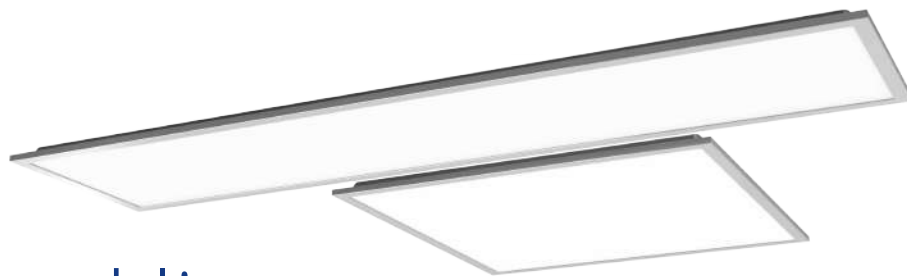




# FiaLUX Premium Backlit LED Panel



DATA SHEET

LED IP40 CLASS II CE UK CA

## Product information

Tungsrang FiaLUX Premium backlit LED panels are designed to improve the quality of life of the people working or studying in the space they illuminate. Research proves, that the quality of light at work highly influences the productivity of the employees or improves the results of study in school. This Hungarian made range with its' superior features and quality of light will help you to reach better results in business or in studying. The range has very high efficiency, up to 140lm/W and provide high quality, flicker free, low glare lighting.

By installing any of our FiaLUX panel range, you will be able to achieve easily a standard illumination defined in the EN12464 Standard.

## Features:

- Power: from 21W to 36W
- Luminous Flux from 2550lm to 5000lm
- Control: Flicker free, Tridonic or Helvar Static and DALI control with "Push dim" function
- Finish: Opal, prismatic diffuser
- Efficiency: up to 140lm/W
- CCT: 3000K and 4000K
- Lifetime: Control gear lifetime up to 100.000 h @ B10
- Lumen maintenance L80: > 54.000 h
- 10 Years Warranty
- Lumileds chip
- Low glare: UGR<19 (4H8H)
- Junction box with loop-in loop-out function
- Preinstalled Safety hooks for quick installation

## Application areas



Office



Public buildings



Schools



# Specification summary

Parameters below are the same for all luminaires in the range:

Light Technology used	LED
Light source	Non-replaceable light source
Mains / Non-mains	Non-mains Light source
Directional / Non-directional	Directional
Colour-tuneable	No
Anti-glare shield	Yes
Input Voltage & Frequency	220-240V(AC), 50/60Hz
Colour rendering index (CRI) (Ra) min	80
R9 colour rendering index value	0
Colour consistency in McAdam ellipses	≤4
Beam angle (±10° tolerance)	80°
Power factor	>0.9

Displacement factor	>0.9
Lightsource input voltage	42V(DC)
Flicker metric	≤1.0
Stroboscopic effect metric	≤0.4
Standby power	0W
Ingress protection	IP40
UGR	<19 (4H8H)
Lifetime L80B10	>54000h
Survival factor at 3000h	1
Lumen maintenance at 3000h	99%
Control gear lifetime (90% survival rate @Tc75)	100000h
Weight	2.2kg

Parameters below are specific for each of the product codes:

Product code	Description	Electrical data				Photometrical data				Dimensions
		Luminaire power (W)	On-mode power (W)	Lightsource input current (mA)	Dimmable	Luminaire lumen (lm)	Useful lumen (90°) (lm)	Correlated color temperature (CCT) (K)	Luminaire Efficiency (lm/W)	Dimensions (LxWxH) (mm)
<b>STATIC RANGE</b>										
93120218	FialUX 2X2 S2 21W 830 19	21	18.4	450	No (Static)	2700	1980	3000	129	595x595x26
93120219	FialUX 2X2 S2 21W 840 19	21	18.4	450	No (Static)	2900	2030	4000	138	595x595x26
93120220	FialUX 2X2 S1 27W 830 19	27	24.3	600	No (Static)	3500	2570	3000	130	595x595x26
93120221	FialUX 2X2 S1 27W 840 19	27	24.3	600	No (Static)	3770	2640	4000	140	595x595x26
93120222	FialUX 2X2 S1 31W 830 19	31	28.0	700	No (Static)	3850	2900	3000	127	595x595x26
93120223	FialUX 2X2 S1 31W 840 19	31	28.0	700	No (Static)	4280	3000	4000	138	595x595x26
93120224	FialUX 2X2 S2 36W 830 19	36	33.1	800	No (Static)	4650	3420	3000	129	595x595x26
93120225	FialUX 2X2 S2 36W 840 19	36	33.1	800	No (Static)	5000	3500	4000	139	595x595x26
93120226	FialUX 1X4 S2 21W 830 19	21	18.4	600	No (Static)	2550	1870	3000	121	1295x295x26
93120227	FialUX 1X4 S2 21W 840 19	21	18.4	600	No (Static)	2750	1930	4000	131	1295x295x26
93120228	FialUX 1X4 S1 27W 830 19	27	24.3	600	No (Static)	3350	2460	3000	124	1295x295x26
93120229	FialUX 1X4 S1 27W 840 19	27	24.3	600	No (Static)	3600	2520	4000	133	1295x295x26
93120230	FialUX 1X4 S1 31W 830 19	31	28.0	700	No (Static)	3750	2760	3000	121	1295x295x26
93120231	FialUX 1X4 S1 31W 840 19	31	28.0	700	No (Static)	4050	2840	4000	131	1295x295x26
93120232	FialUX 1X4 S2 36W 830 19	36	33.1	800	No (Static)	4550	3340	3000	126	1295x295x26
93120233	FialUX 1X4 S2 36W 840 19	36	33.1	800	No (Static)	4700	3290	4000	131	1295x295x26

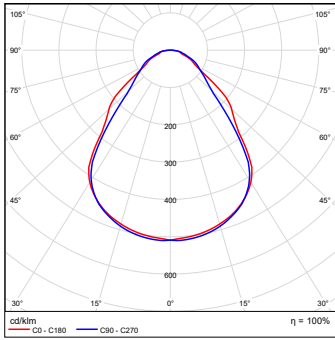
## DIMMABLE RANGE

93120234	FialUX 2X2 D1 36W 830 19	36	32.3	800	Yes (DALI)	4550	3340	3000	126	595x595x26
93120235	FialUX 2X2 D1 36W 840 19	36	32.3	800	Yes (DALI)	4900	3430	4000	136	595x595x26
93120236	FialUX 1X4 D1 36W 830 19	36	32.3	800	Yes (DALI)	4350	3200	3000	121	1295x295x26
93120237	FialUX 1X4 D1 36W 840 19	36	32.3	800	Yes (DALI)	4700	3290	4000	131	1295x295x26

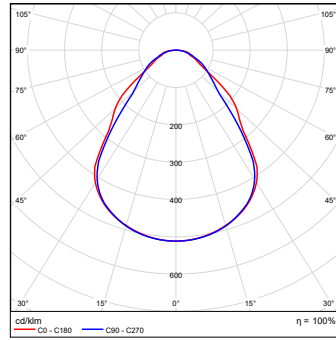
## Accessories

93120256	Fialux SM Kit 2x2
93120257	Fialux SM Kit 1x4
93120719	Surface mount kit 2x2 Deep
93120720	Surface mount kit 1x4 Deep
93120215	Fialux Suspension Kit
93120258	Fialux Plasterboard Kit
93120259	Fialux Connection Box 500mm cable
93118780	Edgelit LED Panel Safety Kit P

## Photometric distribution



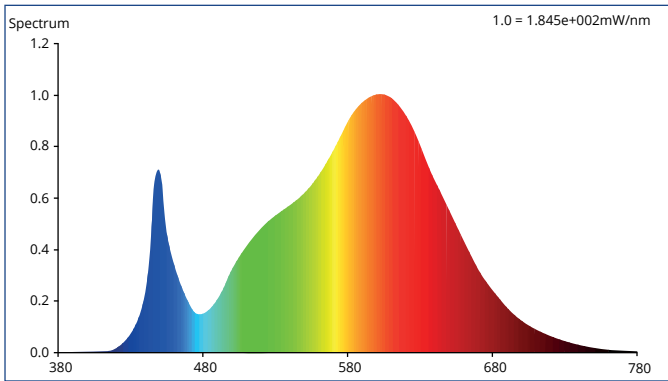
1x4 S2 36W



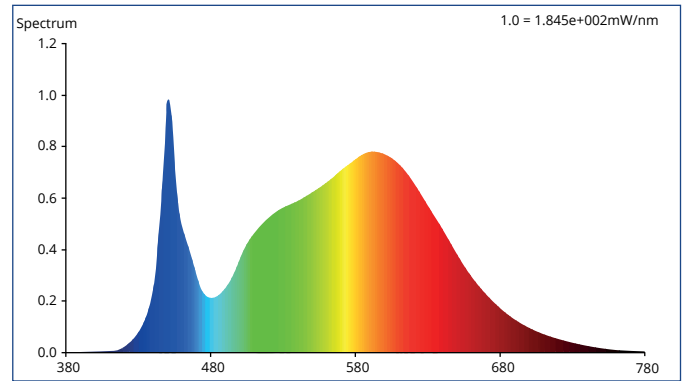
2x2 S2 36W

Only for indicative purpose. For lighting design, please use the ldt photometry files available for the products.

## Spectral power distribution



3000K



4000K

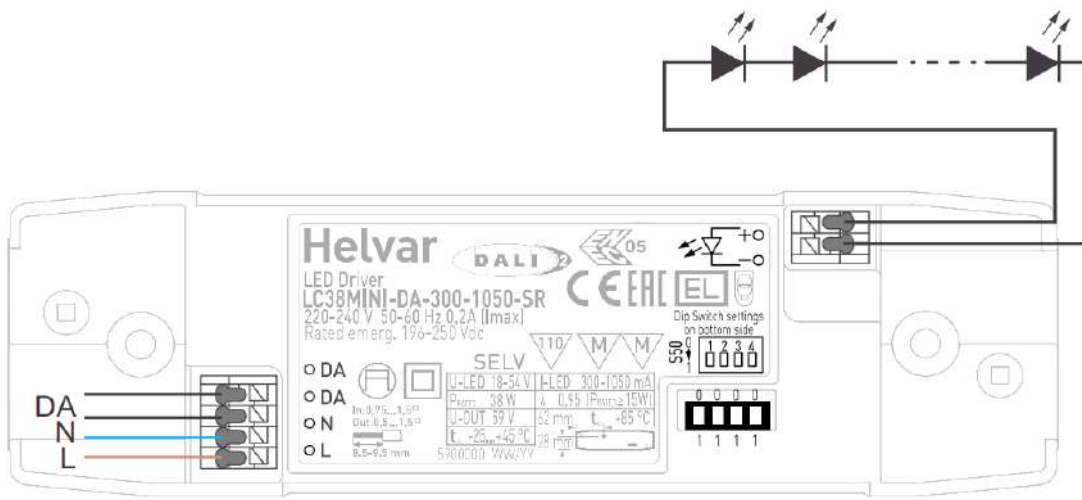
## ENERGY EFFICIENCY CLASS (A-G)\*



SKU	SKU
93120218	93120230
93120219	93120232
93120220	93120233
93120221	93120236
93120222	
93120223	
93120224	
93120225	
93120226	
93120227	
93120228	
93120229	
93120231	
93120234	
93120235	
93120237	

\*according to regulation 2019/2015

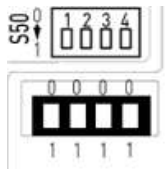
# DALI driver setting and performance



LC38MINI-DA-300-1050-SR

I-LED	PRATED	1	2	3	4
300 mA	16 W	0	0	0	0
350 mA	18 W	1	0	0	0
400 mA	21 W	0	1	0	0
450 mA	24 W	1	1	0	0
500 mA	27 W	0	0	1	0
550 mA	29 W	1	0	1	0
600 mA	32 W	0	1	1	0
650 mA	35 W	1	1	1	0
700 mA	38 W	0	0	0	1
750 mA	38 W	1	0	0	1
800 mA	38 W	0	1	0	1
850 mA	38 W	1	1	0	1
900 mA	38 W	0	0	1	1
950 mA	38 W	1	0	1	1
1000 mA	38 W	0	1	1	1
1050 mA	38 W	1	1	1	1

## DIP-SWITCH SETTINGS FOR DRIVER OUTPUT CURRENT

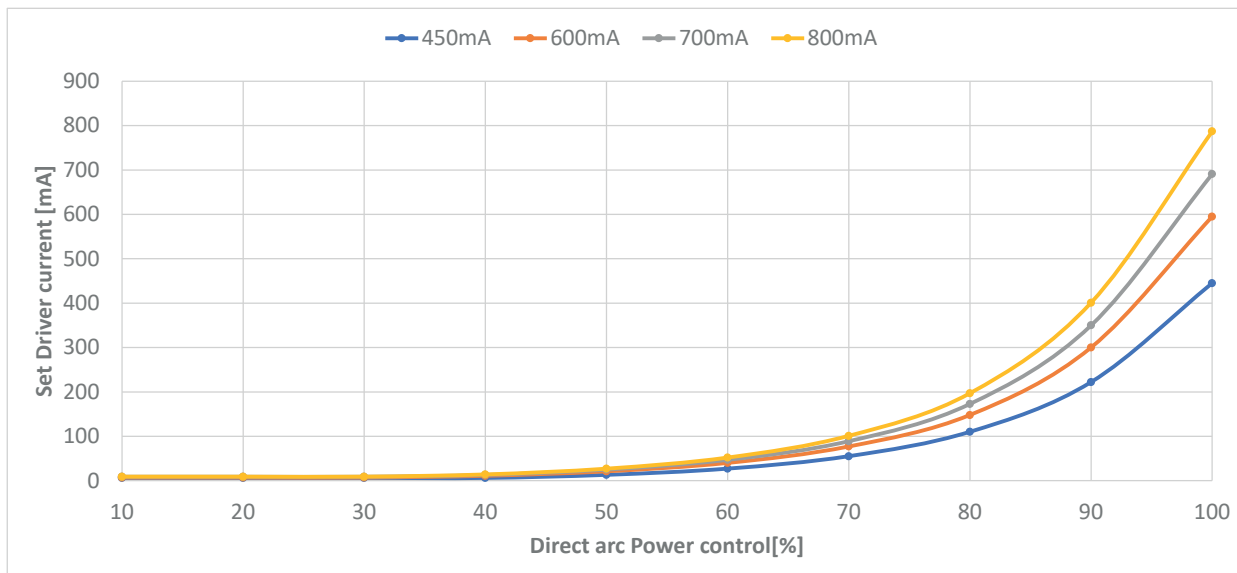


DIP SWITCH SETTING ON DRIVER				
I-set [mA]	1	2	3	4
450	1	1	0	0
500	0	0	1	0
550	1	0	1	0
600	0	1	1	0
650	1	1	1	0
700	0	0	0	1
750	1	0	0	1
800	0	1	0	1

DRIVER OUTPUT			SYSTEM			
Irated	Uout	Pout	Iin	Uin	Psystem	Flux
[mA]	[V]	[W]	[mA]	[V]	[W]	[Lm]
450	40.2	18.1	93	230	20.4	2721
500	40.4	20.2	102	230	22.7	3006
550	40.5	22.3	111	230	24.8	3291
600	40.6	24.4	120	230	27.1	3571
650	40.7	26.4	130	230	29.2	3856
700	40.8	28.6	139	230	31.4	4135
750	40.9	30.7	149	230	33.6	4421
800	41.0	32.3	160	230	36.0	4700

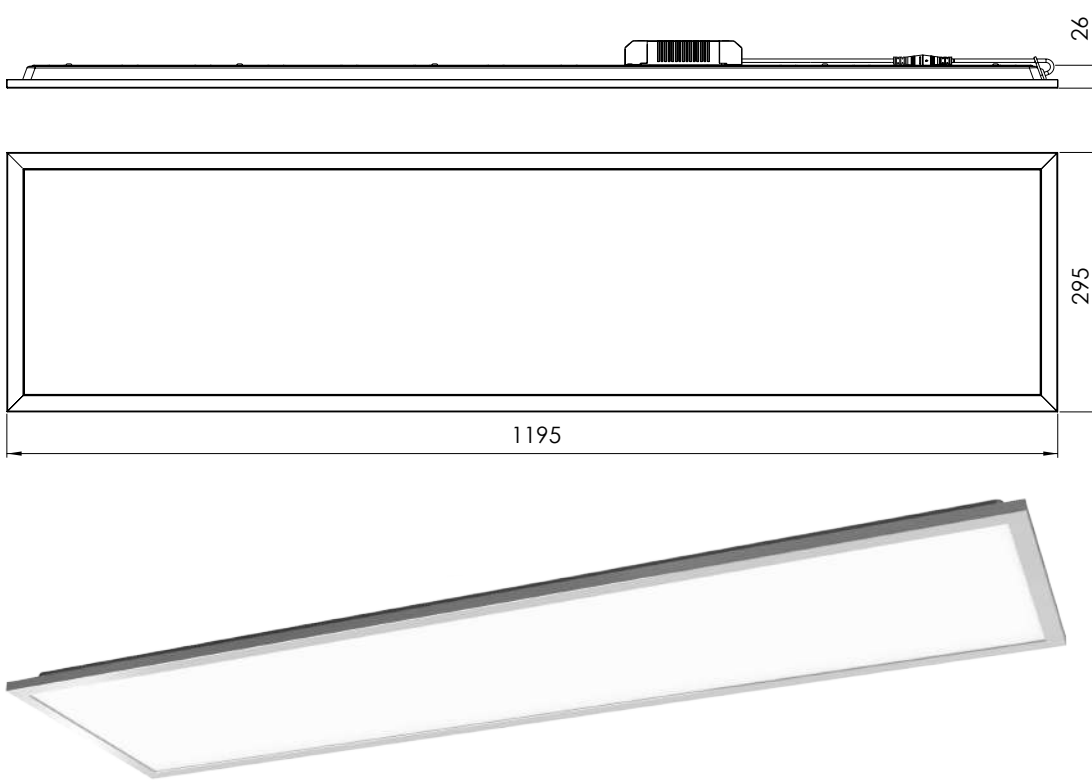
800\* -original setting for 36W options.  
Different driver output current settings out of this range is not allowed.

## DALI-DIM DIAGRAM

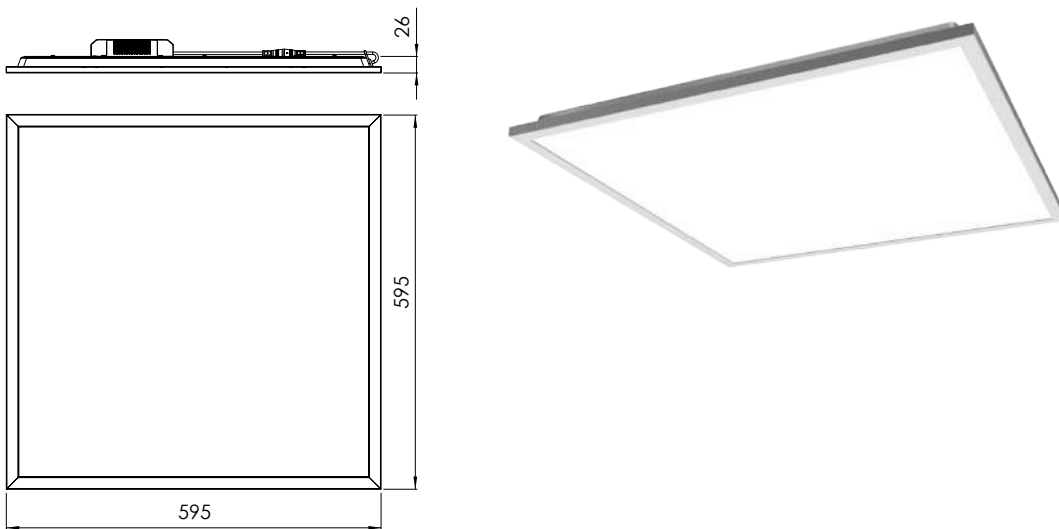


## Dimensions (mm)

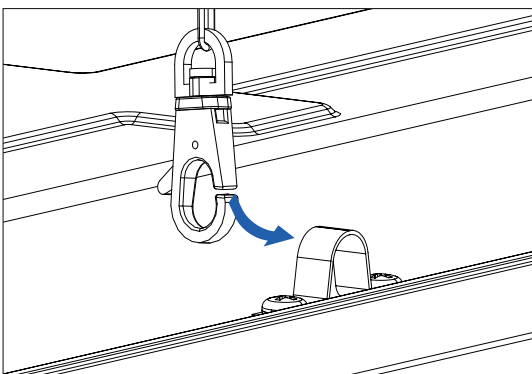
1x4



2x2

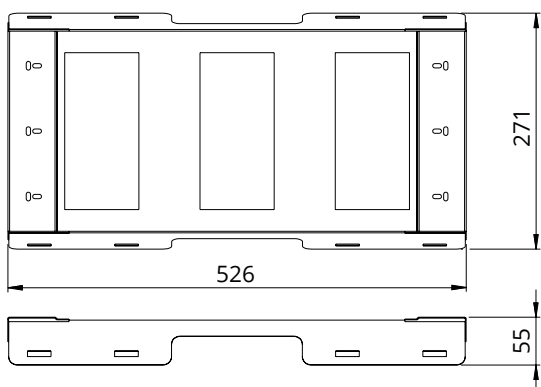
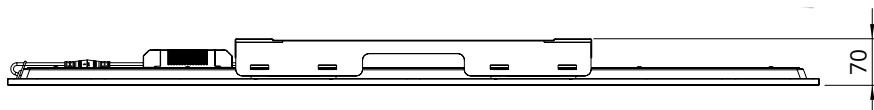


## Safety Hook

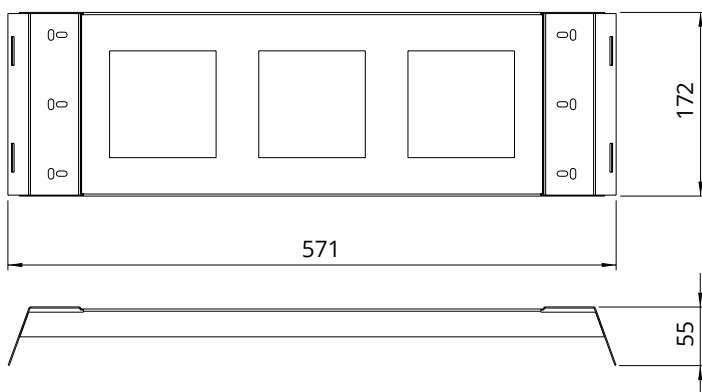
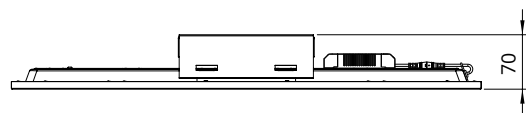


(cable can be ordered as a separate accessory)

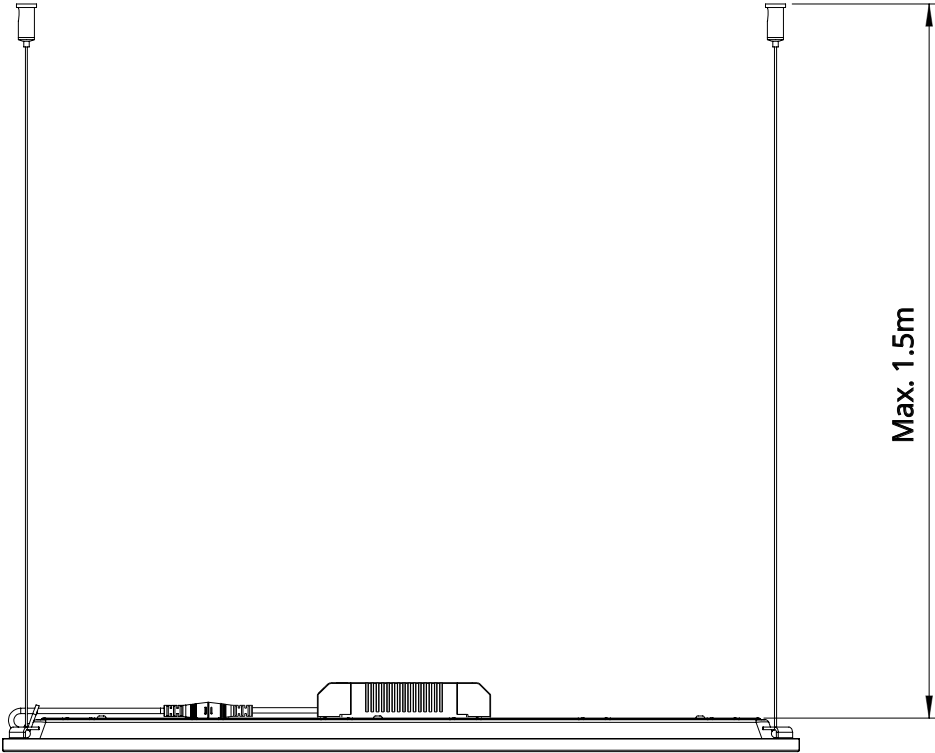
**Accessories**  
Surface mount  
1x4



**Surface mount**  
2x2



Suspension kit



Junction Box



## Regulatory and standards

**Regulatory mark:** CE, UKCA, Morocco

**Regulations:** 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU 2019/2020, (framework EU/2017/1369) EU 2019/2015\*

**Harmonized standards:** EN 60598, EN 62493, EN 61547, EN55015, EN 61000, look for CE Declaration of Conformity and Technical File for details

Photobiological risk assessment is maximum group 1. The product is considered safe, does not pose any photobiological hazard  
\*not on DOC

