

CLED4



FEATURES

The CLED4 is the latest generation of CHM Lighting's high mast luminaire family, combining industry-leading optical performance, flexible lumen packages, and a robust modular design into a single platform. The CLED4 features CHM's patented rotatable heat sink technology, enabling precise orientation of asymmetric optics for superior lighting control. Designed for reliability, ease of installation, and long-term performance, the CLED4 is fully BABA compliant across all package offerings.

- » BABA Compliant
- » Patented 360 degree optic adjustability
- » Scalable Output
- » Standard 0-10V Dimming
- » Silicon Optic Technology
- » Tool-less Driver Housing Access
- » IP66 Construction of Optical and Driver Assembly
- » Zero Up light Rating (U0)
- » 20kA/10kV Surge Protection
- » 3G Vibration Rating (ANSI C136.31-2001)
- » Designed and Manufactured in Fort Worth, Texas



ORDERING GUIDE

PRODUCT		OUTPUT ³		FINISH		CCT/CRI		OPTICS		INPUT VOLTAGE		RECEPTACLE		FUSING	
CLED4															
CLED4	CONDOR LED 4	02C	02C	<u>Standard Configuration</u>				T2	TYPE II	B	208 - 277V	BLANK	NONE	BLANK	NONE
		03C	03C	GY	GREY	4070	4000K 70CRI	T3	TYPE III	C	347 - 480V				
		04C	04C					T4	TYPE IV	<u>Custom Configuration*</u>					
		05C	05C					5W	TYPE V WIDE	A	120V				
		06C	06C	<u>Custom Configuration*</u>											
		07C	07C												
		08C	08C	DB	DARK BRONZE	3070	3000K 70CRI								
		09C	09C	CC	CUSTOM	5070	5000K 70CRI								

*Additional costs and lead times may apply. Contact factory for more information

1. Selection requires one of the following accessories: PH, SC, IWC
2. Output selection impacts product dimensions; see page 3 for more details

THIS PRODUCT IS COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS:
9,677,754 / 9,903,581 / 10,234,128 / 10,571,112

ACCESSORIES

PH	PHOTOCELL	S180CLED4	CLED4 180° BACKLIGHT SHIELD
SC	SHORTING CAP		
IWC	INTELLIGENT WIRELESS CONTROLLER		

PERFORMANCE DATA								
CHIP SET	WATTAGE (W)	OPTICS	3000K		4000K		5000K	
			FLUX (Lm)	EFFICACY (Lm/W)	FLUX (Lm)	EFFICACY (Lm/W)	FLUX (Lm)	EFFICACY (Lm/W)
02C	182	T2	25047	138	26464	145	25521	140
	182	T3	25482	140	26924	148	25964	143
	182	T4	25193	138	26618	146	25669	141
	182	5W	25759	142	27216	150	26246	144
03C	273	T2	37571	138	39697	145	38282	140
	273	T3	38222	140	40385	148	38946	143
	273	T4	37789	138	39927	146	38504	141
	273	5W	38638	142	40824	150	39369	144
04C	364	T2	50094	138	52929	145	51042	140
	364	T3	50963	140	53847	148	51928	143
	364	T4	50385	138	53236	146	51339	141
	364	5W	51517	142	54433	150	52493	144
05C	455	T2	62618	138	66161	145	63803	140
	455	T3	63704	140	67309	148	64910	143
	455	T4	62981	138	66545	146	64174	141
	455	5W	64397	142	68041	150	65616	144
06C	546	T2	75141	138	79393	145	76564	140
	546	T3	76445	140	80771	148	77892	143
	546	T4	75578	138	79855	146	77008	141
	546	5W	77276	142	81649	150	78739	144
07C	637	T2	87665	138	92626	145	89324	140
	637	T3	89185	140	94232	148	90874	143
	637	T4	88174	138	93164	146	89843	141
	637	5W	90155	142	95257	150	91862	144
08C	728	T2	100188	138	105858	145	102085	140
	728	T3	101926	140	107694	148	103856	143
	728	T4	100770	138	106473	146	102678	141
	728	5W	103035	142	108865	150	104985	144
09C	819	T2	112712	138	119090	145	114846	140
	819	T3	114667	140	121156	148	116838	143
	819	T4	113367	138	119782	146	115513	141
	819	5W	115914	142	122473	150	118108	144

LUMEN MAINTENANCE			
AT 50,000 HRS	AT 100,000 HRS	L70 AT 25°C (CALCULATED)	L70 AT 25°C (REPORTED)
87%	75%	125,000 HRS	>66,000 HRS

RATINGS NOTES
1. Published lumen data guaranteed within the output tolerance of EnergyStar requirements
2. Weight will vary based upon selected options. Tolerance on published weight is +/-10%

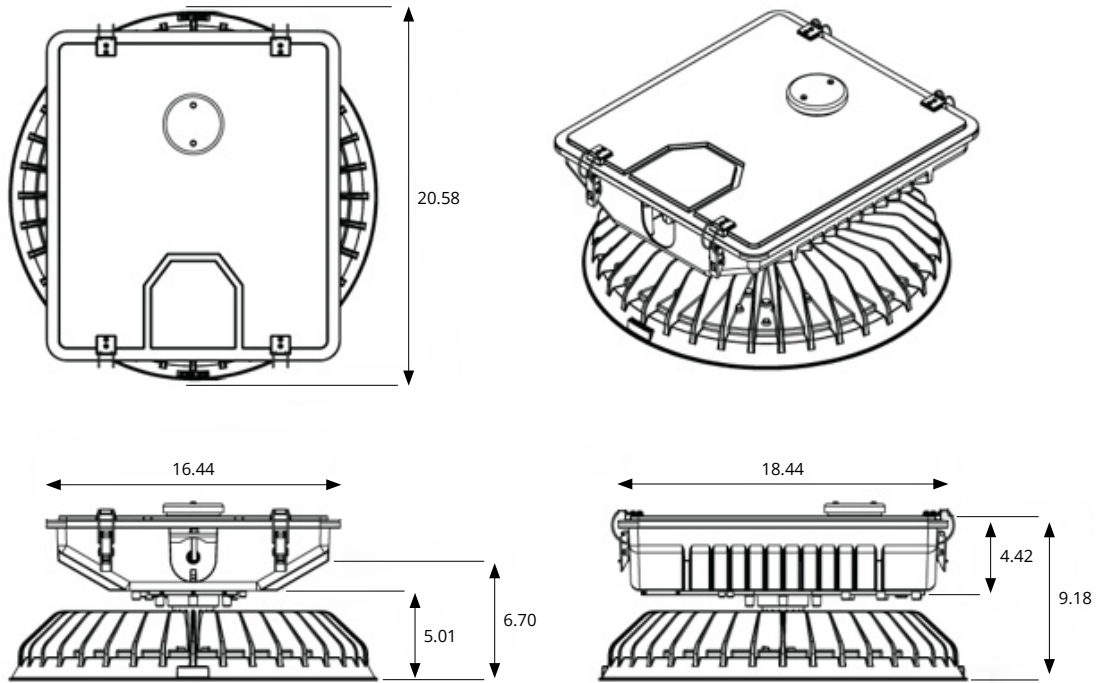
CHIP SET	WEIGHT (LB)	EPA
02C	38	2.11
03C	39	2.11
04C	39	2.11
05C	39	2.11
06C	43	2.11
07C	43	2.11
08C	43	2.11
09C	43	2.11
S180CLED4	+1.8 LBS	+0.78

CLED4

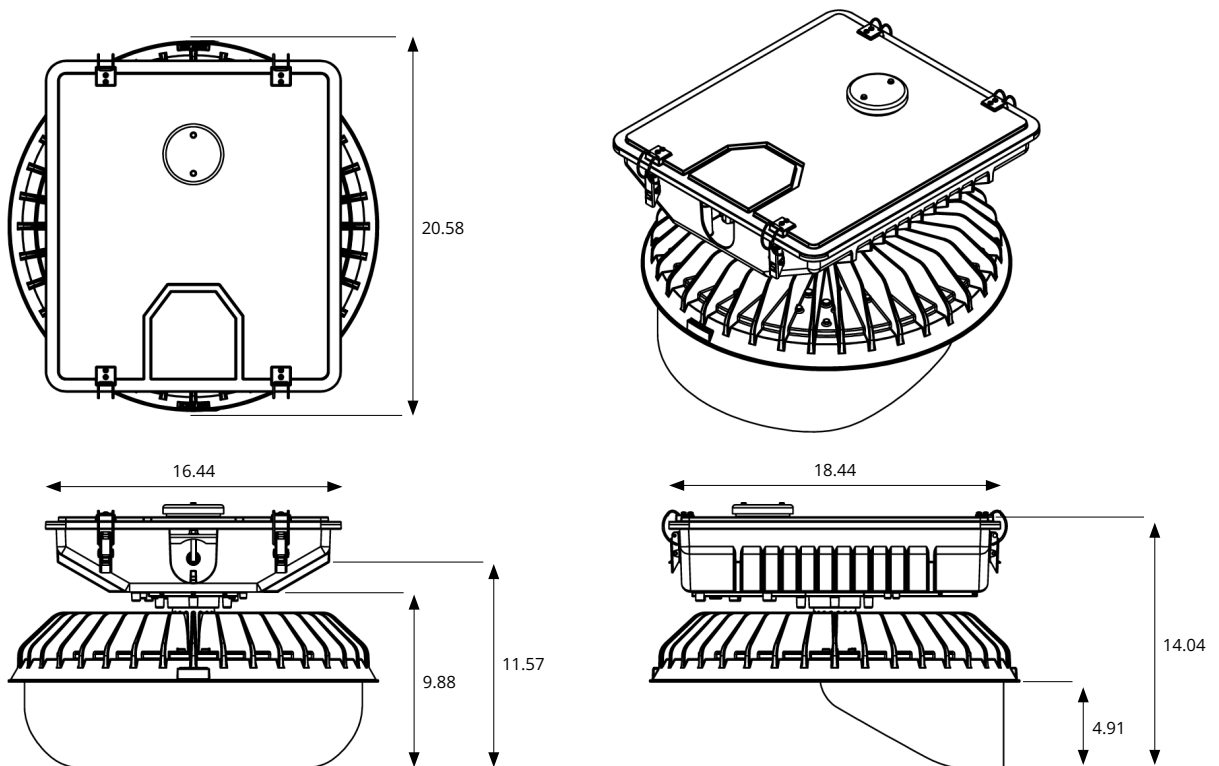
FOURTH GENERATION LED HIGH MAST LUMINAIRE

DIMENSIONS

CLED4



CLED4 WITH S180CLED4 ACCESSORY



CLED4

FOURTH GENERATION LED HIGH MAST LUMINAIRE



SPECIFICATIONS

GENERAL DESCRIPTION

The CLED4 is ETL/cETL listed in conformance to standards ANSI/UL1598A with an ingress protection rating of IP66 and a 3G vibration rating. The luminaire is rated for operation in ambient temperatures of -40°C to 50°C. The luminaire meets Buy American Act (BAA) and Build America, Buy America (BABA) requirements for federally funded projects and carries the Go Texan certification.

HOUSING

The driver housing is thermally isolated from the LED housing to maximize driver life by minimizing heat transfer. Drivers are side-mounted to optimize heat dissipation, with integrally cast cooling fins incorporated into the driver housing for enhanced thermal management. The driver housing is IP66 rated. The housing is designed to accommodate a standard 2-inch SCH 40 tenon and features a supporting bracket with four 1/4-inch stainless steel bolts to provide a sturdy mounting system. Incoming power wiring is routed through an IP66-rated cord grip to prevent the ingress of water and dust into the driver compartment. The tenon clamp assembly allows the luminaire to be leveled with an adjustment range of ± 5 degrees during installation.

ELECTRICAL SYSTEM

The LED drivers are Class P and UL 8750 listed. They operate within $\pm 10\%$ of the specified input voltage without the use of an integral step-down transformer. The CLED4 is available in three input voltage configurations: 120V, 208-277V, and 340-480V. The LED drivers have a minimum power factor of 0.95 and a maximum Total Harmonic Distortion (THD) of 20%. Standard features include 0-10V dimming leads, with an optional 7-pin NEMA receptacle available for compatibility with wireless and networked lighting control systems. The system includes a secondary surge protection system with 20 kA surge protection device to provide enhanced protection against transient voltage events. The LEDs are rated for an L70 lumen maintenance life exceeding 100,000 hours at an ambient temperature of 25°C. The system utilizes two LED drivers, ensuring that failure of one driver does not result in complete luminaire failure.

LED ASSEMBLY

The optical assembly utilizes a self-sealing, optical-grade silicone lenses that provide superior resistance to cracking, fading, and yellowing while preventing the ingress of dirt, dust, and water. The desired lighting distribution is achieved through overlapping optical patterns, ensuring that the failure of an individual LED, complete LED module, or driver does not significantly alter the overall photometric distribution. The specified distribution is accomplished without the use of external shields or louvers, providing precise optical control with zero uplight (U0 rating). The LED modules are mounted to a thermally optimized, heat-sinking housing with integrally cast cooling fins to maximize thermal management and environmental protection. The LED housing is fully rotatable for precision field aiming and features integrally cast house-side and street-side identification to simplify installation and aiming. The optical assembly and LED housing are IP66 rated for protection against dust and water ingress.

WARRANTY

The entire product shall be covered by a minimum five (5) year limited fixture warranty. Longer warranties are available, contact CHM for additional details.