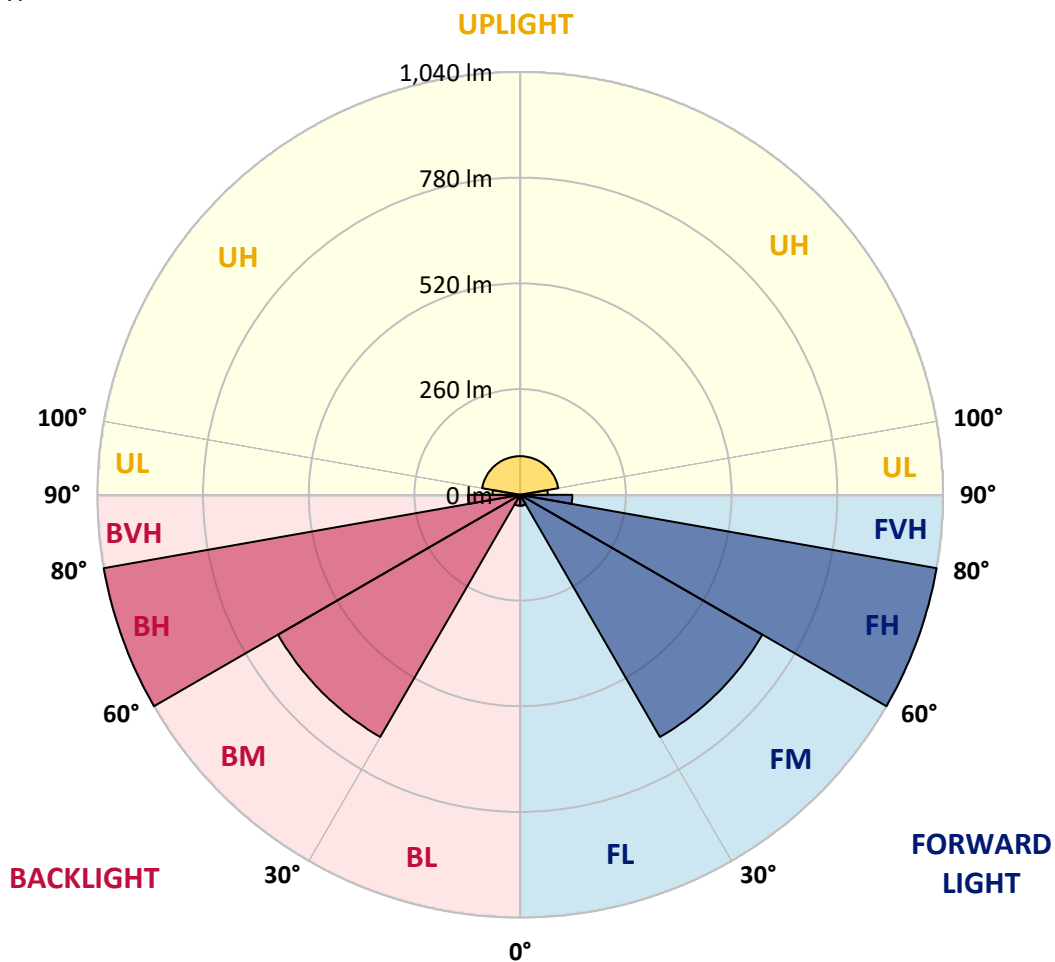


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Lamp | Zone Rating/Lumen Limit |        |         |
|----------------|--------|--------|-------------------------|--------|---------|
|                |        |        | B                       | U      | G       |
| FL (0°-30°)    | 27.0   | 0.3    |                         |        |         |
| FM (30°-60°)   | 687.5  | 8.1    |                         |        |         |
| FH (60°-80°)   | 1039.6 | 12.2   |                         |        | G1/1800 |
| FVH (80°-90°)  | 128.1  | 1.5    |                         |        | G2/225  |
| BL (0°-30°)    | 27.0   | 0.3    | B0/110                  |        |         |
| BM (30°-60°)   | 687.5  | 8.1    | B1/1000                 |        |         |
| BH (60°-80°)   | 1039.6 | 12.2   | B3/2500                 |        | G1/1800 |
| BVH (80°-90°)  | 128.1  | 1.5    |                         |        | G2/225  |
| UL (90°-100°)  | 67.9   | 0.8    |                         | U3/500 |         |
| UH (100°-180°) | 94.9   | 1.1    |                         | U3/500 |         |
| Trapped Light  | 4545.7 | 53.5   |                         |        |         |

**BUG Rating: B3-U3-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°   |
|--------|------|
| 0°     | 0    |
| 2.5°   | 0    |
| 5°     | 0    |
| 7.5°   | 1    |
| 10°    | 26   |
| 12.5°  | 58   |
| 15°    | 62   |
| 17.5°  | 71   |
| 20°    | 81   |
| 22.5°  | 61   |
| 25°    | 59   |
| 27.5°  | 87   |
| 30°    | 108  |
| 32.5°  | 97   |
| 35°    | 78   |
| 37.5°  | 403  |
| 40°    | 556  |
| 42.5°  | 586  |
| 45°    | 647  |
| 47.5°  | 676  |
| 50°    | 711  |
| 52.5°  | 768  |
| 55°    | 818  |
| 57.5°  | 861  |
| 60°    | 906  |
| 62.5°  | 949  |
| 65°    | 1002 |
| 67.5°  | 1106 |
| 70°    | 1208 |
| 72.5°  | 1173 |
| 75°    | 1060 |
| 77.5°  | 875  |
| 80°    | 582  |
| 82.5°  | 274  |
| 85°    | 177  |
| 87.5°  | 144  |
| 90°    | 111  |
| 92.5°  | 82   |
| 95°    | 58   |
| 97.5°  | 39   |
| 100°   | 28   |
| 102.5° | 23   |
| 105°   | 27   |
| 107.5° | 36   |
| 110°   | 39   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0° |
|--------|----|
| 112.5° | 38 |
| 115°   | 34 |
| 117.5° | 34 |
| 120°   | 34 |
| 122.5° | 32 |
| 125°   | 32 |
| 127.5° | 30 |
| 130°   | 29 |
| 132.5° | 28 |
| 135°   | 27 |
| 137.5° | 23 |
| 140°   | 19 |
| 142.5° | 12 |
| 145°   | 6  |
| 147.5° | 5  |
| 150°   | 5  |
| 152.5° | 3  |
| 155°   | 3  |
| 157.5° | 2  |
| 160°   | 1  |
| 162.5° | 0  |
| 165°   | 0  |
| 167.5° | 0  |
| 170°   | 0  |
| 172.5° | 0  |
| 175°   | 0  |
| 177.5° | 0  |
| 180°   | 0  |

(END OF REPORT)