

LINEAR OPTICS 1R FOR SMD W2



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Thanks to their microprismatic surfaces and colour constancy (CLC), the optics made of high-quality PMMA offer very homogeneous light and a pixel-free appearance. They are ideally suited for use in continuous light bands and profile luminaires in offices, shops, industry and architecture.

Versions with single lenses and good glare control values (UGR optimized) as well as tunnel lenses for a variable number of LEDs are available.

The single lenses are suitable for 3030 and 2835 midpower LEDs of common LED manufacturers. Typical LED types for use with this lens are Seoul STW8C2PB, STW8C12C, STW9C2PB (including Sunlike LEDs), Samsung LM301B, Nichia 757 (also as Tuneable White).

The extended light emission area (ELA) creates a radiant optic with uniform luminance on the optic surface, reducing glare.

For faster and easier installation, the optics can be mounted without screws. This is an elegant solution for your luminaire. Furthermore, index pins allow mounting and positioning of the VS module LED Line SMD W2 at the same time.

Linear Optics 1R for SMD W2

- **HIGH-QUALITY OPTICAL MATERIAL**
- **OPTICAL EFFICIENCY UP TO 96%**
- **OPTICS WITH EXTENDED LUMINOUS AREA (ELA)**
- **OPTICS WITH CONSTANT LIGHT COLOUR OVER BEAM ANGLE (CLC)**
- **UGR OPTIMIZED OPTICS**
- **SCREWLESS CLIP FIXING**
- **ZHAGA-COMPLIANT DIMENSIONS**



Product video



Linear Optics 1R
for SMD W2
24 Single Lenses
280mm IP20/40

Technical Notes

- For 3030 and 2835 midpower LEDs of common LED manufacturers
- Material: PMMA
- Max. allowed temperature: 80 °C
- Dimensions (LxVxH): 279x43x11.6 mm
- Clip fixation for metal sheets with wall thickness of 0.6–0.8 mm or aluminium profiles
- End caps for luminaires degree of protection IP40



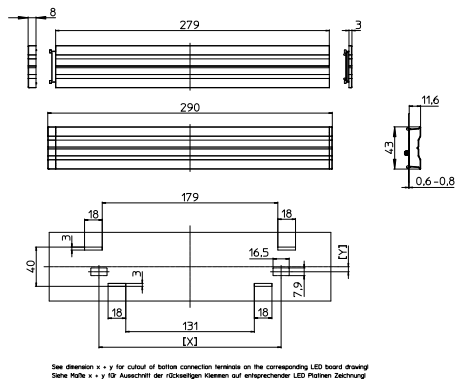
Lighting properties

- ELA (extended luminous area): light emission over the entire surface of the optics
- CLC (constant light colour): very low colour temperature deviations over beam angle
- UGR: optimized glare reduction

Light distribution	Type	Ref. No.	Lighting properties	Light transmission	Efficiency %	Weight g	Packaging unit pcs.
Wide 90°	97050	569760	ELA, CLC	clear	93	56	120
Medium 60°	97053	569606	ELA, CLC	clear	93	54	120
Medium 60° UGR	97057	569770	ELA, UGR	clear	96	55	120
Retail SYM1	97051	570528	ELA, CLC	clear	93	55	120
Retail ASYM	97054	570527	ELA, CLC	clear	93	55	120
Diffuse 100°	97050	571598	ELA, CLC	diffuse	90	56	120

* Measured on a white luminaire sheet

572526



567197

See dimension x - y for colour of bottom connection terminals on the corresponding LED board drawing
Siehe Maße x - y für Ausschneit der r0ckseitigen Kleinen auf entsprechender LED Platinen Zeichnung

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

Linear Optics 1R for SMD W2 48 Single Lenses 560mm IP20/40

Technical Notes

- For 3030 and 2835 midpower LEDs of common LED manufacturers
- Material: PMMA
- Max. allowed temperature: 80 °C
- Dimensions (LxVxH): 559x43x11.6 mm
- Clip fixation for metal sheets with wall thickness of 0.6–0.8 mm or aluminium profiles
- End caps for luminaires degree of protection IP40

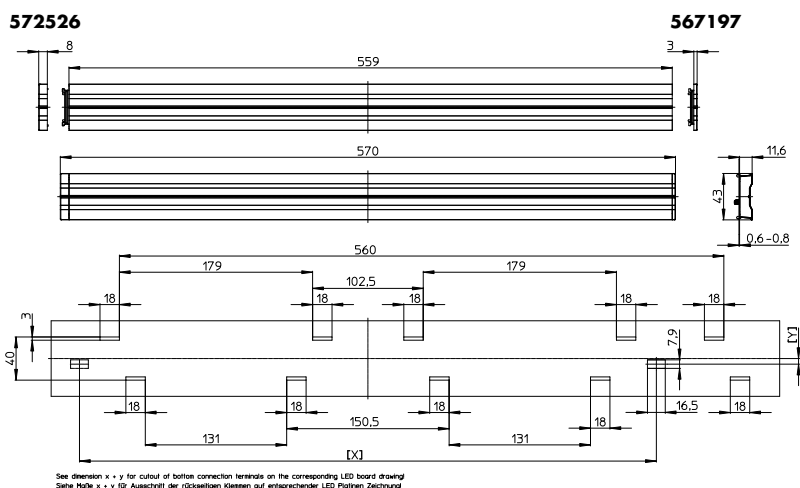


Lighting properties

- ELA (extended luminous area): light emission over the entire surface of the optics
- CLC (constant light colour): very low colour temperature deviations over beam angle
- UGR: optimized glare reduction

Light distribution	Type	Ref. No.	Lighting properties	Light transmission	Efficiency %	Weight g	Packaging unit pcs.
Extra Wide 110°	97005	568236	ELA, CLC	clear	93	124	72
Wide 90°	97000	568075	ELA, CLC	clear	93	115	72
Wide 90° SYM	97010	571980	ELA, CLC	clear	96	106	72
Medium 60°	97003	568238	ELA, CLC	clear	93	107	72
Medium 60° UGR	97007	569721	ELA, UGR	clear	96	110	72
Narrow 30°	97002	568239	ELA, CLC	clear	93	104	72
Retail SYM 1	97001	568240	ELA, CLC	clear	93	108	72
Retail SYM 2	97001	568413	ELA, CLC	clear	93	108	72
Retail ASYM	97004	568237	ELA, CLC	clear	93	104	72
Diffuse 100°	97000	568412	ELA, CLC	diffuse	90	115	72
High Rack	97009	571979	ELA, UGR	clear	96	110	72

* Measured on a white luminaire sheet

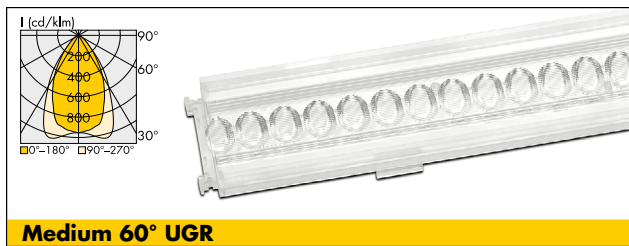
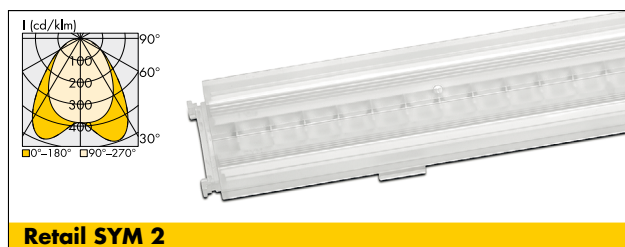
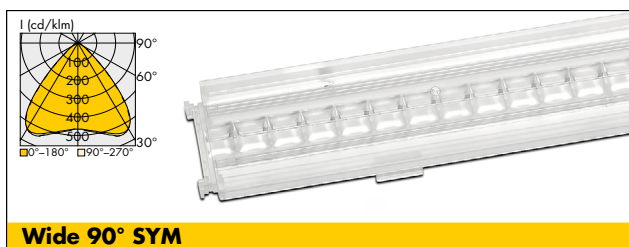
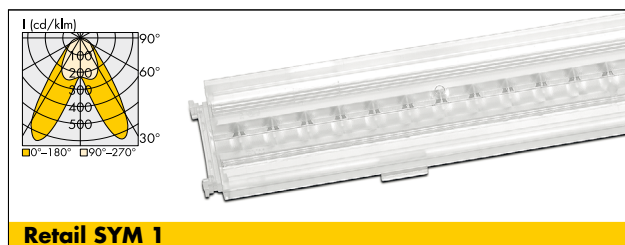
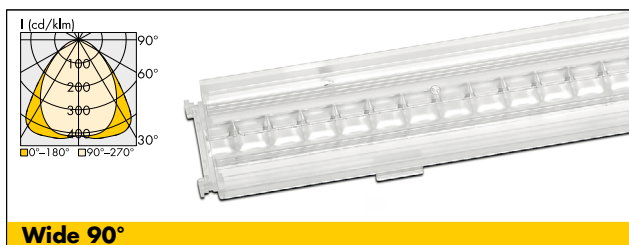
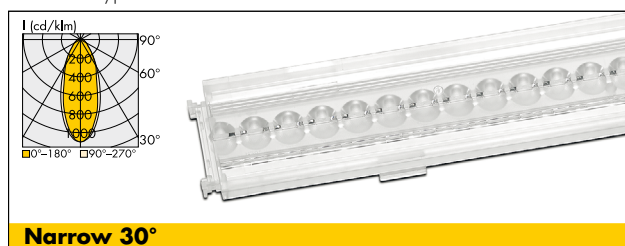
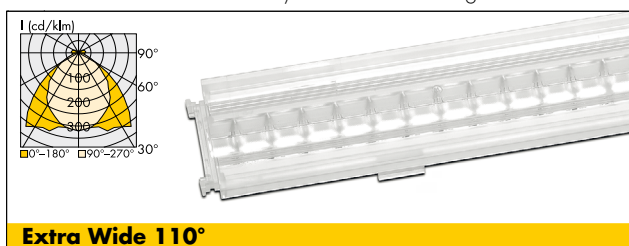


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Linear Optics 1R for SMD W2 24 Single Lenses 280mm IP20/40 and Linear Optics 1R for SMD W2 48 Single Lenses 560mm IP20/40

Typ. light distributions with VS LED modules (with Seoul STW8C2PB)

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 down-

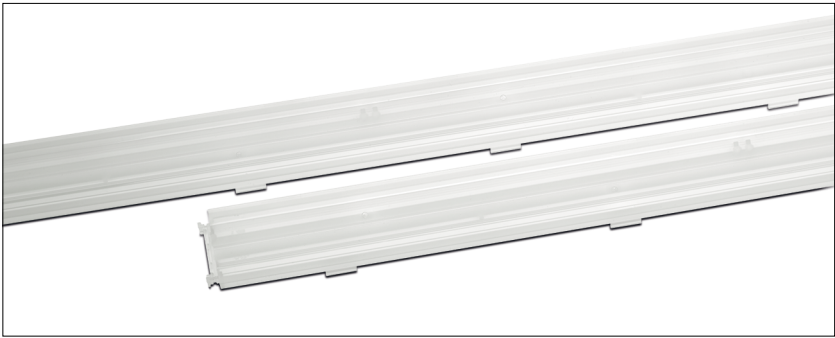


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Linear Optics 1R
for SMD W2
Tunnel Lens
560mm IP20/40

Technical Notes

- For 3030, 2835* and 5630* midpower LEDs of common LED manufacturers (*mounted lengthwise)
- Material: PMMA
- Max. allowed temperature: 80 °C
- Dimensions (LxVxH): 559x43x11.6 mm
- Clip fixation for metal sheets with wall thickness of 0.6–0.8 mm or aluminium profiles
- End caps for luminaires degree of protection IP40
- Optics with index pins are available for VS LED modules of the LED Line SMD W2 family.

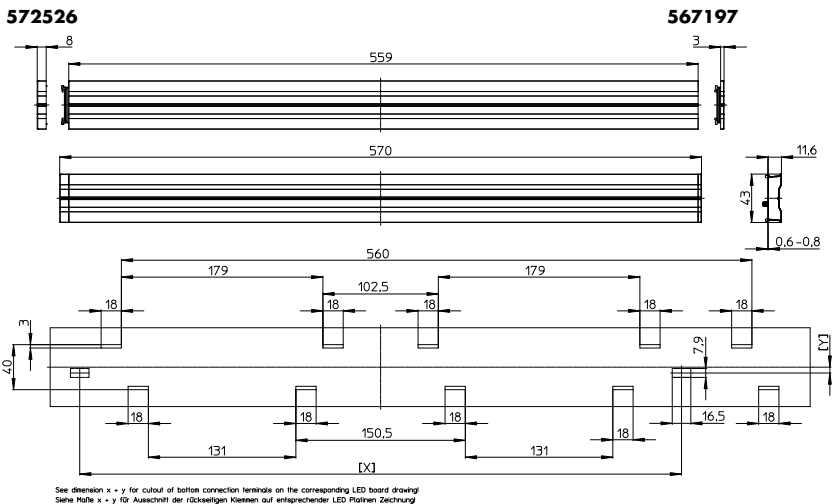


Lighting properties

- ELA (extended luminous area): light emission over the entire surface of the optics

Light distribution	Type	Ref. No.	Lighting properties	Index pins	Light transmission	Efficiency %	Weight g	Packaging unit pcs.
Diffuse 105°	97100	568618	ELA	yes	diffuse	90	116	72
Wide 90°	97100	568243	ELA	yes	clear	93	116	72
Medium 60°	97103	568246	ELA	yes	clear	93	115	72
Retail SYM 1	97101	568244	ELA	yes	clear	93	118	72
High Rack	97102	568245	ELA	yes	clear	90	107	72

* Measured on a white luminaire sheet

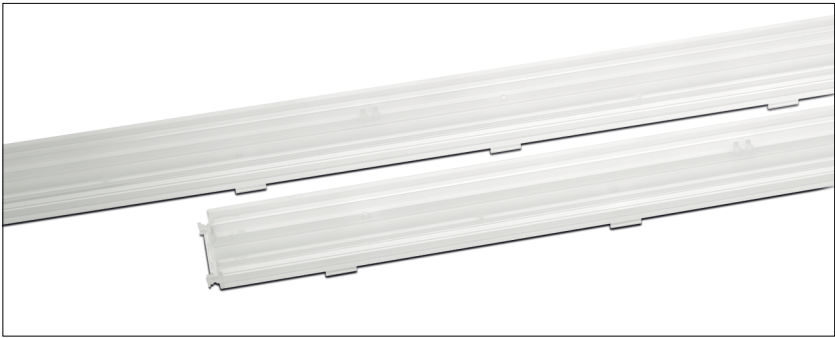


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Linear Optics 1R
for SMD W2
Universal Tunnel Lens
560mm IP20/40

Technical Notes

- For 3030, 2835* and 5630* midpower LEDs of common LED manufacturers (*mounted lengthwise)
- Material: PMMA
- Max. allowed temperature: 80 °C
- Dimensions (LxVxH): 559x43x11.6 mm
- Clip fixation for metal sheets with wall thickness of 0.6–0.8 mm or aluminium profiles
- End caps for luminaires degree of protection IP40
- SMD boards have to be attached separately and are additionally pressed on the index points by the optics.

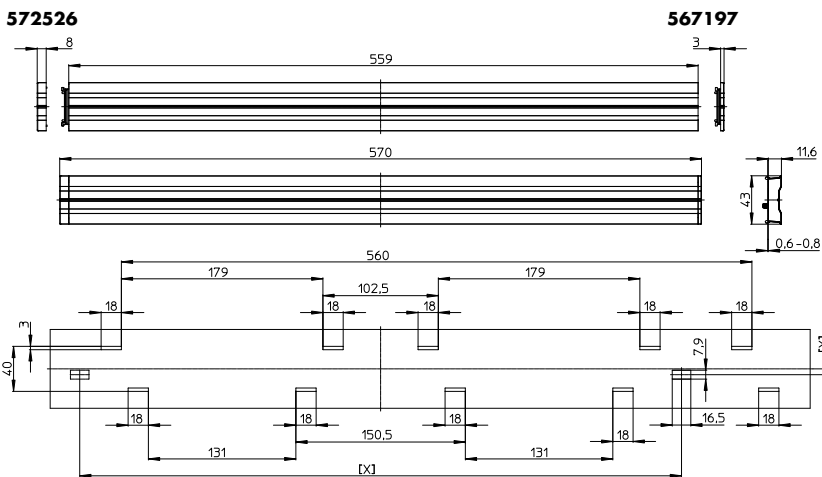


Lighting properties

- ELA (extended luminous area): light emission over the entire surface of the optics

Light distribution	Type	Ref. No.	Lighting properties	Index pins	Light transmission	Efficiency %	Weight g	Packaging unit pcs.
Diffuse 105°	96600	568617	ELA	no	diffuse	90	116	72
Wide 90°	96600	568608	ELA	no	clear	93	116	72
Medium 60°	96603	568611	ELA	no	clear	93	115	72
Retail SYM 1	96601	568609	ELA	no	clear	93	118	72
High Rack	96602	568610	ELA	no	clear	90	107	72

* Measured on a white luminaire sheet



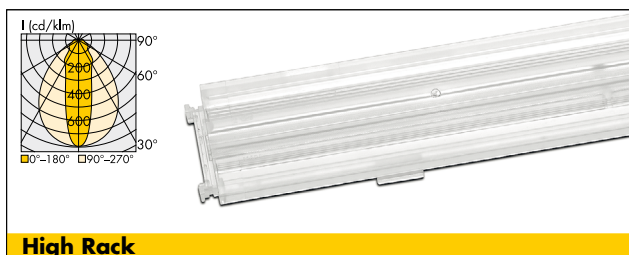
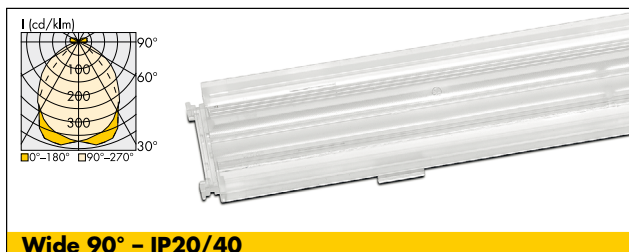
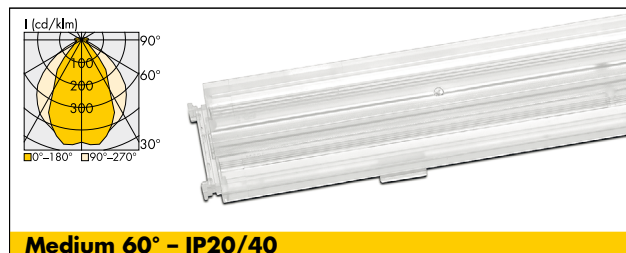
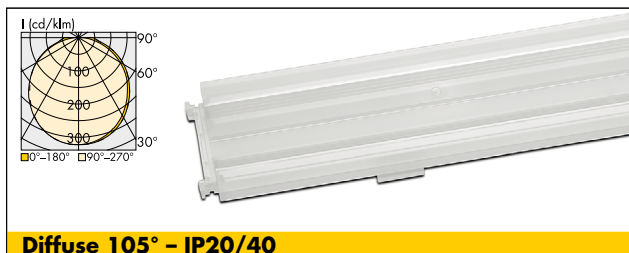
See dimension x + y for cutout of bottom connection terminals on the corresponding LED board drawing
Siehe Maße x + y für Ausschnitt der rückseitigen Kleinen auf entsprechender LED Platinen Zeichnung

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Linear Optics 1R for SMD W2 Tunnel Lens 560mm IP20/40 and Linear Optics 1R for SMD W2 Universal Tunnel Lens 560mm IP20/40

Typ. light distributions with VS LED modules (with Seoul STW8C2PB)

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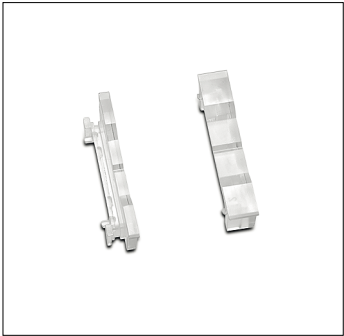
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End caps for linear optics 1R for SMD W2

Lateral attachment on the optics

Material: PC, clear or diffuse

End cap type	For optics type	Ref. No.	Material colour	Weight g	Packaging unit pcs.
Tongue side	970, 971, 966	572526	clear	1.85	162
Tongue side	970, 971, 966	572627	diffuse	1.85	162
Groove side	970, 971, 966	567197	clear	1.45	162
Groove side	970, 971, 966	568602	diffuse	1.45	162



Suitable VS LED modules

Linear optics 1R for SMD W2 are suitable for LED modules with bottom connection (BC) or small top connection (STC).

VS LED modules	Module type	Connection terminals		Optics type	
		BC	STC	Single lenses	Tunnel lenses
LED Line SMD W2 Gen. 4	WU-M-574-S2, WU-M-575-S2, WU-M-577-S2, WU-M-578-S2	BC	STC	yes	yes
	WU-M-576-S2, WU-M-579-S2	BC	–	–	yes
LED Line SMD W2 Gen. 5	WU-M-657, WU-M-658, WU-M-660, WU-M-661	BC	STC	yes	yes
	WU-M-659, WU-M-662	BC	STC	–	yes
LED Line SMD W2 Comfort	WU-M-624, WU-M-625, WU-M-626, WU-M-627	BC	STC	yes	yes
LED Line SMD W2 Comfort Gen. 2	WU-M-669, WU-M-670, WU-M-671, WU-M-672	BC	STC	yes	yes
LED Line SMD SELV Comfort	WU-M-646, WU-M-647	BC	STC	yes	yes

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