



TORNADO

PLASTER

Plaster Hand crafted energy efficient luminaires

Plaster

ENERGY EFFICIENT PLASTER LUMINAIRES

Specialist UK Plaster manufacturer

Custom Design Facility

Lighting Calculation Service

Dedicated In-house Production

Plaster – A natural, versatile material established as a primary element in the history of crafting decorative and architectural objects.

Tornado is a specialist manufacturer of handcrafted, high-density plaster luminaires, providing a unique quality of texture and finish unequalled in other materials.

Uplighters have long been considered an ideal source for creating soft ambient light, eliminating the problem of glare. Tornado's manufacture is developed in tandem with the latest lighting technology. Flexible in-house production ensures market advances are combined with clean, classic designs making our specifications compatible with the broadest commercial applications.

TORNADO



www.tornado.co.uk

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Tornado Lighting & Design Ltd.
2 Stable Yard, Danemere Street, London
SW15 1LT

P2&3 Glass Defused Up / Downlights

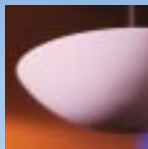
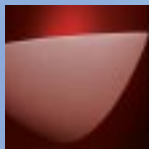
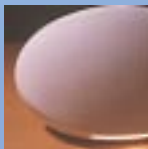
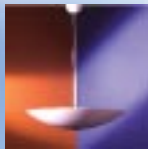
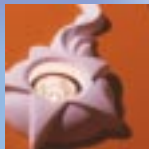
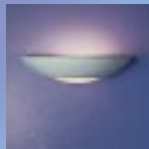
P4 to 11 Up / Downlights

P12 to 15 Uplights

P16&17 Recessed Ceiling Downlights

P18 & 19 Pendants

P20 Technical & Specification



2 & 3

4 to 11

12 to 15

16 & 17

18 & 19

20&21

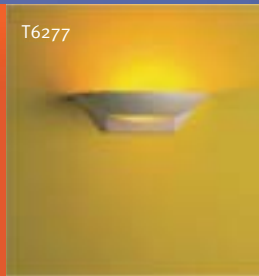
T6276



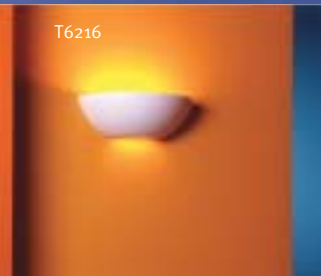
T6277



T6277



T6216



T6223
*integral maintained emergency pack option



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

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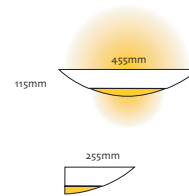
Glass Diffused Up / Downlights





Incorporating etched glass diffuser and offering a variety of high-output, low-energy options. This collection of plaster luminaires provides powerful uplighting with soft functional downlight, enhancing a wide range of interiors.

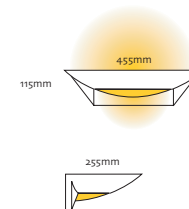
T6276





/HC Honeycomb diffuser available
/RNE Remote Maintained Emergency available
/DD Digital dimming available
/IME Integral Maintained Emergency available
Compact Fluorescent Electronic Ballast
Maximum Lumen Output

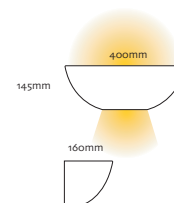
Model/Order Code	Wattage/Lamp Type				
 T6276/1XGLS	Single 40-100w ES E27	1,360		•	•
 T6276/1XTH	Single 200w R7s	3,200		•	
 T6276/1X26	Single 26w TCD g24d-3	1,800	•*	•	•
 T6276/2X26	Twin 26w TCD g24d-3	3,600	•	•	•






Model/Order Code	Wattage/Lamp Type				
 T6277/1XGLS	Single 40-100w ES E27	1,360		•	•
 T6277/1XTH	Single 200w R7s	3,200		•	
 T6277/1X26	Single 26w TCD g24d-3	1,800	•*	•	•
 T6277/2X26	Twin 26w TCD g24d-3	3,600	•	•	•

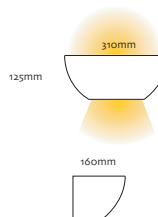


Model/Order Code	Wattage/Lamp Type				
 T6223/1XGLS	Single 40-100w ES E27	1,360		•	•
 T6223/1XTH	Single 200w R7s	3,200		•	
 T6223/1X26	Single 26w TCD g24d-3	1,800	•*	•	•
 T6223/2X26	Twin 26w TCD g24d-3	3,600	•	•	•



Model/Order Code	Wattage/Lamp Type				
 T6216/1XGLS	Single 40-100w ES E27	1,360		•	•
 T6216/1XTH	Single 200w R7s	3,200		•	
 T6216/1X26	Single 26w TCD g24d-3	1,800	•	•	•



* This fitting can be upgraded to Electronic control gear



Lamp Output Comparison

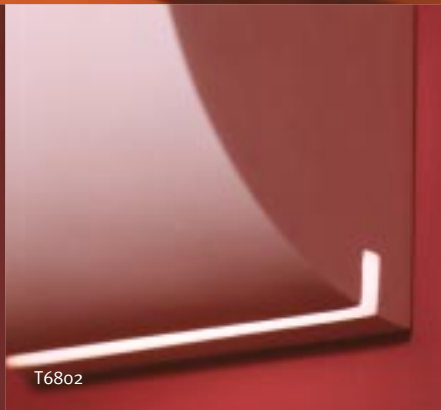
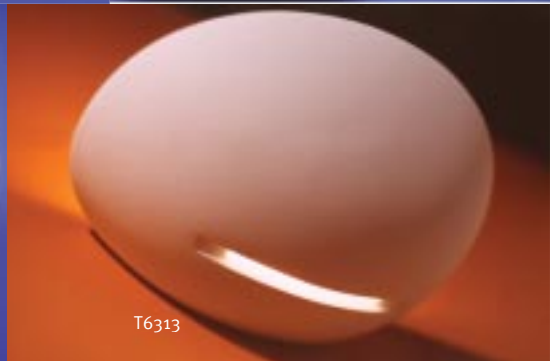
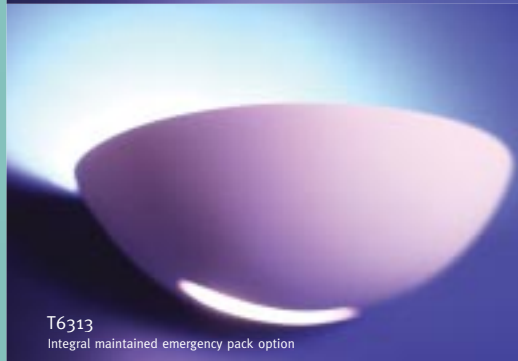
 2X26w =  60w GLS approx
conforms to EN 60-598 

Lamp life comparison

 26w
8,000 hours
▲
 1,000 hours

Optional anti-glare honeycomb diffuser





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Up/Downlights























T7525 (underside detail)

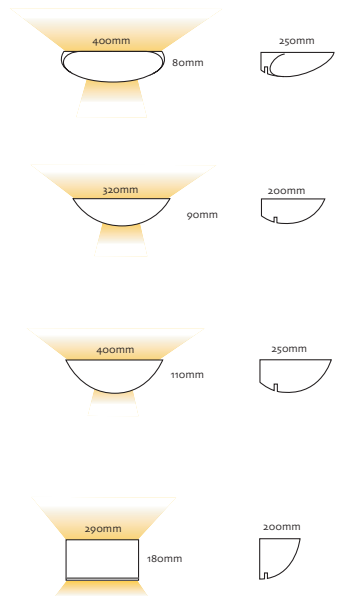
This range of up/down luminaires combines subtle compound designs

with high lumen output. Discrete apertures define curvature and lend

a visual lightness to the overall shape of these luminaires.

/RNE Remote Non-Maintained Emergency available
/IME Integral Maintained Emergency available
/DD Digital dimming available
/HC Honeycomb diffuser available
 Compact Fluorescent Electronic Ballast
 Maximum Lumen Output

Model/Order Code	Wattage/Lamp Type							
 T7525/1xGLS	Single 40-100w ES E27	1,360						
 T7525/1xTH	Single 200w R7s	3,200						
 T7525/1x26	Single 26w TCD G24d-3	1,800	•*	•	•	•	•	
 T7525/2x26	Twin 26w TCD G24d-3	3,600	•*	•	•	•	•	
 T7525/2x32	Twin 32w TCT G24q-3	4,800		•	•	•	•	
<hr/>								
 T6213/1xGLS	Single 40-100w ES E27	1,360						
 T6213/1xTH	Single 200w R7s	3,200						
 T6213/1x26	Single 26w TCD G24d-3	1,800	•*	•	•	•	•	
 T6213/2x26	Twin 26w TCD G24d-3	3,600	•	•	•	•	•	
<hr/>								
 T6313/1xGLS	Single 40-100w ES E27	1,360						
 T6313/1xTH	Single 200w R7s	3,200						
 T6313/1x26	Single 26w TCD G24d-3	1,800	•*	•	•	•	•	
 T6313/2x26	Twin 26w TCD G24d-3	3,600	•*	•	•	•	•	
 T6313/2x32	Twin 32w TCT G24q-3	4,800		•	•	•	•	
 T6313/2x42	Twin 42w TCT GX24q-4	6,400		•	•	•	•	
	Integral emergency pack option							
<hr/>								
 T6802/1xGLS	Single 40-100w ES E27	1,360						
 T6802/1xTH	Single 200w R7s	3,200						
 T6802/1x26	Single 26w TCD G24d-3	1,800	•*	•	•	•	•	
 T6802/2x26	Twin 26w TCD G24d-3	3,600	•*	•	•	•	•	
 T6802/2x32	Twin 32w TCT G24q-3	4,800		•	•	•	•	



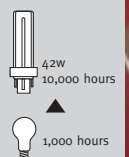
* This fitting can be upgraded to Electronic control gear

Lamp Output Comparison



conforms to EN 60.598 ●●●

Lamp life comparison

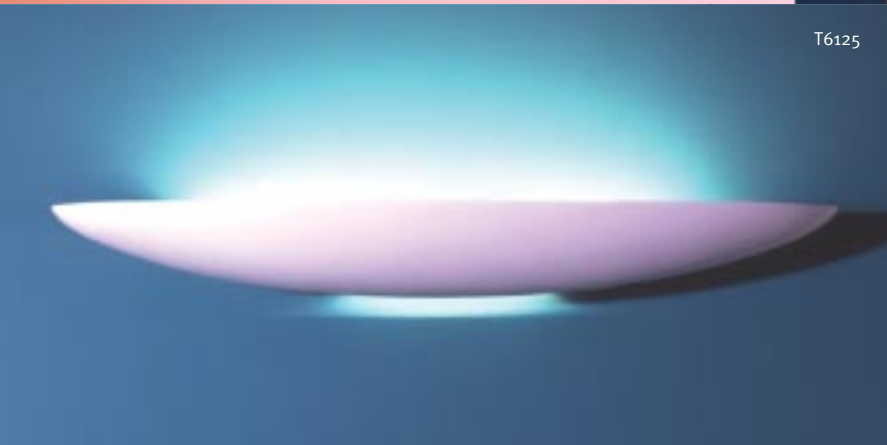


Optional anti-glare honeycomb diffuser





T6220



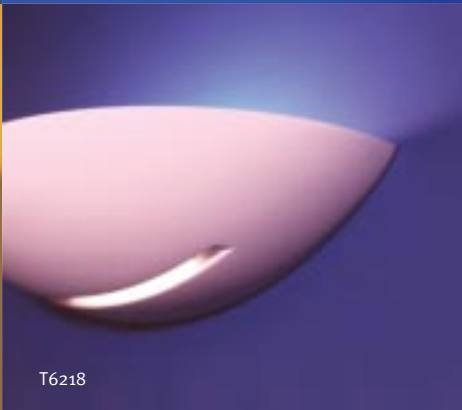
T6125



T6220



T6218



T6218



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
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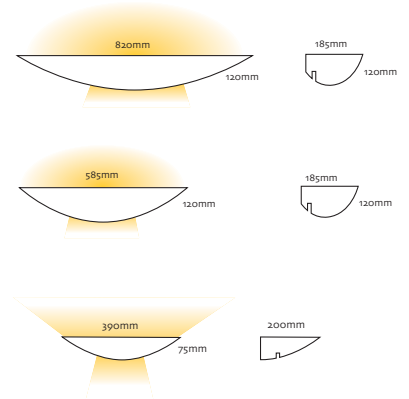
T6220

Wall Up / Downlights

These elegantly designed luminaires benefit from a reduced projection while retaining compound curvature design characteristics.

/RME Remote Maintained Emergency available
/DD Digital dimming available
/HD Honeycomb diffuser available
 Compact Fluorescent Electronic Ballast
 Maximum Lumen Output

Model/Order Code	Wattage/Lamp Type	6,400	9,400	1,360	3,200	1,800	1,360	3,200	1,800
 T6125/2XTH	Twin 200w TCL R7s	•							
 T6125/2X55	Twin 55w TCL 2G11	•	•	•					
 T6220/1XGLS	Single 40-100w ES E27			•	•				
 T6220/1XTH	Single 200w R7s				•				
 T6220/1X26	Single 26w TCD G24d-3		•*	•	•	•			
 T6220/2X26	Twin 26w TCD G24d-3	•				•	•		
(Candle)  T6218/1XGLS	Single 40-100w ES E27			•	•				
 T6218/1XTH	Single 200w R7s				•				
 T6218/1X18	Single 18w TCD G24d-2	•				•	•		

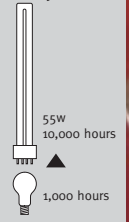


* This fitting can be upgraded to Electronic control gear

Lamp Output Comparison



Lamp life comparison



Optional anti-glare honeycomb diffuser



T7726



T7755



T7736



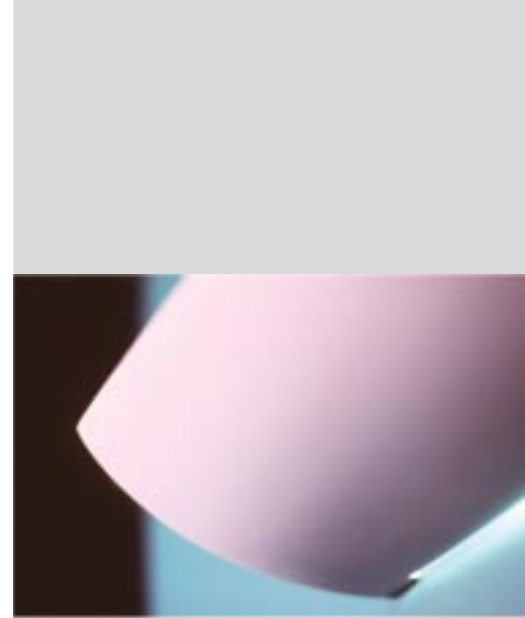
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Up/Downlights

A co-ordinated range of low-energy performance luminaires.

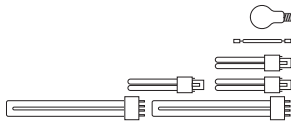
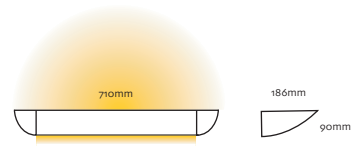
These slimline wallwash fittings provide a 95/5 light distribution.



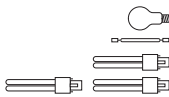
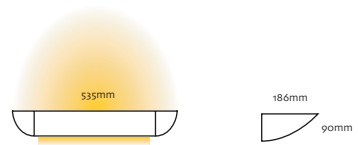
/RNE Remote Non-Maintained Emergency available
/HC Honeycomb diffuser available
/DD Digital dimming available
 Compact Fluorescent Electromagnetic Ballast
 Maximum Lumen Output



Model/Order Code	Wattage/Lamp Type	9,400	•	•	•	•
T7755 AA/2x55	Twin 55w TCL 2G11	9,400	•	•	•	•



T7736/1xGLS	Single 40-100w ES E27	1,360	•	•		
T7736/1xTH	Single 200w R7s	3,200	•			
T7736/1x26	Single 26w TCD G2d-3	1,800	•*	•	•	•
T7736/2x26	Twin 26w TCD G24d-3	3,600	•*	•	•	•
T7736/2x36	Twin 36w TCL 2G11	7,200	•	•	•	•

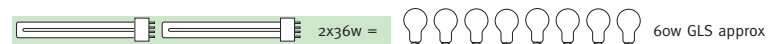


T7726/1xGLS	Single 40-100w ES E27	1,360	•	•		
T7726/1xTH	Single 200w R7s	3,200	•			
T7726/1x26	Single 26w TCD G2d-3	1,800	•*	•	•	•
T7726/2x26	Twin 26w TCD G24d-3	3,600	•	•	•	•



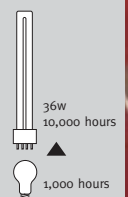
* This fitting can be upgraded to Electronic control gear

Lamp Output Comparison



conforms to EN 60-598 ●●●

Lamp life comparison



Optional anti-glare honeycomb diffuser

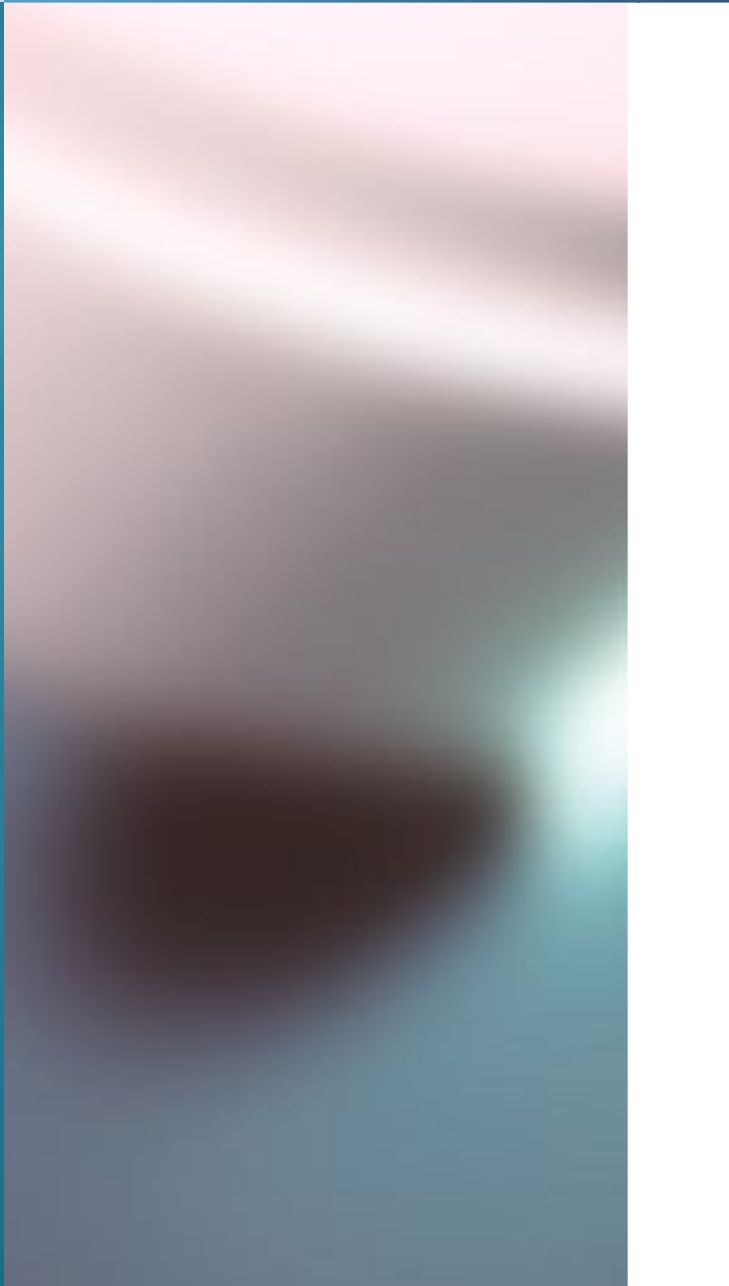




T6636



T6626



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T6655

Up/Downlights

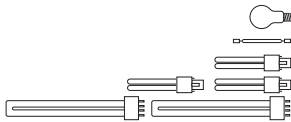
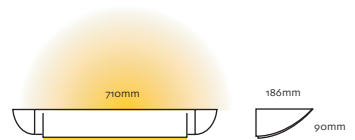
A co-ordinated range of low energy, performance luminaires.

These slimline wallwash fittings provide a 95/5% light distribution.

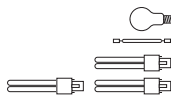
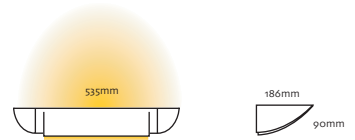
/RNE Remote Non-Maintained Emergency available
/HC Honeycomb diffuser available
/DD Digital dimming available
 Compact Fluorescent Electronic Ballast
 Maximum Lumen Output



Model/Order Code	Wattage/Lamp Type	9,400	•	•	•	•
T6655 AA/2x55	Twin 55w TCL 2G11	9,400	•	•	•	•



T6636/1xGLS	Single 40-100w ES E27	1,360	•	•		
T6636/1xTH	Single 200w R7s	3,200	•			
T6636/1x26	Single 26w TCD G2d-3	1,800	•*	•	•	•
T6636/2x26	Twin 26w TCD G24d-3	3,600	•*	•	•	•
T6636/2x36	Twin 36w TCL 2G11	7,200	•	•	•	•



T6626/1xGLS	Single 40-100w ES E27	1,360	•	•		
T6626/1xTH	Single 200w R7s	3,200	•			
T6626/1x26	Single 26w TCD G2d-3	1,800	•*	•	•	•
T6626/2x26	Twin 26w TCD G24d-3	3,600	•	•	•	•



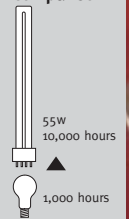
* This fitting can be upgraded to Electronic control gear

Lamp Output Comparison



conforms to EN 60.598 ●@©

Lamp life comparison



Optional anti-glare honeycomb diffuser





T6119



T6211



T6122/T6123 (corner installation)











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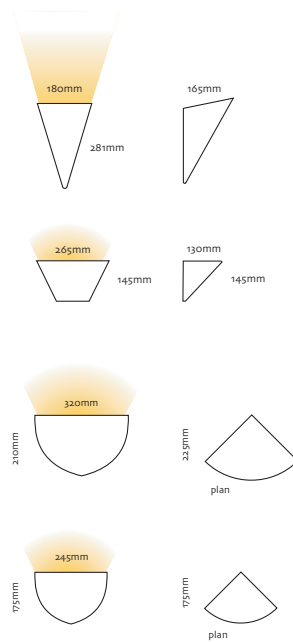
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Uplights

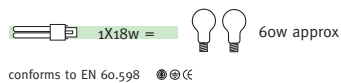
Tornado's discreet feature luminaires deliver individual lighting solutions, while maintaining a distinct appeal.

*/HD Honeycomb diffuser available
Compact Fluorescent Electromagnetic Ballast
Maximum Lumen Output*

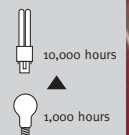
Model/Order Code	Wattage/Lamp Type		
 T6119/1xGLS	Single 40-60w ES E27 730	•	
 T6211/1xGLS	Single 40-100w ES E27 730	•	
 T6211/1XTH	Single 200w R7s 3,200		
 T6211/1X18w	Single 18w TCD G24d-2 1,200	•	•
 T6122/1xGLS	Single 40-100w ES E27 730	•	
 T6122/1XTH	Single 200w R7s 3,200		
 T6122/1X26	Single 26w TCD G24d-3 1,800	•	•
 T6123/1xGLS	Single 40-100w ES E27 730	•	



Lamp Output Comparison



Lamp life comparison



Optional anti-glare honeycomb diffuser



T6115

T6116

T6126

T6117

T6118

T6101



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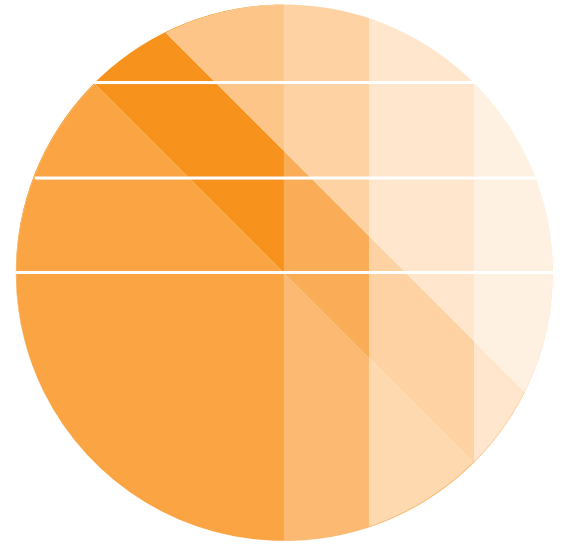
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Uplights

Luminaires derived from clean spherical divisions.

This range allows a choice of appropriate size luminaire

to suit different room proportions.



Compact Fluorescent Electronic Ballast
 Compact Fluorescent Electronic Ballast
 /HC Honeycomb diffuser available
 /DD Digital dimming available
 Maximum Lumen Output

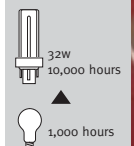
Model/Order Code	Wattage/Lamp Type		
T6115/1xGLS	Single 40-100w ES E27	1,360	•
T6115/1xTH	Single 200w ES R7s	3,200	
T6115/1x18	Single 18w TCD G24d-2	1,200	•
T6116/1xGLS	Single 40-100w ES E27	1,360	•
T6116/1xTH	Single 200w ES R7s	3,200	
T6116/1x26	Single 26w TCD G24d-3	1,800	•
T6116/2x18	Twin 18w TCD G24d-2	2,400	•
T6126/1xGLS	Single 40-100w ES E27	1,360	•
T6126/1xTH	Single 200w R7s	3,200	
T6126/1x26	Single 26w TCD G24d-3	1,800	•*
T6126/2x26	Twin 26w TCD G24d-3	3,600	•*
T6126/2x32	Twin 32w TCT G24q-3	4,800	•
T6117/1xGLS	Single 40-100w ES E27	1,360	•
T6117/1xTH	Single 200w R7s	3,200	
T6117/1x26	Single 26w TCD G24d-3	1,800	•
T6117/2x18	Twin 18w TCD G24d-2	2,400	•
T6118/1xGLS	Single 40-60w E27 (candle)	730	•
T6118/1xTH	Single 200w R7s	3,200	
T6118/2x18	Single 18w TCD G24d-2	1,200	•
T6101/1xGLS	Single 40-100w ES E27	1,360	•
T6101/1xTH	Single 200w R7s	3,200	
T6101/1x26	Single 26w TCD G24d-3	1,800	•

* This fitting can be upgraded to Electronic control gear

Lamp Output Comparison



Lamp life comparison



Optional anti-glare honeycomb diffuser



SF2056
188 x 143mm



SF2055
143 x 143mm



SF2046
139 x 139mm



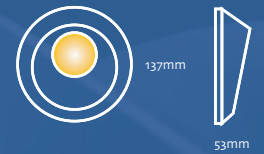
SF2027
125 x 125mm



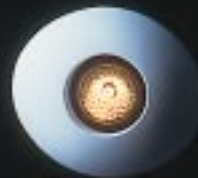
SF2028
145 x 130mm



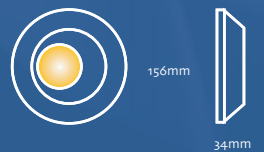
SF2038
137 x 137mm



SF2021
150 x 150mm



SF2051
156 x 165mm



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Recessed Downlights - Softform

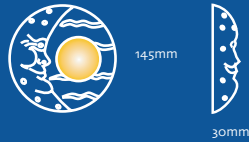
Softform demonstrates the versatility of plaster, creating an alternative in

recessed downlighting. Softform can provide imaginative solutions that

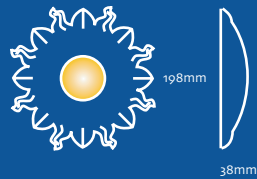
will enhance a variety of specified environments, the option to paint-finish

these luminaires increases their application.

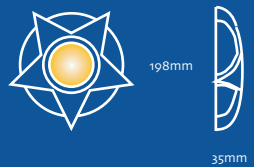
SF2049
145 x 145mm



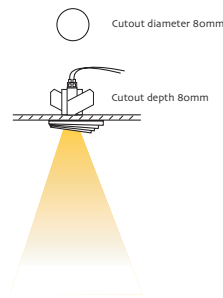
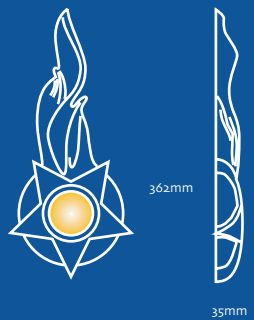
SF2029
198 x 198mm



SF2040
165 x 165mm



SF2044
362 x 165mm



/RME Remote Maintained Emergency Available

Model/Order Code	Wattage/Lamp Type	
 SF2028/LV	Single 20-50w MR16 dichroic 12v	•
SF2028/M	Single 40w SES E14 240volt	
SF2021/LV	Single 20-50w MR16 dichroic 12v	•
SF2021/M	Single 40w SES E14 240volt	
SF2051/LV	Single 20-50w MR16 dichroic 12v	•
SF2051/M	Single 40w SES E14 240volt	
SF2056/LV	Single 20-50w MR16 dichroic 12v	•
F2056/M	Single 40w SES E14 240volt	
SF2055/LV	Single 20-50w MR16 dichroic 12v	•
SF2055/M	Single 40w SES E14 240volt	
SF2046/LV	Single 20-50w MR16 dichroic 12v	•
SF2046/M	Single 40w SES E14 240volt	
SF2027/LV	Single 20-50w MR16 dichroic 12v	•
SF2027/M	Single 40w SES E14 240volt	
SF2049/LV	Single 20-50w MR16 dichroic 12v	•
SF2049/M	Single 40w SES E14 240volt	
SF2029/LV	Single 20-50w MR16 dichroic 12v	•
SF2029/M	Single 40w SES E14 240volt	
SF2040/LV	Single 20-50w MR16 dichroic 12v	•
SF2040/M	Single 40w SES E14 240volt	
SF2044/LV	Single 20-50w MR16 dichroic 12v	•
SF2044/M	Single 40w SES E14 240volt	
SF2038/LV	Single 20-50w MR16 dichroic 12v	•
SF2038/LM	Single 40w SES E14 240volt	

*12Volt version require a transformer

conforms to EN 60.598 ●@©



TP6241



TP6341



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Pendant Uplights

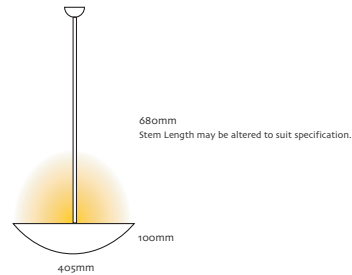
Tornado's co-ordinated range of pendants can accommodate a variety of powerful, low-energy

lightsource options, extending the benefits of reflected light to central locations.






Compact Fluorescent Electronic Ballast
 Compact Fluorescent Electromagnetic Ballast
 Maximum Lumen Output

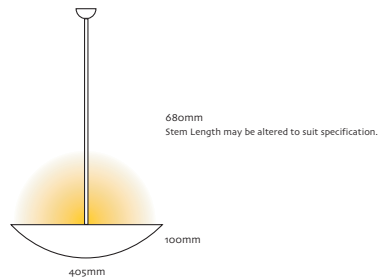
Plaster/Stainless Pendant

Model/Order Code	Wattage/Lamp Type		
 TP6241/2xGLS	Twin 40-100w ES E27	2,720	
 TP6241/2xTH	Twin 200w R7s	6,400	
 TP6241/2x26	Twin 26w TCD G24d-3	3,600	•*



Aluminium/Stainless Pendant

 TP6341/2xGLS	Twin 40-100w ES E27	2,720	
 TP6341/2xTH	Twin 200w R7s	6,400	
4x  TP6341/4x26	Quad 26w TCD G24d-3	1,800	•*
4x  TP6341/4x32	Quad 32w TCT G24d-3	9,600	•
4x  TP6341/4x42	Quad 42w TCT G24d-4	12,800	•





* This fitting can be upgraded to Electronic control gear

Lamp Output Comparison

 1x42W =  60w GLS approx

conforms to EN 60,598 Ⓢ Ⓞ Ⓢ

Lamp life comparison

 42W
 10,000 hours
 ▲
 1,000 hours

Optional anti-glare honeycomb diffuser



Electronic Ballast

Electronic ballasts operate lamps at 20 -100 kHz (high frequency). The fluorescent lamps are ignited with internally generated voltages, eliminating the need for external starter. Luminaires in which electronic ballasts are fitted conserve energy during operation by converting more energy into light.

The use of electronic ballasts has a positive effect of the whole lighting system: Reduced power consumption (up to 30%) with constant light efficiency, up to 50% longer lamp life, over voltage protection, no stroboscopic effect, flicker-free starting and operation, low wiring effort, automatic shut down of defective lamps. Many luminaires within our range are capable of being upgraded to accommodate high frequency control units.

Electromagnetic Ballasts

Electromagnetic ballasts (Switch Start) are active components, which generate oscillations in the 100 to 500 H frequency range, and above 1000 H. Fittings utilizing this ballast are normally inaudible, as the hum frequency has been optimised. Electromagnetic control units are used throughout our range to provide an economic and reliable low energy light source.

Starters

Fittings designed to run four pin lamps using electromagnetic ballasts would require a 220-240V 20-40watt starter (Starters are Supplied with fittings).

Digital Dimming for Compact Fluorescent fittings

Many of our compact fluorescent fittings can be digitally dimmed (refer to specification guide). In certain situations a digital interface may be required, the purpose of an interface is to either convert 1-10v analogue signals into those compatible with a digital system or to allow for user friendly dimming and on/off switching options. This subject is too complex for a brief summary. Installation advice must be sort prior to specification. Please contact Tornado Technical to discuss your requirements.



Aluminium Honeycomb Mesh Covers

These discreet covers offer a proven solution for masking uplights from unattractive viewing, without compromising light output or causing heat retention. Both shadowing and glare are eliminated with the use of this option and where applicable, each individual light can be supplied with a dedicated cover. Due to high temperature output this cover is not compatible with Tungsten Halogen light sources.

Caution

Tungsten Halogen Wall Placement

Tornado advises the utmost care when placing Tungsten Halogen wall lights on Vinyl wall coverings, freshly plastered walls or other heat sensitive backgrounds. This may lead to discolouration or dehydration of the surface.

Max Lamp Wattage

It is important that the maximum wattage is not exceeded. This guide is to ensure that the fitting operates both safely and efficiently. Failure to observe these guidelines could result in heat retention and subsequent damage to the luminaire and its surroundings.

Specifications

Design and manufacture of Tornado Lighting equipment and components are subject to a policy of continuous reappraisal. The company therefore reserves the right to introduce changes and withdraw products without prior notice.

Condition of Sale

All prices are subject to change without prior notice. All goods are sold subject to Tornado Lighting trading terms, a copy of which is available upon request.

Maintenance

Periodic cleaning of reflector surfaces enhances optical performance, but should be carried out when the electrical supply is disconnected.

Paint Finish

Plaster luminaires are ideal for a variety of paint finishes. No special preparation is required other than sealing the outer surface with a PVA solution.

Lamp Guide

Standard ES E27GLS 60 – 100 W



The most common incandescent available. Good colour reproduction, easily dimmable and suitable for short-term use.

SES E14GLS 40 W (reflector)



Reflector lamps are finished on the inside with a mirror reflector coating, supplying directional light in a uniform beam without spots.

Tungsten Halogen 200 W R7s



Double ended linear Tungsten Halogen Lamp used for indirect lighting. Easily dimmable with standard mains circuitry. (For fittings using this light source please refer to heading Caution/Tungsten Halogen Wall Placement.

Halogen Capsule Lamp 12v 10/20 W G4



Compact dimensions for optimum luminaire design plus directable light beam.

Dichroic Reflector Lamps 12v



MR16 (50mm) 20-50w
MR11 (35mm) 20-35w
Cool beam or dichroic reflector lamps with light emitted in a well-defined beam. Ideal for accent lighting with excellent colour rendition.

Compact Fluorescent 28 w & 38 w 2D



28w GR10q (4 pin)
GR10q 38w (4 pin)
Compact fluorescent lamp known commonly as "2D". Used where even illumination is required across the whole surface.

Compact Fluorescent 10 w, 18w, 26w TCD



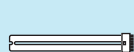
10w G24d-1 (2 pin)
18w G24d-2 (2 pin)
26w G24d-3 (2 pin)
26w G24q-3 (4 pin)
Double-turn compact fluorescent lamps that provide high lumen outputs, ideal for long consecutive lighting periods. 2 pin lamps have built in starters whilst the 4 four pin lamps are used with high frequency, emergency and dimmable models.

Compact Fluorescent 32w, 42w TCT



32w GX24q-3 (4 pin)
42w GX24q-4 (4 pin)
Compact triple turn design, 30% shorter than double turn lamps of equal watts allowing compact luminaires to offer high frequency fluorescent output.

Compact Fluorescent 36w, 55w TCL



36w 2G11 (4 pin)
55w 2G11 (4 pin)
A large high power compact fluorescent lamp that delivers all the advantages of this light source within a slimline design. Ideal for large commercial specification where reliability, low maintenance and cost efficiency is required.

20 Free comprehensive lighting design service

Tornado offers a free lighting design service. Just send your drawing plans or DXF files from a CAD system and we will promptly supply a comprehensive graphic and text report outlining the following:

- Isolux Diagrams**
- Lumen Method Calculations**
- Point To Point Calculations**
- Detailed Intensity Diagrams**
- 3D Intensity Diagrams**
- Daylight Allowances**
- Uplight / Downlight Combinations**
- Complex Roomshape Calculations**
- Various Scheme Comparisons**
- Costs And Energy Consumption Reports**
- Electrical Load Requirements**

*Note all calculations are made to IEE 16th edition regulations and conform to the latest CIBSIE guidelines.

Emergency Lighting

Emergency Lighting provides immediate illumination when there is a power failure.

When power fails emergency lighting enables:

- Safe exit from a building**
- Shut down of potentially dangerous activities**
- Safe access to emergency equipment & alarms**
- Safe access to a building by emergency services**

Self contained emergency luminaires allow the specifier to maintain the integrity of the lighting installation.

Tornado's range of luminaires are available with a choice of emergency options. Please refer to specification guide for details.

Integral Maintained Emergency Fittings

All emergency components are housed within the fitting. Maintained versions combine the same lamp for both emergency and normal modes. Integral maintained units are supplied with electronic ballasts, emergency inverter modules and 3 hour battery packs.

In normal switched use a red LED will light indicating that the Nickel Cadmium battery is charging and the unit is operational. In emergency mode the luminaire will operate as follows:

18w TCD G24q-2 in emergency mode 1 x lamps will operate at 12 % of normal output.

26w TCD G24q-3 in emergency mode 1 x lamps will operate at 10 % of normal output.

32wTCD G24q-3 in emergency mode 1 x lamps will operate at 9 % of normal output.

- 
- a. **Show us your plans...**
 - b. **...and we'll enter the data...**
 - c. **...giving you the options...**
 - d. **...for individual rooms...**
 - e. **...and create intensity diagrams...**
 - c. **...to help you make the right decisions.**

Remote Non-Maintained Emergency Fittings

The batteries and inverter are mounted in a remote box, independent from the fitting. In non-maintained versions each fitting has dedicated lamps for emergency and normal running.

This system is supplied with a 3 hour remote emergency battery pack. Dimensions 204mm x 327mm x 85 mm

The pack can be mounted up to 7 metres away from the fitting, packs situated within one meter will have an LED (indicates that the the Nickel Cadmium battery is charging and the unit is operational) mounted on the luminaire. Packs situated further than 1 metre will have the LED mounted on the remote pack. Unless otherwise informed, Tornado will automatically mount LED's on the luminaire.

In emergency mode this unit operates a 12v 20w G4 halogen capsule lamp at 100% for three hours (lamp supplied with unit). In normal mode this lamp remains dormant.

Remote Maintained Emergency Fittings

Remote Maintained versions coordinate an external remote box with a single light source for use in both normal and emergency modes.

Low voltage (12volt LV) fittings are supplied with maintained split packs (sausage pack). The units are designed to be installed through an 85mm cut out hole, a 240mm void is required to accept this pack. In emergency mode the luminaires lamp (50w MR16 Dichroic) will light at 12% for 3 hours.

Compact fluorescent remote maintained units are supplied with packs that measure 257mm x 131mm x 64mm a cutout of 145mm and void depth of 280mm is required. A starter will be located upon this unit, therefore it must remain accessible.

10w TCD G24q-3 = 17% for 3 hours

18w TCD G24q-3 = 12% for 3 hours

Please note that remote emergency packs are NOT IP rated and suitable for internal installation only.



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