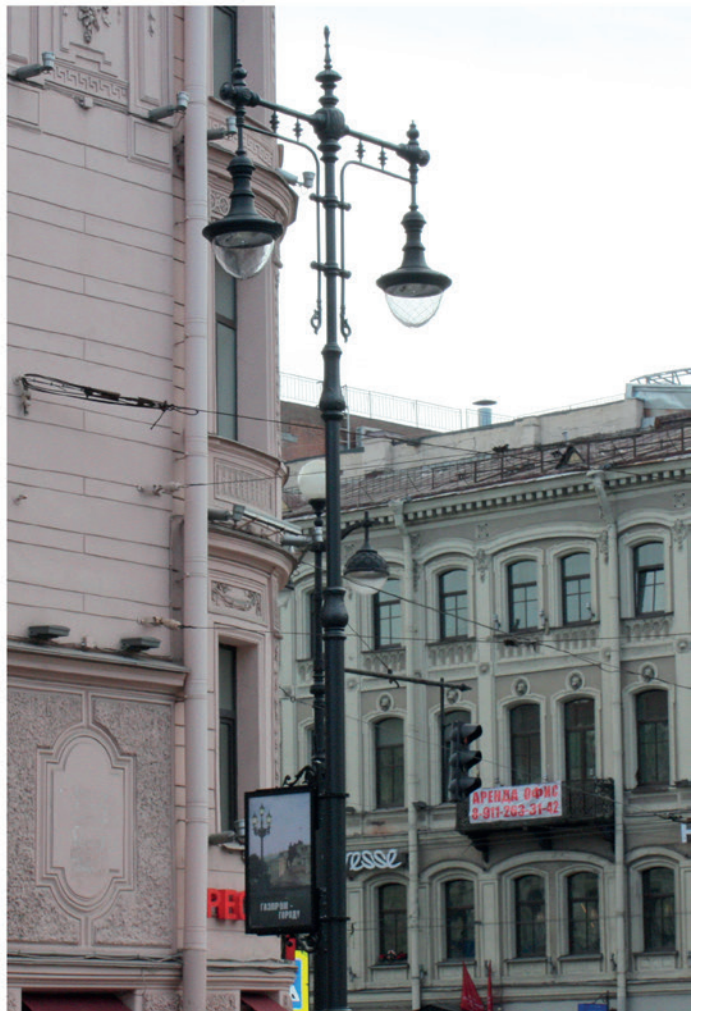


V.12











**Applications**

Roads and highways, parking lots and large areas, roundabouts, pedestrian and bicycle paths, pedestrian crossing.

**Fixing**

- Suspended with M5x2 male threaded attachment
- Side mounting with Ø48mm male threaded attachment

**Materials**

- Die-cast aluminum housing
- Die-cast polycarbonate screen
- Stainless steel fasteners
- Silicone gasket between top and bottom parts

**Finishes - powder coating**

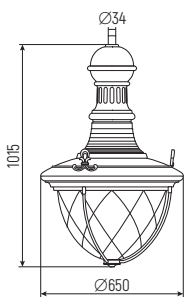
- Alcea Apex Black
- Alcea Apex Grey
- Could be painted in any chosen color in RAL

Recommended installation height	from 7 to 12 m
Size	650x1015 mm
IP	65
Supply voltage	220-240V
Electrical insulation	Class I, II
Power factor correction	PFC > cos φ 0.9

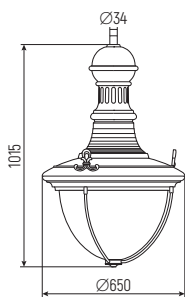
**Family V.12**

**Suspended**

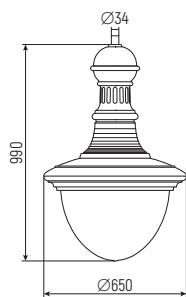
**Side mounting**



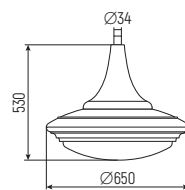
V.12-01



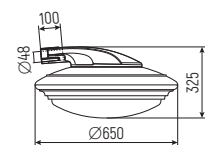
V.12-02



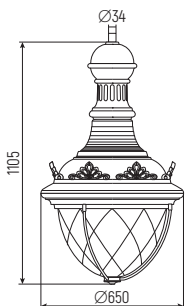
V.12-03



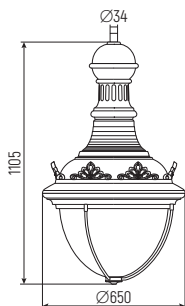
V.12-04



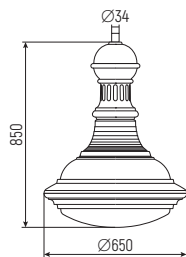
V.12-15



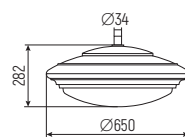
V.12-10



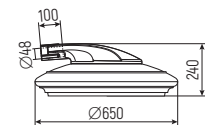
V.12-11



V.12-12



V.12-05



V.12-16

## Main LED data



### ENCLOSURE PROTECTION Electrical auxiliaries

- Programmable electronic power supply with functions: DALI, 1-10V
- Terminals wires max. section of 2.5 mm<sup>2</sup>
- Surge protection for differential/common mode up to 10kV

### Power supply

- Estimated life (L85 – Ta 25°C): >100,000h

### SUPPLY VOLTAGE

220V-240V, 50/60Hz frequency

### SURGE PROTECTION

10kV/10kV

### POWER SUPPLY

Programmable electronic

### POWER FACTOR CORRECTION

PFC > cos φ 0.9

### ELECTRICAL INSULATION

Class II

### ENCLOSURE PROTECTION

Water and dust IP65

DALI, 1-10V

With the two-way digital DALI protocol lighting levels can be adjusted, consumption and system diagnostics monitored. By the analog signal 1-10V, the illumination levels regulation is enabled. Inside the products on the cabling board, space has been made to accommodate an electronic unit for remote management functionalities.

The optical system is composed of overlapping PMMA lenses with high performance and constant light transmission.

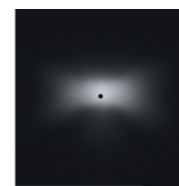
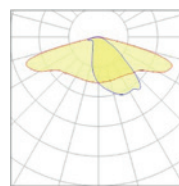
V.12 is equipped with highly efficient latest generation of LED Cree XP-L2 positioned on a ceramic base to provide high thermal conductivity and electrical insulation for a longer service life.

### Flux sizes option

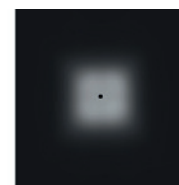
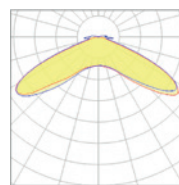
2700K	9718lm	86W	113lm/W
2700K	11880lm	108W	110lm/W
2700K	14464lm	128W	113lm/W
2700K	16611lm	147W	113lm/W
2700K	21696lm	192W	113lm/W
2700K	25764lm	228W	113lm/W
3000K	10578lm	86W	123lm/W
3000K	12960lm	108W	120lm/W
3000K	15744lm	128W	123lm/W
3000K	18081lm	147W	123lm/W
3000K	23616lm	192W	123lm/W
3000K	28044lm	228W	123lm/W
4000K	11438lm	86W	133lm/W
4000K	14040lm	108W	130lm/W
4000K	17024lm	128W	133lm/W
4000K	19551lm	147W	133lm/W
4000K	25536lm	192W	133lm/W
4000K	30324lm	228W	133lm/W

## Photometric light distribution

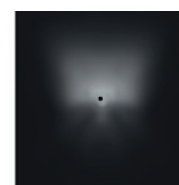
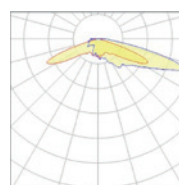
Type 1



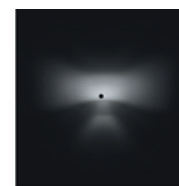
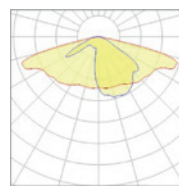
Type 2



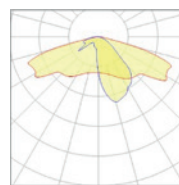
Type 3



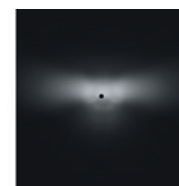
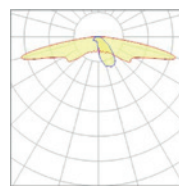
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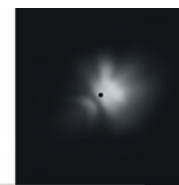
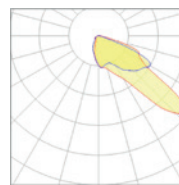
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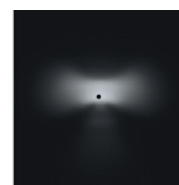
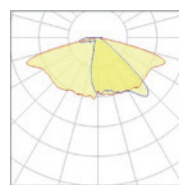
Type 6



Type 7



Type 8



**Materials.** The posts are made of steel, with cast iron elements. The luminaires are made of steel and die-cast aluminium.

**Finishes.** The standard colors are Apex Grey and Apex Black that are obtained from a chromatic combination, which has been developed after a long aesthetic research. Power coating for luminaire and liquid for the post.



