Peerless®
Lighting for People®

Renna LED Tunable White

RNNADP | LED | Direct | Flat Patterns

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

- Available with 3 different flat transitions

- White, black, painted aluminum or custom color

- Mainstream Dynamic Tunable White with nTune™ Technology

DIMENSIONS

☐ **RNNADP**

1 5/16"

4 3/16"

DETAILS

90FC12 (90 Degree Flat Corner 12in)

90FCC12 (90 Degree Flat Curved Corner 12in)

90FC4 (90 Degree Flat Corner 4in)

COMPANION LUMINAIRE(S)

RNNAID (Indirect/Direct)

RNNAI (Indirect)

RNNAVWW (Vertical Wall Wash)

LUMEN PACKAGES Based on 3500K. Additional color temperatures available.

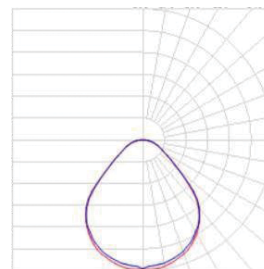| Direct LED Output	300LMF	500LMF	700LMF	900LMF
Direct Delivered Lumens Per Foot	333	502	703	902
Total Delivered Lumens Per Foot	333	502	703	902
Input Watts Per Foot	3.5	5.0	7.1	8.8
Lumens Per Watt	93	98	99	102

STANDARD DISTRIBUTION

100% Down

CUSTOMIZATION

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

MAINSTREAM DYNAMIC
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A+ Capable options indicated by this color background.

MODEL NUMBER

Example: RNNADP FRPP 8FTABCD 90FC12 90CRI TUWH PROR 300LMF SSH DARK NLT 120 F1/48A C202

Luminaire	Pattern Plan		Primary Sides A & C		Secondary Sides B & D		Flat Corner Transition		LED Color Rendering		Dynamic Feature	
RNNADP	**FSPP**	Flat Square pattern	**Rectangle**		**Rectangle**		**90FC4***	90 deg flat corner, 4"	**90CRI**	90+ CRI	**TUWH**	Tunable White
	FRPP	Flat Rectangle pattern	**4FTAC**	4 Foot Section	**4FTBD**	4 Foot Section	**90FC12**	90 deg flat corner, 12"				
			8FTAC	8 Foot Section	**8FTBD**	8 Foot Section	**90FCC12**	90 deg flat curved corner, 12"				
			12FTAC	12 Foot Section	**12FTBD**	12 Foot Section						
			16FTAC	16 Foot Section	**16FTBD**	16 Foot Section	**If F2 mounting is chosen need to also select OJB option*					
			24FTAC	24 Foot Section	**24FTBD**	24 Foot Section						
			Square		*If not shown above indicate luminaire row length in 4' increments. Ex: 28FT*							
			4FTABCD	4 Foot Section								
			8FTABCD	8 Foot Section								
			12FTABDC	12 Foot Section								
			16FTABCD	16 Foot Section								
			24FTABCD	24 Foot Section								
			If not shown above indicate luminaire row length in 4' increments. Ex: 28FT									

Dynamic Range		Direct LED Output		Direct Lens (Light Guide Plate)		Minimum Dimming Level		Control Input		Voltage	
PROR	3000K-5000K	**300LMF**	300 Nominal lumens per foot	**SSH**	SoftShine	**DARK**	Constant current, dimming to < 1%	**NLT***	nLight nTune interface	**120**	120V
		500LMF	500 Nominal lumens per foot			**MIN1**	Constant Current dimming to 1%			**277**	277V
		700LMF	700 Nominal lumens per foot					**Will use logarithmic dimming curve*		**347***	347V
		900LMF	900 Nominal lumens per foot							**MVOLT**	120V-277V
		*Available in 100 lumen increments between min & max LMF								**347V not available with ECOI, EC or WEC*	

Emergency Options		Mounting Type/		Overall Suspension		Color		Options	
(Blank)	None	**F1/***	T-bar ceiling (universal mounting bracket)	**24A**	24" adjustable	**C210**	Textured White	**BLK**	Black cord, cord manager and canopy
_EC	Emergency circuit module	**F1A/***	T-bar ceiling (universal mounting bracket) with integrated J-box	**48A**	48" adjustable	**C202**	Textured Black	**CP**	Chicago Plenum
WEC	Whole run on EC circuit	**F2/****	Hard ceiling (horizontal J-box)	**96A**	96" adjustable	**C110**	Painted Aluminum	**MCS**	Matching Canopy at support for aesthetics
		*F1 & F1A Mount uses standard 3 1/2" canopy on feed and 2" canopy on support		**144A**	144" adjustable	**C099**	Custom color	**OJB**	Offset J-box at feed
		**F2 Mount uses standard 5" canopy on feed and 2" canopy on support		*Measured from ceiling to bottom of luminaire.*		**RALTBD***	RAL Paint Finishes	**SLP***	Slope Ceiling
		***All feed cords, cord managers and canopies are standard white. They are not painted to match fixture color.				**RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RAL BROCHURE for available options*		**When SLP is chosen need to choose F2 mount and OJB*	

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SPECIFICATIONS

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

Corner Transitions
Die-cast aluminum transitions are mechanically attached to the end of the luminaire. We offer a 12 inch 90-degree corner and a 12inch 90-degree curved corner. We also offer a 4 inch 90-degree corner to complete your flat pattern.

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.

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/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.
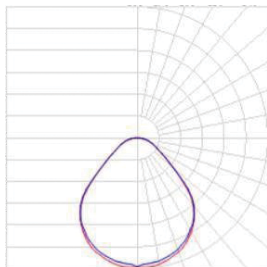
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

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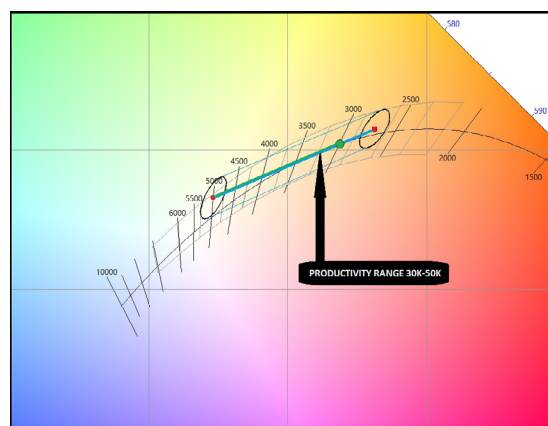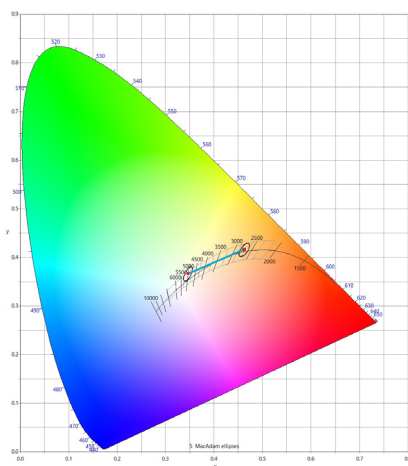
To learn more about A+,
visit www.acuitybrands.com/aplus.

*See ordering tree for details

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Type:

Project:

FIXTURE PERFORMANCE DATA

35K 900LMF

104 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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Type:

Project:

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.*

To see more, see the Hanging Hardware Selection Guide.

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.

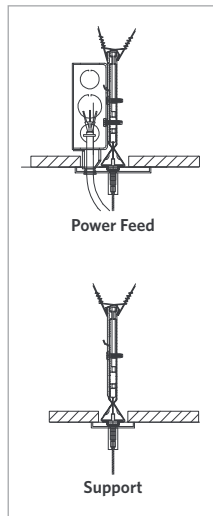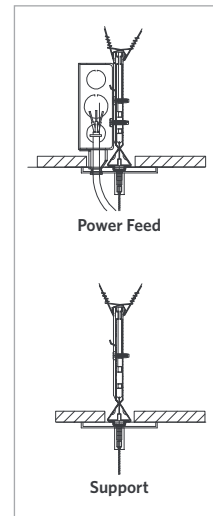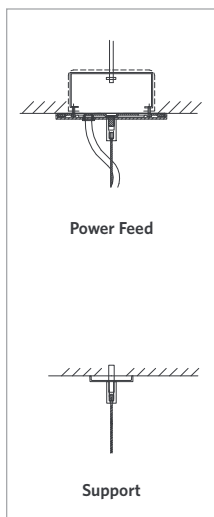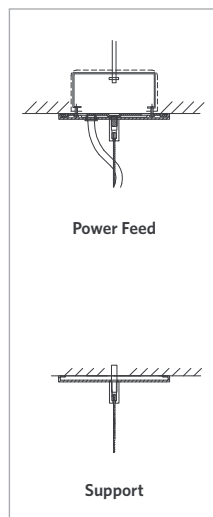☑ **Indicates mounting options available with this luminaire.**

☑ **F1/**

Power Feed

Support

☑ **F1/MCS**

Power Feed

Support

☑ **F1A/**

Power Feed

Support

☑ **F1A/MCS**

Power Feed

Support

☑ **F2/**

Power Feed

Support

☑ **F2/MCS**

Power Feed

Support

☑ **F2/OJB**

Power Feed

Support

☑ **F2/SLP OJB**

Power Feed

Support

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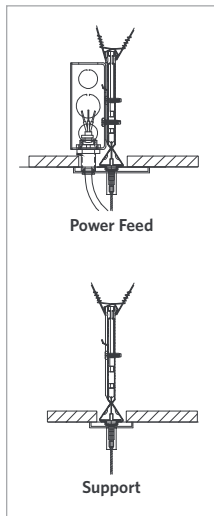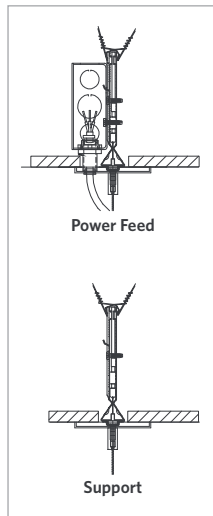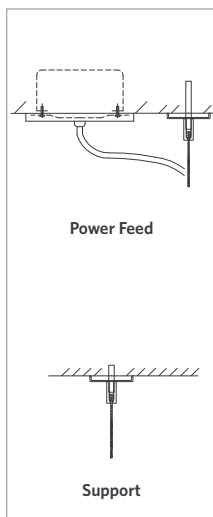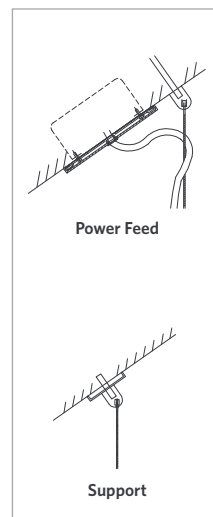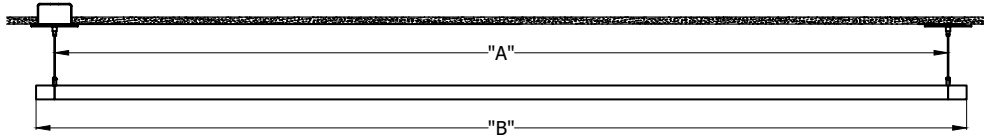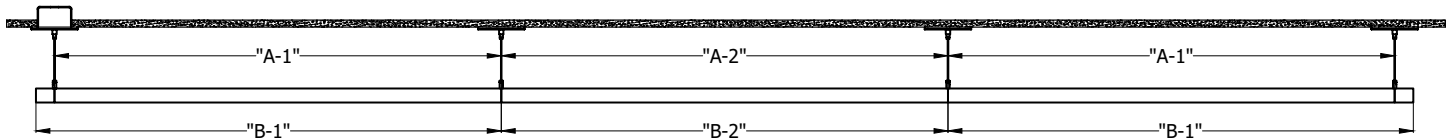
WEIGHTS & SUPPORT SPACING

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

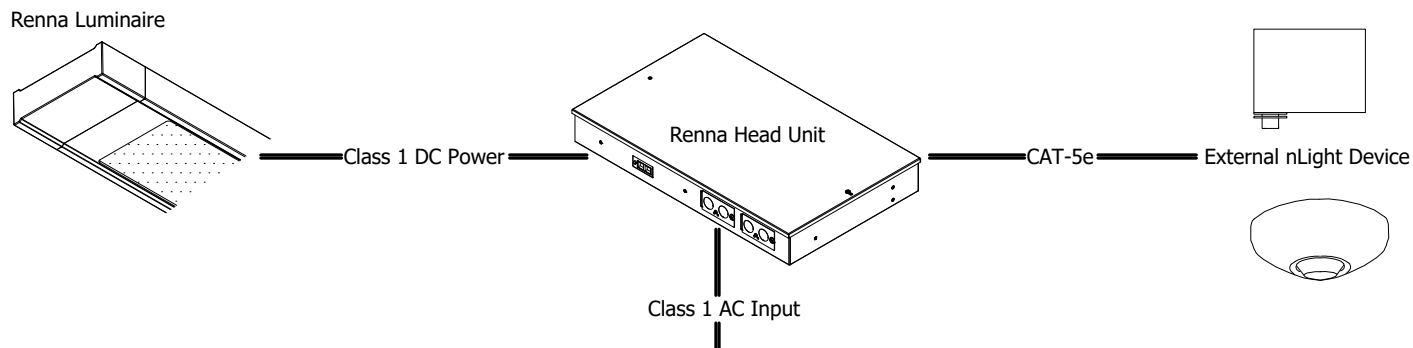| RUN LAYOUT						
ORDERED LENGTH	"A-1" O.C.	"A-2" O.C.	"B-1" SQEP OVERALL	"B-1" SCEP OVERALL	"B-1" REP OVERALL	"B-2" OVERALL	APPROX. WEIGHT
2FT	2'-0"	2'-0"	2'-2"	2'-3"	2'-3"	2'-0"	4LB
4FT	4'-0"	4'-0"	4'-2"	4'-3"	4'-3"	4'-0"	8LB
8FT	8'-0"	8'-0"	8'-2"	8'-3"	8'-3"	8'-0"	16LB

MAINSTREAM DYNAMIC
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INTELLIGENT LUMINAIRE CHARTS

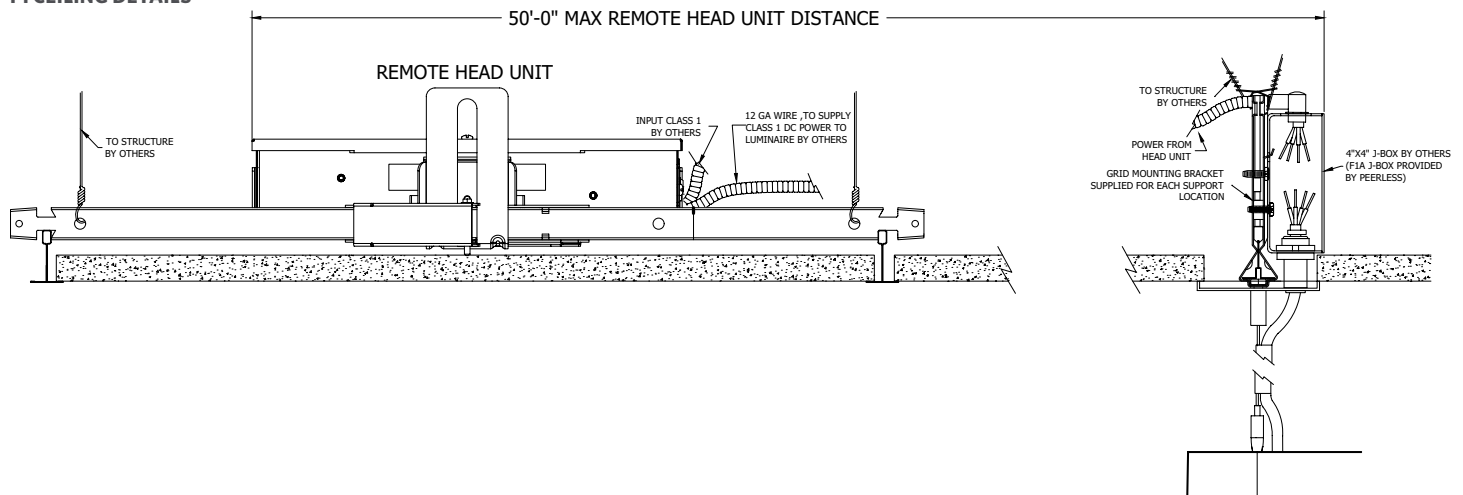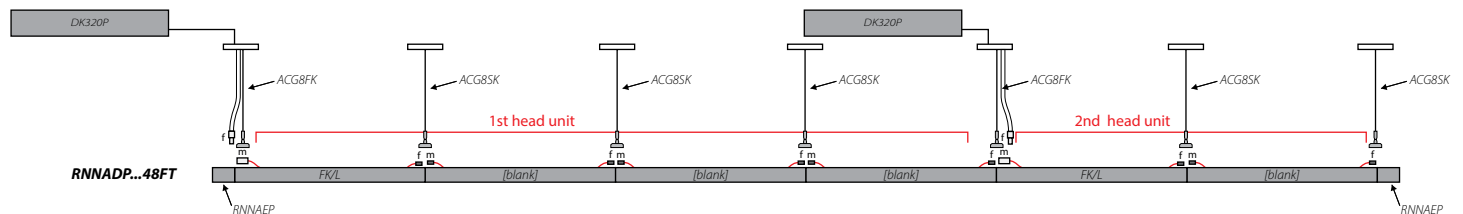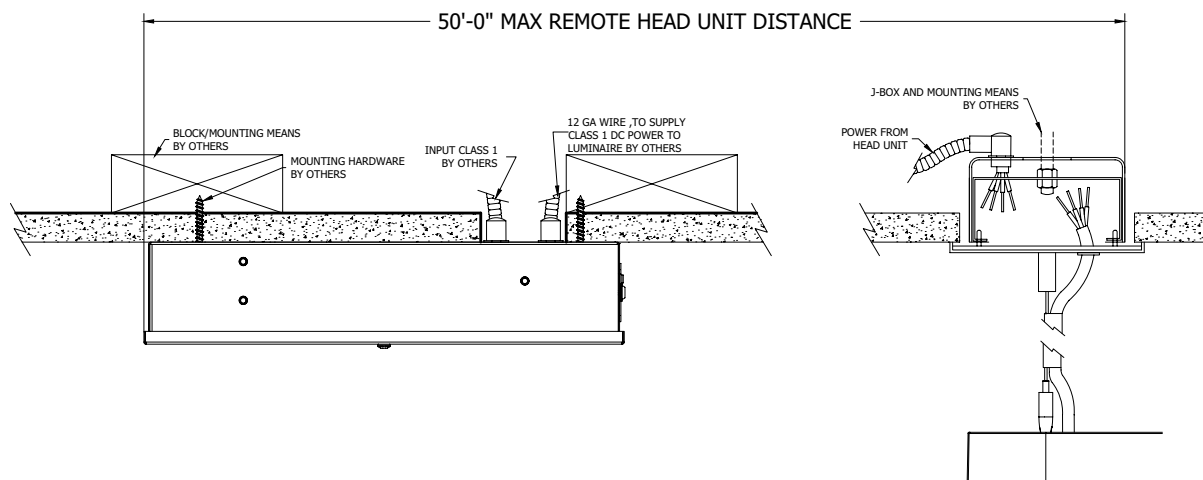|	Choose nomenclature from these columns				
	Minimum Dimming Level	**Control Input**	**Driver**	**Dimming Range**	**Notes**
Driver Configurations	MIN1 +	ZT =	eldoLED DCDC DUALdrive	100 to 1%	Linear Dimming, supplied with leads for two independent zones of 0-10V
	MIN1 +	NLIGHT =	eldoLED DCDC DUALdrive	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

Renna Luminaire

Renna Head Unit

Class 1 DC Power

CAT-5e

External nLight Device

Class 1 AC Input

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Type:

Project:

REMOTE HEAD UNITS

F1 CEILING DETAILS

50'-0" MAX REMOTE HEAD UNIT DISTANCE

REMOTE HEAD UNIT

TO STRUCTURE
BY OTHERS

INPUT CLASS 1
BY OTHERS

12 GA WIRE ,TO SUPPLY
CLASS 1 DC POWER TO
LUMINAIRE BY OTHERS

TO STRUCTURE
BY OTHERS

POWER FROM
HEAD UNIT

GRID MOUNTING BRACKET
SUPPLIED FOR EACH SUPPORT
LOCATION

4"X4" J-BOX BY OTHERS
(F1A J-BOX PROVIDED
BY PEERLESS)

F2 CEILING DETAILS

50'-0" MAX REMOTE HEAD UNIT DISTANCE

BLOCK/MOUNTING MEANS
BY OTHERS

MOUNTING HARDWARE
BY OTHERS

INPUT CLASS 1
BY OTHERS

12 GA WIRE ,TO SUPPLY
CLASS 1 DC POWER TO
LUMINAIRE BY OTHERS

J-BOX AND MOUNTING MEANS
BY OTHERS

POWER FROM
HEAD UNIT

DK320P

ACG8FK

ACG8SK

ACG8SK

DK320P

ACG8SK

ACG8FK

ACG8SK

ACG8SK

1st head unit

2nd head unit

RNNADP...48FT

FK/L

[blank]

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FK/L

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RNNAEP

RNNAEP

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REMOTE HEAD UNITS

F1 HEAD UNIT DETAILS

MOUNTING LOCATIONS

1'-10 $\frac{7}{16}$"

ADJ
1'-6 TO 2'-0"
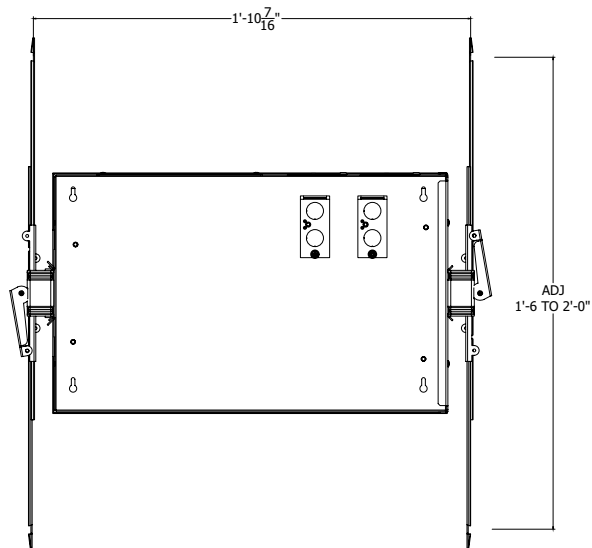
OVERALL DIMENSIONS
2'-2 ¼" x 2'-¾" x 4 ¾"

F2 HEAD UNIT DETAILS

MOUNTING LOCATIONS

1'-6"

9 $\frac{1}{2}$"

OVERALL DIMENSIONS
1'-8 ¼" x 1'-$\frac{3}{8}$" x 2 $\frac{5}{8}$"

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Type:

Project:
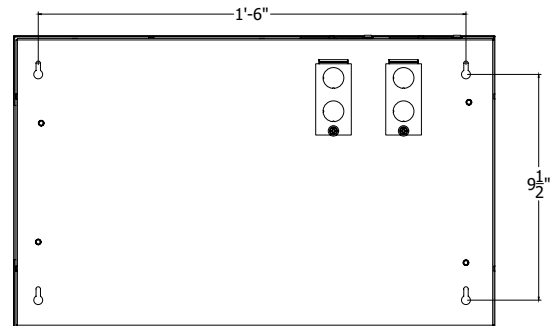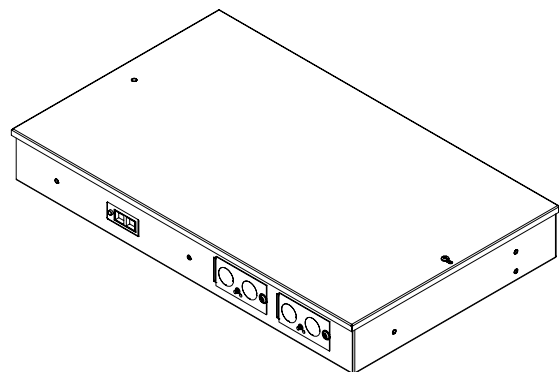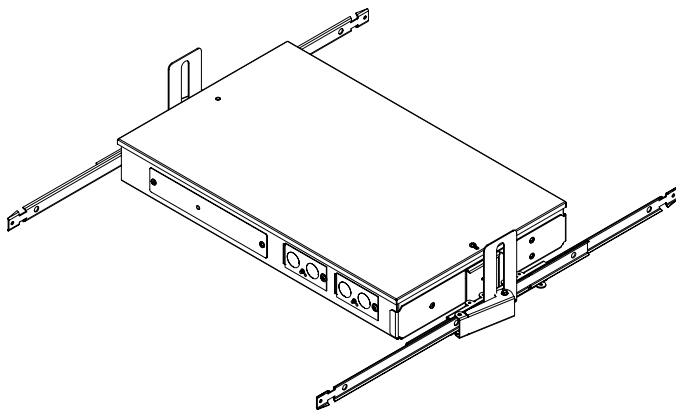
TYPICAL BUILDING LAYOUT
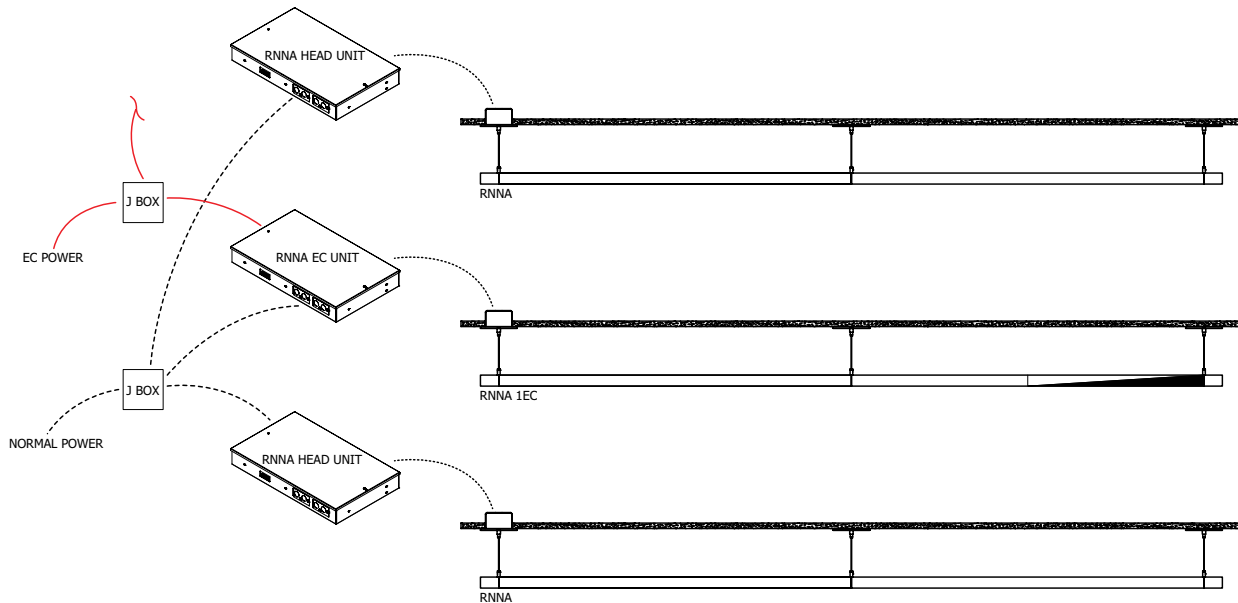
*Emergency power for the Head Unit is not supposed to be daisy chained from another head unit.

EMERGENCY OPTIONS
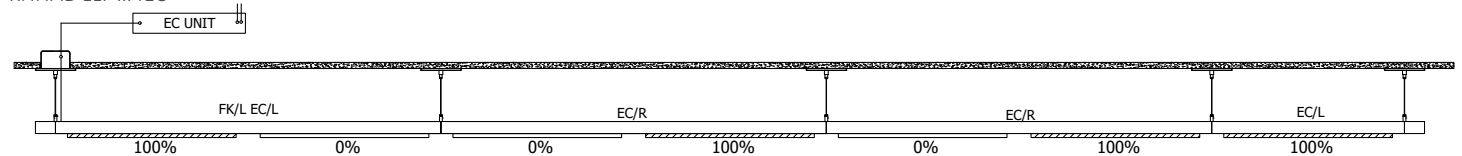
RNNADP

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.
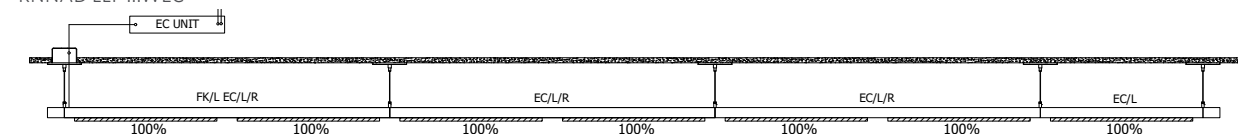
EXAMPLES OF TYPICAL EMERGENCY LAYOUTS.

RNNAD LLP ...1EC
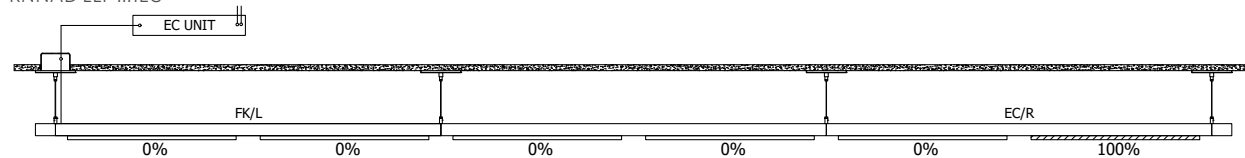
RNNAD LLP ...4EC

RNNAD LLP ...WEC

*During Emergency modes the indirect portion of the luminaire will be disabled.
** Representative of Linear runs only

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PATTERNS

90FC12IN

90FCC12IN

90FC4IN

AcuityBrands.

MAINSTREAM DYNAMIC
BY ACUITY BRANDS

PeerlessLighting.com
1-800-705-SERV (7378) | TechSupport@PeerlessLighting.com