

Edgelit Premium Panel



Product information

Tungsräm LED luminaires transform ambient lighting into an exquisite balance of refined appearance and superior efficiency. When illuminated, the panels deliver exceptional uniform light to the space and while off they appear completely free of a visible light source. Designed to replace fluorescent fixtures in suspended T grid ceilings.

Features and Benefits

LED technology

- Long life
- Energy efficient (up to 120 lm/W delivered at 4000K & 6500K)
- No pollution for the environment
- RoHS compliant
- Mercury free, no IR or UV radiation
- Two types of Unified Glare Rating (UGR) as per different applications' requirements UGR <19 & UGR 21

Control

- Available with static or Dali driver

Uniform illuminated surface

- No visible diodes or glare
- Superior performance
- Broad uniform light distribution, reducing the number of luminaires needed to light a space

Slim profile

- Can be used in ceilings with limited space

Long life (50,000 hours at L70)

- Reduces the need for frequent lamp changes

Durable

- Resistant to vibration and impact

No IR or UV radiation

- Suitable for lighting fragile objects in shops, museums or on display

Easy to install into 15mm or 24mm exposed tee grid ceilings

Application areas



General lighting



Retail



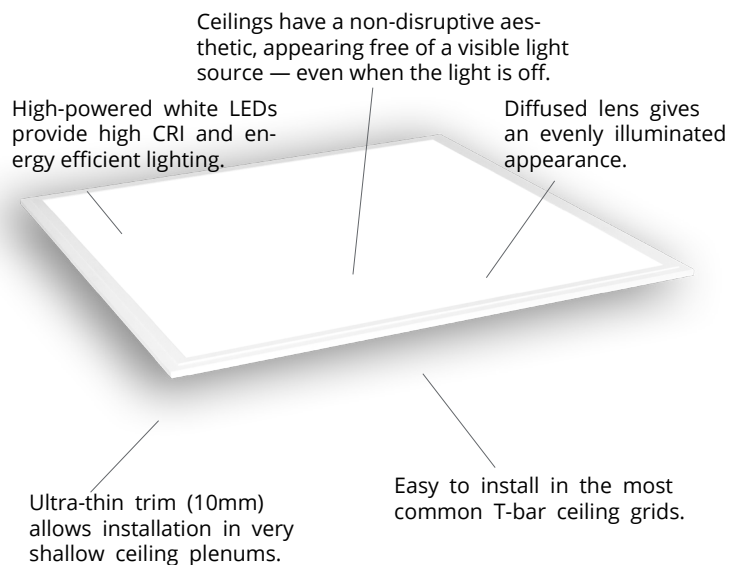
Office



Education



Healthcare



Specification summary

Product Code	Product Code (DS)	Description Code	Watt. (W)	Lumen (Lm)	Efficiency (lm/W)	CCT (K)	Beam pattern (°)	UGR value	Driver	IP rating (front)	Product thickness (mm)
Size 595x595mm											
93101657	-	LED Panel P1 TU 2x2 S 30W 830 21	30	3400	113	3000	110	21	static	40	10
93101659	-	LED Panel P1 TU 2x2 S 30W 830 19	30	3200	107	3000	80	<19	static	40	10
93101658	93103650	LED Panel P1 TU 2x2 S 30W 840 21	30	3600	120	4000	110	21	static	40	10
93101660	93103651	LED Panel P1 TU 2x2 S 30W 840 19	30	3400	113	4000	80	<19	static	40	10
93107537	93103675	LED Panel P1 TU 2x2 S 30W 865 21	30	3600	120	6500	110	21	static	40	10
93107539	93103677	LED Panel P1 TU 2x2 S 30W 862 19	30	3400	113	6200	80	<19	static	40	10
93101669	-	LED Panel P1 TU 2x2 D 40W 830 21	40	4200	105	3000	110	21	DALI	40	10
93101670	-	LED Panel P1 TU 2x2 D 40W 830 19	40	4200	105	3000	80	<19	DALI	40	10
93101671	93103671	LED Panel P1 TU 2x2 D 40W 840 21	40	4400	110	4000	110	21	DALI	40	10
93101672	93103672	LED Panel P1 TU 2x2 D 40W 840 19	40	4400	110	4000	80	<19	DALI	40	10
93108092	93103689	LED Panel P1 TU 2x2 D 40W 865 21	40	4800	120	6500	110	21	DALI	40	10
93108093	93103690	LED Panel P1 TU 2x2 D 40W 862 19	40	4800	120	6200	80	<19	DALI	40	10
93104960	-	LED Panel P1 TU 2x2 S 30W 840 21 IP54	30	3400	113	4000	110	21	static	54	13
93104961	-	LED Panel P1 TU 2x2 S 30W 840 19 IP54	30	3300	110	4000	80	<19	static	54	13
Size 295x1295mm											
93108083	-	LED Panel P1 TU 1x4 S 30W 830 21	30	3300	110	3000	110	21	static	40	10
93101675	-	LED Panel P1 TU 1x4 S 30W 830 19	30	3300	110	3000	80	<19	static	40	10
93107525	93103652	LED Panel P1 TU 1x4 S 30W 840 21	30	3300	110	4000	110	21	static	40	10
93107526	93103653	LED Panel P1 TU 1x4 S 30W 840 19	30	3300	110	4000	80	<19	static	40	10
93107538	93103676	LED Panel P1 TU 1x4 S 30W 865 21	30	3300	110	6500	110	21	static	40	10
93107540	93103678	LED Panel P1 TU 1x4 S 30W 865 19	30	3300	110	6500	80	<19	DALI	40	10
93108080	-	LED Panel P1 TU 1x4 D 40W 830 21	40	4200	105	3000	110	21	DALI	40	10
93101674	-	LED Panel P1 TU 1x4 D 40W 830 19	40	4000	100	3000	80	<19	DALI	40	10
93108081	93103673	LED Panel P1 TU 1x4 D 40W 840 21	40	4500	113	4000	110	21	DALI	40	10
93108082	93103674	LED Panel P1 TU 1x4 D 40W 840 19	40	4000	100	4000	80	<19	DALI	40	10
93108094	93103691	LED Panel P1 TU 1x4 D 40W 865 21	40	4200	105	6500	110	21	DALI	40	10
93108095	93103692	LED Panel P1 TU 1x4 D 40W 865 19	40	4200	105	6500	80	<19	DALI	40	10
93104956	-	LED Panel P1 TU 1x4 S 59W 840 21 HO	59	6300	107	4000	110	21	static	40	10
93104957	-	LED Panel P1 TU 1x4 S 59W 840 19 HO	59	5900	100	4000	80	<19	static	40	10
Size 595x1295mm***											
93104958	-	LED Panel P1 TU 2x4 S 59W 840 21/2	59	6300	107	4000	110	21	static	40	13
93104959	-	LED Panel P1 TU 2x4 S 59W 840 19/2	59	6000	102	4000	80	<19	static	40	13
Adjustable Accessories* / **											
93107527	93103654	SUSPENSION KIT 2X2 LED PANEL									
93107541	93103679	SUSPENSION KIT 1X4 LED PANEL									
93108104	-	Surface mounting KIT Edgelit 2x2 R9003									
93104262	-	Surface mounting KIT 2x2 R9003									
93108108	-	Surface mounting KIT Edgelit 1x4 R9003									
93104264	-	Surface mounting KIT 1x4 R9003									
93107567	93103721	Plasterboard Mount KIT for Edgelit									

* accessories to be ordered separately

** not applicable with IP54 and 595x1195mm panels

*** available in brown twinbox package

Common attributes

- **Rated life L70:** 50 000hrs
- **CRI:** 80+

Specifications

	2x2 (595x595mm)		1x4 (295x1195mm)		1x4 HO (295x1195mm)	2x4 (595x1195mm)	2x2 IP54 (595x595mm)
Input Voltage (AC) (V)	220...240						
Control	Static	DALI	Static	DALI	Static	Static	Static
Power Consumption (typical) (W)	30	40	30	40	59	59	30
Input Frequency (Hz)	50/60						
Power Factor	Min 0.9						
CCT (K)	3000/4000/6500				4000		
CRI (color rendering index)	Min 80						
Ceilings	T Grid Lay-In / Suspended / Surface mounted					T Grid Lay-In	
Life (h)	50,000						
Lumen Maintenance	L70@B50						
Warranty period	5 years (20 000 hours)						
Files Available	LM79, IES, LDT						
Panel Dimension (mm)	595*595*10		295*1195*10			595*1195*13	595*595*13
Driver Dimension (mm)	200*40*22	215*70*31	200*40*22	215*70*31	235*43*32	235*43*32	200*40*22
Total Weight (Kg)	3.22	3.30	3.22	3.30	2.8	6.5	3.6
Panel weight (Kg)	3.10	3.10	3.10	3.10	2.5	6.2	3.48
Driver weight (Kg)	0.12	0.20	0.12	0.20	0.3	0.3	0.12
Operating Temperature range (°C)	-10C .. +40C degree						
Humidity (Non condensing)	20 to 80 % Non-condensing, dry location						
Storage Temperature Range (°C)	-40 degree C..+60 degree C						
Isolation Class	Class II						
IP rating (general panel)	IP40					IP54	
IP rating Driver	IP20						
Product color	RAL 9003						
Material	Powder coated AL profile frame. Back plate: Thin coated steel or white powder coated.						
Waveguide	PMMA						
Diffuser material	PG-383				PC	PG-383	

Regulatory and standards

Regulatory mark: CE

Regulations: 2014/35/EU, 2014/30/EU, 2011/65/EU, (framework 2009/125/EC) EU/1194/2012 amended by EU 2015/1428, (framework 2010/30/EC) 874/2012 and 518/2014*, 2012/19/EU*

Harmonized standards: EN 60598, EN 62493, EN 61547, EN55015, EN 61000,

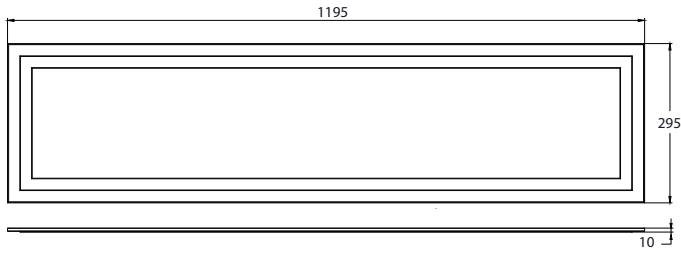
look for CE Declaration of Conformity and Technical File for details

Photobiological risk assesment group 0. The product is considered safe, does not pose any photobiological hazard

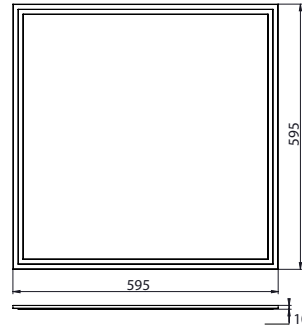
*not on DOC

Dimensions (mm)

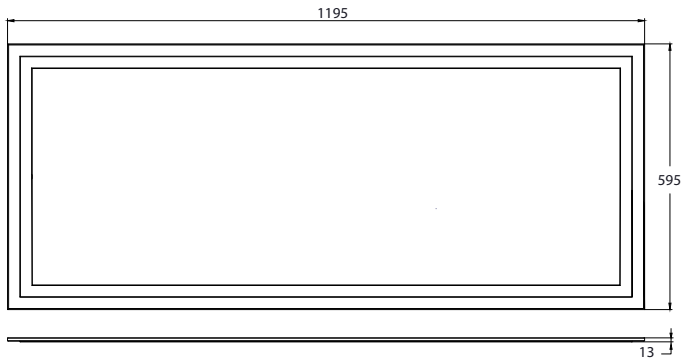
Panel 1x4



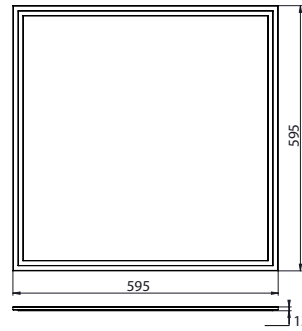
Panel 2x2



Panel 2x4



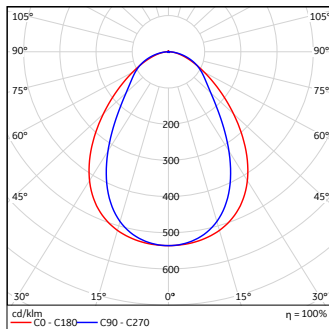
Panel 2x2 IP54



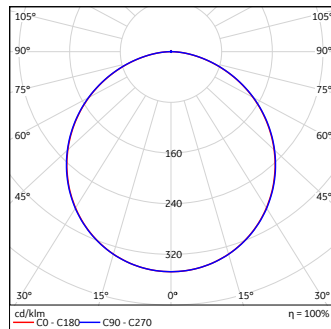
Photometric data

4000K

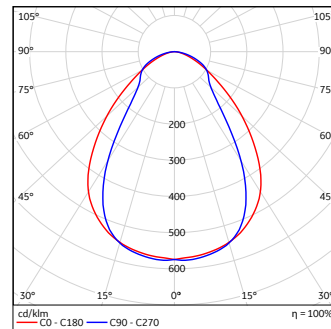
2x2 panel - Static



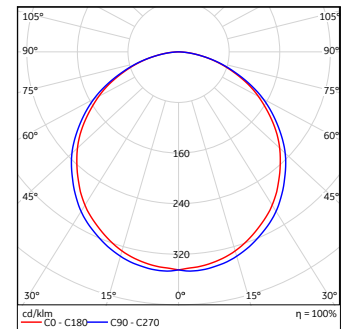
2x2 UGR19



2x2 UGR21

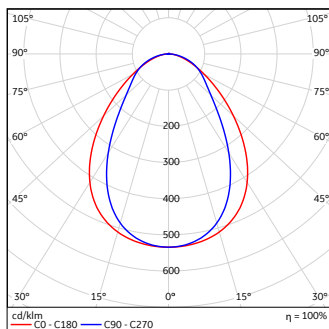


1x4 UGR19

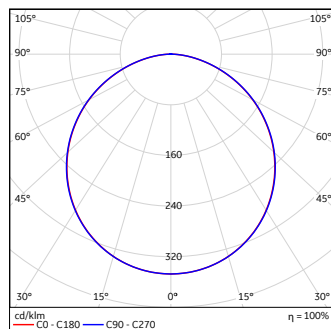


1x4 UGR21

2x2 panel - DALI

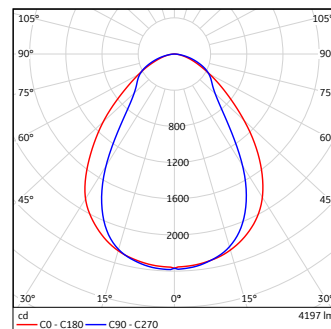


2x2 UGR19

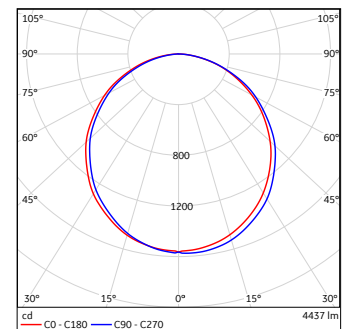


2x2 UGR21

1x4 panel - DALI

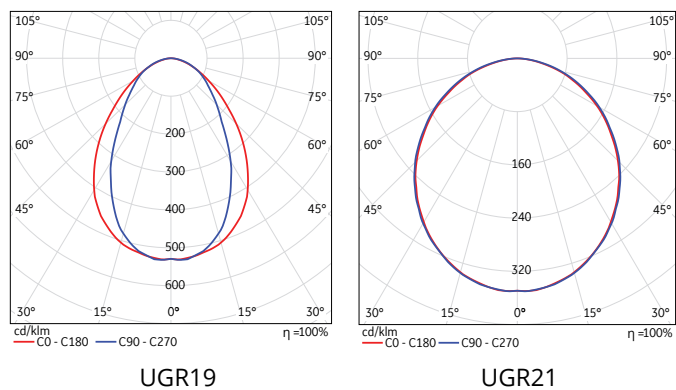


1x4 UGR19



1x4 UGR21

2x2 static Edgelit panel light intensity distribution curves for emergency mode



Photometry is based on LM79

Order logic

Internal Code	Range	Generation	Brand	Fixture size	Control	System W	CRI	CCT	UGR	Shipment / other	Pack type
LED Panel	P - Premium	1 - Generation 1	TU - TUNGSRAM	2x2 - 595x 595mm	D - DALI S - STATIC	30W	8-80	30-3000K	21 - UGR21 19 - <UGR19	DS - Direct Shipment IP54 - IP54 rating HO - High output version	/2 - 2PCS per box
				1x4 - 295x 1195mm		40W		40-4000K			
				2x4 - 595x 1195mm		59W		40-4000K			
								62-6200K			
							65-6500K				

