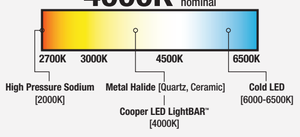
LIGHTBAR™ TECHNOLOGY

ENERGY SAVINGS + ENVIRONMENTAL STEWARDSHIP
The simplest and most effective way to reduce a lighting fixture's impact on the environment is to minimize its energy consumption. By incorporating Cooper Lighting's patented LED LightBAR™ technology, RC LED Cobrahead provides energy savings between 30-75% over standard HID sources.

LONG LIFE
With a 50,000+ hour rated life at 70% lumen maintenance, RC LED Cobrahead operates three [3] times longer than traditional High Pressure Sodium sources.

SCALABLE ILLUMINATION

WARM WHITE COLOR



Each patented LED LightBAR™ optic renders the entirety of the pattern. As the number of LightBAR™ elements increase so does the application illuminance, allowing lumen and energy output to be scaled and optimized per application. Obtrusive spill light and glare is replaced by uniform, application specific illumination.

Lighting Designers, Architects and Specifying Engineers have long preferred light sources which provide a balanced spectral power distribution and warm white light. Typical LED solutions standardize on a cold blue 6000-6500K correlated color temperature [CCT] to maximize lumen output. RC LED Cobrahead provides warm white light at a standard 4000K CCT with no sacrifice in lumen output.

AccuLED Optics™

SUPERIOR EFFICIENCY + CONTROL
With efficiencies as high as 95%, patented AccuLED Optics™ systems are as much as 30% more efficient than traditional HID optical systems. Available in thirteen [13] beam distributions, AccuLED Optics™ systems provide the flexibility and performance required for any outdoor application.

RC LED COBRAHEAD

ORDERING INFORMATION

SAMPLE NUMBER: LDRC-T3S-B04-E

LAMP TYPE
LD=Solid State Light Emitting Diodes [LED]

SERIES
RC=Roadway Small Cutoff Cobrahead

DISTRIBUTION
T2=Type II
T3=Type III
T3S=Type III Short
T4=Type IV
5MQ=Type V Square Medium
5WQ=Type V Square Wide
5XQ=Type V Square Extra Wide
RW=Rectangular Wide
SL2=Type II w/Spill Control
SL3=Type III w/Spill Control
SL4=Type IV w/Spill Control
SLL=90° Spill Light Eliminator Left
SLR=90° Spill Light Eliminator Right

NUMBER OF LIGHTBARS [1,2]
B01=[1] 21 LED LightBAR
B02=[2] 21 LED LightBARs
B03=[3] 21 LED LightBARs
B04=[4] 21 LED LightBARs
C01=[1] 7 LED LightBAR
C02=[2] 7 LED LightBARs
C03=[3] 7 LED LightBARs
C04=[4] 7 LED LightBARs

VOLTAGE
E=Electronic [120-277V]
347=347V
480=480V

OPTIONS + ACCESSORIES [see below]

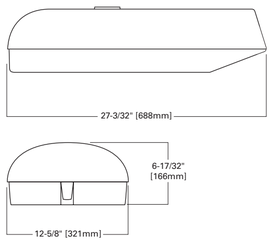
OPTIONS + ACCESSORIES [Must be listed in the order shown and separated by a dash]

OPTIONS [3]
K=Black
BZ=Bronze
K=Level Indicator
HA=50°C High Ambient Temperature Rating [4]
L90=Optics Rotated Left 90°
R90=Optics Rotated Right 90°
PER=NEMA Twistlock Photocontrol Receptacle
2L=Bi-Level Switching Capability [5]
7060=70 CRI / 6000K CCT [6]
8030=80 CRI / 3000K CCT [6]
LCF=LightBAR Cover Plate Matches Housing Finish
BBLEDCLD=UL924 LED Cold Battery Back-up [Specify Voltage]

ACCESSORIES [7]
OA/RA1013=Shorting Cap
OA/RA1014=Photoelectric Control, 120 Volt NEMA Type
OA/RA1016=Photoelectric Control, 105-285V NEMA Type
OA/RA1027=Photoelectric Control, 480V NEMA Type
OA/RA1201=Photoelectric Control, 347V NEMA Type
MA1252=10kV Circuit Module Replacement

NOTES: 1 Standard 4000K CCT and 70 CRI nominal. **2** 21 LED LightBAR powered at 350mA, 7 LED LightBAR powered at 1A. **3** Add as suffix. **4** Not available with BBLEDCLD option. **5** Not available with 347V or 480V. **6** Consult factory for lead time and lumen multiplier. **7** Order separately. **8** Specifications and dimensions subject to change without notice.

DIMENSIONS



CERTIFICATIONS

UL and cUL Listed
3G Vibration Rated
ISO 9001
IP66 LightBARs
ARRA Compliant

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
50°C [Optional] Ambient Temperature Rating
-30°C Minimum Temperature

AMBIENT DATA

Ambient Temperature	Lumen Multiplier
10°C	1.04
15°C	1.03
25°C	1.00
40°C	0.96
50°C	0.92

EPA

Effective Projected Area [sq. ft]	
1-6 Bars	0.87

SHIPPING DATA

Approximate Net Weight	
1-6 Bars	35 [15.91 kgs.]

25% PCRF

ADH111430 Printed in USA

COOPER Lighting

LUMARK

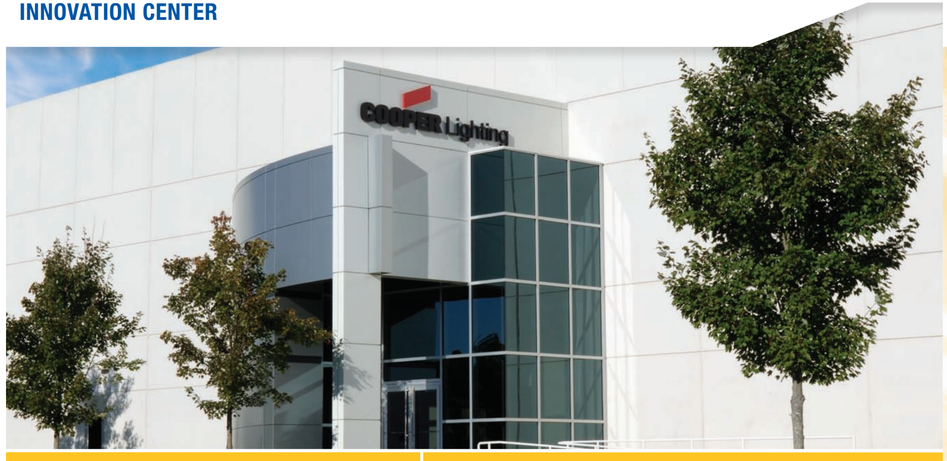
SustainabLEDesign™

RC LED Cobrahead

Roadway/Site Luminaire

COOPER Lighting

INNOVATION CENTER



INNOVATION IN ACTION

The Cooper name has stood for innovation, service and expertise for over 175 years. Today, Cooper Lighting's LED Innovation Center is home to the design, validation and manufacturing of proprietary LED technologies. Through changing times and technologies, Cooper answers the call to provide relevant, industry-leading solutions to evolving market needs.

BEST-IN-CLASS DESIGN AND RELIABILITY

Precision design practices and rigorous reliability testing result in dependable luminaries that thrive in outdoor environments. RC LED Cobrahead is rated for operation in -30°C to 40°C ambient environments [for 50°C ambient, specify HA option], comes equipped with 10kV transient surge protection and is backed by a five-year warranty from a world class manufacturer.

FEATURES AND BENEFITS

FINISH
Components finished in a standard grey 5-stage Super TGIC polyester powder coat paint. Black, bronze, RAL and custom color matches available.

CONSTRUCTION
Heavy-duty cast aluminum housing and removable door 3G vibration rated to ensure strength of construction and longevity in application. Die-cast aluminum door features integral hinges for tool-less maintenance access.

ALUMINUM HEAT SINKS
Thermal management incorporates both conduction and natural convection to transfer heat rapidly away from the LED source and retain optimal efficiency and light output.

ELECTRICAL
LED driver hard mounts to die-cast aluminum back casting for optimal heat sinking and operational efficiency, 120-277V. Standard three-position tunnel type compression terminal block. RC LED Cobrahead is shipped standard with a replaceable circuit module [MA1253] incorporating internal fusing and MOV's designed to survive a 10kV BIL surge test.

ACCULED OPTICS™
AccuLED Optics™ provide shaped distributions and scalability to meet exacting application requirements. RC LED Cobrahead is offered in 1-4 LightBAR™ configurations with a choice of thirteen [13] high efficiency optical systems including a family of spill light eliminator optics [SL] to drastically reduce spill light behind the luminaire. Optional factory-set optic rotation [L90 or R90] allows uniform product orientation on the site independent of optical orientation. LightBARs feature an IP66 enclosure rating.

MOUNTING
Two-bolt/one bracket slipfitter with cast-in pipe stop and leveling steps. Fixed-in-place birdguard seals around 1-1/4" or 2" mounting arms.

POWER AND LUMENS BY NUMBER OF LIGHTBARS

Number of LightBARs	DISTRIBUTION												
	Power [Watts]	T2	T3	T3S	T4	SL2	SL3	SL4	5MQ	5WQ	5XQ	RW	SLR/SLL
	7 LED LIGHTBAR												
C01	27	1,886	1,858	1,796	1,842	1,869	1,895	1,842	1,959	1,929	1,965	1,866	1,742
C02	54	3,743	3,687	3,564	3,655	3,708	3,761	3,655	3,886	3,827	3,899	3,702	3,457
C03	77	5,514	5,431	5,251	5,385	5,463	5,540	5,384	5,725	5,638	5,744	5,454	5,093
C04	101	7,334	7,224	6,984	7,163	7,266	7,369	7,161	7,615	7,499	7,640	7,254	6,774
	21 LED LIGHTBAR												
B01	27	2,320	2,285	2,210	2,266	2,299	2,331	2,266	2,409	2,373	2,417	2,295	2,143
B02	51	4,604	4,534	4,384	4,496	4,561	4,625	4,495	4,780	4,707	4,796	4,554	4,252
B03	73	6,782	6,680	6,459	6,624	6,719	6,814	6,622	7,042	6,935	7,065	6,708	6,264
B04	95	9,021	8,885	8,591	8,810	8,938	9,064	8,808	9,366	9,224	9,397	8,923	8,332

COOPER LIGHTING'S PATENT PENDING LED LIGHTBARS BRING NEW MEANING TO THE WORD SCALABILITY