

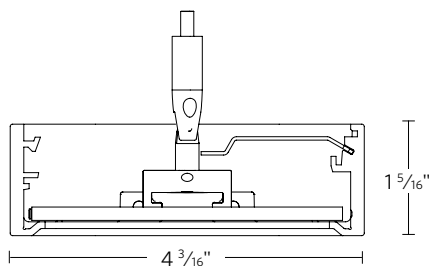
HIGHLIGHTS

- 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

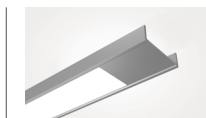


DIMENSIONS

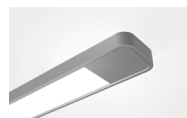
□ RNNAD



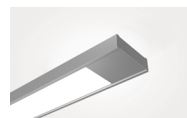
DETAILS



SCEP (Sculpted End Plate)

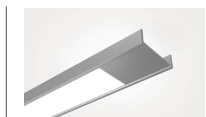


REP (Round End Plate)

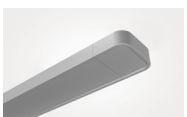


SQEP (Square End Plate)

COMPANION LUMINAIRE(S)



RNNAD (Indirect/Direct)



RNNAI (Indirect)



RNNAVWW (Vertical Wall Wash)

CUSTOMIZATION

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

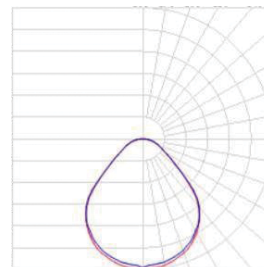
LUMEN PACKAGES

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





A+ Capable options indicated by this color background.

MODEL NUMBER Example: RNNAD LLP 24FT MSL8 90CRI 40K 500LMF SSH DARK NLIGHT 120 F2/48A C210 REP

Luminaire	Linear Length Plan		Total Run Length	Maximum Section Length		LED Color Rendering		LED Color Temperature		Direct LED Output	
RNNAD	LLP	Linear longest possible	__FT <i>Indicate Luminaire Row Length in 2' increments. Ex: 24FT</i>	MSL4	4' Section(s)	90CRI	90+ CRI	27K	2700K	300LMF	300 Nominal lumens per foot
	LSL	Longest same length	<i>*2' only available in a run not as an individual fixture. Ex 6FT MSL4</i>	MSL8	8' Section(s)			30K	3000K	500LMF	500 Nominal lumens per foot
	LCB	Longest Center Balanced						35K	3500K	700LMF	700 Nominal lumens per foot
								40K	4000K	900LMF	900 Nominal lumens per foot
							50K	5000K	<i>**Available in 100 lumen increments between min & max LMF</i>		
Direct Lens (Light Guide Plate)		Minimum Dimming Level		Control Input			Voltage		Emergency Options		
SSH	SoftShine	DARK	Constant current, dimming to < 1%	ZT*	0-10V		120	120V	(Blank)	None	
		MIN1	Constant Current dimming to 1%	NLIGHT**	nLight enabled		277	277V	_EC	Emergency circuit module	
				DALI***	DALI enabled		347*	347V	E35INV*	35W Emergency Micro Inverter	
				NLTAIR2	nLight AIR enabled		MVOLT	120V-277V	WEC	Whole run on EC circuit	
				ECOI	Lutron Ecosystem Interface		<i>*347V not available with ECOI, EC, E35INV or WEC</i>		<i>*Not available with 27K, 50K, 347V, MVOLT or CP</i>		
				<i>*0-10V will use linear dimming curve</i>						<i>*Only available on runs of 8ft or greater</i>	
				<i>** Will use logarithmic dimming curve</i>							
				<i>***Not available with sensors</i>							
				<i>***Will use logarithmic dimming curve</i>							
Primary Sensor or Zone				Secondary Zone				Tertiary Zone			
(blank)	Select if single zone			(blank)	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.			(blank)	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.		
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. <i>*Not available with NLTAIR2</i>			SNS__	<i>*Not available with NLTAIR2</i>			TNS__	<i>*Not available with NLTAIR2</i>		
_VTX15FADC**	Vertex Sensor <i>** Only available with NLIGHT. Max 5 Vertex sensor per run. Not available with secondary or tertiary zones</i>										
Mounting Type/		Overall Suspension		Color			End Caps		Options		
F1/*	T-bar ceiling (universal mounting bracket)	24A	24" adjustable	C210	Textured White		SQEP	Square End Caps	BLK	Black cord, cord manager and canopy	
F1A/*	T-bar ceiling (universal mounting bracket) with integrated J-box	48A	48" adjustable	C202	Textured Black		SCEP	Sculpted End Caps	CP	Chicago Plenum	
		96A	96" adjustable	C110	Painted Aluminum		REP	Rounded End Caps	MCS	Matching Canopy at support for aesthetics	
F2/**	Hard ceiling (horizontal J-box)	144A	144" adjustable	C099	Custom color				OJB	Offset J-box at feed	
		<i>Measured from ceiling to bottom of luminaire.</i>		RALTBD*	RAL Paint Finishes				SLP*	Slope Ceiling	
<i>*F1 & F1A Mount uses standard 3 1/2" canopy on feed and 2" canopy on support</i>				<i>*RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options</i>					<i>*When SLP is chosen need to choose F2 mount and OJB</i>		
<i>**F2 Mount uses standard 5" canopy on feed and 2" canopy on support</i>											
<i>***All feed cords, cord managers and canopies are standard white. They are not painted to match fixture color.</i>											

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

2', 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 (L80) 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.

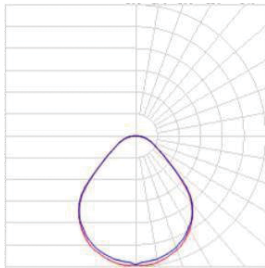
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight 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.

FIXTURE PERFORMANCE DATA



35K 900LMF
102 lm/w
902 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.

MOST COMMON MOUNTING TYPES AND OPTIONS Options available for this specific luminaire are checked in the boxes below.

Mounting Type

- F1/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications.
- F2/** For use with recessed or surface mount horizontal J-box applications.
- F1A/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications. *Comes complete with vertical J-box with built-in wire way. See also CP.*

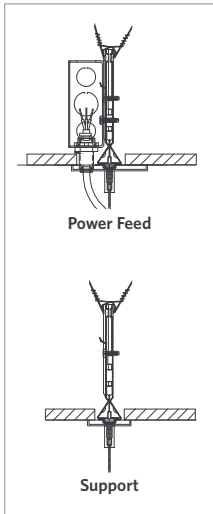
Mounting Options

- MCS** Matching canopy at support for aesthetics.
- OJB** Offset J-box at feed.
- SLP OJB** Sloped ceiling couplers and offset J-box option at feed.

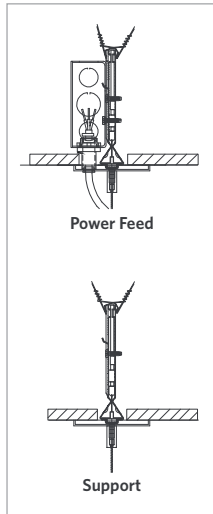
To see more, see the [Hanging Hardware Selection Guide](#).

✓ Indicates mounting options available with this luminaire.

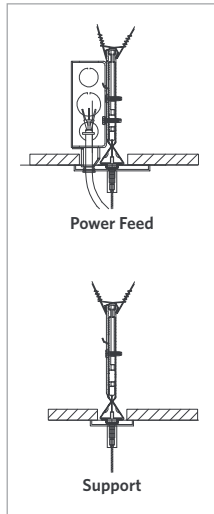
✓ F1/



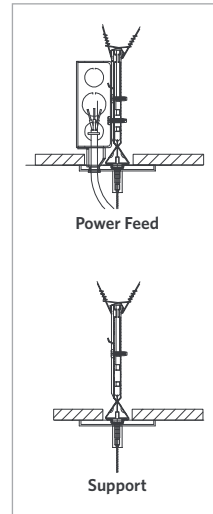
✓ F1/MCS



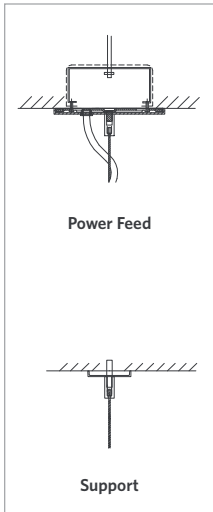
✓ F1A/



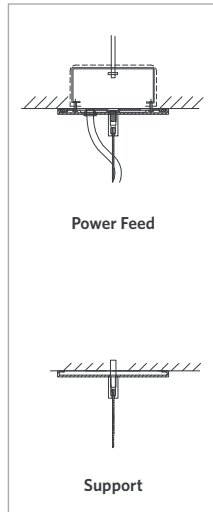
✓ F1A/MCS



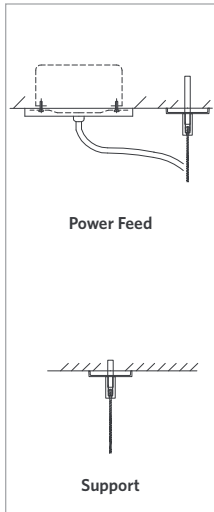
✓ F2/



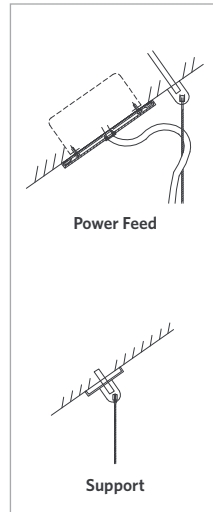
✓ F2/MCS



✓ F2/OJB



✓ F2/SLP OJB



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
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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
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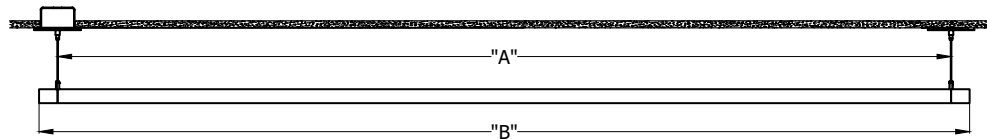
LCB- Linear Center Balanced:

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.

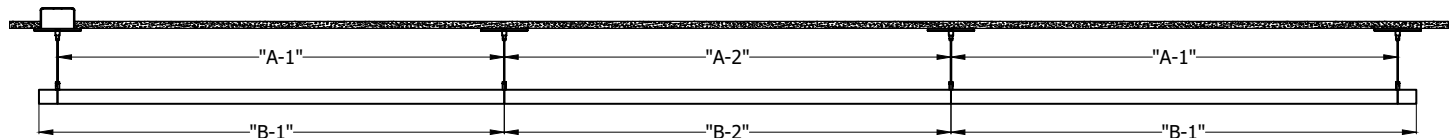
LCB	4 FT	8 FT	4 FT
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WEIGHTS & SUPPORT SPACING

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
2FT	2'-0"	2'-4"	2'-6"	2'-6"	4LB
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
2FT	2'-0"	2'-0"	2'-2"	2'-3"	2'-3"	2'-0"	4LB
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

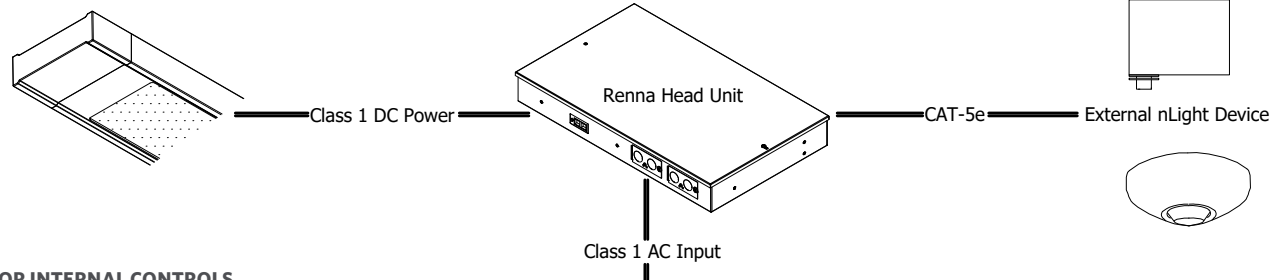
INTELLIGENT LUMINAIRE CHARTS

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

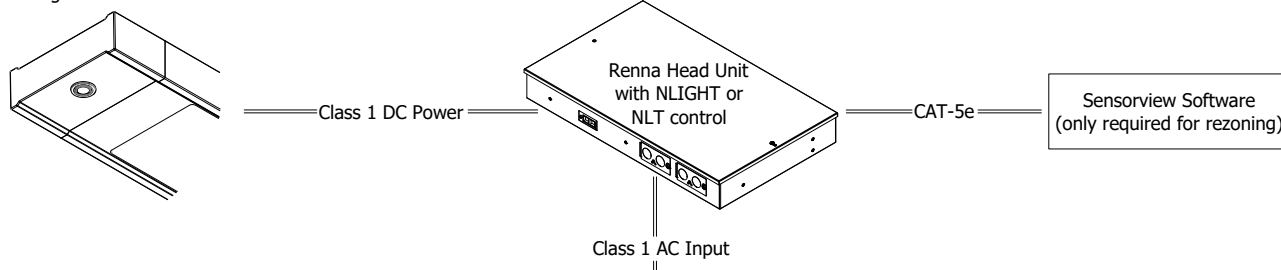
FOR EXTERNAL CONTROLS

Renna Luminaire



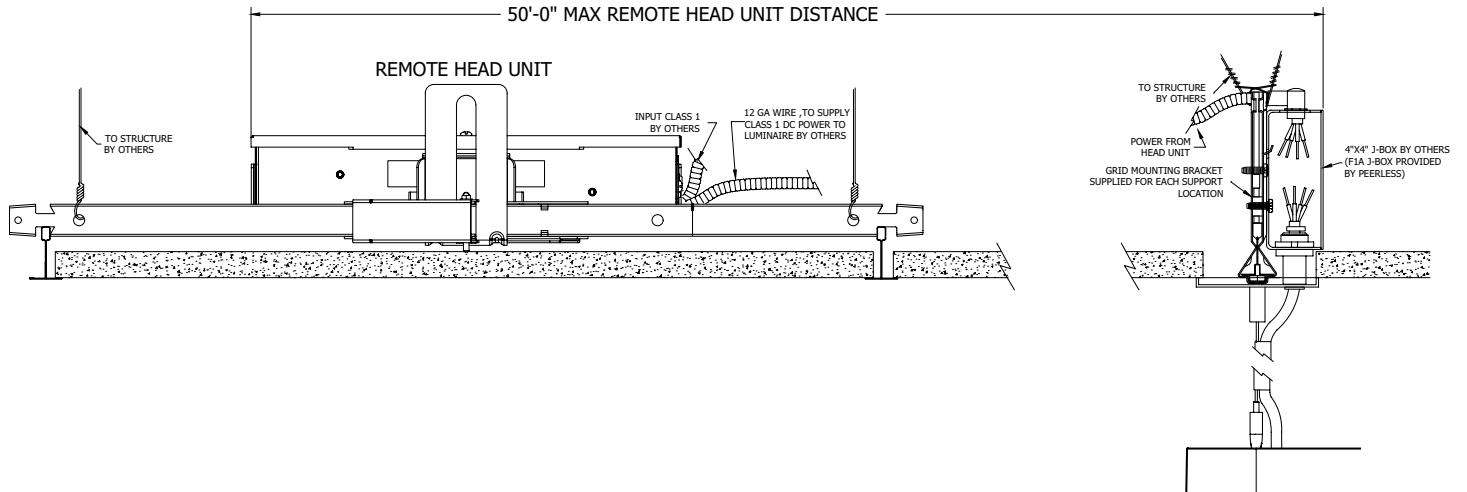
FOR INTERNAL CONTROLS

Renna Luminaire with Integral VERTEX Sensor

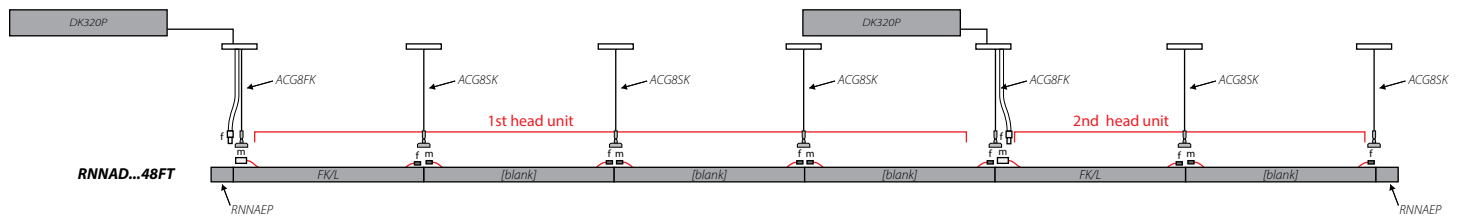
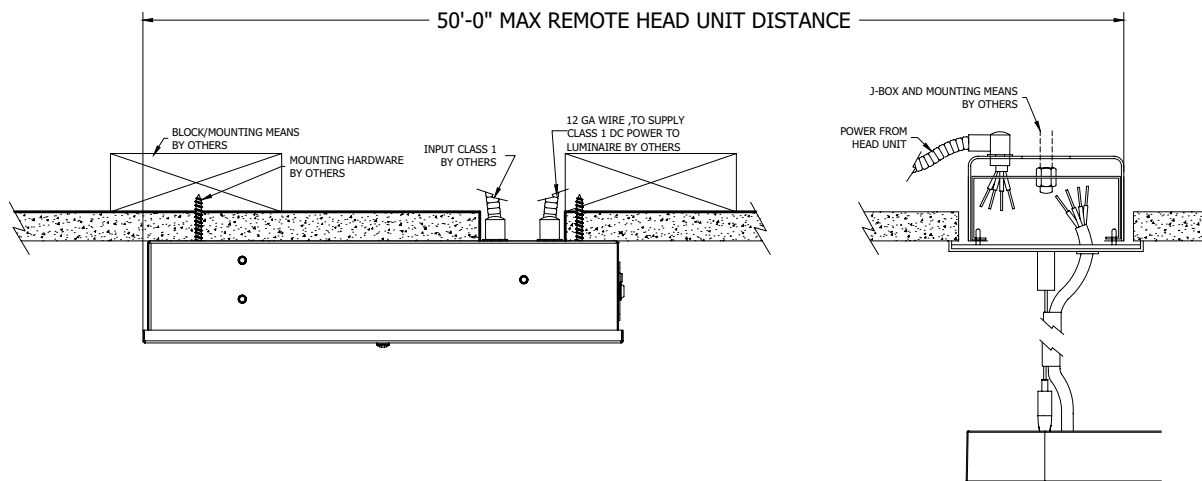


REMOTE HEAD UNITS

F1 CEILING DETAILS



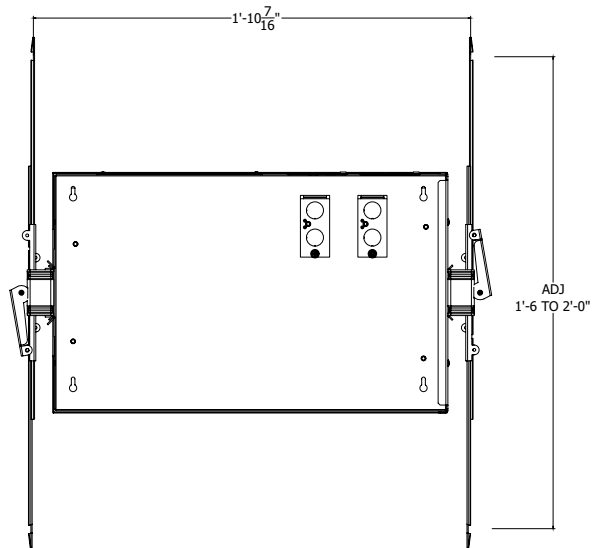
F2 CEILING DETAILS



REMOTE HEAD UNITS

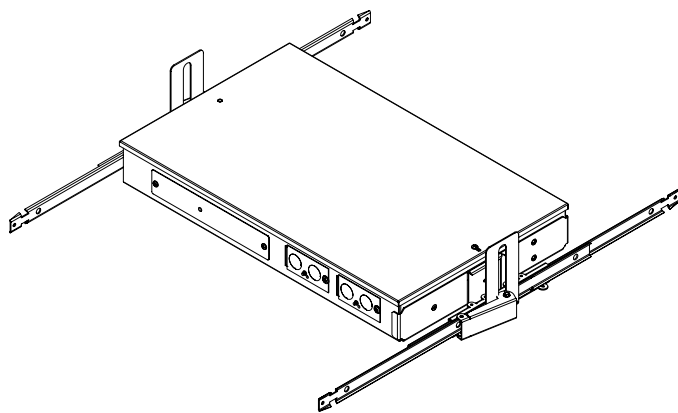
F1 HEAD UNIT DETAILS

MOUNTING LOCATIONS



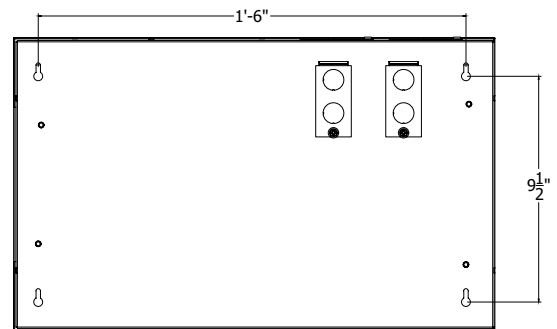
OVERALL DIMENSIONS

2'-2 1/4" x 2'-3/4" x 4 3/4"



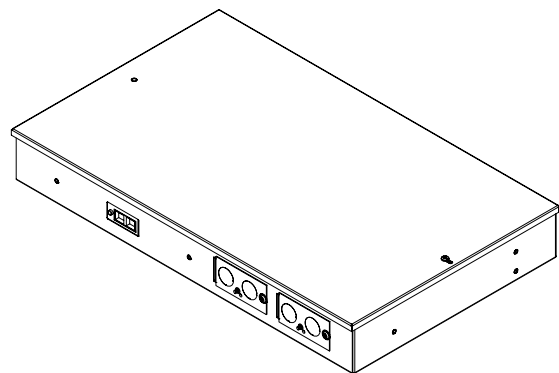
F2 HEAD UNIT DETAILS

MOUNTING LOCATIONS

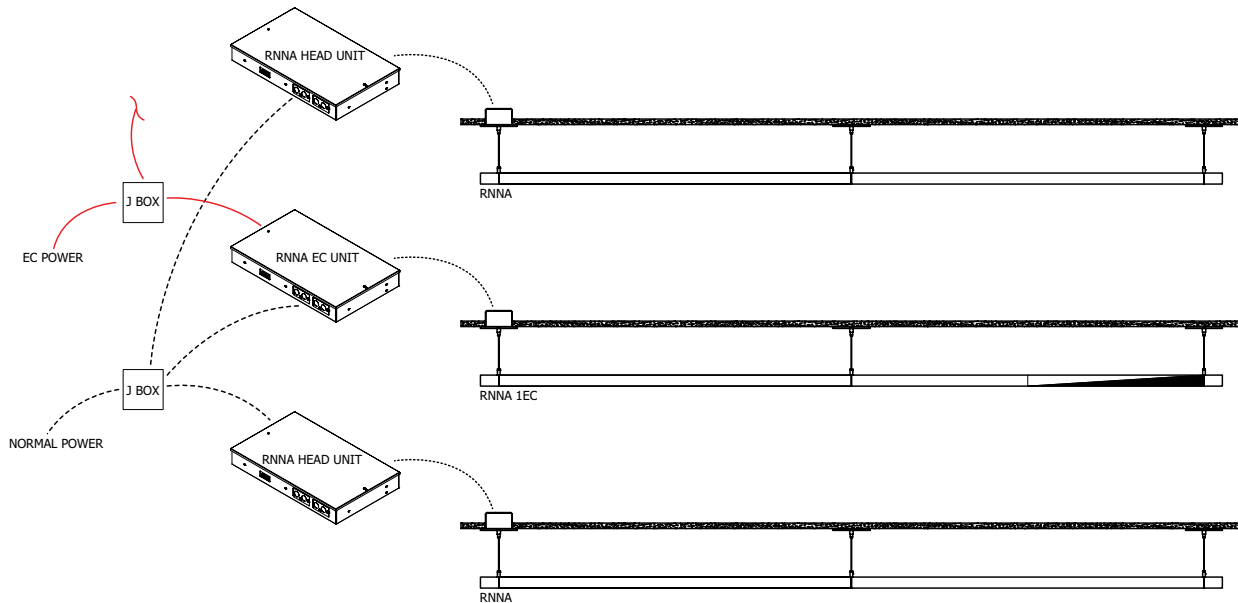


OVERALL DIMENSIONS

1'-8 1/4" x 1'-3/8" x 2 5/8"



TYPICAL BUILDING LAYOUT



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

EMERGENCY OPTIONS

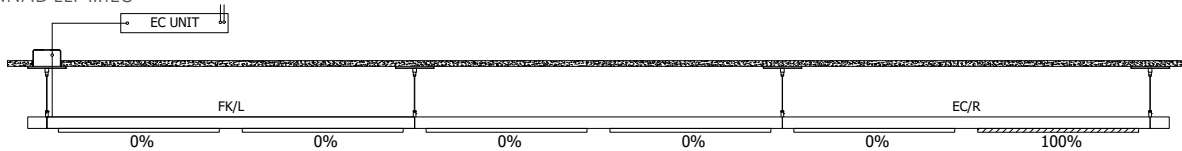
RNNAD

Emergency Options:

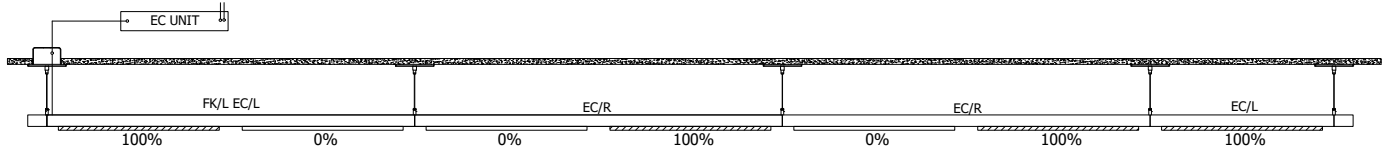
EC circuits default to the right side 4' section, of an 8' fixture (EC/R) and the complete section of a 4' fixture (EC/L). Single EC circuit defaults to the last 4' of the run. Dual EC circuits default to the last 4' of the run and the first 4' of the run. Additional circuits will be added from the end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

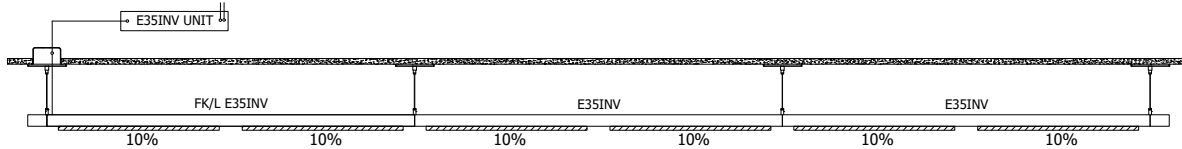
RNNAD LLP ...1EC



RNNAD LLP ...4EC



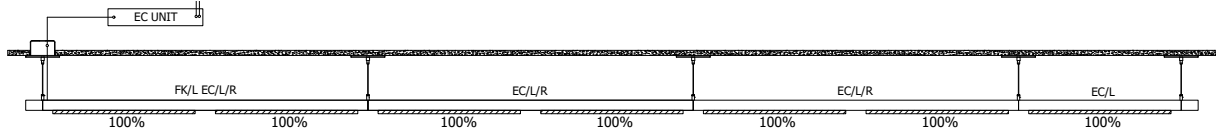
RNNAD LLP ...E35INV



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

EMERGENCY OPTIONS

RNNAD LLP ...WEC



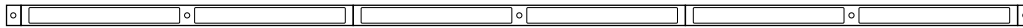
INTEGRATED SENSOR LAYOUT

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



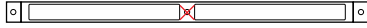
Doesn't work because U4 and U2 sections can't have internal sensors so MSL4 runs can have at most two sensors, one in each end plate

16FT MSL8 run with five sensors - 5VTX15FADC



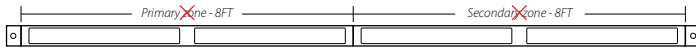
Doesn't work because there are only four available spots for sensors - midspan of each U8 section and one in each end plate

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



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