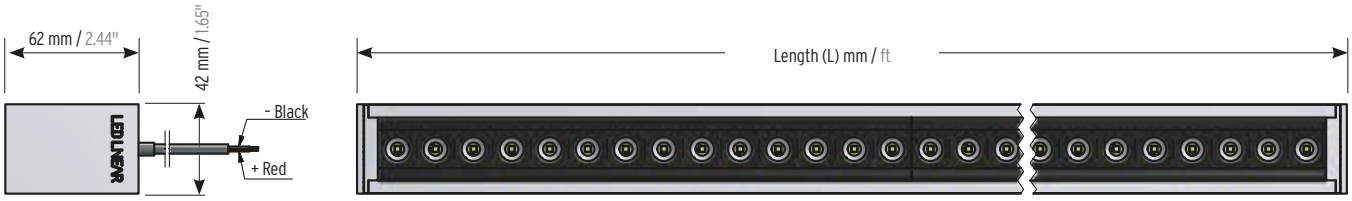
Project name | Fixture type | Specifier | Date

MARS NANO CV White Pendant/Ceiling IP40

NEW

24 V slim linear LED invisible downlight luminaire in IP40 with optimal glare control available as recessed with a remarkable low depth of installation of 33 mm (1.3") or surface-mounted & pendant version in a robust 42 mm x 62 mm (1.65" x 2.44") housing. Extruded and anodized aluminum casing profiles and magnetic aluminum end caps (for surface and pendant) available in silver, black or white colors. Easy tool free recessed installation with pre-mounted springs. Delivered with 2 m (6.56') open end black cable. Nanometric lenses optics technology enabling accurate 15°, 25°, 40° or 65° beam angle gaussian lighting distribution. Antiglare optics available in black or white offering a UGR as low as < 13 for an optimal visual comfort. Light source assembled using state of the art automated Reel to Reel (R2R) production process supporting LED Linear™ Tj Away® thin flexible circuit board technology. In combination with CSP LED packages a thermal resistivity of 5.3 K/W is achieved for an optimal heat dissipation (junction to profile) which guarantees an outstanding lifetime of > 60,000 hrs L80/B10. Embeds high quality CSP LEDs with 3 step MacAdams (SDCM3) binning centered on target CCT (One Bin Only) with an extended photometric code of Wxxx/339 ensuring an exceptional color consistency over the rated lifetime. Premium color rendition with a CRI of 95 and TM-30-15 up to R_f = 95 / R_g = 100 ensuring a remarkable light quality. Consistent light intensity all along the luminaire length is obtained thanks to active current regulation operated by dedicated integrated circuits (ICs) on each step. Protected against electrostatic discharge ± 2,000 V and polarity miswiring. Fully PWM dimmable for frequency > 0 Hz up to 2 kHz (flicker free for frequency higher then 1.2 kHz according to IEEE P1789 standard). Engineered and produced in Germany.

Dimensions & available lengths



Fixture build to length (not field cuttable):

L_{min}: 270 mm; L_{max}: 4,020 mm (LD25: 3,020 mm/LD40: 2,020 mm); in 125 mm increments
L_{min}: 0.89"; L_{max}: 13.18' (LD25; 9.91'/ LD40; 6.63'); in 4.92" increments

Electrical & output data

Voltage	24 Volt (23 V_{min}, 25 V_{max})
Temperature[B]	Tc_{min} = -25°C / -13°F, Tc_{max} = specific, see Table below
Storage temperature	Ts_{min} = -30°C / -22°F, Ts_{max} = 85°C / 185°F
Ambient temperature	Ta_{min} = -25°C / -13°F, Ta_{max} = specific, see Table below

MARS NANO CV	LD5	LD10	LD15	LD25	LD40
Power (W/m / W/ft)[A]	5 / 1.5	10 / 3.1	15 / 4.6	25 / 7.6	40 / 12.2
Efficacy (lm/W)[A] @W 850	104	98	105	104	90
max. length (m / ft)	4 / 13.1	4 / 13.1	4 / 13.1	3 / 9.8	2 / 6.6
CRI / R9	95 / 65	95 / 65	95 / 65	95 / 65	95 / 65
Temperature Tc-point(Tc_{max})[2]	60°C / 140°F	60°C / 140°F	60°C / 140°F	65°C / 149°F	75°C / 167°F
max. Ambient temperature (Ta_{max})	50°C / 122°F	50°C / 122°F	50°C / 122°F	45°C / 113°F	35°C / 95°F

ONE BIN ONLY

NanoRay LED LINEAR™ TECHNOLOGY

L80/B10 > 60.000 h — Lifetime

Wxxx/ 339 — Photometric code

LM 79 — LM 79 compliant

LM 80 — LM 80 compliant

		LD5	LD10	LD15	LD25	LD40
		low output →				high output
Color temperature		**lumen/meter** (lm/m)[A] **lumen/feet** (lm/ft)[A] **@ 15° Optics**[C]				
W822	2,200 K	380 / 120	740 / 230	1,160 / 350	1,910 / 580	2,650 / 810
W927	2,700 K	400 / 120	780 / 240	1,230 / 370	2,030 / 620	2,810 / 860
W930	3,000 K	410 / 120	800 / 240	1,280 / 390	2,100 / 640	2,910 / 890
W935	3,500 K	420 / 130	820 / 250	1,290 / 390	2,140 / 650	2,960 / 900
W940	4,000 K	440 / 130	840 / 260	1,340 / 410	2,210 / 670	3,050 / 930
W850	5,000 K	500 / 150	940 / 290	1,570 / 480	2,600 / 790	3,590 / 1,090

[A] The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

[B] The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

[C] 25°, 40° and 65° reflectors -5% lumen/m.

Please click here to configure your fixture online

Order code

MARS NANO CV White Pendant/Ceiling IP40

Your order code	MARS NANO CV	LD__	W___	____	__	_	__	IP40
Order code example	MARS NANO CV	LD15	W935	1264	SB	C	65	IP40

LED tape
NEXUS LD5 ..... LD5
NEXUS LD10 ..... LD10
NEXUS LD15 ..... LD15
NEXUS LD25 ..... LD25
NEXUS LD40 ..... LD40

Color temperature
2,200 K (W822) 822
2,700 K (W927) 927
3,000 K (W930) 930
3,500 K (W935) 935
4,000 K (W940) 940
5,000 K (W850) 850

Length
L_{min}: 145 mm (0.89');
L_{max}: 4,020mm (13.18'); LD25: 3,020 mm (9.91');
LD40: 2,020 mm (6.63');
in 125 mm (4.92") increments

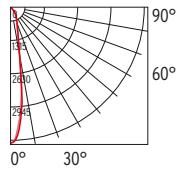
Color
Black profile with black glare reduction ..... BB
Silver profile with black glare reduction ..... SB
White profile with white glare reduction ..... WW
White profile with black glare reduction ..... WB

Mounting
Pendant ..... P
Ceiling C

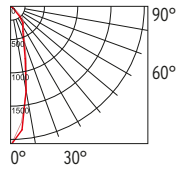
Optics (DIN 5040:A60)
15° Optic 15
25° Optic 25
40° Optic 40
65° Optic 65

Ingress protection
IP40 ..... IP40

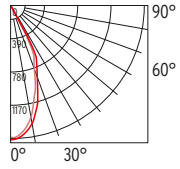
Optic 15°[C]



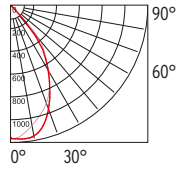
Optic 25°[C]



Optic 40°[C]



Optic 65°[C]



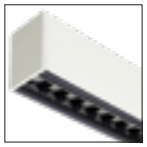
cd/1.000 lumen C0/C180 C90/C270

[C] DIN 5040:A60

Colors

Black profile with black glare reduction

White profile with white glare reduction



Silver profile with black glare reduction

White profile with black glare reduction

Please choose your accessories

☑ Fixture comes equipped with 2 m / 6.56' open end cable pre-equipped.

required

Recommended power supply	Art.-#	
☐ Power Supply Unit IP20	16000178	

optional

Recommended control unit	Art.-#	
☐ Control System White/IQ-White	16000268-DT6	

Pendant	Art.-#	
☐ VarioPendant 4262	13000106	

For max. cable length between driver and fixture please visit **www.led-linear.com/cable-length**