



LRAU Series

Recessed architectural
battery unit

Nexus®Pro



FEATURES

- Recessed installation in T-bar suspended ceiling and easily spring mounted in Gyproc ceiling
- All-metal backbox enclosure
- Thermoplastic rectangular fixture with additional round trim-plate, white finish
- Long-life, high-temperature rated lithium battery
- Infrared remote test control (up to 9.1 m/30')
- Two-wire universal AC input: 120 – 347VAC 50-60Hz
- 90 minutes of emergency lighting
- Fixed optics, optimized light distribution for ceiling heights up to 3.7 m (12')
- Four high-intensity LED sources with redundant connections; CCT 5000K
- NSF certified for splash/non-food zone applications
- Certified cUL to CSA 22.2 No.141
- See warranty details at: www.lumacell.ca

OPTIONS

- Optional housing rated for plenum or insulated ceilings (IC)
- Black thermoplastic decorative trim-plates
- Nexus®Pro: IoT emergency lighting monitoring system optional
- Fixed, square distribution pattern up to 3.7 m (12') ceilings
- Self-test and diagnostic functions

SUGGESTED SPECIFICATIONS

Supply and install the **LRAU Series** of recessed emergency lighting unit from **Lumacell®**. The unit construction shall include an all-metal housing and a thermoplastic rectangular trim-plate with a detachable circular trim ring for choice of aesthetics. The optics shall be an impact-resistant polycarbonate lens with fixed light distribution, optimized for ceiling heights up to 3.7 m (12'). The housing shall include an isolated compartment for electrical connections and a detachable cover with knockouts for electrical supplies. The unit shall include a hardware kit for installation in T-bar suspended ceilings.

The emergency lights shall be four high-intensity LED with operational life of minimum 36,000 hours, until 70% of the initial light level (reported L70). The LEDs shall have redundant interconnections: eventual failure of one of them shall allow others to function. The unit shall have a two-wire universal input rated 120-347VAC, 50/60Hz and shall be equipped with a lithium battery. The charger circuit shall provide: AC lock-out, brownout transfer, and battery disconnect at the end of discharge. The charger shall be micro-controller-based and include self-test and diagnostic functions; the unit shall self-test for one minute every month, 30 minutes every six months and 90 minutes annually. The pilot light shall be a bi-color LED, installed behind the main optics 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 on the equipment housing shall describe the diagnostic for each flashing code. The unit shall be supplied with an infrared remote test control to start a manual test of one-minute duration or cancel it if needed.

The unit shall be cUL certified to CSA 22.2 No.141

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



Remote test control

PHOTOMETRY PERFORMANCE

The **LRAU Series** has a fixed lighting distribution, optimized by design for ceiling heights up to 3.7 m (12'). The **LRAU Series** delivers a stable and optimal illumination easy to specify. Along an office corridor the space coverage ranges from 18.9 to 24.4 m (62 to 80'). The square distribution pattern covers a surface of 67.2 m² (729 ft²).

TABLE A: STANDARD UNIT 1.83 M [6-FT] WIDE CORRIDOR¹

Mounting height	Spacing centre-to-centre
2.4 m [8']	18.9 m [62']
2.7 m [9']	20.7 m [68']
3.1 m [10']	24.4 m [80']
3.7 m [12']	22 m [72']

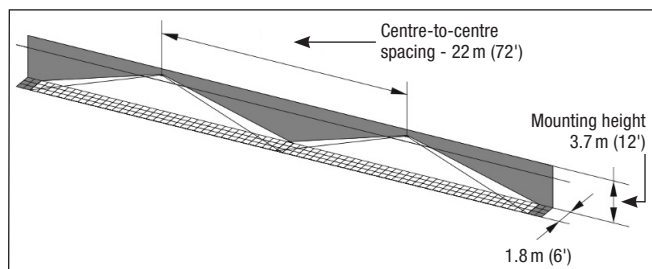
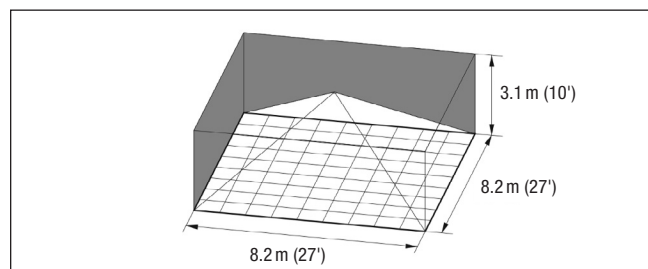


TABLE B: OPTION "SQUARE DISTRIBUTION PATTERN" – SINGLE UNIT COVERAGE¹

Mounting height	Room size	Room surface
3.1 m [10']	8.2 m x 8.2 m [27' x 27']	67.2 m ² [729 ft ²]

¹Typical reflectance levels of walls/ceiling/floor: 80/50/20



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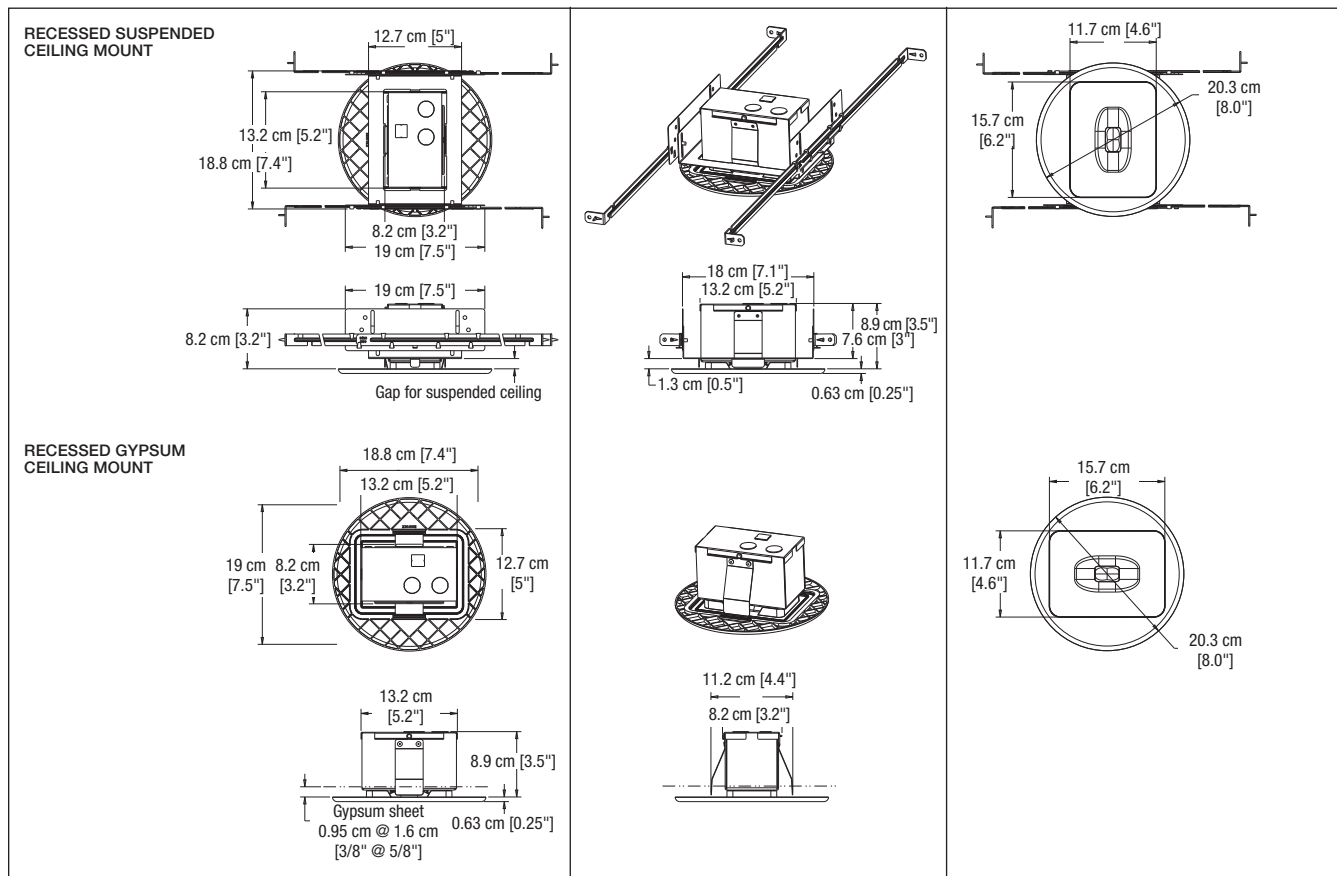


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DIMENSIONS

Dimensions are approximate and subject to change.



ELECTRICAL RATINGS

V (VAC)	Hz	A	MAX (W)	STAND-BY (W)	P.F.
120	50/60	0.03	2.8	0.5	0.6
277		0.02			0.5
347		0.02			0.45

ORDERING INFORMATION

SERIES	COLOUR	UNIT TYPE	OPTIONS	VOLTAGE
LRAU= recessed architectural unit	BK= black WH= factory white	Blank= standard NEXP= Nexus®Pro wireless Bluetooth® UN= advanced diagnostics, non-audible	Blank= corridor lighting pattern D3= 15 minute time delay¹ P= plenum/Type IC rated¹ SQ= square distribution pattern ¹Available with corridor or square lighting pattern	Blank= 120 to 347VAC, 50/60Hz

EXAMPLE: LRAUWH