

Commission

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| Manufacturer | GRAH LED Lighting |
| Subject of measurement | LSL-30-01-A-00-042-AA-LS-4200-49 (SN: 00407532N0001) Ident-Nummer: 1810711 |
| Fitted with | LED module |
| Measuring task | Analysis of light distribution (far field light intensity distribution, LID) in accordance with DIN EN 13032-1 |

Testing conditions

| | | | |
|--|--|-----------------------|--|
| Measurement no. | 7866 | Ambient temperature | $T_{\text{Labor}} = 24,4 \text{ }^{\circ}\text{C}$ |
| Date of measurement | 05.06.14 | Electrical parameters | $U = 229,9 \text{ V}$ |
| Measurement apparatus | TechnoTeam RiGo801 near field goniometer | | $I = 0,216 \text{ A}$ |
| Warm-up time used for sample $t > 1\text{h}$ | | | $P = 48,0 \text{ W}$ |

Dimensions of luminaire

| | |
|--------|--------|
| Length | 430 mm |
| Width | 310 mm |
| Height | 135 mm |

Dimensions of radiant surface

| | |
|--------|--------|
| Length | 175 mm |
| Width | 230 mm |

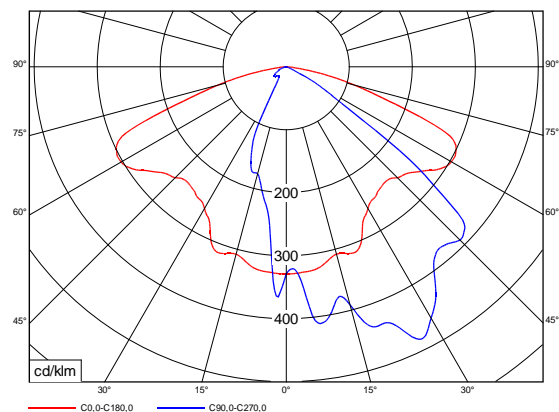
Photograph of sample



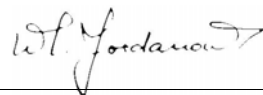
Measurements obtained

| | |
|--------------------------------------|---------------------|
| Total flux (utilized luminaire flux) | 5212 lm |
| Flux in lower hemisphere | 100,0 % |
| Flux in upper hemisphere | 0,0 % |
| Maximum luminous intensity | 624,9 cd/klm |
| on C level | 22,5 ° |
| at γ angle | 55,0 ° |
| Light output ratio (LOR) | 100 % |
| luminous efficacy | 108,6 lm/W |

Light intensity distribution, Radiation pattern

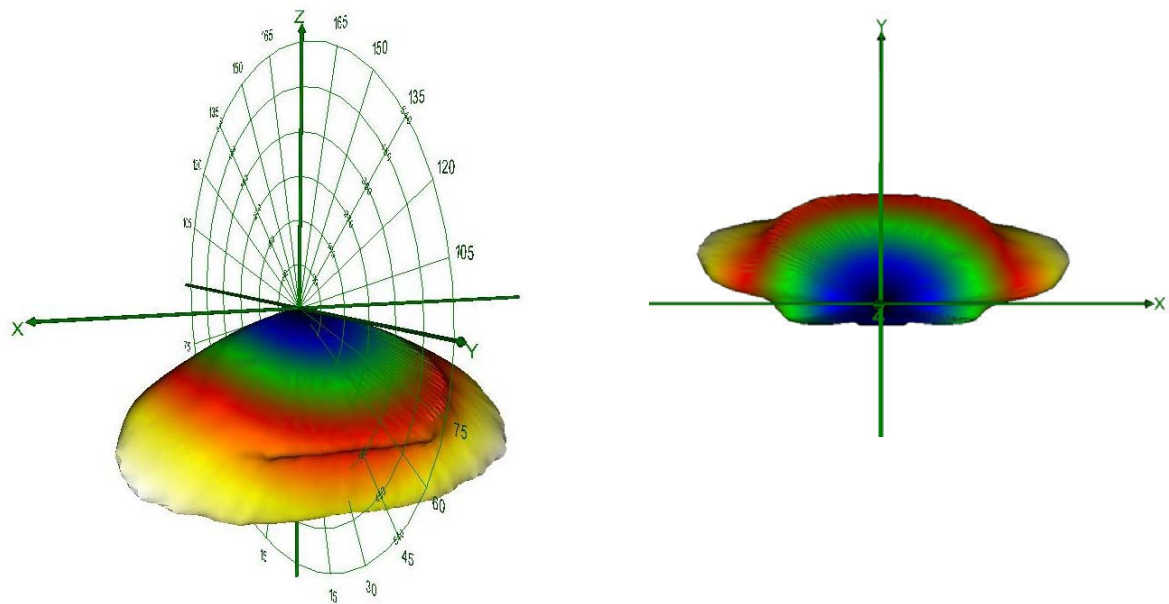


Ilmenau, 11th. June, 2013



W. Jordanow, Graduate Engineer Laboratory Manager

Light intensity distribution, 3D diagram



Isolux diagram

