Triumph 1 and 2 [1:4]

Updated August 2004

Triumph1:	70W	HPS-T	E27	100W, 150W	HPS-T	E40	70W	HIT-CE (Philips CDM-TT)	E27	150W	HIT-CE (Philips CDM-TT)	E40
42W	TC-TEL	GX24q-4	Triumph 2:	150W, 250W, 400W	HPS-T	E40	600W	HPS-T (requires remote gear inside column)	E40
250W, 400W	HIT	E40	IP66 (Optical compartment), IP54 (Control gear compartment)	EN 60598	6 joules glass, 20 joules polycarbonate bowl	CE

A range of aluminium street lighting lanterns, designed to match the highest standards demanded in Europe, both in lighting performance, product quality and aesthetics.

758	860
224	275
323	400
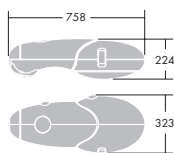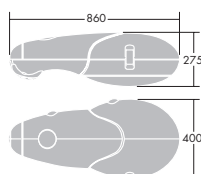
Triumph 1   *Triumph 2*

In two sizes, with a power range from 70 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.

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.


RAL colour painted

Flat glass

Optical Performance
The Triumph has been designed to meet the requirements of the 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.

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.
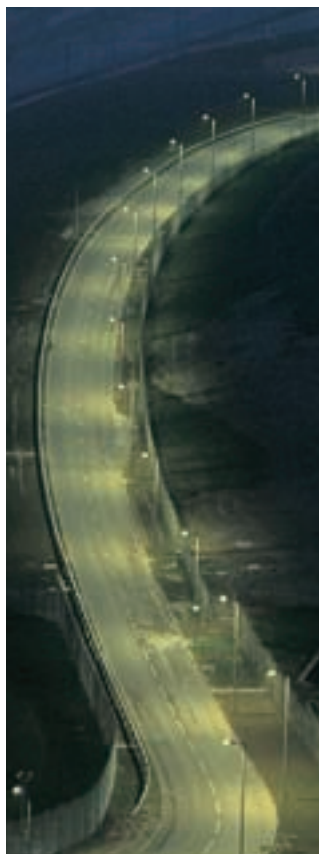

Best Value

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.
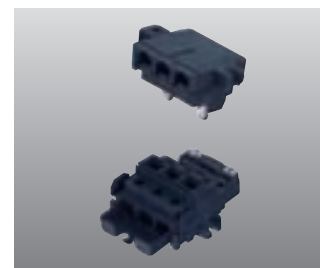
Mains isolated when canopy is opened

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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, 2.5mm².

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 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.

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

Description	Windage (m²)	Weight (kg)	Cat. No.
Size 1			
Flat glass with size 0 reflector	0.066	6.5	QT1R0FG
Shallow curved glass bowl with size 0 reflector	0.066	6.5	QT1R0SB
Shallow polycarbonate bowl with size 0 reflector	0.066	6.0	QT1R0SV
Flat glass with size 1 reflector	0.066	6.5	QT1R1FG
Shallow curved glass bowl with size 1 reflector	0.066	6.5	QT1R1SB
Shallow polycarbonate bowl with size 1 reflector	0.066	6.0	QT1R1SV
Flat glass with size 0 reflector and Nema socket	0.066	6.5	QT1R0FGP
Shallow curved glass bowl with size 0 reflector and Nema socket	0.066	6.5	QT1R0SBP
Shallow polycarbonate bowl with size 0 reflector and Nema socket	0.066	6.0	QT1R0SVP
Flat glass with size 1 reflector and Nema socket	0.066	6.5	QT1R1FGP
Shallow curved glass bowl with size 1 reflector and Nema socket	0.066	6.5	QT1R1SBP
Shallow polycarbonate bowl with size 1 reflector and Nema socket	0.066	6.0	QT1R1SVP
Nema photocell			QP
Adaptor to enable use on side entry 34mm Ø shaft	-	0.41	QTHSA
Size 2			
Flat glass with aluminium reflector	0.101	7.7	QT2FG
Shallow curved glass bowl with aluminium reflector	0.101	8.0	QT2SB
Shallow polycarbonate bowl with aluminium reflector*	0.101	7.2	QT2SV
Flat glass with aluminium reflector and Nema socket	0.101	7.8	QT2FGP
Shallow curved glass bowl with aluminium reflector and Nema socket	0.101	8.1	QT2SBP
Shallow polycarbonate bowl with aluminium reflector and Nema socket*	0.101	7.3	QT2SVP
Nema photocell			QP

*Polycarbonate bowls are unsuitable for 600W HPS and 250W/400W HIT ratings.

Gear Trays Ordering Guide Lamps to be ordered separately.
Order Lantern and Gear Tray for complete luminaire.

Description	Weight (kg)	Cat. No.
Size 1		
70W HPS-T	1.7	QTGT1R0HPS70.4
70W HPS-T electronic ballast	1.0	QTGT1Z70
100W HPS-T	1.9	QTGT1R1HPS100.4
100W HPS-T electronic ballast	1.2	QTGT1Z100
150W HPS-T	2.5	QTGT1R1HPS150.4
150W HPS-T electronic ballast	1.3	QTGT1Z150
70W HIT-CE (Philips CDM-TT)	1.7	QTGTR1CDMTT70.4
150W HIT-CE (Philips CDM-TT)	2.5	QTGT1R1HPS150.4
42W TC-TEL	0.5	QTGT1R1CFL42
Less gear E40	0.5	QTGT1E40*
Size 2		
150W HPS-T	2.6	QTGT2HPS150.4
250W HPS-T	3.8	QTGT2HPS250.4
400W HPS-T	5.0	QTGT2HPS400.4
600W HPS-T - Remote Gear set†	-	QTGT2HPS600.4 and QTGP600
250W HIT (Philips HPI-T)	3.8	QTGT2HPS250.4
400W HIT (Philips HPI-T)	5.0	QTGT2HPS400.4
250W HIT (Osram HQI-T)	3.8	QTGT2HPS250.4
400W HIT (Osram HQI-T)	5.0	QTGT2HPS400.4
Less gear	0.6	QTGT2*

Add 'P' for photocell versions (e.g. QTGT2HPS150.4P) except Size 1 QTGT1E40.
* To be used for remote gear tray versions.
†600W HPS-T version operates from remote gear. Order QTGT2HPS600.4 (remote gear tray for mounting column base) and QTGP600 (gear tray with ignitor and lampholder for mounting in lantern).

Accessories

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

Cat. No. QT1R1SB
Lamp: 70W HPS-T (HO)
DLOR: 0.83 **LOR:** 0.83
Design attitude = 0°
Mounting height: 6m

Utilisation factors

Distance/Height W₁/H or W₂/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

Cat. No. QTGT2HPS250.4 + QT2SB
Lamp: 25W HPS-T (HO)
DLOR: 0.80 **LOR:** 0.80
Design attitude = 0°
Mounting height: 12m

Utilisation factors

Distance/Height W₁/H or W₂/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