

Alpha Eight



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A high performance lantern for lighting traffic routes.

Key Features

- LTI distribution (low threshold increment) to BS5489-2
- Optimised for 150W, 250W and 400W HPS-T standard and high output lamps
- Available with flat glass or bowl
- Durable glass reinforced polyester canopy
- Post top adaptors available
- High pressure sodium anti-cycling (Super APU) ignitor stops nuisance end of life flicker

Lamp Types

-  150W, 250W and 400W HPS-T(HO), cap: E40
-  MBF 250W, cap: E40

Materials/Finish

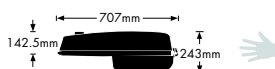
Canopy: White glass reinforced polyester with seamless polyurethane gasket
 Gear tray/spigot entry: Pressure die cast LM6 aluminium with stainless steel fixing bolts
 Bowl: Injection moulded UV stabilised acrylic (Polycarbonate available up to 250W)
 Glass lens: Toughened soda lime with stainless steel hinges and toggles
 Reflector: High purity anodised aluminium

Installation/Mounting

Side entry 42mm Ø x 110mm long spigot. 5° inclination bracket required.
 Adaptors available for 60mm and 76mm Ø post top fixing.
 Central pivoting canopy gives access to control gear.
 Recommended height 8-15m.
 Thorn columns: QC8 and QC10
 When using post-top adaptor, columns should be ordered with/QFS1B.

Standards

BS4533.102.3:1981 (LTI distribution (low threshold increment) to BS5489-2 ♡ ☺)
 IP64 rating with QA8DHP bowl (up to 250W)
 IP54 with flat glass (or bowl 400W) ☹ ☹



Alpha Eight with DH bowl

Option



Alpha Eight with flat glass

Alpha Eight

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Ordering Guide Lamps and photocells to be ordered separately.

Complete with control gear. Bowl to be ordered separately but flat glass version supplied complete. Bowled versions cannot be converted to flat glass.

Lamp type & rating	Description	Windage (m ²)	Less photocell socket Weight (kg)	socket Cat. No.	With photocell socket Weight (kg)	socket Cat. No.
HPS-T(HO) 150W	Canopy with gear	0.11	8.5	QA8 HNB 1150.4	8.6	QA8 HPNB1150.4
HPS-T(HO) 150W	Canopy with gear and flat glass	0.09	9.0	QA8 GHNB 1150.4	9.1	QA8 GHPNB1150.4
HPS-T(HO) 250W	Canopy with gear	0.11	9.5	QA8 HNB 1250.4	9.6	QA8 HPNB 1250.4
HPS-T(HO) 250W	Canopy with gear and flat glass	0.09	10.0	QA8 GHNB 1250.4	10.1	QA8 GHPNB1250.4
HPS-T(HO) 400W	Canopy with gear	0.15	17.7	QA8 HNB 1400.4	17.8	QA8 HPNB1400.T
MBF 250W	Canopy with gear	0.11	9.3	QA8 HB 1250.4		
	Canopy less gear	0.11	7.0	QA8 H 1250		
	Polycarbonate bowl (250W max)		0.78	QA8 DHP*		
	Post top cast aluminium adaptor for 60mm Ø spigot		2.1	QA8 PT		
	Post top galvanised steel adaptor for 76mm Ø spigot		3.6	QA8 PT76		

* Must be used to achieve IP64.

Note: windage includes bowl or flat glass.

Export voltages available, refer to page 559 for details.

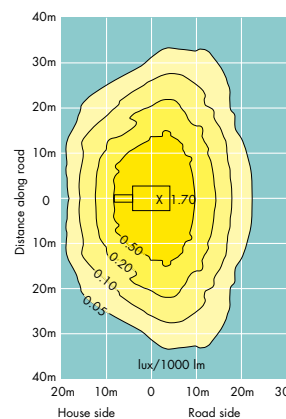
Specification

To specify state:

Side entry lantern for tubular HPS lamps up to 400W/250W MBF. Integral control gear mounted on cast LM6 alloy end support with white GRP canopy.
As Thorn Alpha Eight.

**Photometric Data**

Cat. No. QA8 HNB 1150.4 + QA8 DHP

**Utilisation Factors**

Distance/Height W ₁ /H or W ₂ /H	Road side	House side
0.2	0.08	0.08
0.4	0.16	0.14
0.6	0.23	0.19
0.8	0.28	0.22
1.0	0.32	0.25
1.5	0.38	0.28
2.0	0.41	0.30
3.0	0.44	0.31
4.0	0.45	0.31

Mounting height: 10m
Lamp: 150W HPS-T(HO)
LCR: 0.81 DLOR: 0.78
Design attitude: 0°