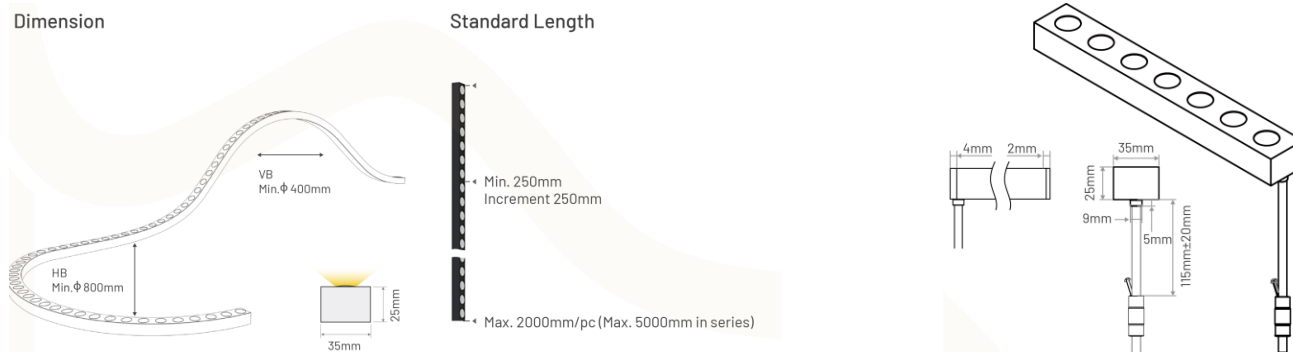


Neon-Flex Washer S35-3D

A highly flexible, high-output LED wall washer that follows architectural contours. Shape light in three dimensions, with controlled optical distributions and a choice of mounting profiles for straight, curved and adjustable installations.

Parameter	Specification
Working voltage	24 V DC
Rated power	24 W/m
LED quantity	28 LEDs/m
Cross-section	35 × 25 mm
Protection	IP68; not suitable for underwater use
Impact rating	IK10; IK08 in bendable H36 profiles
CRI	80 (white-light variants)
Weight	1,100 g/m
Working temperature	-40 to +55 °C
Storage temperature	-40 to +60 °C
Installation temperature	> -40 °C
Max. mounting surface temperature	85 °C
Standard piece length	250–2,000 mm, in 250 mm increments
Maximum connected length	5,000 mm in series
Nominal load at 5 m	120 W / 5 A at 24 V (calculated)
Lightline minimum bend diameter	HB Ø800 mm / VB Ø400 mm
Finishes	Black base / black light surface; white base / white light surface

Dimensions and factory-moulded connections



White-light output · lm/m

All values are finished-product output per metre. “>” limits and differences between black and white finishes are preserved. Rated power: 24 W/m; 24 V DC; CRI 80.

Static white · standard control

Black finish	12°	25°	15° × 25°	15° × 40°	15° × 60°
2700 K	>1350	>1400	>1500	>1350	>1150
3000 K	>1450	>1500	>1600	>1500	>1300
3500 K	>1450	>1500	>1600	>1500	>1300
4000 K	>1550	>1600	>1700	>1600	>1400
5700 K	>1450	>1600	>1700	>1600	>1400

White finish	12°	25°	15° × 25°	15° × 40°	15° × 60°
2700 K	>1600	>1700	>1750	>1650	>1450
3000 K	>2000	>1800	>1900	>1800	>1800
3500 K	>2000	>1800	>1900	>1800	>1800
4000 K	>1850	>1950	>2000	>1900	>1700
5700 K	>1750	>1950	>1950	>1700	>1900

Static white · DMX / SPI control

Black finish	12°	25°	15° × 25°	15° × 40°	15° × 60°
2700 K	>1200	>1250	>1250	>1200	>1050
3000 K	>1450	>1350	>1350	>1300	>1300
3500 K	>1450	>1350	>1350	>1300	>1300
4000 K	>1450	>1500	>1550	>1500	>1300
5700 K	>1350	>1500	>1500	>1300	>1450

White finish	12°	25°	15° × 25°	15° × 40°	15° × 60°
2700 K	>1450	>1550	>1600	>1500	>1450
3000 K	>1800	>1650	>1700	>1600	>1600
3500 K	>1800	>1650	>1700	>1600	>1600
4000 K	>1800	>1850	>1900	>1800	>1600
5700 K	>1700	>1850	>1850	>1800	>1800

CCT tolerances: 2700 K → 2725 ±115 K; 3000 K → 3045 ±140 K; 3500 K → 3465 ±170 K; 4000 K → 3985 ±225 K; 5700 K → 5665 ±355 K.

Tunable white, colour & control options

Every configuration is 24 V DC / 24 W/m, with 28 LEDs/m and black or white finish. DMX (UCS512CN) and SPI (UCS2903) versions have 4 pixels/m. Static white and tunable white: five lens distributions. RGB and RGBW: 20° × 40° optics.

Tunable white · Standard · lm/m

Lens	Black 2700 K	Black 6500 K	White 2700 K	White 6500 K
12°	>760	>800	>880	>930
25°	>730	>800	>910	>1000
15° × 25°	>840	>890	>960	>1020
15° × 40°	>780	>840	>920	>980
15° × 60°	>680	>720	>820	>850

Tunable white · DMX / SPI · lm/m

Lens	Black 2700 K	Black 6500 K	White 2700 K	White 6500 K
12°	>640	>670	>800	>830
25°	>650	>720	>820	>900
15° × 25°	>700	>740	>870	>920
15° × 40°	>670	>700	>830	>880
15° × 60°	>590	>610	>740	>770

Warm and cool channels are listed separately. Tunable endpoint tolerances: 2725 ±145 K and 6532 ±510 K.

RGB / RGBW · Standard · lm/m

Variant / finish	Red	Green	Blue	RGB	White
RGB / Black	>125	>280	>60	>465	—
RGB / White	>150	>340	>75	>565	—
RGBW / Black	>100	>225	>60	>385	>290
RGBW / White	>115	>265	>75	>455	>350

RGB / RGBW · DMX / SPI · lm/m

Variant / finish	Red	Green	Blue	RGB	White
RGB / Black	>115	>270	>30	>415	—
RGB / White	>145	>335	>80	>560	—
RGBW / Black	>80	>230	>70	>380	>315
RGBW / White	>100	>275	>85	>460	>380

RGBW white: 3000 K, CRI 80, 3045 ±175 K. Red: 619–624 nm; green: 520–535 nm; blue: 460–475 nm.

Accessories & mounting profiles

Choose profiles for the required bending direction, installation depth and aiming angle. The bend limits of the complete assembly govern the installation.

Profile / accessory	Dimensions	Lengths	Description
Serrated aluminium profile H50 H50	41 × 50 mm	50, 500, 1,000, 2,000 mm	With cable raceway. IK10.
Serrated aluminium profile H36 H36	41 × 36 mm	50, 500, 1,000, 2,000 mm	Rigid mounting profile. IK10.
Bendable serrated aluminium profile H36 (HB) H36-HB	41 × 36 mm	1,000 mm	Min. bend diameter Ø1,200 mm. Installed assembly IK08.
Bendable serrated aluminium profile H36 (VB) H36-VB	41 × 36 mm	1,000 mm	Min. bend diameter Ø2,000 mm. Installed assembly IK08.
Pivot-lift serrated aluminium profile Pivot-lift	41 × 45 mm	500, 1,000 mm	Max. adjustable angle 90°. IK10.
Flexible profile, surface / recessed installation Anole3525 / Anole3525-IN	41.5 × 34 mm	200, 500, 1,000 mm	Black or white. HB Ø800 mm / VB Ø400 mm. IK08. Dimension tolerance ±0.5 mm.
Adjustable mounting bracket Adjustable bracket	41 × 53.9 mm	—	304 stainless steel; 180° rotation. Rotation is restricted when used with a bendable profile.
Bendable aluminium glare shield Glare shield (HB)	76 mm overall height; 40 mm shield extension	1,000, 2,000 mm	HB min. bend diameter Ø1,200 mm. Not suitable for the vertical bending profile.
Dual-adjustable mounting bracket Dual-adjustable bracket	40 × 73.4 mm; 78.8 mm body length	—	304 stainless steel. Adjustable wall distance 80–120 mm; 180° rotation. Works with the listed profiles.

Aluminium profile tolerance ±0.3 mm; flexible profile tolerance ±0.5 mm. Dimensions are in mm. The lightline has minimum bend diameter Ø800 mm (HB) and Ø400 mm (VB).

Factory-moulded connections

IP68 silicone injection-moulded connections form part of the lightline assembly. Optional male/female connectors: approximately 50 × 20 mm. Connector drawing tolerance ±0.5 mm. Keep the anti-wicking ferrule intact: removing it can cause water ingress.

Power and length selection

Piece length: 250–2,000 mm in 250 mm steps. Maximum connected length in series: 5 m. This corresponds to 120 W / 5 A nominal at 24 V. Select driver capacity, reserve, cables and feeds for the actual installation and verify voltage drop.

Mounting & installation instructions

Key limits: install above -40 °C; insertion/removal angle $\leq 30^\circ$; respect minimum bend diameters. IP68 does not make this product suitable for underwater use.

1. Prepare the lightline and profile

Select the profile for the required bending direction. Do not bend below the minimum diameter of either the lightline or its profile. Check the power supply and the maximum connected length before installation.

2. Cut and join the profile

Cut the mounting profile to length with a suitable saw. Remove burrs and sharp edges. At a joint, leave approximately 5 mm between profiles and keep the sections aligned vertically and horizontally. Misalignment can damage the lightline and PCB.

3. Secure the mounting system

Mark and drill the fixing holes appropriate for the mounting surface. Keep the profile interior clear of debris; sharp fragments can damage the silicone and cause water ingress. With adjustable mounting brackets, use 2–3 brackets per metre as recommended in the installation instructions.

4. Install an optional glare shield

Fit the profile into the shield slots and push it forward. Shape the glare shield together with the horizontal bendable profile. Minimum bend diameter $\varnothing 1,200$ mm; do not use the shield with the vertical bending profile.

5. Insert the lightline

Press the lightline into the profile progressively. Keep the insertion angle between the lightline and profile at 30° or less. With H36 profiles, leave about 20 mm of the lightline outside the profile at the end. With H50 profiles, the lightline end can align with the profile end.

6. Protect cable entries and connections

Do not pull or load the ends of the lightline. Avoid scratches to the cable sheath and keep the anti-wicking ferrule intact. Align the red marks on the male/female connectors, insert, then tighten clockwise. Use a professional waterproof junction box or suitable waterproof connector for cable treatment; wrapping the cable in waterproof tape alone is not sufficient.

7. Test and aim

After completing the electrical connections, test the lighting and set the required aiming angle. Observe the mounting bracket limits and the selected profile's bending limits.

8. Remove without overstressing

Lift the lightline carefully from the bottom with a screwdriver as described in the installation instructions. Keep the angle between the lightline and profile at 30° or less during removal.

Configuration checklist

Specify: required piece lengths; static white CCT / tunable white / RGB / RGBW; standard, DMX or SPI control; optical lens; black or white finish; mounting profiles; optional brackets, glare shields and male/female connectors.

Sustainability & life-cycle information

An Environmental Product Declaration (EPD) summarises environmental impacts over a product's life cycle: raw material extraction, manufacturing, transport, use and end of life. For product-specific environmental documentation, contact LEDPRO.