

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: EPHESUS

Report Number: G2-1902-155-15

Luminaire Tested: **G8-W-PC-320-5600**

Test Date: 03/07/19

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1902-155-15  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 03/07/19  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: G8-W-PC-320-5600  
Description: EPHEBUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-W-PC-WHT-IP. BEAM SHAPE 3.2, 5600K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

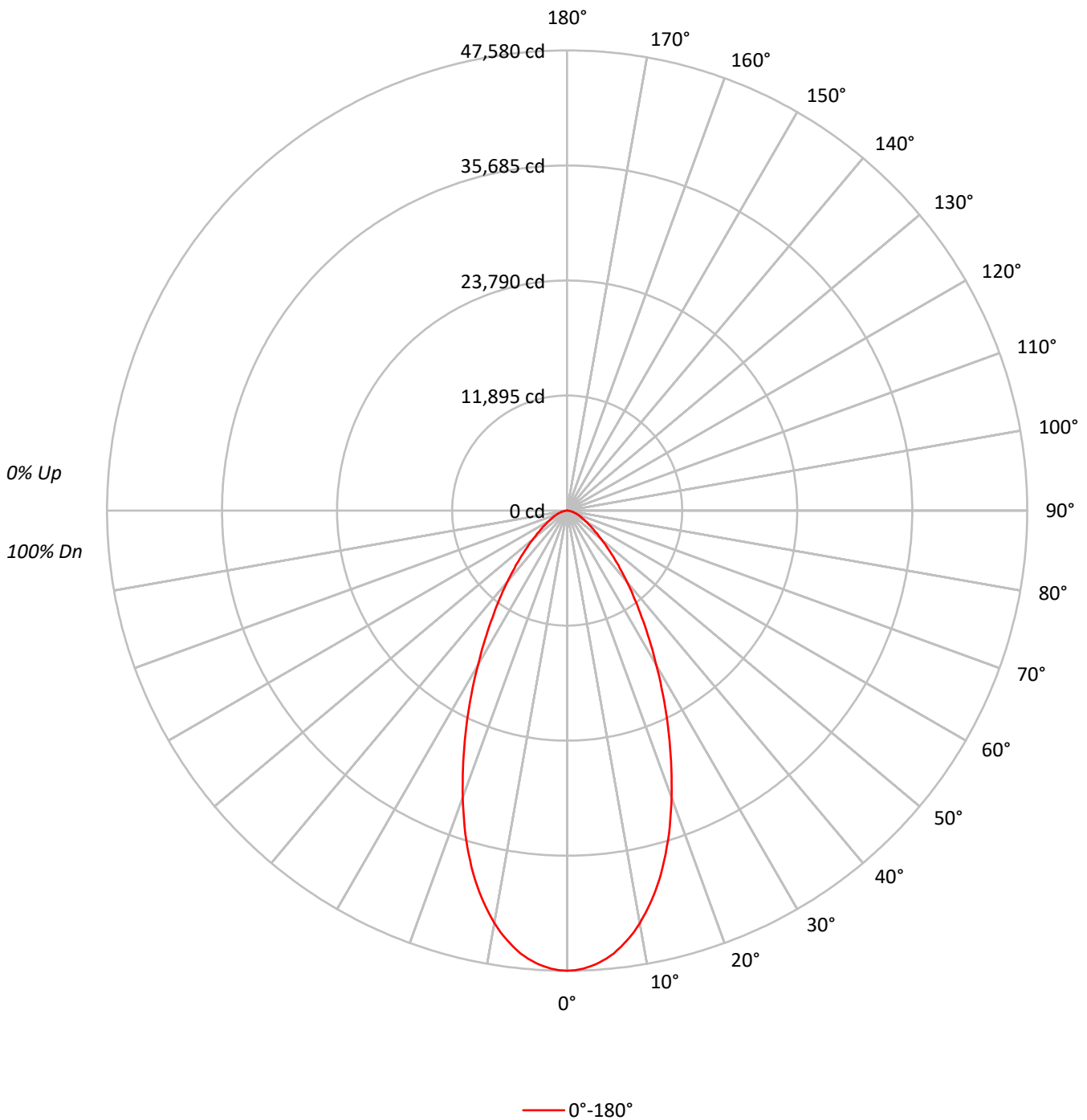
Lumens per Lamp: N/A  
Luminaire Lumens: 45349.1 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.82  
Luminous Opening: Rectangular (W 0.88' x L: 1.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 411.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  | 0   |     |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 95  | 94  | 93  | 91  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 86  | 84  | 82  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  |  | 85  | 81  | 78  |  | 82  | 79  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 73  | 81  | 76  | 72  |  | 79  | 74  | 71  |  | 77  | 73  | 70  | 68  |
| 5   | 88  | 78  | 71  | 66  | 86  | 77  | 71  | 66  | 75  | 70  | 65  |  | 73  | 69  | 65  |  | 72  | 68  | 64  | 63  |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 65  | 61  | 70  | 64  | 60  |  | 69  | 64  | 60  |  | 67  | 63  | 59  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  |  | 64  | 59  | 55  |  | 63  | 59  | 55  | 53  |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 62  | 56  | 52  |  | 61  | 55  | 52  |  | 60  | 55  | 51  | 50  |
| 9   | 70  | 60  | 53  | 49  | 69  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 52  | 48  |  | 56  | 51  | 48  | 46  |
| 10  | 67  | 56  | 50  | 45  | 66  | 56  | 50  | 45  | 55  | 49  | 45  |  | 54  | 49  | 45  |  | 53  | 48  | 45  | 44  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 425681 |
| 5°  | 417679 |
| 10° | 393383 |
| 15° | 353688 |
| 20° | 300581 |
| 25° | 243402 |
| 30° | 190281 |
| 35° | 146582 |
| 40° | 112188 |
| 45° | 85227  |
| 50° | 64276  |
| 55° | 49414  |
| 60° | 39956  |
| 65° | 33638  |
| 70° | 28905  |
| 75° | 24715  |
| 80° | 19063  |
| 85° | 10778  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4337.4  | 9.6       |
| 10°-20°   | 10572.9 | 23.3      |
| 20°-30°   | 11292.4 | 24.9      |
| 30°-40°   | 8467.9  | 18.7      |
| 40°-50°   | 5266.8  | 11.6      |
| 50°-60°   | 2906.4  | 6.4       |
| 60°-70°   | 1595.8  | 3.5       |
| 70°-80°   | 761.9   | 1.7       |
| 80°-90°   | 147.6   | 0.3       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-30°    | 26202.7 | 57.8      |
| 0°-40°    | 34670.6 | 76.5      |
| 0°-60°    | 42843.8 | 94.5      |
| 0°-90°    | 45349.1 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 45349.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux  |
|-----|-------|-------|
| 0°  | 47580 |       |
| 5°  | 46508 | ###   |
| 15° | 38186 | 10573 |
| 25° | 24657 | 11292 |
| 35° | 13421 | 8468  |
| 45° | 6736  | 5267  |
| 55° | 3168  | 2906  |
| 65° | 1589  | 1596  |
| 75° | 715   | 762   |
| 85° | 105   | 148   |
| 90° | 0     |       |



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**CANDELA DISTRIBUTION (FULL):**

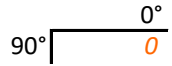
| 0°    |       |
|-------|-------|
| 0°    | 47580 |
| 1°    | 47527 |
| 2°    | 47395 |
| 3°    | 47175 |
| 4°    | 46871 |
| 5°    | 46508 |
| 6°    | 46044 |
| 7°    | 45476 |
| 8°    | 44832 |
| 9°    | 44126 |
| 10°   | 43302 |
| 11°   | 42409 |
| 12°   | 41457 |
| 13°   | 40430 |
| 14°   | 39335 |
| 15°   | 38186 |
| 17.5° | 35031 |
| 20°   | 31571 |
| 22.5° | 28056 |
| 25°   | 24657 |
| 27.5° | 21424 |
| 30°   | 18419 |
| 32.5° | 15783 |
| 35°   | 13421 |
| 37.5° | 11389 |
| 40°   | 9606  |
| 42.5° | 8056  |
| 45°   | 6736  |
| 47.5° | 5571  |
| 50°   | 4618  |
| 52.5° | 3820  |
| 55°   | 3168  |
| 57.5° | 2636  |
| 60°   | 2233  |
| 62.5° | 1875  |
| 65°   | 1589  |
| 67.5° | 1326  |
| 70°   | 1105  |
| 72.5° | 906   |
| 75°   | 715   |
| 77.5° | 533   |
| 80°   | 370   |
| 82.5° | 222   |
| 85°   | 105   |
| 87.5° | 31    |



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)