

LEDway® Road

Cree Ledway® LED Street Light - Adjustable Arm Mount

Product Description

Luminaire housing is all aluminum construction. All components are mercury free and recyclable. Sharp profile for low wind exposure. Toolless 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.

Applications: Roadway, parking lots, walkways and general area spaces.

Performance Summary

Patented NanoOptic® Product Technology

CRI: Minimum 70 CRI

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

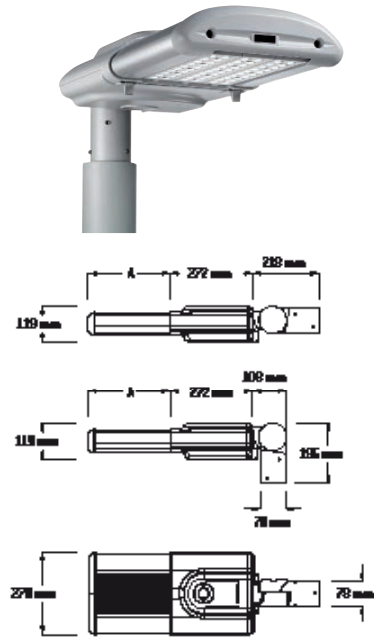
Limited Warranty†:

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	Mounting	Weight
20	"A"	158mm	7,62kg
30		158mm	7,82kg
40		270mm	8,22kg
50		270mm	10,42kg
60		270mm	10,52kg
80		352mm	14,72kg
90		352mm	14,82kg
100		352mm	14,92kg
110		352mm	15,02kg
120		352mm	15,12kg

Ordering Information

Example: LXDAC702E43GSV

L	X	D	AC	7	02	E	43	G	SV
Product	Insulation Class	Model	Optic	Mounting	LED Count (x10)	Version	CCT	Options	Color Options
LEDway	X Class 1	D Road	AC Type IV Medium ACB Type IV Medium w/ backlight shield PR Type III Medium PRB Type III Medium w/ backlight shield TS Type II Short TSB Type II Short w/ backlight shield TM Type II Medium TMB Type II Medium w/ backlight shield QV Type V Medium QVS Type V Short 1S Type I Short	7 Tenon 60mm OD	02 03 04 05 06 08 09 10 11 12	E	No code 5700K 43 4000K	E Light Control with Occupancy Sensor - Flux dimming control with occupancy sensor D# Dimming - Dimmable driver 1-10V with external controller G# Lineswitch (Bi-Level Control) - Two distinct power levels, High/Low 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 Q# Field Adjustable Output - Requires no additional wiring DL DALI - Available up to 100 LEDs in class 1 - Available up to 60 LEDs in class 2	SV Silver (Standard) BK Black BZ Bronze SB Silver Bronze WH White

† See www.cree.com/lighting/products/warranty for warranty terms

Cree Ledway® LED Street Light - Adjustable Arm Mount

Product Specifications

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
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety
- 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

Recommended LEDway® Series Lumen Maintenance Factors (LMF) ¹					
Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

Electrical Data 700mA*				
LED count	System Watts (W) 220-240V	Total Current 230V	Nominal Flux	
			5700K	4000K
20	49	0.22	4891	4745
30	70	0.31	7337	7118
40	91	0.40	9782	9490
50	112	0.50	12228	11863
60	132	0.58	14673	14235
80	183	0.79	19564	18980
90	203	0.86	22010	21353
100	224	1.02	24455	23725
110	243	1.12	26901	26098
120	264	1.26	29346	28470

* Electrical data at 25°C (77°F)

Maximum Wind Area (lateral surface exposed to wind)		
LED Count	Arm Mount	Pole Top Mount
20 30	0.051 m ²	0.061 m ²
40 50 60	0.060 m ²	0.070 m ²
80 90 100 110 120	0.080 m ²	0.090 m ²

Control options

Field Adjustable Output			
Option code	Power System Multipliers	LED Current (mA)	Lumen Multipliers
Q9 (Factory Set)	1.00	700	1
Q8	0.93	650	0.93
Q7	0.90	625	0.91
Q6	0.84	575	0.84
Q5	0.80	550	0.80
Q4	0.76	525	0.77
Q3	0.69	475	0.70
Q2	0.61	425	0.62
Q1	0.50	350	0.52

Lineswitch (Bi-Level Control)						
Option code	LED Current HIGH MODE (mA)	Watts Multipliers HIGH MODE	Lumen Multipliers HIGH MODE	LED Current LOW MODE (mA)	Watts Multipliers LOW MODE	Lumen Multipliers LOW MODE
G0	700	1.00	1.00	175	0.27	0.27
GH	525	0.76	0.77	175	0.27	0.27
GM	525	0.76	0.77	350	0.51	0.52
GL	350	0.51	0.52	175	0.27	0.27
GN	700	1.00	1.00	350	0.51	0.52
GP	700	1.00	1.00	525	0.76	0.77

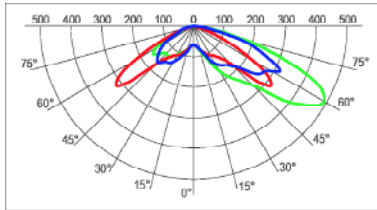
Virtual Midnight						
Option code	LED Current HIGH MODE (mA)	Watts Multipliers HIGH MODE	Lumen Multipliers HIGH MODE	LED Current LOW MODE (mA)	Watts Multipliers LOW MODE	Lumen Multipliers LOW MODE
S1	525	0.76	0.77	175	0.27	0.27
S2	525	0.76	0.77	350	0.51	0.52
S3	350	0.51	0.52	175	0.27	0.27
S4	700	1.00	1.00	350	0.51	0.52
S5	700	1.00	1.00	525	0.76	0.77
S6	700	1.00	1.00	175	0.27	0.27

Reprogrammable Virtual Midnight						
Option code	LED Current HIGH MODE (mA)	Watts Multipliers HIGH MODE	Lumen Multipliers HIGH MODE	LED Current LOW MODE (mA)	Watts Multipliers LOW MODE	Lumen Multipliers LOW MODE
T1	525	0.76	0.77	175	0.27	0.27
T2	525	0.76	0.77	350	0.51	0.52
T3	350	0.51	0.52	175	0.27	0.27
T4	700	1.00	1.00	350	0.51	0.52
T5	700	1.00	1.00	525	0.76	0.77
T6	700	1.00	1.00	175	0.27	0.27

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree-europe.com>.

AC (Type IV Medium)



cd/klm
 C0 - C180 C90 - C270 C45 - C225

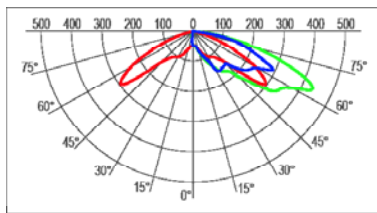
Test Report #: CESTL-2013-0028



lux
 LXDAC704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 7358

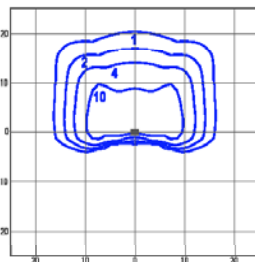
Lumen Output- AC Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	3792	3679
30	5688	5518
40	7584	7358
50	9480	9197
60	11376	11036
80	15168	14715
90	17064	16555
100	18960	18394
110	20856	20233
120	22752	22073

ACB (Type IV Medium w/BLS)



cd/klm
 C0 - C180 C90 - C270 C55 - C235

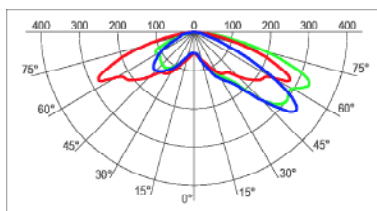
Test Report #: 77233



lux
 LXDACB702E43
 Mounting Height: 6m
 Initial Delivered Lumens: 3005

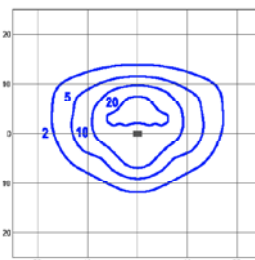
Lumen Output- ACB Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	3097	3005
30	4646	4508
40	6195	6010
50	7744	7513
60	9292	9015
80	12390	12020
90	13939	13523
100	15487	15025
110	17036	16528
120	18585	18030

PR (Type III Medium)



cd/klm
 C0 - C180 C90 - C270 C35 - C215

Test Report #: CESTL-2013-0068



lux
 LX DPR704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 6953

Lumen Output- PR Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	3584	3477
30	5375	5215
40	7167	6953
50	8959	8692
60	10751	10430
80	14335	13907
90	16126	15645
100	17918	17383
110	19710	19122
120	21502	20860

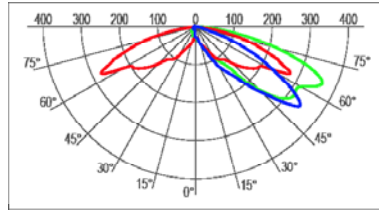
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

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Photometry

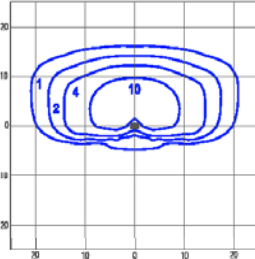
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PRB (Type III Medium w/BLS)



cd/klm
 C0 - C180 C90 - C270 C35 - C215

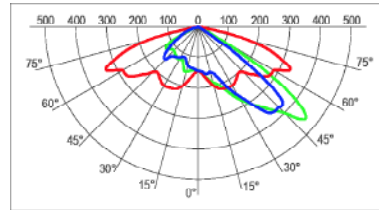
Test Report #: 77235



lux
 LXDPRB702E43
 Mounting Height: 6m
 Initial Delivered Lumens: 2666

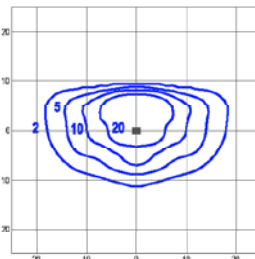
Lumen Output- PRB Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	2748	2666
30	4122	3999
40	5496	5331
50	6869	6664
60	8243	7997
80	10991	10663
90	12365	11996
100	13739	13329
110	15113	14662
120	16487	15994

TS (Type II Short)



cd/klm
 C0 - C180 C90 - C270 C55 - C235

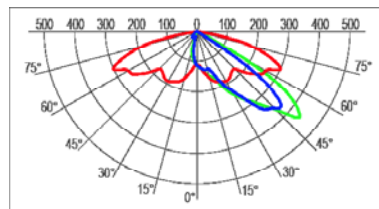
Test Report #: CESTL-2013-0072



lux
 LXDTS704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 8058

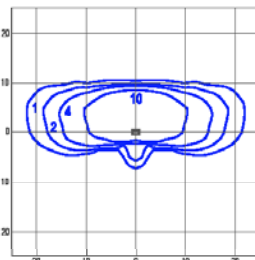
Lumen Output- TS Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	4153	4029
30	6229	6043
40	8306	8058
50	10382	10072
60	12459	12087
80	16612	16116
90	18688	18130
100	20765	20145
110	22841	22159
120	24918	24174

TSB (Type II Short w/BLS)



cd/klm
 C0 - C180 C90 - C270 C50 - C235

Test Report #: 77234



lux
 LXDTSB704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 6072

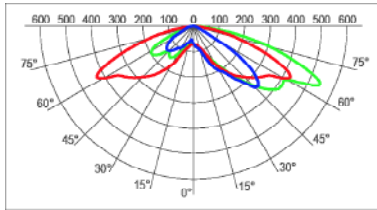
Lumen Output- TSB Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	3129	3036
30	4694	4554
40	6259	6072
50	7823	7590
60	9388	9108
80	12517	12143
90	14082	13661
100	15646	15179
110	17211	16697
120	18776	18215

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

Photometry

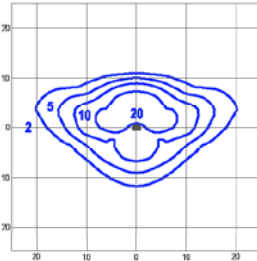
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TM (Type II Medium)



cd/klm
 C0 - C180 C90 - C270 C15 - C195

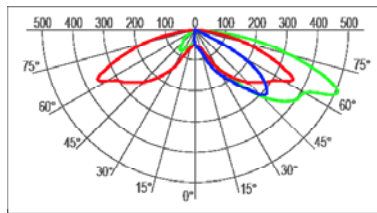
Test Report #: CESTL-2013-0025



lux
 LXDTM704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 7137

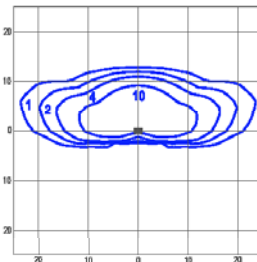
Lumen Output- TM Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	3679	3569
30	5518	5353
40	7357	7137
50	9196	8922
60	11036	10706
80	14714	14275
90	16553	16059
100	18393	17844
110	20232	19628
120	22071	21412

TMB (Type II Medium w/BLS)



cd/klm
 C0 - C180 C90 - C270 C15 - C195

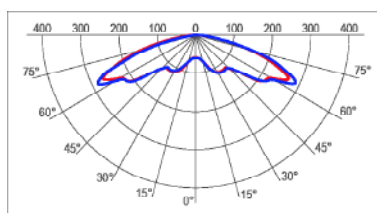
Test Report #: 77236



lux
 LXDTMB706E43
 Mounting Height: 6m
 Initial Delivered Lumens: 8401

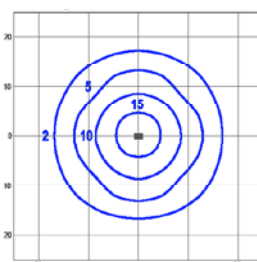
Lumen Output- TMB Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	2887	2800
30	4330	4201
40	5773	5601
50	7217	7001
60	8660	8401
80	11547	11202
90	12990	12602
100	14433	14002
110	15877	15403
120	17320	16803

QV (Type V Medium)



cd/klm
 C0 - C180 C90 - C270

Test Report #: CESTL-2013-0019



lux
 LXDQV704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 7755

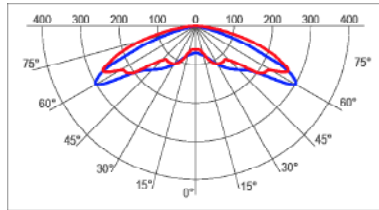
Lumen Output- QV Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	3997	3878
30	5995	5816
40	7994	7755
50	9992	9694
60	11991	11633
80	15988	15510
90	17986	17449
100	19985	19388
110	21983	21327
120	23982	23266

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.

Photometry

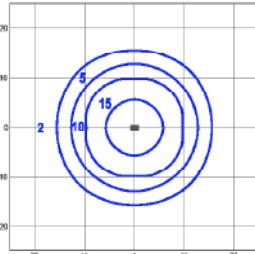
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QVS (Type V Short)



cd/klm
 C0 - C180 C90 - C270

Test Report #: 68092

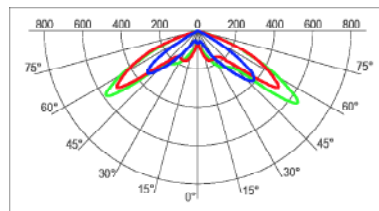


lux

LXDQVS704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 9083

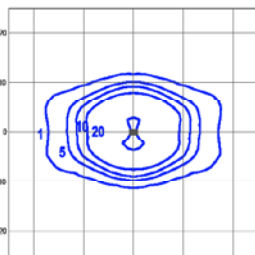
Lumen Output- QVS Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	4681	4542
30	7022	6813
40	9363	9083
50	11704	11354
60	14044	13625
80	18726	18167
90	21067	20438
100	23407	22709
110	25748	24979
120	28089	27250

1S (Type I Short)



cd/klm
 C0 - C180 C90 - C270 C25 - C205

Test Report #: CESTL-2013-0070



lux

LXD1S704E43
 Mounting Height: 6m
 Initial Delivered Lumens: 8822

Lumen Output- 1S Distribution		
LED Count	Initial Delivered Lumens*	
	700mA	
	5700K	4000K
20	4547	4411
30	6820	6616
40	9093	8822
50	11366	11027
60	13640	13232
80	18186	17643
90	20459	19849
100	22733	22054
110	25006	24259
120	27279	26465

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens.