

Cree Urban High Output Series

CONTEMPORARY - LED Lantern

Product Description

A variety of LED decorative luminaires that range from a classic, elegant design to a more essential and modern one, conceived for urban decor lighting projects. Each lantern model has a particular style optimised for day-time and nightscape appearance, featuring an easy installation mounting system. Capable of saving more than 70 percent energy compared to traditional source technologies, the Cree Urban Series luminaires also provide improved lighting quality that contributes to creating a safe and inviting site.

Applications: historic urban settings, plazas and parks, residential roadways and walkways.

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Initial Delivered Lumens: up to 8100lm

CRI: Minimum 70 CRI

CCT: 3000K or 4000K or 5700K

Lifetime color consistency: 4SDM

Limited Warranty*: 5 years on luminaire



Ordering Information

Example: UCN-E-F-2LG-B-30K-+24-BK-FX-S-01

UCN	-	F	-	2LG	-	B	-	30K	-	+	-	24	-	FX	-	S	-	01
Product	Version	Mounting	Optic	Input Power Designator	CCT	Insulation Class	Voltage	Color	Options	Variant	Cable length							
UCN	E	F Post-top	2LG Type II long 275 Type II short 0.75 210 Type II short 1,0 2SH Type II short 3SH Type III short 3ME Type III medium 4ME Type IV medium 5ME Type V medium 5SH Type V short	B 63W	30K 3000K 40K 4000K 57K 5700K	+ Class 1 ^ Class 2	24 220-240V	BK Black CI Classic Ivory HB Heritage Brown BG Brutalist Grey LG Landes- cape Green	FX Fixed Output Q Field Adjustable Output DM Dimming 1-10V DQ Field Adjustable Dimming Y-Z Virtual Midnight Field Programmable DL DALI DY DynaDimmer CL Constant Lumen Output	S Standard U 10kV F** Fuse	01 Exit cable 50cm (w/connector)							

** Fuse option available with Standard or 10kV configurations (specify SF or UF)

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



www.cree-europe.com

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Product Specifications

LED lantern featuring a contemporary round design. Powered by Cree technology and featuring the NanoOptic® Precision Delivery Grid™ optic system.

CONSTRUCTION & MATERIALS

- Die cast aluminum housing
- 50cm cable with quick-connector factory supplied
- Mounting system: Post-top
- Standard finish: Black, Classic Ivory, Heritage Brown, Brutalist Grey, Landscape Green
- High resistance powder coating with increased anti-ageing and anti-corrosion performance

ELECTRICAL SYSTEM

- **Input Voltage:** 220-240V or 50/60Hz
- **Power Factor:** > 0.98 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Up to 10kV surge immunity according to EN 61000-4-5 and EN 61547
- Available with following controls & dimming: Fixed output / Field adjustable / Virtual midnight reprogrammable / 1-10V / DALI / CLO / Dynadimmer

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE listed
- CB certificate
- Risk group exempt in accordance with Standard EN 62471 for photobiological safety
- Enclosure rated IP66 per IEC 60529
- RoHS compliant
- UMSUG coding

Electrical Data*			
Input Power Designator	System Watts (W) 220-240V	Total Current	Power Factor
		@230V, 50Hz	
B	63	0,28	0,98

Recommended URBAN Series Input B- 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
-40°C**	1.10	1.06	1.03	1.01	0.98
-30°C**	1.09	1.05	1.02	1.00	0.97
-20°C**	1.06	1.03	1.00	0.98	0.95
-10°C**	1.05	1.02	0.99	0.97	0.94
0**	1.04	1.01	0.98	0.96	0.93
5°C**	1.03	1.00	0.97	0.95	0.92
10°C**	1.02	0.99	0.96	0.94	0.91
15°C	1.01	0.98	0.95	0.92	0.90
20°C	1.01	0.97	0.94	0.91	0.88
25°C	1.00	0.96	0.92	0.89	0.85
30°C	0.99	0.94	0.90	0.86	0.76
40°C	0.98	0.92	0.87	0.83	0.78

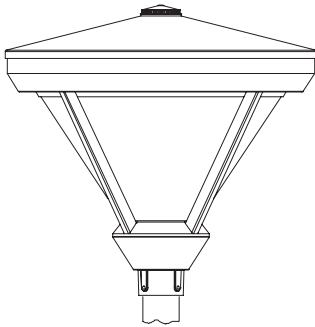
¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

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)

Mounting Systems

F
POST-TOP



Weight: 10.6kg

Control options

Field Adjustable Output - Input Power B								
Setting	System Watts W	Lumen Multipliers	Nominal flux (lm)					
			Asymmetric			Symmetric		
			5700K	4000K	3000K	5700K	4000K	3000K
Q9	63	1,00	8828	8774	8335	7855	7487	6137
Q8	58	0,95	8363	8312	7896	7442	7093	5814
Q7	56	0,92	8162	8112	7706	7263	6922	5674
Q6	52	0,86	7600	7554	7175	6763	6446	5283
Q5	50	0,84	7372	7328	6961	6560	6253	5125
Q4	48	0,80	7092	7049	6696	6311	6015	4930
Q3	43	0,73	6478	6438	6116	5764	5494	4503
Q2	39	0,67	5937	5901	5605	5283	5035	4127
Q1	33	0,57	5065	5034	4782	4507	4296	3521
Q20	20	0,34	2999	2981	2831	2668	2543	2085

Virtual Midnight Y/Z - Input Power B														
Setting	System Watts W (High Mode)	Nominal flux (lm)						System Watts W (Low Mode)	Nominal flux (lm)					
		Asymmetric			Symmetric				Asymmetric			Symmetric		
		5700K	4000K	3000K	5700K	4000K	3000K		5700K	4000K	3000K	5700K	4000K	3000K
Y1	63	8828	8774	8335	7855	7487	6137	47	7009	6967	6618	6237	5945	4873
Y2	63	8828	8774	8335	7855	7487	6137	32	4835	4806	4565	4303	4102	3362
Y3	63	8828	8774	8335	7855	7487	6137	16	2310	2296	2181	2080	1983	1625
Y4	47	7009	6967	6618	6237	5945	4873	32	4835	4806	4565	4303	4102	3362
Y5	47	7009	6967	6618	6237	5945	4873	16	2310	2296	2181	2080	1983	1625
Y6	32	4835	4806	4565	4303	4102	3362	16	2310	2296	2181	2080	1983	1625
Z1	55	7976	7927	7530	7097	6765	5545	43	6478	6438	6116	5764	5494	4503
Z2	55	7976	7927	7530	7097	6765	5545	35	5296	5264	5000	4713	4492	3682
Z3	55	7976	7927	7530	7097	6765	5545	22	3381	3361	3193	3011	2870	2352
Z4	43	6478	6438	6116	5764	5494	4503	35	5296	5264	5000	4713	4492	3682
Z5	43	6478	6438	6116	5764	5494	4503	22	3381	3361	3193	3011	2870	2352
Z6	35	5296	5264	5000	4713	4492	3682	22	3381	3361	3193	3011	2870	2352

Dynadimmer - Input Power B																									
Setting	System Watts W (High Mode)	Nominal flux (lm)						System Watts W (Low Mode)	Nominal flux (lm)						System Watts W (Low Mode)	Nominal flux (lm)									
		Asymmetric			Symmetric				Asymmetric			Symmetric				Asymmetric			Symmetric						
		5700K	4000K	3000K	5700K	4000K	3000K		5700K	4000K	3000K	5700K	4000K	3000K		5700K	4000K	3000K	5700K	4000K	3000K				
DY7**	63	8828	8774	8335	7855	7487	6137												30	4606	4578	4348	4099	3907	3203
DY6**	57	8278	8228	7816	7366	7021	5755												28	4300	4273	4059	3827	3648	2990
DY5**	50	7372	7328	6961	6560	6253	5125												25	3841	3817	3626	3419	3259	2671
DY4**	44	6596	6556	6228	5869	5594	4585												22	3381	3361	3193	3011	2870	2352
DY3**	39	5937	5901	5605	5283	5035	4127												19	2846	2828	2687	2535	2416	1980
DY2**	35	5372	5339	5072	4780	4556	3734												19	2846	2828	2687	2535	2416	1980
DY1**	32	4912	4882	4637	4371	4166	3415												19	2846	2828	2687	2535	2416	1980
DY14*	63	8828	8774	8335	7855	7487	6137	48	7092	7049	6696	6311	6015	4930					30	4606	4578	4348	4099	3907	3203
DY13*	57	8278	8228	7816	7366	7021	5755	44	6596	6556	6228	5869	5594	4585					28	4300	4273	4059	3827	3648	2990
DY12*	50	7372	7328	6961	6560	6253	5125	39	5937	5901	5605	5283	5035	4127					25	3841	3817	3626	3419	3259	2671
DY11*	44	6596	6556	6228	5869	5594	4585	32	4912	4882	4637	4371	4166	3415					22	3381	3361	3193	3011	2870	2352
DY10*	39	5937	5901	5605	5283	5035	4127	30	4606	4578	4348	4099	3907	3203					19	2846	2828	2687	2535	2416	1980
DY9*	35	5372	5339	5072	4780	4556	3734	28	4300	4273	4059	3827	3648	2990					19	2846	2828	2687	2535	2416	1980
DY8*	32	4912	4882	4637	4371	4166	3415	25	3841	3817	3626	3419	3259	2671					19	2846	2828	2687	2535	2416	1980
DY16**	28	4300	4273	4059	3827	3648	2990												19	2846	2828	2687	2535	2416	1980
DY15**	25	3841	3817	3626	3419	3259	2671												19	2846	2828	2687	2535	2416	1980

* Dimming -> on-h22 100%; h22-h24 75%; h24-h6 50%; h6-off 100%

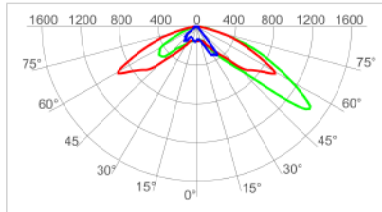
** Dimming -> on-h22 100%; h22-h24 50%; h6-off 100%

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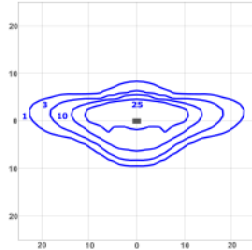
Photometry

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>.

2LG - Type II Long



cd/klm
 C0 - C180 C90 - C270 C10 - C190



lux

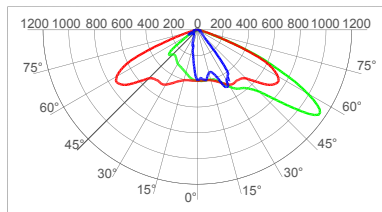
Test Report #: PL11703-010

UCN-E-F-2LG-B-40K
 Mounting Height: 6m

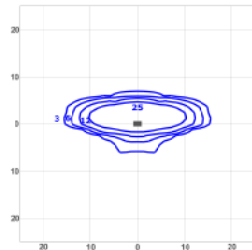
Lumen Output - 2LG (Type II Long)			
Input Power Designator	5700K	4000K	3000K
	B	7851	7803

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

275 - Type II Short 0.75



cd/klm
 C0 - C180 C90 - C270 C12.5 - C197.5



lux

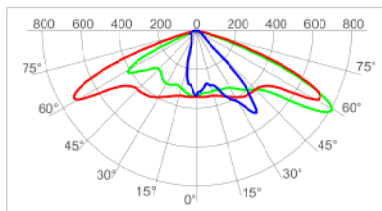
Test Report #: PL11703-010

UCN-E-F-275-B-40K
 Mounting Height: 6m

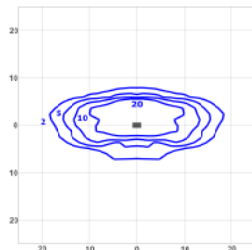
Lumen Output - 275 (Type II Short 0.75)			
Input Power Designator	5700K	4000K	3000K
	B	8049	8000

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

210 - Type II Short 1.0



cd/klm
 C0 - C180 C90 - C270 C17.5 - C197.5



lux

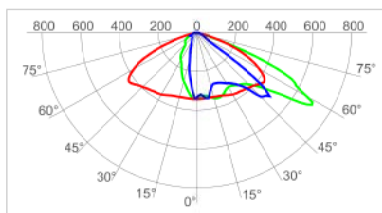
Test Report #: PL11703-010

UCN-E-F-210-B-40K
 Mounting Height: 6m

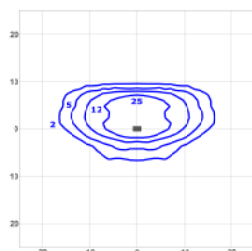
Lumen Output - 210 (Type II Short 1.0)			
Input Power Designator	5700K	4000K	3000K
	B	8127	8077

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

2SH - Type II Short



cd/klm
 C0 - C180 C90 - C270 C30 - C210



lux

Test Report #: PL11703-029

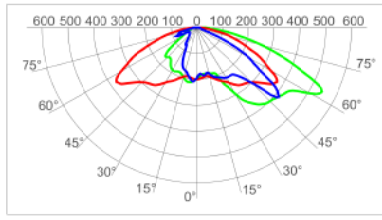
UCN-E-F-2SH-B-40K
 Mounting Height: 6m

Lumen Output - 2SH (Type II Short)			
Input Power Designator	5700K	4000K	3000K
	B	8182	8132

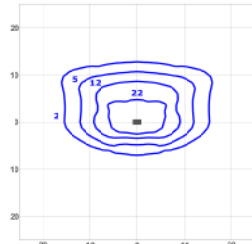
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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3SH - Type III Short



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



lux

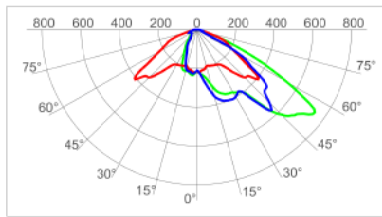
Test Report #: PL11703-030

UCN-E-F-3SH-B-40K
 Mounting Height: 6m

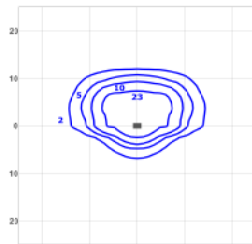
Lumen Output - 3SH (Type III Short)			
Input Power Designator	5700K	4000K	3000K
	B	7475	7429

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

3ME - Type III Medium



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



lux

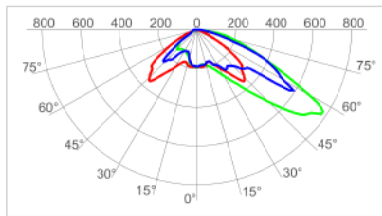
Test Report #: PL11703-031

UCN-E-F-3ME-B-40K
 Mounting Height: 6m

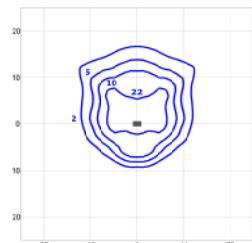
Lumen Output - 3ME (Type III Medium)			
Input Power Designator	5700K	4000K	3000K
	B	7857	7809

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

4ME - Type IV Medium



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



lux

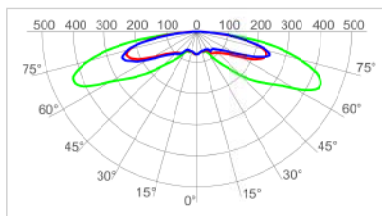
Test Report #: PL11703-032

UCN-E-F-4ME-B-40K
 Mounting Height: 6m

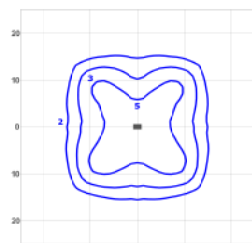
Lumen Output - 4ME (Type IV Medium)			
Input Power Designator	5700K	4000K	3000K
	B	8139	8090

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

5ME - Type V Medium



cd/klm
 — C0 - C180 — C90 - C270 — C135 - C315



lux

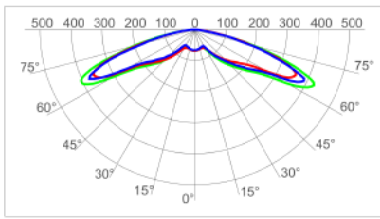
Test Report #: PL07327-001

UCN-E-F-5ME-B-40K
 Mounting Height: 6m

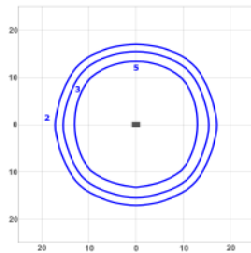
Lumen Output - 5ME (Type V Medium)			
Input Power Designator	5700K	4000K	3000K
	B	6628	6317

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

5SH - Type V Medium



cd/km
 — C0 - C180 — C90 - C270 — C45 - C225



lux
 UCN-E-F-5SH-B-40K
 Mounting Height: 6m

Test Report #: PL07330-001

Lumen Output - 5SH (Type V Medium)			
Input Power Designator	5700K	4000K	3000K
		Initial Delivered Lumens*	Initial Delivered Lumens*
B	7564	7210	5910

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