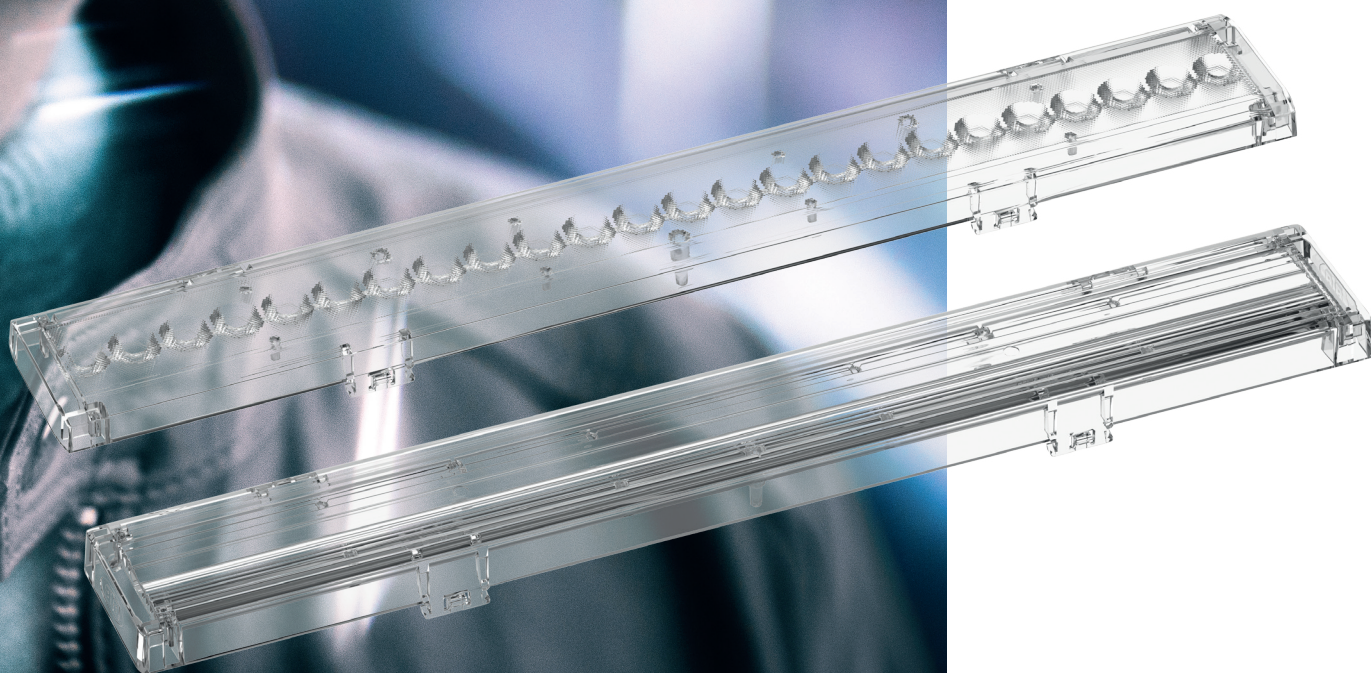




Technology for Light

Introducing: Optics With 1-Click- Fixing System

PITCH DEPENDENT
AND INDEPENDENT
SINGLE ROW OPTICS





Single Row Optics with 1-Click-Fixing for linear LED modules

Fast, safe
secure assembly,
outstanding lighting performance.



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PATENT
PENDING

1-Click-Opticsn Benefits

BJB presents a new range of single-row optics that can be assembled **faster than ever before**, thanks to innovative 1-click fixing. The optics connect to the LED module in a single step - without tools, screws or other mounting elements. Centering pins and spacers position and fix the circuit board and optics securely and in the correct position on the luminaire metal sheet or aluminum profile. The end caps provide a clean finish.

In addition to **efficient assembly**, BJB optics with 1-click fixing provide optimum **operational safety**. The optics meet all requirements for NON-SELV applications. Made from impact-resistant PC, the optics cannot be dismantled without tools. The BJB optic system meets all requirements for protection against electric shock by utilizing a key and slot system that provides additional contact protection.

The new BJB optics are available in two versions: The **pitch-dependent** optics of the 35.324 series ensure particularly **low glare**, while the pitch-independent optics of the 35.301 series offer maximum flexibility in **light control** and **module selection**.



Perfect for Retail and Commercial

Optics are essential for **light distribution and control**. Individual lighting requirements are met by utilizing BJB optics to vary illumination properties. Of particular importance in optic design is compatibility with a wide-range of LED modules and low glare, indicated by UGR value.

The pitch-dependent optics of the 35.324 series are particularly low-glare and provide a homogeneous light appearance due to the optimised microstructure surface. The 35.324 series optics are specifically designed for applications in which require a high level of focused illumination.

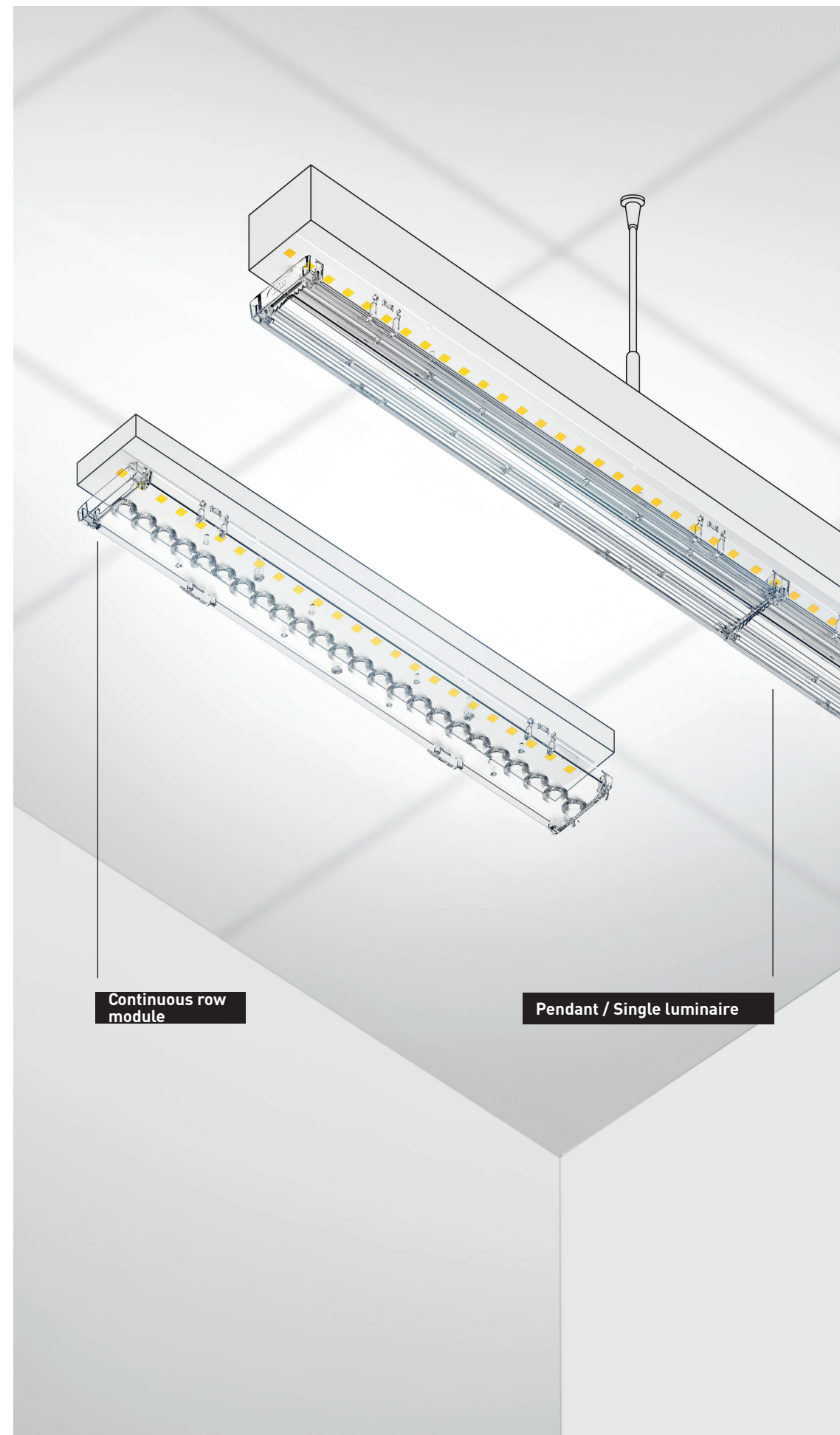
The BJB 35.301 series of pitch-independent optics provides **flexibility** for luminaire manufacturers to **select LED modules** ranging from 20 - 24 mm in width.

Whether using single fixtures or continuous rows of luminaires, BJB optics provide precise lighting performance, essential for meeting the requirements of retail and commercial applications. BJB designed the Single-Row Optics with 1-Click Fixing for optimal performance in the lighting of aisles, corridors, parking garages, warehouses, workstations, and general lighting in supermarkets.

Examples of upper UGR_L-limits

Reading, Writing, Class rooms, Computer work, Controll work	≤ 19
Work in industry and craft, Reception	≤ 22
Rough works, Stairs	≤ 25
Corridors	≤ 28

Source: DIN EN 12464-1





Optics 35.324: Pitch-dependent Minimale glare

The 35.324 single-row linear optics are designed for the Philips Fortimo LED Strip OC* board from Signify. Thanks to the single lens design and micro-structured surface as well as lateral eroded structure they are suitable for all applications where optimal light and minimal glare are important. The microstructure surface creates a homogeneous light appearance with reduced COA (Color of angle). The eroded structures on the sides also ensure a harmonious overall aesthetic.



Highlights at a glance

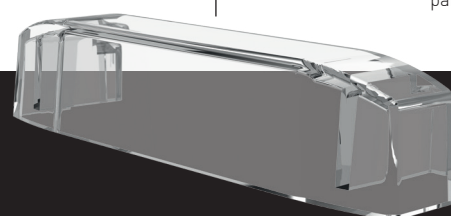
- 1-Click fixing for fast assembly
- Low glare
- Wide range of light distributions (30°, 60°, 90°, double asymmetric, single asymmetric)
- Suitable for SELV- and Non-SELV applications
- For use with Philips Fortimo LED Strip OC modules
- Optimal light output
- Slot and key system allows for easy alignment in rows
- Identical end caps on both sides



NEW!
IDENTICAL END
CAPS ON
BOTH SIDES

End cap

part no. 35.903.-304



*[OC = Optic Compliant]

Optik 35.301: Pitch-independent Flexible choice of modules

The single-row, flat optics of the 35.301 series are suitable for LED boards with different LED spacing and open up numerous possibilities for directing the luminous flux and thus controlling brightness.

The 2D Fresnel lens structure ensures uniform light distribution regardless of the LED type or configuration. The 35.301 optics fit all common LED modules from 20 - 24 mm width according to Zhaga Book 7 and are optimized for a module thickness of 1.6 mm.

Highlights at a glance

- 1-Click fixing for fast assembly
- Wide range of light distributions (30°, 60°, 90°, double asymmetric, single asymmetric)
- Suitable for SELV- and Non-SELV applications
- For use with 20 - 24 mm wide LED modules according to Zhaga Book 7
- Optimal light output
- Slot and key system allows for easy alignment in rows
- Identical end caps on both sides

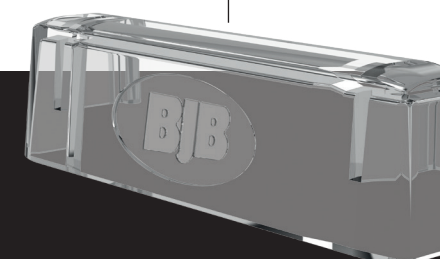


NEW!
IDENTICAL END
CAPS ON
BOTH SIDES

End cap

On request customer logo or brand can be applied.

part no. 35.903.-301



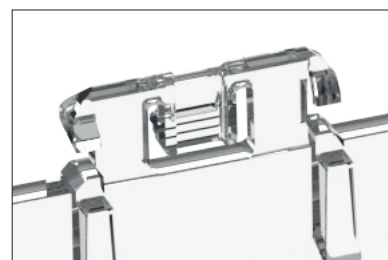
Quick & safe assembly! With new fixing system

Until now, the assembly of optics and circuit boards required at least two work steps and additional fastening elements or screws. BJB's 1-click optics offer a dramatically improved alternative. With our new system, LED modules and optics are assembled without tools or screws in one single work step. Our optics are equipped with **centering pins and spacers** that align the optics correctly on the board and firmly connects them. Both the 35.324 series and the 35.301 series use identical end caps on the left and right, which further facilitates assembly and production.

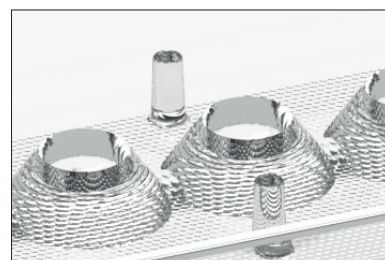
Our single-row optics score points not only with **quick assembly**, but also for very **secure fastening**. Once the board and optics have been assembled, the locking mechanism can only be released with the help of tools from the bottom side. If several optics are mounted in a row, the Key & Slot System ensures gapless joints.

This feature provides added protection against accidental contact qualifying the optics for NON-SELV applications.

Another advantage of our new optics family is their versatility. The position of the fixing elements are designed in accordance to the fixing points outlined in Zhaga Book 7. As all optics have the same fixing mechanism, multiple optics will fit one housing, allowing for great flexibility while using one housing platform.



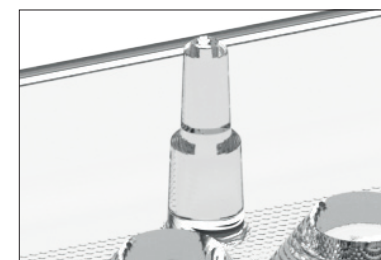
Snap-in fixing



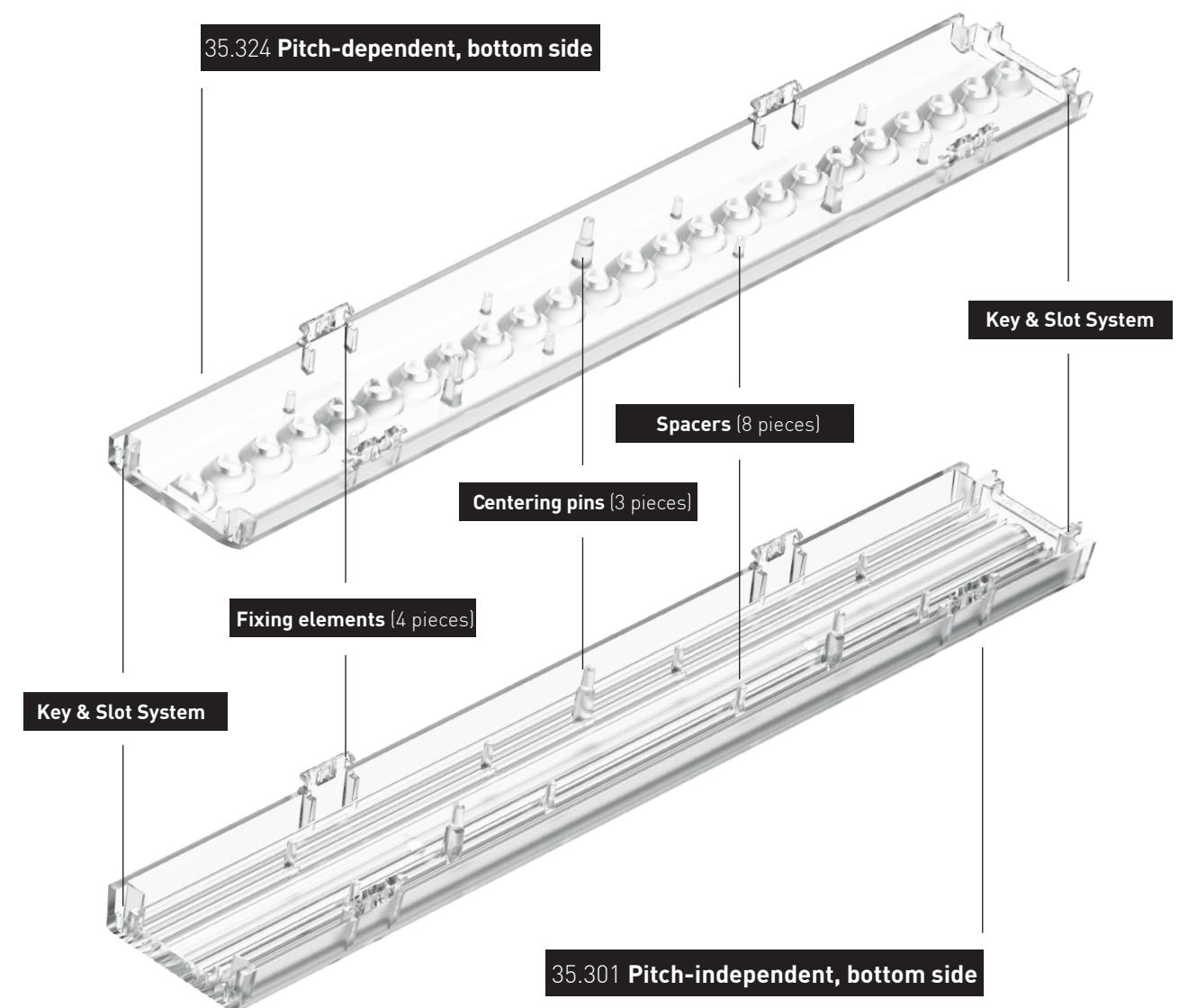
Spacer



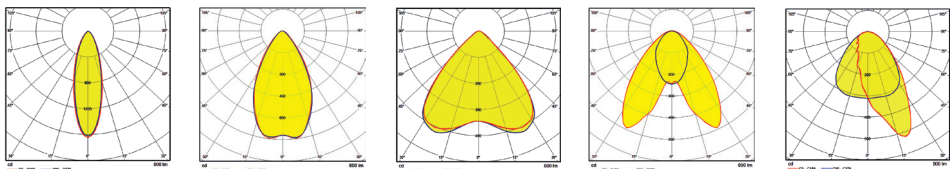
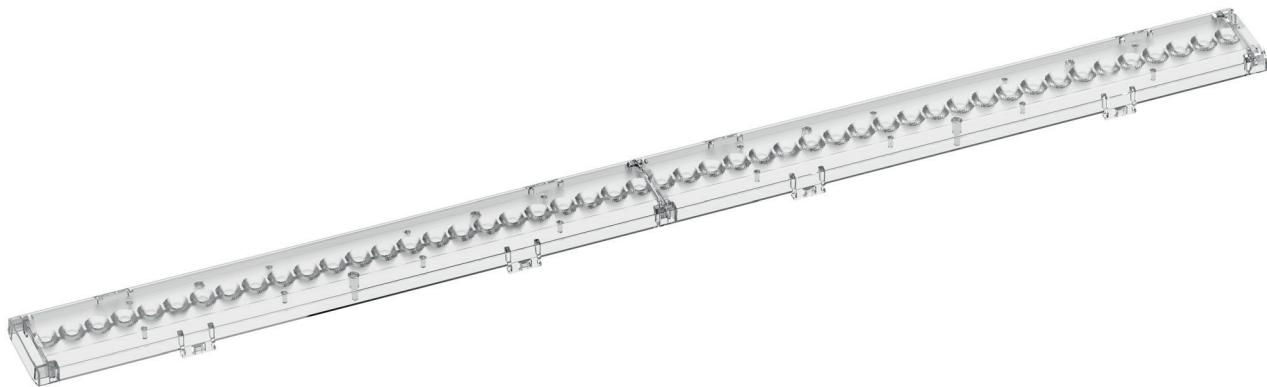
Key & Slot System



Centering pin



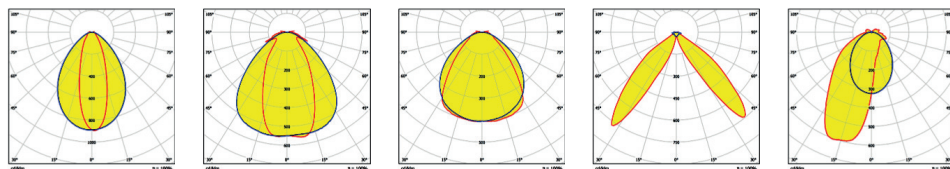
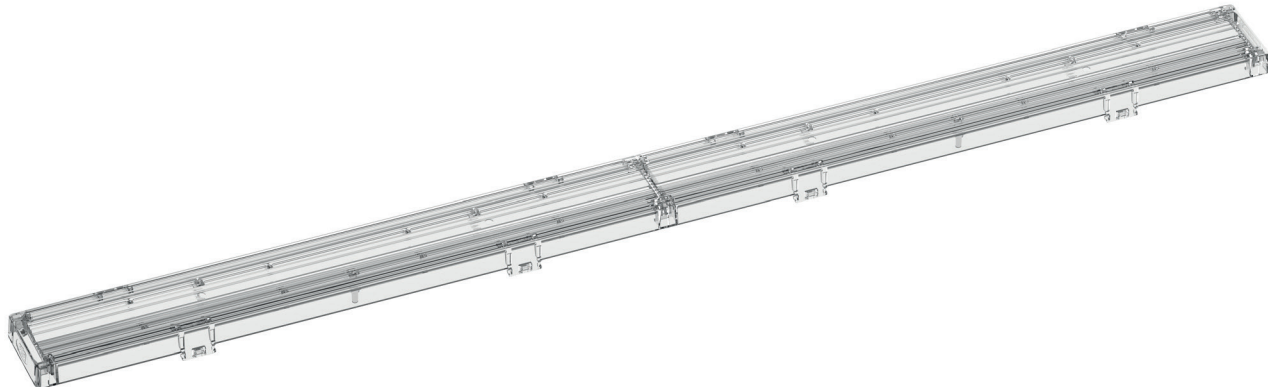
35.324 Pitch-dependent



part no.	35.324.1001	35.324.1002	35.324.1003	35.324.1004	35.324.1005
Dimensions (mm)	283 x 40				
Type of fixing	Snap-in fixing: luminaire metal sheet (0.5 - 1.0 mm) and aluminium profile				
LED module	Philips Fortimo LED Strip OC				
Material	PC				
Colour / Surface	clear with microstructured surface				
Light distribution FWHM *	30°	60°	90°	double asymmetric	single asymmetric
UGR *	<19	<19	<20	na	na
Efficiency *	94,8 %	96,4 %	96,3 %	93,5 %	91,7 %

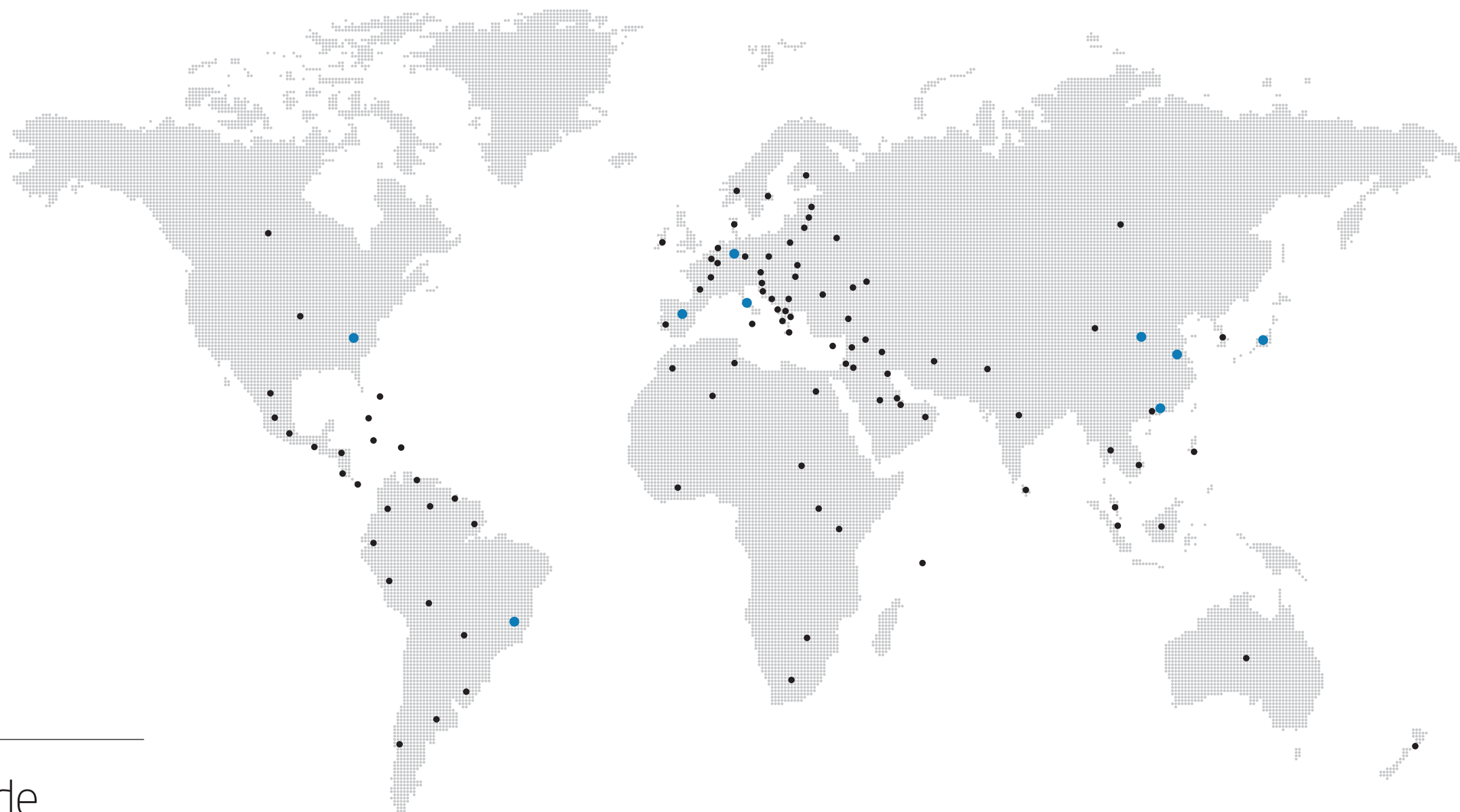
* UGR @ 800 lm / foot across - values and light distribution can change with series production or the type of LED used. Measurements are based on prototypes.

35.301 Pitch-independent



part no.	35.301.1028	35.301.1029	35.301.1030	35.301.1031	35.301.1032
Dimensions (mm)	280 x 40				
Type of fixing	Snap-in fixing: luminaire metal sheet (0.5 - 1.0 mm) and aluminium profile				
LED module	2835, 3014, 3030, 5630				
Material	PC				
Colour / Surface	clear				
Light distribution FWHM **	30°	60°	90°	double asymmetric	single asymmetric
Effizienz **	89 %	85 %	88 %	92 %	85 %

** Values can change depending on the LED type used.



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