



The Perfect Fit

Philips InteGrade LED Fixture System – compact linear LED lighting for standard-size shelves

The InteGrade LED fixture system is an energy-efficient way¹ to create an enjoyable shopping experience. Thanks to its compact dimensions, the fixture can be aesthetically integrated below and inside shelves, e.g. in a store interior or refrigerated cabinet. Asymmetrical optics direct the light where you want it, thus making optimum use of the light and energy. The products or background you want lit will be presented uniformly, with reduced glare and dark spots. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long lifetime. InteGrade LED is an ideal solution for high-quality lighting without flicker or color differences. The fixture consists of a profile with LED engines and inline locks. Mounting accessories, cables and LED power driver are available separately.

Key Benefits and Features

Excellent Total Cost of Ownership

- Potential energy savings of up to 65%¹

Aesthetic integration of LED lighting; uniform light distribution

- Superb asymmetrical optics

Easy to install: the fixtures have standard dimensions and so fit most commonly used shelves

- InteGrade cabling allows connection to own connector system

Philips 5-year limited warranty²

- Includes InteGrade LED fixture in combination with Philips cables and Philips LED power driver)

Applications

Shelf and linear accent lighting for:

- supermarkets
- refrigerated cabinets
- retail environments
- libraries
- museums



PHILIPS

InteGrade LED fixture system

The InteGrade LED engine system consists of different components which are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in. The system includes InteGrade LED engines, Xitanium drivers and mounting accessories

Specifications

- The rated average life of the fixtures, in combination with a Philips LED power driver, is B50L70 at 50,000 hours (70% lumen maintenance). This rated average life is based on engineering data testing and probability analysis.
- Operating temperature (performance) min - 30 °C / max +30 °C
- Storage temperature min -30 °C / max +60 °C
- Housing color: aluminum
- Safety Extra Low Voltage (SELV); safety is ensured even if wiring or units become damaged (only when a SELV-rated power supply is used)
- Compliance and approval: ENEC³, UL⁴, CE⁵, RoHS⁶, NSF and EU directive 2002/95/EC
- The fixtures are suitable for the described applications on condition of typical use in dry and damp locations.

Simple installation

The InteGrade LED fixture comprises a profile with one or more LED engines, one or more connectors, and inline locks. The power cable and driver have to be ordered separately.

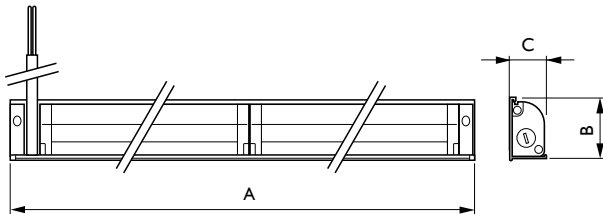
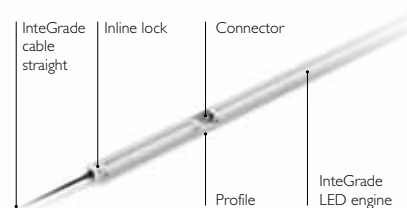


Installation advice

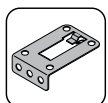
We advise you to consult our website for the latest up-to-date information and important detailed installation instructions. See www.philips.com/ledrefrigeration.

Dimensions InteGrade LED engines

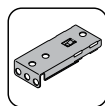
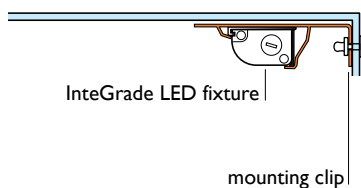
InteGrade LED engines	Dimensions (inches)		
	A	B	C
InteGrade LED fixture value 875mm(34")	34.8	0.9	0.5
InteGrade LED fixture value 1175mm(46")	46.4	0.9	0.5



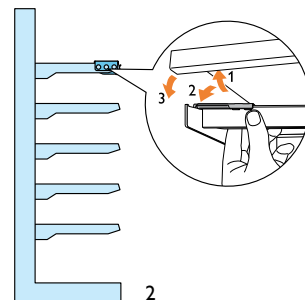
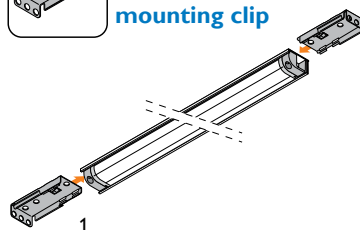
Installation examples



Installation of a LED fixture with mounting clip

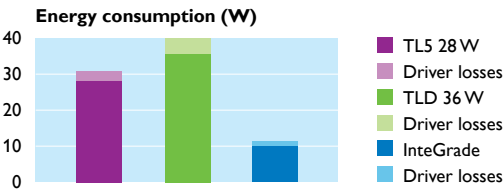


Installation example with shelf-arm mounting clip

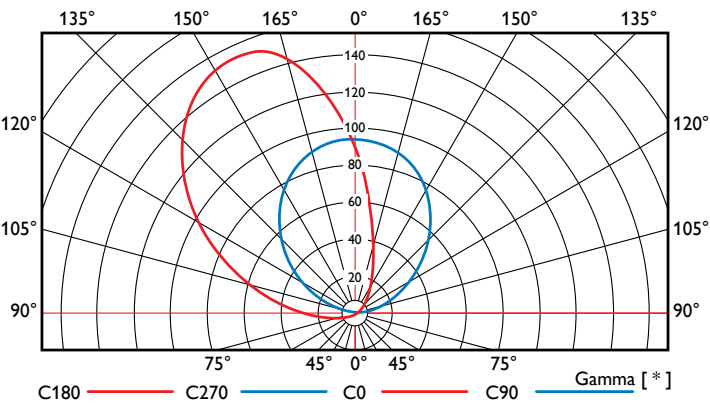


Energy savings

Energy savings are a major benefit of the InteGrade LED engines compared to TL5 and TL-D systems.



Light distribution diagram



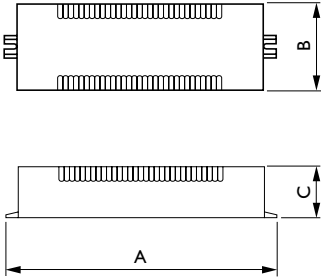
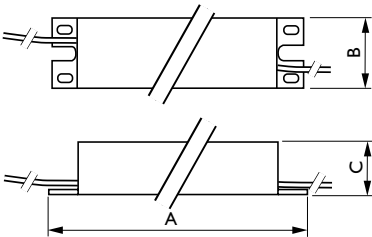
Xitanium LED power driver



Xitanium Constant Voltage Outdoor driver 80W



Xitanium Constant Voltage Outdoor driver 20W



Dimensions Xitanium LED power driver

LED power driver	Dimensions (inches)		
	A	B	C
Xitanium Constant Voltage Outdoor LED Power Driver 20W - 24V	5.9	1.5	1.1
Xitanium Constant Voltage Outdoor LED Power Driver 80W - 24V	9.5	1.7	1.2

1 When comparing energy consumption of the InteGrade 48" Fixture (10W) with a Philips 28W T5 lamp (28W).

2 Contact your local Philips Sales Representative for complete warranty details.

3 The above mentioned product has been certified on the basis of a test type according to the standard EN 62031:2008; EN 6247:2008.

4 Indicates that the LEDs are components recognized with UL and complies with UL8750 Standard for LEDs.

5. CE Declaration of conformity for Safety and Electromagnetic compatibility. Council Directive 2006/95/EC and Council Directive 2004/108/EC respectively.

6. Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.

Accessories

Power cables

The power cables are available in different lengths and colors (black and white). They are easy to connect to the engines and the driver. Specific details can be found in the design-in guide available on our website.

Mounting clips, connector and lock

There are two versions available:

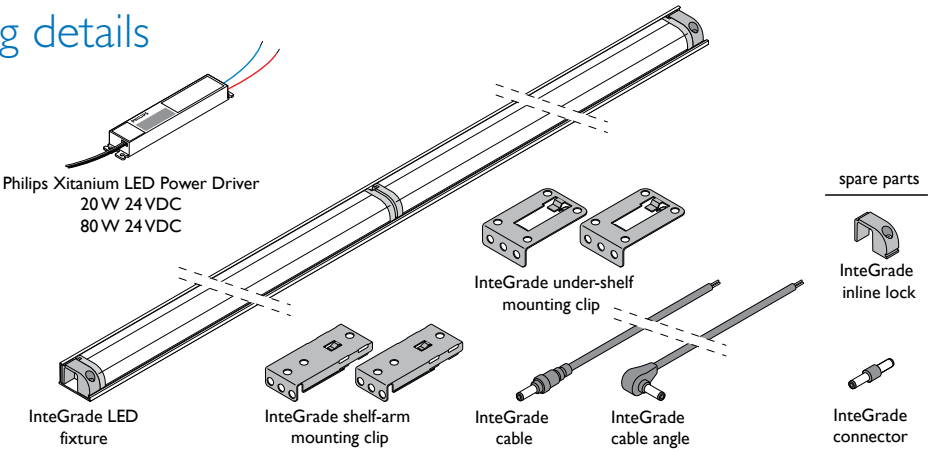
- Shelf-arm mounting clip
- Under-shelf mounting clip

These clips can be easily clicked onto the InteGrade LED fixture.

Spare parts

The connector and inline lock are already included in the LED fixture. The connector is used to electrically connect two LED engines. The inline lock fixes the engine in its profile.

Ordering details



Wattage and lighting characteristics InteGrade LED fixture⁷

	Color Temp (K) ⁸	Wattage (W) ⁹	Approx. Lumens ^{10,11}	CRI ¹²	Ordering Code
Value plus range (regular lumen output)					
InteGrade LED fixture value 875mm(34") 830	3000	8	600	85	929000645913
InteGrade LED fixture value 875mm(34") 835	3500	8	600	85	929000655513
InteGrade LED fixture value 875mm(34") 840	4100	8	600	85	929000645713
InteGrade LED fixture value 1175mm(46") 830	3000	10	800	85	929000646013
InteGrade LED fixture value 1175mm(46") 835	3500	10	800	85	929000655613
InteGrade LED fixture value 1175mm(46") 840	4100	10	800	85	929000645813
Vision plus range (high lumen output)					
InteGrade LED fixture vision 875mm(34") 830	3000	15	1100	85	929000867913
InteGrade LED fixture vision 875mm(34") 835	3500	15	1100	85	929000868513
InteGrade LED fixture vision 875mm(34") 840	4100	15	1100	85	929000868013
InteGrade LED fixture vision 1175mm(46") 830	3000	20	1500	85	929000868113
InteGrade LED fixture vision 1175mm(46") 835	3500	20	1500	85	929000868613
InteGrade LED fixture vision 1175mm(46") 840	4100	20	1500	85	929000868213

7. Current Specification subject to change , for the latest specifications please contact your local Philips sales representative

8. Correlated Color Temperature with 6 SDCM range

9. Power consumption per engine may vary +/- 20%

10. Photometric testing consistent with LM79

11. 100% of all production units fall between +/-20% of listed values

12. All CRI are 80 or above

InteGrade LED fixture system

	Ordering Codes	Minimum Order Quantity
InteGrade power cables - to connect engine to driver		
InteGrade power cable 1m(39") black	929000641014	24
InteGrade power cable 2.5m(98") black	929000641114	24
InteGrade cable 1m(39") black angle	929000644614	24
InteGrade cable 2.5m(98") black angle	929000644814	24
InteGrade power cable 1m(39") white	929000645614	24
InteGrade power cable 2.5m(98") white	929000644514	24
InteGrade cable 1m(39") white angle	929000644714	24
InteGrade cable 2.5m(98") white angle	929000644914	24
Mounting clips		
InteGrade shelf-arm mounting clip	929000643803	100
InteGrade under-shelf mounting clip	929000643903	100
Power driver		
Xitanium Constant Voltage Outdoor LED Power Driver 20W - 24V	929000654006	10
Xitanium Constant Voltage Outdoor LED Power Driver 80W - 24V H	929000653906	10
Spare parts		
InteGrade inline lock	929000643713	100
InteGrade connector	929000640913	500



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