



The Brighter Choice



**STERLING PRO**  
Efficient. Versatile. Reliable.

# STERLING PRO

STERLING PRO is our flagship LED panel. It's full of features, energy efficient and suitable for a wide range of projects.

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# STERLING PRO

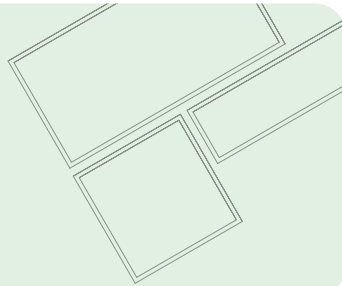
## KEY FEATURES

STERLING PRO uses the latest back-lit LED technology, mounted in a slim (34mm), white painted rigid steel body.

### SIZE

STERLING PRO is available in 3 sizes:

- 600 x 600
- 1200 x 300
- 1200 x 600



### COLOUR TEMPERATURE

STERLING PRO is available with a choice of 3000K, 4000K and 6000K.

**3000K, 4000K and 6000K**

### WATTAGES

At each size, STERLING PRO is available with a choice of either a high or a low wattage driver, and each driver is wattage selectable. So, for each fitting size there are up to 8 available wattages.

**11-21W, 11-28W, 11-40W, 17-28W, 17-40W**

### HIGH COLOUR RENDERING

For most applications CRI>80 is perfectly adequate, but for specialist applications STERLING PRO is available in CRI>90. See page 4 for details.



### LOW GLARE

Two front covers are available, both TP(a) rated:

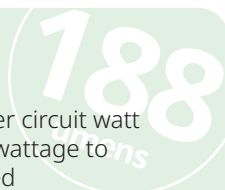
- Opal diffuser, with a 110° beam angle
- Micro-prismatic controller, with a 90° beam angle, suitable for projects needing a lower glare (typically UGR<19) solution. See page 5 for details.

### INSTALLATION OPTIONS

- Lay-in, for exposed grid ceilings
- Pull-up, for plasterboard ceilings, using a recessed mounting kit
- Surface mount, using a surface mounting kit
- Suspended, using a suspension mounting kit

### EFFICIENT

- Up to 188 luminaire lumens per circuit watt
- Power selectable – adjust the wattage to deliver just the lumens required
- Dimmable – available with a range of dimming and control options



### RELIABLE

- Long life - 100,000 hours rated life
- Low depreciation - L80. At the end of its rated life STERLING PRO will still deliver at least 80% of its initial output.
- 7-year warranty



**Note – not all options are available in all combinations. Please check our website or call our technical team on +44 (0)121 457 6340 for details.**



# WHAT IS CRI & WHY DOES IT MATTER?

Colour rendering index (CRI) is a measure of the quality of white light.

Sunlight contains a balanced proportion of all the visible wavelengths (colours) of light. This is CRI 100, and when objects are illuminated with light of this quality we are able to distinguish every subtle shade of colour. Ideally, this is the light quality we would have when painting a picture, choosing what shirt to buy or arranging a bouquet of flowers.

In most applications, such as offices, classrooms and hospital corridors, light with CRI >80 is perfectly good enough, as recommended by BS EN12464. Subtle differences between some shades of colour might not be visible, but it's more than good enough for most purposes.

For some specialist applications, a CRI higher than 90 is recommended by EN12464, and for these the STERLING PRO with CRI>90 is available.



A doctor, looking for a rash, needs CRI>90 lighting in the consulting room for an accurate diagnosis.



The art room in a school should have CRI>90 lighting, so students can use the full palette of colours with confidence.



Trying to choose a shirt or a blouse? A good retailer will be using lighting with a CRI>90 where clothes are displayed, and in the changing rooms.



# WHAT IS UGR & WHY DOES IT MATTER?

Unified glare rating (UGR) is an objective measure of the risk that occupants of a building will experience glare. UGR relates to an installation, but it is heavily influenced by the design of the light fittings used.

BS EN12464 recommends maximum UGR values for different applications, and  $UGR < 19$  is recommended for most offices and classrooms.

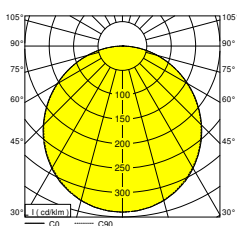
STERLING PRO is available with a choice of an opal diffuser and a micro-prismatic controller.

With the opal diffuser STERLING PRO has a very wide beam angle -  $110^\circ$ . This is great for delivering high levels of uniformity, but if glare is a concern we need something different.

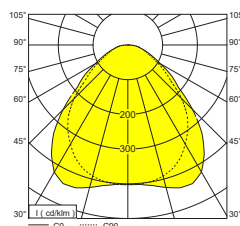
With a micro-prismatic controller STERLING PRO has a narrower,  $90^\circ$ , beam angle. In most situations this will deliver an installation with a  $UGR < 19$ .



OPAL DIFFUSER



UGR<19  
MICROPRISMATIC  
CONTROLLER





# EMERGENCY

All STERLING PRO variants can be converted on-site to 3 hours emergency with our popular conversion kits.

These are plug and play units that can be used across our entire range of LED panels, including STERLING PRO, and downlights. There are three versions of our conversion kits – manual test, self-test and DALI addressable test.

**All emergency conversion kits have a 7 year warranty - including the batteries.**

## Emergency testing – what are the options?



### MANUAL TEST

- A key switch is required
- Because testing, checking and record keeping are all manual operations, manual testing has high running costs.
- Recommended for small projects only

### SELF-TEST

- No key switch required
- Testing is automatic, but record keeping is still manual and therefore expensive.
- On small to medium-sized projects self-test gives a rapid payback

### DALI ADDRESSABLE TEST

- Fully automated testing, reporting and recording
- The lowest running cost of all the available solutions
- Add HubSense for wire-free operation & low install costs.
- A great solution for larger projects

	EMERGENCY TEST METHOD			
	MANUAL	SELF-TEST	DALI ADDRESSABLE	HUBSENSE ADDRESSABLE
Testing	Manual	Automatic	Automatic	Automatic
Scheduling	No	No	Yes	Yes
Recording	Manual	Manual	Automatic	Automatic
Reporting	Manual	Manual	Automatic	Automatic



# LIGHTING CONTROLS

STERLING PRO is available with a full range of dimming control options.

## Corridor function (CF)

With the CF option, STERLING PRO is ready for dim-to-10%, which is widely used for corridors linked to a sensor in an adjoining office. So long as there is movement in the office the corridor outside stays on at 10%. When anyone moves into the corridor the lighting there dims up.

## Digital Dimming (DD)

STERLING PRO with the DD option will support DALI and switch-dim (manual dimming with a retractive switch).

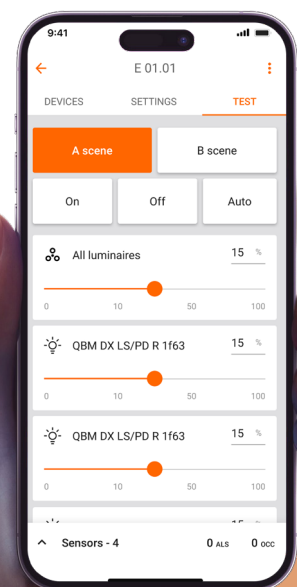


## HubSense (HS)

HubSense is a wireless lighting control system using Bluetooth mesh networking technology. It can be used for:

- Lighting control – including dimming, scene setting, daylight harvesting etc, and
- Addressable emergency lighting testing

HubSense is simple to install because it does not require extra wires, as in a conventional DALI installation. It is simple to commission too, using a free app on your phone or tablet. If required, a gateway can be installed that gives remote access to the system – useful for monitoring emergency fittings across multiple sites and for remote diagnostics.



UGR<19 600x600mm

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-21/UGR/66/830	595 x 595	11-21	UGR<19	>80	3000
NST11-21/UGR/66/840	595 x 595	11-21	UGR<19	>80	4000
NST11-21/UGR/66/860	595 x 595	11-21	UGR<19	>90	6000
NST17-28/UGR/66/830	595 x 595	17-28	UGR<19	>90	3000
NST17-28/UGR/66/840	595 x 595	17-28	UGR<19	>80	4000
NST17-28/UGR/66/860	595 x 595	17-28	UGR<19	>80	6000

UGR<19 600x600mm DD

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-28/UGR/66/DD/830	595 x 595	11-28	UGR<19	>80	3000
NST11-28/UGR/66/DD/840	595 x 595	11-28	UGR<19	>80	4000
NST11-28/UGR/66/DD/860	595 x 595	11-28	UGR<19	>90	6000

UGR<19 1200x300mm

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-21/UGR/123/830	1195 x 295	11-21	UGR<19	>80	3000
NST11-21/UGR/123/840	1195 x 295	11-21	UGR<19	>80	4000
NST11-21/UGR/123/860	1195 x 295	11-21	UGR<19	>90	6000
NST17-28/UGR/123/830	1195 x 295	17-28	UGR<19	>90	3000
NST17-28/UGR/123/840	1195 x 295	17-28	UGR<19	>80	4000
NST17-28/UGR/123/860	1195 x 295	17-28	UGR<19	>80	6000

UGR<19 1200x300mm DD

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-28/UGR/123/DD/830	1195 x 295	11-28	UGR<19	>80	3000
NST11-28/UGR/123/DD/840	1195 x 295	11-28	UGR<19	>80	4000
NST11-28/UGR/123/DD/860	1195 x 295	11-28	UGR<19	>90	6000

UGR<19 1200x600mm

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST17-40/UGR/126/830	1195 x 595	17-40	UGR<19	>80	3000
NST17-40/UGR/126/840	1195 x 595	17-40	UGR<19	>80	4000
NST17-40/UGR/126/860	1195 x 595	17-40	UGR<19	>90	6000

UGR<19 1200x600mm DD

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-40/UGR/126/DD/830	1195 x 595	11-40	UGR<19	>80	3000
NST11-40/UGR/126/DD/840	1195 x 595	11-40	UGR<19	>80	4000
NST11-40/UGR/126/DD/860	1195 x 595	11-40	UGR<19	>90	6000

OPAL 600x600mm

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-21/O/66/840	595 x 595	11-21	OPAL	>80	4000
NST17-28/O/66/840	595 x 595	17-28	OPAL	>80	5000

OPAL 600x600mm DD

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-28/O/66/DD/840	595 x 595	11-28	OPAL	>80	4000

OPAL 1200x600mm

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST17-40/O/126/840	1195 x 595	17-40	OPAL	>80	4000

OPAL 1200x600mm DD

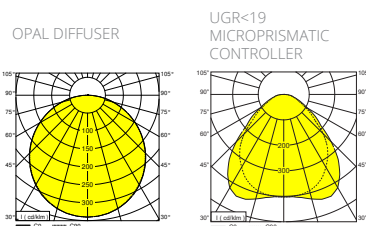
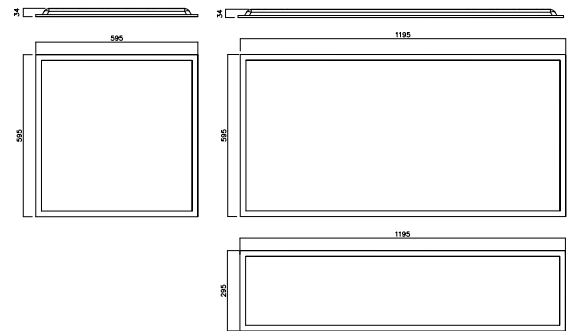
ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-40/O/126/DD/840	1195 x 595	11-40	OPAL	>80	4000

CRI 90 UGR<19 600x600mm

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-21/UGR/66/940	595 x 595	11-21	UGR<19	>90	4000
NST11-21/UGR/66/960	595 x 595	11-21	UGR<19	>90	6000
NST17-28/UGR/66/940	595 x 595	17-28	UGR<19	>90	4000
NST17-28/UGR/66/960	595 x 595	17-28	UGR<19	>90	6000

CRI 90 UGR<19 600x600mm DD

ORDER CODE	DIMENSIONS	POWER (W)	OPTICS	CRI	CCT (K)
NST11-28/UGR/66/DD/940	595 x 595	11-28	UGR<19	>90	4000
NST11-28/UGR/66/DD/960	595 x 595	11-28	UGR<19	>90	6000



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