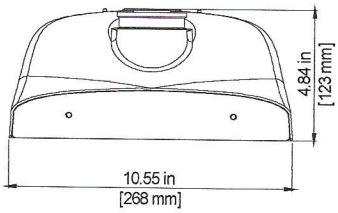
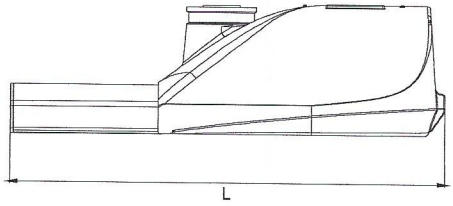
EC
ECobra-head™ LED Street Light

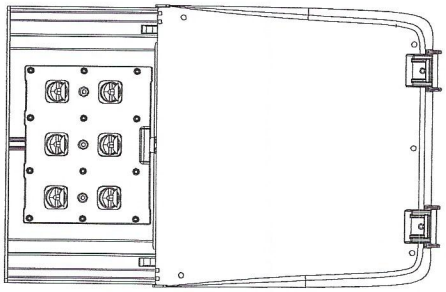
Project
Type
Catalog No.

Luminaire Data

	L	Weight	EPA
EC1	16.1 in [409 mm]	10.8 lb [4.9 kg]	0.40 ft^2
EC3	20.8 in [528 mm]	12.7 lb [5.8 kg]	0.45 ft^2
EC4	23.5 in [597 mm]	14.0 lb [6.3kg]	0.48 ft^2
EC7	30.6 in [777 mm]	19.3 lb [8.8 kg]	0.57 ft^2
EC9	35.4 in [899 mm]	21.3 lb [9.7kg]	0.63 ft^2







Ordering Information

Sample Catalog No. EC1 4M MV NW 2 GY700 PCR5 WL

Product & No. & Type of LEDs	Voltage	Nominal Color Temperature[1]	Distribution	Finish[2]	Drive Current[3]		Options	
EC1 4M EC1 6M EC3 10M EC4 14M EC7 18M EC7 20M EC7 24M EC9 30M	MV 120-277V HV 347-480V	NW 4000K	2 Type 2 3 Type 3	GY Gray	350 350mA 530 530mA 700 700mA		BSK Bird Spider Kit SPB Square Pole Bracket RPB Round Pole Bracket PTB Pole-Top Bracket DSC Door Safety Cable HSS[4] House Side Shield CSS[5] Cul-de-sac Side Shield FDC[6] Fixed Drive Current LPCR Less Photocontrol Receptacle PCR5 ANSI 5-wire Photocontrol Receptacle PCR7 ANSI 7-wire Photocontrol Receptacle SC PCR Shorting Cap WL Utility Wattage Label	

Notes:
1 4000K standard, consult factory for other color temperatures.
2 Gray standard, consult factory for other finishes.
3 Factory set drive current, field adjustable standard. Refer to performance data on page 3.
4 Flush mounted House Side Shield factory installed, also available for field installation. Shield cuts light off at 1/2 mounting height behind luminaire.
5 Flush mounted Cul-de-sac Shield factory installed, also available for field installation. Shield cuts light off at 1 mounting height on either side of luminaire.
6 Non-field adjustable drive current. Specify 350mA, 530mA or 700mA setting.

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Luminaire Specifications

Housing
Die cast and extruded aluminum housing with universal two-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. Leveling adjustment of +/-5^0. Meets ANSI C136.31-2001 Normal Application, Bridge & Overpass, and Caltrans 611 Vibration Standards. Electrical components are accessed without tools and are mounted on a removable power door. Power door features quick electrical disconnects to terminal block and LED board.

Light Emitting Diodes
Hi-Flux/Hi-power white LEDs produce a minimum of 95% of initial intensity at 100,000 hours of life. LEDs are tested in accordance with IESLM-80 testing procedures. Mean correlated color temperature of 4000K (standard) and 70 minimum CRI. LEDs are 100% mercury and lead free.

Optical Systems
Micro-lens systems produce IESNA Type 2 or Type 3 distributions. Luminaire produces 0% total lumens above 90^0 (BUG Rating, U=0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. Both shields are field installable without tools.

Electrical
Power supply drive current is field adjustable (350mA, 530mA or 700mA). Power supply features a minimum power factor of .90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Transient voltage complies with ANSI C62.41 Cat. A. Integral surge protector is tested per ANSI/IEEE C62.45 procedures based on ANSI/IEEE C62.41.2 definitions for standard and optional waveforms for Location Category C High. Photocontrol receptacle is standard, ANSI C136.41 5-wire (PCR5) or 7-wire (PCR7) dimming receptacle optional. Photocontrol or control module is provided by others. Power Supply is 0-10V dimmable standard with PCR5 or PCR7 option.

Finish
Housing receives a fade and abrasion resistant, epoxy polyester powder coat, light gray finish standard. Aluminum extruded components are anodized. Meets 3000 hours salt spray test.

Listings/ Ratings/ Labels
Luminaires are UL listed for use in wet locations in the United States and Canada. Optical systems maintain an IP66 rating. Design Lights Consortium qualified product.

Photometry
Luminaires are photometrically tested by certified independent testing laboratories in accordance with IESLM-79 testing procedures.

Warranty
10-year limited warranty is standard on luminaire and components.

Performance Data
See next page

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Performance Data

All data nominal, consult factory for IES files or LM-79 reports.

			Type 2			Type 3		
No. of LEDs & Type	Drive Current (mA)	System Wattage (W)	Delivered Lumens (Lm)	Efficacy (Lm/W)	BUG Rating	Delivered Lumens (Lm)	Efficacy (Lm/W)	BUG Rating
EC1 4M	350*	19	1900	100	B1 U0 G1	1800	95	B1 U0 G1
	450	23	2300	100	B1 U0 G1	2200	96	B1 U0 G1
	530	27	2700	100	B1 U0 G1	2500	93	B1 U0 G1
	700	35	3300	94	B1 U0 G1	3100	89	B1 U0 G1
EC1 6M	350	29	3000	103	B1 U0 G1	2900	100	B1 U0 G1
	530	42	4100	98	B1 U0 G1	4000	95	B1 U0 G1
	700	54	5000	93	B1 U0 G1	5000	93	B1 U0 G1
EC3 10M	350	40	4700	118	B1 U0 G1	4500	113	B1 U0 G1
	530	63	6500	103	B2 U0 G2	6500	103	B1 U0 G1
	700	87	8300	95	B2 U0 G2	8300	95	B2 U0 G1
EC4 14M	350	65	6800	105	B2 U0 G2	6800	105	B1 U0 G1
	530	98	9400	96	B2 U0 G2	9400	96	B2 U0 G2
	700	130	11700	90	B2 U0 G2	11700	90	B2 U0 G2
EC7 18M	350	82	8700	106	B2 U0 G2	8600	105	B2 U0 G2
	530	122	12000	98	B2 U0 G2	11900	98	B2 U0 G2
	700	163	15000	92	B2 U0 G2	14800	91	B2 U0 G2
EC7 20M	350	90	9700	108	B2 U0 B2	9600	107	B2 U0 G2
	530	137	13300	97	B3 U0 G3	13200	96	B2 U0 G2
	700	180	16700	93	B3 U0 G3	16500	92	B3 U0 G2
EC7 24M	350	109	11600	106	B3 U0 G3	11500	106	B2 U0 G2
	530	165	16000	97	B3 U0 G3	15800	96	B2 U0 G2
	700	215	20000	93	B3 U0 G3	19700	92	B3 U0 G3
EC9 30M	350	130	14000	108	B3 U0 G3	13800	106	B3 U0 G2
	530	198	19300	97	B3 U0 G3	19100	96	B3 U0 G2
	700	260	24000	92	B3 U0 G3	23700	91	B3 U0 G3

Note:
* DLC qualification for EC1 4M at 350mA limited to 120-240V

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