

Design LED's award-winning solutions offer designers, architects and artists, the opportunity to create ultra-thin, flexible backlighting. The Light Tiles can be easily integrated into walls, ceilings and different types of furniture. Doing so will enhance the visual impact of architectural or retail applications producing edge to edge, homogeneous luminous surfaces. It's now possible to have single or double-sided illumination from a single Light Tile.

'Ness' is a powerful and optically efficient solution that demonstrates how easily materials can be highlighted to their best advantage. It creates bright, homogeneous light surfaces and brings spaces and buildings to life.

Why Ness:

- Application efficient, bright, uniform backlighting for mounting depths between 20 - 50mm
- On site customisation allows cut to fit in challenging installations, ensuring seamless integration
- Modular design allows simple and quick installation with standard mountings / fixings
- No complex additional accessories required
- Flexible & thin profile allows curved or complex shapes
- Cost optimised design, with low energy consumption and maintenance
- Compatible with all 24V DC standard power supplies, including dimmable



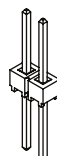
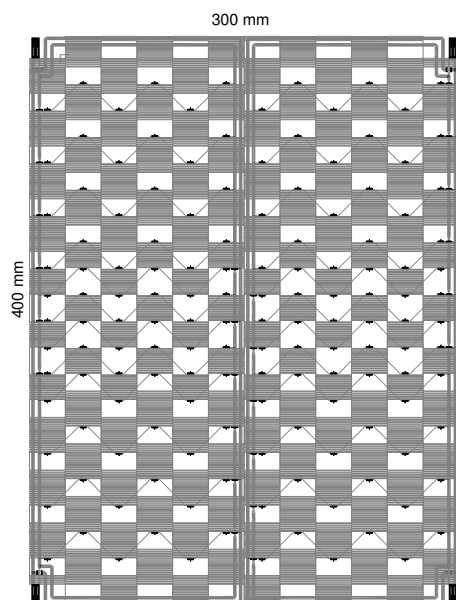
Technical Specification

Design LED Products offers a technical consulting service to ensure light and colour quality match your project specifications.

Electrical data		Photometric data	
Power consumption	9.8 W	Luminous flux	700 lm
Input voltage	24 V DC	Module efficacy	71 lm/W
Cable required	AWG 22	CCT	3000 K, 4000 K, 6500 K
Max. number of serially connected modules	7 modules	CRI	85 Ra
		Lumen maintenance	L70, B50 @ +25 °C > 50,000 hrs

Certifications & Safety		Physical data	
Standards	CE	Length	400 mm
Module IP Rating	20	Width	300 mm
Energy efficiency class	A+	Module height	2 mm
Module material	PET + PU (UL94-HB)	Weight	270 g
Connector material	Nylon 6 (UL94 V0)	Min. Bend radius ^{a)}	100 mm
Connector max. rating	3A	Operating temperatures	-20 °C ... +50 °C

Dimensions



Interconnect Pin

Pin length 18mm
Pitch 2.5 mm

Due to the technical nature of this tile, careful installation is required. The connection points should be kept straight and flat.

Please contact DesignLED for advice on installation methods, and to ensure best practise is followed.

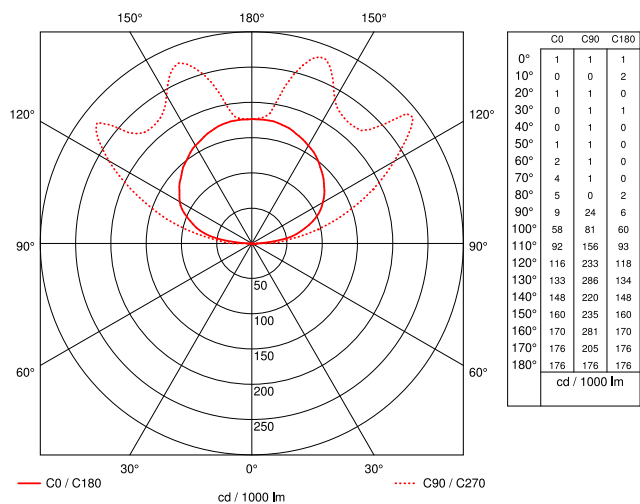
To download a complete installation guide please visit our website www.designledproducts.com

^{a)} Ideal for a 1D curve. Contact us for design assistance.

Subject to change without notice. Errors and omissions excepted.

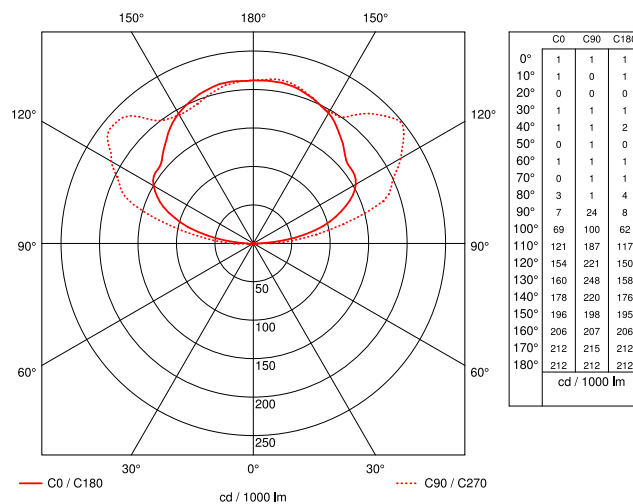
Photometrics

Side A with reflector*



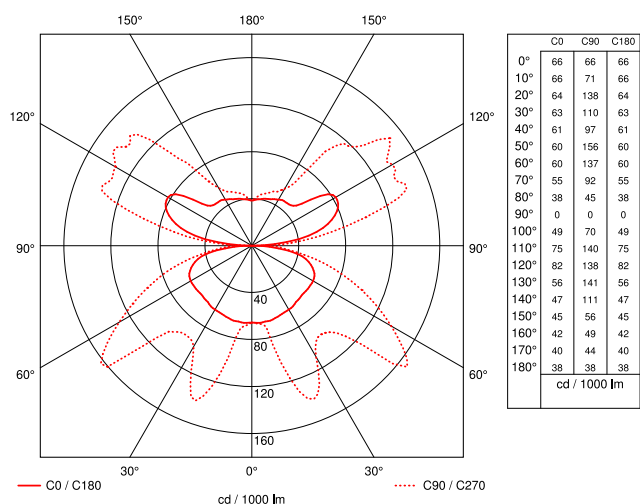
Lumens: 700 lm

Side B with reflector*



Lumens: 700 lm

Double-sided



Lumens: 700 lm

Side A: Top Connector Side

Side B: Bottom Connector Side

*High efficiency, white reflector (Furukawa Electric MCPET E3)

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Product Order Codes

Plug & Play Sample Kit	Product Order Codes	EAN Number
Ness, 3000K, Cables + Plug Top Power Supply	KITNE02ID3085	5060433681080
Ness, 4000K, Cables + Plug Top Power Supply	KITNE02ID4085	5060433681073
Ness, 6500K, Cables + Plug Top Power Supply	KITNE02ID6585	5060433681066

Backlighting Solutions	Product Order Codes	EAN Number
Ness, 3000K, 85 CRI	NE02ID3085	5060433680977
Ness, 4000K, 85 CRI	NE02ID4085	5060433680465
Ness, 6500K, 85 CRI	NE02ID6585	5060433680984

Power Supplies*	Product Order Codes	EAN Number
Osram 240W 24V IP67	PS2402467ND	5060433680625
Meanwell 120W 24V IP65	PS1202465ND	5060433680632
Osram 75W 24V IP64	PS752464ND	5060433680724
Osram 50W 24V IP66	PS502466ND	5060433680533
Osram 50W 24V IP20	PS502420ND	5060433680823
Osram 30W 24V IP66	PS302466ND	5060433680526
Meanwell 25W 24V IP42 (US compatible)	PS252442ND	5060433680816
Osram 20W 24V IP20	PS202420ND	5060433680618
Power Pax Plug Top 15W 24V IP20 (requires IDPCA2300BC)	PS152420ND	5060433680540

*Guidance on Power Supplies & Controls available upon request

Cables & Connectors	Product Order Codes	EAN Number
Input Power Cable Assembly with male connector, 400 mm	IDPCA2400MC	5060433680663
Input Power Cable Assembly with barrel connector, 300 mm	IDPCA2300BC	5060433680410
Interconnect Cable Assembly with pair of male connector, 350 mm	IDICA2350MC	5060433680403
Interconnect Pins	INIPINS	5060433680427

Installation Systems	Product Order Codes	EAN Number
4 ways Mounting Bracket	ISBL014MB	5060433680335
2 Ways Mounting Bracket	ISBL012MB	5060433680342
Push Fastener	ISBL01PF	5060433680352
Signage Grip	ISBL01SG	5060433680366
Stand-off Fastener	ISBL01SF	5060433680377
Wire Termination Cap	ISBL01WT	5060433680830

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