

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: G2-1810-991-16

Luminaire Tested: **G8-N-PC-340-5600**

Test Date: 10/25/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1810-991-16  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 10/25/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: G8-N-PC-340-5600  
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 3.4, 5600K CCT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

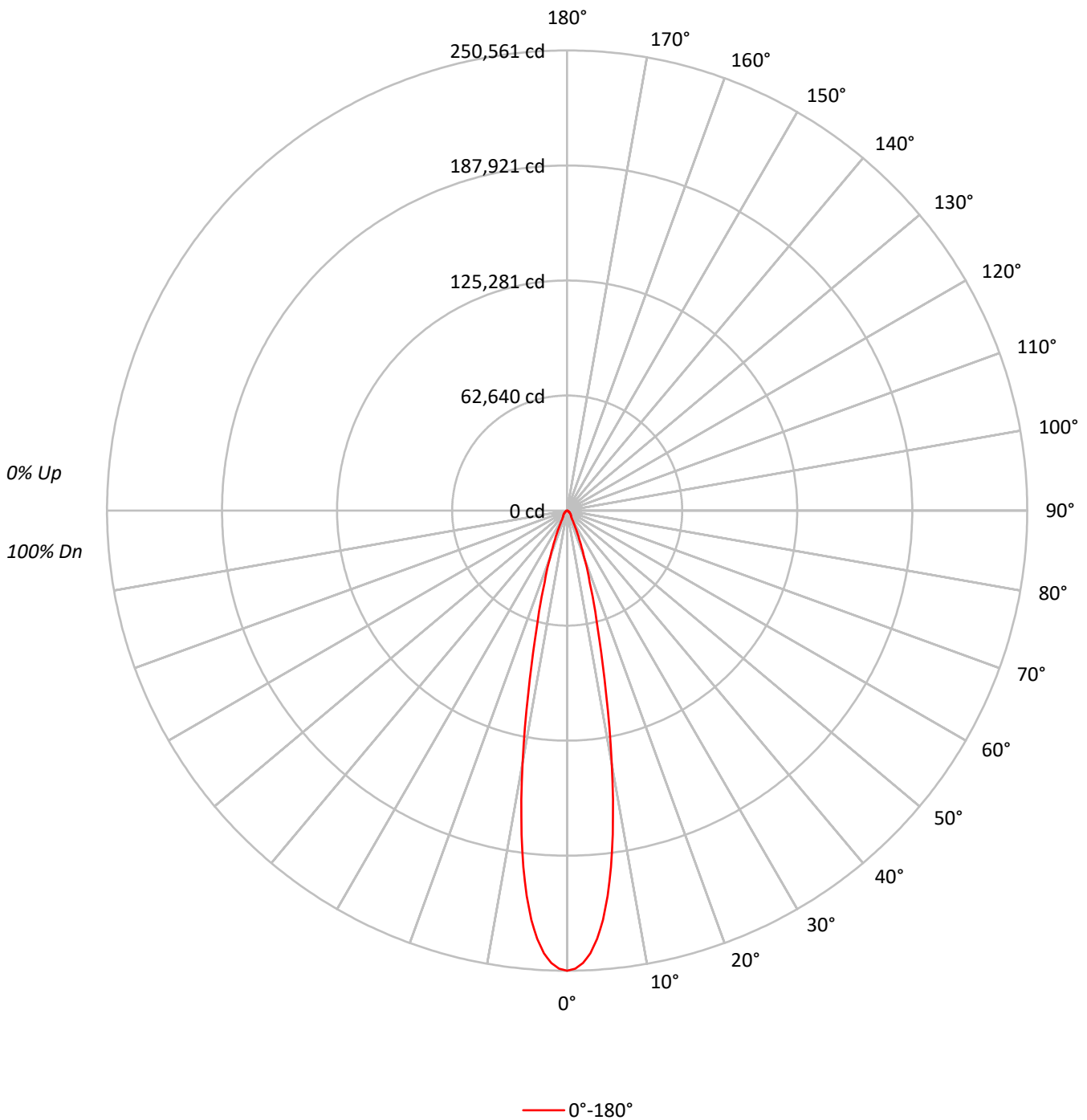
Lumens per Lamp: N/A  
Luminaire Lumens: 48966.4 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.36  
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 429.2  
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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### 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   | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  |
| 2   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 99  | 97  | 99  | 97  | 95  | 96  | 94  | 93  | 91  |
| 3   | 106 | 101 | 97  | 94  | 104 | 100 | 96  | 93  | 97  | 94  | 92  | 95  | 93  | 90  | 93  | 91  | 89  | 88  |
| 4   | 103 | 97  | 92  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 88  | 85  | 90  | 87  | 84  | 89  | 86  | 83  | 87  | 85  | 83  | 81  |
| 6   | 96  | 90  | 85  | 82  | 95  | 89  | 85  | 81  | 87  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 80  | 79  |
| 7   | 93  | 86  | 82  | 79  | 92  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 80  | 77  | 76  |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 79  | 76  | 81  | 78  | 76  | 81  | 78  | 75  | 74  |
| 9   | 88  | 81  | 77  | 74  | 87  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 79  | 75  | 73  | 72  |
| 10  | 86  | 79  | 75  | 72  | 85  | 79  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 71  | 77  | 74  | 71  | 70  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2139782 |
| 5°  | 1918056 |
| 10° | 1211541 |
| 15° | 540844  |
| 20° | 248494  |
| 25° | 109719  |
| 30° | 53832   |
| 35° | 38480   |
| 40° | 34949   |
| 45° | 29855   |
| 50° | 23356   |
| 55° | 18745   |
| 60° | 15457   |
| 65° | 11902   |
| 70° | 9613    |
| 75° | 7886    |
| 80° | 6492    |
| 85° | 5487    |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 18600.6 | 38.0      |
| 10°-20°   | 18048.3 | 36.9      |
| 20°-30°   | 5935.3  | 12.1      |
| 30°-40°   | 2423.9  | 5.0       |
| 40°-50°   | 1891.1  | 3.9       |
| 50°-60°   | 1146.1  | 2.3       |
| 60°-70°   | 603.2   | 1.2       |
| 70°-80°   | 257.0   | 0.5       |
| 80°-90°   | 60.9    | 0.1       |
| 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°    | 42584.2 | 87.0      |
| 0°-40°    | 45008.1 | 91.9      |
| 0°-60°    | 48045.3 | 98.1      |
| 0°-90°    | 48966.4 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 48966.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°     | Flux  |
|-----|--------|-------|
| 0°  | 250561 |       |
| 5°  | 223743 | ###   |
| 15° | 61173  | 18048 |
| 25° | 11644  | 5935  |
| 35° | 3691   | 2424  |
| 45° | 2472   | 1891  |
| 55° | 1259   | 1146  |
| 65° | 589    | 603   |
| 75° | 239    | 257   |
| 85° | 56     | 61    |
| 90° | 0      |       |



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**CANDELA DISTRIBUTION (FULL):**

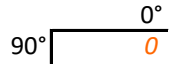
| 0°    |        |
|-------|--------|
| 0°    | 250561 |
| 1°    | 249522 |
| 2°    | 246508 |
| 3°    | 241336 |
| 4°    | 233818 |
| 5°    | 223743 |
| 6°    | 211014 |
| 7°    | 195678 |
| 8°    | 178121 |
| 9°    | 159234 |
| 10°   | 139712 |
| 11°   | 120328 |
| 12°   | 101949 |
| 13°   | 86200  |
| 14°   | 72506  |
| 15°   | 61173  |
| 17.5° | 40887  |
| 20°   | 27343  |
| 22.5° | 18000  |
| 25°   | 11644  |
| 27.5° | 7748   |
| 30°   | 5459   |
| 32.5° | 4245   |
| 35°   | 3691   |
| 37.5° | 3365   |
| 40°   | 3135   |
| 42.5° | 2843   |
| 45°   | 2472   |
| 47.5° | 2084   |
| 50°   | 1758   |
| 52.5° | 1473   |
| 55°   | 1259   |
| 57.5° | 1078   |
| 60°   | 905    |
| 62.5° | 737    |
| 65°   | 589    |
| 67.5° | 473    |
| 70°   | 385    |
| 72.5° | 297    |
| 75°   | 239    |
| 77.5° | 181    |
| 80°   | 132    |
| 82.5° | 93     |
| 85°   | 56     |
| 87.5° | 9      |



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)