LEDway® Road

IP66 Street Light – Adjustable Arm Mount – 1S (Type I Short)

Product Description

Luminaire housing is all aluminum construction. All components are mercury free and recyclable. Sharp profile for low wind exposure. Tooless entry. Provided with a tenon mounting system that allows for direct arm or pole-top installation (90°) on cylindrical poles and arms with a diameter of 60mm. The adjustable bracket allows the fixture to be tilted by increments of 5° in order to maintain a horizontal position with respect to the ground, making it ideal for retrofit installations as well.

Performance Summary

Utilizes BetaLED® Technology

Patented NanoOptic® Product Technology

CRI: Minimum 70 CRI

CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)

Warranty†:
Class 1 - 10 years on luminaire/10 years on Colorfast DeltaGuard® finish
Class 2 - 5 years on luminaire/10 years on Colorfast DeltaGuard® finish

Accessories

Field Installed Accessories	
BRDSPK30 Bird Spikes for Light Engine, 20-30 LEDs	**KIT ADATT. PALO 34MM** Adaptor Kit for dia. 34mm poles
BRDSPK60 Bird Spikes for Light Engine, 40-60 LEDs	**KIT ADATT. PALO 42MM** Adaptor Kit for dia. 42mm poles
BRDSPK120 Bird Spikes for Light Engine, 80-120 LEDs	**KIT ADATT. PALO 48MM** Adaptor Kit for dia. 48mm poles
BRDSPKHSG Bird Spikes for Housing	

LED Count	Dimension	Measurement	Weight
20	"A"	156mm	7,52kg
30		156mm	7,92kg
40		270mm	9,22kg
50		270mm	10,42kg
60		270mm	10,52kg
80		552mm	14,72kg
90		552mm	14,82kg
100		552mm	14,92kg
110		552mm	15,02kg
120		552mm	15,12kg

Ordering Information

Example: LXD1S702EGSVI5

L	X	D	1S	7	02	E	G	SV	I5
Product	**Insulation Class**	**Model**	**Optic**	**Mounting**	**LED Count (x10)**	**Version**	**Options** *(consult company for available options)*	**Color Options***	**Drive Current**
LEDway	**X** Class 1 **Y** Class 2	**D** Road	**1S** Type I Short	**7**	**02** **03** **04** **05** **06** **08** **09** **10** **11** **12**	**E**	**No code 5700K** **43 4000K** **K# Light Control with Occupancy Sensor**** - Flux dimming control with occupancy sensor **D# Power Line Communication System (PLC)** - Power line control system with dimmable driver **G# Bi-Level Control** - Two distinct power levels, High/Low **D Dimmable Driver** - Dimmable driver 1-10V with external controller **S# Virtual Midnight** - Two levels option with virtual midnight - Available up to 100 LEDs in class 1 - Available up to 60 LEDs in class 2 **T# Reprogrammable Virtual Midnight** - Reprogrammable 2 levels option with virtual midnight **R# Flux Dimming** - Integral dimming system with plants including flux regulators - Available up to 100 LEDs in class 1 - Available from 80 to 120 LEDs in class 2	**SV** Silver (Standard) **BK** Black **BZ** Bronze **SB** Silver Bronze **WH** White	**No Code** 700mA **I5** 525mA **I3** 350mA

* Light engine portion of extrusion is not painted and will remain natural aluminum regardless of color selection
† See www.cree.com/lighting for warranty terms
** Not available in Class 2

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Product Specifications

BETALED® TECHNOLOGY

LEDway® Road luminaires are powered by BetaLED® Technology delivering outstanding illumination, lasting performance and optimum energy efficiency. Patented NanoOptic® technology optimizes target illumination, performance and offers flexibility with multiple optic choices. NanoOptic compliant with light pollution and photobiological safety standards

CONSTRUCTION & MATERIALS

- Housing is all aluminum construction
- Designed with 1-10V dimming capabilities. Controls by others
- Adjustable mounting arm is rugged die cast aluminum and mounts to a 60mm outer dimension tenon
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Bronze, black, white, and silver bronze are also available

ELECTRICAL SYSTEM

- **Input Voltage:** 220 – 240Vac (capable 120-277Vac, please consult company for available configurations) 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Quick disconnect harness suitable for mate and break under load provided on power feed to driver for ease of maintenance

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE Listed
- ENEC Listed only for class II
- Enclosure rated IP66 per IEC 60529
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2, for Class I only
- Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog as defined in ASTM Standard B 117
- RoHS Compliant

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.

cd/klm

C0 - C180 C90 - C270 C25 - C205

lux

Test Report #: CESTL-2013-0070

LXD1S704E43
Mounting Height: 6m
Initial Delivered Lumens: 8822

IES Files
To obtain an IES file specific to your project, please consult www.cree-europe.com

Effective Flux (lm) - 1S (Type I Short) Distribution

LED Count (x10)	5700K Delivered Lumens	4000K Delivered Lumens	System Watts 220–240V	Total Current (A) 230V	50K Hours Projected Lumen Maintenance Factor @ 15˚C (59˚F)	L_{70} Life* (hours)
350mA @ 25˚C (77˚F)						
02	2491	2417	25	0.13	94%	>150000
03	3737	3625	35	0.17		
04	4982	4834	46	0.21		
05	6228	6042	56	0.27		
06	7474	7251	66	0.31		
08	9965	9668	89	0.42		
09	11211	10876	99	0.46		
10	12456	12084	108	0.52		
11	13702	13293	117	0.58		
12	14947	14501	126	0.62		
525mA @ 25˚C (77˚F)						
02	3587	3480	37	0.17	93%	149000
03	5381	5220	52	0.24		
04	7175	6961	70	0.30		
05	8968	8701	86	0.39		
06	10762	10441	99	0.45		
08	14350	13921	141	0.59		
09	16143	15661	157	0.65		
10	17937	17402	172	0.74		
11	19731	19142	187	0.83		
12	21524	20882	203	0.89		
700mA @ 25˚C (77˚F)						
02	4547	4411	49	0.23	91%	129000
03	6820	6616	70	0.32		
04	9093	8822	91	0.40		
05	11366	11027	112	0.52		
06	13640	13232	132	0.60		
08	18186	17643	183	0.79		
09	20459	19849	203	0.86		
10	22733	22054	224	1.02		
11	25006	24259	243	1.12		
12	27279	26465	264	1.26		

* Based on fixture operating at 25° C

Maximum Wind Area
(lateral surface exposed to wind):

LED Count (x10)	Arm Mount	Pole Top Mount
02 03	0.051 m2	0.061 m2
04 05 06	0.060 m2	0.070 m2
08 09 10 11 12	0.080 m2	0.090 m2

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