

# Cree RKT Series

Retrofit kit for historical lantern

## Product Description

Cree technology unit that utilizes a stand-alone light engine and a universal mounting base (aluminium plate) that can be mounted in existing installations, lanterns or decorative post-top luminaires. Powered by Cree technology and featuring the NanoOptic Precision Delivery Grid optic system, this Cree traditional post-top upgrade kit allows owners to seamlessly transform their existing inefficient post-top luminaires with poor optical control into energy-efficient, low-maintenance LED luminaires. The easy-to-install upgrade kit uses most of the existing fixture, resulting in little waste while maintaining a consistent day-form appearance.

## Performance Summary

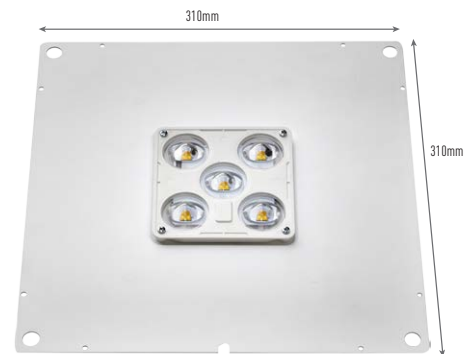
NanoOptic® Precision Delivery Grid™ optic

**CRI:** Minimum 70 CRI

**CCT:** 3000K or 4000K or 5700K

**Limited Warranty\*:** 5 years on luminaire

**LED Lumen Maintenance<sup>1</sup>:** > 200000h<sup>2</sup> (L80F20)



Ordering Information									
Example: RKTC2LGA30K+24WHWM									
RKT	C	2LG	A	30K	+	24	WH	WM	
Product	Version	Optic	Input Power Designator	CCT	Insulation Class	Voltage	Color	Options	
RKT	C	2LG	0 38W VM 38/27W*	30K	+	24	WH	WM	Virtual Midnight
		Type II long	1 43W VM 43/30W*	3000K	Class 1	220-240V	White		- Field programmable
		275	2 45W VM 45/32W*	40K	^				(includes 1-10V dimming)
		(Type II short 0.75)	3 27W VM 27/19W*	4000K	Class 2				
		210	4 29W VM 29/20W*	57K					
		Type II short 1,0	5 34W VM 34/24W*	5700K					
		2SH	6 38W VM 38/19W*						
		Type II short	7 43W VM 43/22W*						
		3SH	8 45W VM 45/23W*						
		Type III short	9 19W Fixed						
		4ME							
		Type IV medium	A 27W Fixed						
		5ME	B 29W Fixed						
		Type V Medium	C 34W Fixed						
		5SH	D 38W Fixed						
		Type V Short	E 43W Fixed						
			F 45W Fixed						

<sup>1</sup> Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

<sup>2</sup> 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)

\* See [www.cree.com/lighting/products/warranty](http://www.cree.com/lighting/products/warranty) for warranty terms

\*Time setting 24.00 - 06.00



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### Product Specifications

A Cree product that can be used as a replacement of old HID lamps in historical lanterns making them IP65, offering LED technology benefits together with a stand-alone control system.

#### CONSTRUCTION & MATERIALS

- Retrofit mounting system
- Aluminium mounting plate formed to accommodate LED board and optics that guarantees an optimized thermal management, to ensure long life and yield
- Connection box and driver applied directly on aluminium plate
- Cable gland for supply cord inlet
- Standard color: White
- Weight: 2.0kg

#### ELECTRICAL SYSTEM

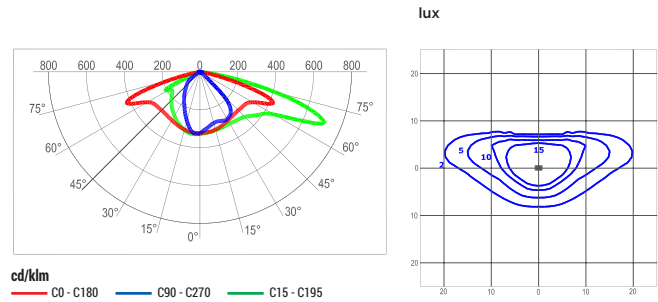
- **Input Voltage:** 220-240V or 50/60Hz
- **Power Factor:** > 0.95 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Field Adjustable Output option - integrated
- Stand-alone Virtual Midnight field programmable – integrated
- 6 kV surge protection per EN 61000-4-5

#### REGULATORY & VOLUNTARY QUALIFICATIONS

- CE listed
- Risk group exempt in accordance with Standard EN 62471 for photobiological safety
- Enclosure rated IP65 per IEC 60529
- Covered by IEC 62031 as a «Built-in self-ballasted LED module»
- RoHS compliant

### Photometry

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



Test Report #: PL04731-002

RKTC210F40K+24WH  
**Mounting Height:** 6m  
**Initial Delivered Lumens:** 4897

Electrical Data*		
Input Power Designator	System Watts @ 230V	Total Current (A)
0	38W Virtual Midnight 38/27W	0.17
1	43W Virtual Midnight 43/30W	0.19
2	45W Virtual Midnight 45/32W	0.20
3	27W Virtual Midnight 27/19W	0.13
4	29W Virtual Midnight 29/20W	0.14
5	34W Virtual Midnight 34/24W	0.15
6	38W Virtual Midnight 38/19W	0.17
7	43W Virtual Midnight 43/22W	0.19
8	45W Virtual Midnight 45/23W	0.20
9	19W Field Adjustable Output	0.10
A	27W Field Adjustable Output	0.13
B	29W Field Adjustable Output	0.14
C	34W Field Adjustable Output	0.15
D	38W Field Adjustable Output	0.17
E	43W Field Adjustable Output	0.19
F	45W Field Adjustable Output	0.20

\* Electrical data at 25°C (77°F)