Peerless®
Lighting for People®

Renna LED Tunable White

RNNAIP | LED | Indirect | 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 and indirect distributions available

- Up to 134 lm/W

- High performance batwing distribution using injection molded optic.

- 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

☐ **RNNAIP**

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)

RNNAD (Direct Only)

RNNAVWW (Vertical Wall Wash)

CUSTOMIZATION

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

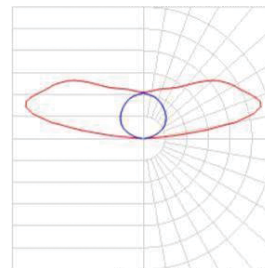## LUMEN PACKAGES Based on 3500K. Additional color temperatures available.

Indirect LED Output	I300LMF	I600 LMF	I900LMF	I1200LMF
Indirect Delivered Lumens Per Foot	300	600	900	1200
Total Delivered Lumens Per Foot	300	600	900	1200
Input Watts Per Foot	2.1	4.5	6.7	8.9
Lumens Per Watt	125	132	134	131

STANDARD DISTRIBUTION

100% Uplight

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Rev. 11/03/21

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Type:

Project:

A+ Capable options indicated by this color background.

MODEL NUMBER   Example: RNNAIP FRPP 8FTABCD 90FC12 90CRI TUWH PROR I300LMF DARK NLT 120 F1/48A C202

Luminaire	Pattern Plan		Primary Sides A & C		Secondary Sides B & D		Flat Corner Transition		LED Color Rendering	
RNNAIP	**FSPP**	Flat Square pattern	**Rectangle**		**Rectangle**		**90FC4***	90 deg flat corner, 4"	**90CRI**	90+ CRI
	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 Feature		Dynamic Range		Indirect LED Output		Minimum Dimming Level		Control Input		Voltage	
TUWH	Tunable White	**PROR**	3000K-5000K	**I300LMF**	300 Nominal lumens per foot	**DARK**	Constant current, dimming to < 1%	**NLT***	nLight nTune interface	**120**	120V
				I600LMF	600 Nominal lumens per foot	**MIN1**	Constant Current dimming to 1%			**277**	277V
				I900LMF	900 Nominal lumens per foot			**Will use logarithmic dimming curve*		**347 ***	347V
				I1200LMF	1200 Nominal lumens per foot					**MVOLT**	120V-277V
				*Available in 100 lumen increments between min & max LMF						**347V not available with ECOI*	

Mounting Type/		Overall Suspension		Color		Options	
F1/*	T-bar ceiling (universal mounting bracket)	**24A**	24" adjustable	**C210**	Textured White	**BLK**	Black cord, cord manager and canopy
F1A/*	T-bar ceiling (universal mounting bracket) with integrated J-box	**48A**	48" adjustable	**C202**	Textured Black	**CP**	Chicago Plenum
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
Injection-molded indirect optic for optimized batwing distribution.

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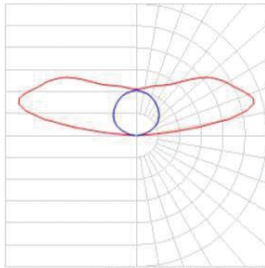
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

- 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.

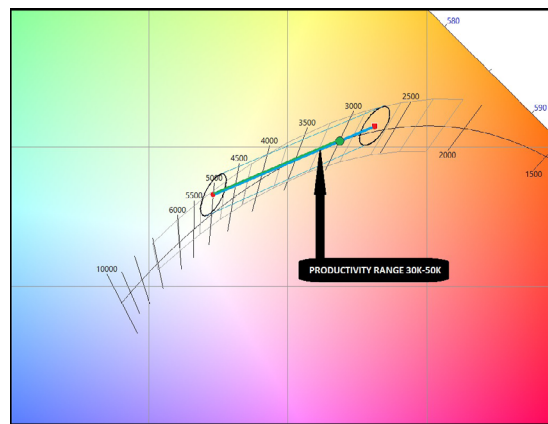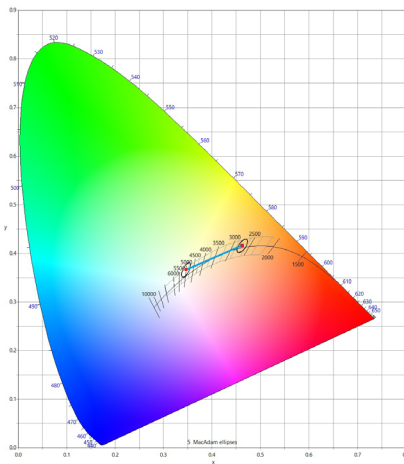*See ordering tree for details

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FIXTURE PERFORMANCE DATA

35K I1200LMF

131 lm/w

1200 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

Indirect Lumen Output			
Lumens/4ft	**I300**	**I600**	**I900**	**I1200**
Max Run Length	32ft	32ft	32ft	28ft

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

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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.

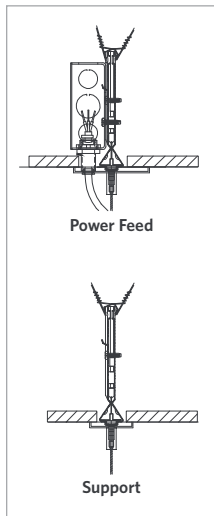**F1A/** For use with most T-Bar and screw slot grid ceilings. Designed for on-grid and off-grid applications. *Comes complete with vertical J-box with built-in wire way. See also CP.*

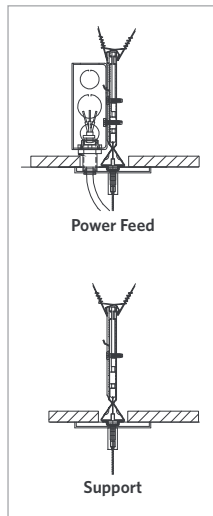To see more, see the Hanging Hardware Selection Guide.

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.

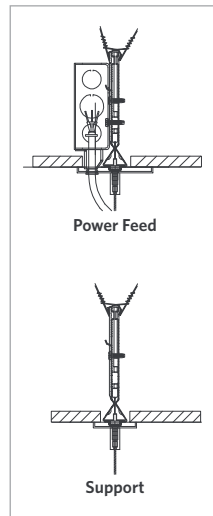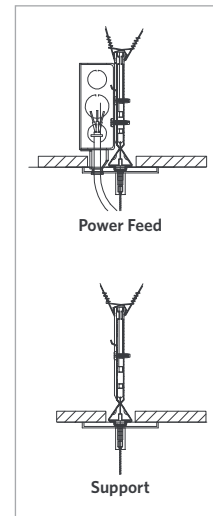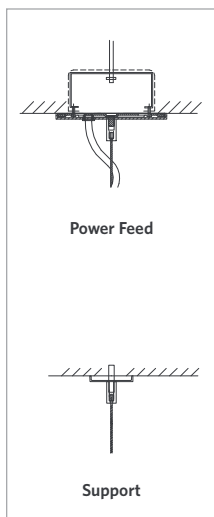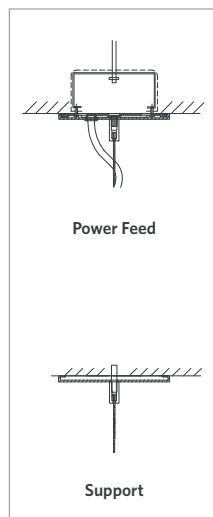☑ **Indicates mounting options available with this luminaire.**

☑ **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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Type:

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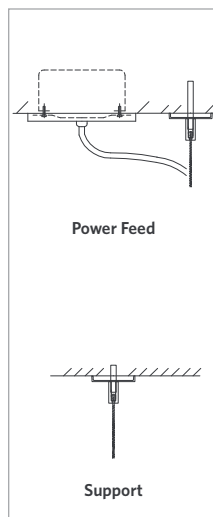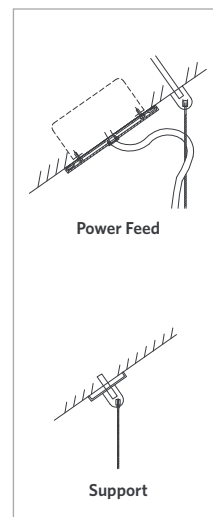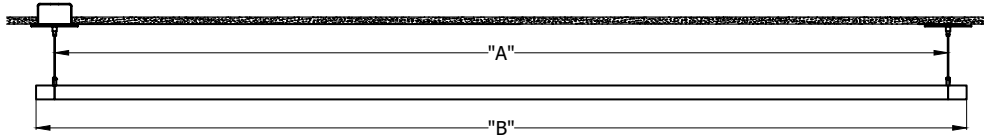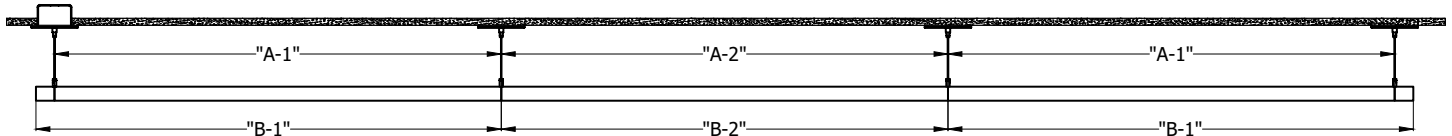
WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown.

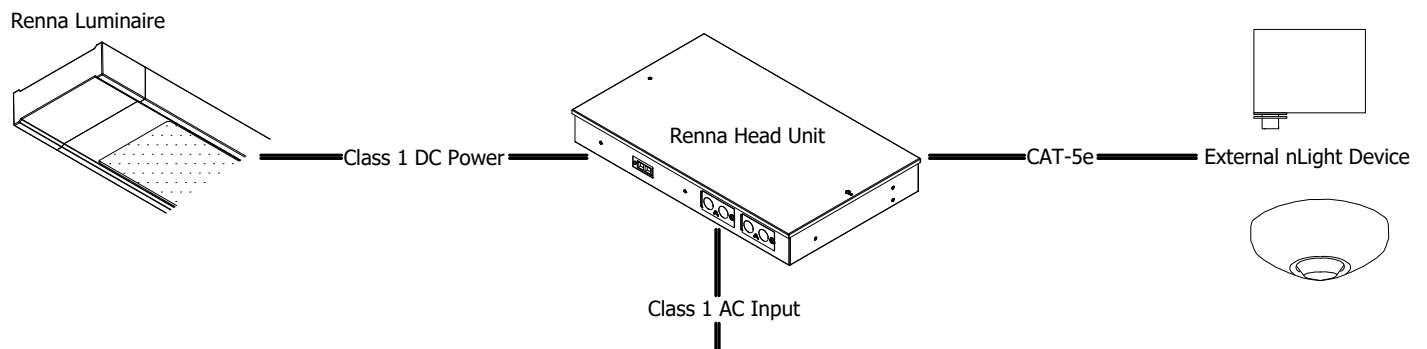| INDIVIDUAL FIXTURES					
ORDERED LENGTH	"A" O.C.	"B" SQEP OVERALL	"B" SCEP OVERALL	"B" REP OVERALL	APPROX. WEIGHT
2FT	2'-0"	2'-4"	2'-6"	2'-6"	4LB
4FT	4'-0"	4'-4"	4'-6"	4'-6"	8LB
8FT	8'-0"	8'-4"	8'-6"	8'-6"	16LB

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

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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

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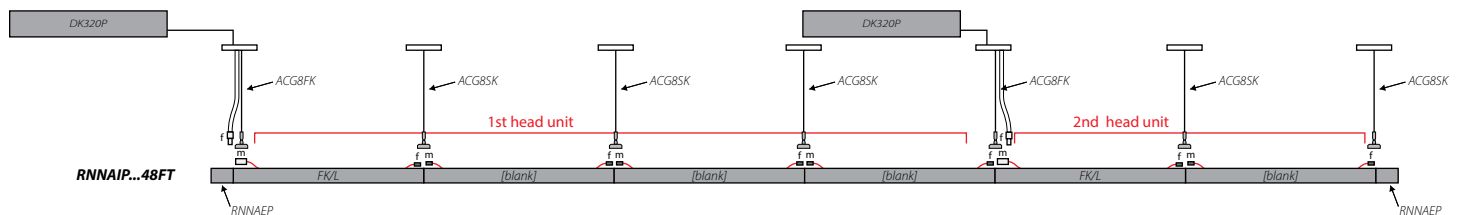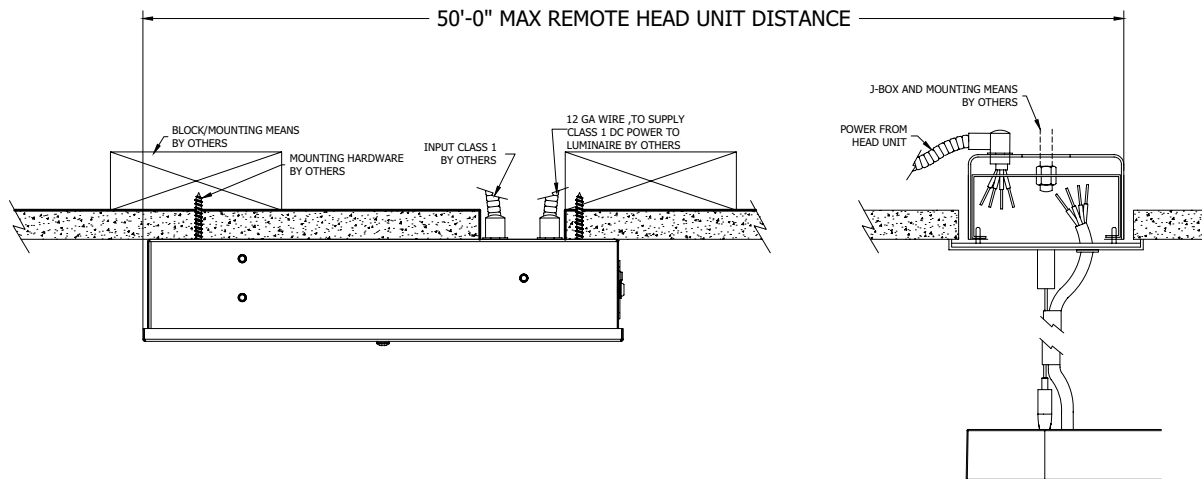
Class 1 DC Power — Renna Head Unit — CAT-5e — External nLight Device

Class 1 AC Input

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Type:

Project:

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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

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

GRID MOUNTING BRACKET
SUPPLIED FOR EACH SUPPORT
LOCATION

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

DK320P

ACG8FK

ACG8SK

ACG8SK

ACG8SK

ACG8FK

ACG8SK

ACG8SK

1st head unit

2nd head unit

RNNAIP...48FT

FK/L

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FK/L

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RNNAEP

RNNAEP

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![Peerless Lighting for People logo]

REMOTE HEAD UNITS

F1 HEAD UNIT DETAILS

MOUNTING LOCATIONS

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

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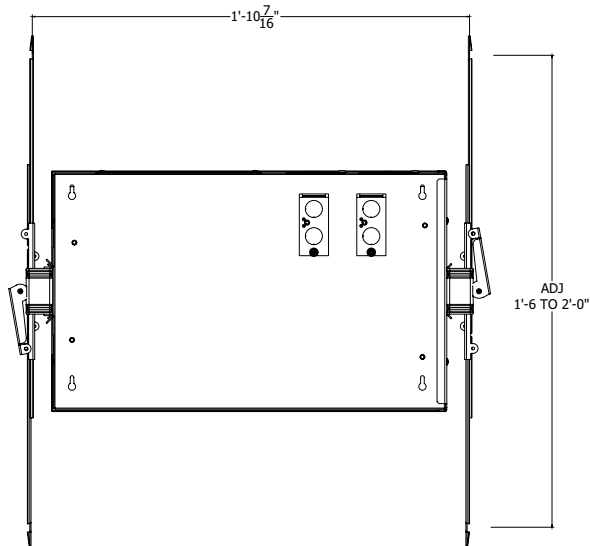
OVERALL DIMENSIONS
2'-2 ¼" x 2'-¾" x 4 ¾"

F2 HEAD UNIT DETAILS

MOUNTING LOCATIONS

1'-6"

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

OVERALL DIMENSIONS
1'-8 ¼" x 1'-³⁄₈" x 2 ⁵⁄₈"

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Type:

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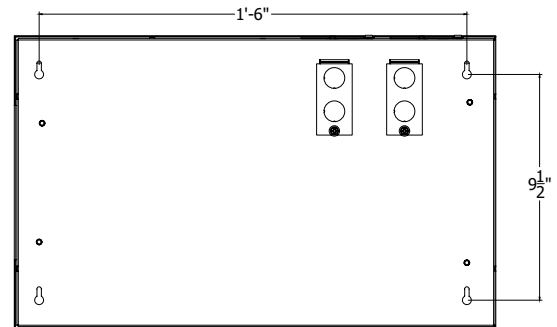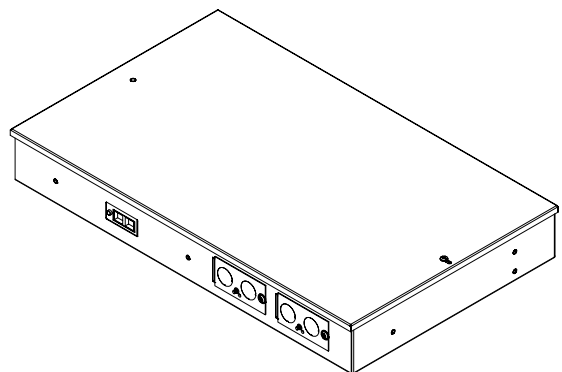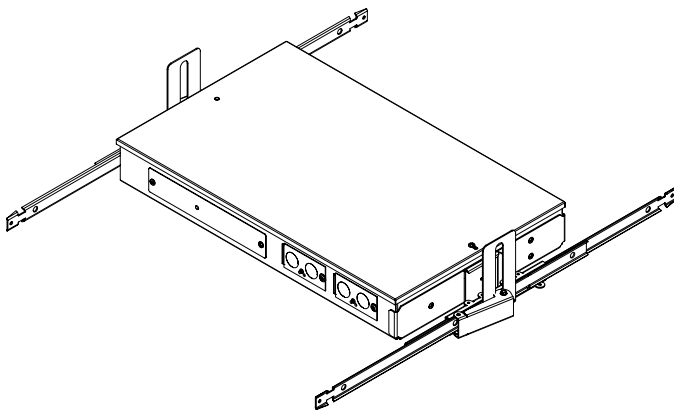
TYPICAL BUILDING LAYOUT
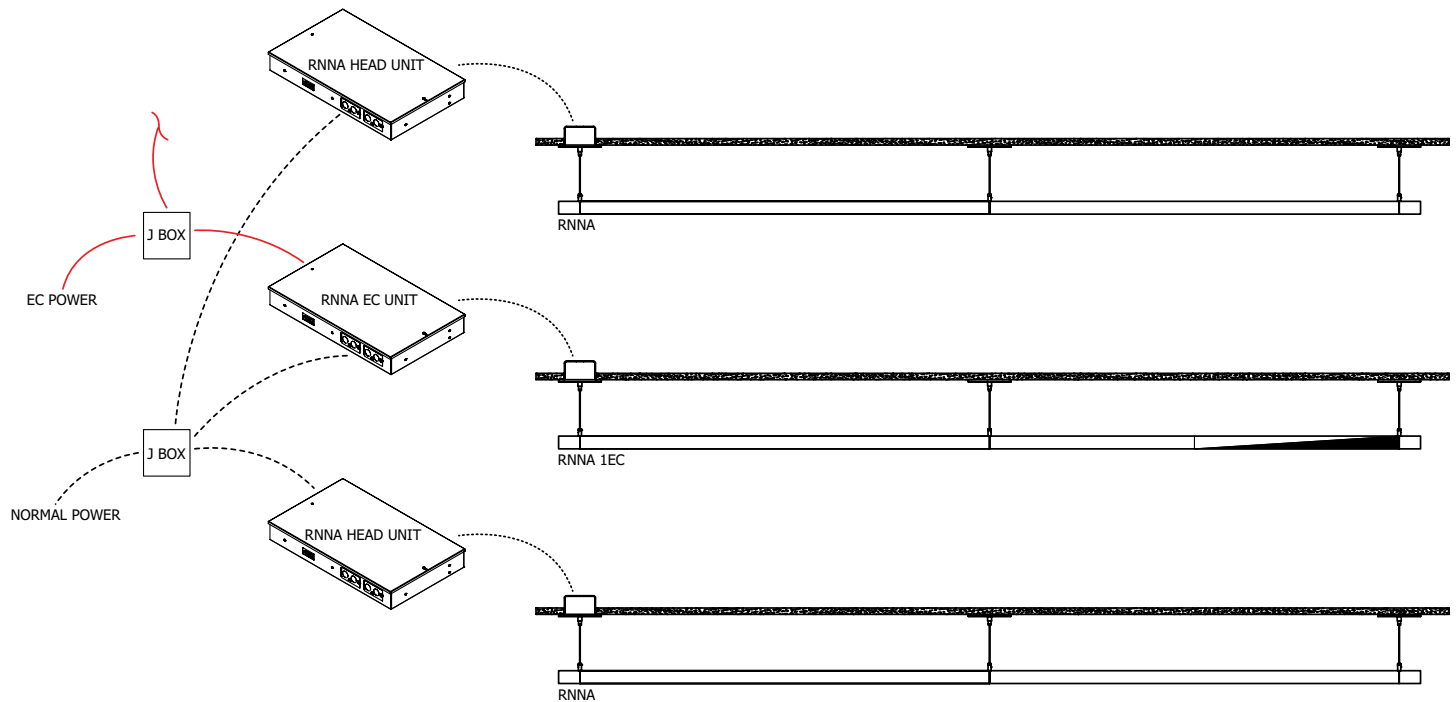
*Emergency power for the Head Unit is not supposed to be daisy chained from another head unit.

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Type:

Project:

PATTERNS

90FC12IN

90FCC12IN

90FC4IN

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