

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: G2-1810-991-8

Luminaire Tested: **G8-N-PC-420-4000**

Test Date: 10/23/18

Test Information

Test Method: LM-79-08
Report Number: G2-1810-991-8
Test Lab: INNOVATION CENTER(G2)
Test Date: 10/23/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: G8-N-PC-420-4000
Description: EPHESUS G8 LUMINAIRE. UNIT TESTED EPH-G8-HV-N-PC-WHT-IP. BEAM SHAPE 4.2, 4000K CCT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

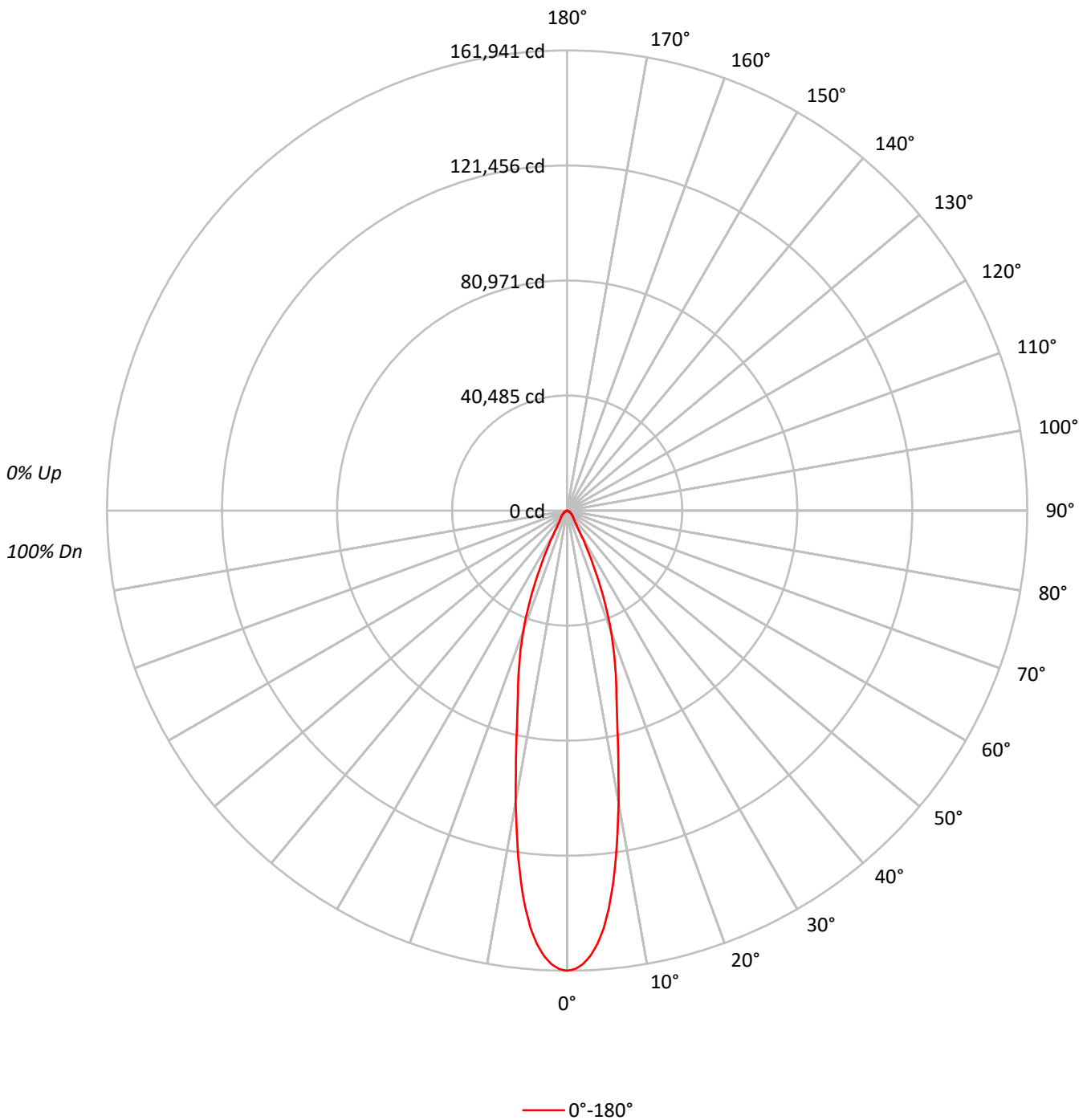
Lumens per Lamp: N/A
Luminaire Lumens: 50222.1 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.5
Luminous Opening: Rectangular (W 1.38' x L: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 407.4
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: 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 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | | 102 | 100 | 99 | | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | | 97 | 95 | 93 | | 94 | 93 | 91 | 90 |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 91 | 95 | 92 | 89 | | 93 | 90 | 88 | | 91 | 88 | 86 | 85 |
| 4 | 101 | 94 | 89 | 86 | 99 | 93 | 88 | 85 | 91 | 87 | 84 | | 89 | 86 | 83 | | 87 | 84 | 82 | 81 |
| 5 | 97 | 89 | 84 | 81 | 95 | 89 | 84 | 80 | 87 | 83 | 80 | | 85 | 82 | 79 | | 84 | 81 | 78 | 77 |
| 6 | 93 | 85 | 80 | 77 | 92 | 85 | 80 | 76 | 83 | 79 | 76 | | 82 | 78 | 75 | | 81 | 77 | 75 | 74 |
| 7 | 90 | 82 | 77 | 73 | 88 | 81 | 76 | 73 | 80 | 76 | 73 | | 79 | 75 | 72 | | 78 | 74 | 72 | 71 |
| 8 | 86 | 78 | 73 | 70 | 85 | 78 | 73 | 70 | 77 | 73 | 70 | | 76 | 72 | 69 | | 75 | 72 | 69 | 68 |
| 9 | 83 | 75 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | | 73 | 69 | 67 | | 73 | 69 | 66 | 65 |
| 10 | 81 | 73 | 68 | 65 | 80 | 72 | 68 | 65 | 72 | 67 | 64 | | 71 | 67 | 64 | | 70 | 67 | 64 | 63 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1382970 |
| 5° | 1264370 |
| 10° | 903384 |
| 15° | 591327 |
| 20° | 410143 |
| 25° | 218628 |
| 30° | 92053 |
| 35° | 49646 |
| 40° | 39119 |
| 45° | 32899 |
| 50° | 26386 |
| 55° | 21068 |
| 60° | 16653 |
| 65° | 13296 |
| 70° | 9738 |
| 75° | 8183 |
| 80° | 6541 |
| 85° | 4997 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 12636.0 | 25.2 |
| 10°-20° | 18919.6 | 37.7 |
| 20°-30° | 10988.4 | 21.9 |
| 30°-40° | 3307.4 | 6.6 |
| 40°-50° | 2099.9 | 4.2 |
| 50°-60° | 1283.0 | 2.6 |
| 60°-70° | 656.5 | 1.3 |
| 70°-80° | 269.2 | 0.5 |
| 80°-90° | 62.1 | 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° | 42544.1 | 84.7 |
| 0°-40° | 45851.4 | 91.3 |
| 0°-60° | 49234.3 | 98.0 |
| 0°-90° | 50222.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 50222.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|--------|-------|
| 0° | 161941 | |
| 5° | 147490 | ### |
| 15° | 66883 | 18920 |
| 25° | 23202 | 10988 |
| 35° | 4762 | 3307 |
| 45° | 2724 | 2100 |
| 55° | 1415 | 1283 |
| 65° | 658 | 657 |
| 75° | 248 | 269 |
| 85° | 51 | 62 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

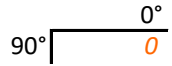
| 0° | |
|-------|--------|
| 0° | 161941 |
| 1° | 161354 |
| 2° | 159690 |
| 3° | 156881 |
| 4° | 152872 |
| 5° | 147490 |
| 6° | 140640 |
| 7° | 132514 |
| 8° | 123436 |
| 9° | 113665 |
| 10° | 104176 |
| 11° | 94638 |
| 12° | 86220 |
| 13° | 78638 |
| 14° | 72271 |
| 15° | 66883 |
| 17.5° | 55863 |
| 20° | 45130 |
| 22.5° | 33865 |
| 25° | 23202 |
| 27.5° | 14949 |
| 30° | 9335 |
| 32.5° | 6273 |
| 35° | 4762 |
| 37.5° | 4017 |
| 40° | 3509 |
| 42.5° | 3115 |
| 45° | 2724 |
| 47.5° | 2343 |
| 50° | 1986 |
| 52.5° | 1678 |
| 55° | 1415 |
| 57.5° | 1185 |
| 60° | 975 |
| 62.5° | 805 |
| 65° | 658 |
| 67.5° | 515 |
| 70° | 390 |
| 72.5° | 319 |
| 75° | 248 |
| 77.5° | 193 |
| 80° | 133 |
| 82.5° | 96 |
| 85° | 51 |
| 87.5° | 15 |



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)