# Gamma Collection [1:9] new

A collection of 'best-value' post-top amenity lanterns offering four styles, which can be used in a wide variety of design environments, including historical and heritage areas, precincts, city centres and plazas, pedestrian areas, residential areas, and urban regeneration projects. In each style there are choices in bowls and canopies, and in Gamma Modern there is the additional option of high efficiency reflector optics to enable street lighting demands to be met.

Gamma Basique (page 416)
Two bowl types and two canopy styles give wide choice of application. A vandal proof version is also included.
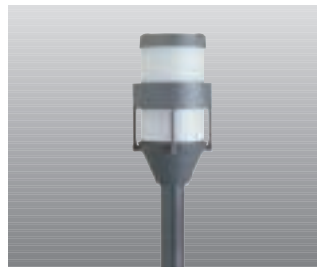
Gamma Deco (page 418)
Built around a parallel bowl form, the design values become more linear.
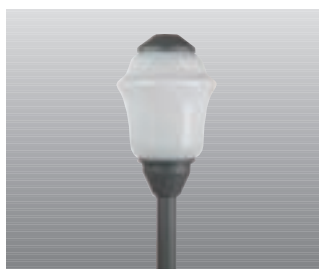
Gamma Classic (page 420)
Using different canopy styles, the design achieves a softer approach, making it suitable for areas of higher architectural value. A 'heritage' type bowl adds to the appeal.

Gamma Modern (page 422)
Larger bowls, and the option of high performance reflector optics make this unit suitable for areas where streetlighting performance is required. Three canopy styles widen the choice of overall appearance.

Vandal Proof Version

The Gamma Basique product is available in a special 'vandal proof' version.

- Available in clear reeded polycarbonate bowl/diffuser with small canopy

- Delivered fully assembled to ensure strength and resistance to ingress

- To classify for the 'vandal proof' label lanterns are subjected to a series of rigorous tests that have been developed in partnership with an external security laboratory.

Only when the product continues to operate after the tests and despite aesthetic damage will it be awarded the label. Such tests include:

- Air rifle bullet (0.177mm) and 15g steel ball catapult shot at 5m - equivalent to a shock resistance of 40 joules

- Repeated hammer strikes to the lit part of the lantern

- Vibration test on 5m column to simulate repeated shaking

- Attempts to destroy the lantern with pocket knife and lighter

Gamma Basique ^{2:9} new

Updated February 2004

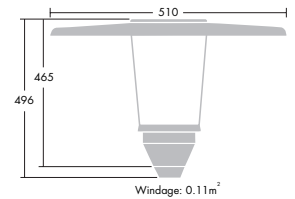|										
70W	HPS-T	E27		70W	HPS-E	E27		100W	HPS-T	E40
100W	HPS-E	E40								
70W	HIT-CE (Philips CDM-TT)	E27		80W, 125W	MBF	E27		35W	SOX	By22d
42W	TC-TEL	GX24q-4								

IP65 | EN 60598 | applied for | 5 joules (40 joules vandal proof version - see page 415) | CE

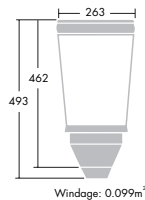## A 'best value' post-top amenity lantern range.

- Ideal for precincts, car parks, approach roads and pedestrian areas
- Choice of lamps including 'white light' options to suit differing applications
- Small or large canopy to suit given environment

- Clear or opal reeded bowl for improved aesthetics
- Vandal proof version for high risk areas - delivered fully assembled. 40 joules inpact resistance
- Refractor versions for asymmetric light distribution - controls/directs light and reduces light spill

- NEMA socket or miniature electronic photocell versions for automatic on/off switching
- Quick and easy installation with hinged gear tray
- Choice of RAL colours to order
- Environmentally friendly - material fully recyclable

510
465
496
Windage: 0.11m²

Clear reeded bowl + large canopy

263
462
493
Windage: 0.099m²

Opal reeded bowl + small canopy with miniature photocell

264
575
Windage: 0.12m²

35W SOX

263
462
493
Windage: 0.099m²

Vandal proof version
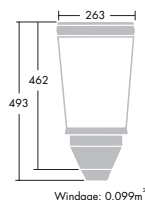
Materials/Finish

Bowl/Diffuser:
Injection moulded 5 joules acrylic (vandal proof version - Polycarbonate)
Opal reeded or clear reeded finish (vandal proof version - clear reeded only)
Base: Die-cast aluminium, dark grey powder coat textured finish
Canopy: Spun aluminium, dark grey powder coat finish with white underside

Quick and easy connection is obtained by raising the hinged gear tray

Installation/Mounting

Post top mounting - 76mm diameter x 76mm long spigot. (Dedicated accessory available to allow 60mm diameter x 100 long spigot mounting). Recommended mounting height: 4 to 5 metres. Fixes to shaft with 3 x M8 stainless steel screws (supplied). Vandal proof version supplied fully assembled, complete with clear reeded bowl and small canopy.

Specification

To specify state:
Amenity post top lantern made with die-cast aluminium base in grey power coat, 5 joules acrylic opal/clear reeded bowl/diffuser and canopy in spun aluminium with dark grey powder coat. As Thorn Gamma Basique.

Ordering Guide

Lamp to be ordered separately. For complete luminaire specify base assembly with gear, bowl/diffuser and canopy.

Lamp type & rating	Weight (kg)	Cat. No.
Base assemblies with gear		
HPS-E/T or CDM-TT 70W	3.4	QGB70HPS/CDM-TT.4
HPS-E/T 100W	3.6	QGB100HPS.4
HPS-T or CDM-TT with refractor 70W	4.1	QGB70HPS/CDM-TT.4REF
HPS-T with refractor 100W	4.3	QGB100HPS.4REF
MBF 80/125W	3.6	QGB80/125MBF.4
SOX 35W	3.6	QGB35SOX.4
TC-TEL 42W	2.4	QGB42CFL.4

Bowls/Diffuser

Description	Weight (kg)	Cat. No.
Clear reeded acrylic bowl	1.0	QGBCBAC
Opal reeded acrylic bowl	1.0	QGBOBAC

Canopies

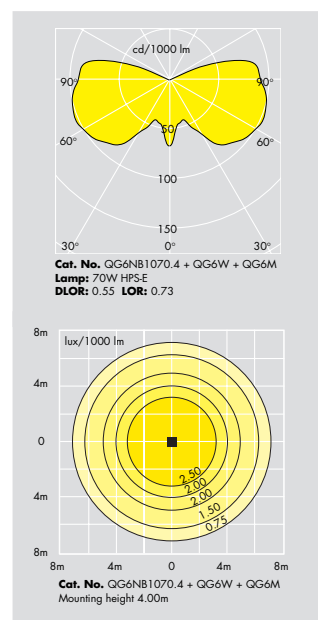| Description	Weight (kg)	Cat. No.
Large canopy:	1.3	QGBCANOPYL
with Nema socket	1.3	QGBCANOPYLP
with Miniature photocell	1.3	QGBCANOPYLPM
Small canopy:	1.0	QGBCANOPYS
with Nema socket	1.0	QGBCANOPYSP
with Miniature photocell	1.0	QGBCANOPYSPM
for SOX35	0.6	QGBCANOPYSSOX35
for SOX35 with Nema socket	0.6	QGBCANOPYSPSOX35
for SOX35 with Miniature photocell	0.6	GBCANOPYSPMSOX35

Vandal proof*

Lamp type & rating	Weight (kg)	Cat. No.
70W HPS-E/T or CDM-TT with Nema socket	5.2	QGVP70HPS/CDM-TT.4P
70W HPS-E/T or CDM-TT	5.2	QGVP70HPS.4
100W HPS-E/T with Nema socket	5.4	QGVP100HPS.4P
100W HPS-E/T	5.4	QGVP100HPS.4

*This product is delivered fully assembled, complete with clear reeded polycarbonate bowl/diffuser and small canopy.

Attachments

Description	Weight (kg)	Cat. No.
Spare clear reeded Polycarbonate bowl for Vandal Proof version	1.0	QGBVPPC
Adapter for 60mm diameter mounting	0.4	QGPT60

cd/1000 lm

Cat. No. QG6NB1070.4 + QG6W + QG6M
Lamp: 70W HPS-E
DLOR: 0.55 **LOR:** 0.73

lux/1000 lm

Cat. No. QG6NB1070.4 + QG6W + QG6M
Mounting height 4.00m

Gamma Deco ^{4:9} (new)

Updated February 2004

	70W	HPS-T	E27		70W	HPS-E	E27		100W	HPS-T	E40		100W	HPS-E	E40
	70W	HIT-CE (Philips CDM-TT)	E27		80W, 125W	MBF	E27		35W, 55W	SOX	By22d		42W	TC-TEL	GX24q-4

IP65	EN 60598	applied for	5 joules	CE

A post top amenity lantern range built around a parallel bowl form.

- Ideal for pedestrian areas in city centres, precincts and plazas

- 'Paralum' anti-glare accessory minimises glare disturbance whilst creating modern 'art deco' appearance

- Choice of lamps including 'white light' options to suit differing applications

- Deco or flat canopy to suit given environment

- Opal tubular bowl for improved aesthetics in modern applications

- Nema and miniature photocell versions for automatic on/off switching

- Quick and easy installation with hinged gear tray

- Choice of RAL colours to order

- Environmentally friendly - material fully recyclable

SOX 35W Opal bowl + Flat canopy

Opal bowl + Deco canopy + anti-glare

524ø   211ø
600   572
(76ø)
(60ø)
Windage 0.12m²   Windage 0.11m²

246ø
490   464
(76ø)
(60ø)
Windage 0.093m²
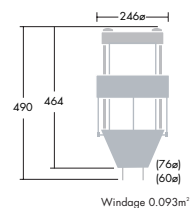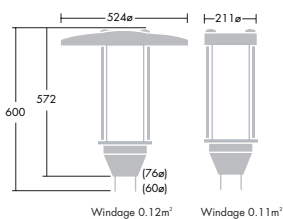
Materials/Finish

Bowl/Diffuser: Extruded 5 joule acrylic, opal finish.
Base: Die-cast aluminium, dark grey powder coat textured finish.
Canopy: Spun aluminium, dark grey powder coat textured finish.

Quick and easy connection is obtained by raising the hinged gear tray

Installation/Mounting

Post top mounting - 76mm diameter x 76mm long spigot. (Dedicated accessory available to allow 60mm diameter x 100 long spigot mounting). Recommended mounting height: 4 to 5 metres. Fixes to shaft with 3 x M8 stainless steel screws (supplied).

Ordering Guide Lamp to be ordered separately. For complete luminaire specify base assembly with gear, bowl/diffuser and canopy. Note SOX base assemblies must use matching wattage SOX bowls.

Lamp type & rating		Weight (kg)	Cat. No.
Base assemblies with gear			
HPS-E/T or CDM-TT	70W	3.4	QGB70HPS/CDM-TT.4
HPS-E/T	100W	3.6	QGB100HPS.4
TC-TEL	42W	2.4	QGB42CFL.4
MBF	80/125W	3.6	QGB80/125MBF.4
SOX	35W	3.6	QGB35SOX.4
SOX	55W	3.8	QGD55SOX.4
Bowls/Diffuser			
Opal straight Acrylic bowl		2.1	GAMDCBOWLT
Opal straight SOX35 Acrylic bowl		1.8	GAMDBOWLT35
Opal straight SOX55 Acrylic bowl		1.6	GAMDBOWLT55
Canopies			
Flat canopy (F)		1.0	GAMDMCANF
Flat canopy (F) with Nema socket		1.0	GAMDMCANFP
Flat canopy (F) with Miniature photocell		1.0	GAMDMCANFM
Deco canopy (D)		0.6	GAMDCAND
Deco canopy (D) with Nema socket		0.6	GAMDCANDP
Deco canopy (D) with Miniature photocell		0.6	GAMDCANDM
Attachments			
Adaptor for 60mm diameter mounting		0.4	QGPT60
External anti-glare attachment		2.5	GAMDC580ANTIG*

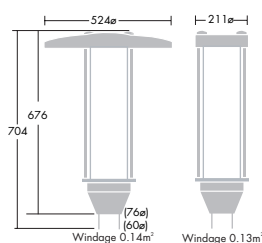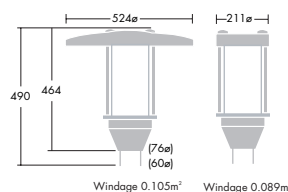*Not for use with SOX versions

Specification

To specify State:
Amenity post top lantern made with die-cast aluminium base in grey power coat, 5 joules acrylic cylindrical opal bowl/diffuser and canopy in spun aluminium with dark grey powder coat. As Thorn Gamma Deco.

Opal bowl + Deco canopy

Windage 0.105m² Windage 0.089m²

SOX 55W Opal bowl + Deco canopy

Windage 0.14m² Windage 0.13m²

Gamma Classic^{6:9} new

	70W	HPS-T	E27		70W	HPS-E	E27		100W	HPS-T	E40		100W	HPS-E	E40
	70W	HIT-CE (Philips CDM-TT)	E27		80W, 125W	MBF	E27		42W	TC-TEL	GX24q-4				

IP65	EN 60598		applied for		5 joules	CE

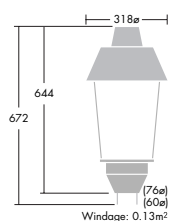## A post top amenity lantern range built around 'soft' decorative bowl forms.

- Diverse appearances within one range to suit different environments whilst retaining the same elegant style

- Choice of lamps including 'white light' options to suit differing applications

- Nema and Miniature photocell versions for automatic switching

- Quick and easy installation with hinged gear tray

- Choice of RAL colours to order

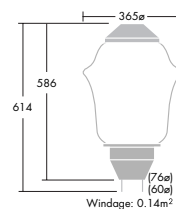- Environmentally friendly - materials fully recyclable

Heritage bowl + heritage canopy

Basique bowl + Borst canopy
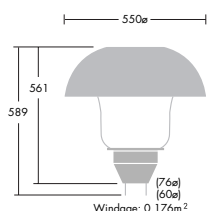
318ø
644
672
(76ø)
(60ø)
Windage: 0.13m²

Deco straight bowl + Art deco canopy

219ø
502
530
(76ø)
(60ø)
Windage: 0.096m²
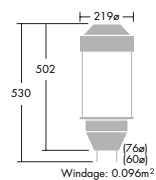
Heritage bowl + Large round canopy

550ø
561
589
(76ø)
(60ø)
Windage: 0.176m²

365ø
586
614
(76ø)
(60ø)
Windage: 0.14m²

Materials/Finish
Bowl/Diffuser: Extrusion blow-moulded acrylic, opal finish. Base: Die-cast aluminium, dark grey powder coat textured finish. Canopy: Spun aluminium, dark grey powder coat finish.

Installation/Mounting
Post top mounting - 76mm diameter x 76mm long spigot. (Dedicated accessory available to allow 60mm diameter x 100mm long spigot mounting). Recommended mounting height: 4 to 5 metres. Fixes to shaft with 3 x M8 stainless steel screws (supplied).

Specification
To specify state:
Amenity post top lantern made with die-cast aluminium base in grey powder coat, 5 joules acrylic opal bowl/diffuser and canopy in spun aluminium with dark grey powder coat.
As Thorn Gamma Classic.

Ordering Guide
Lamps to be ordered separately. To order complete fitting please specify: body, bowl and canopy. See combination table for suitable body/bowl/canopy arrangements.

Lamp type & rating	Body Type	Bodies with integral gear	Use with canopy style	Use with bowl type
Bodies for use with Borst canopy, type B				
70W HPS or CDM-TT	450	GAMM450M70.4	B	C
100W HPS	450	GAMM450M100.4	B	C
80W or 125W MBF	450	GAMM450M80.4	B	C
42W CFL	450	GAMM450M42.4	B	C
Bodies for use with Heritage canopy, type H, or Large round canopy, type R				
70W HPS or CDM-TT	375	GAM426C70.4	H or R	H
100W HPS	375	GAM426C100.4	H or R	H
80W or 125W MBF	375	GAM426C80.4	H or R	H
42W CFL	375	GAM426C42.4	H or R	H
Bodies for use with Art Deco canopy, type A				
70W HPS or CDM-TT	468	QGB 70HPS/CDM-TT.4	A	T
100W HPS	468	QGB 100HPS.4	A	T
80W or 125W MBF	468	QGB 80/125MBF.4	A	T
42W CFL	468	QGB 42CFL.4	A	T

Bowls

Description	Type	Cat. No.
Gamma basique clear reeded acrylic bowl	C	QGBCBAC
Gamma basique opal reeded acrylic bowl	C	QGBOBAC
Gamma deco bowl	T	GAMDCBOWLT
Gamma heritage bowl	H	GAMCOBH

Canopies

Description		Cat. No.
Classic borst	B	GAMCCANB
Classic borst with miniature electronic photocell	B	GAMCCANBM
Classic borst with Nema socket	B	GAMCCANBP
Classic art deco	A	GAMCCANA
Classic art deco with miniature electronic photocell	A	GAMCCANAM
Classic art deco with Nema socket	A	GAMCCANAP
Classic heritage	H	GAMCCANH
Classic heritage with miniature electronic photocell	H	GAMCCANHM
Classic heritage with Nema socket	H	GAMCCANHP
Classic large round	R	GAMCCANR
Classic large round with miniature electronic photocell	R	GAMCCANRM
Classic large round with Nema socket	R	GAMCCANRP

Attachments

Description	Use with bowl style	Cat. No.
Accessory to enable mounting on 60mm spigot		QGBPT60
Anti glare louvre for use with type T bowl	T	GAMDC580

Combination Table

		Bowl/Diffuser	Basique (C)	Deco (T)	Heritage (H)
Canopies (Type)					
Borst canopy	(B)		GAM 450	-	-
Art deco canopy	(A)		-	QGB ...	-
Heritage canopy	(H)		-	-	GAM 426
Large round canopy	(R)		-	-	GAM 426
Attachment					
Anti - glare			-		-

Gamma Modern [8:9] new

	70W	HPS-T	E27		70W	HPS-E	E27		100W	HPS-T	E40		100W	HPS-E	E40
	70W	HIT-CE (Philips CDM-TT)	E27		80W, 125W	MBF	E27		42W	TC-TEL	GX24q-4				

IP65	EN 60598	applied for	5 joules	CE

A post top amenity lantern range built around larger bowl forms, with an option of 'streetlighting' optical reflector.

- Ideal for modern applications
- Internal aluminium reflector option enhances downward light to increase efficiency and save energy
- Choice of lamps including 'white light' options
- Two lamp positions - horizontal with internal reflector, vertical without reflector
- Choice of spherical, conical or flat canopy to suit surroundings
- Opal or clear bowl for improved aesthetics
- Nema and miniature photocell versions for automatic switching
- Quick and easy installation with hinged gear tray
- Choice of RAL colours to order
- Environmentally friendly - materials fully recyclable

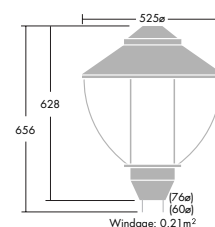*Spherical bowl + conical canopy*

Materials/Finish
Bowl/Diffuser: Thermoformed acrylic, opal or clear finish.
Base: Die-cast aluminium, dark grey powder coat textured finish.
Canopy: Spun aluminium, dark grey powder coat finish.
Reflector: Pure aluminium.

Installation/Mounting
Post top mounting - 76mm diameter x 76mm long spigot. (Dedicated accessory available to allow 60mm diameter x 100mm long spigot mounting). Recommended mounting height: 4 to 5 metres. Fixes to shaft with 3 x M8 stainless steel screws (supplied).

Specification
To specify state:
Amenity post top lantern made with die-cast aluminium base in grey powder coat, 5 joules acrylic opal/clear bowl/diffuser and canopy in spun aluminium with dark grey powder coat. Optional internal aluminium reflector.
As Thorn Gamma Modern.

525ø
628
656
(76ø)
(60ø)
Windage: 0.21m²

www.thornlighting.co.uk
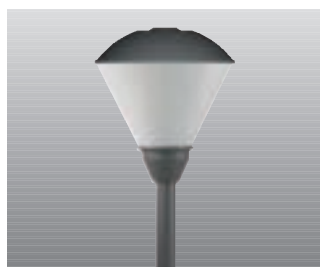
Conical bowl + spherical canopy

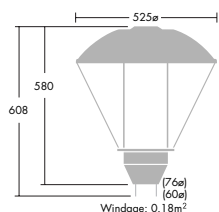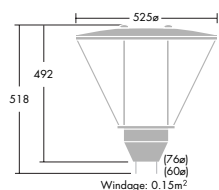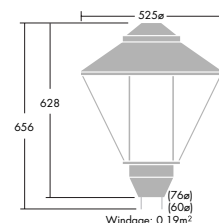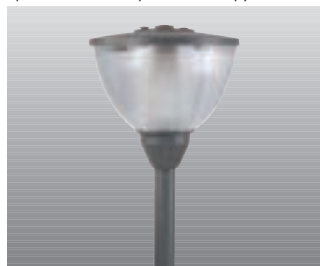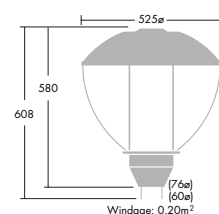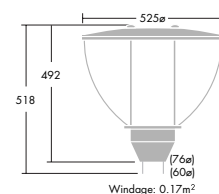*Conical bowl + flat canopy*

Conical bowl + conical canopy

Spherical bowl + spherical canopy

Spherical bowl + flat canopy

Ordering Guide Lamps to be ordered separately. To order complete luminaire specify: Body, bowl and canopy. See combination table for suitable body/canopy/bowl arrangements.

Lamp type & rating	Body type	Bodies with integral gear	Bodies with integral gear & precision optical reflector system	Use with Canopy style
Bodies reflector optic type, for use with Modern spherical canopy, type MRA				
70W HPS or CDM-TT	450RA		GAMM450MRA70.4	MRA
100W HPS	450RA		GAMM450MRA100.4	MRA
Bodies for use with Modern spherical canopy, type M				
70W HPS or CDM-TT	450	GAMM450M70.4		M
100W HPS	450	GAMM450M100.4		M
80W or 125W MBF	450	GAMM450M80.4		M
42W CFL	450	GAMM450M42.4		M
Bodies for use with Flat canopy, type F				
70W HPS or CDM-TT	375	GAMM375F70.4		F
100W HPS	375	GAMM375F100.4		F
80W or 125W MBF	375	GAMM375F80.4		F
42W CFL	375	GAMM375F42.4		F
Bodies for use with Conical canopy, type C				
70W HPS or CDM-TT	468	GAMM468C70.4		C
100W HPS	468	GAMM468C100.4		C
80W or 125W MBF	468	GAMM468C80.4		C
42W CFL	468	GAMM468C42.4		C

Bowls

Description	Type	Cat. No.
Conical, opal	V	GAMMBOWLVO
Conical, clear	V	GAMMBOWLVC
Spherical, opal	S	GAMMBOWLSO
Spherical, clear	S	GAMMBOWLSC
Spherical, clear reeded	S	GAMMBOWLSCR

Canopies

Modern spherical, reflector version	MRA	GAMMCANMRA
Modern spherical, reflector version, miniature photocell	MRA	GAMMCANMMRA
Modern spherical, reflector version, Nema socket	MRA	GAMMCANMPRA
Modern spherical	M	GAMMCANM
Modern spherical, miniature photocell	M	GAMMCANMM
Modern spherical, Nema socket	M	GAMMCANMP
Modern flat	F	GAMDMCANF
Modern flat, miniature photocell	F	GAMDMCANFM
Modern flat, Nema socket	F	GAMDMCANFP
Modern conical	C	GAMMCANC
Modern conical, miniature photocell	C	GAMMCANCM
Modern conical, Nema socket	C	GAMMCANCP

Attachment

Accessory to enable mounting on 60mm spigot	QGPT60

Combination Table

		Bowl/Diffuser	Spherical (S)	Conical (V)
Canopies (Type)				
Modern spherical	(M)		GAM 450	GAM 450
Conical	(C)		GAM 468	GAM 468
Flat	(F)		GAM 375	GAM 375
Modern spherical	(MRA)		GAM 450 RA	GAM 450 RA