



CAMRAY™ LED Series

Rugged, Versatile,
Sophisticated

Type: _____
 Project/Location: _____
 Contractor: _____
 Prepared By: _____
 Date: _____
 Model No.: _____

FEATURES

- Die-Cast aluminum housing, available in four finishes: dark bronze, off-white, black, and platinum grey
- Nema-3R Rated for indoor/outdoors wet and Damp locations: -20°C to 50°C
- Wall-mount installation on various junction boxes or via rigid conduit
- Patent-pending design for easy installation: wall-mount backplate includes electrical wire box with snap-on connector
- Patent-pending light engine: four power LEDs with redundant interconnections and very wide beam
- Clear polycarbonate lens of reduced size (3" x 1.5"), shock-absorbent and UV-resistant
- Battery: high-temperature rated, Nickel-Metal Hydride technology
- Power consumption in stand-by: less than 5W
- Self-Test and diagnostic functions, operated by micro-controller
- 90 minute run time
- 400-640 lumens
- Color temperature 5000K
- Certified to the CSA 22.2 No.141-15 and No.250.0-08 standards

OPTIONS

- Cold-weather: (-40°C)
- Forward-throw light distribution, for applications of outdoor exit discharge (OSHA 1910.36)
- High-lumen output: 25 to 50% additional level of illumination compared to standard models
- Dual-mode operation: normal lighting and/or emergency lighting with separate AC inputs
- Photo-switch: dusk-to-dawn control of normal lighting
- Remote test: infrared remote control (keyboard ordered separately)
- Time delay: 15 minutes

See warranty details at: www.tnb.ca/en/brands/lumacell



NEMA-3R



TYPICAL SPECIFICATIONS

Supply and install the **Camray™ Series of LED** emergency lighting unit from **Lumacell®**. The unit body shall include a back-plate and housing made of Die-Cast Aluminum with paint finish color: _____ and a UV- and impact-resistant polycarbonate lens of reduced size: 3-in by 1.5-in. The back-plate shall have knockouts for wires and wall-mount installation box as well as a threaded hole for rigid conduit entry at the top of the unit. The back-plate shall have a built-in electrical box with wire terminals and snap-on connector. After complete electrical installation of the back-plate the equipment housing shall be installed by a simple push & snap over the back-plate.

The emergency lights shall be 4 (four) power light-emitting diodes (LED) with operational life of minimum 36,000 hours, until 70% of the initial light level (reported L70). The LED lamps shall have redundant interconnections: eventual failure of one lamp shall allow other LED lamps to function. The unit shall have a dual-voltage input rated: 120/347VAC, 60Hz. The battery charger shall include low voltage disconnect to prevent deep discharge, battery lockout to prevent battery drain prior to energizing the utility power, and brownout protection which will automatically switch unit into emergency mode if the utility power falls below 80% of nominal level. The unit with Nickel-Metal Hydride battery shall be equipped with a micro-controller-based non-audible auto-test circuit and provide minimum 90 minutes of emergency lighting. The unit shall self-test for one minute every month, 30 minutes every six months and 90 minutes annually. The pilot light shall be integrated with the test button; it shall be a bi-color LED and shall change color from normal green to flashing red when a failure is detected from the battery, charger circuit or lamps. A label located near the pilot light shall describe the diagnostic for each flashing code.

When specified, models with dual-mode illumination shall include two separate AC input circuits: un-switched for emergency lighting and switched for normal lighting. When specified, models equipped with photo-switch shall automatically activate the normal lighting only from dusk till dawn, for additional energy savings. The typical ambient illumination for the photo-switch shall be: 10 lux (to turn-on) and 30 lux (to turn-off).

When specified, the unit shall be controlled by an infrared remote control keypad (ordered separately). The remote control shall be able to simulate a power failure of 1 minute, 30 minutes or 90 minutes and also to cancel the test in progress at any time. For units with dual-mode lighting the remote keypad shall also control the normal lighting with on/off switch and dimming functions.

The unit shall be certified to the CSA 22.2 No.141-15 for minimum 90 minutes and No.250.0-08 standards.

The unit shall be **Lumacell®** model: _____

IN THE SAME FAMILY:



- CAMRAY™ Series
Remote Fixtures
p. 134-135

POWER CONSUMPTION

MODEL TYPE	AC SPECS: 120/347VAC				6-12VDC REMOTE
	NORMAL LIGHTING		EMERGENCY LIGHTING		
	CURRENT (MAX)	POWER (MAX)	CURRENT (MAX)	POWER (MAX)	POWER (MAX)
ACSD, SD, SD-H	0.12/0.05A	12W	0.05/0.02A	5W	NiMH battery
SD-CW	-	-	0.16/0.06A	16W	
ACSD-CW-P, -CWRC	not required*		0.24/0.10A	24W	

*Note: Only unswitched AC input; normal lighting with photo-switch or remote control

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TABLE A: SPACING FOR AVERAGE 1FC

National Building Code, Canada

MODEL TYPE	MOUNTING HEIGHT	WATTAGE CAPACITY	
		SINGLE	CENTER-TO-CENTER
Standard	9'	6' X 50'	6' X 50'
With option -H	11'	6' X 60'	6' X 60'
With option -FT	12'	6' X 40'	3' X 70'
With option -FTH	15'	6' X 50'	-

Indoor reflectance: 80/50/20 and 10-ft wide corridor.

Outdoor reflectance: 0/30/10

Note: The illumination level meets ALL the requirements of the National Building Code-Canada and the Life Safety Code (NFPA 101):

- 1) Average of 1 foot-candle or more
- 2) Minimum at any point of 0.1 foot-candle (1.07 lux) or more
- 3) Maximum-to-minimum illumination uniformity ratio of 40:1 or less

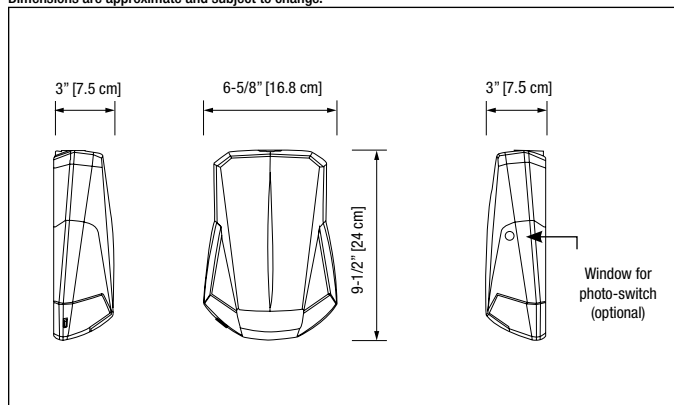
TABLE B: SPACING FOR MINIMUM 1FC

Maximum/minimum uniformity ratio less than 3:1

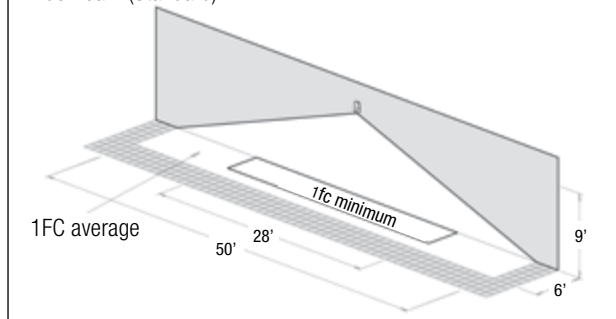
MODEL TYPE	MOUNTING HEIGHT	WATTAGE CAPACITY	
		SINGLE	CENTER-TO-CENTER
Standard	9'	4' X 28'	4' X 32'
With option -H	11'	4' X 32'	4' X 40'
With option -FT	12'	4' X 22'	-
With option -FTH	15'	4' X 27'	-

DIMENSIONS

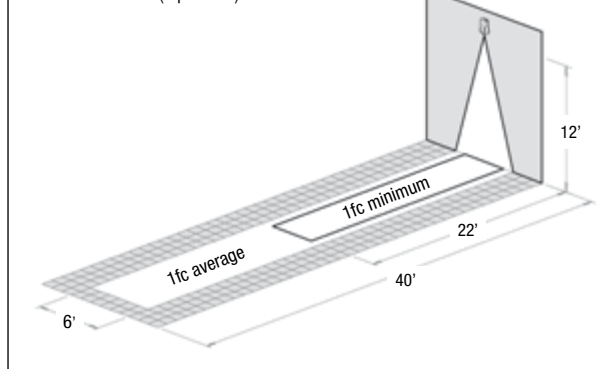
Dimensions are approximate and subject to change.



Wide Beam (Standard)



Forward Throw (Optional)



REMOTE CONTROL

Patent Pending

Emergency Lighting →

Normal lighting with switch & dimming →

Part#: TB-RC1-L

ORDERING INFORMATION

SERIES	FUNCTION: BATTERY UNITS	COLOUR	OPTION
CAML= Camray™ LED	SD= Self-Powered & Diagnostic (-20°C to 50°C) ACSD= dual-mode AC/Self-Powered & Diagnostic (-20°C to 40°C)	BK= black DB= dark bronze OW= off-white PG= platinum grey	-ZC= 277VAC 60Hz input -CW= cold weather (-40°C; not available with option -H) -FT= forward throw lighting -H= high lumen output (maximum 30°C; model SD only) -P= photo-switch (model ACSD only) -RC= remote control - infrared* -T3= time delay (15 minutes)

* TB-RC1-L= remote control keypad (sold separately)

EXAMPLE: CAMLSDOW-CW