

## Extrude Linear Remote Phosphor Development Kit

IILK-PHOSPHOR-LIN####-4000-01.



Part Number	Description
ILK-PHOSPHOR-LIN0150-4000-01.	1x 150mm Mid Power Deep Blue Strip 16, 1x Linear Heat Sink, 1x 150mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 150mA driver
ILK-PHOSPHOR-LIN0300-4000-01.	1x 300mm Mid Power Deep Blue Strip 32, 1x Linear Heat Sink, 1x 300mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 350mA driver
ILK-PHOSPHOR-LIN0450-4000-01.	1x 450mm Mid Power Deep Blue Strip 48, 1x Linear Heat Sink, 1x 450mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 500mA driver
ILK-PHOSPHOR-LIN0600-4000-01.	1x 600mm Mid Power Deep Blue Strip 64, 1x Linear Heat Sink, 1x 600mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 350mA driver
ILK-PHOSPHOR-LIN0900-4000-01.	1x 900mm Mid Power Deep Blue Strip 96, 1x Linear Heat Sink, 1x 900mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 500mA driver
ILK-PHOSPHOR-LIN1200-4000-01.	1x 1200mm Mid Power Deep Blue Strip 128, 1x Linear Heat Sink, 1x 1200mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 700mA driver
ILK-PHOSPHOR-LIN1500-4000-01.	1x 1500mm Mid Power Deep Blue Strip 160, 1x Linear Heat Sink, 1x 1500mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 1050mA driver
ILK-PHOSPHOR-LIN1800-4000-01.	1x 1800mm Mid Power Deep Blue Strip 192, 1x Linear Heat Sink, 1x 1800mm piece of extruded remote phosphor, 2x plastic end caps with 4xM3 screws and 1050mA driver
ILK-_____	Please contact ILS if you require another solution

### Kit Contents – Extruded Linear Remote Phosphor Kits are supplied pre-assembled

#### 150mm Kit:

- 1x 150mm Strip containing 16 Deep Blue Duris P5 LEDs – ILS-P516-0150-SC201-WIR200.
- 1 x ChromaLit Linear Remote Phosphor 150mm 4000k - CL-840-LIN01-PC0-0150R.
- 1x 150x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-0150.
- 1x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 1x 150mm Thermal Interface Material Strip bonded to PCB – ILA-TIM-STRIP-0150-1E
- 1x 150mA Constant Current LED Driver – IZC015-005F-0067C-QA

### 300mm Kit

- 1 x 300mm Strip containing 32 Deep Blue Duris P5 LEDs - ILS-P532-0300-SC201-WIR200.
- 1 x ChromalIt Linear Remote Phosphor 300mm 4000k - CL-840-LIN01-PC0-0300R.
- 1 x 300x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-0300.
- 1 x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1 x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 1 x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1 x 350mA Constant Current LED Driver - IZC035-008F-5065C-SA

### 450mm Kit

- 1 x 300mm Strip containing 32 Deep Blue Duris P5 LEDs- ILS-P532-0300-SC201-WIR200.
- 1 x 150mm Strip containing 16 Deep Blue Duris P5 LEDs - ILS-P516-0150-SC201.
- 1 x ChromalIt Linear Remote Phosphor 450mm 4000k - CL-840-LIN01-PC0-0450R.
- 1 x 450x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-0450.
- 1 x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1 x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 1 x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1 x 150mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0150-1E
- 1 x 500mA Constant Current LED Driver - IZC050-018T-9500A-SA

### 600mm Kit

- 2x 300mm Strip containing 32 Deep Blue Duris P5 LEDs- ILS-P532-0300-SC201-WIR200.
- 1 x ChromalIt Linear Remote Phosphor 600mm 4000k - CL-840-LIN01-PC0-0600R.
- 1 x 600x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-0600.
- 1 x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1 x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 2x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1 x 350mA Constant Current LED Driver - IZC035-035F-9067C-QA

### 900mm Kit

- 3x 300mm Strip containing 32 Deep Blue Duris P5 LEDs- ILS-P532-0300-SC201-WIR200.
- 1 x ChromalIt Linear Remote Phosphor 900mm 4000k - CL-840-LIN01-PC0-0900R.
- 1 x 900x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-0900.
- 1 x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1 x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 3x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1 x 500mA Constant Current LED Driver - IZC050-060F-9067C-QA

## 1200mm Kit

- 4x 300mm Strip containing 32 Deep Blue Duris P5 LEDs- ILS-P532-0300-SC201-WIR200.
- 1 x ChromaLit Linear Remote Phosphor 1200mm 4000k - CL-840-LIN01-PC0-1200R.
- 1x 1200x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-1200.
- 1x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 4x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1x 700mA Constant Current LED Driver - IZC070-050A-9267C-SA

## 1500mm Kit

- 5x 300mm Strip containing 32 Deep Blue Duris P5 LEDs- ILS-P532-0300-SC201-WIR200.
- 1 x ChromaLit Linear Remote Phosphor 1500mm 4000k - CL-840-LIN01-PC0-1500R.
- 1x 1500x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-1500.
- 1x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 5x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1x 1050mA Constant Current LED Driver - IZC105-060F-9067C-QA

## 1800mm Kit

- 6x 300mm Strip containing 32 Deep Blue Duris P5 LEDs- ILS-P532-0300-SC201-WIR200.
- 1 x ChromaLit Linear Remote Phosphor 1800mm 4000k - CL-840-LIN01-PC0-1800R.
- 1x 1800x24x19mm extruded linear heat sink - ILA-EXTRUSION-01-1800.
- 1x linear remote phosphor end cap white - PLS-CI308-9036-01
- 1x linear remote phosphor end cap white + cable gland - PLS-CI308-9036-02
- 6x 300mm Thermal Interface Material Strip bonded to PCB - ILA-TIM-STRIP-0300-1E
- 1x 1050mA Constant Current LED Driver - IZC105-060F-9067C-QA

## For Further Information – please visit

ILS-P516-DEBL-SC201-WIR200. – 16 Duris P5 150mm Linear strip

ILS-P532-DEBL-SC201-WIR200. – 32 Duris P5 300mm Linear strip

[ILA-EXTRUSION-01-#### - Remote Phosphor Extruded Heat Sink](#)

CL-840-LIN01-PC0-####R – ChromaLit Co-extruded linear remote phosphor

## Powering Up the Remote Phosphor Kit

Connect to the supplied driver red-red and black-black using connector blocks or alternative (not supplied). Connect driver wires Brown and Blue to mains (100-240V) using suitable mains plug (not supplied). Always connect the Linear Remote Phosphor to the driver before plugging in the driver.

To download more information on the Linear Remote Phosphor LED Engine and kit, please consult this link [www.i-led.co.uk/kit/LinearRemotePhosphor](http://www.i-led.co.uk/kit/LinearRemotePhosphor)

## CAUTION

- Never touch the LEDs as they are delicate and easy to damage physically and electronically
- Do not connect directly to mains (100-240V) – always use the driver provided. Do not hot plug into the driver.

## Important Information and Precautions

- The Linear Remote Phosphor LEDs, when powered up are very bright. Thus it is advised that you do not look directly at it. Turn the Linear Remote Phosphor away from you and do not shine into the eyes of others.
- Do not operate Linear Remote Phosphor with a Power Supply with unlimited current. Connection to constant voltage Power Supplies that are not current limited may cause the Linear Remote Phosphor to consume current above the specified maximum and cause failure or irreparable damage.
- Linear Remote Phosphors, when operated, can reach high temperatures thus there is risk of injury if they are touched.
- DO NOT HOT PLUG ON LED SIDE OF POWER SUPPLY.
- DO NOT TOUCH or PUSH on the LED as this can cause irreparable damage.

## Safety Information

- In order to optimise the thermal management, the metal surface needs to be clean (dirt and oil free) and planar for the best contact with the LED module. A thermal grease or heat transfer material is highly recommended.
- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- The mounting of the module is carried out by attaching it at the mounting holes. Metal mounting screws must be insulated with synthetic washers to prevent circuit board damage and possible short circuiting.
- To avoid mechanical damage to the connecting cables, the boards should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Observe correct polarity!
- Depending on the product, incorrect polarity will lead to emission of red or no light. The module can be destroyed!
- Pay attention to standard ESD precautions when installing the Petunia.
- The Linear Remote Phosphor, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion.
- The evaluation of eye safety occurs according to the standard IEC 62471:2006 ("photobiological safety of lamps and lamp systems"). Within the risk grouping system of this CIE standard, the LED specified in this data sheet falls into the class "moderate risk" (exposure time 0.25s). Under real circumstances (for exposure time, eye pupils, observation distance), it is assumed that no endangerment to the eye exists from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect. As is also true when viewing other bright light sources (e.g. headlights), temporary reduction in visual acuity and afterimages can occur, leading to irritation, annoyance, visual impairment and even accidents, depending on the situation.

## For further information please contact ILS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.