



MODEL:		TYPE
PROJECT:		
PREPARED BY:	DATE:	



CTNLED SERIES

The CTNLED series of LED fixtures are suitable for wet environments with an IP67 rating. They can be used in many locations that need a more capable or robust design such as food processing facilities, car-washes or where high pressure wash down is required.



FEATURES AND SPECIFICATIONS

INTENDED USE:

The CTNLED series of LED fixtures are suitable for wet environments with an IP67 rating. They can be used in many locations that need a more capable or robust design such as food processing facilities, car-washes or where high pressure wash down is required

CONSTRUCTION:

One piece molded reinforced fiberglass housing for strength and durability while allowing for safe, easy installation. The fixture comes with a poured in place continuous sealing gasket. Stainless steel latches standard.

OPTICS:

Injection molded ribbed acrylic high impact lens helps to diffuse the LED source pixilation, without compromising light output. Opaque lens is optional consult factory.

ELECTRICAL:

Long-life LEDs PCB mounted, coupled with high-efficiency drivers, provide extended service life. The CTNLED4 delivers up to 124 lumens per watt. Driver disconnect is provided where required to comply with U.S. and Canadian codes. Thermally protected driver standard.

DIMMING:

LED drivers deliver dimming from a 0-10V control signal. Dims to 10% standard. Wireless networking: EnOcean, Zigbee or Encelium wireless technologies create a network to ensure communication between fixtures, sensors and wall stations facility-wide. This option provides superior lighting management capabilities including granular control, configuration and custom grouping for increased energy savings. Consult factory for dim to off, auxiliary power 12/20/24Vdc and 0-10V step dimming to programmable levels.

INSTALLATION:

Drivers and internal components are accessible from the floor in standard products. LED boards include plug-in connectors for future upgrades. Not intended for continuous row mounting. Removable end plug for installation of 1/2" conduit for end to end connection. Mounting brackets included.

LISTINGS:

UL listed to US and Canadian safety standards. Wet location listed. Fixtures are IP67 rated: protected from dust ingress and liquid immersion between 15 centimeters and 1 meter in depth. Fixtures are Assembled in America. NSF certified for Splash Zone and Non-Food Zone. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

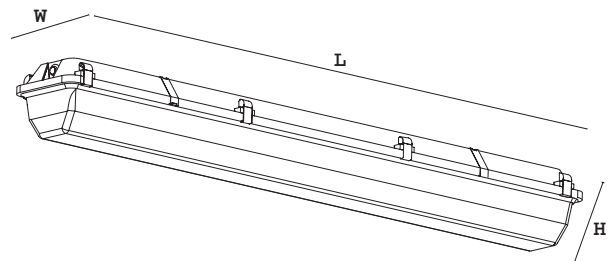
WARRANTY:

5-year limited warranty. Complete warranty terms located at: www.tamliteusa.com/CustomerResources/Terms_and_conditions.asp

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

LINE DRAWING

DIMENSION	L	W	H
4 FT	51.875"	7.3125"	4.5"



ORDERING INFORMATION

CTNLED							
SERIES	SIZE	LUMENS & NO. OF DRIVERS	LENS*	CRI	COLOR TEMP	OPTIONS	EMERGENCY
CTNLED	[4] : 4'	[-40D1] : 4000 Lumens [-50D1] : 5000 Lumens [-60D1] : 6000 Lumens [-70D1] : 7000 Lumens [-80D1] : 8000 Lumens [-90D1] : 9000 Lumens [-100D1] : 10000 Lumens [-125D2] : 12500 Lumens [-150D2] : 15000 Lumens [-170D2] : 17000 Lumens	[LCR1] : Clear Ribbed Lens	[L8] : CRI±80	[40] : 4000K [50] : 5000K	[XE1] : Encelium CLM-DIM** [XE2] : Encelium WALC 20a** [XE3] : Encelium WALC-DR 20a** [XE4] : Encelium WCM 4.5a** [XE5] : Encelium WCM-DR 4.5a** [XM1] : Wireless EnOcean LC-WL-M Relay*** [XM2] : Wireless EnOcean LC-WL-M Node***	[B5] : 500 Lum Backup [B10] : 1000 Lum Backup

*Lens options may affect lumen output.

***LC-WL-M wireless node by Magnum. Compatible with Magnum VEnergy based in EnOcean® communication protocol.

**CLM, WALC & WCM wireless modules by Osram Encelium. Compatible with any LMS that are based in Zigbee® communication protocol.
(e.g. ENCELIUM® Systems by Osram & ControlScope® by Daintree Networks Lighting Management Systems.)**PERFORMANCE SPECIFICATIONS**

SERIES	LUMEN PACKAGE	LUMENS @ 4000K	LPW @ 4000K	LUMENS @ 5000K	LPW @ 5000K	MAX WATTAGE
CTNLED4-40D1	4000	4036	119	4044	119	34.35
CTNLED4-50D1	5000	4869	112	4882	112	44.06
CTNLED4-60D1	6000	5910	120	5875	119	49.95
CTNLED4-70D1	7000	6698	116	6645	114	58.59
CTNLED4-80D1	8000	8256	121	7894	115	69.34
CTNLED4-90D1	9000	9120	116	8719	110	79.66
CTNLED4-100D1	10000	10767	124	10588	122	87.72
CTNLED4-125D2	12500	13203	111	13032	109	120.9
CTNLED4-150D2	15000	14929	107	14601	105	141.3
CTNLED4-170D2	17000	16820	108	17135	110	158.3



CTNLED4 SERIES

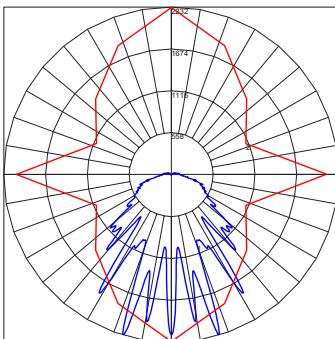
GENERAL DRIVER INFORMATION				
Type	Constant Current, Class 2			
ELECTRICAL SPECIFICATIONS		50W		85W
Input				
Input Voltage (VAC)	120V-277V (+/- 10%)			
Frequency Range (Hz)	50-60 Hz (+/- 10%)			
	120V	277V	120V	277V
Input Current Max (A) Per Driver	0.52	0.23	0.83	0.36
THD @ Full Load	<10%	<20%	<10%	<20%
Efficiency @ Full Load	>85%	>85%	>87%	>89%
Inrush Current (Apk, T@50% of Apk) Per Driver	1.33, 57µs	2.66, 46µs	37.4, 150µs	84.7, 160µs
Power Factor @ Full Load	>0.9			
Output				
Output Voltage (VDC)	10-55VDC			
Output Current (mA) Per Driver	400-1400mA (1mA step)		700-2300mA (1mA step)	
Output Ripple Current	<20% @ 1400mA		<5% @ 2300mA	
Max. Output power (W) Per Driver	50W		85W	
Over Temp. Protection	Foldback to 50% @105°C			
Dimming Control 0-10v	10%			
LED Power Up Time	<1sec			
Load Regulation	<5%			
Line Regulation	<5%			
Over Voltage Protection	Yes, non-latching			
Over Load Protection	Yes, non-latching			
Output Short-Circuit Protection	Yes, non-latching			
Aux Output Voltage	10/20/24 VDC			
Aux Voltage Current Max	40ma			

ENVIRONMENTAL SPECIFICATIONS	50W	85W
Ambient Range	-30°C to 50°C	-40°C to 55°C
Frequency Range (Hz)	85°C (50kHrs) ³ 90°C max. (30kHrs)	85°C (50kHrs) ³ 90°C max. (30kHrs)
EFT		IEC61000-4-4, Level 3 ANSI C82.77-5-2015 (6kV) ²
Transient Protection	NEMA SSL 1-2010 (2.5kV)	
Max. Storage Temp.	70°C	
Max. Relative Humidity	85% non-condensing	
EMi Compliance	FCC Part 15 Class A	
Sound Rating	Class A	

PHOTOMETRIC REPORTS

POLAR GRAPH

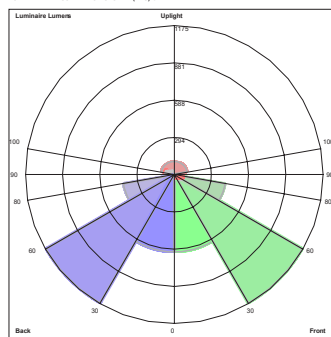
IES ROAD REPORT
PHOTOMETRIC FILENAME : CTNLED4-40D1LCR1L840.IES
POLAR GRAPH



Maximum Candela = 2232 Located At Horizontal Angle = 90, Vertical Angle = 16.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (16.5) (Through Max. Cd.)

LUMINAIRE CLASSIFICATION GRAPH

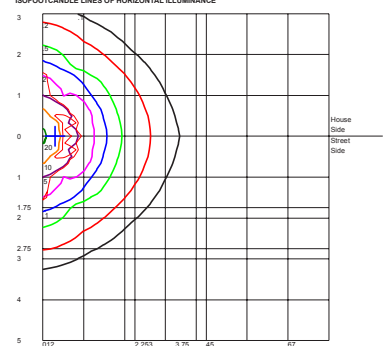
IES ROAD REPORT
PHOTOMETRIC FILENAME : CTNLED4-40D1LCR1L840.IES
LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=14.1, Medium=1175.1, High=413.2, Very High=71.4
Back: Low=414.1, Medium=1175.1, High=413.2, Very High=71.4
Uplight: Low=93.3, High=108.0
BUG Rating: B0-US-G1

ISOCANDELA PLOT

IES ROAD REPORT
PHOTOMETRIC FILENAME : CTNLED4-40D1LCR1L840.IES
ISOCANDELA PLOT



Distance in Units of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point



CONTROLS**MAGNUM WIRELESS CONTROLS****Wireless 0-10v Node
(LC-WC-M-11647)**

The LC-WL-M 11647 Lighting Control Node in fixture responds to a variety of wireless EnOcean devices to control and dim LED drivers offers on/off control when combined with a wireless light switch or automatic shut-off when combined with a wireless occupancy sensor.

**Wireless Relay
(LC-WC-M-11610)**

The LC-WL-M 11610 Lighting Control Relay for up to 20 amp circuits responds to a variety of wireless EnOcean devices to control and dim LED drivers offers on/off control when combined with a wireless light switch or automatic shut-off when combined with a wireless occupancy sensor.

SOLD SEPARATELY.

OSRAM ENCELIUM INTEGRATED WIRELESS CONTROLS**Fixture-Integrated Connected Lighting Module (CLM)**

Provides an interface between a luminaire and the ENCELIUM EDGE Controller enabling individually-addressable switching and dimming of a luminaire.

Switches or dims industry-standard 0-10v dimming ballasts or LED Drivers.

Connected Lighting Module DIM (CLM-DIM) - Integrate the CLM-DIM directly in TamLite Fixtures to connect directly to OSRAM ENCELIUM® Lighting Management System. Individually addressable, the CLM-DIM enables each luminaire to be independently controlled and configured to wirelessly turn fixtures ON or OFF and DIM via ZigBee® standards.

Wireless Lighting Control (WCM) Module

Provides an interface between a luminaire and the ENCELIUM EDGE and the ENCELIUM Green Buss II Communication Networks.

Allows luminaires and occupancy sensors to communicate via Zigbee based standards. Individually addressable the WCM enables each ballast or LED driver to be independently controlled and configured.

OSRAM Wireless Control Module (WCM) - Include the WCM in TamLite fixtures to enables each LED driver to be independently controlled and configured via OSRAM ENCELIUM®. The WCM devices are Damp-Rated and enables luminaires to be turned ON or OFF via a relay contained in the module as well as delivers a low voltage dimming signal to any 0-10V dimming driver.

Wireless Area Lighting Control (WALC) Module

Provides an interface between a group or zone of luminaires and the ENCELIUM EDGE Controller enabling group or zone-based control of multiple luminaires.

Replaces the need for standard power relays or switch packs.
SOLD SEPARATELY.

OSRAM Wireless Area Lighting Control Module (WALC) - Include the WALC in your next project with TamLite to allow a group of luminaires to communicate with OSRAM ENCELIUM® over a mesh network based on ZigBee® standards. The WALC is Damp-Rated and individually addressable devices that can switch an electrical load up to 20A or a wired zone of multiple luminaires ON or OFF via an integrated high current relay while setting the zone's overall light level with a 0-10V dimming output wired to the luminaires' LED drivers.

OSRAM Integrated Components - Future-proof and flexible options to connect TamLite fixtures to OSRAM ENCELIUM® Lighting Management System

OSRAM ENCELIUM® Compatible Hardware

To get the most value from TamLite smart fixtures, we recommend OSRAM ENCELIUM®, the industry's leading Light Management System. ENCELIUM® brings together the hardware, software you need to control your entire lighting system, all from a single control pane. The Polaris 3D® software is the core element of the ENCELIUM Networked Light Management System. It facilitates the commissioning, usage, and data analysis of the lighting installation.

Learn more what OSRAM ENCELIUM can do for you at www.osram.us/encelium

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