# Photometric Report

impressionXL

GLP
GERMAN LIGHT PRODUCTS
since 1994

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# Impression 240 XL RGBWWC 10°– Photometric Report

**GLP R&D Center Germany, 15.07.2010**

| | |
|---|---|
| **Manufacturer:** | GLP German Light Products GmbH, Im Stöckmädle 13, 76307 Karlsbad, Germany |
| **Product:** | Impression 240 XL RGBWWC 10° |

**Light Source:**

| | |
|---|---|
| Model: | Philips Lumileds Luxeon K2 LED |
| Configuration: | 50 x red, 50 x green, 56 x blue, 54 x warm white, 30 x cold white LEDs color LED in RGB array configuration |
| Rated Service Lifetime: | 50000 h |

**Power Supply:**

| | |
|---|---|
| Power supply: | Electronic, built in |
| Power Factor: | 0.972 |

**Test conditions:**

| | |
|---|---|
| AC supply: | U = 230 V AC / f = 50Hz |
| Lens Option: | 10° |
| Frost Filter Option: | no |
| Room Temp.: | 25℃ |
| Position: | horizontal |
| Symmetry: | rational |
| Efficiency factor: | 100% |

**Photometric Procedure:**

| | |
|---|---|
| Date: | 15.07.2010 |
| Goniometer Model: | LMT GO-DS 2000 automated Goniometer |
| Measurement Method: | DIN EN 13032-1 / C-Layer Measurement dC15ϑ dG0,5° |
| Throw distance: | 14,56m |
| Data File Format: | according to ANSI/IESNA LM-63-02 |
| File Name: | Impression 240 XL RGBWWC 10°red.ies<br>Impression 240 XL RGBWWC 10°.ies |

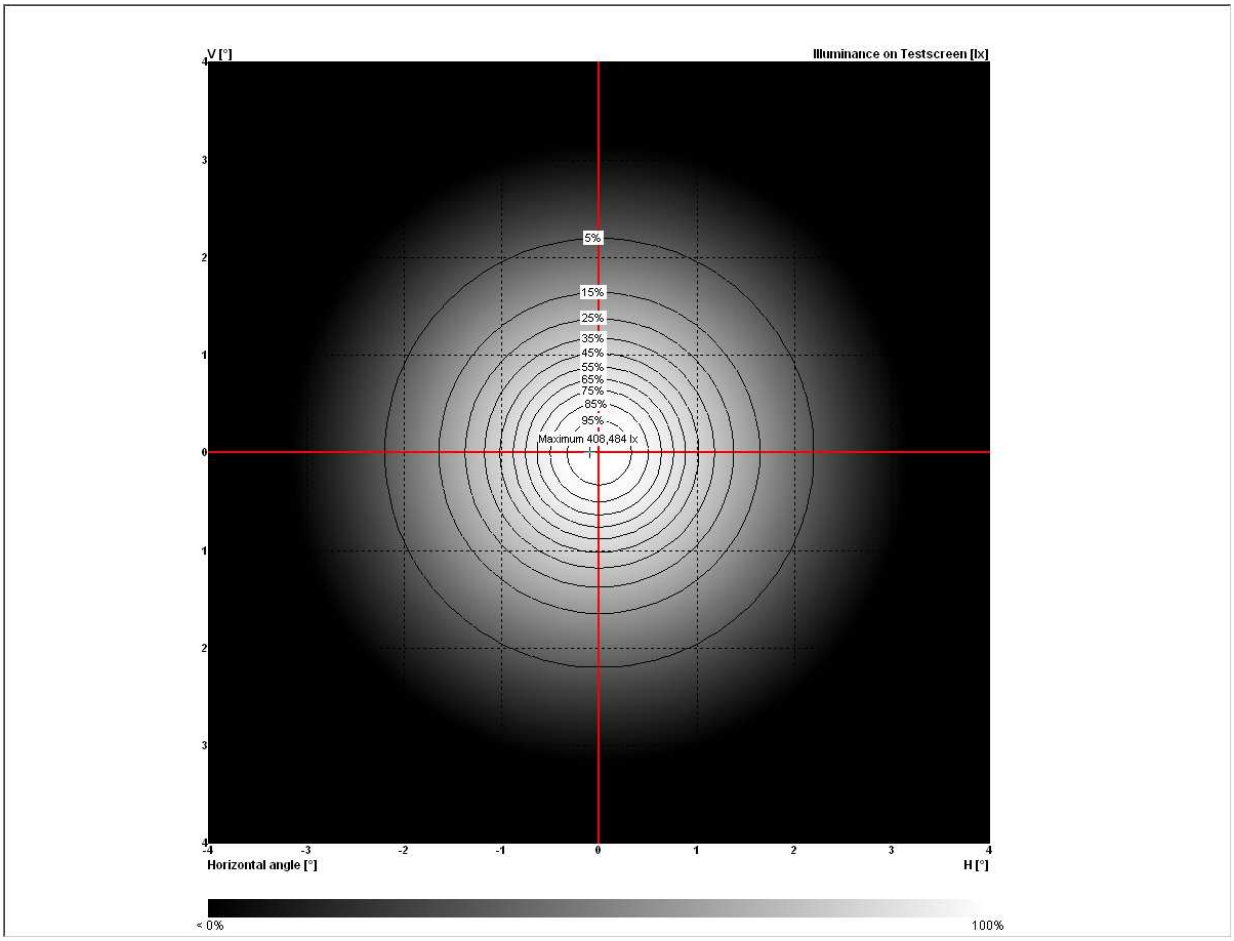
| **Output:** | | **Electric Variable:** | |
|---|---|---|---|
| Total: | γ 90° = 11668 lumens<br>γ 0° = 19283 cd/klm | Power Consumption:<br>Current Draw: | P = 577 W<br>I = 2,57 A |
| Red only: | γ 90° = 2097 lumens<br>γ 0° = 19384 cd/klm | Power Consumption:<br>Current Draw: | P = 181 W<br>I = 0,88 A |

**Luminaire Type:** Multiple-lamp Far-field luminaire
**Luminaire efficacy:** 20.2 lm/W
**Intended throw:** >= 3m

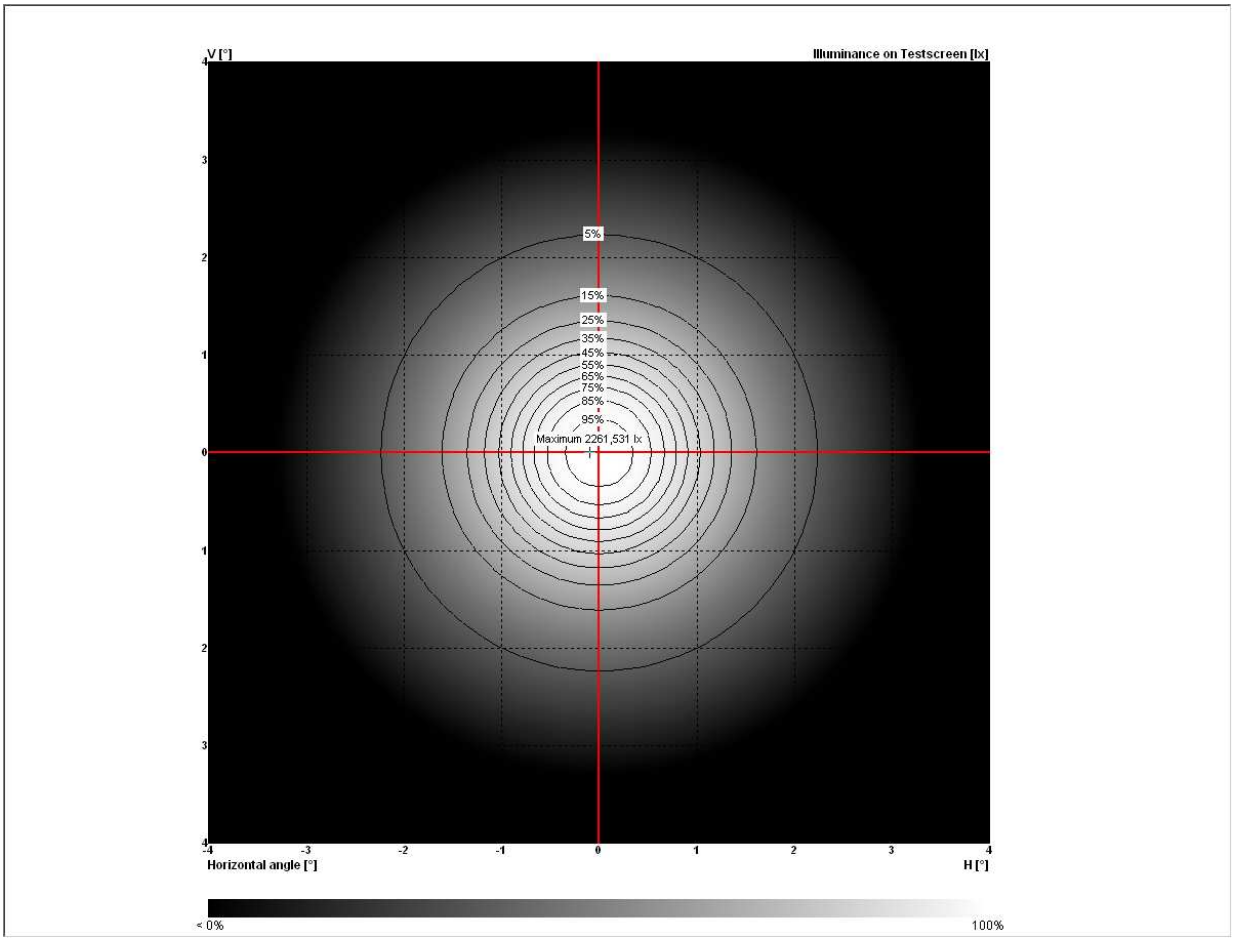
**Ambient Temperature Limits:** 0℃ – 45℃
**Dimension (L x W x H):** 360 x 521 x 450 mm
**Dimension Lens (H x Ø):** 31 x 350 mm
**Weight:** 23.5 Kg
**Approvals:** Din EN ISO/IEC 17025:2005, EN 60598-1, EN 60598-2-17, EN 55 015, EN 55 103, EN 61 000-3
ANSI/UL 1573, CSA C22.2 No. 166

## Illuminance distribution diagram

Red

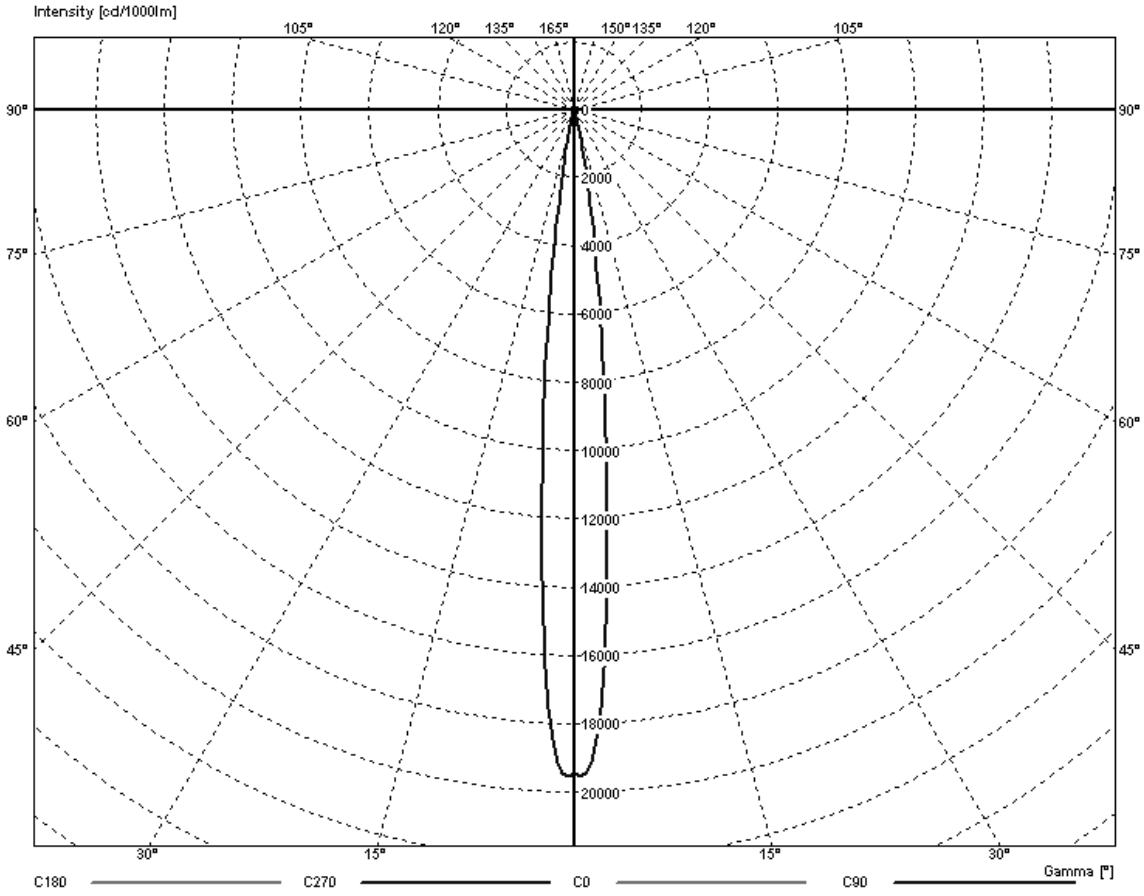


White

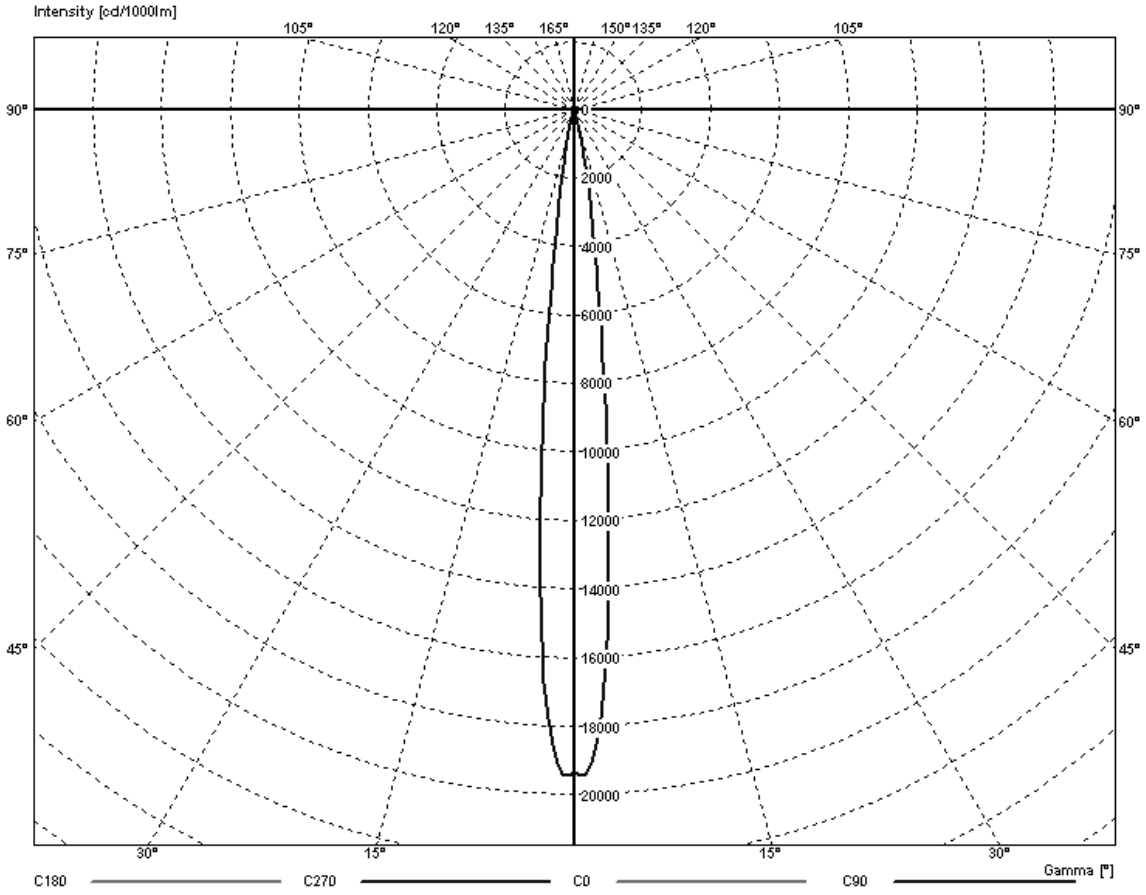

V [°]
Illuminance on Testscreen [lx]
5%
15%
25%
35%
45%
55%
65%
75%
85%
95%
Maximum 2261,531 lx
Horizontal angle [°]
H [°]
< 0%
100%

**Polarcurve diagrams:**

Red



White


Intensity [cd/1000lm]
105°
120°
135°
165°
150°
135°
120°
105°
90°
75°
60°
45°
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
30°
15°
15°
30°
Gamma [°]
C180
C270
C0
C90