Peerless® Lighting for People®

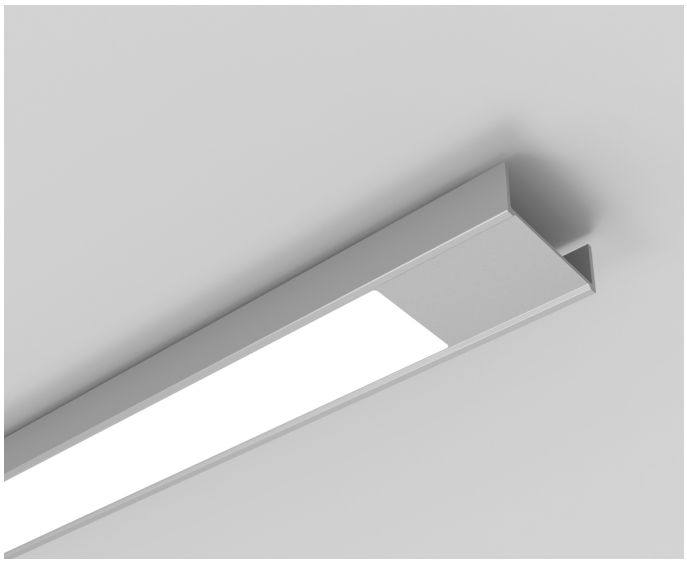
Renna LED Tunable White

RNNAS | LED | Direct | Surface Mount

SPECIFICATIONS

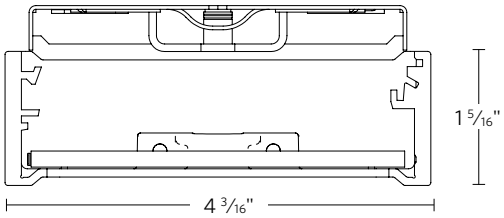
Type:

Project:

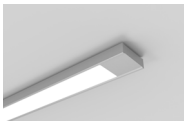


DIMENSIONS

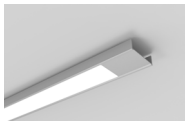
☐ **RNNAS**



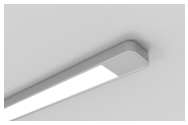
DETAILS



SQEP (Square End Plate)



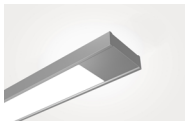
SCEP (Sculpted End Plate)



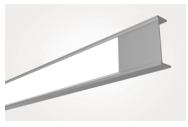
REP (Round End Plate)

COMPANION LUMINAIRE(S)

RNNAD (Direct Only)



RNNAID (Indirect/Direct)



RNNAVWW (Vertical Wall Wash)

CUSTOMIZATION

Ask us about the following possibilities: Transitions, additional distributions, additional mounting options, custom colors, and other modifications.

HIGHLIGHTS

- Total System Integration features 5-year limited warranty by Acuity Brands covering all components and construction
- 4' and 8' sections. Four base direct distributions available
- Up to 102 lm/W
- Softshine® engineered comfort optics
- Flicker free dimming to dark (0.1%) powered by Modulus power and control architecture with integrated digital nLight® module for system networking
- Standard square end plates, rounded or sculpted end plates optional
- White, black, painted aluminum or custom color
- Mainstream Dynamic Tunable White with nTune™ Technology

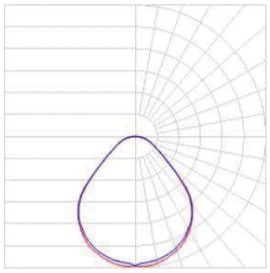
LUMEN PACKAGES

Based on 3500K. Additional color temperatures available.

Direct LED Output	300LMF	500LMF	700LMF	900LMF
Direct Delivered Lumens Per Foot	333	502	703	902
Total Delivered Lumens Per Foot	333	502	703	902
Input Watts Per Foot	3.5	5.0	7.1	8.8
Lumens Per Watt	93	98	99	102

STANDARD DISTRIBUTION

100% Down



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Peerless® Lighting for People®

Renna LED Tunable White

RNNAS | LED | Direct | Surface Mount

Type:

Project:

A+ Capable options indicated by this color background.

MODEL NUMBER

Example: RNNAS LLP 28FT MSL4 90CRI TUWH PROR 900LMF SSH DARK NLT 120 C202 REP

Luminaire

RNNAS

Linear Length Plan

LLP	Linear longest possible
LSL	Longest same length
LCB	Longest Center Balanced

Total Run Length

__FT

Indicate Luminaire Row Length in 4' increments. Ex: 28FT

** Max 16ft run length when vertically mounted on a vertical surface.*

*** Max 64ft run length on horiz surface*

Maximum Section Length

MSL4	4' Section(s)
MSL8	8' Section(s)

LED Color Rendering

90CRI	90+ CRI

Dynamic Feature

TUWH	Tunable White

Dynamic Range

PROR	3000K-5000K

Direct LED Output

300LMF	300 Nominal lumens per foot
500LMF	500 Nominal lumens per foot
700LMF	700 Nominal lumens per foot
900LMF	900 Nominal lumens per foot

***Available in 100 lumen increments between min & max LMF*

Direct Lens (Light Guide Plate)

SSH	SoftShine

Minimum Dimming Level

DARK	Constant current, dimming to < 1%
MIN1	Constant Current dimming to 1%

Control Input

NLT*	nLight nTune interface

**Will use logarithmic dimming curve*

Voltage

120	120V
277	277V
347*	347V
MVOLT	120V-277V

**347V not available with ECOI, EC or WEC*

Emergency Options

(Blank)	None
_EC	Emergency circuit module
WEC	Whole run on EC circuit

Color

C210	Textured White
C202	Textured Black
C110	Painted Aluminum
C099	Custom color
RALTBD*	RAL Paint Finishes

**RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options*

End Caps

SQEP	Square End Caps
SCEP	Sculpted End Caps
REP	Rounded End Caps

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SPECIFICATIONS

Housing
Extruded outer and inner aluminum housing for light weight rigidity and support.

End Plates
Die-cast aluminum end plates are mechanically attached with no exposed fasteners. Square end plates standard. Sculpted or Rounded end plates are optional.

Color
Standard colors are textured white, textured black, and painted aluminum. Consult factory for customer colors and RAL color options.

Luminaire Length
4', and 8' lengths in a single section for nominal suspension spacing of 4' and 8'. For total length, add 2 1/2" for each standard end cap, and 4" for each optional end caps.

Source
4 standard lumen packages available with 2700K, 3000K, 3500K, 4000K, 5000K CCT all within a 2.5 step MacAdam Ellipse.

Optics
Direct optical system consists of Softshine high performance acrylic lens and microstructure film.

Mainstream Dynamic with nTune Technology
This luminaire is enabled with nTune technology, meaning it has the ability to communicate digitally over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of timeclock control, remote status monitoring, and control via SensorView software.

Modulus Remote Power and Control System
Remote power source provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Syncing for controls: 2mA max.

THD: <10%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI. When NLIGHT is specified driver will be set for logarithmic dimming curve. If control Input of 0-10V is specified driver will be set for linear dimming curve.

Integrated digital nLight® module enables up to 16 Modulus zones via CAT-5e, when nLight® is selected. The Modulus™ head unit outputs a maximum of 10mA into the nLight® bus. For daylight dimming and/or dual technology detection, see Controls page for external sensor options.

Each modulus head unit utilizes 22 device addresses. Tunable White head units consume 14 device addresses.

Electrical
LED light engine — consisting of modular LED boards and eldoLED® dimming driver — is rated for 60,000 hours (L_{80}) at 25° C ambient temperature. Pre-wired with 18AWG fixture wire. Plug in electrical connectors included in fixtures sections, hard wire connections to be made at canopies and head units.

Environment
Suitable for damp location.

Validation
cULus listed. Tested to UL2108 Standards. LM-79 tested. Individual sections meet FCC Part 15 requirements.

Packaging
Recycled cardboard box and inserts. Biodegradable, protective luminaire bag. Recycled kraft paper tape.

Warranty
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.
The product images shown are for illustration purposes only and may not be an exact representation of the product.

A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

The product images shown are for illustration purposes only and may not be an exact representation of the product.

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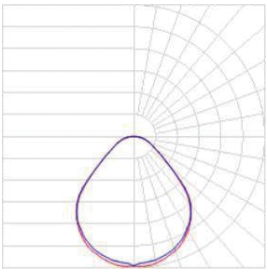
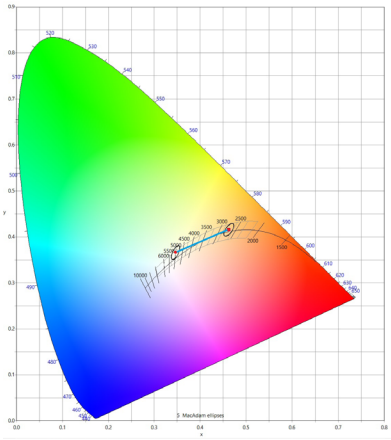
FIXTURE PERFORMANCE DATA

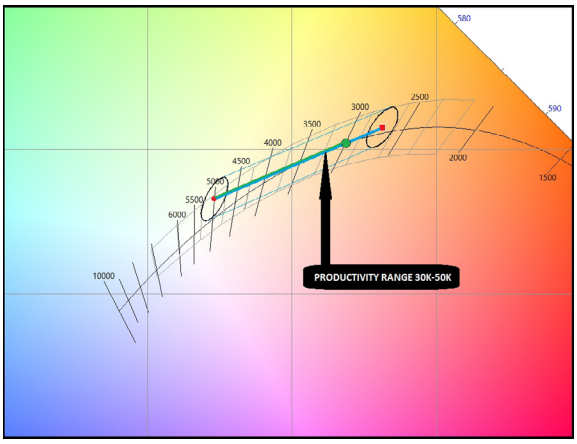


35K 900LMF

102 lm/w

900 delivered lumens





Productivity Range 3000K to 5000K

EXPECTED LIFE: L80@60,000 HOURS

CCT SCALING CHART

CCT	CRI	MULTIPLIER
27K	90CRI	.92
30K	90CRI	.99
35K	90CRI	1
40K	90CRI	1.01
50K	90CRI	.94

HEAD UNIT RUN LENGTH CHART

Direct Lumen Output

Lumens/4ft	300	500	700	900
Max Run Length	32ft	32ft	32ft	32ft

**This table indicates 1 Head Unit required for the identified run length *Lumen values based on 3500K color temperature*

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LINEAR PLAN:

PEERLESS offers the ability to provide a continuous run plan to suit your requirements by optionally offering three different methods of configuration.

LSL- Linear Same Length:
In this configuration, each segment is the same length and is standardized based on the longest length available and is the only option provided. Because it is dependent on one segment length there are mathematical limitations on what overall row lengths can be achieved. Example: 20 FT row would be achieved with 5, 4 FT long segments equaling 20 FT (nominal).

LSL	4FT	4FT	4FT	4FT	4FT

LLP- Linear Longest Possible
In this configuration, the longest length available is optimized, resulting in the fewest segments and mounting locations. Caution, should be used where balanced appearance is a concern. Example: 20 FT run would have 2, 8 FT segment and 1, 4 FT segment at the end of the run.

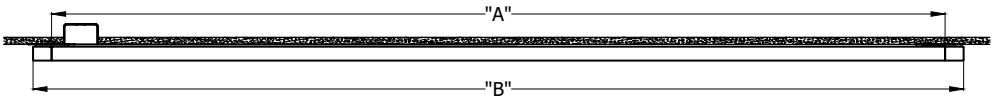
LLP	8 FT	8 FT	4 FT

LCB- Linear Center Balanced:
This configuration incorporates the longest center segment(s) along with any additional lengths required to fill the run length, added to the run ends. Example: 16 FT run would have 2, 4 FT segments (one at each end) and 1, 8 FT segment in the center.

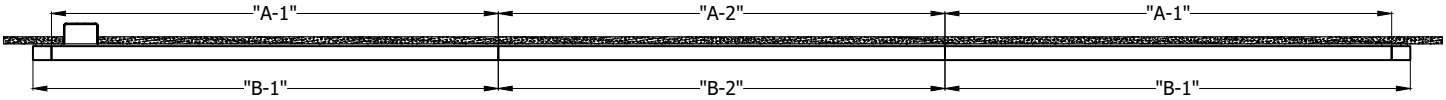
LCB	4 FT	8 FT	4FT

WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.



INDIVIDUAL FIXTURES					
ORDERED LENGTH	"A" O.C.	"B" SQEP OVERALL	"B" SCEP OVERALL	"B" REP OVERALL	APPROX. WEIGHT
4FT	4'-0"	4'-4"	4'-6"	4'-6"	8LB
8FT	8'-0"	8'-4"	8'-6"	8'-6"	16LB



RUN LAYOUT							
ORDERED LENGTH	"A-1" O.C.	"A-2" O.C.	"B-1" SQEP OVERALL	"B-1" SCEP OVERALL	"B-1" REP OVERALL	"B-2" OVERALL	APPROX. WEIGHT
4FT	4'-0"	4'-0"	4'-2"	4'-3"	4'-3"	4'-0"	8LB
8FT	8'-0"	8'-0"	8'-2"	8'-3"	8'-3"	8'-0"	16LB

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INTELLIGENT LUMINAIRE CHARTS

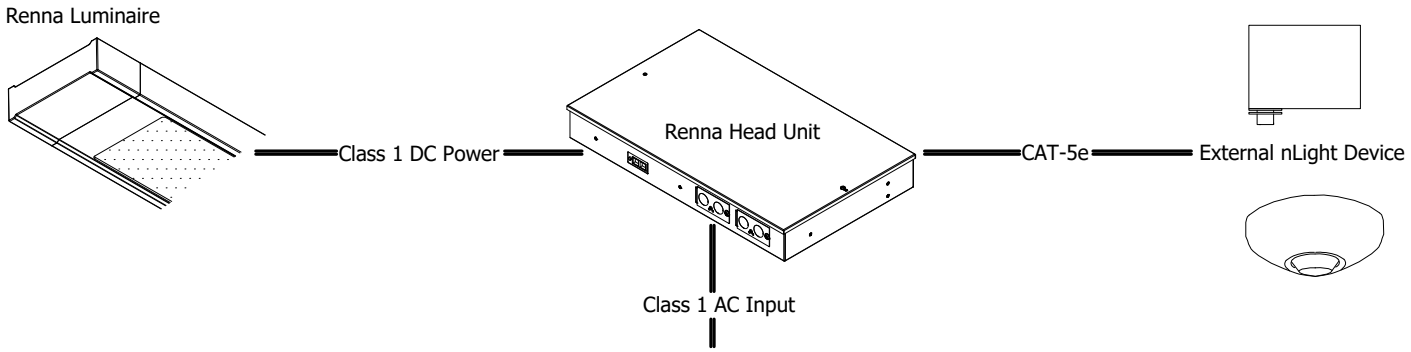
Choose nomenclature from these columns

Driver Configurations

Minimum Dimming Level		Control Input		Driver	Dimming Range	Notes
MIN1	+	ZT	=	eldoLED DCDC DUALdrive	100 to 1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
MIN1	+	NLIGHT	=	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
MIN1	+	NLTAIR2	=	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna
MIN1	+	TUWH NLT	=	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, nIO EZDCA CCT in head unit
MIN1	+	ECOI	=	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, Lutron TVI-LMF-2A Ecosystem -> 0-10V converter in head unit
DARK	+	ZT	=	eldoLED DCDC DUALdrive	100 to 0.1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
DARK	+	NLIGHT	=	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, nIO EZDCA 16Z in head unit
DARK	+	NLTAIR2	=	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, rIO EZDL in head unit with external antenna
DARK	+	TUWH NLT	=	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, nIO EZDCA CCT in head unit

CONTROLS

FOR EXTERNAL CONTROLS



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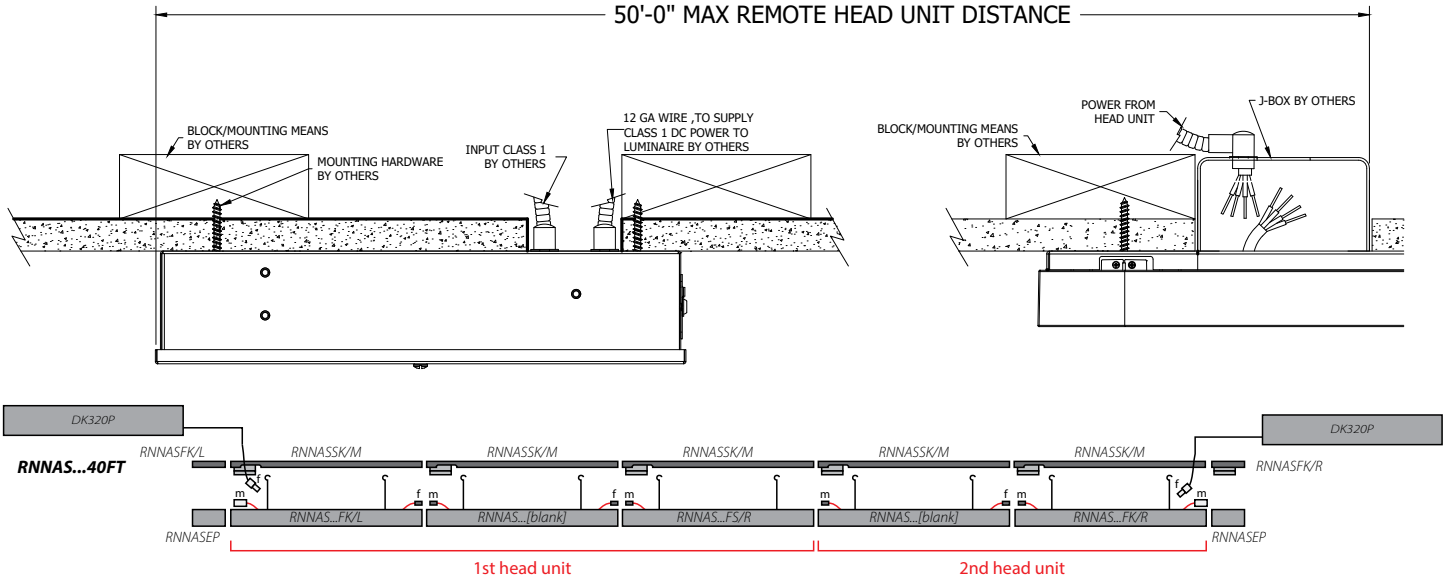
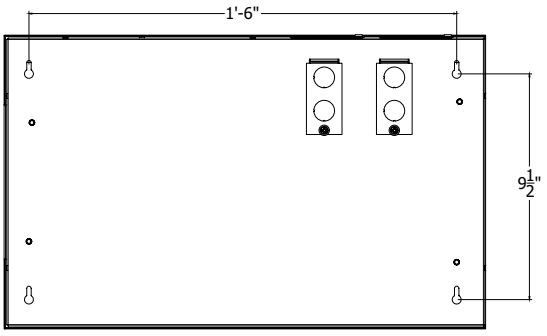
REMOTE HEAD UNITS

F2 CEILING DETAILS



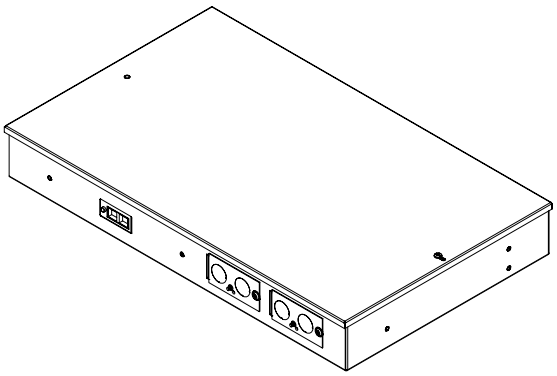
F2 HEAD UNIT DETAILS

MOUNTING LOCATIONS



OVERALL DIMENSIONS

1'-8 ¼" x 1'-³/₈" x 2 ⁵/₈"



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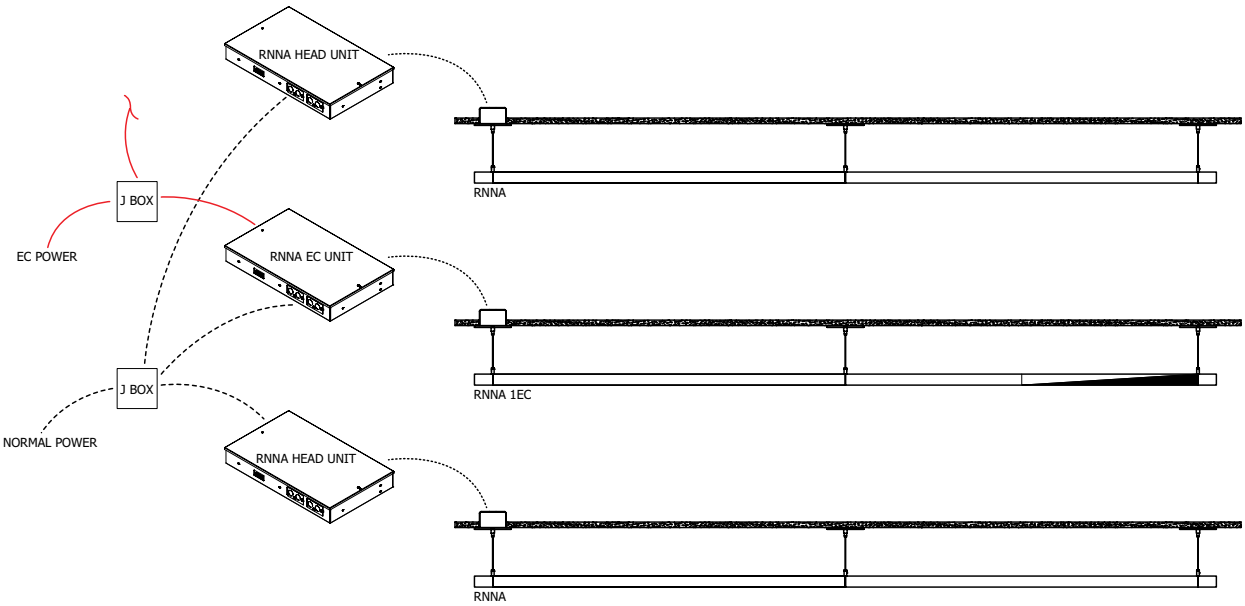
TYPICAL BUILDING LAYOUT



*Emergency power for the Head Unit is not supposed to be daisy chained from another head unit.

EMERGENCY OPTIONS

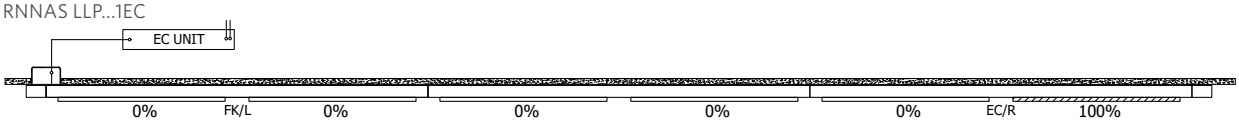
RNNAS

Emergency Options:

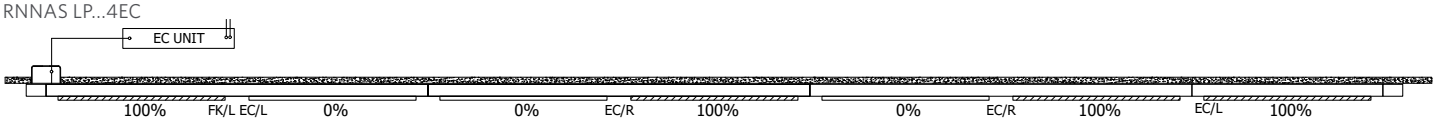
EC circuits default to the right side 4′ section, of an 8′ fixture (EC/R) and the complete section of a 4′ fixture (EC/L). Single EC circuit defaults to the last 4′ of the run. Dual EC circuits default to the last 4′ of the run and the first 4′ of the run. Additional circuits will be added from the end of the run using the last 4′ of an 8′ fixture or complete 4′ fixtures.

EXAMPLES OF TYPICAL EMERGENCY LAYOUTS.

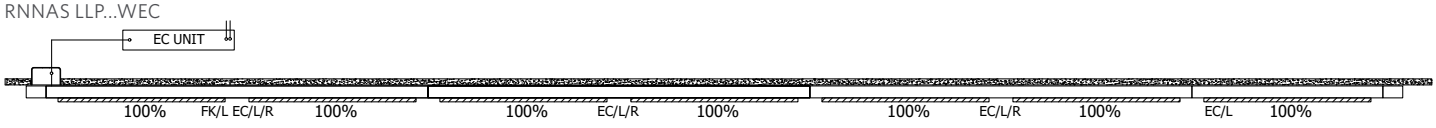
RNNAS LLP...1EC



RNNAS LP...4EC



RNNAS LLP...WEC



*During Emergency modes the indirect portion of the luminaire will be disabled.

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