

lichtwerk
inspired by light

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Table structure

The tabular structure enables an overview of the essential features.

Type
Designation of the luminaire

LED Specification
Luminous flux lumen (lm)
Colour rendering index RA
Colour temperature Kelvin (K)

NEW

Item-number → the last digit of the article number indicates the housing colour
543 3044 10... → ...1

Luminaire weight net (without packaging)

Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	Colour	Colour	kg
Sample luminaire	LED 2400lm 840 LB	20	ED	543 3044 10...	■ ...5	□ ...1	■ ...4	3
	LED 4500lm 840 LB	41	DALI	543 3144 10...	■ ...5	□ ...1	■ ...4	3

P_{sys} | Lighting system performance

Driver

- ED | Electronic Driver, non dimmable
- DALI | Electronic Driver, DALI, dimmable
- DALI DT8 | Electronic Driver, DALI, dimmable, adjustable light colour
- Tast dim | dimmable via push button
- NL-B | Emergency light battery powered

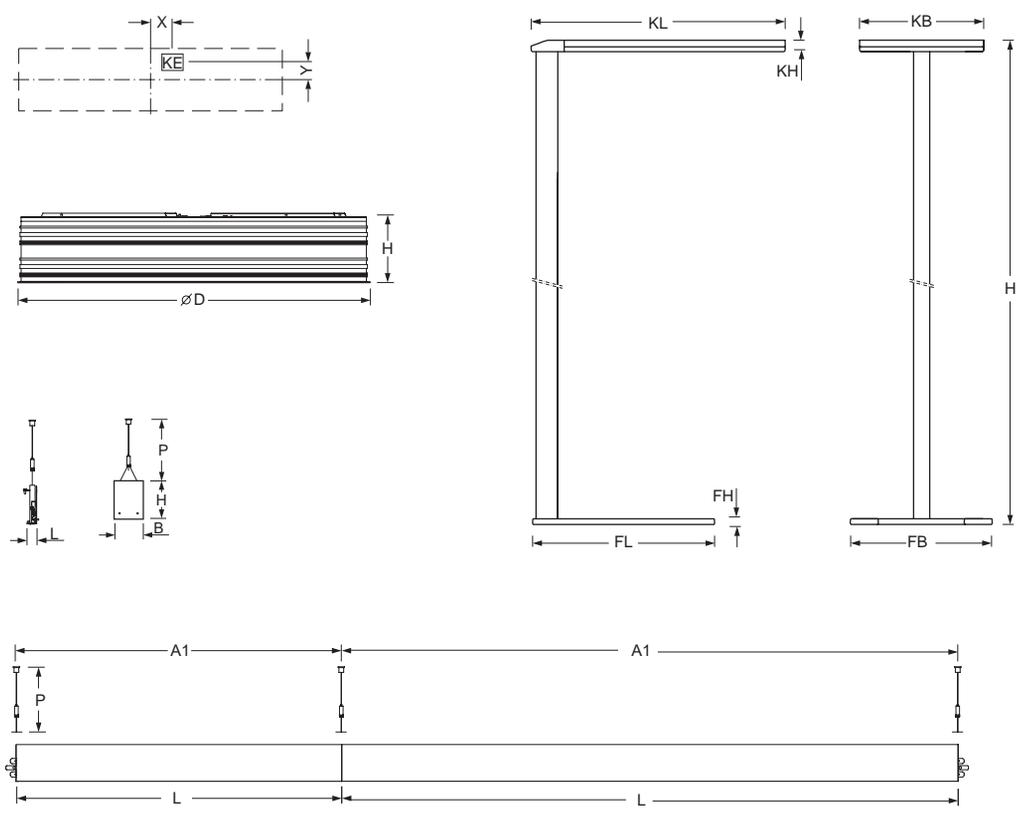
Colour code/colour

- | aluminium natural anodized
- | traffic white (similar RAL 9016)
- wa | withe-aluminium (similar RAL 9006)
- | deep black (similar RAL 9005)
- sg | silver grey
- | stainless steel
- cr | chrome
- si | silver
- tc | translucent
- cl | clear
- gr | grit grey



▶ Please refer to the current data for LED luminaires at www.lichtwerk.de

INDEX



Definition of measurement table variants

- L | Length
- L | Length/Width for square luminaires
- L2 | Additional length
- B | Width
- H | Height
- ∅D | Diameter
- FL | Length of luminaire base
- FB | Width of luminaire base
- FD | Diameter of luminaire base
- T | Depth
- KE | Cable infeed
- KL | Length of luminaire head or ballast box
- KB | Width of luminaire head or ballast box
- KH | Height of luminaire head or ballast box
- KD | Diameter of luminaire head or ballast box
- A1 | Fixing distance in case of single mounting
- A2 | Fixing distance between the luminaires in case of light run mounting
- X | Distance from centre of the luminaire to the electrical feed in (x direction = length)
- Y | Distance from centre of the luminaire to the electrical feed in (y direction = width)
- SL | Length of cut for recessed luminaires
- SB | Width of cut for recessed luminaires
- SD | Diameter of cut for recessed luminaires
- e | Minimum necessary depth for luminaire mounting
- ML | Modul (axis) Length
- MB | Modul (axis) Width
- P | Wire suspension
- P min/max | Min./Max. length wire suspension
- DS min/max | Min./Max. ceiling thickness in case of suspended ceiling
-  | for ceilings with visible T-rails
-  | for cut-out ceilings

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• Glass luminaires



Glass luminaires



syrma-W

P. 420



syrma-HB

P. 424



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corona-A P. 428



puck-A P. 436



dyski-A P. 444



corona-H P. 432



puck-H P. 440



dyski-H P. 448



• syrma-W

IP20 ⊕ ⚡ ⚡ Ⓢ ⒸⒺ

Wall luminaire

made of mouth-blown, triple-layer frosted opal glass.

Open glass with minimal wall fixing.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

Also available as frosted acrylic glass version upon request.

Miscellaneous

Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².

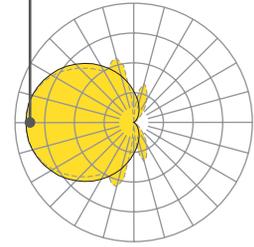


Type	L	B	H
syrma-W/300	300	150	75
syrma-W/500	500	150	75



syrma-W/300
1300lm 840

η_{LB}	100 %
Direct	82 %
Indirect	18 %
UGR lat.	21,6
UGR long.	23,2



Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
syrma-W/300	LED 1300lm 840	14	ED	592 3844 100	<input type="checkbox"/>	1,9
	LED 1300lm 840	14	DALI	592 3846 600	<input type="checkbox"/>	1,9
syrma-W/500	LED 2600lm 840	28	ED	592 5844 100	<input type="checkbox"/>	2,4
	LED 2600lm 840	28	DALI	592 5846 600	<input type="checkbox"/>	2,4

► Please refer to the current data for LED luminaires at www.lichtwerk.de









• syrma-HB

IP20    

Pendant luminaire

made of mouth-blown, triple-layer frosted opal glass.
Rated life time = L80 B10 50.000h.
Light colour: 4000K. Optional: 3000K.
Also available as frosted acrylic glass version upon request.

Suspension

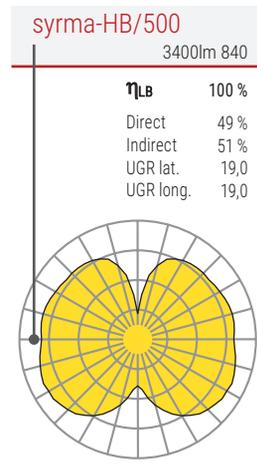
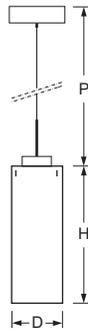
Self-supporting white cable. Ceiling canopy painted white.

Miscellaneous

Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².



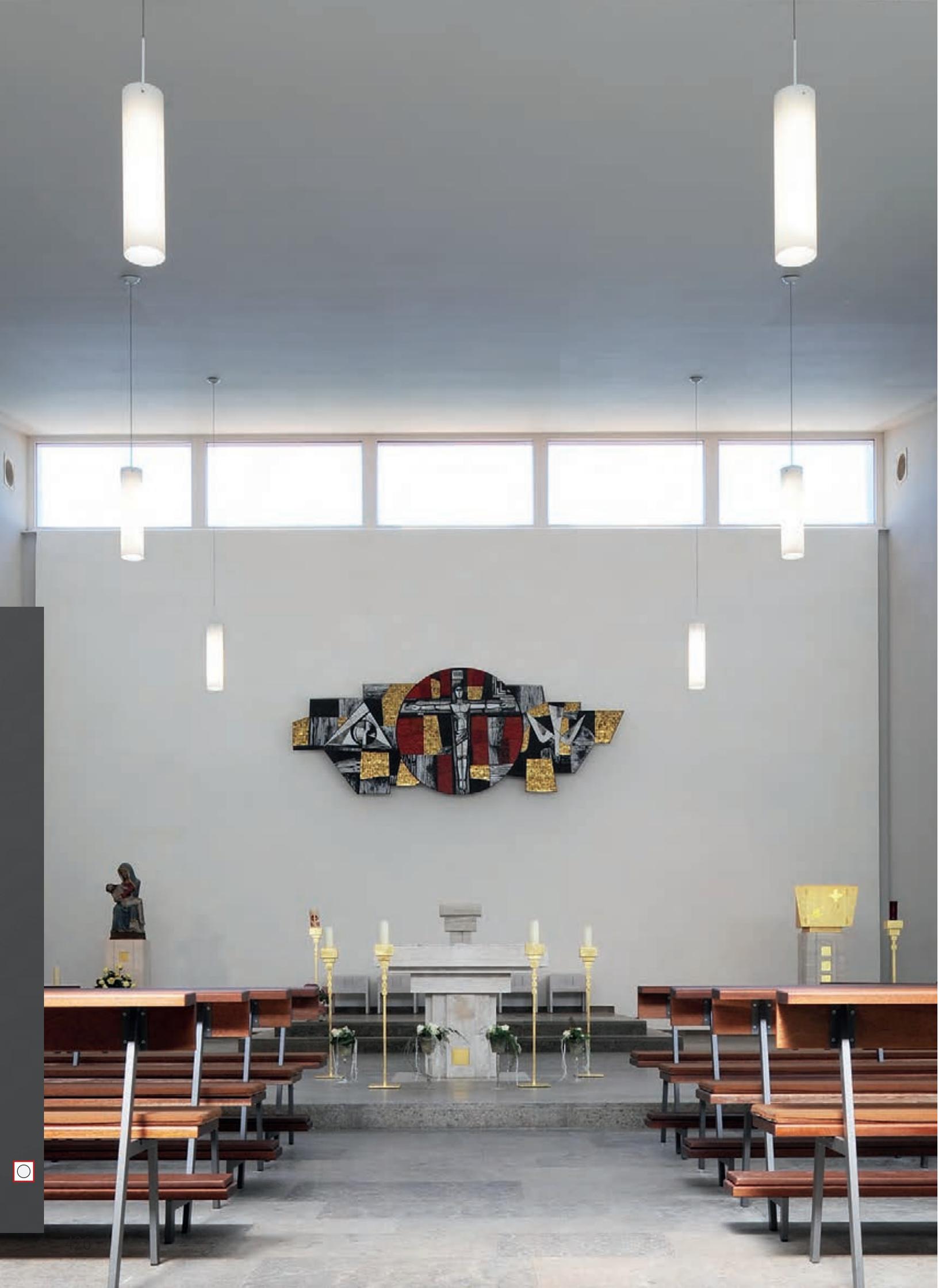
Type	H	D	P
syrma-HB/320	320	150	2000
syrma-HB/500	500	150	2000
syrma-HB/620	620	150	2000
syrma-HB/800	800	220	2000

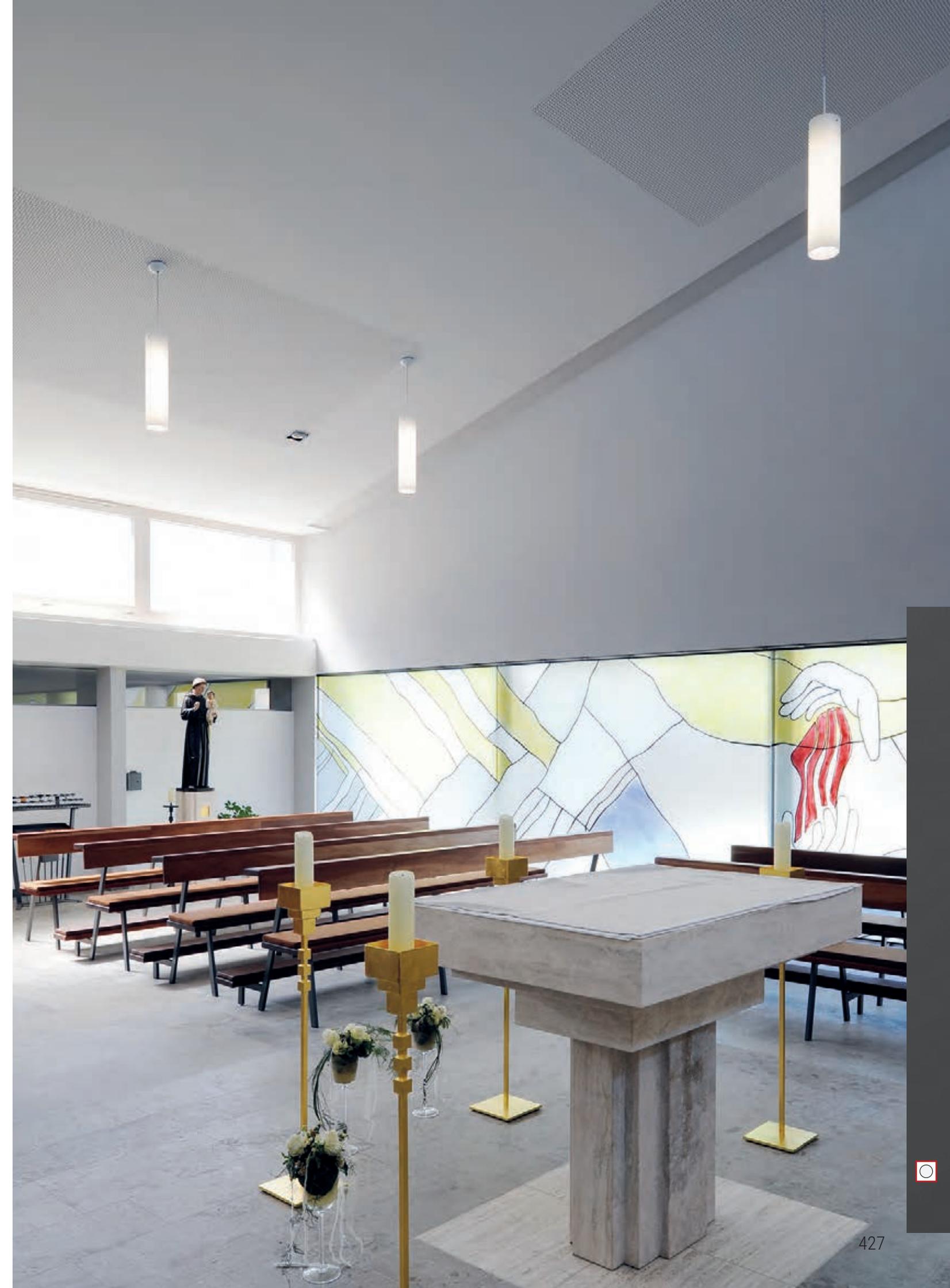


Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
syrma-HB/320	LED 1600lm 840	11	ED	589 3844 100	<input type="checkbox"/>	2,8
	LED 1600lm 840	11	DALI	589 3846 600	<input type="checkbox"/>	2,8
syrma-HB/500	LED 3400lm 840	22	ED	589 5844 100	<input type="checkbox"/>	3,8
	LED 3400lm 840	22	DALI	589 5846 600	<input type="checkbox"/>	3,8
syrma-HB/620	LED 5000lm 840	34	ED	589 6844 100	<input type="checkbox"/>	6,1
	LED 5000lm 840	34	DALI	589 6846 600	<input type="checkbox"/>	6,1
syrma-HB/800	LED 11500lm 840	96	ED	589 8844 100	<input type="checkbox"/>	8,3
	LED 11500lm 840	96	DALI	589 8846 600	<input type="checkbox"/>	8,3

► Please refer to the current data for LED luminaires at www.lichtwerk.de









corona-A

IP20    

Surface mounted luminaire

made of mouth-blown, triple-layer frosted opal glass.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

Also available as plastic PE version upon request.

Suitable for ceiling- or for wall-mounting.

Miscellaneous

Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².

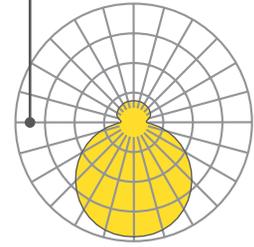


Type	H	H2	D
corona-A/415	80	20	415
corona-A/500	90	20	500
corona-A/600	100	20	600



corona-A/500
4500lm 840

η_{LB}	100 %
Direct	77 %
Indirect	23 %
UGR lat.	20,4
UGR long.	20,4



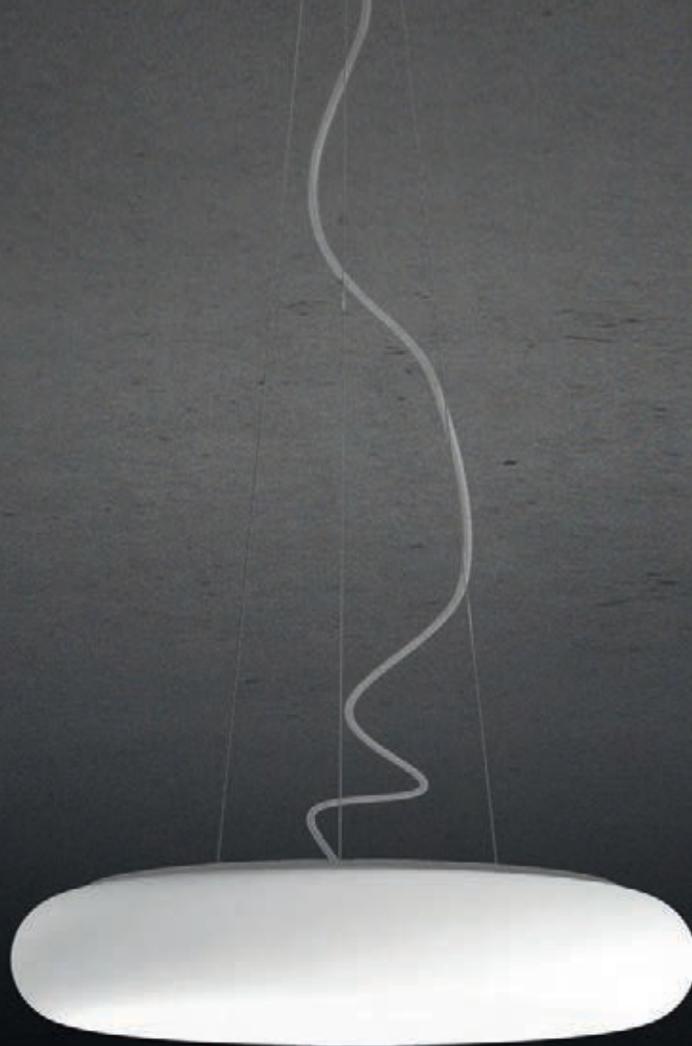
Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
corona-A/415	LED 3600lm 840	34	ED	559 4844 100	<input type="checkbox"/>	4,9
	LED 3600lm 840	34	DALI	559 4846 600	<input type="checkbox"/>	4,9
corona-A/500	LED 4500lm 840	39	ED	559 5844 100	<input type="checkbox"/>	7,0
	LED 4500lm 840	39	DALI	559 5846 600	<input type="checkbox"/>	7,0
corona-A/600	LED 5100lm 840	44	ED	559 6844 100	<input type="checkbox"/>	8,2
	LED 5100lm 840	44	DALI	559 6846 600	<input type="checkbox"/>	8,2

► Please refer to the current data for LED luminaires at www.lichtwerk.de









corona-H

IP20    

Pendant luminaire

made of mouth-blown, triple-layer frosted opal glass.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

Also available as plastic PE version upon request.

Suspension

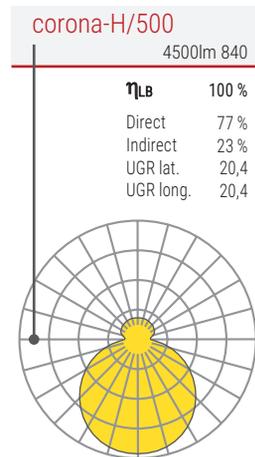
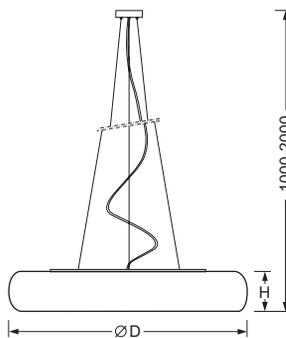
Ceiling canopy structure-coated metallic grey.

Steel wire suspension with rapid coupling, free height adjustment from 1000 to 2000mm.

Miscellaneous

Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².

Type	H	D	Pmin/Pmax
corona-H/415	80	415	1000-2000
corona-H/500	80	500	1000-2000
corona-H/600	100	600	1000-2000



Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
corona-H/415	LED 3600lm 840	34	ED	558 4844 100	<input type="checkbox"/>	5,1
	LED 3600lm 840	34	DALI	558 4846 600	<input type="checkbox"/>	5,1
corona-H/500	LED 4500lm 840	39	ED	558 5844 100	<input type="checkbox"/>	7,3
	LED 4500lm 840	39	DALI	558 5846 600	<input type="checkbox"/>	7,3
corona-H/600	LED 5100lm 840	44	ED	558 6844 100	<input type="checkbox"/>	9,8
	LED 5100lm 840	44	DALI	558 6846 600	<input type="checkbox"/>	9,8

► Please refer to the current data for LED luminaires at www.lichtwerk.de









• puck-A

IP20 ⊕ ∇ ⚡ CE

Surface mounted luminaire

made of mouth-blown, triple-layer frosted opal glass.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

Suitable for ceiling- or for wall-mounting.

Miscellaneous

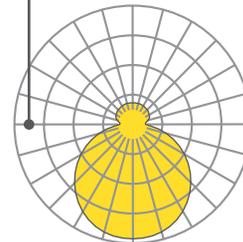
Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².



Type	H	H2	D
puck-A/415	80	20	415
puck-A/500	90	20	500
puck-A/600	100	20	600



puck-A/500	
4600lm 840	
η_{LB}	100 %
Direct	77 %
Indirect	23 %
UGR lat.	20,3
UGR long.	20,3



Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
puck-A/415	LED 3600lm 840	34	ED	552 4844 100	<input type="checkbox"/>	5,1
	LED 3600lm 840	34	DALI	552 4846 600	<input type="checkbox"/>	5,1
puck-A/500	LED 4600lm 840	40	ED	552 5844 100	<input type="checkbox"/>	7,8
	LED 4600lm 840	40	DALI	552 5846 600	<input type="checkbox"/>	7,8
puck-A/600	LED 5200lm 840	44	ED	552 6844 100	<input type="checkbox"/>	9,7
	LED 5200lm 840	44	DALI	552 6846 600	<input type="checkbox"/>	9,7

► Please refer to the current data for LED luminaires at www.lichtwerk.de







puck-H

IP20    

Pendant luminaire

made of mouth-blown, triple-layer frosted opal glass.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

Suspension

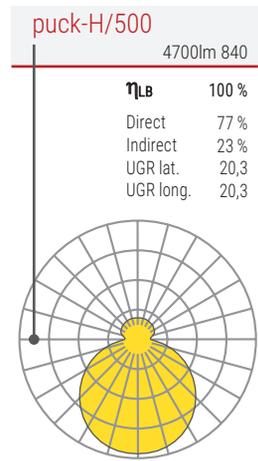
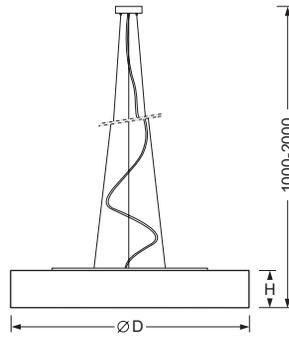
Ceiling canopy structure-coated metallic grey.

Steel wire suspension with rapid coupling, free height adjustment from 1000 to 2000mm.

Miscellaneous

Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².

Type	H	D	Pmin/Pmax
puck-H/415	80	415	1000-2000
puck-H/500	90	500	1000-2000
puck-H/600	100	600	1000-2000



Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
puck-H/415	LED 3600lm 840	34	ED	553 4844 100	<input type="checkbox"/>	5,3
	LED 3600lm 840	34	DALI	553 4846 600	<input type="checkbox"/>	5,3
puck-H/500	LED 4700lm 840	40	ED	553 5844 100	<input type="checkbox"/>	8,2
	LED 4700lm 840	40	DALI	553 5846 600	<input type="checkbox"/>	8,2
puck-H/600	LED 5200lm 840	44	ED	553 6844 100	<input type="checkbox"/>	10,8
	LED 5200lm 840	44	DALI	553 6846 600	<input type="checkbox"/>	10,8

► Please refer to the current data for LED luminaires at www.lichtwerk.de







dyski-A

IP20    

Surface mounted luminaire

made of mouth-blown, triple-layer frosted opal glass.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

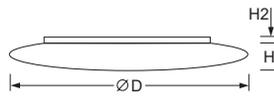
Suitable for ceiling- or for wall-mounting.

Miscellaneous

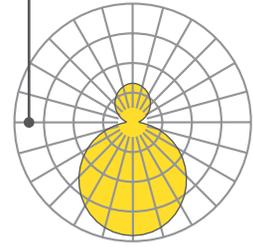
Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².



Type	H	H2	D
dyski-A/550	76	20	550



dyski-A/550	
3100lm 840	
η_{LB}	100 %
Direct	74 %
Indirect	26 %
UGR lat.	17,6
UGR long.	17,6

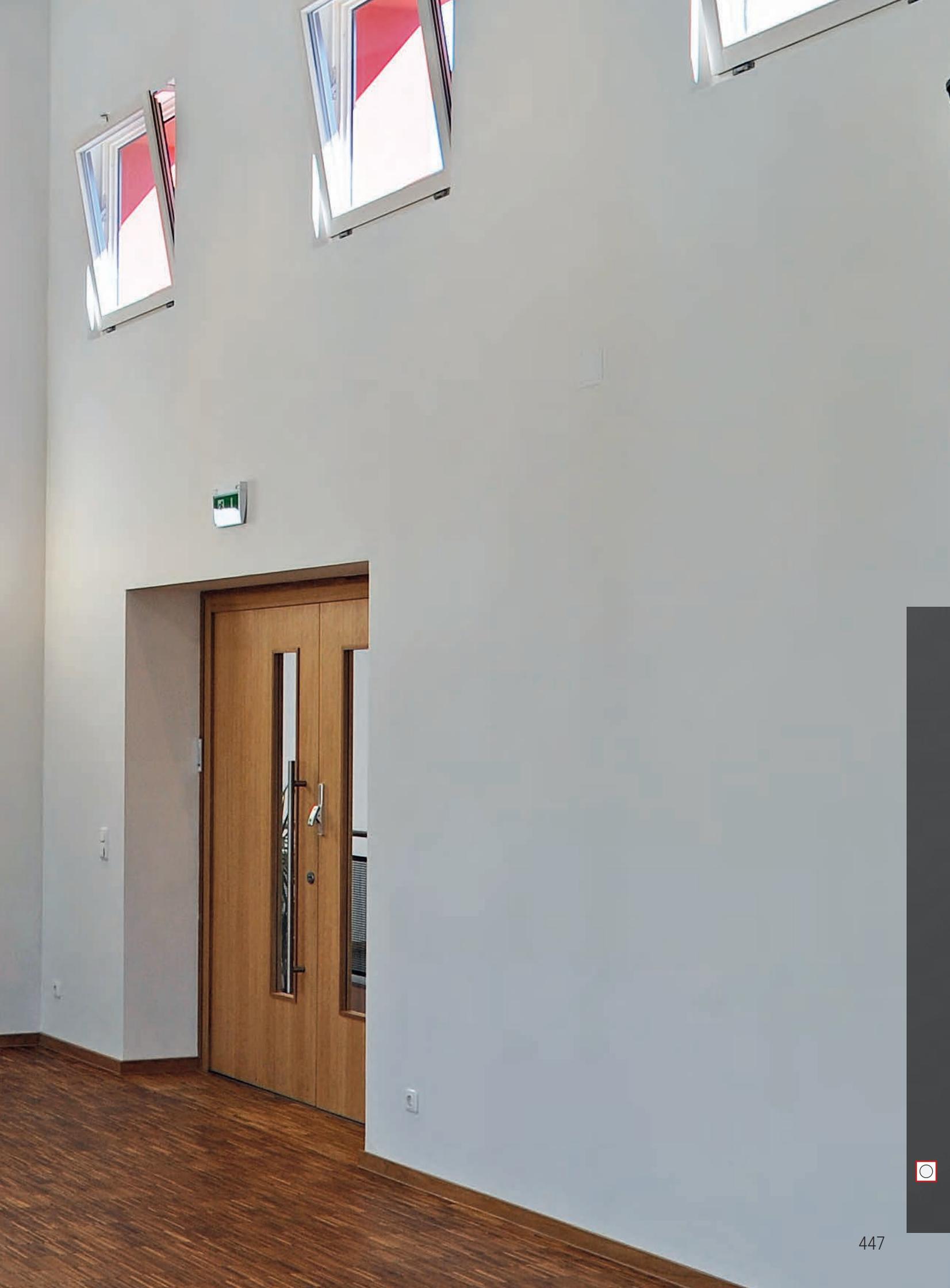


Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
dyski-A/550	LED 3100lm 840	34	ED	565 5844 100	<input type="checkbox"/>	6,0
	LED 3100lm 840	34	DALI	565 5846 600	<input type="checkbox"/>	6,0

► Please refer to the current data for LED luminaires at www.lichtwerk.de









dyski-H

IP20    

Pendant luminaire

made of mouth-blown, triple-layer frosted opal glass.

Rated life time = L80 B10 50.000h.

Light colour: 4000K. Optional: 3000K.

Suspension

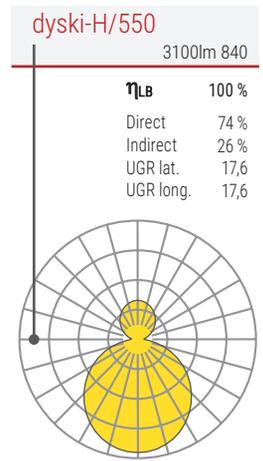
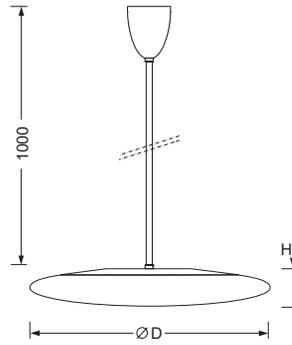
Steel tube painted white. Ceiling canopy painted white.

Also available as chromed version upon request.

Miscellaneous

Electrical connection via three-pole or for dimmable luminaires, five-pole feed-in and connection terminal with plug-in technology, with integrated protective earth connection and unlocking button, suitable for rigid and flexible cables up to 2,5mm².

Type	H	D	P
dyski-H/550	86	550	1000



Type	LED Specification	P _{sys} (W)	Driver	Item-number	Colour	
dyski-H/550	LED 3100lm 840	34	ED	566 5844 100	<input type="checkbox"/>	6,6
	LED 3100lm 840	34	DALI	566 5846 600	<input type="checkbox"/>	6,6

► Please refer to the current data for LED luminaires at www.lichtwerk.de



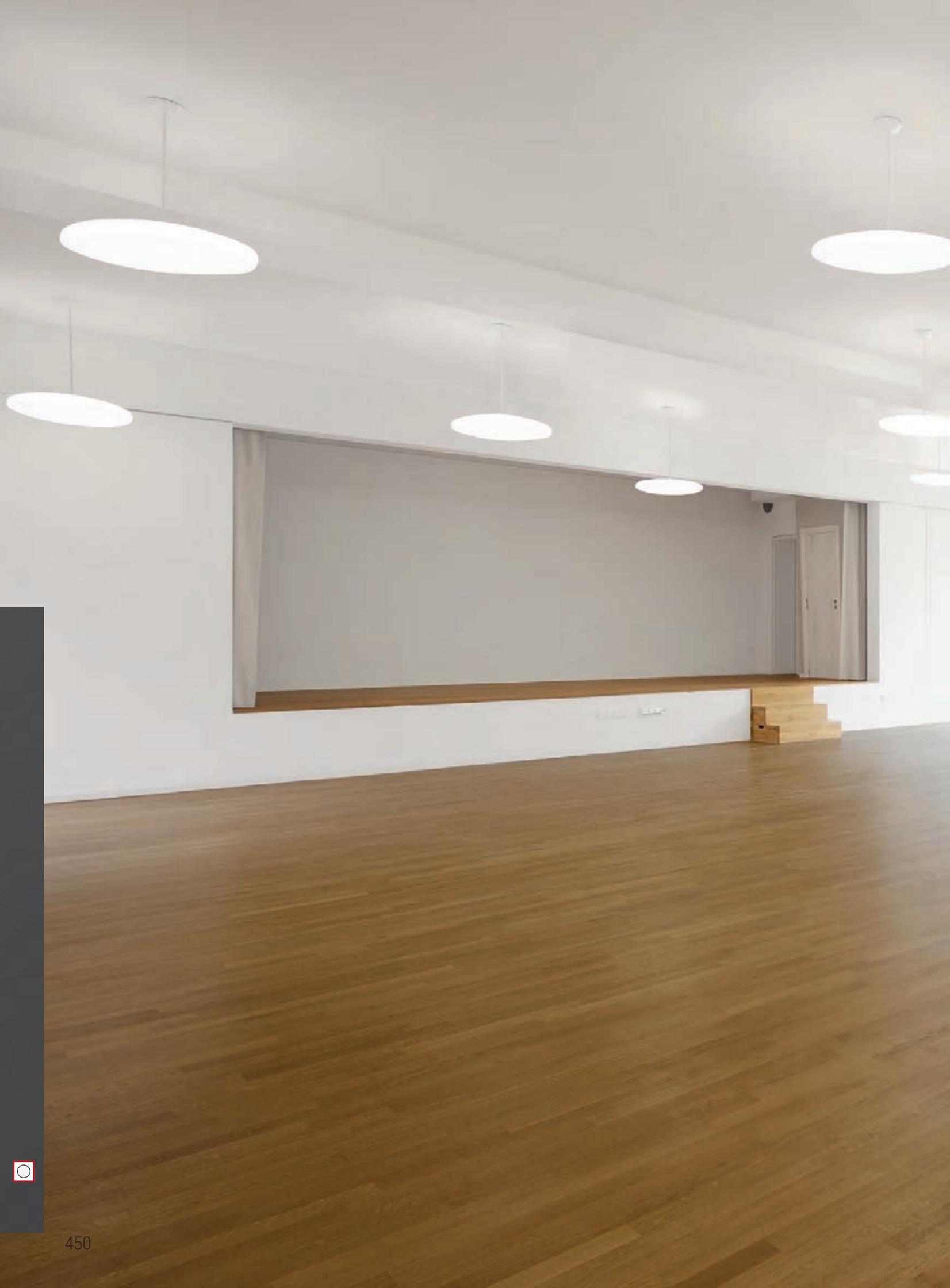




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278 - 279	lichtwerk GmbH; Königsberg DE	Göhring Innenarchitektur; Lichtenfels DE
284 - 285	lichtwerk GmbH; Königsberg DE	BAUR Versand GmbH; Weismain DE
286 - 287	lichtwerk GmbH; Königsberg DE	Musikakademie, Hammelburg DE
310 - 311	lichtwerk GmbH; Königsberg DE	AWT; Werneck DE
314 - 315	lichtwerk GmbH; Königsberg DE	Musikakademie, Hammelburg DE
326 - 327	lichtwerk GmbH; Königsberg DE	Die Energie, Veitshöchheim DE
328 - 329	lichtwerk GmbH; Königsberg DE	Musikakademie, Hammelburg DE
340 - 341	lichtwerk GmbH; Königsberg DE	Arztpraxis Dr. Schorb; Haßfurt DE
342 - 343	lichtwerk GmbH; Königsberg DE	Göhring Innenarchitektur; Lichtenfels DE
354 - 355	lichtwerk GmbH; Königsberg DE	SRAM; Schweinfurt DE
356 - 357	Inga Paas; Köln DE	Gemeindezentrum DIE ARCHE; Wüstenrot DE
364 - 365	Boris Golz; Arnsberg DE	IGS - Integrierte Gesamtschule; Nienburg DE
368 - 369	Jana Wenderoth; Kassel DE	Hürner Funken GmbH; Mücke DE
372 - 373	lichtwerk GmbH; Königsberg DE	Optik Demmler; Bamberg DE
376 - 377	Jörg Wenderoth; Baunatal DE	Vom Fass; Kassel DE
380 - 381	Jana Wenderoth; Kassel DE	Firmenzentrale medDV; Fernwald DE
384 - 385	lichtwerk GmbH; Königsberg DE	Zahnarztpraxis Dr. Wenzel; Ringheim DE
390 - 391	lichtwerk GmbH; Königsberg DE	AWT; Werneck DE
394 - 395	lichtwerk GmbH; Königsberg DE	Regiolux GmbH; Königsberg DE
398 - 399	lichtwerk GmbH; Königsberg DE	Rendering
400 - 401	Tom Reindel; Düsseldorf DE	Medienhafen; Düsseldorf DE
406 - 407	Tom Reindel; Düsseldorf DE	Medienhafen; Düsseldorf DE
410 - 411	Inga Paas; Köln DE	Wiehler Wasserwelt; Wiehl DE
414 - 415	Inga Paas; Köln DE	Wiehler Wasserwelt; Wiehl DE
416 - 417	Danny Gohlke; Rostock DE	DJH Prora; Rügen DE
422 - 423	Frank Freihofer; Kitzingen DE	Pfarrzentrum; Limbach DE
426 - 427	Frank Freihofer; Kitzingen DE	Pfarrzentrum; Limbach DE
430 - 431	S. Meyer Architekturfotografie; Berlin DE	Gemeindezentrum; Stammheim DE
434 - 435	lichtwerk GmbH; Königsberg DE	Straßenmeisterei; Forchheim DE
438 - 439	lichtwerk GmbH; Königsberg DE	Straßenmeisterei; Forchheim DE
442 - 443	S. Meyer Architekturfotografie; Berlin DE	Gemeindezentrum; Stammheim DE
446 - 447	Frank Freihofer; Kitzingen DE	Pfarrzentrum; Limbach DE
450 - 451	S. Meyer Architekturfotografie; Berlin DE	Gemeindezentrum; Stammheim DE
454 - 455	lichtwerk GmbH; Königsberg DE	Rathaus; Knetzgau DE
468 - 469	lichtwerk GmbH; Königsberg DE	Maria Ward Schule; Bamberg DE



GTC - Sales and delivery conditions

1. General

1.1 These conditions of sale apply exclusively to companies, legal persons under public law or public-law special assets in the sense of § 310 paragraph 1 BGB (German Civil Code). The following conditions of sale apply exclusively for all offers and contracts regarding the delivery of goods by lichtwerk GmbH. They also apply for all future transactions with the Orderer when dealing with legal transactions of the related kind. The Orderer recognises the conditions as binding for him for all of the business relations. Modifications and amendments must be in written form. Conflicting or deviating terms and conditions of the Orderer are not terms of the contract, even if we do not expressly object to them. This will only be content of the respective contract in cases where we expressly approve the conflicting or deviating terms and conditions in writing.

1.2 We reserve our own rights of ownership, copyright and other intellectual property rights for all cost estimates, drawings and documents that are handed over to the Orderer during the contract negotiations. They may only be disclosed to third parties with our prior written permission. If an order is not issued, all transferred documents shall be returned immediately at our request. The Orderer does not have the right to use, retain or disseminate these documents.

2. Conclusion of the contract and scope of services

2.1 Our offers are not-binding and without obligation. In terms of the nature and scope of delivery, they will first be binding upon our written order confirmation. If an order is to be regarded as an offer according to § 145 BGB, we can accept this within two weeks by sending an order confirmation.

2.2 Verbal agreements, in particular supplementary agreements and commitments made by our employees, require our written confirmation to be effective.

2.3 For the delivery, we reserve the right to deviations of goods compared to the documents belonging to the offers, such as catalogues, illustrations, descriptions, drawings as well as weight and dimension information, provided they are commercial and reasonable for the Orderer and in particular do not impair quality and function.

3. Prices, deliveries and terms of payment

3.1 Prices and delivery

3.1.1 The prices are calculated in Euro exclusive of the legal VAT, which is invoiced separately according to the valid rate. The prices are calculated according to the prices valid at date of contract conclusion; if the delivery is made more than 4 months after contract conclusion, the prices valid at date of delivery can be invoiced.

3.1.2 Principally, prices shall be ex works excluding VAT, packaging, freight costs and insurance.

3.1.3 For a net order value of €1,500.00 or more, we deliver to the delivery location free of charge within Germany, whereby we provide the goods at the delivery location ready for unloading. Starting at € 750.00, we charge half of the transportation charges for a delivery location within Germany. For a net order value below € 250.00, we charge an additional small-volume surcharge of €25.00.

3.2 Terms of payment

3.2.1 Our invoices are to be paid within 30 days from the date of the invoice. For payment within eight days from the invoice date, we grant a 2 % discount. A payment is considered effected if we are able to access the funds. In the case of payment by cheque, payment is only considered effected when the cheque is redeemed by us.

3.2.2 The acceptance of cheques shall only be accepted on account of performance.

3.2.3 The Orderer's right of retention, as far as it is not based on the same contractual relationship, and the offsetting with contested and not legally determined claims is excluded.

3.2.4 If the Orderer is in default of payment as a whole or a part, he is bound - notwithstanding all other rights of the supplier - to pay from that point of time on default interests to the amount of 8 % annually above the base lending rate.

3.2.5 If the Orderer ceases payments or if bankruptcy is filed or mature checks or bills of exchange are not redeemed, all claims made by the supplier are immediately due.

4. Delivery times and acceptance obligations

4.1 The delivery period begins with the date of written agreement about the order between Orderer and supplier.

4.2 Hindrances beyond our responsibility, in particular acts of God, war, insurrection, strikes, transport disruptions, business disruptions, lack of material, official orders and other inevitable events that delay the delivery in whole or in part automatically lengthen the delivery period by the duration of such conditions. In such cases the parties have the right to withdraw from the contract in whole or in part.

4.3 In the event of a delayed delivery for which we are responsible, the Orderer can only assert his rights arising from the delay if the grace period he granted us has passed without result. If the Orderer proves in this case that he has incurred damages caused by the delay, he can claim a delay compensation for each completed week of the delay in the amount of 0.5% for the entire duration of the delay, but not to exceed 5% of the value of the goods not delivered on time. The right of the Orderer for exercising the right of withdrawal shall remain unaffected. Further-reaching claims shall only apply in cases of intent or gross negligence where liability is mandatory.

4.4 We are entitled to make reasonable installment deliveries.

4.5 If the Orderer causes a delay of dispatch or delivery of the goods or if the Orderer is otherwise in default in accepting the delivery of goods or should the Orderer intentionally violate other obligations to co-operate, we then have the right to claim compensation for any incurred damages in this respect, including any possible additional expenditure. Rights remain reserved for more extensive claims. Insofar as such aforesaid conditions apply, the risk of accidental loss or accidental deterioration of the purchased goods passes over to the Orderer at the precise point of time in which he is in default of acceptance or payment.

5. Dispatch, transfer of risk, returns

5.1 The risk is passed on to the Orderer when the goods leave the factory or a warehouse. Shipping takes place uninsured at the Orderer's risk. This also applies even if free delivery is agreed and also for deliveries by our transport staff. If the shipment is delayed as a result of circumstances for which the Orderer is responsible, the risk is transferred with our notification of readiness for shipment. If the shipment is delayed at the Orderer's request or at the fault of the Orderer, then we will store the goods at the Orderer's expense. The Orderer is required to check without delay whether the goods have been damaged during transportation and to immediately inform the carrier and deliverer of any damage or loss. Shipping takes place on behalf of the Orderer.

5.2 If the supplier has no statutory obligation to accept returned goods, the Orderer may only return goods with our express written consent and provided that they are undamaged and returned in the original packaging. 30% of the invoiced amount will be deducted from the credit note to cover processing costs. All reprocessing, freight, insurance and packaging costs are charged to the Orderer. Principally, it is not possible to return custom-made products.

6. Retention of Title

6.1 The goods remain our property until the fulfilment of all our entitled claims against the Orderer (goods subject to retention of title), even if the individual goods have been paid for. A pledge or chattel mortgage of the reserved goods is not permissible.

6.2 In the case of the permissible resale of the reserved goods within the ordinary course of business, the Orderer assigns us already now, until payment of all our claims, as collateral for its future claims towards his customers resulting of such resale without requiring any specific further explanations. This assignment also covers balance claims resulting from existing current account relationships or at their termination of the Orderer with his customers. If the reserved goods are sold together with other goods without agreeing upon an individual price for the reserved goods, the Orderer assigns us the priority over the other claims for such part of the total price claimed which corresponds to the value invoiced by us. Until revoked, the Orderer is authorized to collect the assigned demands from the resale, he is not entitled to dispose of them otherwise, e.g. by assignment. Upon our request, the Orderer must inform his customer about the assignment and to furnish us the necessary documents for the assertion of his rights towards the customer, e.g. to deliver invoices and to provide the required details.

6.3 If the purchaser does not meet all or a part of his payment obligations within 10 days after due date, if he does not cash due checks or if an application for insolvency is filed, we have the right to withdraw from the contract and to require the return of the goods. The purchaser is obliged to procure us with the possession of the goods. The Orderer grants us or any of our authorized representatives the access to all business premises during business hours. We are entitled to use the reserved goods with the diligence of a prudent businessman and to satisfy ourselves with the offsetting of open claims with their proceeds.

6.4 As long as the ownership has not been transferred, the Orderer is to inform us in writing immediately if the supplied item is seized or is exposed to other interventions by third parties. If the third party is unable to indemnify us for the costs of legal or out-of-court costs of a claim according to par.

771 ZPO (German Code of Civil Procedure), the Orderer is liable for our amount outstanding.

7. Warranty

7.1 We are liable for the defects of the goods (in the first instance under the exclusion of the Orderer's rights to back out of the contract or to reduce the purchase price) through rectification of the defect or replacement delivery at our choice. The Orderer shall grant us a reasonable time period to provide the rectification. If the supplementary performance does not work, the Orderer may basically according to his choice demand a cut of the compensation (decrease) or a cancellation of the contract. The improvement is considered failed after the second unsuccessful attempt, provided further improvement attempts are not appropriate due to the subject matter of the contract and are not reasonable to the Orderer. In case of a minor breach of contract, especially minor defects, the Orderer, however, does not have a right of cancellation.

7.2 Warranty rights of the Orderer require that the Orderer's obligations to make inspection and give notice of defects according to par. 377 HGB (German Commercial Code) have been properly fulfilled.

7.3 The Orderer must notify us concerning obvious defects within a period of 10 days after receipt of goods, otherwise the assertion of the warranty claim is excluded. Non-obvious defects must be claimed immediately when they are discovered or determined, otherwise they are deemed to be approved. For all presuppositions for claims he full burden of proof forlies with the Orderer, especially for the deficit itself, for the time period of the determination of the defect, and for the timeliness of the notice of defect.

7.4 If the Orderer, due to a deficiency in title or a material defect after failed subsequent performance, chooses to cancel the contract, he shall not be entitled to additional claims for damages due to the defect.

7.5 The warranty period amounts to one year from date of delivery of our goods to the Orderer.

7.6 The warranty obligation is void if the goods have suffered from improper handling or storage or if improper changes were made to them without the supplier's approval. We are not liable for subsequent changes to the lights, their internal circuitry, equipment or the lamps.

7.7 The condition of the goods only the product description of the manufacturer applies as agreed upon. Additional public statements or advertisements of the manufacturer do not represent a contractual statement on the nature of the goods.

7.8 In the event that the article of sale cannot be used by the Orderer as stipulated in the contract of sale as a result of negligent violation of collateral contractual duties, especially with regard to operating and maintenance instructions, we shall also be liable in accordance with paragraph 7.6.

In case of consulting we can only be held responsible if special payment was agreed in writing.

7.9 Claims made by the Customer against the Supplier for installation and disassembly costs, unless they serve to detect errors, costs of disposal and costs for hoisting devices and scaffolding shall be excluded. The Customer shall bear the costs of the necessary recommissioning, software reinstallation or software updates. Where the Supplier meets its cost absorption obligation pursuant to Article 478 of the German Civil Code with respect to other expenses necessary for supplementary performance, the Supplier shall be entitled to pay such expenses by means of a credit note for goods. A right to compensation for damages to the goods themselves shall be excluded. This does not apply, as far as compelling liability is given in cases of intent, gross negligence, lack of guaranteed product properties or the Product Liability Act.

8. Limitation on Liability

8.1 As far as it is not expressly stipulated otherwise in these conditions, the claims against us, our legal representatives and any person employed by us in the performance of our obligation and any vicarious agent resulting from damages, including consequential damages, which occur to the Orderer or a third party, in particular such damages resulting from fault at contract conclusion, culpable breach of an obligation and negligent and impermissible actions are excluded.

8.2 The aforesaid limitations of liability shall not affect the Orderer's product liability claims. In addition, we are liable for loss of life, physical injury and damage to health (regardless of existing limitation of liability according to the statutory provisions) that are caused by a negligent or wilful breach of duty on our part, our legal representatives or our assistants. We are liable under statutory provisions for damages that are not covered by clause 1 and that are based on fraudulent intent by us, our legal representatives or our assistants.

8.3 The Orderer's claim for damages for defect becomes time-barred after one year from date of delivery of the goods to the Orderer. This shall not apply if we can be accused of malice. In these cases, the statutory provisions apply.

9. Applicable law, place of jurisdiction

For these business relationships and all legal relationships between us and the Orderer, - including export contracts - the governing law of the Federal Republic of Germany applies exclusively. The application of the UN jurisdiction, concerning sales and purchase procedure, is excluded. If legally permissible, the place of jurisdiction for all disputes directly or indirectly resulting from a contractual relationship is, by our choosing, either Haßfurt or the court responsible for the Orderer's registered office. The place of fulfilment for deliveries and payments is also Haßfurt. If individual conditions of the contract including these GTC are partially ineffective or will be, the validity of the other conditions are not affected by it. The whole or partial ineffective condition should be replaced by conditions, whose economic purpose comes as close as possible to the ineffective one.

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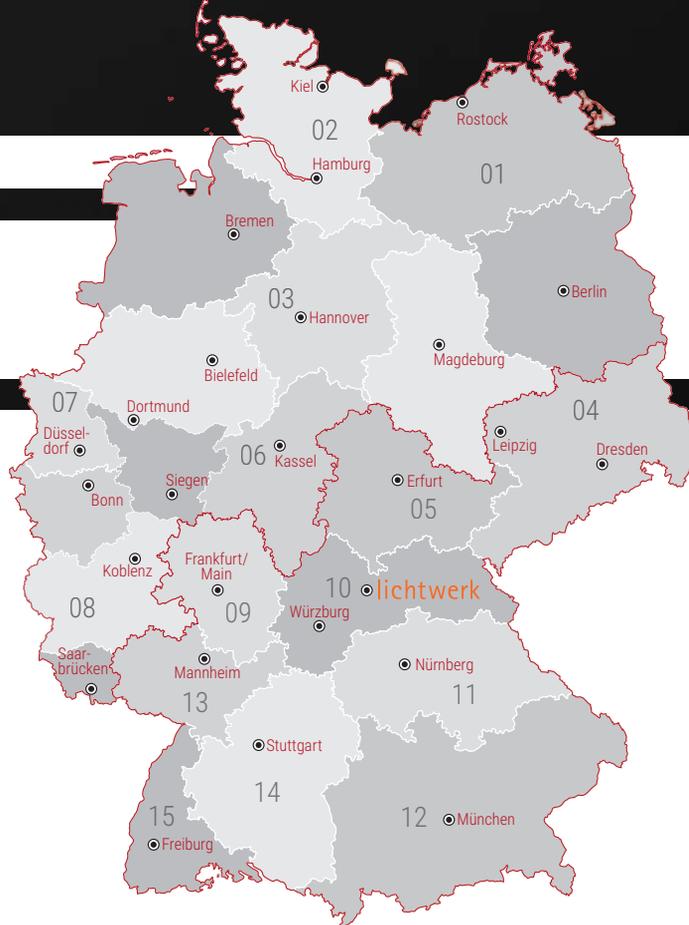
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EXCLUSION OF LIABILITY

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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.

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