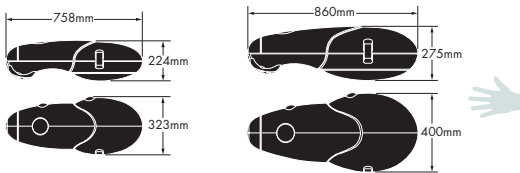
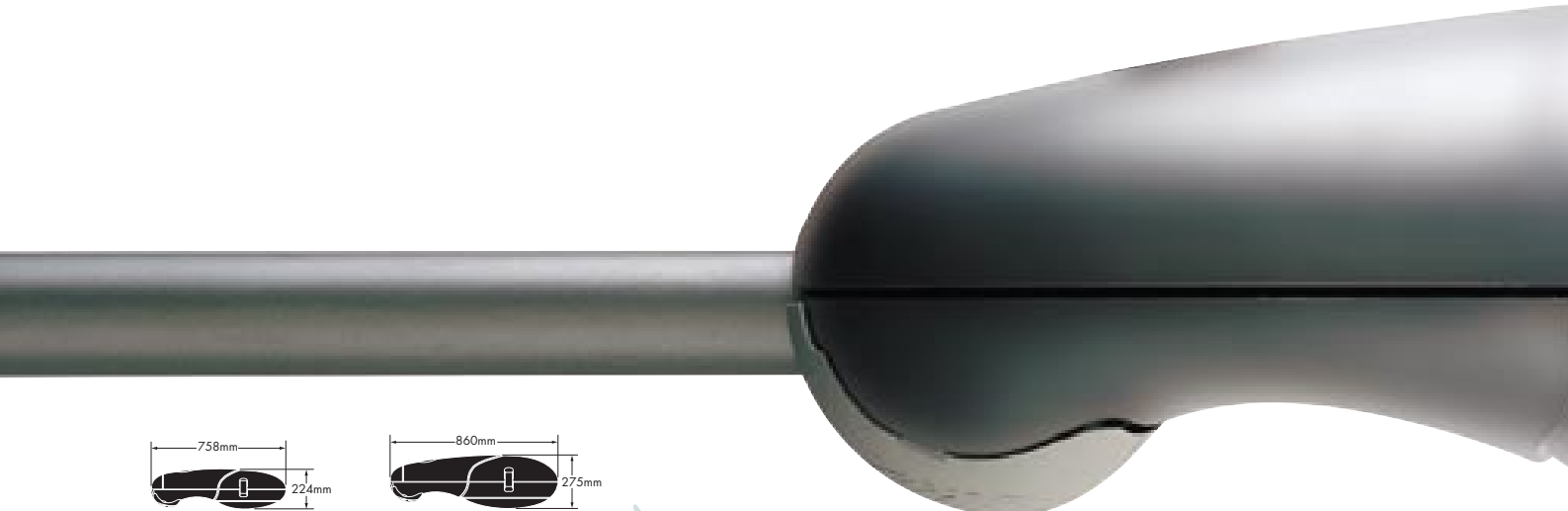


# Triumph 1 and 2 new

1:4



Triumph 1

Triumph 2

**Triumph is a new range of aluminium street lighting lanterns, designed to match the highest standards demanded in Europe, both in lighting performance, product quality and aesthetics. In two sizes, with a power range from 50 to 600 watts, and with adjustable light distribution, the lantern can be used successfully - either post-top or side entry mounted - in a wide range of applications from city streets to major traffic routes.**

### Key Features - Style

Lighting the city demands more than just the functional provision of light to see by. The opportunity is available to embody the lighting equipment into the street scene design, and Triumph offers the designer a distinctively curved housing to blend in with the aesthetic style of the street scene. Simple mounting choices avoid the clutter of adaptors, and the choice of plain or painted versions allows the matching of colour systems employed in other street furniture. Lamp choice also offers white light options.

### Optical Performance

The Triumph has been designed to meet the requirements of the new European code EN13201, which embodies new demands on the designer in terms of lighting performance. Most noticeable of these are new categories and standards for city lighting, reflecting the more complex needs of multi-purpose streets where, for instance, motorised, pedestrian, and cycle traffic are present. Triumph will offer you the achievement of the revised standard levels of lighting, the uniformity levels needed, and the restriction of glare.

### Style



### Options



RAL colour painted



Flat glass

new

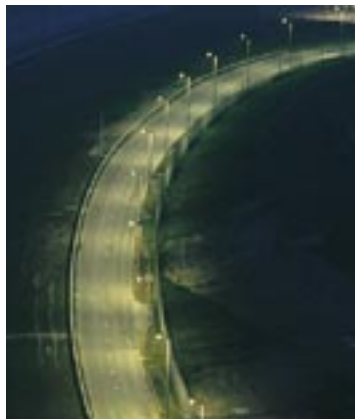
# Triumph 1 and 2

2:4



## Intrusive Light

It is now widely accepted that a shallow bowl type lantern actually reduces the "sky glow" which is a familiar and unfortunate feature of many towns and cities. (Please refer to the ILE Guidance Notes for the reduction of Light Pollution re-printed November 2000). All light pollution originates from light penetrating to unwanted areas, so precise control is required of any lantern which seeks to reduce the nuisance. Totally new optical systems are employed in Triumph to provide the fine control that is needed to meet the environmental demands of the city. Shallow bowls, with the softer cut-off, and the flat glass versions with stricter cut-off for extra sensitive areas, combine to offer you the choice of design tool. For highly sensitive areas, where an abnormal restriction of light distribution is required, a range of retro-fit blade louvres is available to fit inside shallow glass or shallow polycarbonate bowl types.



## Best Value

A performance lantern, constructed with re-cycling in mind, with the added facility of later modification to accommodate new types of lamps and control gear, and with built in style, must measure high on any scale of what represents best value. Triumph is not just a lantern to meet today's needs; this new product addresses both current and future standards, and is designed to give extended useful life through its "futureproof" design values.

## Safety

Electrical safety is a prime requirement for all operatives, and Triumph offers total safety during all maintenance functions. The integral isolator device is activated each time the canopy is opened, and disconnects the mains supply from the circuit. Closure of the canopy re-connects the supply. During the maintenance operation the control gear set can still be tested electrically with the mains supply isolated.






# Triumph 1 and 2 new

3:4






## Lamp Types

### Triumph 1

-  50W/70W/100W/150W HPS-T tubular high pressure sodium, cap: E27/E40
-  70W/150W CDM-TT metal halide, cap: E27/E40
-  42W TC-TEL compact fluorescent, cap: GX24q-4

### Triumph 2

-  150W/250W/400W HPS-T tubular high pressure sodium, cap: E40
-  600W HPS-T tubular high pressure sodium (requires remote gear inside column) cap: E40
-  250W/400W HIT metal halide, cap: E40


## Materials/Finish

Body and canopy: Re-cyclable pressure die-cast aluminium LM6 unpainted. RAL colour painted versions on request  
 Toggle: Stainless steel  
 Enclosures: Shallow, toughened glass curved bowl, toughened flat glass, shallow polycarbonate bowl  
 Reflector: Anodised, high grade aluminium. Three versions: Size 0 for E27 lamps, size 1 for E40 lamps, size 2 for E40 lamps  
 Spigot: Pressure die-cast aluminium

## Installation/Mounting

Post top (76mm Ø or 60mm Ø) or side entry (42mm Ø or 60mm Ø) without the need for adaptor. Spigot depth 100mm.  
 For post top mounting, adjustable tilt from 0° to 20° in 5° movements. Mains terminal block capacity 3 way, 2.5mm<sup>2</sup>.

## Standards

Designed and manufactured to comply with EN 60598  
 IP66 (Optical compartment)  
 IP54 (Control gear compartment) - IP65 available on request  
 Shock resistance: 5 joules glass, 20 joules polycarbonate bowl  


## Specification

To specify state:  
 Street lighting lantern in die-cast aluminium (body and canopy) with top access to the lamp and gear compartment via hinged canopy. Optical compartment IP66 and gear compartment IP54. Suitable for 50W/70W/100W/150W/250W/400W HPS-T, 70W/150W/CDM-TT, 42W TC-TEL, 600W HPS-T, 250W/400W HIT metal halide. Post top or side entry mounting without the need for adaptor. Automatic disconnection of the removable gear tray when canopy is opened.  
 As Thorn Triumph 1/2.

new **Triumph 1 and 2**

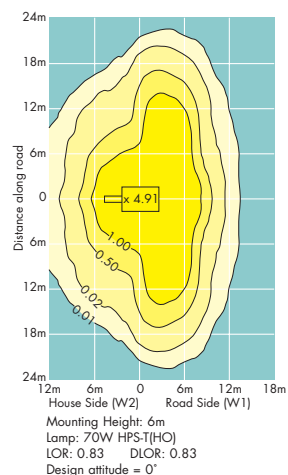
4:4

**Ordering Guide**

**Lanterns** Lamps to be ordered separately. Order Lantern and Gear Tray for complete luminaire.

Description	Windage (m <sup>2</sup> )	Weight (kg)	Cat. No.
<b>Size 1</b>			
Flat glass with size 0 reflector	0.05	6.5	QT1ROFG
Shallow curved glass bowl with size 0 reflector	0.05	6.5	QT1ROSB
Shallow polycarbonate bowl with size 0 reflector	0.05	6.0	QT1ROSV
Flat glass with size 1 reflector	0.05	6.5	QT1R1FG
Shallow curved glass bowl with size 1 reflector	0.05	6.5	QT1R1SB
Shallow polycarbonate bowl with size 1 reflector	0.05	6.0	QT1R1SV
Flat glass with size 0 reflector and Nema socket	0.05	6.5	QT1ROFGP
Shallow curved glass bowl with size 0 reflector and Nema socket	0.05	6.5	QT1ROSBP
Shallow polycarbonate bowl with size 0 reflector and Nema socket	0.05	6.0	QT1ROSV
Flat glass with size 1 reflector and Nema socket	0.05	6.5	QT1R1FGP
Shallow curved glass bowl with size 1 reflector and Nema socket	0.05	6.5	QT1R1SBP
Shallow polycarbonate bowl with size 1 reflector and Nema socket	0.05	6.0	QT1R1SVP
Nema photocell			QP
Adaptor to enable use on side entry 34mm Ø shaft	-	0.41	QTHSA
<b>Size 2</b>			
Flat glass with aluminium reflector	0.11	7.7	QT2FG
Shallow curved glass bowl with aluminium reflector	0.11	8.0	QT2SB
Shallow polycarbonate bowl with aluminium reflector	0.11	7.2	QT2SV
Flat glass with aluminium reflector and Nema socket	0.11	7.8	QT2FGP
Shallow curved glass bowl with aluminium reflector and Nema socket	0.11	8.1	QT2SBP
Shallow polycarbonate bowl with aluminium reflector and Nema socket	0.11	7.3	QT2SVP
Nema photocell			QP

**Photometric Data**



**Utilisation Factors**

Distance/Height W <sub>1</sub> /H or W <sub>2</sub> /H	Road side	House side
0.2	0.07	0.06
0.4	0.16	0.11
0.6	0.25	0.16
0.8	0.33	0.20
1.0	0.40	0.22
1.5	0.48	0.26
2.0	0.51	0.27
3.0	0.52	0.28
4.0	0.53	0.29

**Ordering Guide**

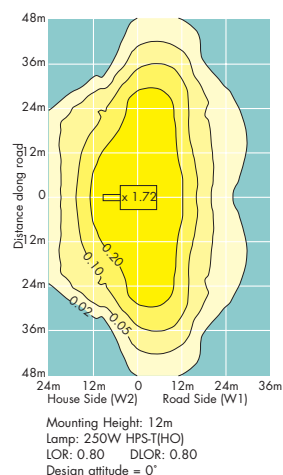
**Gear Trays**

Description	Weight (kg)	Total circuit watts	Cat. No.
<b>Size 1</b>			
50W HPS-T	1.7	62.7	QTGT1ROHPS50.4
70W HPS-T	1.7	84.0	QTGT1ROHPS70.4
100W HPS-T	1.9	116.2	QTGT1R1HPS100.4
150W HPS-T	2.5	170.3	QTGT1R1HPS150.4
70W CDM-TT	1.7	84.0	QTGTROCDMTT70.4
150W CDM-TT	2.5	170.3	QTGT1R1CDMTT150.4
42W TC-TEL	0.5	-	QTGT1ROCFL42
Less gear E40	0.5	-	QTGT1E40
Less gear E27	0.3	-	QTGT1E27
<b>Size 2</b>			
150W HPS-T	2.6	170.3	QTGT2HPS150.4
250W HPS-T	3.8	277.6	QTGT2HPS250.4
400W HPS-T	5.0	435.4	QTGT2HPS400.4
600W HPS-T - Remote Gear set	-	-	QTGT2HPS600
250W HIT (Philips HPI-T)	3.8	277.6	QTGT2HPIT250.4
400W HIT (Philips HPI-T)	5.0	435.4	QTGT2HPIT400.4
250W HIT (Osram HQI-T)	3.8	277.6	QTGT2HQIT250.4
400W HIT (Osram HQI-T)	5.0	435.4	QTGT2HQIT400.4
Less gear	0.6	-	QTGT2*

Add 'P' for photocell versions (e.g. QTGT2HPS150.4P) \* To be used for remote gear tray versions.

**Photometric Data**

Cat. No. QTGT2HPS250.4+QT2SB



**Utilisation Factors**

Distance/Height W <sub>1</sub> /H or W <sub>2</sub> /H	Road side	House side
0.2	0.12	0.10
0.4	0.22	0.16
0.6	0.30	0.21
0.8	0.35	0.24
1.0	0.38	0.26
1.5	0.43	0.30
2.0	0.45	0.31
3.0	0.46	0.32
4.0	0.47	0.33

**Accessories**

Description	Weight (kg)	Cat. No.
<b>Blade Louvres</b> (black finish)		
Size 0 rear louvre	0.075	QTL0R
Size 0 front louvre	0.075	QTL0F
Size 1 rear louvre	0.075	QTL1R
Size 1 front louvre	0.075	QTL1F
Size 2 rear louvre	0.075	QTL2R
Size 2 front louvre	0.075	QTL2F