

CLED SERIES LED LUMINAIRES

STANDARD — FLAMEPROOF — HAZARDOUS LOCATION

FEATURES

- Compact and lightweight LED luminaire with a small mounting footprint adaptable to different installation requirements.
- Modular design provides multiple combinations for maximum versatility.
- Twelve light outputs provide up to 24,000 lumens.
- Choice of three different color temperatures (CCT): 5000K cool white (-C), 4000K neutral white (-N) or 3000K warm white (-W).
- Choice of optics for optimal light distribution in a variety of applications: Type V, medium beam (55°) or narrow beam (25°).
- Multiple mounting options: ceiling, pendant, wall bracket or stanchion mounting.
- Design is suited for mounting heights ranging from 2 m up to 15 m (7 ft up to 50 ft).
- Wide ambient range: -40 °C to +50 °C/+55 °C (-40 °F to +122 °F/+131 °F).
- IK10 impact resistant glass lens.
- Two M20 or M25 threaded entry holes on each side of the wiring compartment. Supplied with 2 x M20 or 2 x M25 blanking plugs.
- Customize to the application requirements; standard clear glass lens, or optional glass lens with diffuser.
- Optional safety cable threads through the fixture housing for additional safety.
- Field replaceable LED drivers and glass assembly.
- Robust enclosure housing with exceptional

thermal design that renders a longer luminaire life.

- Standard 6 kV surge protection.
- Optional 10 kV or 20 kV surge protection available.
- Separate field wiring compartment with screw terminal blocks for easy and secure connections (0.2 mm² to 6 mm²).
- Heavy duty, high temperature silicone gaskets.
- Reported L70 is > 60,000 hours.
- Photometric data and drawings available upon request.

WARRANTY

- 5 year standard warranty.

TYPICAL APPLICATIONS

- Flameproof luminaire solution, certified for hazardous areas in explosive gas Zones 1 and 2 or dust Zones 21 and 22 atmosphere.
- Designed for use in indoor and outdoor applications; suitable for use in:
 - Areas where flammable gases and vapors or combustible dusts may be present
 - Marine (salt water spray) and wet locations
- For use in a wide range of field applications such as
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants



LUMINAIRE MATERIALS

- Body: pressure die-cast copperfree aluminum with gray epoxy powder coat finish
- Glass lens: high strength toughened glass.
- Gasket: silicone
- Blanking plugs: nylon
- Mounting accessories: zinc plated steel, or stainless steel
- Guard and all the fasteners: high corrosion resistant stainless steel

OPTIONS (PURCHASE SEPARATELY)

- Globe guard
- Safety cable

ATEX/IECEx LISTINGS ①

- Zones 1 and 2 – 21 and 22 | Gas (G) and Dust (D) | IP66

① Refer to catalog pages for detailed certification information.

PRODUCT SPECIFICATIONS

Series Lumen Output	CLED03	CLED04	CLED05	CLED06	CLED07	CLED08	CLED10	CLED12	CLED14	CLED16	CLED20	CLED24
Input Power (W, @120-277 Vac)	29	39	52	58	68	78	93	114	134	152	190	228
Equivalencies (W, HID)	50-70W	70-100W	100-150W	150-175W	150-250W	175-300W	200-350W	350-400W	350-400W	400-600W	600-800W	1000W
Nominal Lumens ①	2900	3900	5000	6200	7000	8000	10000	12000	14000	16000	20000	24000
Efficacy (up to, lm/W) ①	100	100	96	107	103	103	108	105	104	105	105	105
Color Temperature (CCT) (K)	5000 4000 3000											
Color Rendering Index (CRI)	≥ 70 CRI											
Voltage	120-277 Vac, 50/60 Hz; 125-300 Vdc											
Surge Protection	6 kV Standard 10 kV or 20 kV Optional											
L70 Lifetime (hrs, reported)	> 60,000 hours											
Ambient Temperature ②	-40 °C ≤ Ta ≤ +55 °C (-40 °C ≤ Ta ≤ +131 °C)				-40 °C ≤ Ta ≤ +50 °C (-40 °C ≤ Ta ≤ +122 °C)				-40 °C ≤ Ta ≤ +55 °C (-40 °C ≤ Ta ≤ +131 °C)			
Temperature Code ②	T4											
Fixture Weight kg (lbs)	8.2 (18.07)			8.9 (19.62)			21.5 (47.40)					
Replaceable Parts	Drivers, Replacement Lens, and Fuse Assembly											

① Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

② Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification.

APPLETONTM

For product information:
www.masteringled.com
 1.800.621.1506



EMERSONTM

CLED SERIES LED LUMINAIRES

STANDARD — FLAMEPROOF — HAZARDOUS LOCATION

Project Information

Part Number: _____ Date: _____
 Project: _____
 Fixture Type: _____

Specifications

CATALOG NUMBERING GUIDE

Series Prefix	Color Temperature		Cable Entry	Voltage	Options
	Lumen Output	Light Distribution Pattern	Wiring		
CLED				BU	
SERIES PREFIX:					
CLED CLED Series Explosionproof LED Luminaires					
LUMEN OUTPUT: ①					
LOW LUMEN MODELS					
03	2900				
04	3900				
05	5000				
06	6200				
07	7000				
08	8000				
10	10000				
12	12000				
LUMEN OUTPUT: ①					
HIGH LUMEN MODELS ②					
14	14000				
16	16000				
20	20000				
24	24000				
COLOR TEMPERATURE:					
C	5000K (Cool)				
N	4000K (Neutral)				
W	3000K (Warm)				
G	Green ③				
LIGHT DISTRIBUTION PATTERN:					
G5	NEMA Type V				
GM	Medium (55°)				
GN	Narrow (25°)				
CONDUIT ENTRY:					
1	Metric M20				
2	Metric M25				
WIRING:					
S	Standard				
L	Dual Loop In/Out Through Wired				
VOLTAGE:					
BU	120-277 Vac, 50/60 Hz; 125-300 Vdc				
OPTIONS:					
D	Diffuser				
10	Surge Protection 10 kV				
20	Surge Protection 20 kV				

① Lumen values apply to CCT 5000K, 70CRI Fixtures. Lumen output may vary slightly for different models. Tolerance +/-10%.

② CLED14, CLED16, CLED20 and CLED24 are only for High Lumen type.

③ For Green other colors (i.e. Red, Blue, or Amber), contact your local sales representative.

MOUNTING ACCESSORIES ①

Material	Catalog Number
Wall Mounting Set of One	
Zinc Plated Steel	CHIDWZ
SS 304	CHIDWS
SS 316	CHIDWS6
Ceiling Mounting Set of One	
Zinc Plated Steel	CHIDCZ
SS 304	CHIDCS
SS 316	CHIDCS6
Pendant Mounting Set of One	
Zinc Plated Steel	CHIDBZ
SS 304	CHIDBS
SS 316	CHIDBS6
Stanchion Mounting Set of Two Pole Dimension: Ø 42 ~ Ø 49 mm (1-1/4" ~ 1-1/2")	
Zinc Plated Steel	CFEHC49Z
SS 304	CFEHC49S
Factory Fitted Bracket for High Lumen ② Set of Two	
Zinc Plated Steel	CLEDTMZ
SS 304	CLEDTMS
SS 316	CLEDTMS6

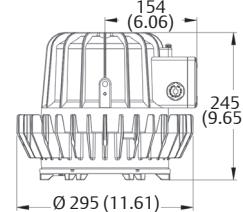
① Mounting accessories must be purchase separately.

② High lumen type must be supplied with this bracket.

DIMENSIONAL DRAWINGS ③ | MILLIMETERS (INCHES)

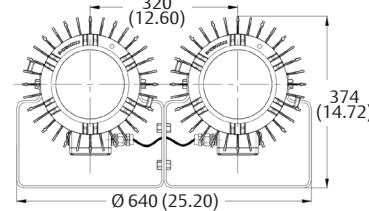
CLED3 to CLED12

Low Lumen



CLED14 to CLED24

High Lumen



③ Driver housing model shown. Refer to catalog pages for additional dimensional information; available on www.masteringled.com.

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www.masteringled.com

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EMERSON

CLED SERIES LED LUMINAIRES

EMERGENCY BATTERY BACKUP — FLAMEPROOF — HAZARDOUS LOCATION

FEATURES

- Compact and lightweight LED luminaire with a small mounting footprint adaptable to different installation requirements.
- Modular design provides multiple combinations for maximum versatility.
- Two different emergency duration options: 90 or 180 minutes. The lumen output will be different at different duration.
- Seven light outputs provide up to 12,000 lumens.
- Choice of three different color temperatures (CCT): 5000K cool white (-C), 4000K neutral white (-N) or 3000K warm white (-W).
- Choice of optics for optimal light distribution in a variety of applications: Type V, medium beam (55°) or narrow beam (25°).
- Multiple mounting options: ceiling, pendant, wall bracket or stanchion mounting.
- Design is suited for mounting heights ranging from 2 m up to 15 m (7 ft up to 50 ft).
- Wide ambient range: -40 °C to +50 °C/+55 °C (-40 °F to +122 °F/+131 °F).
- IK10 impact resistant glass lens.
- Two M20 or M25 threaded entry holes on each side of the wiring compartment. Supplied with 2 x M20 or 2 x M25 blanking plugs.
- Customize to the application requirements; standard clear glass lens, or optional glass lens with diffuser.
- Optional safety cable threads through the fixture housing for additional safety.

- Field replaceable LED drivers and glass assembly.
- Robust enclosure housing with exceptional thermal design that renders a longer luminaire life.
- Standard 6 kV surge protection.
- Optional 10 kV or 20 kV surge protection available.
- Separate field wiring compartment with screw terminal blocks for easy and secure connections (0.2 mm² to 6 mm²).
- Heavy duty, high temperature silicone gaskets.
- Reported L70 is > 60,000 hours.
- Photometric data and drawings available upon request.



WARRANTY

- 5 year standard warranty.

TYPICAL APPLICATIONS

- Flameproof luminaire solution, certified for hazardous areas in explosive gas Zones 1 and 2 or dust Zones 21 and 22 atmosphere.
- Designed for use in indoor and outdoor applications; suitable for use in:
 - Areas where flammable gases and vapors or combustible dusts may be present
 - Marine (salt water spray) and wet locations
- For use in a wide range of field applications such as
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

LUMINAIRE MATERIALS

- Body: pressure die-cast copperfree aluminum with gray epoxy powder coat finish
- Glass lens: high strength toughened glass.
- Gasket: silicone
- Blanking plugs: nylon
- Mounting accessories: zinc plated steel, or stainless steel
- Guard and all the fasteners: high corrosion resistant stainless steel

OPTIONS (PURCHASE SEPARATELY)

- Globe guard
- Safety cable

ATEX/IECEx LISTINGS ①

- Zones 1 and 2 – 21 and 22 | Gas (G) and Dust (D) | IP66

① Refer to catalog pages for detailed certification information.

PRODUCT SPECIFICATIONS

Series Lumen Output	CLED03	CLED04	CLED05	CLED06	CLED08	CLED10	CLED12
Input Power (W, @120-277 Vac)	34	42	55	59	84	110	118
Equivalencies (W, HID)	50-70W	70-100W	100-150W	150-175W	175-300W	200-350W	350-400W
Nominal Lumens ①	2900	3900	5000	6200	8000	10000	12000
Efficacy (up to, lm/W) ①	100	93	91	105	95	91	102
Color Temperature (CCT) (K)	5000 4000 3000						
Color Rendering Index (CRI)	≥ 70 CRI						
Voltage	120-277 Vac, 50/60 Hz; 125-300 Vdc						
Surge Protection	6 kV Standard						
L70 Lifetime (hrs, reported)	>60,000 hours						
Ambient Temperature ②	-40 °C ≤ Ta ≤ +55 °C (-40 °C ≤ Ta ≤ +131 °C)				-40 °C ≤ Ta ≤ +50 °C (-40 °C ≤ Ta ≤ +122 °C)		
Temperature Code ②	T4						
Fixture Weight kg (lbs)	8.9 (19.62)			21.7 (47.84)			
Replaceable Parts	Drivers, Replacement Lens, BMM, Battery Pack, and Fuse Assembly						

① Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

② Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification.

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EMERGENCY BATTERY BACKUP — FLAMEPROOF — HAZARDOUS LOCATION

Project Information

Part Number: _____

Date: _____

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Series Prefix	Color Temperature		Cable Entry	Voltage	Options
	Lumen Output	Light Distribution Pattern	Wiring		
CLED				BU	
SERIES PREFIX:					
CLED CLED Series Explosionproof LED Luminaires					
LUMEN OUTPUT: ①					WIRING:
LOW LUMEN MODELS					S Standard
03	2900				L Dual Loop In/Out Through Wired
04	3900				VOLTAGE:
05	5000				BU 120-277 Vac, 50/60 Hz; 125-300 Vdc
06	6200				OPTIONS:
LUMEN OUTPUT: ①					D Diffuser
HIGH LUMEN MODELS ②					H 90 Minute Emergency ④
08	8000				E 180 Minute Emergency ⑤
10	10000				
12	12000				
COLOR TEMPERATURE:					
C 5000K (Cool)					
N 4000K (Neutral)					
W 3000K (Warm)					
G Green ③					
LIGHT DISTRIBUTION PATTERN:					
G5 NEMA Type V					
GM Medium (55°)					
GN Narrow (25°)					
CONDUIT ENTRY:					
1 Metric M20					
2 Metric M25					

① Lumen values apply to CCT 5000K, 70CRI Fixtures. Lumen output may vary slightly for different models. Tolerance +/-10%.

② CLED08, CLED10 and CLED12 Emergency Version are only for High Lumen type.

③ For Green other colors (i.e. Red, Blue, or Amber), contact your local sales representative.

④ The emergency duration is 90mins with 1300 Lumen output, 2600 Lumen output for High Lumen type

⑤ The emergency duration is 180mins with 700 Lumen output, 1400 Lumen output for High Lumen type.

MOUNTING ACCESSORIES ①

Material	Catalog Number
Wall Mounting Set of One	
Zinc Plated Steel	CHIDWZ
SS 304	CHIDWS
SS 316	CHIDWS6
Ceiling Mounting Set of One	
Zinc Plated Steel	CHIDCZ
SS 304	CHIDCS
SS 316	CHIDCS6
Pendant Mounting Set of One	
Zinc Plated Steel	CHIDBZ
SS 304	CHIDBS
SS 316	CHIDBS6
Stanchion Mounting Set of Two Pole Dimension: Ø 42 ~ Ø 49 mm (1-1/4" ~ 1-1/2")	
Zinc Plated Steel	CFEHC49Z
SS 304	CFEHC49S
Factory Fitted Bracket for High Lumen ② Set of Two	
Zinc Plated Steel	CLEDTMZ
SS 304	CLEDTMS
SS 316	CLEDTMS6

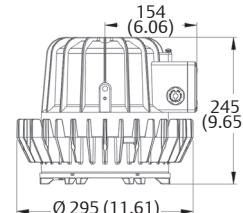
① Mounting accessories must be purchased separately.

② High lumen type must be supplied with this bracket.

DIMENSIONAL DRAWINGS ③ | MILLIMETERS (INCHES)

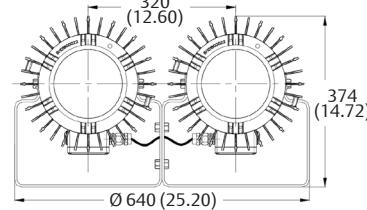
CLED3 to CLED06

Low Lumen



CLED08 to CLED12

High Lumen



③ Driver housing model shown. Refer to catalog pages for additional dimensional information; available on www.masteringled.com.

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