

LINEAR OPTICS 3R FOR SMD COMFORT-B



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Due to the light distributions, the highly efficient optics made of PMMA offer diverse possibilities for use in the application fields of retail, corridor and shelf lighting as well as for industrial and hall lighting (IP40).

The individual lenses are suitable for 3030 and 2835 midpower LEDs from leading LED manufacturers. Typical LED types for use with these optics are Cree JE2835, Seoul STW8C2PB, STW8C12C, STW9C2PB (including Sunlike LEDs), Samsung LM301B, Nichia 757 (also as Tuneable White).

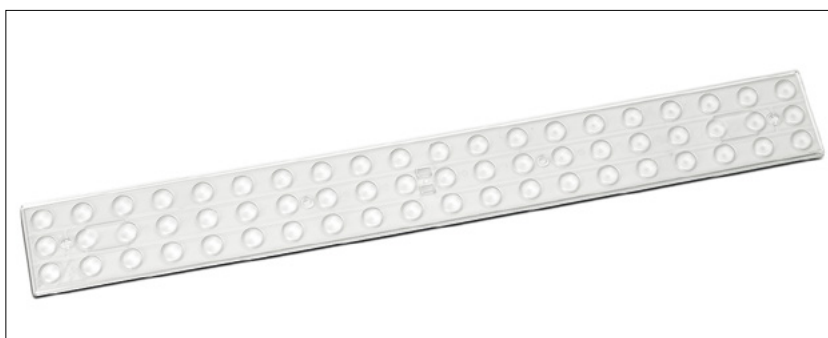
The frosted optics have a very low colour deviation across the light distribution angle (CLC) and low UGR value. The length of the optics of 500 mm is perfect to realise luminaire louvre dimensions of 1,500 mm.



Linear Optics 3R for SMD Comfort-B

- **EXCELLENT GLARE-FREE OPTICS DESIGN**
- **OPTICAL EFFICIENCY: UP TO 95%**
- **VARIANTS WITH UGR AND CLC OPTIMISED LIGHT DISTRIBUTION AVAILABLE**
- **UV-RESISTANT**

Linear optics 3R for SMD Comfort-B 60 single lenses 500 mm IP40



Technical notes

- Material: PMMA, clear
- Max. allowed temperature: 80 °C
- Dimensions (LxWxH): 500x62x4.2 mm
- Fixation with flat or cylinder head screws (M4) or with fixing expanding rivets
- Max. torque: 1.2 Nm (M4)

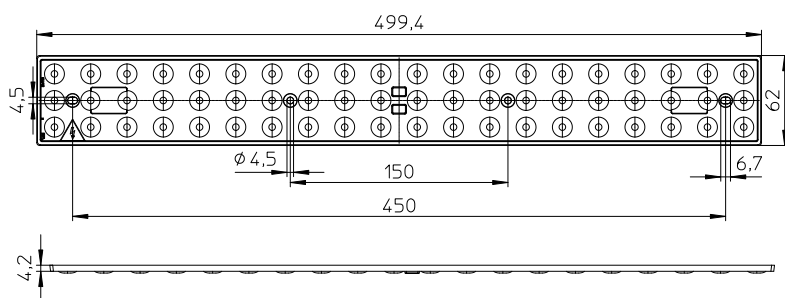


Lighting properties

- CLC (constant light colour): very low colour temperature deviations over beam angle
- UGR: optimized glare reduction

| Light distribution | Type | Ref. No. | Lighting properties | Material | Efficiency* % | Degree of protection | Weight g | Packaging unit pcs. |
|--------------------|-------|---------------|---------------------|----------|---------------|----------------------|----------|---------------------|
| Extra Wide 110° | 96304 | 571094 | UGR, CLC | clear | 95 | IP40 | 74.5 | 160 |
| Wide 90° | 96300 | 569527 | UGR | clear | 95 | IP40 | 76.3 | 160 |
| Medium 60° | 96303 | 571093 | UGR | clear | 95 | IP40 | 87.1 | 140 |
| High Rack | 96302 | 571092 | UGR | clear | 95 | IP40 | 90.5 | 140 |
| Retail SYM | 96301 | 569528 | UGR, CLC | clear | 95 | IP40 | 87.2 | 140 |
| Diffuse 110° | 96304 | 570378 | CLC | diffuse | 94 | IP40 | 72.4 | 160 |

* Measured on a white luminaire sheet



The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

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Typ. light distributions with VS LED modules (with Cree JE2835)

At www.vossloh-schwabe.com you will find further light distribution curves with other LED types as well as all data in .ldt and .ies format for download.



Suitable VS LED modules

Linear optics 3R for SMD Comfort-B 60 single lenses 500 mm IP40 are suitable for 3-row modules LED Line SMD Comfort-B 3R.

| VS LED modules | Module type |
|---------------------------|-------------|
| LED Line SMD Comfort-B 3R | VU-M-619-BC |

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Fixing expanding rivets for optics together with the LED PCB

For screwless fastening of optics type 963 together with the LED PCB to the luminaire sheet

Vibration resistant version

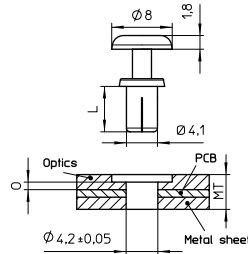
Material: PA, natural (UL-94 V-2)

For PCB fixing hole diameter: $\varnothing 4.1$ mm

The clamping range (MT) is a sum of PCB thickness (PCB) + optics thickness (O) + luminaire sheet thickness (Metal sheet).

Weight: 0.2 g

Packaging unit: 1000 pcs.



| Type | Ref. No. | For clamping range (MT) mm | Length (L) mm |
|-------|---------------|----------------------------|---------------|
| 98004 | 569408 | 4.5–5.5 | 7 |
| 98001 | 562557 | 5.5–6.5 | 8 |
| 98002 | 562558 | 6.5–7.5 | 9 |
| 98003 | 562559 | 7.5–8.5 | 10 |

Material thickness of VS optics

| Optics type | Material thickness (O) (mm) |
|-------------|-----------------------------|
| 963 | 2.4 |

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