ELECTRONIC &
SIGNAL TRAFFIC

LA-COBRA
Mini

LA-COBRA-Mini are energy- efficient luminaires requiring minimal maintenance. Even some maintenances can be done without tool for easily operation.
With harmonious shape and aesthetic design enhances any landscape. Future offers many types high-performance photometric solutions for lighting streets, pedestrian areas, parks and bike paths.

No. of LEDs and Lighting Flux
Future:
32,40,48,60,64,80,100
From 3350 to 17900 lumens
Future Mini:
16,24,32,40
From 1710 lumens to 4100 lumens

Cool white: CW 5000K@6500K
Neutral white: NW 4000K
Warm white: WW 3000K

IP	IK	Class I	Class II
66	08		

E-mail: luisbernalb@lya-electronic.com

ELECTRONIC &
SIGNAL TRAFFIC

A Housing the housing is made of very corrosion resistant die-cast aluminium. Polyester powder coated painting after chemical washing treatment. Standard color: RAL9005 and RAL7035.Any other colours on request.

B Refractor in flat toughened glass to prevent upward light. Fixed to the frame with metal clips for easy replaceabilty. Very high light transmission to optimise the Light Output Ratio.

C Spigot made of die-cast aluminium, standard in same colour as body. Universal post top / side entry spigot for Ø60mm and Ø76mm .

D Mounting with two stainless steel M10 bolts (extra long bolts for small column can be ordered with luminaire).

E Opening / closing (only for cable connection and in case of LED module or driver replacement). closingclip made of very corrosion resistant die-cast aluminium, standard in same colour as body, fixed to the frame with stainless steel spring, for easy and tool-less operation . canopy with LED module hinges upwards and is secured by a stainless steel locking bar, making the LED module safely accessible from below . Safe Maintenance Technology safety switch disconnects power on opening .

F Gear tray made in high thermal and mechanical resistance thermoplasticmaterial (30% fibreglass), tool free removable after disconnecting the plug.

G Gear with Philips XITANIUM driver, optional programmable, 1-10V or DALI. SPD and EMI as per request.

H Gasket IP 66 for complete luminaire, In silicon to guarantee the IP level around the perimeter of the upper cover and the location of the refractor.

I Cable connection M20 cable gland with strain relief, for cable Ø10-14mm.

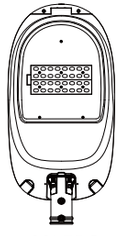
J Electrical connection
Class II: Neutral / Phase are connected to safety switch; for Class I earth wire to be connected on earth stud in housing.
1-10V or DALI incoming wiring is connected to a separate termination block.

K Air filter
To avoid problem of depression condensation and to reduce internal temperature.

E-mail: luisbernalb@lya-electronic.com

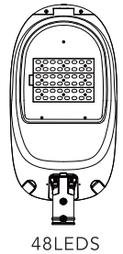
ELECTRONIC &
SIGNAL TRAFFIC

COBRA
A version



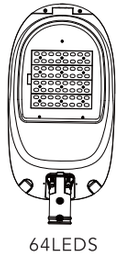
32LEDS

	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-32	350mA	35W	3350	3430	3570
	530mA	50W	5000	5200	5350
	700mA	70W	6500	6700	6900



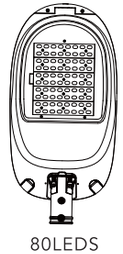
48LEDS

	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-48	350mA	55W	5000	5200	5400
	530mA	80W	7550	7750	8000
	700mA	110W	9760	10050	10400



64LEDS

	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-64	350mA	70W	6500	6900	7200
	530mA	120W	10050	10350	10700
	700mA	140W	13000	13400	13850



80LEDS

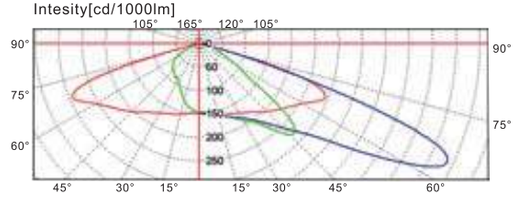
	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-80	530mA	135W	12580	12980	13380
	580mA	150W	13750	14200	14650
	700mA	180W	16250	16800	17300

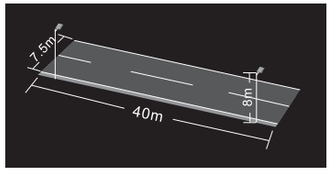
	Lave (cd/m2)	Uo	U	Ti (%)	SR	W (System)	W/km
Target(ME5)	0.5	0.35	0.4	15			
100W HPS Luminaire	0.75	0.38	0.43	13.99	0.48	120	3000
Future 32 (700mA 70W)	0.52	0.53	0.45	10.98	0.56	70	1750

Scheme: Luminaire mounting height 8M, spacing 40M, road width 8.5M (single way 2 lanes with 3.75M each and shoulder 1M.
Single side arrangement, tilt 0, outreach 0.5M, maintenance factor 0.85 road surface C2.

Result: LA-COBRA A version 70W can replace a conventional 100W HPS luminaire with better performance (improved uniformity, less glare). 40% energy savings are achievable depending on column spacing, road configuration and lighting class with the added comfort of white light.

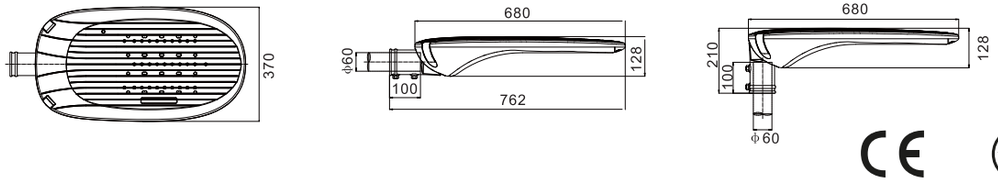
PHOTOMETRY





DIMENSIONS

Carton Dimension	820X410X170mm	Weight(Kgs)	10Kgs



E-mail: luisbernalb@lya-electronic.com

ELECTRONIC &
SIGNAL TRAFFIC

COBRA
B version

	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-40	350mA	45W	4200	4330	4500
	530mA	65W	6290	6490	6690
	700mA	90W	8100	8400	8650

	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-60	350mA	65W	6300	6500	6750
	530mA	100W	9400	9700	10000
	700mA	135W	12200	12600	13000

	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-80	350mA	90W	8400	8650	9000
	530mA	135W	12580	12980	13380
	700mA	180W	16250	16800	17300

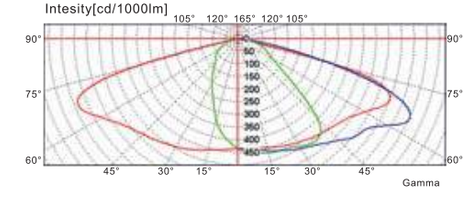
	Current	Power consump	Nominal intial Flux(Lm) WW	NW	CW
LA-COBRA-100	350mA	110W	10500	10800	11250
	530mA	165W	15700	16200	16700
	580mA	180W	16800	17400	17900

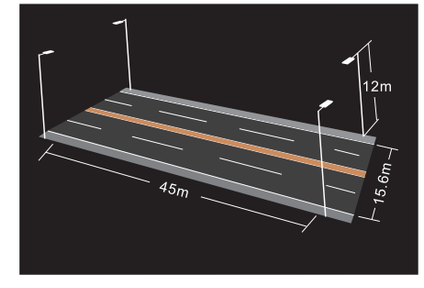
	Lave (cd/m2)	Uo	U	Ti (%)	SR	W (System)	W/km
Target(ME2)	1.50	0.4	0.70	10	0.5		
250W HPS Luminaire	1.94	0.73	0.73	9.84	0.65	280	6440
Future 100 (580mA 180W)	1.50	0.70	0.71	8.59	0.62	180	4140

Scheme: Luminaire mounting height 12M, spacing 45M, road width 21.6M (dual way 4 lanes with 3.75M each, shoulder 2X3M and central reserve 0.6M) . Opposite arrangement, tilt 5, outreach 1.5M, maintenance factor 0.85, road surface C2.

Result: **LA-COBRA** B version 180W can replace a conventional 250W HPS luminaire with better performance (improved uniformity, less glare). 35% energy savings are achievable depending on column spacing, road configuration and lighting class with the added comfort of white light.

PHOTOMETRY





The nominal initial flux is an indicative LED flux @ tj 25° C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire.
The nominal initial flux depends on the type of LED in use and likely to change in accordance with the continuous and rapid developments in LED technology.

Cool white: CW 5000K@6500K
Neutral white: NW 4000K
Warm white: WW 3000K

E-mail: luisbernalb@lya-electronic.com

ELECTRONIC &
SIGNAL TRAFFIC

LYA Electronic and SignalL Traffic, Calle Maestro sosa 22-1
(VALENCIA - ESPAÑA) Cra 65 #79-121
(BARRANQUILLA - COLOMBIA)
Tel: +57 3057923728
E-mail: info@lya-electronic.com
Website: www.lya-electronic.com