TOP 100
Top-Innovator 2021

FLASHAAR



NP Defiant-3



DATENBLATT
DATASHEET

FLASHAAR® – Wir machen Licht.
FLASHAAR® – We create light.

MADE IN **GERMANY**



RGB: 1289 lm/m* | 26 m per feed-in (dimmed**)

NauticProfil® Defiant-3

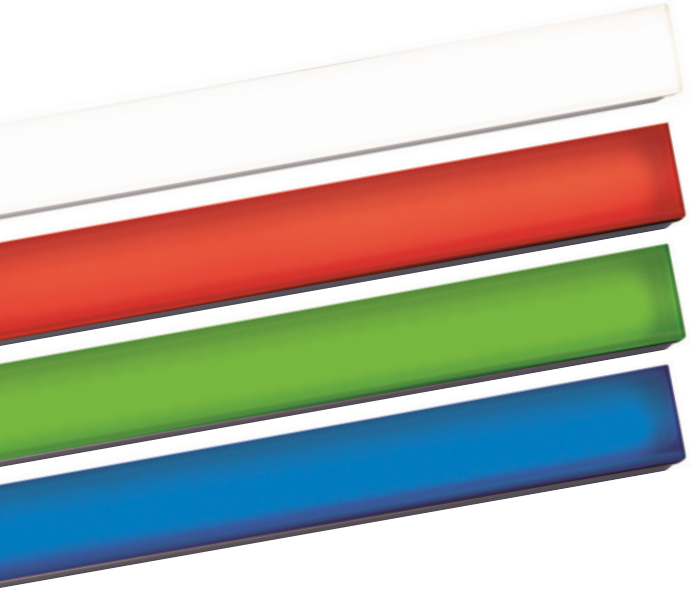
RGB-LEDs schaffen ein brilliantes Farbspiel sowie ein überzeugendes RGB-Weiß

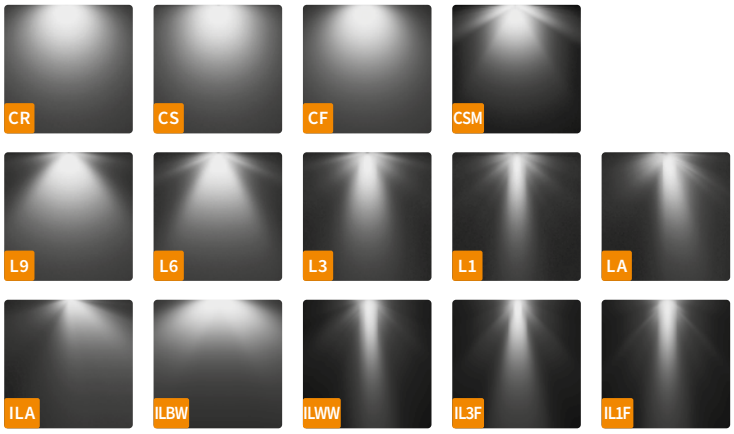
RGB LEDs create a brilliant display of colours as well as a stunning RGB white

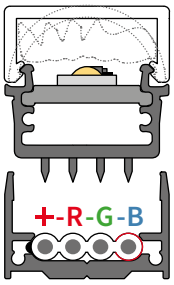
Der Leuchteneinsatz **NauticProfil® Defiant-3** eröffnet mit seinen hochwertigen RGB-LEDs vielfältige Möglichkeiten für Effekt- und dekorative Beleuchtung. Er erzeugt beeindruckende Farbwechsel und überzeugt gleichzeitig mit einem erstklassigen RGB-Weiß.
Dank der speziell entwickelten Geometrie und präzisen Anordnung der LEDs wird Weiß in hoher Qualität dargestellt.
Der besonders geringe LED-Punktabstand sorgt für eine gleichmäßig leuchtende Lichtaustrittsfläche – ohne sichtbare Lichtpunkte. Die eingesetzte LED-Technologie verhindert zudem ein Aufbrechen der Farben beim Einsatz von Linearlinsen.
Das Ergebnis ist ein präzises, homogenes Lichtbild mit exzellenter Farbwiedergabe – ideal für anspruchsvolle Architektur-, Fassaden- und Akzentbeleuchtung.

The **NauticProfil® Defiant-3** lighting module, with its high-quality RGB LEDs, opens up a wide range of possibilities for effect and decorative lighting. It produces impressive colour changes whilst also delivering a first-class RGB white.
Thanks to the specially developed geometry and precise arrangement of the LEDs, white is rendered to a high standard. The particularly small spacing between the LEDs ensures an evenly illuminated light-emitting surface – with no visible light spots.
The LED technology used also prevents colour distortion when linear lenses are employed.
The result is a precise, uniform light pattern with excellent colour rendering – ideal for sophisticated architectural, façade and accent lighting.

Stimmungslicht für Zuhause, Hotels und Wellnessbereiche
mood lighting for home, hotels and wellness areas







- NP cover / lenses
- NP board
- NP base profile G1
- NP mounting profile (e.g. NP-S1)
- pin configuration
- NP flat cable

48V DC | g/m 300 | -20 +45 | IP40 — characteristics

PWM dimmable — dimming

IP65 | IK10 | RAL optional — optional

mounting

* Alle Angaben zum Lumenstrom beziehen sich auf das Leuchtmittel. In Kombination mit Abdeckungen/Linsen kommt es zu materialbedingtem Lichtverlust.
* All information about the luminous flux refers to the light source. In combination with covers/lenses it comes to material-related light loss.
** Nur zugelassen für DALI DT8! Only approved for DALI DT8!

Artikelnummer
item number

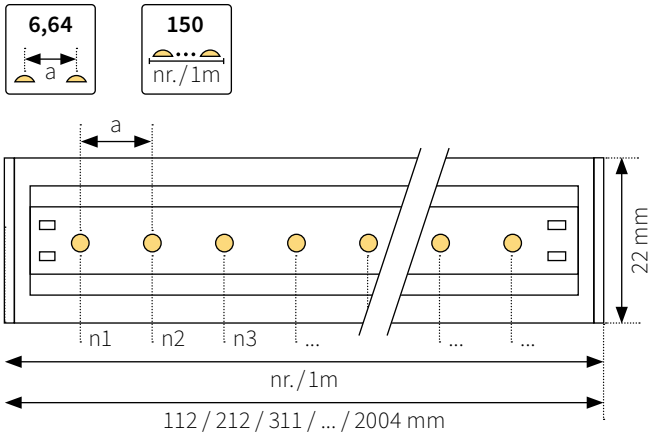
NP/L3C/G1/22C / L3C/G1/ 112 / G1/ ALA / RGB / CR W

Technische Daten
technical data

nominal voltage:	**48 V DC** (Range: 46 to 49,5 V DC)
nominal wattage:	**1 x 20,2 W/m (R) / 2 x 16,8 W/m (G, B)**
LED service life:	L80/B10 > 75 000 h
dimmable:	pulse width modulation (PWM)
length dividing matrix:	100 mm
LED pitch:	6,64 mm, 150 LEDs/m
max. length per feed-in:	L(max) at 49,5 V DC = 26 m (488 W/CH)*

***Achtung!** Der Betrieb von RGB gleichzeitig auf 100% ist nicht zulässig! Auf ausreichend Kühlung ist zu achten.
Max. 24 W/m Gesamtleistung (1CH entspricht 16,4 W/m (G,B), 19,2 W/m (R))
***Attention!** Operating RGB light colours at 100 % at the same time is not permitted! Sufficent cooling must be ensured.
Maximum total output 24 W/m (1CH conform to 16,4 W/m (G,B), 19,2 W/m (R))

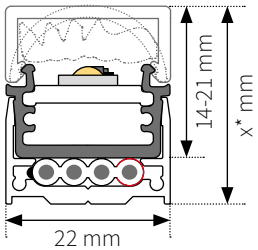
Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %.
All optical and electrical data have a tolerance of ±10 %.



Basisprofil
base profile

Das Basisprofil G1 ist mit allen NP-Montageprofilen von FLASHAAR® per Plug&Play kombinierbar. Es ist in den Farben Aluminium (ALA) und Schwarz (BA) eloxiert erhältlich.

The base profile G1 can be combined with all NP mounting profiles from FLASHAAR® by Plug&Play. It is available in the colours aluminium (ALA) and black (BA) anodised.



G1/ALA (Standard)
G1/BA

*Leuchtenhöhe abhängig vom Montageprofil (21 - 168 mm)
*Luminaire height depending on mounting profile (21 - 168 mm)

Lichtwellenlänge und Lumenstrom
light wavelength and luminous flux

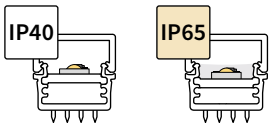
	R	G	B
Lichtwellenlänge light wavelength	620 nm	525 nm	470 nm
Lumenstrom typ.* luminous flux typ.*	max. 988 lm/m	max. 2172 lm/m	max. 630 lm/m

* Alle Angaben zum Lumenstrom beziehen sich auf das Leuchtmittel. In Kombination mit Abdeckungen /Linsen kommt es zu materialbedingtem Lichtverlust.
All luminous flux values refer to the light source. When used with covers/lenses, material-related light losses occur.

IP-Schutzarten und Ausführungen
IP protection ratings and variants

Je nach Anwendung gibt es verschiedene Schutzarten für unsere LED-Leuchteneinsätze. Als Standard bieten wir unsere Leuchten in IP40 an. Für die Schutzart IP65 vergießen wir unsere Leuchten mit einem hochwertigen transparenten Polyurethan-Verguss (PU-Verguss), frei von störenden Mikroblasen.

Depending on the application, there are different protection types for our LED light inserts. As standard, we offer the luminaires in IP40. For protection type IP65, we cast our luminaires with a high-quality transparent polyurethane encapsulation (PU encapsulation) free of undesirable microbubbles.



Übersicht Standardlängen & Wattagen
overview standard lengths & wattages

IP40, IP65					
product-nr.	**L (mm)***	**Rot Watt****	**Grün Watt****	**Blau Watt****	**R+G+B Watt****
NP/L3C/G1/22C/L3C/G1/0112/###/###	**112**	2,03 W	1,69 W	1,69 W	5,40 W
NP/L3C/G1/22C/L3C/G1/0212/###/###	**212**	4,06 W	3,37 W	3,37 W	10,80 W
NP/L3C/G1/22C/L3C/G1/0311/###/###	**311**	6,08 W	5,06 W	5,06 W	16,20 W
NP/L3C/G1/22C/L3C/G1/0411/###/###	**411**	8,11 W	6,75 W	6,75 W	21,61 W
NP/L3C/G1/22C/L3C/G1/0510/###/###	**510**	10,14 W	8,43 W	8,43 W	27,01 W
NP/L3C/G1/22C/L3C/G1/0610/###/###	**610**	12,17 W	10,12 W	10,12 W	32,41 W
NP/L3C/G1/22C/L3C/G1/0710/###/###	**710**	14,20 W	11,81 W	11,81 W	37,81 W
NP/L3C/G1/22C/L3C/G1/0809/###/###	**809**	16,22 W	13,49 W	13,49 W	43,21 W
NP/L3C/G1/22C/L3C/G1/0909/###/###	**909**	18,25 W	15,18 W	15,18 W	48,61 W
NP/L3C/G1/22C/L3C/G1/1008/###/###	**1008**	20,28 W	16,87 W	16,87 W	54,02 W

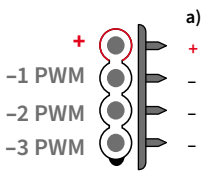
IP40					
product-nr.	**L (mm)***	**Rot Watt****	**Grün Watt****	**Blau Watt****	**R+G+B Watt****
NP/L3C/G1/22C/L3C/G1/1108/###/###	**1108**	22,31 W	18,55 W	18,55 W	59,42 W
NP/L3C/G1/22C/L3C/G1/1208/###/###	**1208**	24,34 W	20,24 W	20,24 W	64,82 W
NP/L3C/G1/22C/L3C/G1/1307/###/###	**1307**	26,37 W	21,93 W	21,93 W	70,22 W
NP/L3C/G1/22C/L3C/G1/1407/###/###	**1407**	28,39 W	23,61 W	23,61 W	75,62 W
NP/L3C/G1/22C/L3C/G1/1506/###/###	**1506**	30,42 W	25,30 W	25,30 W	81,02 W
NP/L3C/G1/22C/L3C/G1/1606/###/###	**1606**	32,45 W	26,99 W	26,99 W	86,43 W
NP/L3C/G1/22C/L3C/G1/1706/###/###	**1706**	34,48 W	28,67 W	28,67 W	91,83 W
NP/L3C/G1/22C/L3C/G1/1805/###/###	**1805**	36,51 W	30,36 W	30,36 W	97,23 W
NP/L3C/G1/22C/L3C/G1/1905/###/###	**1905**	38,53 W	32,05 W	32,05 W	102,63 W
NP/L3C/G1/22C/L3C/G1/2004/###/###	**2004**	40,56 W	33,73 W	33,73 W	108,03 W

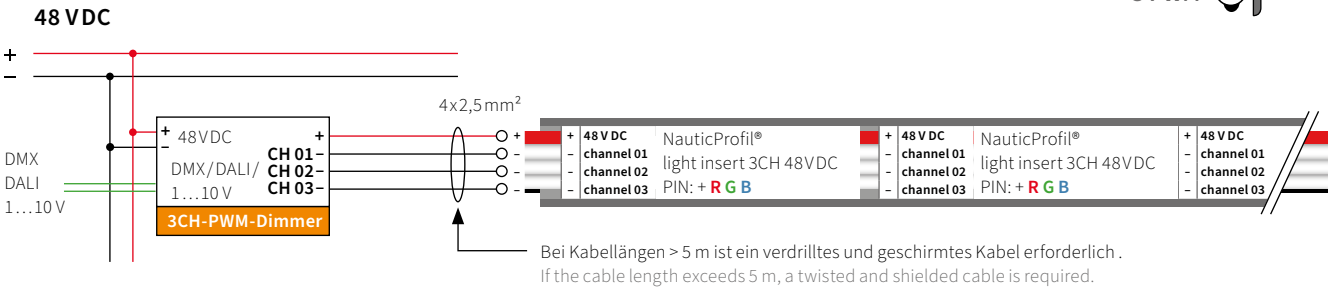
***Achtung!** Bei Leuchten der Länge > 1m werden wegen der hohen Leistung Piercing-Kontakte (PIN) in beiden Endkappen verbaut. **Leistungsangaben ±10 %
Im Außenbereich (IP65) ist maximal ein Leuchteneinsatz in der Lange von 112 mm bis 1008 mm realisierbar.
***Attention!** For luminaires of length > 1m, piercing contacts (PIN) are installed in both end caps due to the high power. **Performance data ±10 %
In outdoor areas (IP65), a maximum of one luminaire insert can be manufactured in lengths from 112 mm to 1008 mm.

Verdrahtungsschemata
wiring diagrams

WD/L/3CH/48V/1D/PWM

NP-Leuchteneinsätze 3CH mit kanalspezifischer PIN-Belegung, 3 Kanal (RGB), 48 V DC, Betrieb mit einem 3-Kanal-Dimmer, PWM-dimmbar
NP light inserts 3CH with channel-specific PIN configuration, 3 channel (RGB), 48 V DC, operates with one 3-channel dimmer, PWM dimmable





Bei Kabellängen > 5 m ist ein verdrilltes und geschirmtes Kabel erforderlich .
If the cable length exceeds 5 m, a twisted and shielded cable is required.

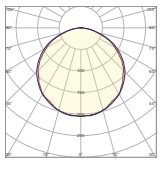
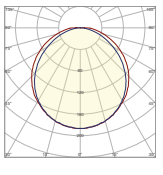
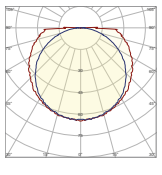
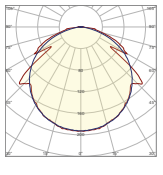
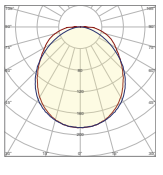
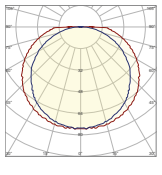
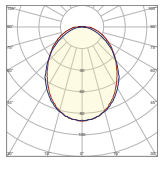
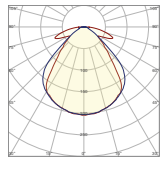
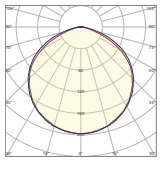
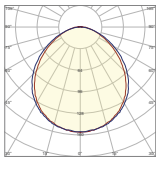
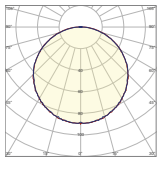
Achtung! Strombelastbarkeit bei gemeinsamen + Pol im Flachbandkabel **≤ 20 A**.
Attention! Maximum current capacity with common + pole in the flat cable **≤ 20 A**.

* Standard PIN-Belegung ist + – – – (WD/L/3CH/48V/1D/PWM) / Weitere Verdrahtungsschemata in unserem aktuellen Katalog.
standard pin layout is + – – – (WD/L/3CH/48V/1D/PWM) / Further wiring diagrams can be found in our current catalogue.

Kanäle RGB – Lichtverteilungskurven mit verschiedenen Abdeckungen NP/L3C/G1/22C

channels RGB – light distribution curves with different covers NP/L3C/G1/22C

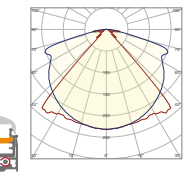
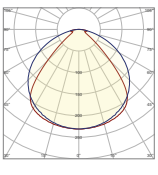
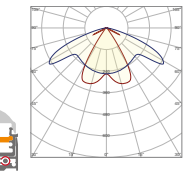
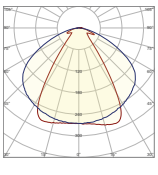
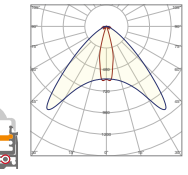
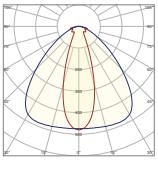
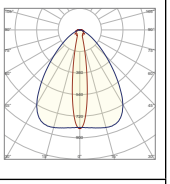
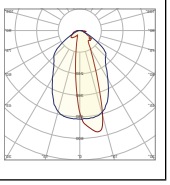
IP40

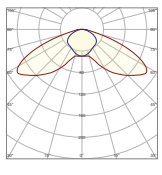
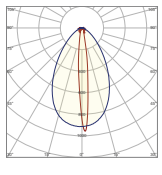
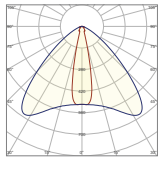
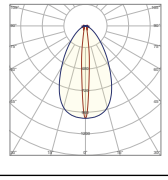
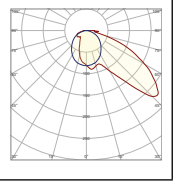
cover	T transparent	F frosted	W white	G grey	M microprismatic
cover round 120° 120° CR	1197 lm/m 	1133 lm/m 	497 lm/m 		
cover square 120° 120° CS	1159 lm/m 	1057 lm/m 	573 lm/m 	420 lm/m 	930 lm/m 
cover flat 120° 120° CF	1121 lm/m 	818 lm/m 	560 lm/m 		

Kanäle RGB – Lichtverteilungskurven mit verschiedenen Linsen/Einschublinsen NP/L3C/G1/22C

channels RGB – light distribution curves with different lenses/insert lenses NP/L3C/G1/22C

IP40

lenses	T transparent	F frosted
lens 90° 90° L9	1159 lm/m 	1133 lm/m 
lens 60° 60° L6	1197 lm/m 	1133 lm/m 
lens 30° 30° L3	1095 lm/m 	1070 lm/m 
lens 15° 15° L1		1070 lm/m 
lens LAF-2 asymmetric 5° 10° LA		1070 lm/m 

lenses	T transparent IP40	F frosted IP65 PREMIUM
insert lens Batwing 120° ILBW CS	688 lm/m 	
insert lens Wallwasher asymmetric 15° ILWW CS	777 lm/m 	
insert lens 30° 30° IL3F CS	828 lm/m 	
insert lens 15° 15° IL1F CS	815 lm/m 	
insert lens ILAF asymmetric 60° ILA CS		637 lm/m 

Messwerte unterliegen den typischen Toleranzen. Andere Konfigurationen erhalten Sie auf Anfrage. Alle lichttechnischen Daten – vermessen im FLASHAAR® Lichtlabor – finden Sie unter flashaar.de im Download-Bereich. Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %.

Measured values are subject to the typical tolerances. Other configurations are available on request. All photometric data – measured in FLASHAAR's light laboratory – available at flashaar.de/en in the download area. All optical and electrical data have a tolerance of ±10 %.

Vollständige photometrische Messdaten für IP65 / IP65 Premium auf Anfrage. Full photometric measurement data for IP65 / IP65 Premium on request.

Kanal ROT – Lichtverteilungskurven mit verschiedenen Abdeckungen NP/L3C/G1/22C
channel red – light distribution curves with different covers NP/L3C/G1/22C

IP40

cover	T transparent	F frosted	W white	G grey	M microprismatic
cover round 120° 120° CR	929 lm/m	879 lm/m	385 lm/m		
cover square 120° 120° CS	899 lm/m	820 lm/m	445 lm/m	326 lm/m	721 lm/m
cover flat 120° 120° CF	869 lm/m	790 lm/m	435 lm/m		

Kanal ROT – Lichtverteilungskurven mit verschiedenen Linsen/Einschublinsen NP/L3C/G1/22C
channel red – light distribution curves with different lenses/insert lenses NP/L3C/G1/22C

IP40

lenses	T transparent	F frosted
lens 90° 90° L9	899 lm/m	879 lm/m
lens 60° 60° L6	929 lm/m	879 lm/m
lens 30° 30° L3	850 lm/m	830 lm/m
lens 15° 15° L1		830 lm/m
lens LAF-2 asymmetric 5° 10° LA		830 lm/m

lenses	T transparent IP40	F frosted IP65 PREMIUM
insert lens Batwing 120° ILBW CS	534 lm/m	
insert lens Wallwasher asymmetric 15° ILWW CS	603 lm/m	
insert lens 30° 30° IL3F CS	642 lm/m	
insert lens 15° 15° IL1F CS	632 lm/m	
insert lens ILAF asymmetric 60° ILA CS		494 lm/m

Messwerte unterliegen den typischen Toleranzen. Andere Konfigurationen erhalten Sie auf Anfrage. Alle lichttechnischen Daten – vermessen im FLASHAAR® Lichtlabor – finden Sie unter flashaar.de im Download-Bereich. Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %.

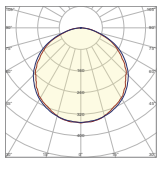
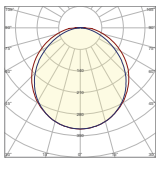
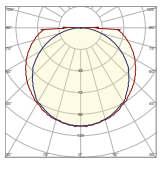
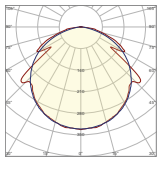
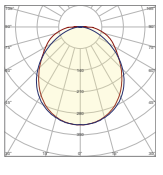
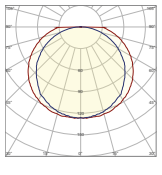
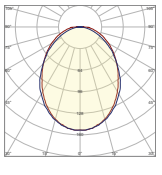
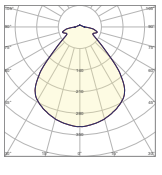
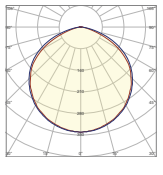
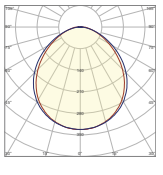
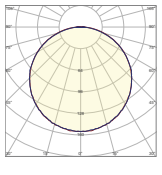
Measured values are subject to the typical tolerances. Other configurations are available on request. All photometric data – measured in FLASHAAR's light laboratory – available at flashaar.de/en in the download area. All optical and electrical data have a tolerance of ±10 %.

Vollständige photometrische Messdaten für IP65 / IP65 Premium auf Anfrage. Full photometric measurement data for IP65 / IP65 Premium on request.

Kanal GRÜN – Lichtverteilungskurven mit verschiedenen Abdeckungen NP/L3C/G1/22C

channel green – light distribution curves with different covers NP/L3C/G1/22C

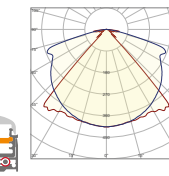
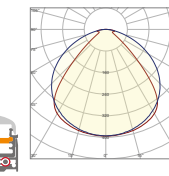
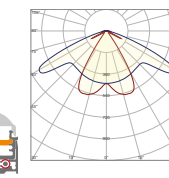
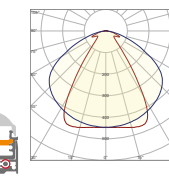
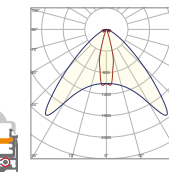
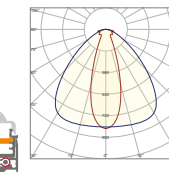
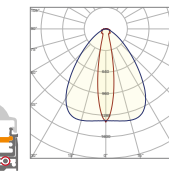
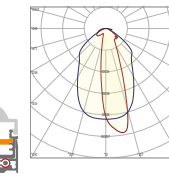
IP40

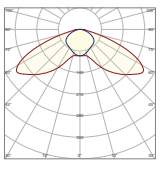
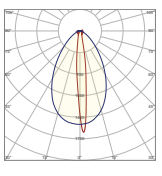
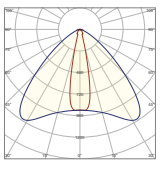
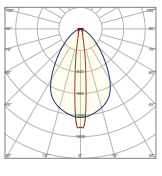
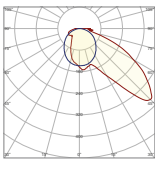
cover	T transparent	F frosted	W white	G grey	M microprismatic
cover round 120° 120° CR	2042 lm/m 	1933 lm/m 	847 lm/m 		
cover square 120° 120° CS	1977 lm/m 	1803 lm/m 	977 lm/m 	717 lm/m 	1586 lm/m 
cover flat 120° 120° CF	1911 lm/m 	1738 lm/m 	956 lm/m 		

Kanal GRÜN – Lichtverteilungskurven mit verschiedenen Linsen/Einschublinsen NP/L3C/G1/22C

channel green – light distribution curves with different lenses/insert lenses NP/L3C/G1/22C

IP40

lenses	T transparent	F frosted
lens 90° 90° L9	1977 lm/m 	1933 lm/m 
lens 60° 60° L6	2042 lm/m 	1933 lm/m 
lens 30° 30° L3	1868 lm/m 	1824 lm/m 
lens 15° 15° L1		1824 lm/m 
lens LAF-2 asymmetric 5° 10° LA		1824 lm/m 

lenses	T transparent IP40	F frosted IP65 PREMIUM
insert lens Batwing 120° ILBW CS	1173 lm/m 	
insert lens Wallwasher asymmetric 15° ILWW CS	1325 lm/m 	
insert lens 30° 30° IL3F CS	1412 lm/m 	
insert lens 15° 15° IL1F CS	1390 lm/m 	
insert lens ILAF asymmetric 60° ILA CS		1086 lm/m 

Messwerte unterliegen den typischen Toleranzen. Andere Konfigurationen erhalten Sie auf Anfrage. Alle lichttechnischen Daten – vermessen im FLASHAAR® Lichtlabor – finden Sie unter flashaar.de im Download-Bereich. Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %.

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Vollständige photometrische Messdaten für IP65 / IP65 Premium auf Anfrage. Full photometric measurement data for IP65 / IP65 Premium on request.

Kanal Blau – Lichtverteilungskurven mit verschiedenen Abdeckungen NP/L3C/G1/22C

channel blue – light distribution curves with different covers NP/L3C/G1/22C

IP40

cover	T transparent	F frosted	W white	G grey	M microprismatic
cover round 120° 120° CR	592 lm/m	561 lm/m	246 lm/m		
cover square 120° 120° CS	573 lm/m	523 lm/m	284 lm/m	208 lm/m	460 lm/m
cover flat 120° 120° CF	554 lm/m	504 lm/m	277 lm/m		

Kanal Blau– Lichtverteilungskurven mit verschiedenen Linsen/Einschublinsen NP/L3C/G1/22C

channel blue – light distribution curves with different lenses/insert lenses NP/L3C/G1/22C

IP40

lenses	T transparent	F frosted
lens 90° 90° L9	573 lm/m	561 lm/m
lens 60° 60° L6	592 lm/m	561 lm/m
lens 30° 30° L3	542 lm/m	529 lm/m
lens 15° 15° L1		529 lm/m
lens LAF-2 asymmetric 5° 10° LA		529 lm/m

lenses	T transparent IP40	F frosted IP65 PREMIUM
insert lens Batwing 120° ILBW CS	340 lm/m	
insert lens Wallwasher asymmetric 15° ILWW CS	384 lm/m	
insert lens 30° 30° IL3F CS	410 lm/m	
insert lens 15° 15° IL1F CS	403 lm/m	
insert lens ILAF asymmetric 60° ILA CS		315 lm/m

Messwerte unterliegen den typischen Toleranzen. Andere Konfigurationen erhalten Sie auf Anfrage. Alle lichttechnischen Daten – vermessen im FLASHAAR® Lichtlabor – finden Sie unter flashaar.de im Download-Bereich. Alle optischen und elektrischen Daten haben eine Toleranz von ±10 %.

Measured values are subject to the typical tolerances. Other configurations are available on request. All photometric data – measured in FLASHAAR's light laboratory – available at flashaar.de/en in the download area. All optical and electrical data have a tolerance of ±10 %.

Vollständige photometrische Messdaten für IP65 / IP65 Premium auf Anfrage. Full photometric measurement data for IP65 / IP65 Premium on request.

Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

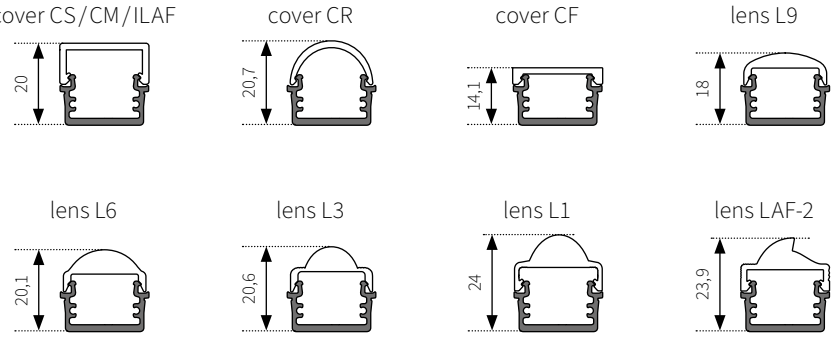
overview dimensions and installation dimensions with base profile G1

covers and lenses ►

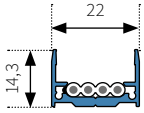


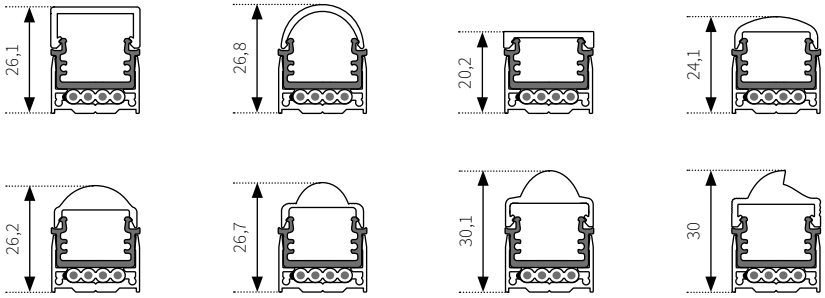
NP mounting profiles

▼

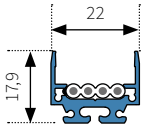


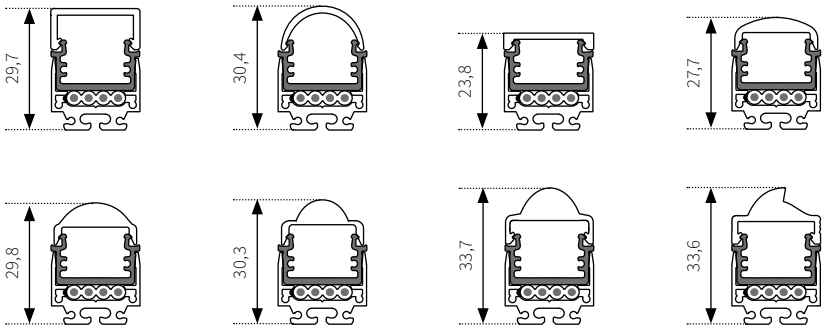
NP-S1



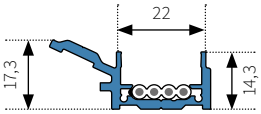


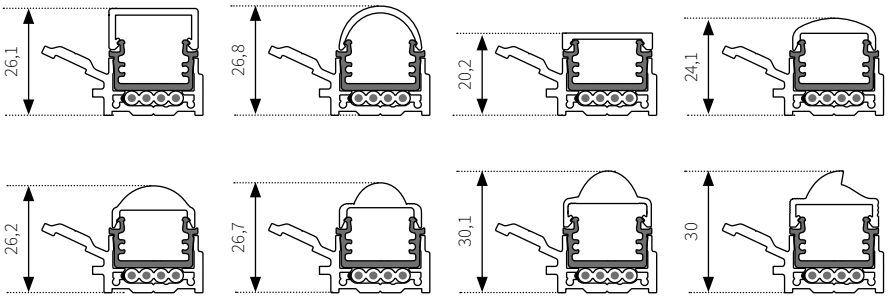
NP-S2





NP-S3





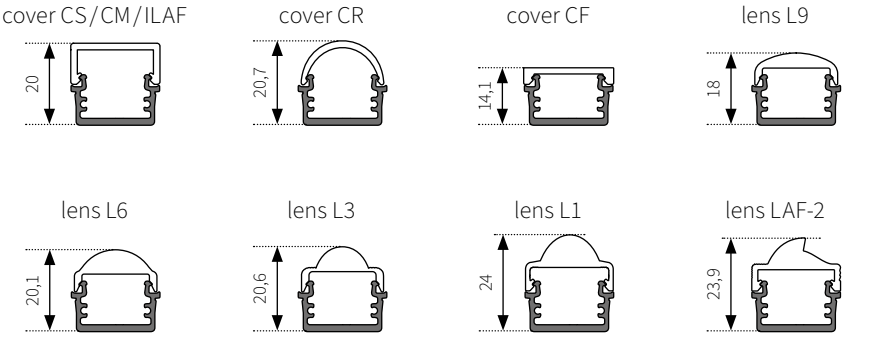
Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

overview dimensions and installation dimensions with base profile G1

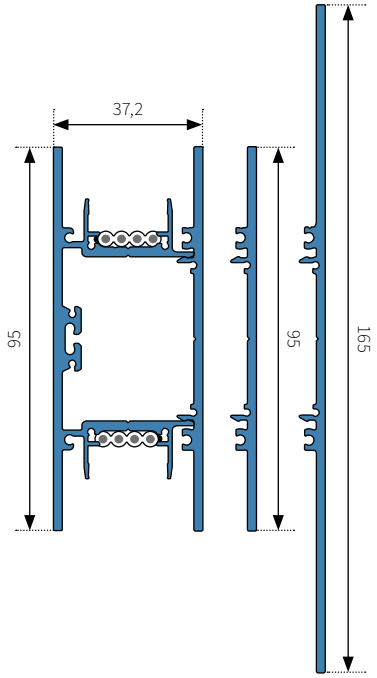
covers and lenses ►

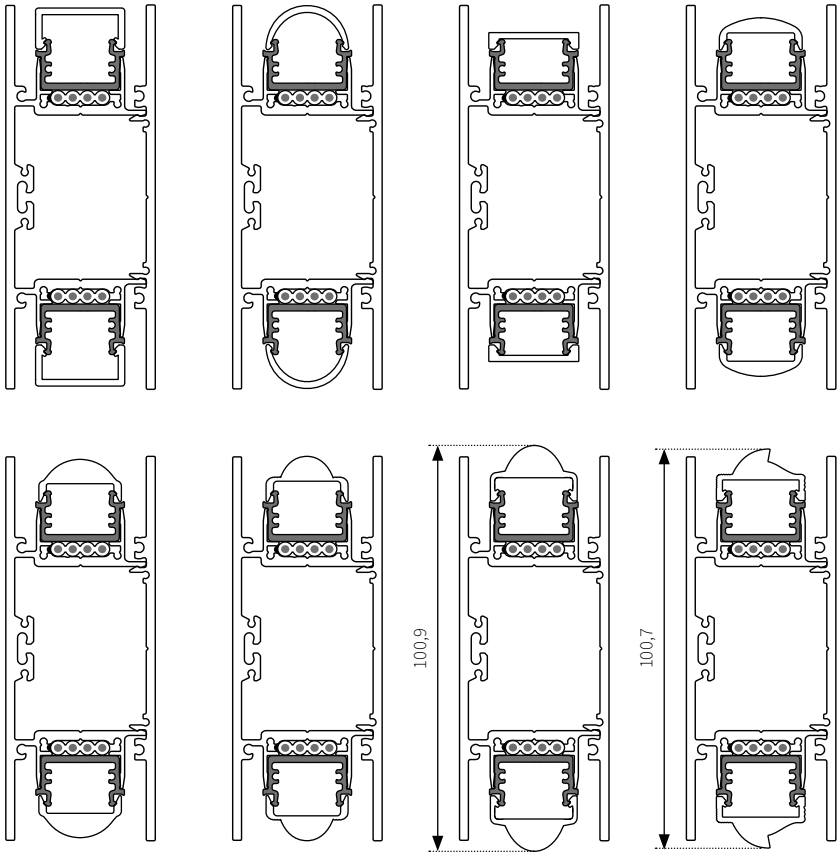
NP mounting profiles

▼

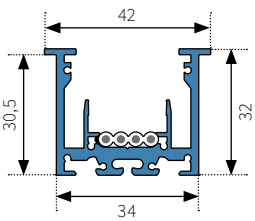


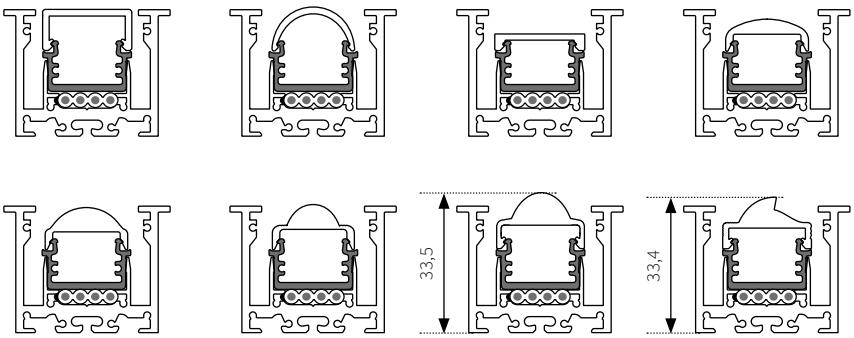
NP-H1 / H2





NP-R1





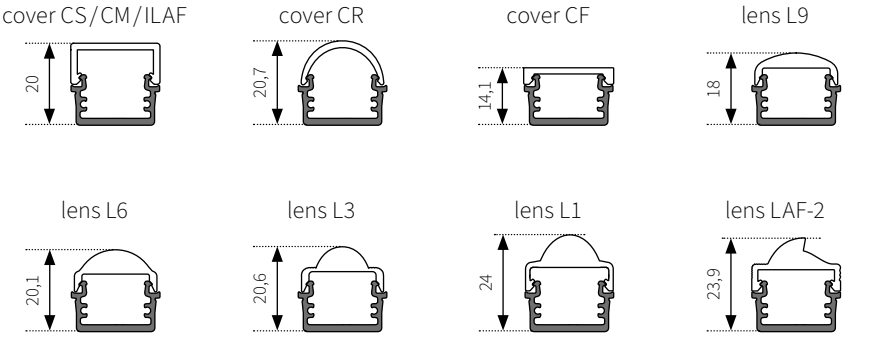
Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

overview dimensions and installation dimensions with base profile G1

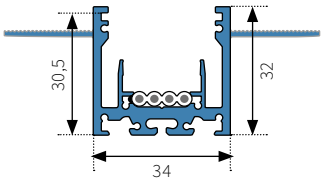
covers and lenses ►

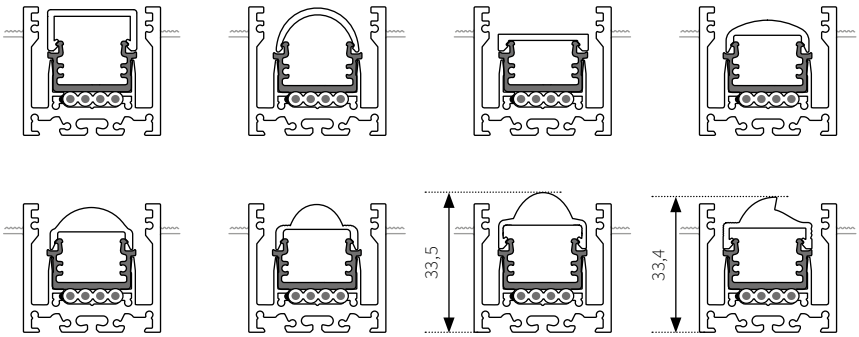
NP mounting profiles

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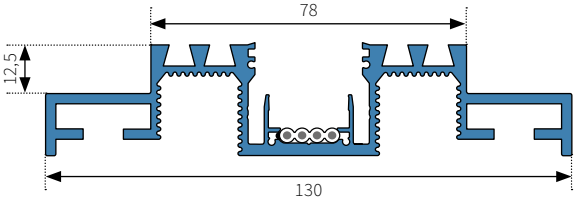


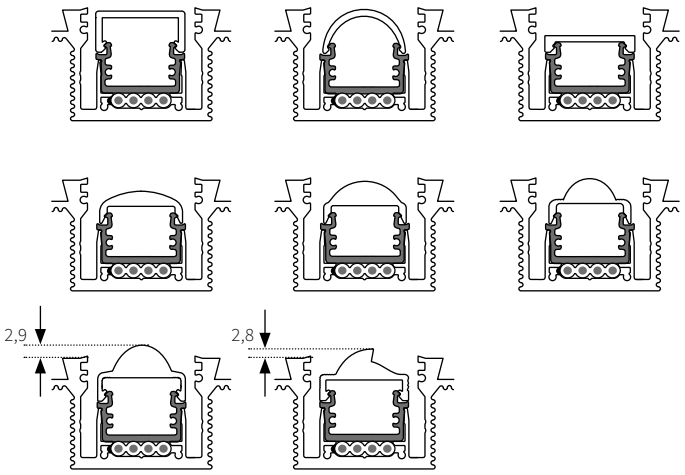
NP-R2 / R4



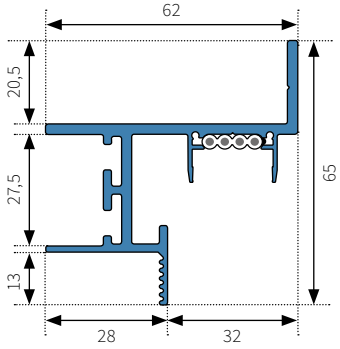


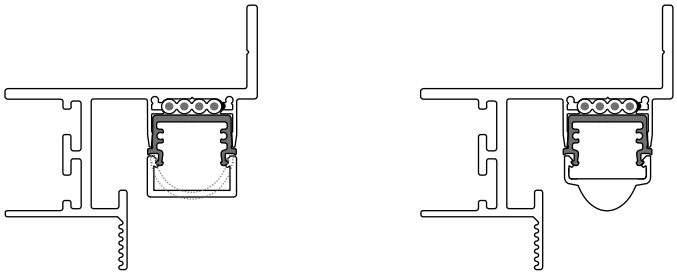
NP-R3





NP-R5





Alle Maßangaben in mm.

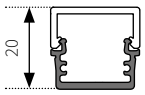
All dimensions in mm

Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

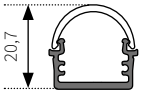
overview dimensions and installation dimensions with base profile G1

covers and lenses ►

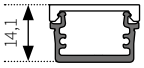
cover CS / CM / ILAF



cover CR



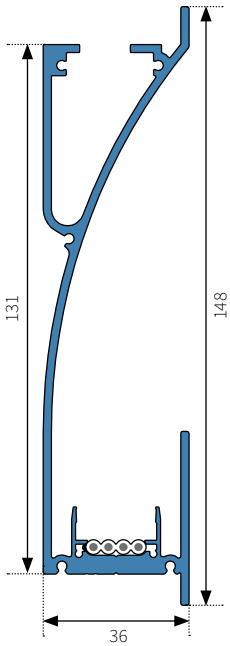
cover CF

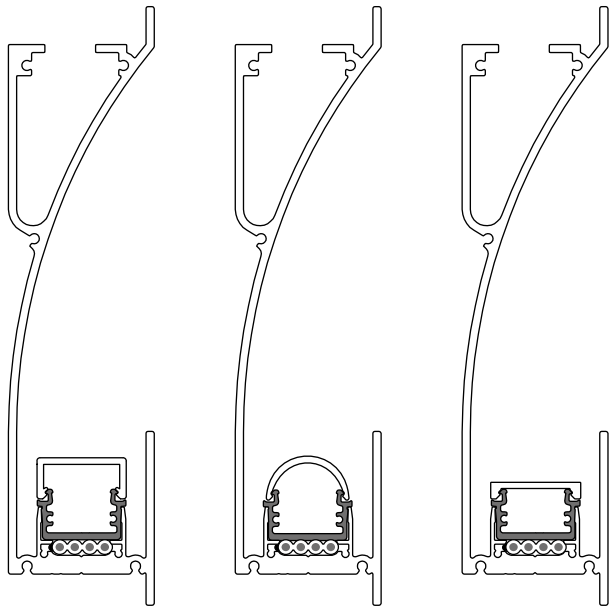


NP mounting profiles

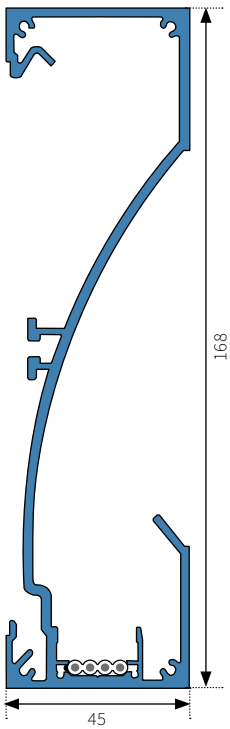
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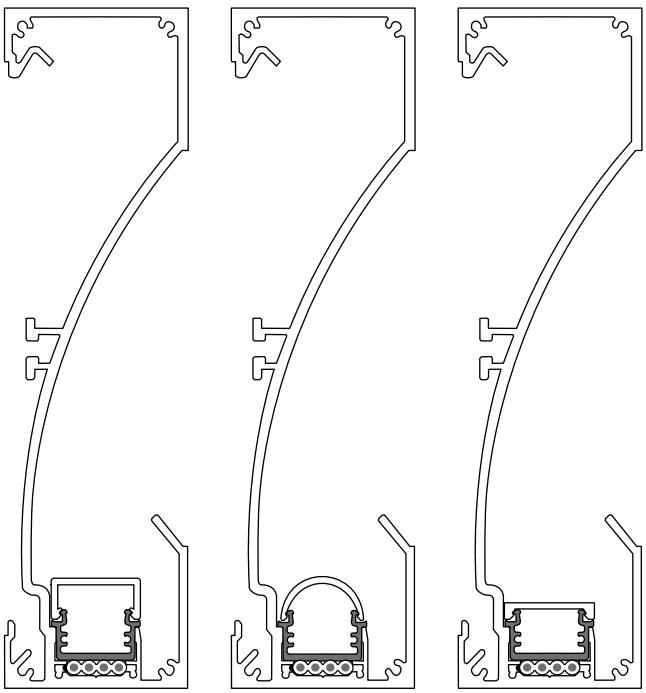
NP-I1





NP-I2





Alle Maßangaben in mm.

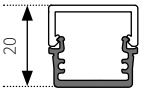
All dimensions in mm

Übersicht Abmessungen und Einbaumaße mit dem Basisprofil G1

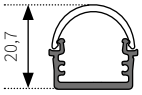
overview dimensions and installation dimensions with base profile G1

covers and lenses ►

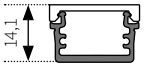
cover CS/CM/ILAF



cover CR



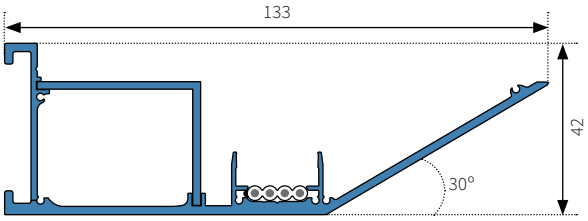
cover CF

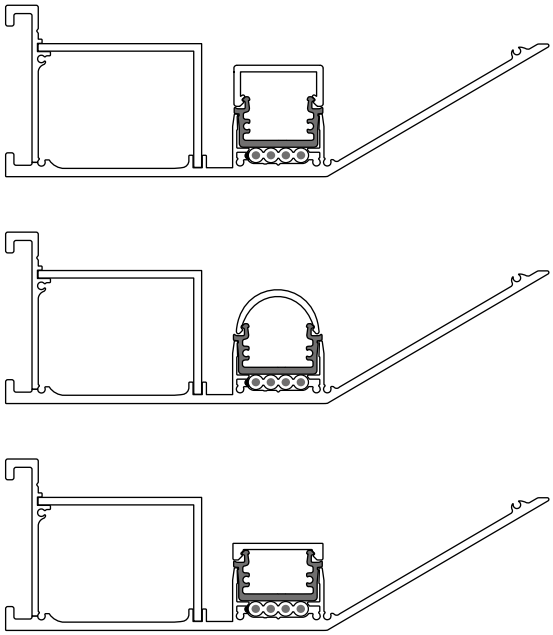


NP mounting profiles

▼

NP-W1





Alle Maßangaben in mm.

All dimensions in mm

Übersicht Abmessungen und Einbaumaße NP-S2 mit Montageclips mit dem Basisprofil G1

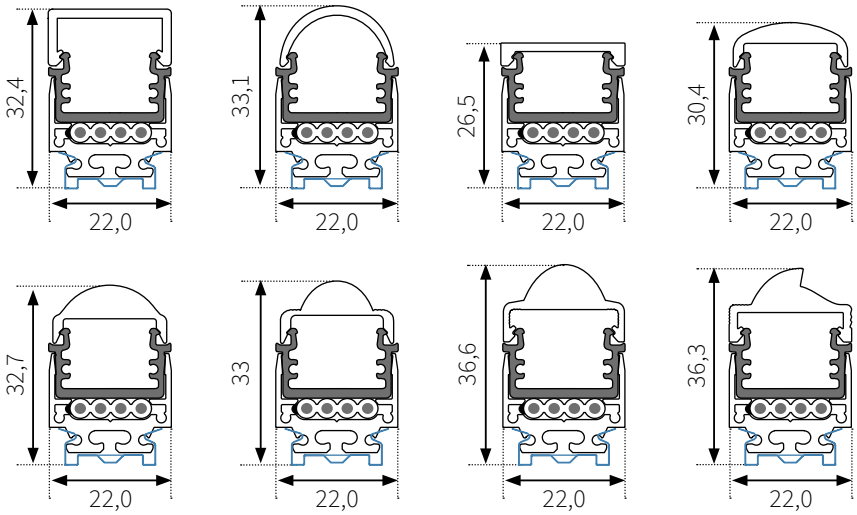
overview dimensions and installation dimensions NP-S2 with mounting clips with base profile G1

FL/SCLIP-0/0

Montageklammer 0°

mounting clip 0°.



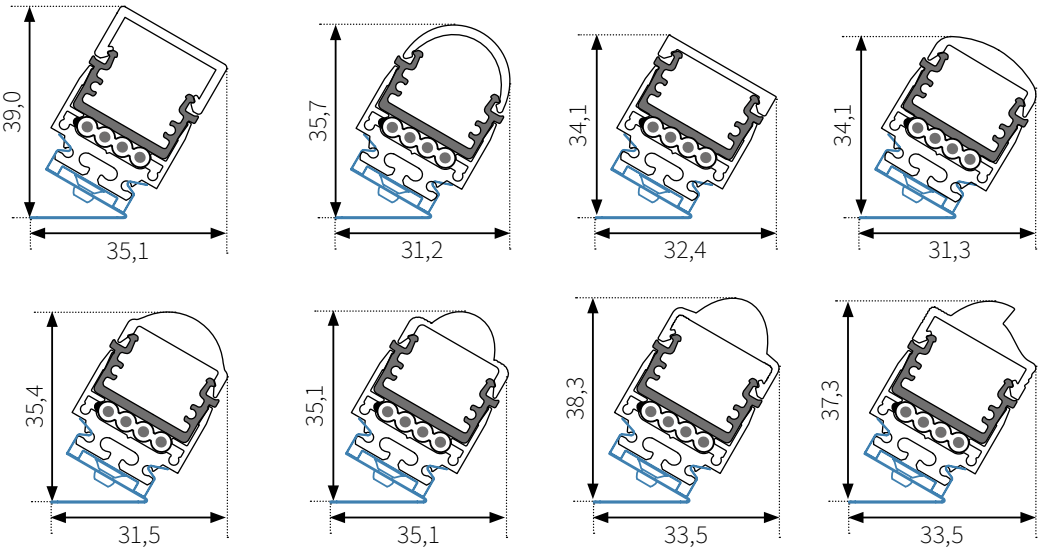


SCLIP-0/30/001

Montageklammer 30°

mounting clip 30°



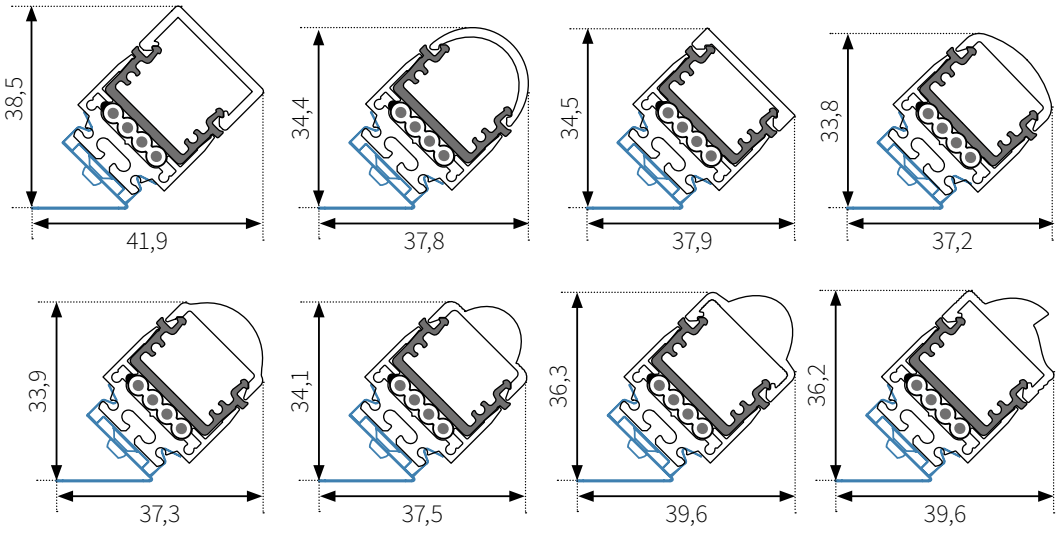


SCLIP-0/45/001

Montageklammer 45°

mounting clip 45°





Weitere Winkel-Montageklammern auf Anfrage. Alle Maßangaben in mm.

Further angle mounting brackets available on request. All dimensions are in mm.

Allgemeine Geschäftsbedingungen

Unsere Allgemeinen Geschäftsbedingungen sind auf unserer Internetseite unter folgender Adresse zu finden:
https://flashaar.de/agb/

general terms and conditions

Our general terms and conditions of business can be found on our website at the following address:
https://flashaar.de/en/conditions/

Bestellinformationen

Erforderliche Angaben auf Ihrer Bestellung
- Produktname
- Vollständige Artikelnummer (inklusive den zu ergänzenden Angaben z. B. Lichtfarbe, Cover- oder Linsentyp usw.)
- gewünschte Lieferzeit
- Lieferadresse

Bestelladresse
FLASHAAR LEDLight GmbH & Co. KG
Gaustraße 13 –15
55411 Bingen am Rhein
Deutschland
FON +49 6721 9195-0
FAX +49 6721 9195-91
bestellung@ledlight.flashaar.com
https://flashaar.de

Versandkosten
Wir berechnen Ihnen ausschließlich die tatsächlich angefallenen Versandkosten. Je nach Auftragswert und Quantität fallen zusätzliche Verpackungskosten an.

ordering information

information required on your order
- product name
- complete item number (including specification codes e.g. light colour, cover or lens type etc.)
- requested delivery date
- delivery address

ordering address
FLASHAAR LEDLight GmbH & Co. KG
Gaustraße 13 –15
55411 Bingen am Rhein
Germany
FON +49 6721 9195-0
FAX +49 6721 9195-91
order@ledlight.flashaar.com
https://flashaar.de

shipping costs
Please note, we charge you only the actual delivery costs. Additional handling charges may be applied depending on order value and quantity.

Ausgabe

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edition

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