

## Commission

Manufacturer	GRAH LED Lighting
Subject of measurement	<b>LSL-30-01-A-00-032-AA-LS-4200-34 (SN: 00407528N0001)</b> <b>Ident-Nummer: 1800711</b>
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.	7865	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		$I = 0,158 \text{ A}$
Warm-up time used for sample $t > 1\text{h}$			$P = 34,5 \text{ W}$

### Dimensions of luminaire

Length	430 mm
Width	310 mm
Height	135 mm
Dimensions of radiant surface	
Length	175 mm
Width	230 mm

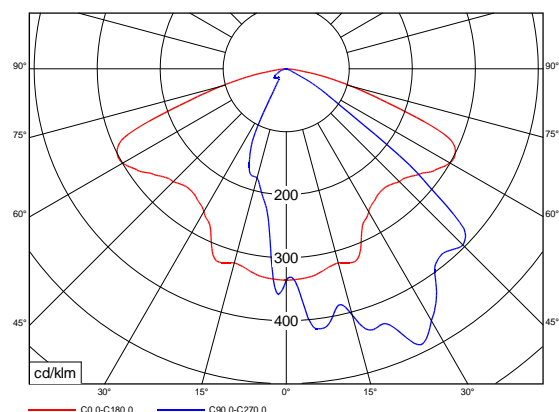
### Photograph of sample



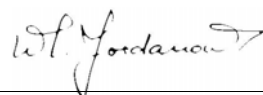
## Measurements obtained

Total flux (utilized luminaire flux)	<b>3947 lm</b>
Flux in lower hemisphere	100,0 %
Flux in upper hemisphere	0,0 %
Maximum luminous intensity	610,1 cd/klm
on C level	22,5 °
at $\gamma$ angle	54,0 °
Light output ratio (LOR)	100 %
luminous efficacy	<b>114,4 lm/W</b>

### Light intensity distribution, Radiation pattern

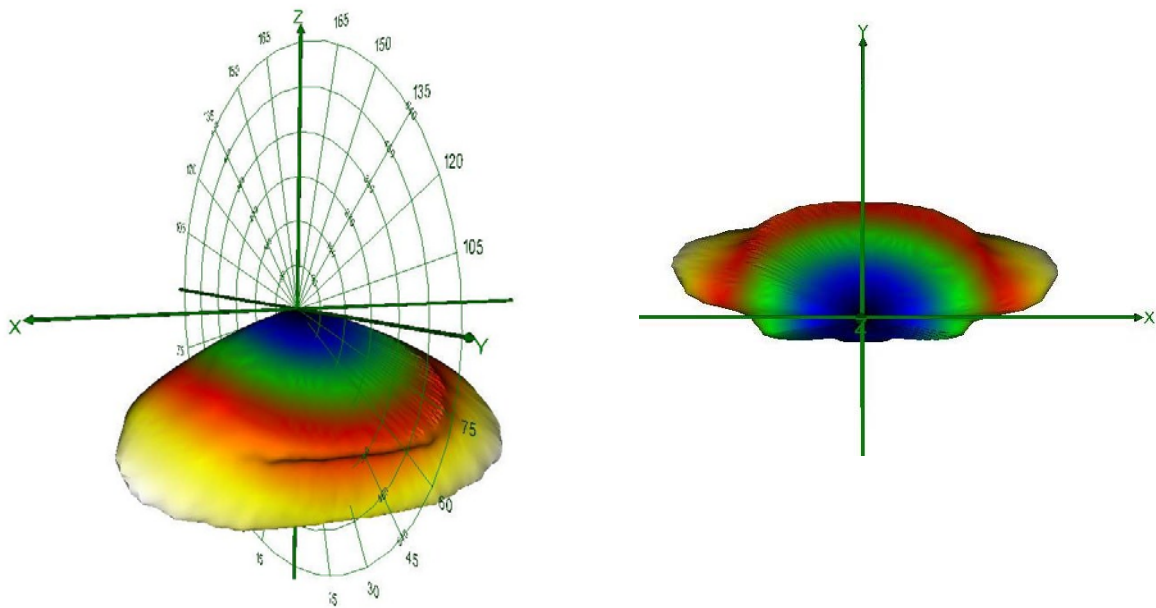


Ilmenau, 11th. June, 2013



W. Jordanow, Graduate Engineer Laboratory Manager

## Light intensity distribution, 3D diagram



## Isolux diagram

