Peerless®
Lighting for People®

Renna LED

RNNAS | LED | Direct | Surface Mount

DIMENSIONS

☐ RNNAS

1 5/16"

4 3/16"

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

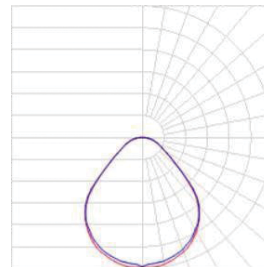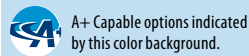- White, black, painted aluminum or custom color

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

Peerless
Lighting for People®

Renna LED
RNNAS | LED | Direct | Surface Mount

A+ Capable options indicated by this color background.

MODEL NUMBER

Example: RNNAS LLP 28FT MSL4 90CRI 40K 900LMF SSH DARK NLIGHT 120 C202 REP

Luminaire	Linear Length Plan		Total Run Length	Maximum Section Length		LED Color Rendering		LED Color Temperature	
RNNAS	**LLP**	Linear longest possible	**__FT**	**MSL4**	4' Section(s)	**90CRI**	90+ CRI	**27K**	2700K
	LSL	Longest same length		**MSL8**	8' Section(s)			**30K**	3000K
	LCB	Longest Center Balanced	*Indicate Luminaire Row Length in 4' increments. Ex: 28FT*					**35K**	3500K
			* Max 16ft run length when vertically mounted on a vertical surface.					**40K**	4000K
			** Max 64ft run length on horiz surface					**50K**	5000K

Direct LED Output		Direct Lens (Light Guide Plate)		Minimum Dimming Level		Control Input		Voltage	
300LMF	300 Nominal lumens per foot	**SSH**	SoftShine	**DARK**	Constant current, dimming to < 1%	**ZT***	0-10V	**120**	120V
500LMF	500 Nominal lumens per foot			**MIN1**	Constant Current dimming to 1%	**NLIGHT****	nLight enabled	**277**	277V
700LMF	700 Nominal lumens per foot					**DALI*****	DALI enabled	**347***	347V
900LMF	900 Nominal lumens per foot					**NLTAIR2**	nLight AIR enabled	**MVOLT**	120V-277V
**Available in 100 lumen increments between min & max LMF						**ECOI**	Lutron Ecosystem Interface	**347V not available with ECOI, EC, E35INV or WEC*	
						*0-10V will use linear dimming curve			
						** Will use logarithmic dimming curve			
						***Not available with sensors			
						***Will use logarithmic dimming curve			

Primary Sesnor or Zone		Secondary Zone		Tertiary Zone	
(blank)	Select if single zone	**(blank)**		**(blank)**	
NS__*	Select if multi-zones required (with no sensors), call out length of zone in feet. Zone length must match whole fixture lengths, zones cannot end mid-fixture.	**SNS__**	Select if secondary zone is required (with no sensors), call out length of zone in feet. Zone length must match whole fixture lengths, zones cannot end mid-fixture.	**TNS__**	Select if tertiary zone is required (with no sensors), call out length of zone in feet. Zone length must match whole fixture lengths, zones cannot end mid-fixture.
_VTX15FADC**	Vertex Sensor		**Not available with NLTAIR2*		**Not available with NLTAIR2*
*Not available with NLTAIR2					
** Only available with NLIGHT. Max 5 Vertex sensor per run. Not available with secondary or tertiary zones					

Emergency Options		Color		End Caps	
(Blank)	None	**C210**	Textured White	**SQEP**	Square End Caps
_EC	Emergency circuit module	**C202**	Textured Black	**SCEP**	Sculpted End Caps
E35INV *	35W Emergency Micro Inverter	**C110**	Painted Aluminum	**REP**	Rounded End Caps
WEC	Whole run on EC circuit	**C099**	Custom color		
*Not available with 27K, 50K, 347V or MVOLT		**RALTBD***	RAL Paint Finishes		
Only available on runs of 8ft or greater		**RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options*			

AcuityBrands.

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.

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 or DALI 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/customer-support/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.

Peerless
Lighting for People®

Renna LED
RNNAS | LED | Direct | Surface Mount

FIXTURE PERFORMANCE DATA
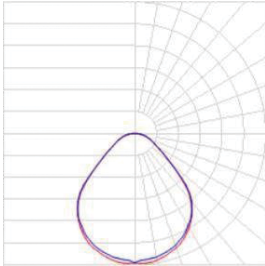
35K 900LMF

102 lm/w

900 delivered lumens

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*

Peerless® | Renna LED
Lighting for People® | RNNAS | LED | Direct | Surface Mount

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.
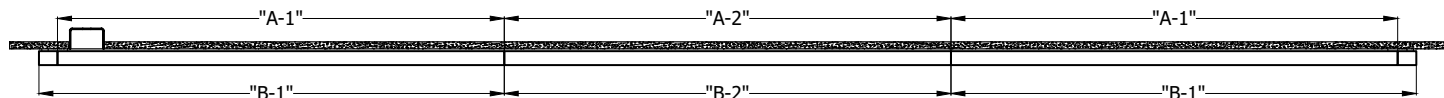
LCB	4 FT	8 FT	4FT

WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.
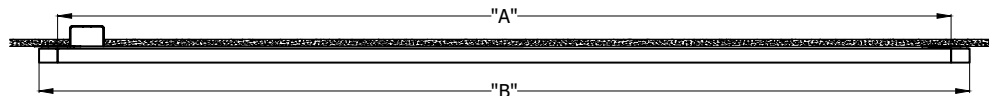
INDIVIDUAL FIXTURES					
ORDERED LENGTH	"A" O.C.	"B" SQEP OVERALL	"B" SCEP OVERALL	"B" REP OVERALL	APPROX. WEIGHT
4FT	4'-0"	4'-4"	4'-6"	4'-6"	8LB
8FT	8'-0"	8'-4"	8'-6"	8'-6"	16LB

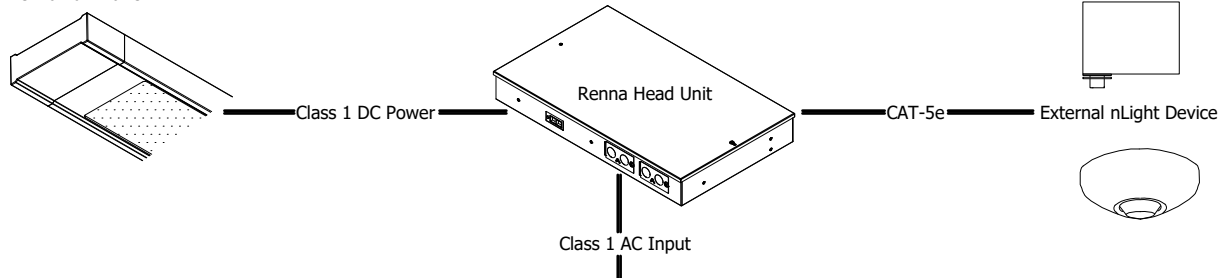| RUN LAYOUT						
ORDERED LENGTH	"A-1" O.C.	"A-2" O.C.	"B-1" SQEP OVERALL	"B-1" SCEP OVERALL	"B-1" REP OVERALL	"B-2" OVERALL	APPROX. WEIGHT
4FT	4'-0"	4'-0"	4'-2"	4'-3"	4'-3"	4'-0"	8LB
8FT	8'-0"	8'-0"	8'-2"	8'-3"	8'-3"	8'-0"	16LB

AcuityBrands.

PeerlessLighting.com
1-800-705-SERV (7378) | **TechSupport@PeerlessLighting.com**
Rev. 06/24/21

Peerless®
Lighting for People®

Renna LED
RNNAS | LED | Direct | Surface Mount

INTELLIGENT LUMINAIRE CHARTS

Choose nomenclature from these columns

Driver Configurations

Minimum Dimming Level		Control Input		Driver	Dimming Range	Notes
MIN1	+	DALI	=	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, DALI controls and power supply supplied by others
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	+	DALI	=	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, DALI controls and power supply supplied by others
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

Control + Sensor Configurations

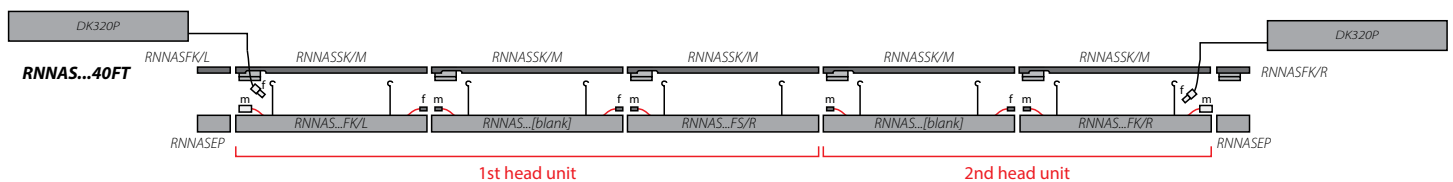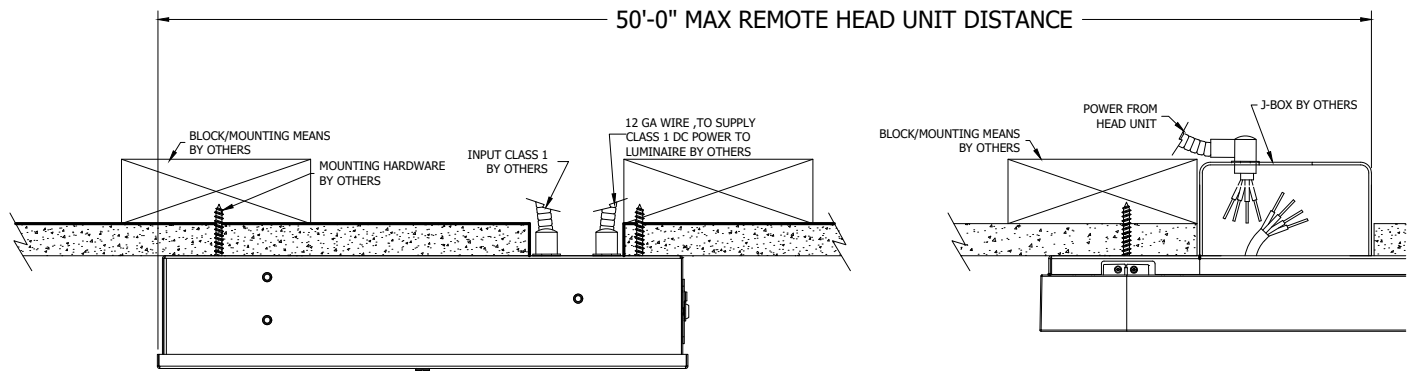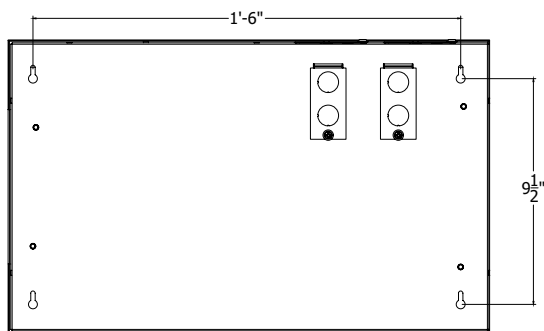| Control		Sensor		Sensor	Notes
NLIGHT	+	VTX15FADC	=	VERTEX 15F EZ ADC VLP	Available in endcaps or midpoint of 8ft fixture section. Max 5 sensors per run. Zoning reconfigurable via Sensorview software.
NLT	+	VTX15FADC	=	VERTEX 15F EZ ADC VLP	Available in endcaps or midpoint of 8ft fixture section. Max 5 sensors per run. Zoning reconfigurable via Sensorview software.

CONTROLS

FOR EXTERNAL CONTROLS
Renna Luminaire
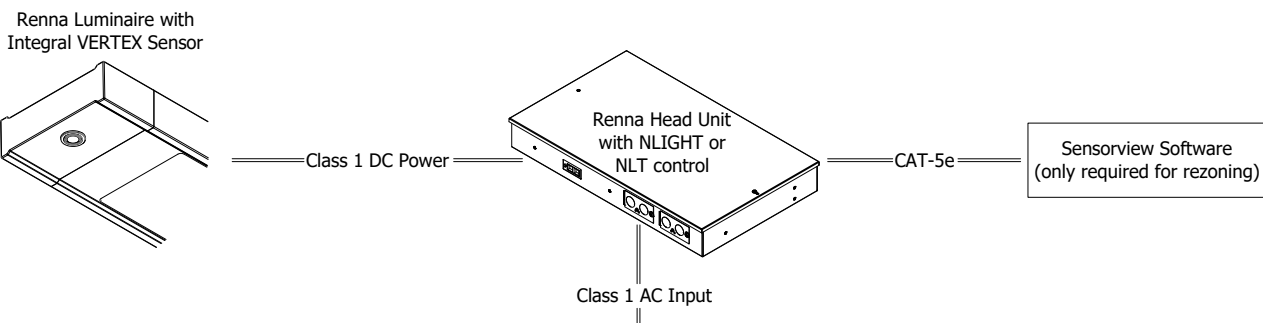
Class 1 DC Power — Renna Head Unit — CAT-5e — External nLight Device

Class 1 AC Input

FOR INTERNAL CONTROLS
Renna Luminaire with Integral VERTEX Sensor

Class 1 DC Power — Renna Head Unit with NLIGHT or NLT control — CAT-5e — Sensorview Software (only required for rezoning)

Class 1 AC Input

AcuityBrands.

PeerlessLighting.com
1-800-705-SERV (7378) | TechSupport@PeerlessLighting.com
Rev. 06/24/21
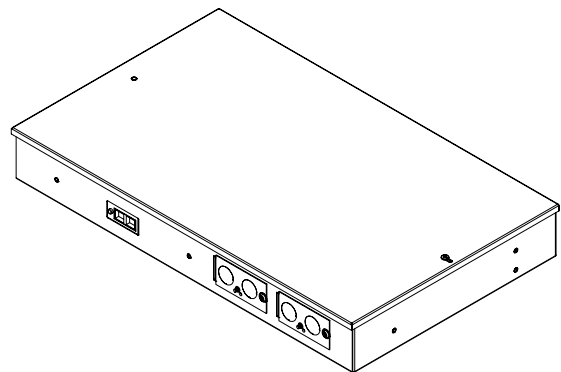
TYPICAL BUILDING LAYOUT

RNNA HEAD UNIT

J BOX

EC POWER

RNNA

RNNA EC UNIT

J BOX

NORMAL POWER

RNNA 1EC
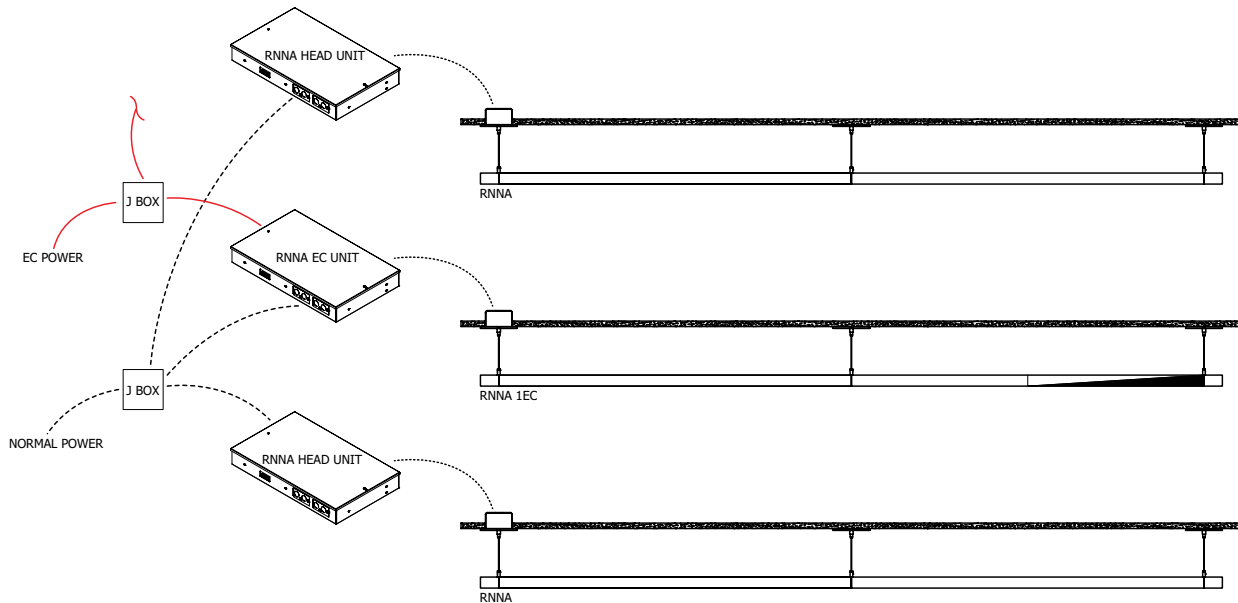
RNNA HEAD UNIT

RNNA

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

EMERGENCY OPTIONS
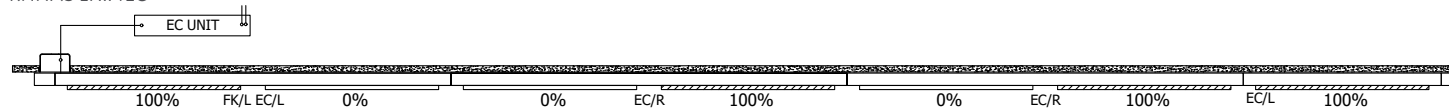
RNNAS

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. If the final fixture is a 2' fixture, the EC circuit will be placed at the next available 4' or 8' fixture section from the end of the run.

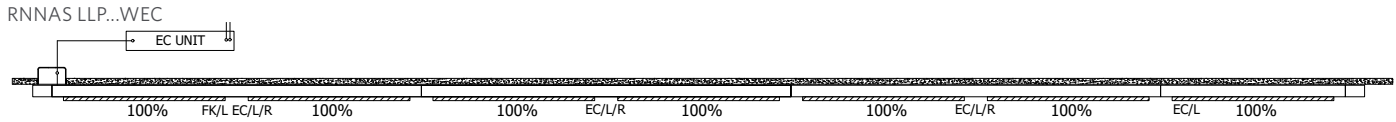**EXAMPLES OF TYPICAL EMERGENCY LAYOUTS.**

RNNAS LLP...1EC

EC UNIT

| 0% | FK/L | 0% | 0% | 0% | 0% | EC/R | 100% |

RNNAS LP...4EC

EC UNIT

| 100% | FK/L EC/L | 0% | 0% | EC/R | 100% | 0% | EC/R | 100% | EC/L | 100% |

RNNAS LLP...E35INV

E35INV UNIT

| 10% | FK/L E35INV | 10% | 10% | E35INV | 10% | 10% | E35INV | 10% |

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

Peerless
Lighting for People®

Renna LED
RNNAS | LED | Direct | Surface Mount

Type:

Project:

9

EMERGENCY OPTIONS

RNNAS LLP...WEC

| EC UNIT |

100%   FK/L EC/L/R   100%   100%   EC/L/R   100%   100%   EC/L/R   100%   EC/L   100%
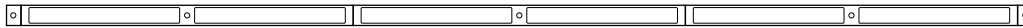
INTEGRATED SENSOR LAYOUT

CORRECT:

8FT MSL8 run with one sensor - VTX15FADC

24FT MSL8 run with five sensors - 5VTX15FADC

16FT MSL4 run with two sensors - 2VTX15FADC

INCORRECT:

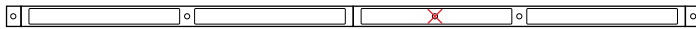32FT MSL8 run with six sensors - 6VTX15FADC

Doesn't work because each head unit can support at most five sensors

12FT MSL4 run with three sensors - 3VTX15FADC

Doesn't work because U4 and U2 sections can't have internal sensors so MSL4 runs can have at most two sensors, one in each end plate

16FT MSL8 run with five sensors - 5VTX15FADC

Doesn't work because there are only four available spots for sensors - midspan of each U8 section and one in each end plate

8FT MSL8 run with three sensors - 3VTX15FADC

Doesn't work because each sensor requires a separate driver for power and communication, and U8 sections most often only have two drivers

16FT MSL8 run with two sensors and two zones - 2VTX15FADC NS8 SNS8

Primary Zone - 8FT   *Secondary Zone - 8FT*
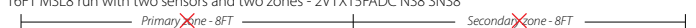
Doesn't work because sensors cannot be ordered with factory zoning. Drivers and sensors can be re-zoned using Sensorview software.

NOTES:
- 5 sensors max per run
- Only U8 fixtures can support internal sensors
- Sensors are available in end plates
- Sensors in end plates require adjacent VTX/WL or VTX/WR fixture sections
- Sensors appear as nLight devices and can be re-zoned in the field using Sensorview software
- Factory zoning isn't available with sensors since they can be re-zoned in the field using Sensorview
- Internal sensors are only available with NLIGHT and NLT control types