



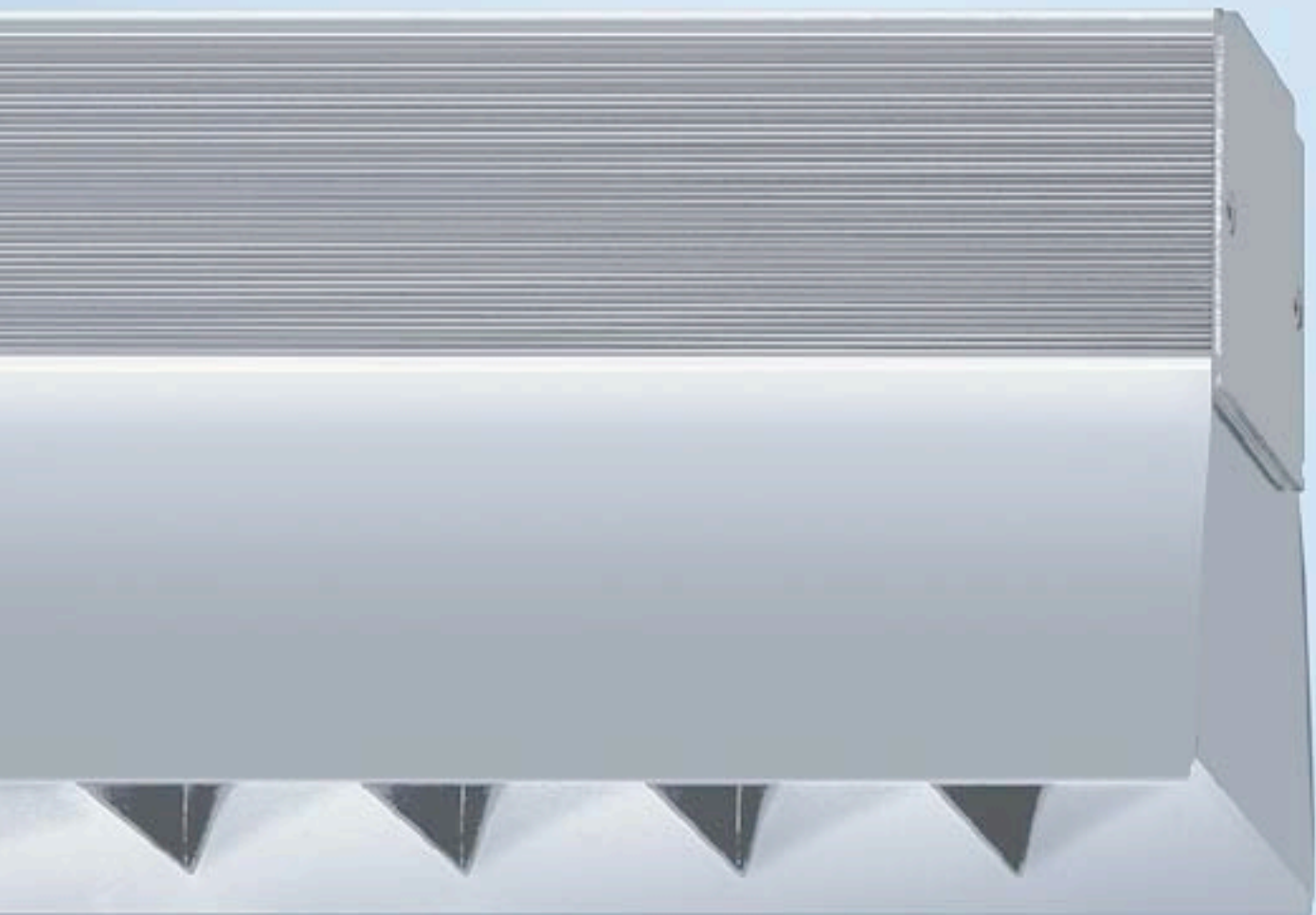
**RTX II**

Design oriented  
Continuous row system



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Design oriented  
Continuous row system



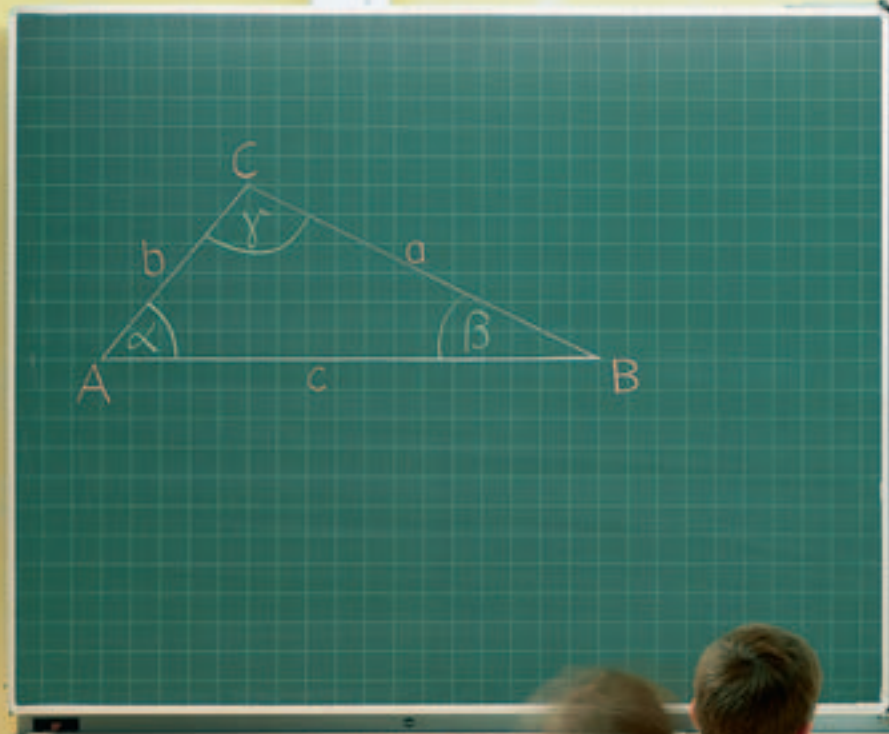


The creative department of a design studio reflects the high standards which employees set for their work, their environment and themselves. Thanks to its modern design, the RTX II indi-



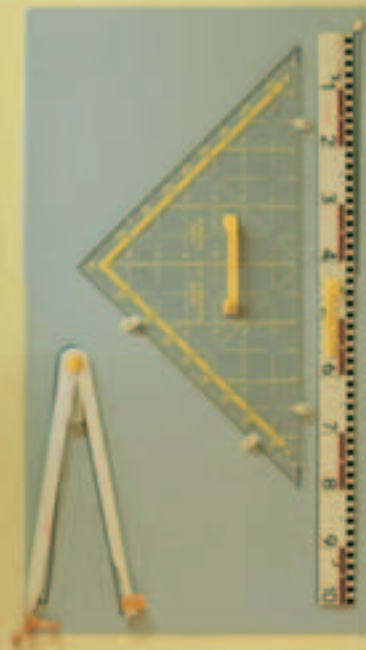


vidual luminaire blends harmoniously into the interior and, by providing direct light, ensures high economic efficiency and good glare control for modern DSE workstations.



Anyone who has to concentrate for hours on end needs perfect lighting conditions. The RTX II continuous row system provides efficient classroom lighting, the wallwasher guarantees uniform vertical and horizontal illumination of blackboards for even the most demanding visual tasks.







## Avant-garde in terms of both material and shape

Charles Keller made design history when he created the “original”. The RTX II represents the continuation of this success story – avant-garde in terms of both materials and shape, versatile and, thanks to its purely direct light distribution, extremely efficient with its advanced, glare-free lighting technology.

Thanks to T16 fluorescent lamps, the RTX II is able to provide a continuous row system with compact dimensions. Its discreet, refined lines merge unobtrusively into modern architectural schemes. The one-piece louvre enhances the luminaire’s compact looks and emphasises the external sleekness of its lines thanks to the complete absence of any visible joints.

DESIGN

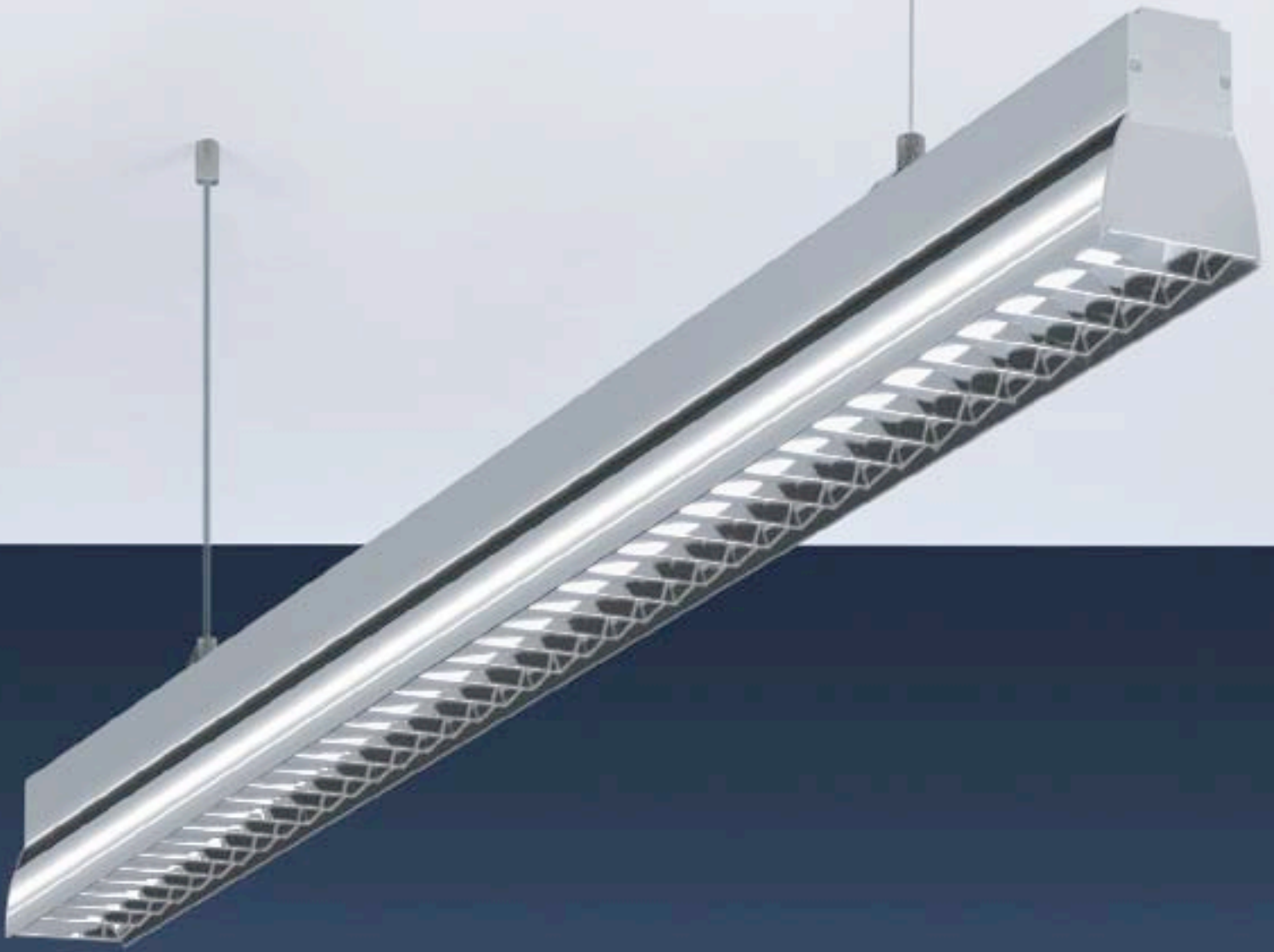
RTX II

CHARLES KELLER

*“The RTX II is both an individual luminaire and a lighting system, and hence offers an entire range of solutions for a wide range of applications – from offices to classrooms. Contemporary, sleek design and the differentiated use of aluminium in a natural, anodised finish lend the system its uncluttered, clean lines.”*







## A design solution for demanding tasks



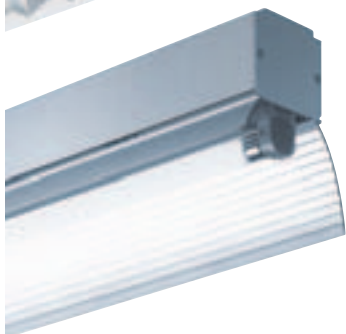
The **aluminium reflector optic in darklight materials** guarantees perfect technical lighting features, its avant-garde appearance blending perfectly with modern interior designs.



The **matt bivergent reflector optic** matches the trunking for a harmonized, uniform look. High-efficiency lighting in conformity with relevant standards makes RTX II perfect for use in schools and offices.



The perforated side sections of the matt bivergent louvre provide the **indirect component of RTX II C/ID** to pleasantly illuminate the ceiling and trunking.



Specially designed for **illuminating blackboards** in classrooms, the wallwasher completes the RTX II range. Optimised lighting technology ensures that demanding visual tasks involving blackboard work are accomplished with ease.



The **RTX II spotlight** provides accent lighting in office side rooms, corridors and prestigious areas. Retaining the high-quality aluminium look, it fits harmoniously into the system range.



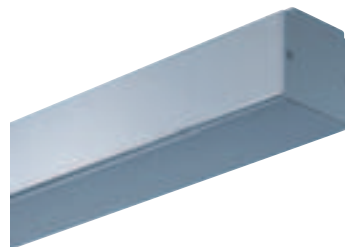
**Artline optics** boast consistently perfect design for prestigious reception and corridor areas. The cover made of diffuser-pearl material with its visible luminance levels creates a pleasantly bright room atmosphere.



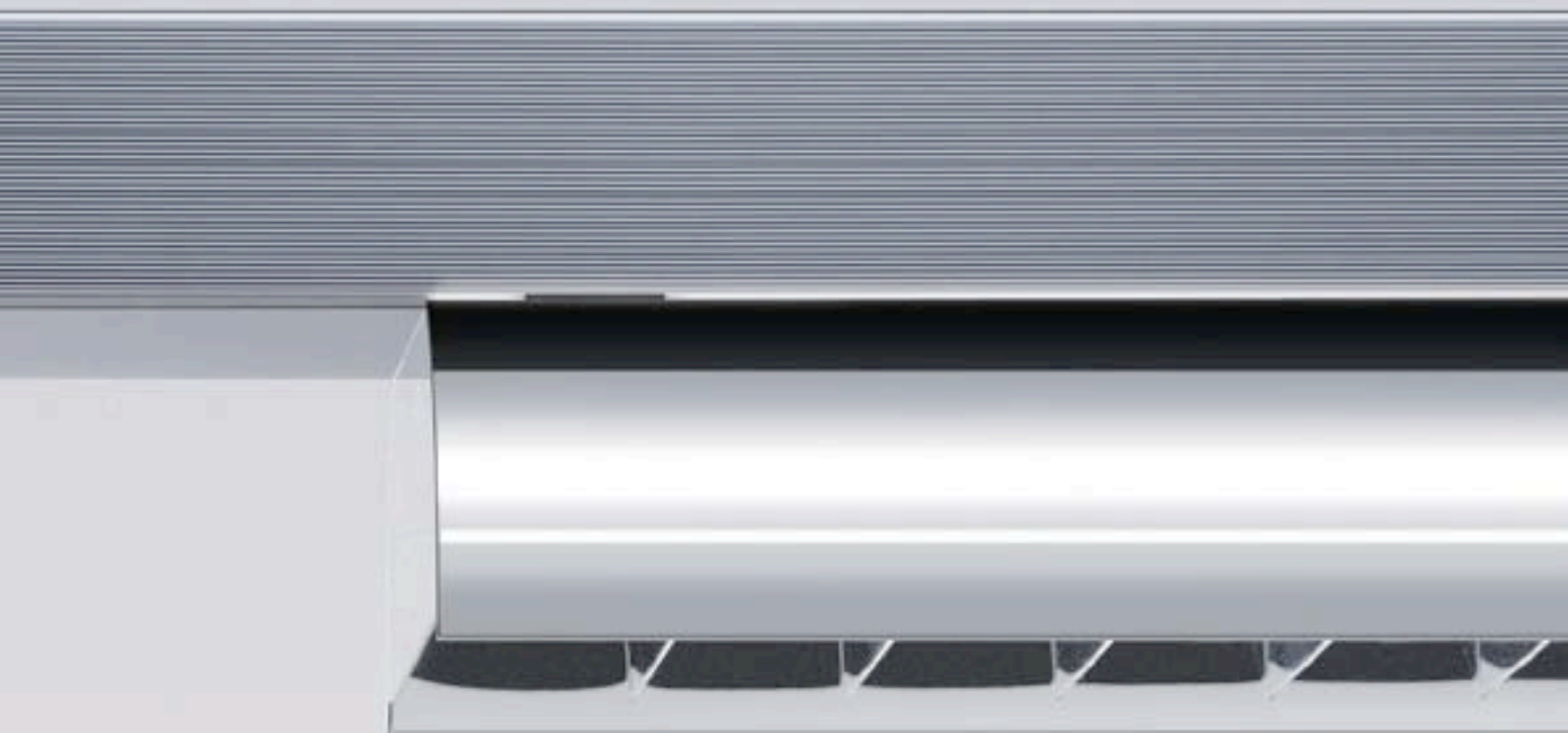
The RTX II design range includes an optic with asymmetrical light distribution for accentuated **wall illumination**.



The additional aluminium cover (cover section for batten luminaire) provides a consistent look where the unit is used as a **batten luminaire with open light distribution**.

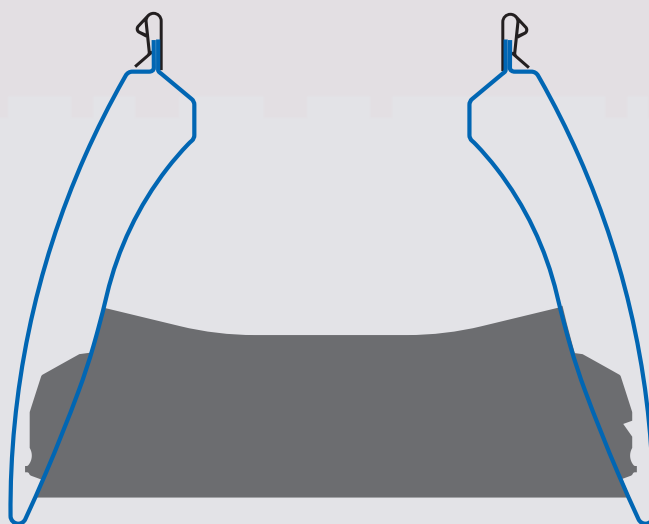


The **aluminium cover section** used for installation as a continuous row system ensures a consistent look – even where luminaires and optics are not fitted. Luminaires and optics can be flexibly retrofitted thanks to through-wiring.



Consistent quality  
**one-piece design**

The darklight reflector optic of RTX II cuts a fine figure thanks to its fashionable contrasting styles, the high-tech look of the louvre optic offsetting the matt finish of the trunking. Yet the louvre projects a seamless image of consistent high quality, as well-designed optic combines with perfect lighting technology.



Darklight reflector optic in original size



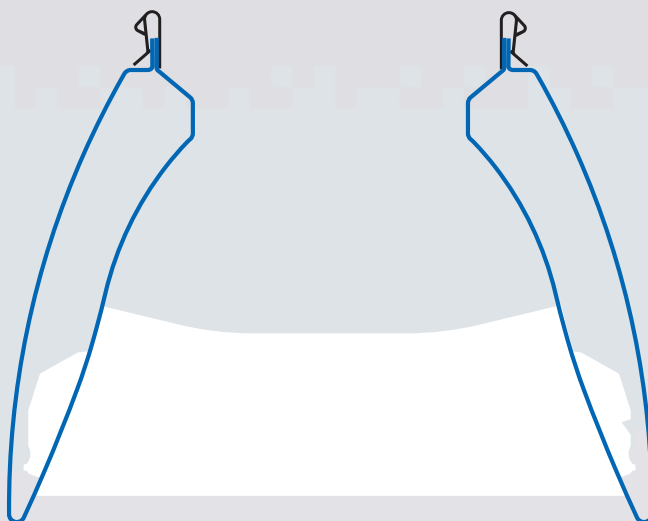
## Pure look

in a symbiosis with the interior

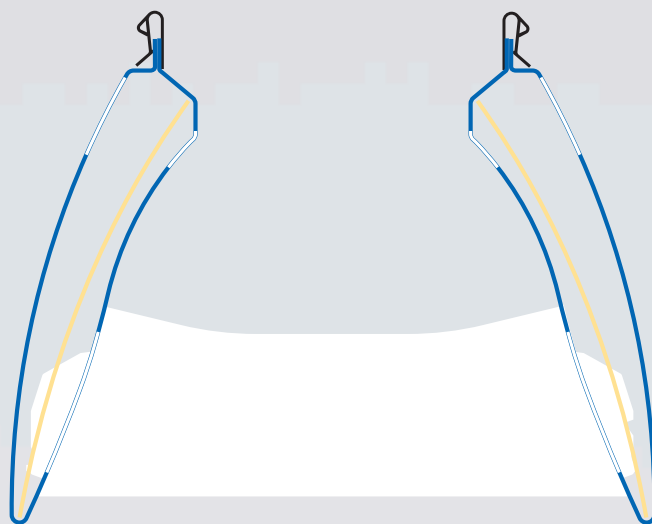
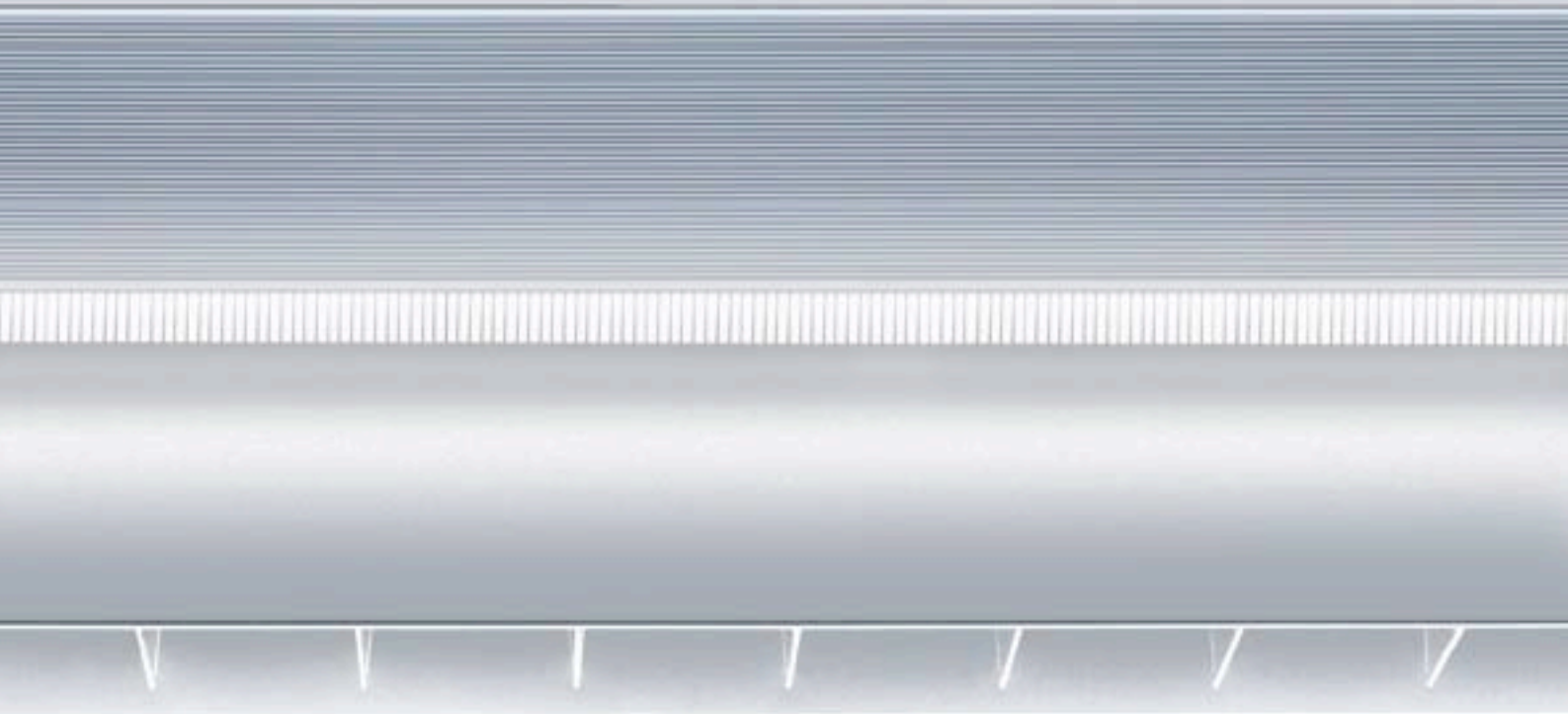


### Consistent quality **one-piece design**

A harmonized system: trunking and reflector optic blend perfectly thanks to their consistent matt look. The high-quality feel is emphasised by the finely matched materials.



Matt bivergent reflector optic in original size



Matt bivergent reflector optic with perforation, in original size

The angular side slits, matching the clear lines of RTX II, provide a gentle indirect component to the light. While pleasantly illuminating both ceiling and trunking, the RTX II luminaire itself becomes a softly luminous element in the room. The opal film in the side sections ensures a uniform lighting effect.

## Decorative, accentuated design with light



In matching style but with its own individual look within the RTX II family, the “Artline” optic is ideal for use in prestigious entrance halls, reception areas and corridors. Here the quality pairing of aluminium with diffu-

ser-pearl material is shown to best advantage. With practically unlimited design options for continuous row lighting, RTX II provides a lighting system for the whole project, from office to foyer.





The SPIRIT spotlight is the ideal complementary solution for creating highlights in corridors and prestigious areas. Its design harmonizes with the overall image of the RTX II lighting system, again reflecting the stylish aluminium look.

The cover for the spotlight element blends harmoniously with the system without visible joins. The spotlight is a complete, self-contained, ready-to-connect unit.

## Specular finishes and “bivergence” in matt

When unique technology becomes design

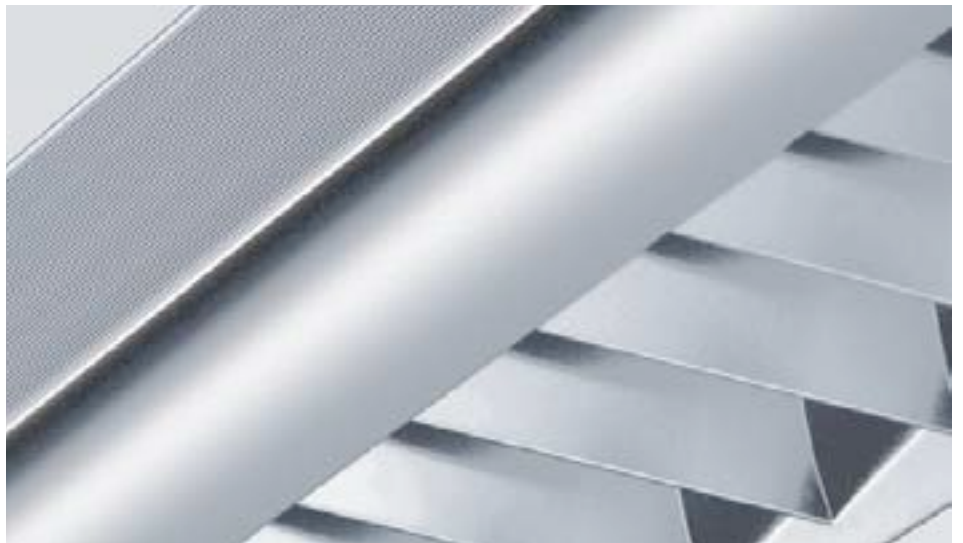
### RTX II D **specular, darklight** finish

RTX II darklight radiates purism – purism backed up by functionality: its highly specular one-piece aluminium reflector optic guarantees optimum glare reduction for the latest office workstations, and makes the RTX II D the ideal choice for lighting wherever concentrated DSE work is the order of the day.



### RTX II C **semi-matt** finish

The one-piece louvre is not only an unmistakably distinctive feature of the RTX II range, besides its design; it also provides purely direct, efficient lighting for offices and classrooms. The matt bivergent reflector optic ensures a bright, pleasant room atmosphere and at the same time guarantees perfect luminance limitation in accordance with EN 12464.



### RTX II C/ID **matt finish**

The linear design theme of the continuous-row lighting system is taken up again in the perforation on the side sections of the RTX II C/ID matt bivergent reflector optic. The indirect light component emitted gently illuminates the trunking and ceiling above, transforming RTX II itself into a “luminous object” in the interior. The surface-mounted and pendant versions of RTX II thus unobtrusively create a pleasant room atmosphere.



**What applications require particular types of luminaires?**

The diagrams take into account both photometric requirements as well as fixed investment costs for various applications. The blue fields show the ideal luminaire type(s) for a particular application area

**Application areas**

- Day school
- Technical college/evening school
- Office
- Office with DSE
- Open-plan office
- Technical drawing

RTX II-D							
1/35 W	1/49 W	1/54 W	1/80 W	2/28 W	2/35 W	2/49 W	2/54 W

**Application areas**

- Day school
- Technical college/evening school
- Office
- Office with DSE
- Open-plan office
- Technical drawing

RTX II-C							
1/35 W	1/49 W	1/54 W	1/80 W	2/28 W	2/35 W	2/49 W	2/54 W

**Application areas**

- Day school
- Technical college/evening school
- Office
- Office with DSE
- Open-plan office
- Technical drawing

RTX II-C/ID							
1/35 W	1/49 W	1/54 W	1/80 W	2/28 W	2/35 W	2/49 W	2/54 W



## Precise lighting technology for perfect blackboard lighting



Two situations, two different room effects: during an examination, the RTX II continuous row system provides light which encourages concentration.



During preparation for the next class, the wallwasher ensures optimum conditions for viewing vertical surfaces, e.g. the blackboard. The clever in which components in the RTX II range can be combined are shown on sites 4/5.

**Shape** Discreetly shaped and unobtrusive, the RTX II wallwasher does its job of illuminating blackboards in a way which makes concentrated viewing and learning easier. The RTX II wallwasher is itself certainly worth a second look. The luminaire's angular extruded aluminium section gives it its clean, strong look, which is Charles Keller's unmistakable design message. Inside the luminaire, the reflector's stepped vane structure ensures that light from the wallwasher is precisely directed.



### Standard 5035 Part 4

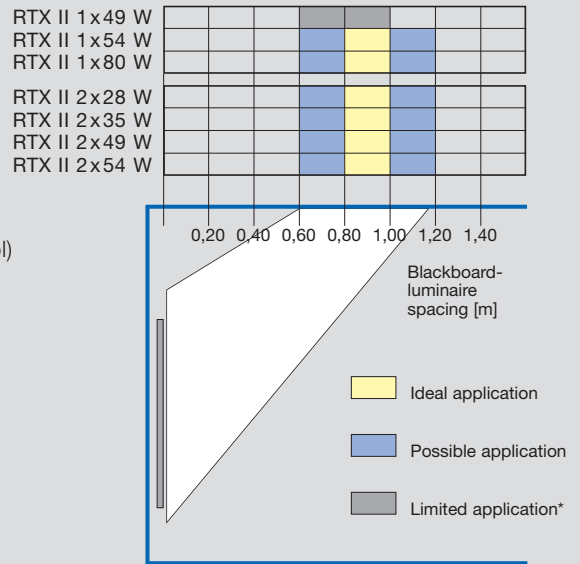
This standard stipulates the nominal illuminance for specific applications. For instance, 300 lx is required for illuminating a blackboard in a day school, for evening schools and technical colleges the required level is 500 lx. Additional blackboard lighting is required in classrooms. Measured at a height of 1.20 m, vertical illuminance must be at least equivalent to horizontal nominal illuminance in the room. The uniformity of illuminance at this height must be at least  $\bar{E}_v \geq 1 : 1.5$ . To achieve the best possible uniformity and good illumination, it is advisable to install wallwashers in the continuous row over the entire length of the blackboard (see Figure above). Where EN 12464 is valid, the levels stated above are maintained illuminance levels.

Intensive learning and hours spent reading from a blackboard make extreme demands on students. Absorbing what is being taught, also requires a properly, uniformly illuminated blackboard. The RTX II wallwasher provides the best possible help in accomplishing this visually tiring task.

The graphs show possible spacings between the wallwasher and the blackboard in compliance with the applicable standard 5035 Part 4, at a room height of 3 m. Where the room height exceeds 3 m, it is advisable to suspend the luminaire. Detailed planning is required in each individual case.

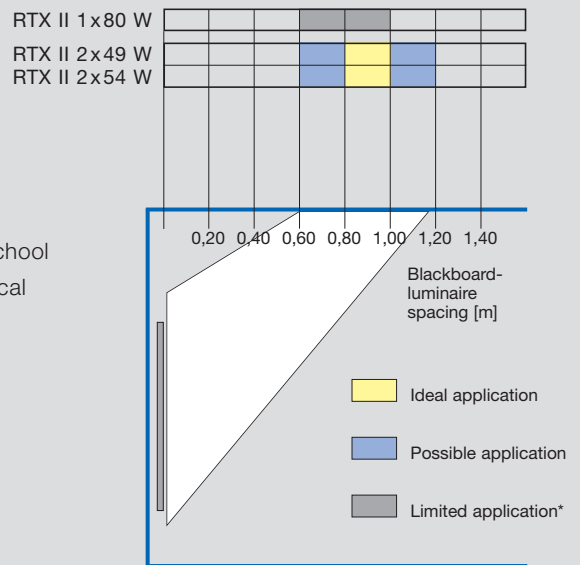


**300 Lux**  
(day school)



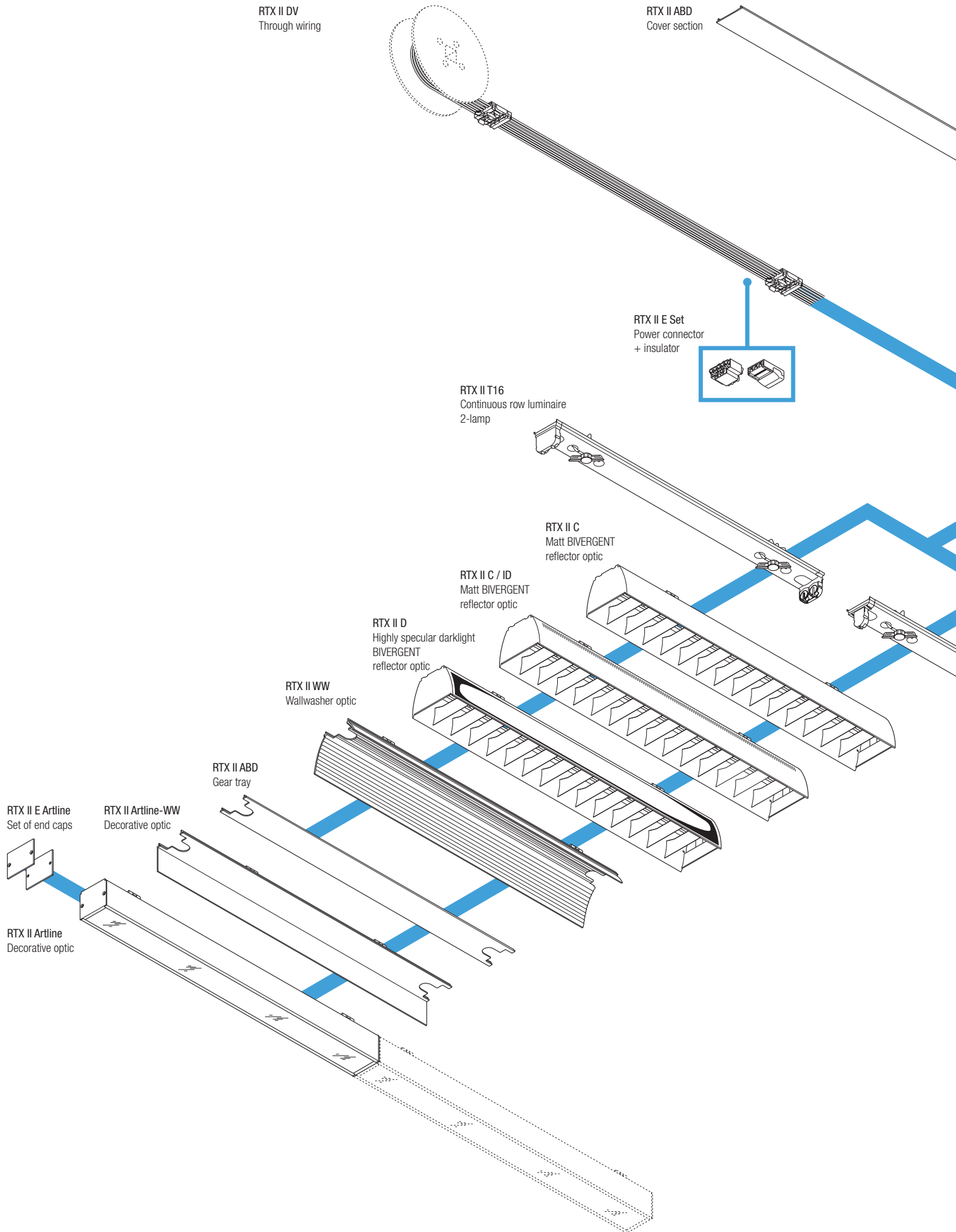
\* Depending on architectural parameters and luminaire configuration.

**500 Lux**  
(evening school and technical colleges)

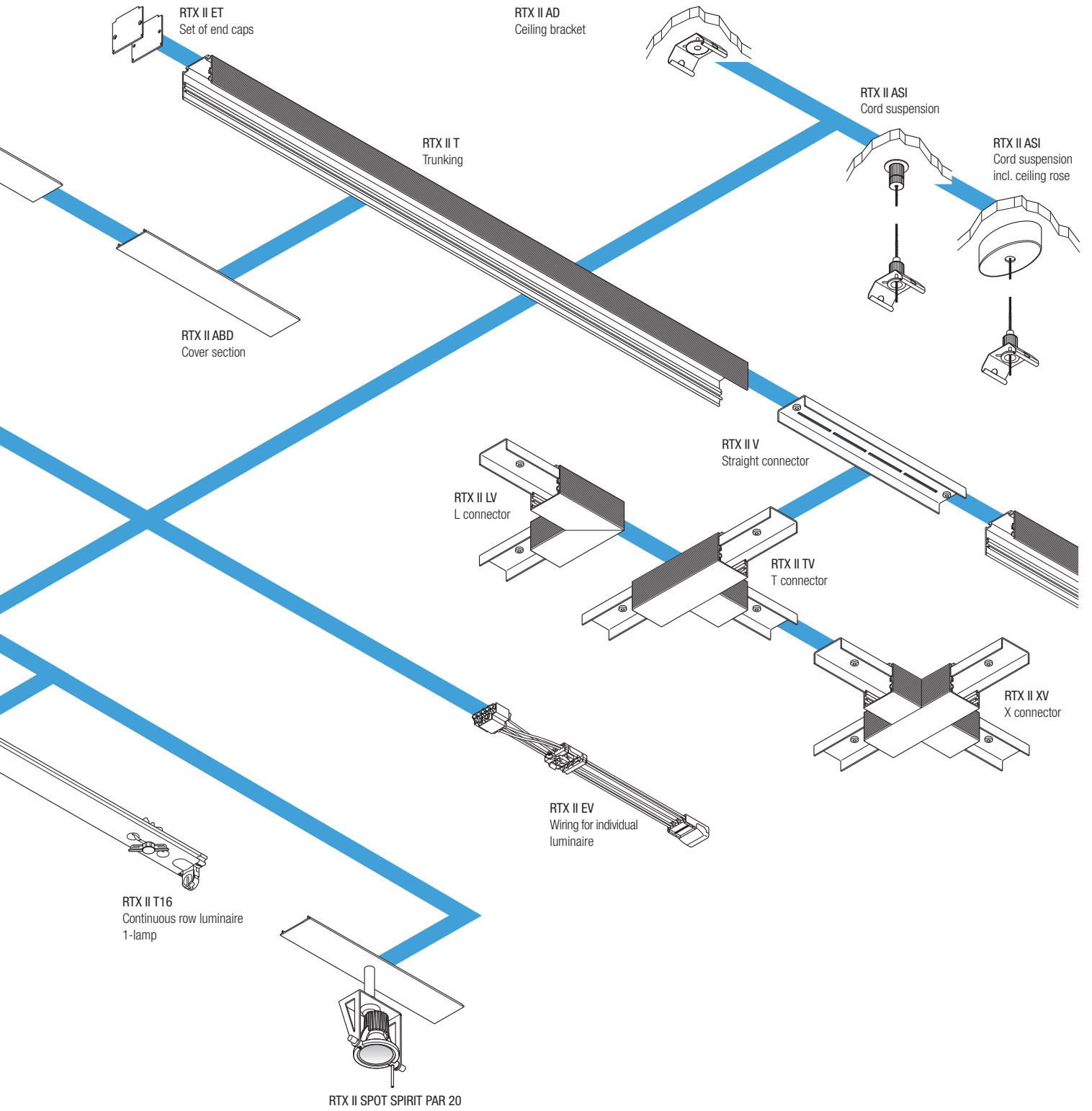


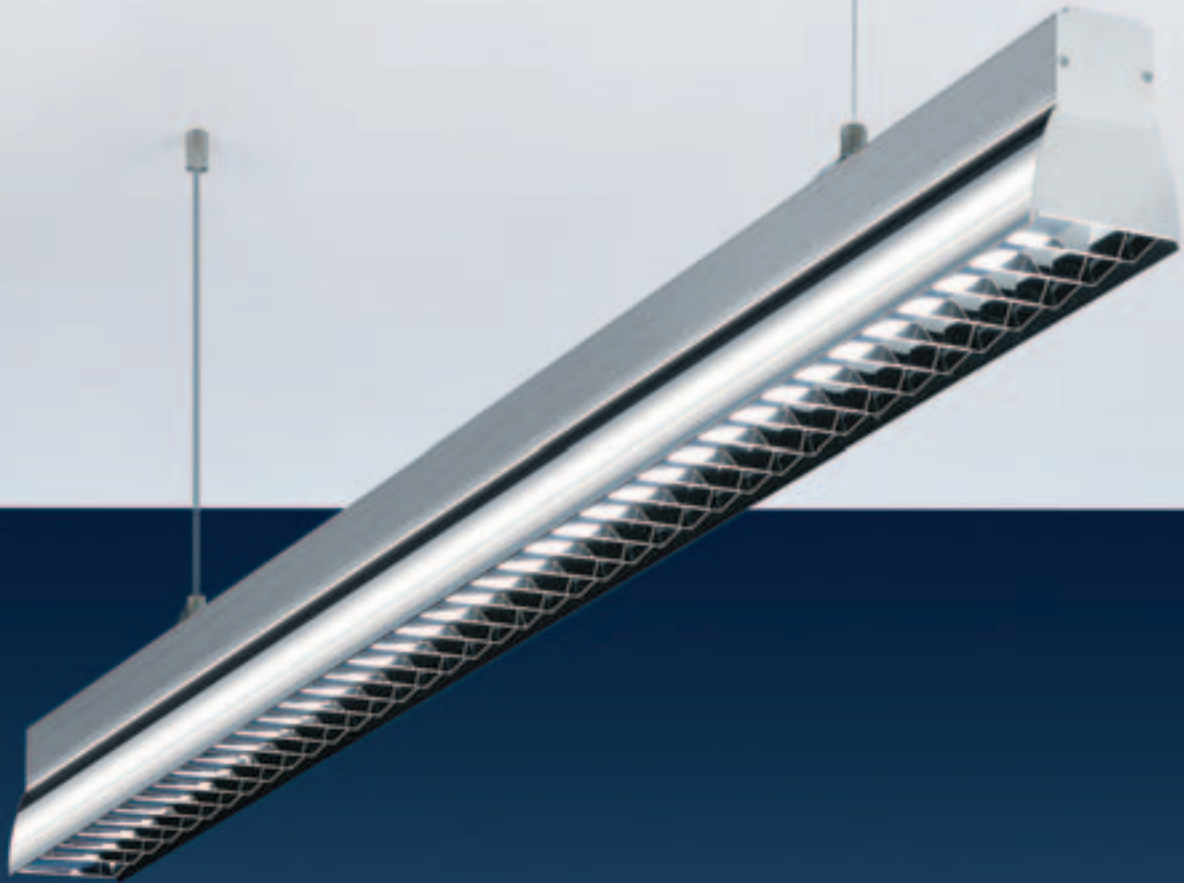
\* Depending on architectural parameters and luminaire configuration.

# RTX II system overview

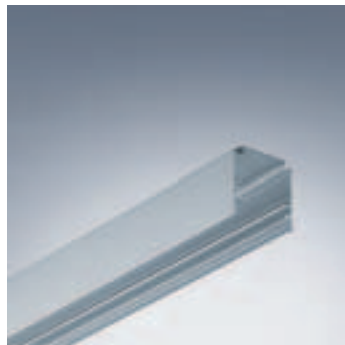








**RTX II trunking units**

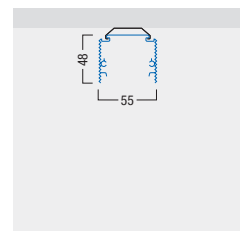


Trunking for individual and continuous row arrangement

- Extruded aluminium section in a natural anodised finish, with lateral ribbing
- Uniform cross-section of trunking for 1-lamp and 2-lamp individual luminaires as well as continuous row systems
- Three electric feed options at the rear with 13.5 mm diameter per mounting track
- Maximum spacing 2 m

Cat. no.	L	kg	Order no.
<b>1-length trunking</b>			
T 28/54	1177	1.0	22 156 739
T 35/49/80	1477	1.2	22 156 740
<b>2-length trunking</b>			
T 2x28/54	2354	1.9	22 156 741
T 2x35/49/80	2954	2.4	22 156 742
<b>3-length trunking</b>			
T 3x28/54	3531	2.9	22 156 743
T 3x35/49/80	4431	3.6	22 156 744

*Please order end-cap set, wiring components and connectors separately.*



To specify e.g.: *RTX II trunking units* T 28/54 22 156 739

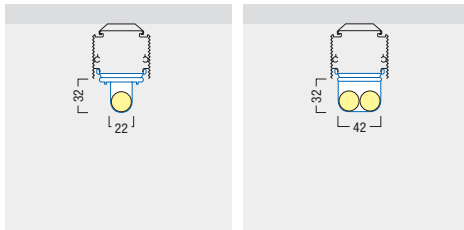
RTX II continuous row luminaires



T16 850 °C

Continuous row luminaires

- Roll-formed sheet steel with white polyester resin enamel coating
- Attractive closure with preassembled transparent lampholder shells fitted with T16 lampholders
- Phase selection on connector for 3 phase loops
- No-tool electrical and physical connection to trunking unit
- Fastened using "CLIX" mechanism, with retractable, easy-to-use rotary toggles
- "Dimmable DALI" luminaires are fitted with a DALI-controllable electronic ballast



Cat. no.	L/W/H	kg	Order no.	Order no.
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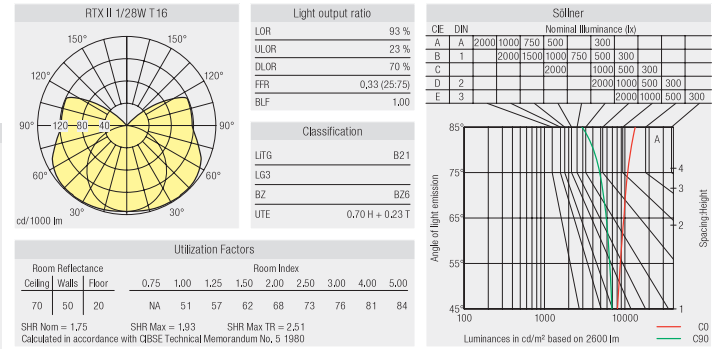
1-lamp with electronic ballast

Cat. no.	L/W/H	kg	Order no.	Order no.
1/28 W	1177/49/37	0.9	42 156 745	42 157 181
1/35 W	1477/49/37	1.0	42 156 747	42 157 182
1/49 W *	1477/49/37	1.0	42 156 751	42 157 186
1/54 W	1177/49/37	0.9	42 156 749	42 157 185
1/80 W	1477/49/37	1.0	42 156 753	42 157 187

Twin-lamp with electronic ballast

Cat. no.	L/W/H	kg	Order no.	Order no.
2/28 W	1177/49/37	1.1	42 156 746	42 157 183
2/35 W	1477/49/37	1.2	42 156 748	42 157 184
2/49 W *	1477/49/37	1.2	42 156 752	42 157 189
2/54 W	1177/49/37	1.1	42 156 750	42 157 188

\* Dimmable luminaire (can only be controlled with DALI signal).



RTX II SPIRIT spotlight



OPAR20 G110 OPAR-CB20 G210 0,7 m 960 °C

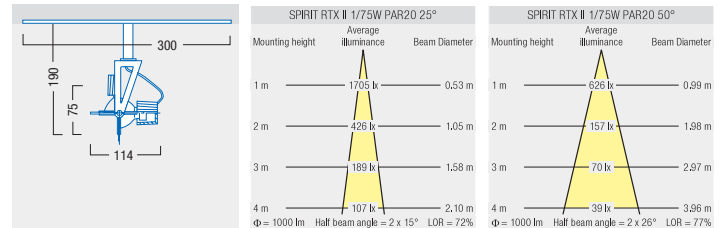
Spotlight for RTX II

- Lampholder housing made of die-cast aluminium
- Spotlight and electrical system can be mounted as a complete unit by means of the Clix mechanism
- Consistent aluminium look and flush closure within system
- Lampholder: GZ 10
- Rotates through 365°, pivots through ± 90°

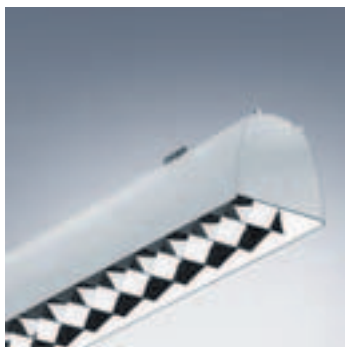
Cat. no.	L/W/H	kg	Order no.
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Spotlight for RTX II

1/75 W PAR 20/PAR-CB 20	300/95/190	0.4	60 710 117
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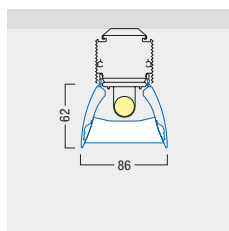
RTX II D highly specular darklight BIVERGENT reflector optic



T16 850 °C

Louvre for 1-lamp and 2-lamp luminaires

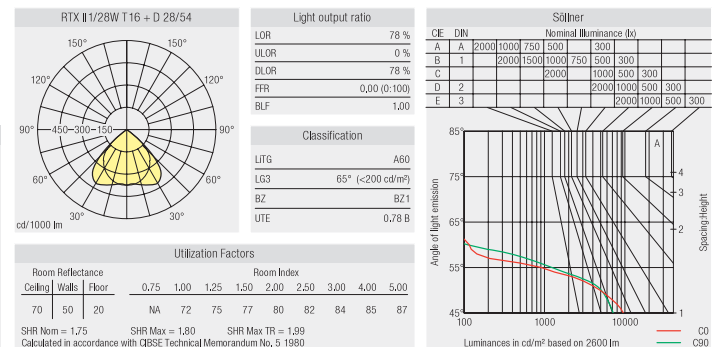
- BIVERGENT darklight reflector optic in highly specular anodised aluminium
- Single- and twin-lamp louvre in same cross-section
- Purely direct light distribution characteristics
- Glare limitation for DSE L < 1,000 cd/m² at 65°. For details, please refer to the current CD-ROM.
- Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs



Cat. no.	L	kg	Order no.
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Darklight reflector optic

D 28/54	1177	0.5	22 156 757
D 35/49/80	1477	0.6	22 156 758



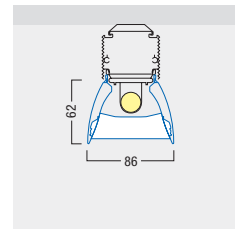
To specify e.g.: RTX II continuous row luminaires 1/28 W 42 157 181

RTX II C matt BIVERGENT reflector

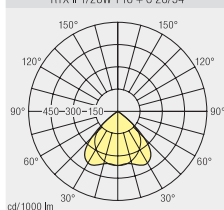


- Louvre for 1-lamp and 2-lamp luminaires
- Matt bivergent reflector optic in aluminium with a matt anodised finish
  - Single- and twin-lamp louvre in same cross-section
  - Purely direct light distribution characteristics
  - Glare limitation for DSE  $L < 1,000 \text{ cd/m}^2$  at  $65^\circ$ . For details, please refer to the current CD-ROM.
  - Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L	kg	Order no.
<b>Matt bivergent reflector optic</b>			
C 28/54	1177	0.5	22 156 755
C 35/49/80	1477	0.6	22 156 756



RTX II 1/28W T16 + C 28/54



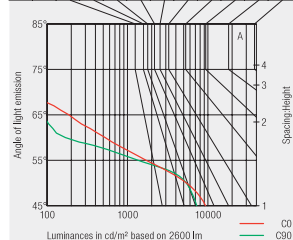
Light output ratio	
LOR	77 %
ULOR	0 %
DLOR	77 %
FRR	0.00 (0:100)
BLF	1.00

Classification	
LITG	A50
LG3	$65^\circ (<1000 \text{ cd/m}^2)$
BZ	BZ1
UTE	0.77 B

Room Reflectance		Room Index	
Ceiling	Floor	0.75	1.00
70	20	NA	69
50	20	73	75
20	20	78	80
		82	83
		84	

SHR Nom = 1,75    SHR Max = 1,79    SHR Max TR = 1,99  
 Calculated in accordance with CIBSE Technical Memorandum No. 5 1980

CE	DIN	Nominal Illuminance (lx)					
		2000	1500	1000	750	500	300
A	A						
B	1						
C	1						
D	2						
E	3						

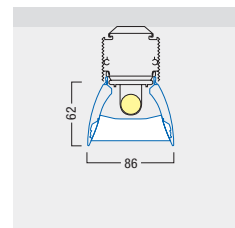


RTX II C I/D indirect/direct

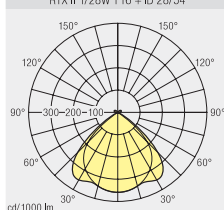


- Louvre for 1-lamp and 2-lamp luminaires
- Matt bivergent reflector optic in aluminium with a matt anodised finish
  - Direct light beam characteristics with ceiling illumination via perforated louvre side pieces
  - Single- and twin-lamp louvre in same cross-section
  - Glare reduction for DSE  $L < 1000 \text{ cd/m}^2$  at  $65^\circ$ : 1/28 W; 1/35 W; 1/54 W; 1/49 W; 2/28 W; 2/35 W for details see current CD-ROM
  - Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L/W/H	kg	Order no.
<b>Indirect/direct louvre</b>			
C I/D 28/54	1177/86/62	0.5	22 156 759
C I/D 35/49/80	1477/86/62	0.6	22 156 760



RTX II 1/28W T16 + ID 28/54



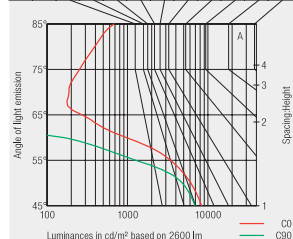
Light output ratio	
LOR	77 %
ULOR	4 %
DLOR	73 %
FRR	0.05 (5:95)
BLF	1.00

Classification	
LITG	A51
LG3	$65^\circ (<1000 \text{ cd/m}^2)$
BZ	BZ1
UTE	$0.73 C + 0.04 T$

Room Reflectance		Room Index	
Ceiling	Floor	0.75	1.00
70	20	NA	67
50	20	70	73
20	20	76	79
		80	82
		83	

SHR Nom = 1,75    SHR Max = 1,76    SHR Max TR = 2,00  
 Calculated in accordance with CIBSE Technical Memorandum No. 5 1980

CE	DIN	Nominal Illuminance (lx)					
		2000	1500	1000	750	500	300
A	A						
B	1						
C	1						
D	2						
E	3						

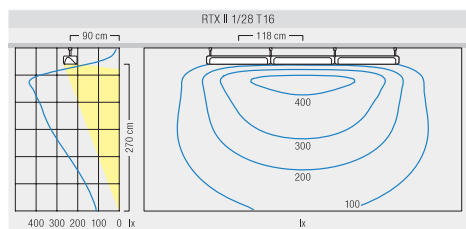
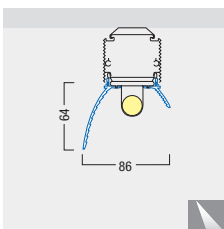


RTX II WW wallwasher optic



- Optic for 1-lamp and 2-lamp luminaires
- 1-lamp and 2-lamp wallwasher optic in same cross-section
  - Asymmetrical light distribution characteristics
  - Wallwasher made of anodised aluminium, with stepped reflector
  - Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L	kg	Order no.
<b>Wallwasher</b>			
WW 28/54	1177	1.0	22 156 761
WW 35/49/80	1477	1.2	22 156 762



To specify e.g.: RTX II C matt BIVERGENT reflector C 28/54 22 156 755



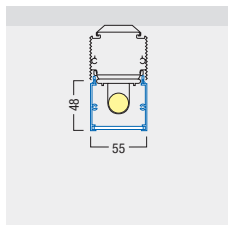
RTX II Artline



T16 650 °C

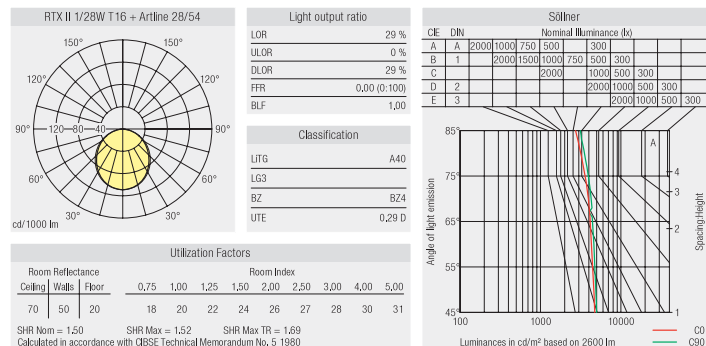
Optic for 1-lamp luminaires

- Decorative optic made of natural anodised aluminium extrusion, with central controller in diffuser-pearl material
- Symmetrical light distribution characteristics
- Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

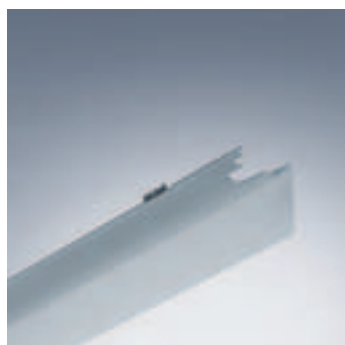


Cat. no.	L	kg	Order no.
<b>Artline</b>			
Artline 1/28/54	1177	1.0	22 156 769
Artline 1/35/49/80	1477	1.3	22 156 770

For a flush finish, the Artline end-cap set must be ordered separately.



RTX II WW Artline

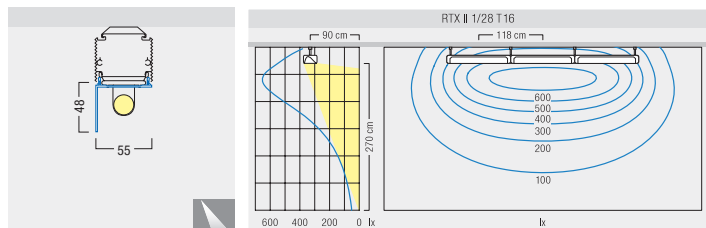


T16 650 °C

Optic for 1-lamp luminaires

- Decorative optic in aluminium extrusion, natural anodised finish
- Asymmetrical light distribution characteristics
- Fixed to trunking by means of CLIX mechanism, using 4 pre-assembled springs

Cat. no.	L/W/H	kg	Order no.
<b>Artline wallwasher</b>			
Artline-WW 1/28/54	1177/55/48	0.5	22 156 771
Artline-WW 1/35/49/80	1477/55/48	0.7	22 156 772



RTX II ET end-cap set trunking



End-cap set

- Made of aluminium in a natural anodised finish
- Fixed to trunking using 2 torque screws supplied

Cat. no.	Order no.
<b>End caps</b>	
ET Set	22 128 084

Please order end-cap set separately (1 set = 2 end caps with 4 torque screws).

RTX II Artline end-cap set



Artline end-cap set

- Front-end cover for closing symmetrical Artline optic flush with trunking
- Fixed using 2 torque screws

Cat. no.	Order no.
<b>End caps</b>	
E Artline Set (pair)	22 157 147

Please order end-cap set separately (1 set = 2 end caps).

To specify e.g.: RTX II Artline Artline 1/28/54 22 156 769

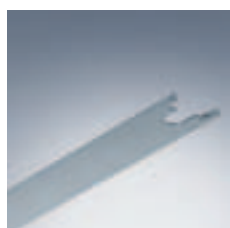
RTX II cover section



- Cover section**
- Made of extruded aluminium section, natural anodised finish
  - Mounted to trunking by means of CLIX mechanism, via 2 pre-assembled springs

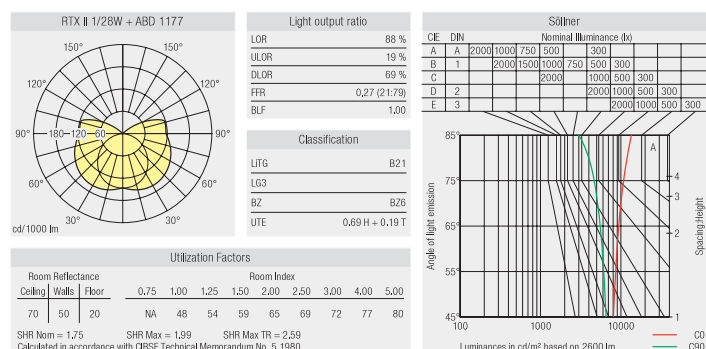
Cat. no.	L/W/H	kg	Order no.
<b>Cover section</b>			
ABD 1177	1177/55/52	0.3	22 156 773
ABD 1477	1477/55/52	0.4	22 156 774
ABD 589	590/55/52	0.2	22 156 775
ABD 739	740/55/52	0.2	22 156 776

RTX II cover section individual batten luminaire

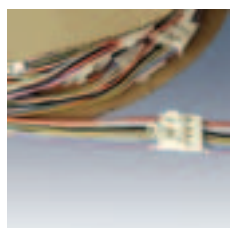


- Cover section for lighting insert**
- Made of extruded aluminium section, natural anodised finish
  - For use as individual batten luminaire with open light distribution
  - 1-lamp and 2-lamp cover identical

Cat. no.	L/W/H	kg	Order no.
<b>Cover section</b>			
ABD 1177	1177/55/52	0.3	22 157 145
ABD 1477	1477/55/52	0.4	22 157 146



RTX II through-wiring



- Continuous row through-wiring**
- Continuous row system through-wiring without conductor interfaces for greater electrical safety
  - Heat-resistant up to 105 °C
  - 3 phase loops and 1 control loop
  - Only from the reel (number of luminaires required = number of through-wirings required)

Cat. no.	Order no.
<b>Through-wiring</b>	
DV 7x1.5 mm <sup>2</sup> 28/54	22 156 777
DV 7x1.5 mm <sup>2</sup> 35/49/80	22 156 781

Please order feed-in set separately.

RTX II E feed-in set



- Feed-in set**
- 7-pole terminal block and insulator

Cat. no.	Order no.
<b>Feed-in set</b>	
E Set	22 156 782

For continuous row system and row system with gaps, the feed-in set must be ordered separately. With individual luminaires, the feed-in set is included in the supply.

RTX II wiring for individual luminaires



- Wiring for individual luminaire**
- Heat-resistant up to 105 °C
  - 1 phase loop and 1 control loop

Cat. no.	Order no.
<b>Individual luminaire wiring</b>	
EV 5x1.5 mm <sup>2</sup> 28/54	22 066 685
EV 5x1.5 mm <sup>2</sup> 35/49/80	22 156 783

Feed-in set included in wiring.

To specify e.g.: RTX II cover section ABD 1177 22 156 773

RTX II connectors



Connector

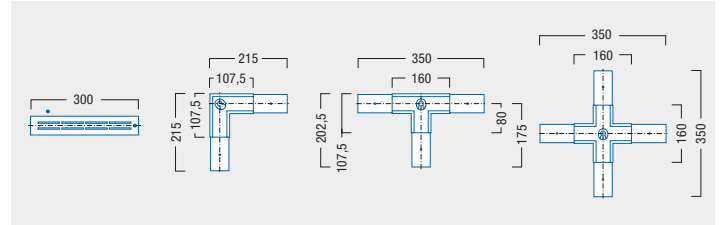
- Straight connector, galvanised
- L, T and X connectors made of mitred aluminium extrusions, galvanised load-bearing element
- Feed possible in area of angle

Cat. no.	kg	Order no.
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Connector

LV L-connector anodized	0.5	22 156 793
TV T-connector anodized	0.6	22 156 794
XV X-connector anodized	0.8	22 156 795
V Straight connector Zinc	0.3	22 156 792

Please order connectors separately.



RTX II ASI cord suspension with ceiling rose, white/silver



Cord suspension for RTX II luminaires

- Elliptical ceiling rose made of plastic, with terminal device for 6 poles and earth
- Made of galvanised steel cord
- Diameter: 1.8 mm
- Cord suspension and ceiling bracket are nickel-plated
- V2A spring clip
- Continuous height adjustment
- Fastening spring made of stainless steel
- Maximum spacing 2 m

Cat. no.	L	Order no.
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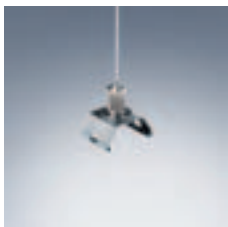
Suspension cord, white

ASI1000	1000	22 156 788
ASI2000	2000	22 156 789

Suspension cord, silver

ASI1000	1000	22 157 368
ASI2000	2000	22 157 369

RTX II ASI cord suspension



Cord suspension for RTX II luminaires

- Made of galvanised steel cord
- Diameter: 1.8 mm
- Cord suspension and ceiling bracket are nickel-plated
- V2A spring clip
- Continuous height adjustment
- Fastening spring made of stainless steel
- Maximum spacing 2 m

Cat. no.	L	Order no.
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Cord suspension

TECTON ASI 1000 mm O-L	1000	22 128 443
TECTON ASI 2000 mm O-L	2000	22 128 459

RTX II AD ceiling bracket



Ceiling bracket

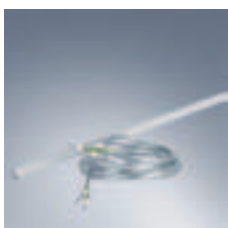
- Fastening spring made of stainless steel
- Fastened to trunking using "CLIX" mechanism
- Maximum spacing 2 m

Cat. no.	L/W/H	Order no.
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Ceiling bracket

TECTON AD	28/42/9	22 128 005
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RTX II transparent feed cable



Cat. no.	L	Order no.
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Transparent feed cable

3x0.75 1.0 m transparent	1000	42 120 919
3x0.75 1.5 m transparent	1500	42 120 900
3x0.75 10.0 m transparent	10000	22 127 714
5x0.75 1.0 m transparent	1000	22 125 146
5x0.75 1.5 m transparent	1500	22 125 152
5x0.75 10.0 m transparent	10000	22 127 720

Please note: The transparent feed cable is only suitable for connection of 1 luminaire. For through-wiring, 1.5 mm<sup>2</sup> must be used for safety reasons.

To specify e.g.: RTX II connectors LV 22 156 793

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