

Lighting Systems



REGIOLUX

Lighting Systems

functional - effective - efficient

Exclusion of Liability

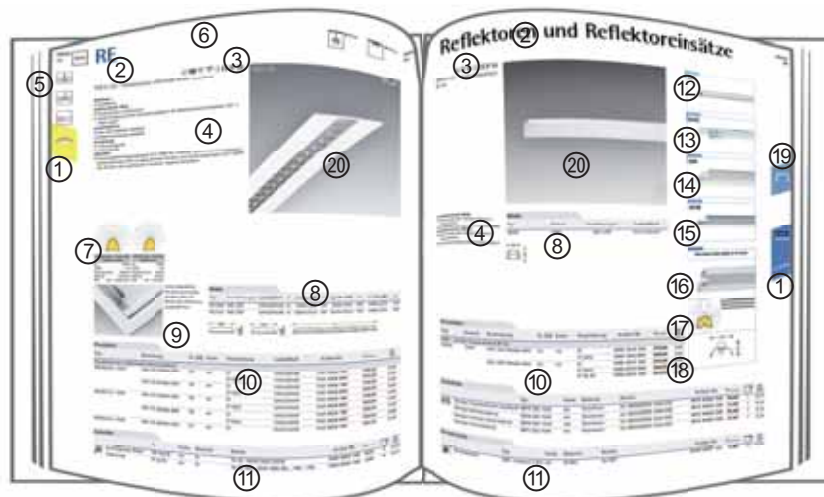
Illustrations, dimensions and weights in our catalogues, price lists and quotations are non-binding. Subject to technical changes, errors and color deviations. All luminaires have been designed for 230V 50Hz mains connection and ambient conditions according to DIN EN 60598 unless otherwise stated, and are supplied without lamps unless otherwise stated. Most of the indications with regard to certifications are presented in our catalogue in a general form. Verification with regard to products can be easily carried out on our website.

Because of the dynamics in the technical development especially in the field of LED modules and their drivers, the information in this paper can only be a snapshot of the current state and are therefore legally not binding. Please refer to our web site for current product specifications.

We point out that the orderer recognises our delivery and payment conditions unless he/she objects in writing when sending his/her order.

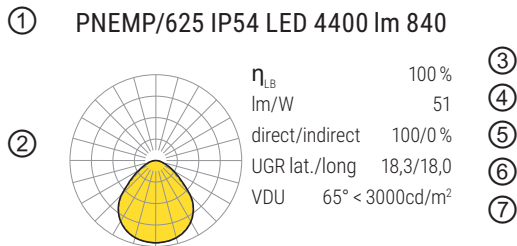


Description of page layout



- ① Product group
- ② Luminaire family, type
- ③ Certification: Overview and explanation in Technical information chapter 8: 8.6 Certification, insulation class and protection rating
- ④ Description with regard to lighting technology, housing, miscellaneous
- ⑤ Indications with regard to ceiling systems
- ⑥ Reference to accessories pages and products in other product groups
- ⑦ Light distribution curve (LVK) with data with regard to lighting technology of the reference product.
Explanations in the following area Explanations
- ⑧ Dimensional table and sectional drawings: Explanations of the variables in the following area Explanations
- ⑨ Detail image with explanation
- ⑩ Product table: Explanations of the abbreviations in the following area Explanations
- ⑪ Table with spare parts / accessories (if available): Explanations of the abbreviations in the following area Explanations
- ⑫ Combination quick-fit mounting system: Component mounting rail
- ⑬ Combination quick-fit mounting system: Component device mount
- ⑭ Combination quick-fit mounting system: Component light direction
- ⑮ Combination quick-fit mounting system: Component light direction insert
- ⑯ Quick-fit mounting system: Combination
- ⑰ Quick-fit mounting system: Light distribution curve of the combination, explanations in the following area Explanations
- ⑱ Quick-fit mounting system: Dimensioned drawing of the combination
- ⑲ Indication to the product area mounting rail / device mount / light direction
- ⑳ Product image with icons and indication for functions and features

Explanation of lighting technological data



1. Configuration

Possible deviations of luminous flux between magnetic ballasts (Llb) and electronic ballasts (ECG) are not considered.

2. Luminous intensity distribution

Luminous intensity distribution curves shown in the catalogue are represented according to DIN 5032. Only both primary planes are displayed: 0°/180° planes (at right angles to luminaire axis) as a continuous line and 90°/270° (parallel to luminaire axis) as a dotted line. Curves are scaled to represent 1000 lumens of lamp luminous flux.

3. Light output ratios η_{LB}

Light output ratios specified for each luminaire are calculated from the relation of luminous flux $\Phi_L(\tau)$ emitted from the luminaire with an ambient luminaire temperature $\tau_a = 25^\circ \text{C}$ and further standardised conditions to the sum of measured luminous flux of the lamps with open distribution transferred individually to the luminaire ballast.

In the case of LED luminaires, the principle of absolute photometry is increasingly applied. In this case, the light output ratio is indicated with 100%. Additionally, the luminous flux is indicated in the form of the measured luminous flux of the luminaire.

4. Luminous efficiency

The luminous efficiency is the luminous flux of a bulb or luminaire related to its electrical power consumption.

In the case of LED luminaires presented according to the principle of absolute photometry (light output ratio 100%), the indication refers to the lumen output of the luminaire which is described by the ratio between luminous flux of the luminaire and system performance of the luminaire.

5. Direct and indirect light components

For evaluating the efficiency and lighting effect of a lighting system within a room, specification of the direct and indirect beam components is helpful.

6. Glare reduction according to UGR method

According to DIN EN 12464-1, not only is reflected glare considered but also direct glare within a specific room. As a standard evaluation system the UGR (Unified Glare Rating) method was introduced in Europe as part of the DIN EN 12464-1 standard. Details concerning the UGR method are described in the CIE 117 publication. The UGR values (lat. and long) of a lighting installation, determined according a table for the position of a standard viewer, are not permitted to exceed the value specified by the standard. In order to compare the direct glare of various luminaires, UGR values of a number of manufacturers are specified with reference to a so-called standard room. Please note that a correct comparison is only possible if all room conditions are identical. In addition it must be noted that UGR values for a real installation may significantly differ to those of the standard room.

Values given are based upon the following definitions.

Room dimensions:

Distance of eye level to luminaire level: H

Room width X = 4H

Room length Y = 8H

Standard reflection factors (0,7 ceiling; 0,5 walls; 0,2 floor)

Luminaire arrangement parallel to Y axis Luminaire distances:

Distance of luminaire to luminaire (spacing) S = 0,25H

Distance of luminaire to wall $\frac{1}{2} S = 0,125H$

Explanation of lighting technological data

7. Suitability for VDU workstations

Here, the suitability of luminaires for VDU workstations according to DIN EN 12464-1 is specified. The degree number means that the luminance in all luminaire planes beyond that angle does not exceed certain limitation values. Depending on screen quality and screen visualisation, the norm specifies different limitation values. In case of a positive display on screens with an own luminance (< 200 cd/m²), a maximum of 1500 cd/m² and in case of screens with a high luminance (> 200 cd/m²), a maximum of 3000 cd/m² is permissible.

Control gear

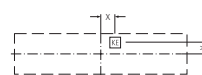
Abbr.	Description
ECG	Electronic ballast
Llb	Low-loss ballast
ind	Inductive, must be compensated on-site
multi	Multiwatt T5
ED	Electronic driver, not dimmable
EDM	Electronic driver Multi, not dimmable (8 or 16 adjustable lighting levels)
DALI	Electronic driver, DALI, dimmable
DALI DT8	Electronic driver, DALI, dimmable, change of light color (Tunable white)
LC.	Device with integrated LC components of special type
M.	Master unit Typ 1-N
S.	Sensor unit Typ 1-N
NL-B1, NL-B3	Emergency light single battery; 1=1h, 3=3h

Explanations

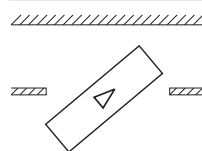
Definition of measurement table variables

Abbr.	Description
A	Distance between the individual luminaires
A1	Fixing distance in case of single mounting
A2	Fixing distance for first or last luminaire in case of light run mounting
A3	Fixing distance for the middle luminaires or between the luminaires in case of light run mounting
A4	Fixing distance (width)
B	Width
D	Diameter
DA	Diameter of cut for recessed luminaires
DA _b	Width of cut for recessed luminaires
DA _L	Length of cut for recessed luminaires
DS min	Minimum ceiling thickness with suspended ceiling
DS max	Maximum ceiling thickness with suspended ceiling
Db	Sensor detection diameter
Dr	Sensor detection diameter ideal movement towards the sensor
Ds	Sensor detection diameter seated activity
Dt	Sensor detection diameter tangential movement parallel towards the sensor
Et	Mounting depth (necessary depth for luminaire mounting)
Et min	Minimum mounting depth (necessary depth for luminaire mounting during celing construction)
FB	Width of luminaire groundplate
FD	Diameter of luminaire groundplate
FL	Length of luminaire groundplate
H	Height
HS	Installation height of sensor
KB	Width of luminaire head or ballast box
KD	Diameter of luminaire head or ballast box
KE	Cable infeed
KH	Height of luminaire head or ballast box
KL	Length of luminaire head or ballast box
L	Length
L2	Additional length
MB	Modul (axes) width
ML	Modul (axes) length
P	Suspension length
Pmin	Minimum suspension length
Pmax	Maximum suspension length
P _{Sys}	Luminaire system performance
T	Depth
W	Wall distance
X	Distance from middel of the luminaire to the electrical feed in (X direction = length)
Y	Distance from middel of the luminaire to the electrical feed in (Y direction = width)

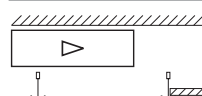
Description of measurement table variables



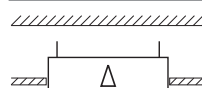
1. Positioning of electrical feed in.



2. Required installation depth "Et" for swivelling of luminaire in visible T rail constructions (lay-in luminaires). Required installation depth "Et" for swivelling luminaire and control gear (if applicable) through ceiling cut-out (clamp mounting).



3. Reduced installation depth "Et min" with aligning of luminaire above T rail construction (during ceiling construction).



4. Required installation depth "Et" for swivelling of mounting bracket (clamp mounting).

Ceiling systems



Ceilings with visible T-rails



For concealed symmetrical rail constructions



For concealed asymmetrical rail constructions



For recessed ceilings



For panel ceilings, module 100, 150, 200

Cross references



Reference accessories



Reference mounting rail installation



Reference mounting note



Reference product groups

Icons / functions features



Configuraton with sensor available



Configuraton with emergency light unit available



Luminaires for HCL (human Centric Lighting)



Luminaires suitable for Advanced Services



Luminaires suitable for IoT (Internet of Things)



LED (included)



Beam angle

Materials	
Abbr.	Description
A03S-U	Recognised national cable type: measurement voltage 300 V to 300 V; Silicone rubber isolation material, heat-resistant to +180° C; Single-wire conductor, round
ABS	Acrylonitrile Butadiene Styrene Copolymerisate
Al	Aluminium
AlMgSi	Aluminium magnesium silicon (extruded section)
Cu	Copper
EPDM	Synthetic rubber
Glass	Glass
Glass matt	Matt glass
Glass (ESG)	Tempered single-pane safety glass
H03VV-F	Harmonised cable: measurement voltage 300 V to 300 V; Isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H05HH-F	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material flat, divisible cable; sheathing material flat, divisible cable; fine-strand conductor, flexible
H05S-U	Harmonised cable: measurement voltage 300 V to 500 V; silicone rubber isolation material, heat-resistant to +180° C; single-wire conductor, round
H05V2-U	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
H05VV-F	Harmonised cable: measurement voltage 300 V to 500 V; isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H07V2-U	Harmonised cable: measurement voltage 450 V to 750 V; isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
Inox	Stainless steel
Inox V2A	Stainless steel (alloy type 1.4301 or X5CrNi18-10)
Inox V4A	Stainless steel (alloy type 1.4401 or X5CrNiMo17-12-2)
Mix	Diverse materials
PA	Polyamide
PC	Polycarbonate
PMMA	Polymethylmethacrylate (acrylic glass)
Polymer	plastic (not defined specifically)
Polymer clear	Plastic (crystal clear)
Reinforced polymer	Plastic (with admixture of reinforcing materials)
PS	Polystyrene
PVC	Polyvinyl chloride
St	Steel
StZn	Steel with zinc coating

Colour code	
Abbr.	Colour
al	aluminium
aeH	aluminium high gloss
aes	aluminium matt gloss
aen	aluminium natural anodized
ap	aluminium plate finish
am	anthracite metallic
bl	blue
bl/cr	blue chrome
ce	cream
cr	chrome
eg	brushed stainless steel
ge	yellow
ge/cr	yellow chrome
ga	grey
gr	green
hg	light grey
hgl	high gloss
kg	pebble grey, RAL 7032
kgm	pebble grey metallic, RAL 7032
kl	clear
me	metallike
op	opal white
og	orange
ro	red
sw	black, RAL 9005
si	silver
sg	silver-grey, RAL 9006
tz	translucent
tp	transparent
vw	traffic white, RAL 9016
ws	white
wa	white-aluminium, RAL 9006



Sport hall luminaires

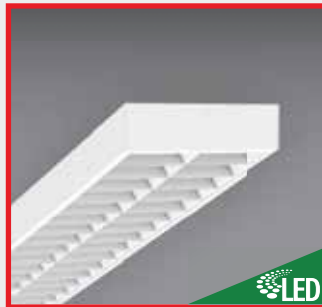
sportler



►465

- 466 SOHB LED
- 466 SOHTB LED

THL



►473

- 474 THLA LED
- 476 THLE LED





sportler

sportler – a winner for sports halls

- Ball impact-resistant, high-bay flat panel luminaire
- Efficient, anti-glare lighting technology with Individual.Lens.Optic
- Further light characteristics possible
- Output levels from 14,600 to 29,200 lumen
- Variety of mounting options



Type overview

- ▶ SOHB Individual.Lens.Optic direct wide distribution
- ▶ SOHTB Individual.Lens.Optic direct narrow/wide distribution

sportler LED



LED A++ CE IP 40

Mounting:

- Suspended
- Ceiling surface
- Mounting rail

Housing:

- Sheet steel housing, powder-coated

Lighting technology SOHB:

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct wide distribution

Lighting technology SOHTB:

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct narrow/wide distribution

Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

Switching:

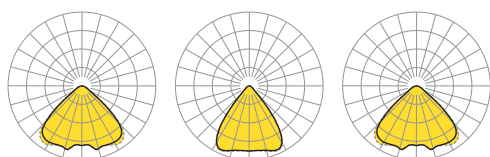
- Various switching modes available
- The number of control gears varies according to the version
- Electronic driver
- 230V 50Hz

Miscellaneous:

- Electrical connection via connection cable 2.3m

Accessories:

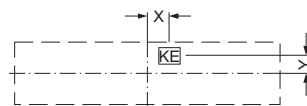
- Protection and mounting accessories must be ordered separately



SOHB/0700 IP40 LED 14600 lm 840	SOHTB/1000 IP40 LED 21900 lm 840	SOHB/1300 IP40 LED 29100 lm 840
η_{LB} 100% lm/W 149	η_{LB} 100% lm/W 149	η_{LB} 100% lm/W 149
direct/indirect 100/0%	direct/indirect 100/0%	direct/indirect 100/0%
UGR lat./long. 22,1/22,3	UGR lat./long. 19,1/19,4	UGR lat./long. 22,1/22,3

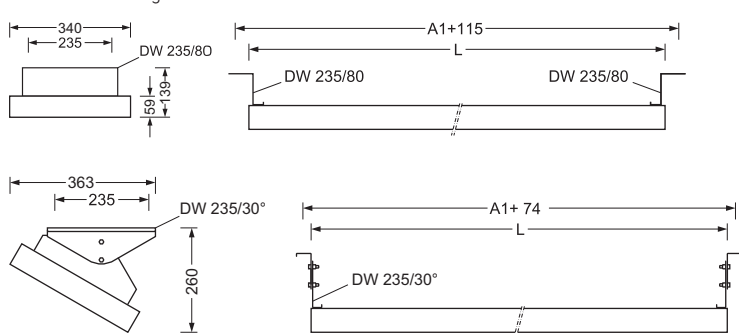
Dimensions

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
SOH./0700	LED	688 x 340 x 59	655	235	261 / 0
SOH./1000	LED	1013 x 340 x 59	980	235	423,5 / 0
SOH./1300	LED	1338 x 340 x 59	1305	235	586 / 0

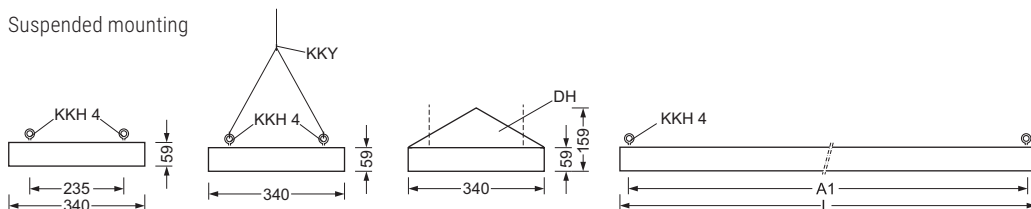


Mounting video

Surface mounting



Suspended mounting





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Individual.Lens.Optic direct wide distribution</i>								
sportler-SOHB/0700 IP40	LED 14600 840	149	98	vw	ED	688 x 340 x 59	3743 0124 110	6,40
					DALI ¹⁾	688 x 340 x 59	3743 0126 610	6,40
sportler-SOHB/1000 IP40	LED 21900 840	149	147	vw	ED	1013 x 340 x 59	3743 0224 110	9,00
					DALI ¹⁾	1013 x 340 x 59	3743 0226 610	9,00
sportler-SOHB/1300 IP40	LED 29100 840	149	196	vw	ED	1338 x 340 x 59	3743 0324 110	11,40
					DALI ¹⁾	1338 x 340 x 59	3743 0326 610	11,40
<i>Individual.Lens.Optic direct narrow/wide distribution</i>								
sportler-SOHTB/0700 IP40	LED 14600 840	149	98	vw	ED	688 x 340 x 59	3743 0124 130	6,40
					DALI ¹⁾	688 x 340 x 59	3743 0126 630	6,40
sportler-SOHTB/1000 IP40	LED 21900 840	149	147	vw	ED	1013 x 340 x 59	3743 0224 130	9,00
					DALI ¹⁾	1013 x 340 x 59	3743 0226 630	9,00
sportler-SOHTB/1300 IP40	LED 29200 840	149	196	vw	ED	1338 x 340 x 59	3743 0324 130	11,40
					DALI ¹⁾	1338 x 340 x 59	3743 0326 630	11,40

¹⁾ : Luminaires suitable for IoT (Internet of Things)

Further extremely glare-free variants for all sports according to EN 12193 are shown on www.regiolum.de

Accessories

	Type	Colour	Material	Details	Art. no.		kg
<i>Protection</i>							
Roof hood	DH /0700	vw	St	for sportler, worker	3729 0700 100	1	1,50
	DH /1000	vw	St	for sportler, worker	3729 1000 100	1	2,20
	DH /1300	vw	St	for sportler, worker	3729 1300 100	1	2,80
<i>Mounting</i>							
Chain suspension	KK	me	St	Node chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KKH 4	me	St	Chain carabiner suspension kit for worker, sportler	3729 0004 100	4	0,11
	KKY 2	me	St	Chain carabiner set for Y suspension	3729 0005 100	2	0,03
Mounting-ceiling	DW 235/80	vw	St	Ceiling brackets fix for sportler, worker	3729 0001 100	2	1,00
	DW 235/30°	vw	St	Ceiling brackets variable for sportler	3729 0006 100	2	1,62



Planning a sports hall

Gymnasium

In the case of an inclined roof surface an individual lighting calculation is recommended.

Mounting height MH = 7 m

Calculation basis/legend

E = Nominal illuminance

E_m = Average illuminance (hall)

$E_{m1/3}$ = Average illuminance (1/3 hall)

Utilisation plane = 0,0 m

Reflection values

$\rho = 0,7$ (ceiling)/ $0,5$ (wall)/ $0,3$ (floor)

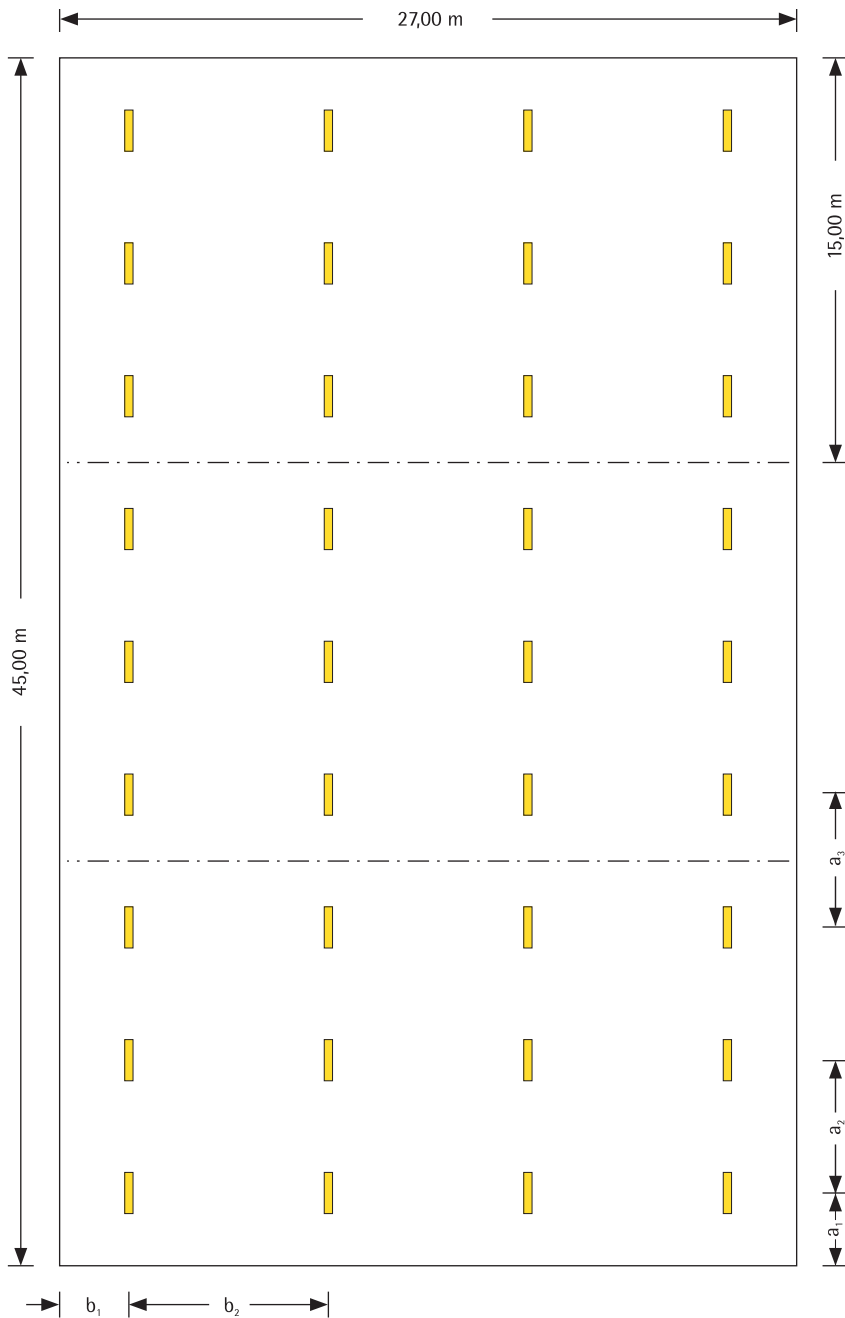
$a_1 / a_2 / a_3$ = Longitudinal spacing

b_1 / b_2 = Transverse spacing

$G_1 = E_{min} : E_m$

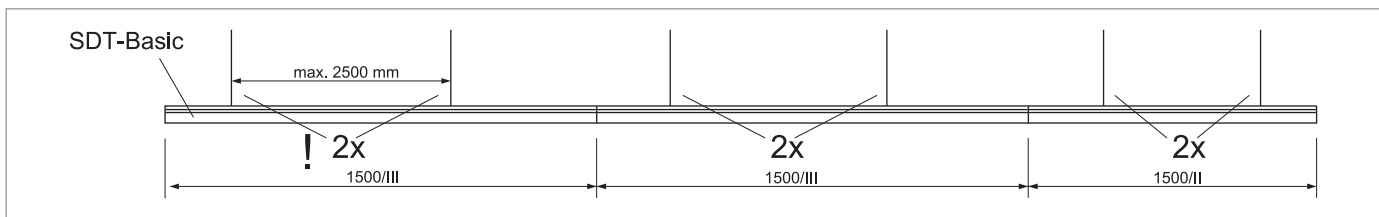
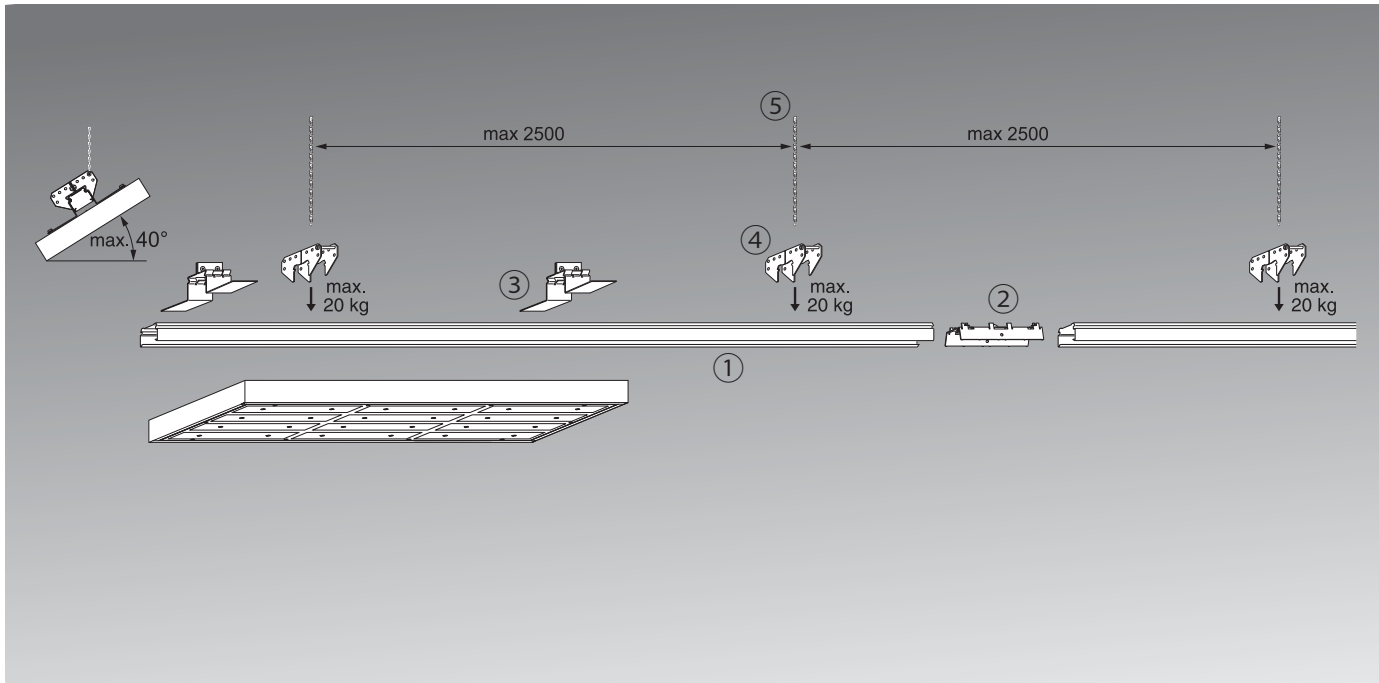
Lamps:

LED LC 840



Type	lamps	E	no. of luminaires	Total power consumption (incl. ED)	a_1	a_2	a_3	b_1	b_2	G_1	E_m	$E_{m1/3}$
SOHB/700	LED 14600	300 lx	4 x 9 = 36	3,525 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	360 lx	320 lx
SOHB/700	LED 14600	500 lx	4 x 12 = 48	4,700 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	500 lx	420 lx
SOHB/1000	LED 21900	300 lx	4 x 6 = 24	3,526 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	360 lx	320 lx
SOHB/1000	LED 21900	500 lx	4 x 9 = 36	5,289 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	540 lx	470 lx
SOHB/1300	LED 29100	300 lx	3 x 6 = 18	3,525 kW	3,75 m	7,50 m	7,50 m	4,50 m	9,00 m	1 : 1,3	370 lx	320 lx
SOHB/1300	LED 29100	500 lx	4 x 6 = 24	4,700 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	500 lx	430 lx
SOHTB/700	LED 14600	300 lx	4 x 9 = 36	3,525 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	380 lx	340 lx
SOHTB/700	LED 14600	500 lx	4 x 12 = 48	4,700 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	500 lx	450 lx
SOHTB/1000	LED 21900	300 lx	4 x 6 = 24	3,526 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	380 lx	350 lx
SOHTB/1000	LED 21900	500 lx	4 x 9 = 36	5,289 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	560 lx	510 lx
SOHTB/1300	LED 29200	300 lx	3 x 6 = 18	3,525 kW	3,75 m	7,50 m	7,50 m	4,50 m	9,00 m	1 : 1,3	390 lx	350 lx
SOHTB/1300	LED 29200	500 lx	4 x 6 = 24	4,700 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	510 lx	460 lx

Accessories mounting rail installation



- ① SDT basic unwired mounting rail
- ② SDTV mounting rail connector
- ③ Luminaire fixing BW-SDT
- ④ Angled bracket SDT-WA
- ⑤ Suspension (chain) KK

Accessories

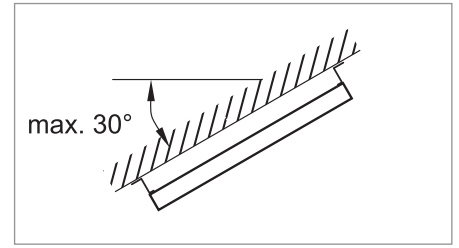
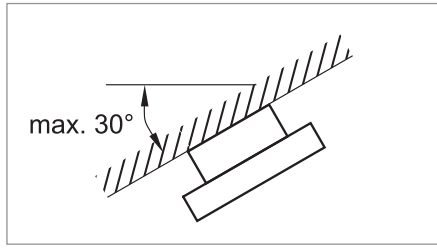
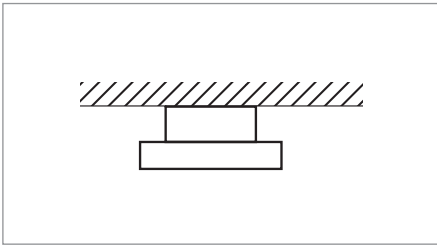
	Type	Colour	Material	Details	Art. no.		
<i>Design</i>							
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1	0,85
<i>Mounting</i>							
Chain suspension	KK	me	St	Node chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	SDT -WA	me	St	Angled bracket for SDT Basic	6820 9300 120	1	0,25
<i>Structure</i>							
Luminaires fixing	BW-SDT	vw	St	SDT mounting set for sportler, worker	3729 0009 100	2	0,88
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1	2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1	3,90
Mounting rail connector	SDTV	me	St.galv.	for SDT	1820 0020 100	1	0,22



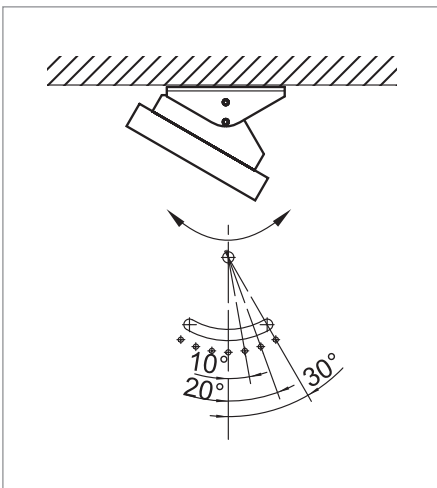
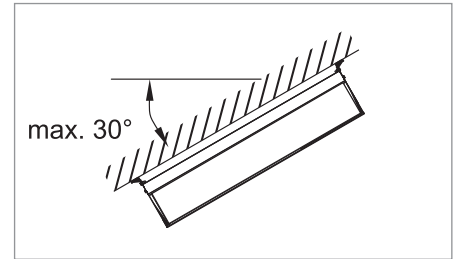
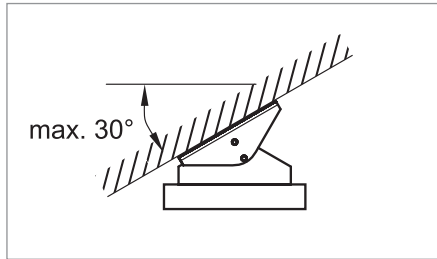
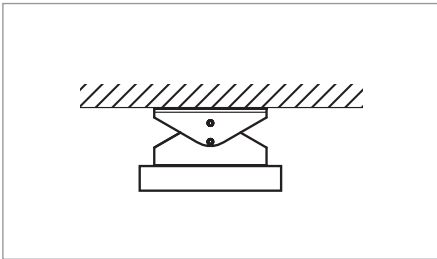
Mounting note sportler

Surface mounting

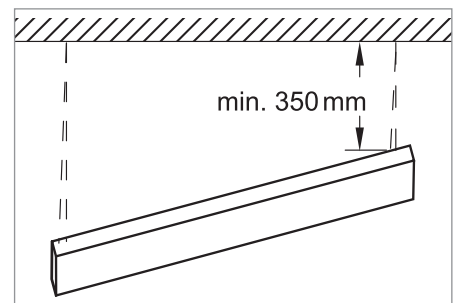
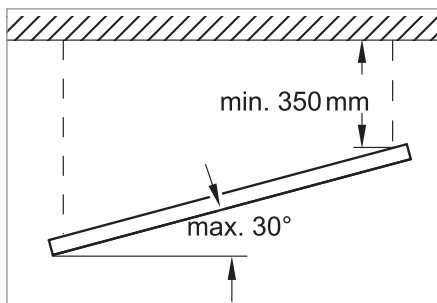
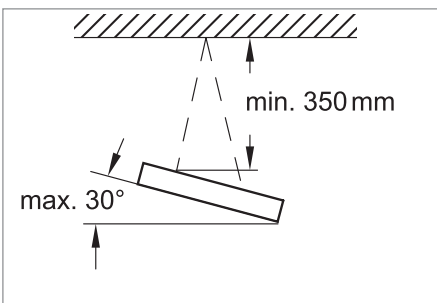
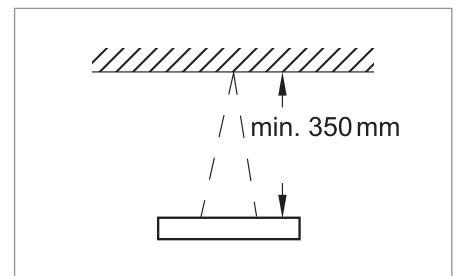
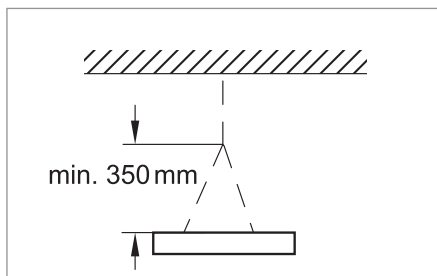
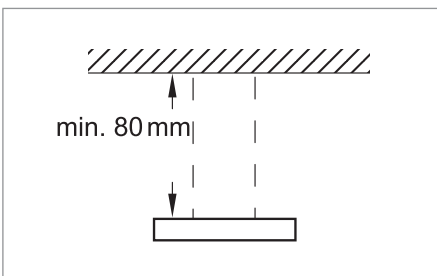
DW 235/80



DW 235/30°



Suspended mounting







THL



THL – the athlete among luminaires

- Tennis-compatible sports hall luminaire for LED configurations
- Triple-lamp versions separately switchable and dimmable (inner/outer)
- Excellent glare control



Type overview

- ▶ THLA Louvre, white direct wide distribution
- ▶ THLE Louvre, white direct wide distribution

THLA LED



Mounting:

- Suspended
- Ceiling surface
- Mounting rail

Housing:

- Sheet steel housing

Lighting technology THLA:

- Louvre, white
- Lighting characteristic direct wide distribution

Lamp:

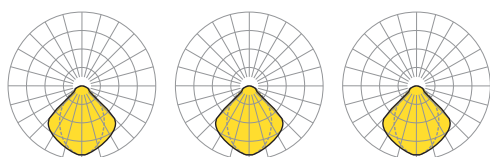
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

Switching:

- Various switching modes available
- The number of control gears varies according to the version
- Electronic driver
- 230V 50Hz

Accessories:

- The required accessories for mounting rail or suspended mounting installation must be ordered separately



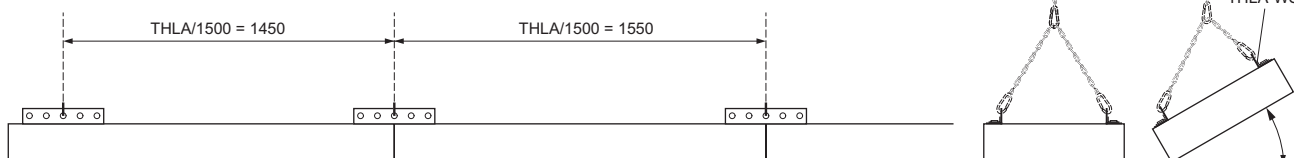
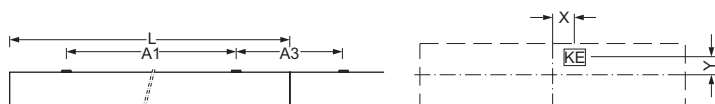
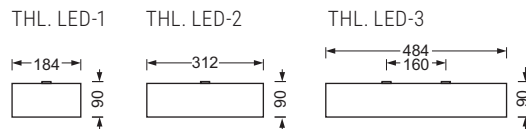
THLA/1500-1 LED	THLA/1500-2 LED	THLA/1500-3 LED
5000 lm 840	10000 lm 840	15100 lm 840
η_{LB} 100% lm/W 121	η_{LB} 100% lm/W 121	η_{LB} 100% lm/W 121
direct/indirect 100/0%	direct/indirect 100/0%	direct/indirect 100/0%
UGR lat./long. 19,3/19,6	UGR lat./long. 19,6/19,9	UGR lat./long. 19,3/19,6

Dimensions

Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
THLA/1500-1	LED	1548 x 184 x 90	1300	248	-	0 / 70
THLA/1500-2	LED	1548 x 312 x 90	1300	248	-	0 / 0
THLA/1500-3	LED	1548 x 484 x 90	1300	248	160	0 / 70



In the case of the upgrade luminaire THLA/1500-3-2 LED the middle luminaire louvre is not fitted with an illuminant. Non-dimmable versions nevertheless retain the advantages of group switching.





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Louvre, white direct wide distribution</i>								
THLA/1500-1	LED 5000 840	121	42	vw	ED	1548 x 184 x 90	6811 0014 100	9,55
					DALI ¹⁾	1548 x 184 x 90	6811 0016 600	9,55
THLA/1500-2	LED 10000 840	121	83	vw	ED	1548 x 312 x 90	6812 0024 100	15,22
					DALI ¹⁾	1548 x 312 x 90	6812 0026 600	15,22
THLA/1500-3	LED 15100 840	121	125	vw	ED	1548 x 484 x 90	6813 0034 100	21,66
					DALI ¹⁾	1548 x 484 x 90	6813 0036 600	19,55
THLA/1500-3-2	LED 10000 840	121	83	vw	ED	1548 x 484 x 90	6813 0024 100	20,26

¹⁾ : Luminaires suitable for IoT (Internet of Things)

Accessories

Type	Colour	Material	Details	Art. no.	kg	
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm ² for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
<i>Mounting</i>						
Chain suspension	Basic Set -KP	me	Mix	Canopy D=123mm for suspended luminaires	9282 0000 100	1 0,15
	KK	me	St	Node chain l=30mm, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	THLA -WS	me	St	Angle section for THLA	6810 9200 100	2 0,70



THLE LED



LED A++ Ⓛ Ⓜ Ⓝ Ⓘ Ⓡ Ⓢ Ⓣ Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ ⓐ ⓑ Ⓒ Ⓔ IP 20

Mounting:

- Ceiling recessed

Housing:

- Sheet steel housing
- Suitable for ceiling system: concealed symmetrical rail construction; cut-out ceilings

Lighting technology THLE:

- Louvre, white
- Lighting characteristic direct wide distribution

Lamp:

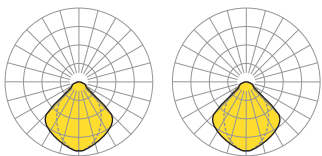
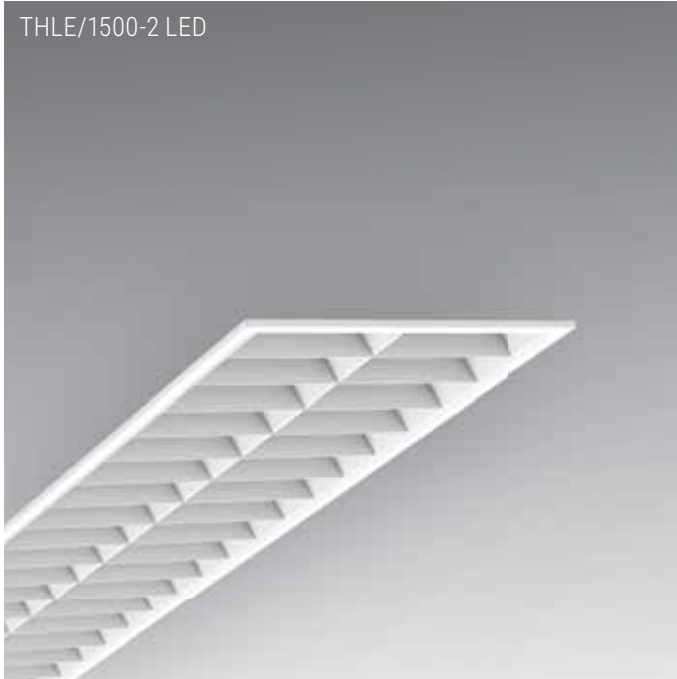
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

Switching:

- Various switching modes available
- The number of control gears varies according to the version
- Electronic driver
- 230V 50Hz

Accessories:

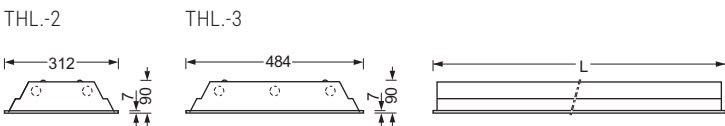
- Mounting bracket BBT for concealed symmetrical rail constructions or cut-out ceiling, order separately.



THLE/1500-2 LED 10000 lm 840		THLE/1500-3 LED 15100 lm 840	
η_{LB}	100%	η_{LB}	100%
lm/W	121	lm/W	121
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	19,6/19,9	UGR lat./long.	19,3/19,6

Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et	DA _L xDA _B	Et
THLE/1500-2	LED	1548 x 312 x 90	83	1550 x 312,5	250	1535 x 300	250
THLE/1500-3	LED	1548 x 484 x 90	83	1550 x 484,5	250	1535 x 470	250







THLE/1500-3 LED



Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Louvre, white direct wide distribution</i>								
THLE/1500-2	LED 10000 840	121	83	vw	ED	1548 x 312 x 90	7812 0024 100	12,27
THLE/1500-3	LED 15100 840	121	125	vw	ED	1548 x 484 x 90	7813 0034 100	19,10

Accessories

Type	Colour	Material	Details	Art. no.		
<i>Mounting</i>						
Fastening bracket	BBT 6	me	St	for THLE/1500-2, 1500-3	7997 0006 100	6 0,05







Planning a sports hall

Gymnasium

In the case of an inclined roof surface an individual lighting calculation is recommended.

Room height $R_H = 7$ m

Calculation basis/legend

E = Nominal illuminance

E_m = Average illuminance (hall)

$E_{m1/3}$ = Average illuminance (1/3 hall)

Utilisation plane = 0,0 m

Reflection values:

$\rho = 0,7$ (ceiling) / 0,5 (wall) / 0,3 (floor)

$a_1 / a_2 / a_3$ = Longitudinal spacing

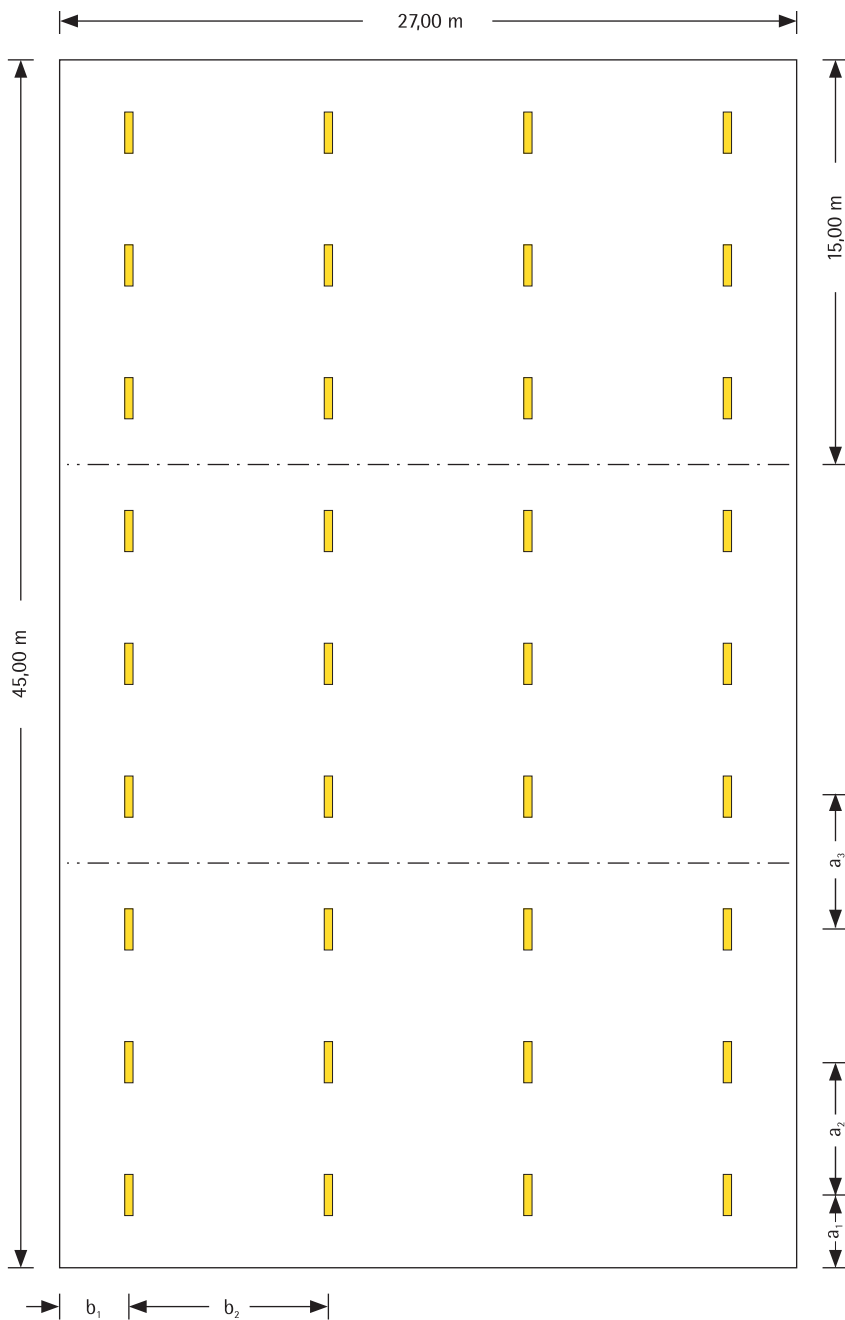
b_1 / b_2 = Transverse spacing

$G_1 = E_{min} : E_m$

Lamps:

LED LC 840

1500/1-LED = 4800 lm net



Type	lamps	E	no. of luminaires	Total power consumption	a_1	a_2	a_3	b_1	b_2	G_1	E_m	$E_{m1/3}$
THLA/1500-1	LED 4900	300 lx	4 x 24= 96	4,032 kW	0,94 m	1,88 m	1,88 m	2,25 m	7,50 m	1 : 1,3	310 lx	270 lx
THLA/THLE/1500-2	LED 9700	500 lx	4 x 21= 84	6,972 kW	1,07 m	2,15 m	2,15 m	2,25 m	7,50 m	1 : 1,3	550 lx	470 lx
THLA/THLE/1500-2	LED 9700	300 lx	4 x 12= 48	3,984 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	310 lx	270 lx
THLA/THLE/1500-3	LED 14600	500 lx	4 x 15= 60	7,500 kW	1,50 m	3,00 m	3,00 m	2,25 m	7,50 m	1 : 1,3	590 lx	510 lx
THLA/THLE/1500-3	LED 14600	300 lx	4 x 9= 36	4,500 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	350 lx	310 lx



Tennis hall

In the case of an inclined roof surface an individual lighting calculation is recommended.

Calculation basis/legend

Average illuminance (playing field)

$E_m = 587 \text{ lx}$

Utilisation plane = 0,0 m

Mounting height = 5 m

Maintenance factor = 0,8

Reflection values:

$\rho = 0,5$ (ceiling)/ $0,3$ (Face walls)/

$0,0$ (Side Walls)/ $0,1$ (floor)

In tennis halls with several courts no reflection surfaces on the lateral playing sides

Lamps:

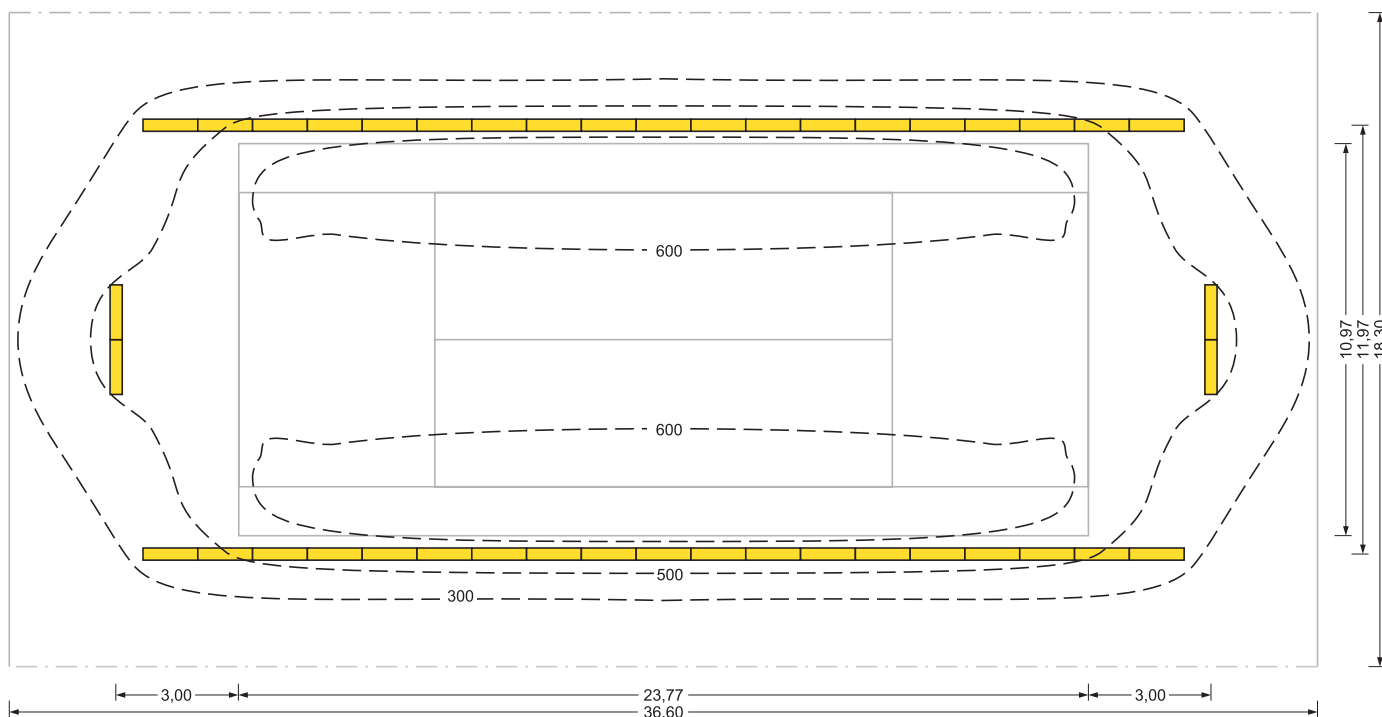
LED LC 840

1500/1-LED = 4800 lm net

Lighting class	I	II	III
Average illuminance (lx)	750	500	300
Uniformity	0,7	0,7	0,5

THLA/1500-2 LED 9700lm

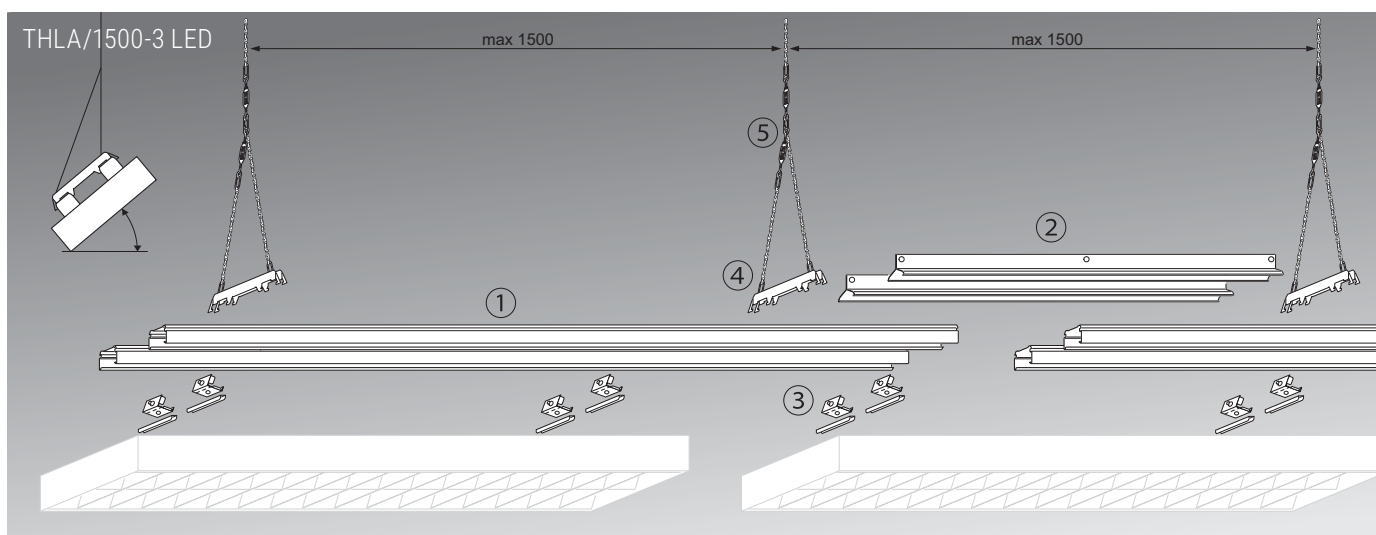
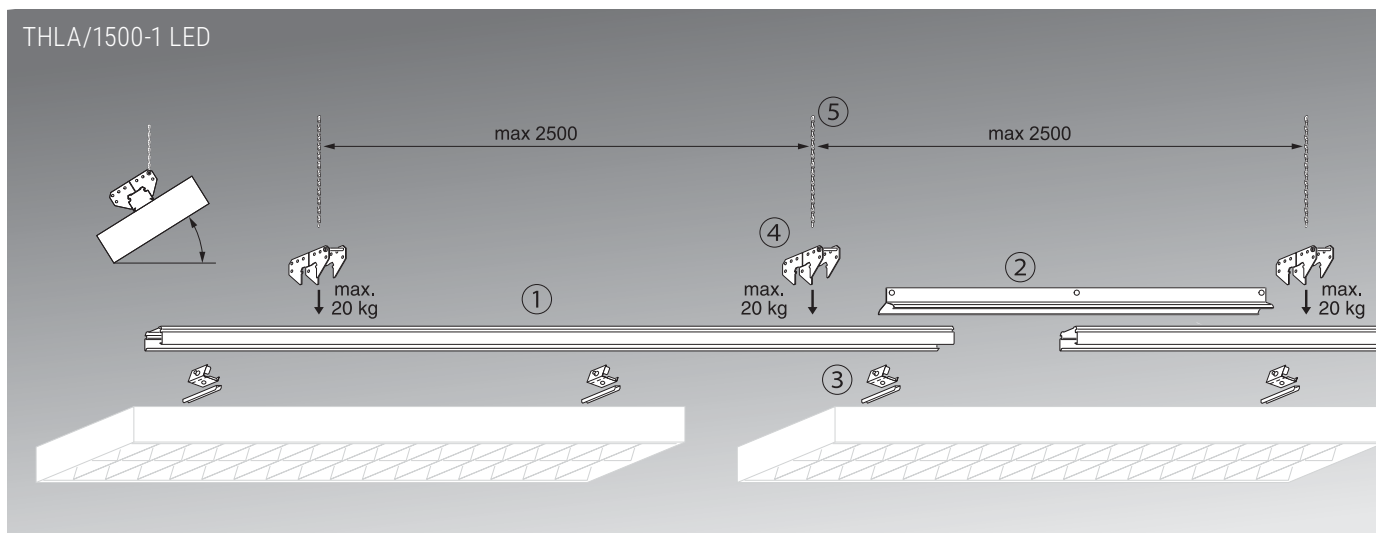
$E_m = 587 \text{ lx}$



Type	lamps	no. of luminaires	E_m	$E_{m2/3}$	$E_{m1/3}$	G
THLA/1500-2	LED 9700	$2 \times 19 + 2 \times 2 = 42$	587 lx			0,85
THLA/1500-3	LED 14900	$2 \times 19 + 2 \times 2 = 42$	881 lx	587 lx	294 lx	0,85



Accessories for mounting rail installation



- ① SDT basic unwired mounting rail
- ② SDT-AP mounting rail connector
- ③ Luminaire hanger SDLAD
- ④ Suspension set SDT -WA or SDTT
- ⑤ Suspension set SDTTK for SDTT respectively chain suspension KK

Accessories

	Type	Colour	Material	Details	Art. no.		
<i>Design</i>							
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1	0,85
<i>Mounting</i>							
Chain suspension	KK	me	St	Node chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	SDT -AP	me	St	Suspension profile, mounting rail connector for SDT; suspension spacing up to 4.5 m	1890 0022 100	1	0,93
	SDT -WA	me	St	Angled bracket for SDT Basic	6820 9300 120	1	0,25
	SDTTK	me	Mix	0°-40° for SDTT	1890 0056 100	1	0,30
<i>Structure</i>							
Luminaires fixing	SDLAD	me	St.galv.	for SDT Basic, KE-Y > 0mm und 2x for THLA+SDTT	1890 0068 100	1	0,07
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1	2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1	3,90
Mounting rail spacer	SDTT T2-120	me	St.galv.	dist.=120mm for THLA 2x...	1890 0057 100	1	0,30
	SDTT T3-160	me	St	dist.=160mm for THLA 3x..., 1500-3	1890 0055 100	1	0,35



Application pictures

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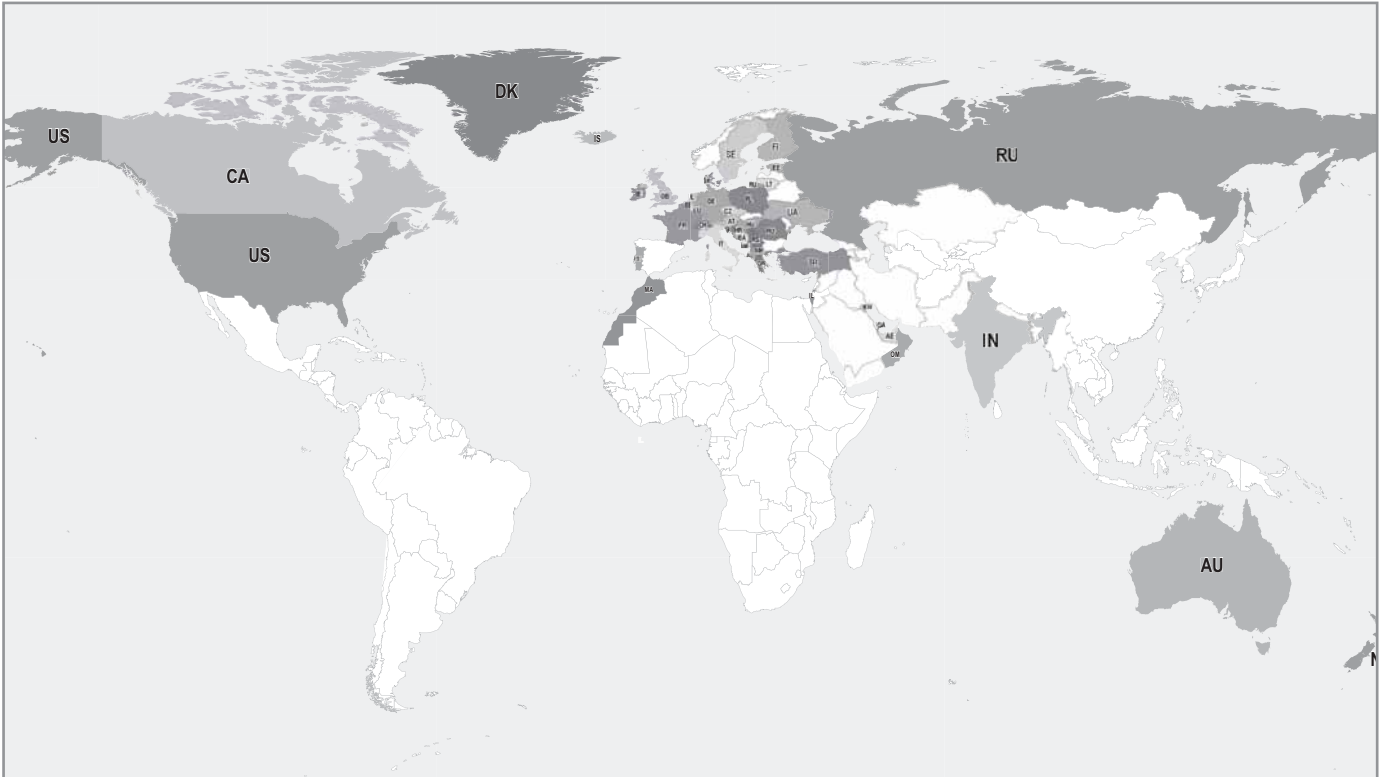
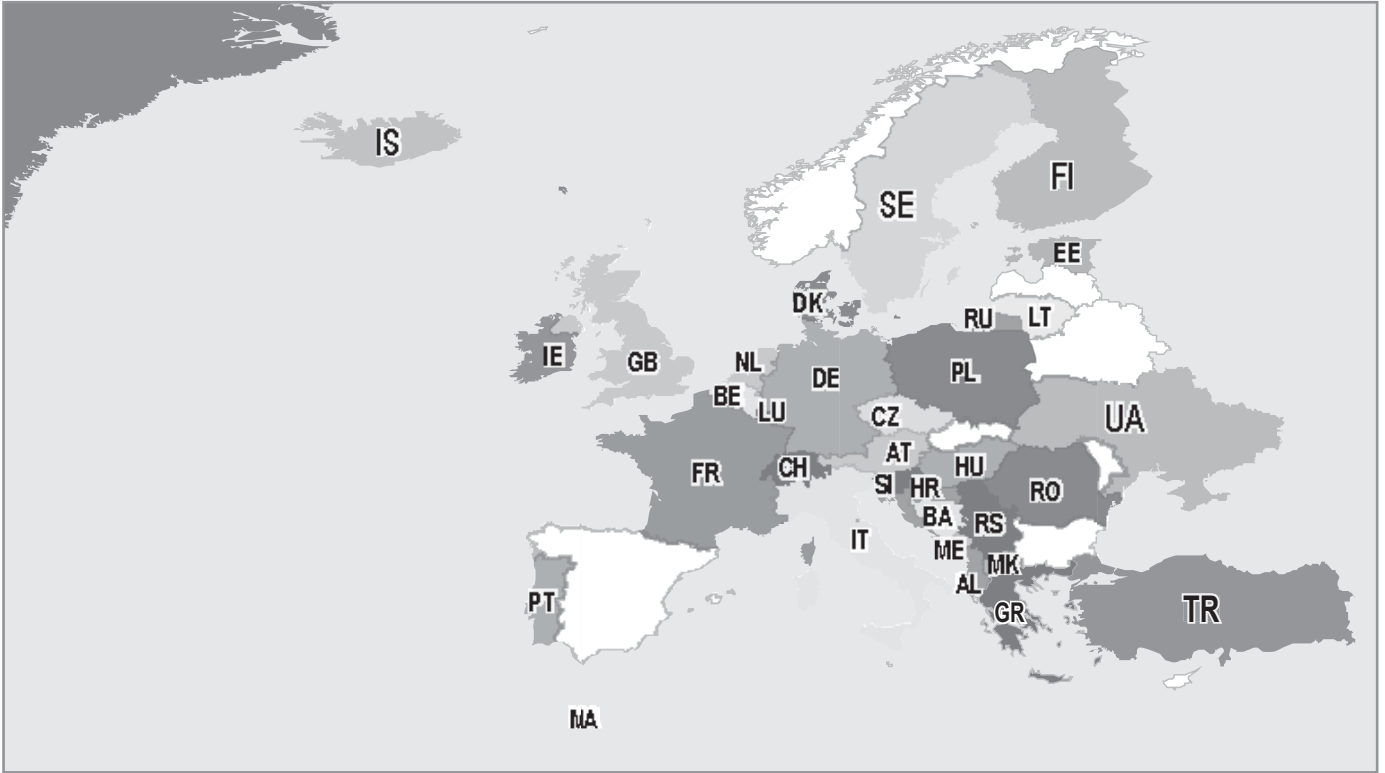
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