

Submittal Summary



Page #	Brand	Type	Line #	Qty	Catalog Number	Revision #	Revision Date	Revised By
3	Peerless	BE-8	1	9	VMM9 LLP 8FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 E10WLCP SCT F1/12F C041	0		John Yang
5	Peerless	B-8	2	1	VMM9 LLP 8FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041	0		John Yang
7	Peerless	B-36	3	2	VMM9 LLP 36FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041	0		John Yang
9	Peerless	B-24	4	3	VMM9 LLP 24FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041	0		John Yang
11	Peerless	B-56	5	1	VMM9 LLP 56FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041	0		John Yang
13	Peerless	B-48	6	1	VMM9 LLP 48FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041	0		John Yang

Job Name:
Butte County Public Health Department

Order/RFA #:
186655-0

Drawing Type:

Submittal

Prepared For:

16500, INC

Revisions:

☐ Yes

☒ No

Date: 10/14/2021

Prepared By:

John Yang

Sheet:

Summary

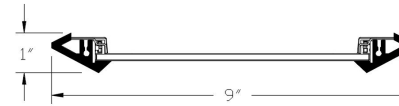
Type BE-8

Series: Vellum LED

VMM9 LLP 8FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 E10WLCP SCT F1/12F C041

Specifications BE-8

- **Series:** Vellum LED
- **Linear Plan:** Linear Longest Possible
- **Total Run Length:** 8ft
- **Max Section Length:** 8' Length
- **LED Color Rendering:** 80CRI
- **LED Color Temperature:** 4000K
- **Indirect/Direct LED Light Output:** 1100 nominal lumens per foot
- **Indirect/Direct Ratio:** 20% up, 80% down
- **Minimum Dimming Level:** Dim to dark, <1% (Log dimming curve)
- **Control Input:** 0-10V
- **Voltage:** 277 volt
- **Wiring Option:** Single circuit
- **Mounting/Overall Suspension:** T-bar ceiling (universal mounting bracket) 12" fixed
- **Finish:** White white (low gloss)



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Lighting for People

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Butte County Public
Health Department

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186655-0

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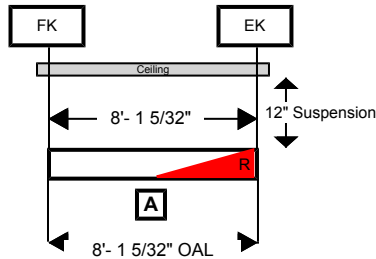
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John Yang

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Page 3

CONFIGURATIONS



Line Number: 1 Type: BE-8 Total Quantity: 9 Sections Each: 1 Overall Actual Length: 8'-1 5/32" Total Sections: 9

Bill of Materials for Ordering: BE-8

Line Type	Qty	Brand	Product Type		Ci Code	Catalog Number
Order	9	Peerless	Master			VMM9 LLP 8FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 E10WLCP SCT F1/12F C041
Shippable	9	Peerless	Fixture Section	A	*2760F8	VMM9 U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 E10WLCP/R SCT F1/12F PWRFE C041
Shippable	9	Peerless	Driver Kit		*249GWN	VMM9DK U8E ID1100LMF DARK ZT 277 SCT F1
Shippable	9	Peerless	Driver Kit		*2516NK	VMM9DK U8E ID1100LMF DARK ZT 277 E10WLCP SCT F1
Shippable	9	Peerless	Feed Kit		*239UMY	VMM9FK F1/12F
Shippable	9	Peerless	Emergency Kit		*255JLY	VMM9FK F1/12F ETS

Remote drivers (power supply) and remote EM battery pack supplied by Acuity, installed by Contractor at job site.

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Butte County Public Health Department

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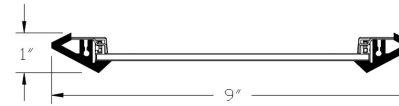
Type B-8

Series: Vellum LED

VMM9 LLP 8FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041

Specifications B-8

- **Series:** Vellum LED
- **Linear Plan:** Linear Longest Possible
- **Total Run Length:** 8ft
- **Max Section Length:** 8' Length
- **LED Color Rendering:** 80CRI
- **LED Color Temperature:** 4000K
- **Indirect/Direct LED Light Output:** 1100 nominal lumens per foot
- **Indirect/Direct Ratio:** 20% up, 80% down
- **Minimum Dimming Level:** Dim to dark, <1% (Log dimming curve)
- **Control Input:** 0-10V
- **Voltage:** 277 volt
- **Wiring Option:** Single circuit
- **Mounting/Overall Suspension:** T-bar ceiling (universal mounting bracket) 12" fixed
- **Finish:** White white (low gloss)



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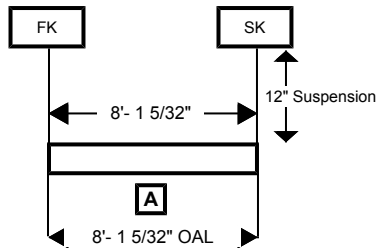
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John Yang

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Page 5

CONFIGURATIONS

FK Feed Kit SK Suspension Kit



Line Number: 2 Type: B-8 Total Quantity: 1 Sections Each: 1 Overall Actual Length: 8'- 1 5/32" Total Sections: 1

Bill of Materials for Ordering: B-8

Line Type	Qty	Brand	Product Type		Ci Code	Catalog Number
Order	1	Peerless	Master			VMM9 LLP 8FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041
Shippable	1	Peerless	Fixture Section	A	*2760F9	VMM9 U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	1	Peerless	Driver Kit		*263ENL	VMM9DK U8 ID1100LMF DARK ZT 277 SCT F1
Shippable	1	Peerless	Feed Kit		*239UMY	VMM9FK F1/12F
Shippable	1	Peerless	Support Kit		*239UN5	VMM9SK F1/12F

Remote drivers (power supply) supplied by Acuity, installed by Contractor at job site.

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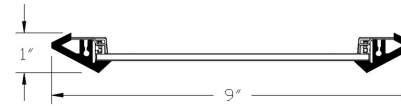
Type B-36

Series: Vellum LED

VMM9 LLP 36FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041

Specifications B-36

- **Series:** Vellum LED
- **Linear Plan:** Linear Longest Possible
- **Total Run Length:** 36ft
- **Max Section Length:** 8' Length
- **LED Color Rendering:** 80CRI
- **LED Color Temperature:** 4000K
- **Indirect/Direct LED Light Output:** 1100 nominal lumens per foot
- **Indirect/Direct Ratio:** 20% up, 80% down
- **Minimum Dimming Level:** Dim to dark, <1% (Log dimming curve)
- **Control Input:** 0-10V
- **Voltage:** 277 volt
- **Wiring Option:** Single circuit
- **Mounting/Overall Suspension:** T-bar ceiling (universal mounting bracket) 12" fixed
- **Finish:** White white (low gloss)



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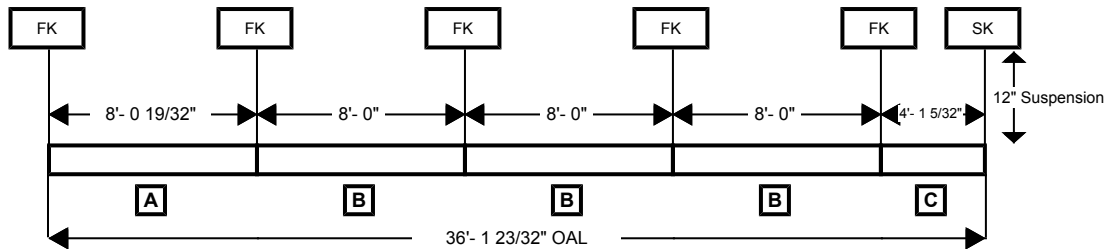
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John Yang

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CONFIGURATIONS

FK Feed Kit SK Suspension Kit



Line Number: 3 Type: B-36 Total Quantity: 2 Sections Each: 5 Overall Actual Length: 36'-1 23/32" Total Sections: 10

Bill of Materials for Ordering: B-36

Line Type	Qty	Brand	Product Type		Ci Code	Catalog Number
Order	2	Peerless	Master			VMM9 LLP 36FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041
Shippable	2	Peerless	Fixture Section	A	*2760FC	VMM9L U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	6	Peerless	Fixture Section	B	*2760FA	VMM9I U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	2	Peerless	Fixture Section	C	*2760FE	VMM9R U4 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	8	Peerless	Driver Kit		*263ENL	VMM9DK U8 ID1100LMF DARK ZT 277 SCT F1
Shippable	2	Peerless	Driver Kit		*263E3N	VMM9DK U4 ID1100LMF DARK ZT 277 SCT F1
Shippable	10	Peerless	Feed Kit		*239UMY	VMM9FK F1/12F
Shippable	2	Peerless	Support Kit		*239UN5	VMM9SK F1/12F

Remote drivers (power supply) supplied by Acuity, installed by Contractor at job site.

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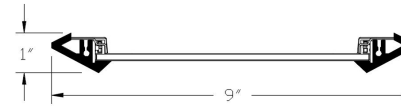
Type B-24

Series: Vellum LED

VMM9 LLP 24FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041

Specifications B-24

- **Series:** Vellum LED
- **Linear Plan:** Linear Longest Possible
- **Total Run Length:** 24ft
- **Max Section Length:** 8' Length
- **LED Color Rendering:** 80CRI
- **LED Color Temperature:** 4000K
- **Indirect/Direct LED Light Output:** 1100 nominal lumens per foot
- **Indirect/Direct Ratio:** 20% up, 80% down
- **Minimum Dimming Level:** Dim to dark, <1% (Log dimming curve)
- **Control Input:** 0-10V
- **Voltage:** 277 volt
- **Wiring Option:** Single circuit
- **Mounting/Overall Suspension:** T-bar ceiling (universal mounting bracket) 12" fixed
- **Finish:** White white (low gloss)



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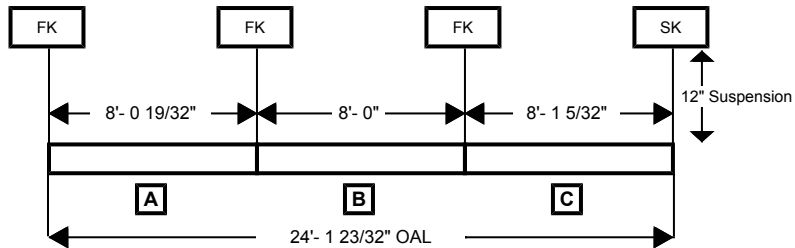
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Page 9

CONFIGURATIONS

FK Feed Kit SK Suspension Kit



Line Number: 4 Type: B-24 Total Quantity: 3 Sections Each: 3 Overall Actual Length: 24'-1 23/32" Total Sections: 9

Bill of Materials for Ordering: B-24

Line Type	Qty	Brand	Product Type		Ci Code	Catalog Number
Order	3	Peerless	Master			VMM9 LLP 24FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041
Shippable	3	Peerless	Fixture Section	A	*2760FC	VMM9L U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	3	Peerless	Fixture Section	B	*2760FA	VMM9I U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	3	Peerless	Fixture Section	C	*2760FF	VMM9R U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	9	Peerless	Driver Kit		*263ENL	VMM9DK U8 ID1100LMF DARK ZT 277 SCT F1
Shippable	9	Peerless	Feed Kit		*239UMY	VMM9FK F1/12F
Shippable	3	Peerless	Support Kit		*239UN5	VMM9SK F1/12F

Remote drivers (power supply) supplied by Acuity, installed by Contractor at job site.

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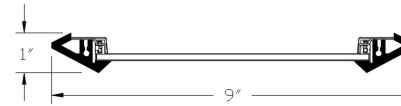
Type B-56

Series: Vellum LED

VMM9 LLP 56FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041

Specifications B-56

- **Series:** Vellum LED
- **Linear Plan:** Linear Longest Possible
- **Total Run Length:** 56ft
- **Max Section Length:** 8' Length
- **LED Color Rendering:** 80CRI
- **LED Color Temperature:** 4000K
- **Indirect/Direct LED Light Output:** 1100 nominal lumens per foot
- **Indirect/Direct Ratio:** 20% up, 80% down
- **Minimum Dimming Level:** Dim to dark, <1% (Log dimming curve)
- **Control Input:** 0-10V
- **Voltage:** 277 volt
- **Wiring Option:** Single circuit
- **Mounting/Overall Suspension:** T-bar ceiling (universal mounting bracket) 12" fixed
- **Finish:** White white (low gloss)



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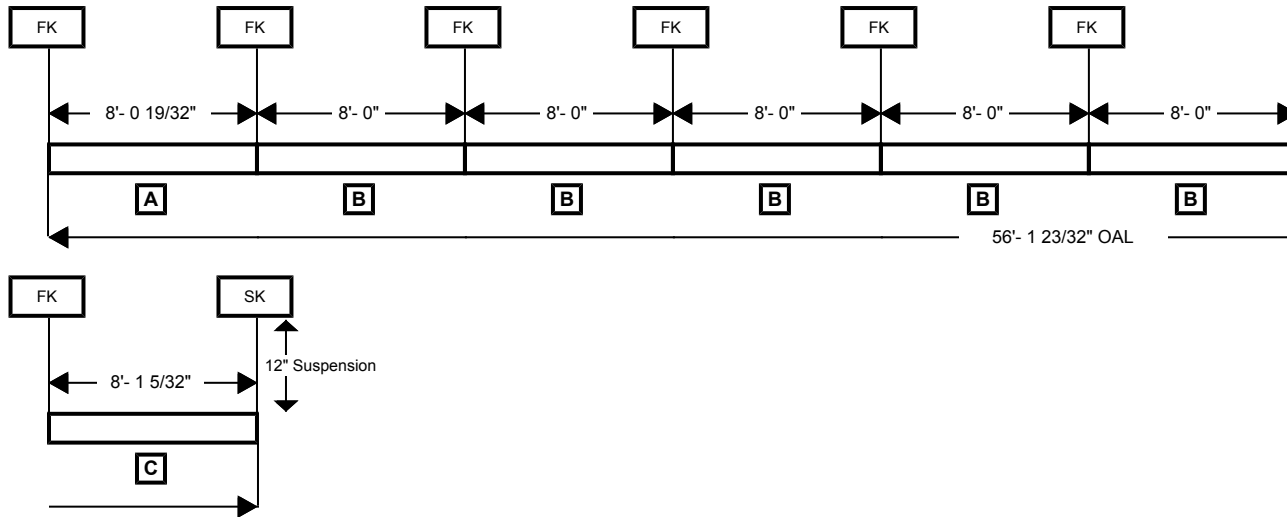
Date: 10/14/2021

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John Yang

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Page 11

CONFIGURATIONS

FK Feed Kit SK Suspension Kit



Line Number: 5 Type: B-56 Total Quantity: 1 Sections Each: 7 Overall Actual Length: 56'- 1 23/32" Total Sections: 7

Bill of Materials for Ordering: B-56

Line Type	Qty	Brand	Product Type		Ci Code	Catalog Number
Order	1	Peerless	Master			VMM9 LLP 56FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041
Shippable	1	Peerless	Fixture Section	A	*2760FC	VMM9L U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	5	Peerless	Fixture Section	B	*2760FA	VMM9I U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	1	Peerless	Fixture Section	C	*2760FF	VMM9R U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	7	Peerless	Driver Kit		*263ENL	VMM9DK U8 ID1100LMF DARK ZT 277 SCT F1
Shippable	7	Peerless	Feed Kit		*239UMY	VMM9FK F1/12F
Shippable	1	Peerless	Support Kit		*239UN5	VMM9SK F1/12F

Remote drivers (power supply) supplied by Acuity, installed by Contractor at job site.

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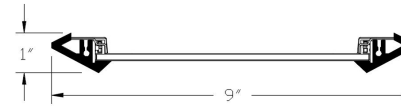
Type B-48

Series: Vellum LED

VMM9 LLP 48FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041

Specifications B-48

- **Series:** Vellum LED
- **Linear Plan:** Linear Longest Possible
- **Total Run Length:** 48ft
- **Max Section Length:** 8' Length
- **LED Color Rendering:** 80CRI
- **LED Color Temperature:** 4000K
- **Indirect/Direct LED Light Output:** 1100 nominal lumens per foot
- **Indirect/Direct Ratio:** 20% up, 80% down
- **Minimum Dimming Level:** Dim to dark, <1% (Log dimming curve)
- **Control Input:** 0-10V
- **Voltage:** 277 volt
- **Wiring Option:** Single circuit
- **Mounting/Overall Suspension:** T-bar ceiling (universal mounting bracket) 12" fixed
- **Finish:** White white (low gloss)



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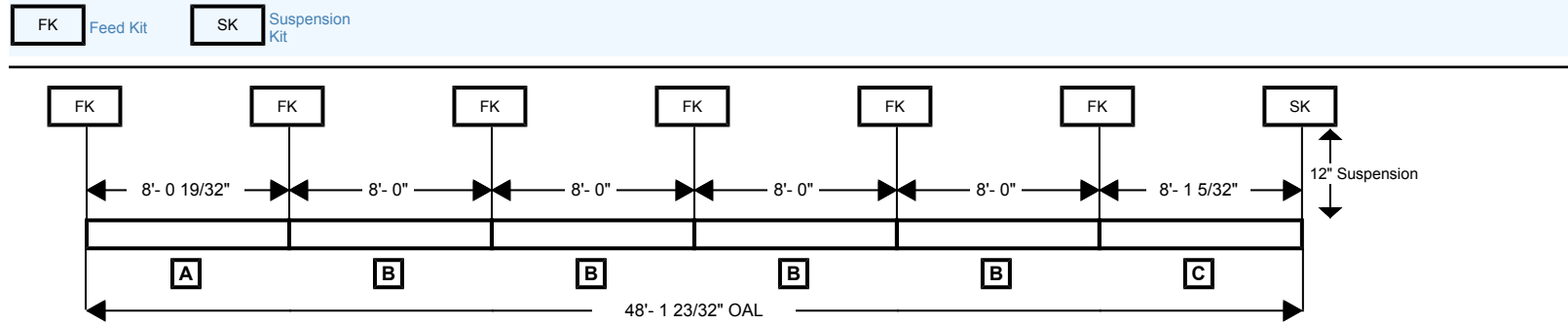
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Date: 10/14/2021

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John Yang

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Page 13

CONFIGURATIONS



Line Number: 6 Type: B-48 Total Quantity: 1 Sections Each: 6 Overall Actual Length: 48'-1 23/32" Total Sections: 6

Bill of Materials for Ordering: B-48

Line Type	Qty	Brand	Product Type		Ci Code	Catalog Number
Order	1	Peerless	Master			VMM9 LLP 48FT MSL8 80CRI 40K ID1100LMF 20/80 DARK ZT 277 SCT F1/12F C041
Shippable	1	Peerless	Fixture Section	A	*2760FC	VMM9L U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	4	Peerless	Fixture Section	B	*2760FA	VMM9I U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	1	Peerless	Fixture Section	C	*2760FF	VMM9R U8 80CRI 40K ID1100LMF 20/80 DARKW ZT 277 SCT F1/12F PWRF C041
Shippable	6	Peerless	Driver Kit		*263ENL	VMM9DK U8 ID1100LMF DARK ZT 277 SCT F1
Shippable	6	Peerless	Feed Kit		*239UMY	VMM9FK F1/12F
Shippable	1	Peerless	Support Kit		*239UN5	VMM9SK F1/12F

Remote drivers (power supply) supplied by Acuity, installed by Contractor at job site.

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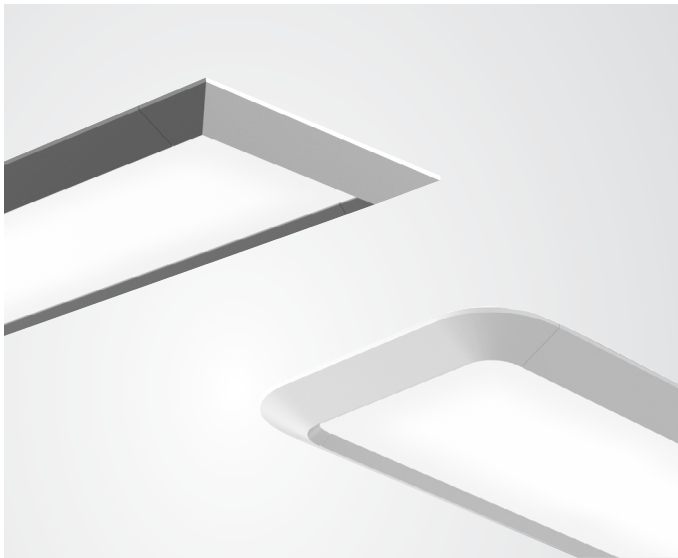
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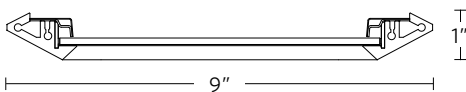
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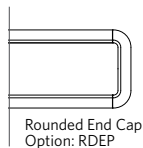
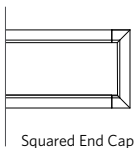


DIMENSIONS

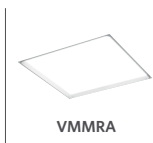
□ VMM9



DETAILS



COMPANION LUMINAIRE(S)



CUSTOMIZATION

Ask us about the following possibilities: Alternate section lengths, alternate distributions, alternate voltages, additional mounting options, custom colors, higher CRI and R9 values and other modifications.

HIGHLIGHTS

- Total System Integration features 5-year limited warranty by Acuity Brands covering all components and construction
- 4 and 8' sections
- Up to 106 lm/W
- Three distributions available: (see page 2)
- High performance batwing distribution using light technology guide
- Softshine®-engineered comfort optics
- Flicker-free dimming to dark (0.1%) powered by eldoLED® driver
- Integrated nLight® control module for system networking (optional)
- Integrated sensor for daylight dimming and/or occupancy detection (optional)
- Squared or rounded end caps
- White, black, painted aluminum or custom color



LUMEN PACKAGES

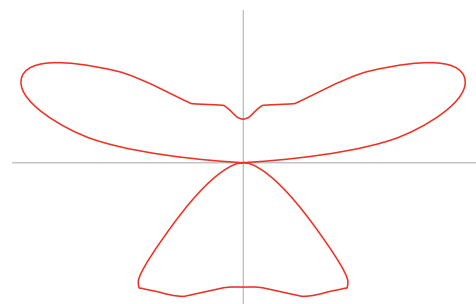
Based on 3500K. Additional color temperatures available.

Indirect /Direct LED Output	ID1100LMF	ID1350LMF
Delivered Lumens Per Foot	1095	1370
Input Watts Per Foot	9.5	12.8
Lumens Per Watt	115	106

*per 4' section

STANDARD DISTRIBUTION

60% Up | 40% Down



SPECIFICATIONS

Housing

Extruded aluminum housing.

End Caps

Die-cast aluminum end caps are mechanically attached with no exposed fasteners. Squared end caps standard. For rounded end caps, choose option RDEP.

Color

Color for housing and end caps is white, black or painted aluminum. Consult factory for custom colors.

Luminaire Length

4' and 8' lengths in a single section for nominal suspension spacing of 4' and 8'. For total length, add 2 1/8" for each end cap. Longer rows are comprised of starter, joiner and end sections.

Source

Two LED lumen packages and three available color temperature options (3000K, 3500K and 4000K) — all within 2.5 MacAdam ellipses.

Optics

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

Embedded Sensor

Optional sensor is embedded directly into the lens surface following Peerless' proprietary SubtleView Integration™ process.

Remote Dimming Driver

Remote eldoLED® driver (see page 3) provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Syncing for controls: 2mA max. THD: < 20%. Insignificant inrush current at 120 and 277VAC. FCC Class A and B tested for EMI and RFI.

When Control Input of 0-10V is specified driver will be set for linear dimming curve, if nLIGHT is specified driver will be set for logarithmic dimming curve.

Controls and System Networking Options

For wired networking via Cat-5e, choose an integrated nLight® module. For daylight dimming and/or dual technology occupancy detection, see Integrated Sensor Layout Page for more details.

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. Specify 120V, 277V or 347V. Pre-wired with 16AWG fixture wire. For special circuiting or wire gauge, consult factory. Plug-in electrical connectors included.

Environment

Suitable for damp location.

Validation

CSA/CUS listed. CSA tested to UL 1598 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.

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



A+ Capable options indicated
by this color background.

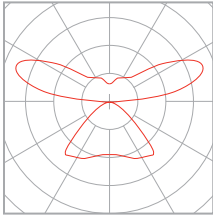
MODEL NUMBER Example: VMM9 LLP 16FT MSL8 80CRI 35K ID1100LMF 60/40 DARK ZT SCT F1/24F C110

Luminaire	Linear Length Plan	Total Run Length	Maximum Section Length	LED Color Rendering	LED Color Temperature	Indirect/Direct LED Output
VMM9	LLP Linear longest possible LSL Longest same length	__FT <i>Indicate Luminaire Row Length in 4' increments. Ex: 12FT</i>	MSL4 4' Section(s) MSL8 8' Section(s)	80CRI 80+ CRI 90CRI* 90+ CRI <i>*Longer lead times-consult factory</i>	30K 3000K 35K 3500K 40K 4000K	ID1100LMF 1100 Nominal lumens per foot ID1350LMF 1350 Nominal lumens per foot

Indirect/Direct Ratio	Minimum Dimming Level	Control Input	Voltage	Wiring Option	Emergency Options
60/40 Std. 60% up; 40% down 20/80 20% up; 80% down 0/100 0% up; 100% down <i>Nominal Distribution. Refer to photometric tests for exact.</i>	DARK Constant current, dimming to < 1%	ZT* 0-10V nLIGHT** nLight enabled DALI*** DALI <i>*0-10V will use linear dimming curve ** Will use logarithmic dimming curve ***Not available with sensors ***Will use logarithmic dimming curve</i>	120 120V 277 277V 347 347V	SCT Single circuit	(Blank) None 1EC (1) Emergency circuit module 2EC (2) Emergency circuit module __EC Emergency circuit modules __E10WLCPP 10 Watt battery pack, constant power with self diagnostics. CEC Certified <i>Emergency type is installed in last 4' of luminaire sections. Separate feed required. Not available for CSA or 347V</i>

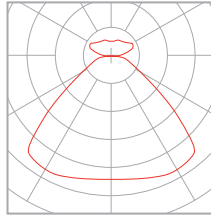
Primary Sensor	Secondary Sensor	Mounting Type/	Overall Suspension	Color	Options
(blank) No factory-installed, integrated sensor PDT_ Dual technology occupancy sensor. PIR & microphonics sensor ADC_ Daylight Dimming Sensor APD_ Dual technology PDT and ADC sensor <i>*Available with ZT or nLight only</i>	(blank) No factory-installed, integrated sensor SPDT_ Dual technology occupancy sensor. PIR & microphonics sensor SADC_ Daylight Dimming Sensor SAPD_ Dual technology PDT and ADC sensor <i>*Available with ZT or nLight only</i>	F1/ T-bar ceiling (universal mounting bracket) F2/* Hard ceiling (horizontal J-box) <i>* F2 not available with E10W</i>	12F 12" fixed 18F 18" fixed 24F 24" fixed 36F 36" fixed 48F 48" fixed 72F 72" fixed XX xx" <i>Measured from ceiling to bottom of luminaire.</i>	C041 White white (low gloss) C110 Painted Aluminum (low gloss) C201 Black (low gloss) C099 Custom color	CSA Manufactured to Canadian Standards DU* Dust cover GLR Fast blow GMF Slow blow RDEP Rounded end cap <i>*DU is not available with 0/100 VDR</i>

PHOTOMETRICS



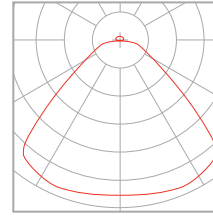
ID1350LMF 80CRI 35K
106 lm/W
5477 delivered lumens
per 4' section

60% up / 40% down



ID1350LMF 20/80 80CRI 35K
103 lm/W
5285 delivered lumens
per 4' section

20% up / 80% down



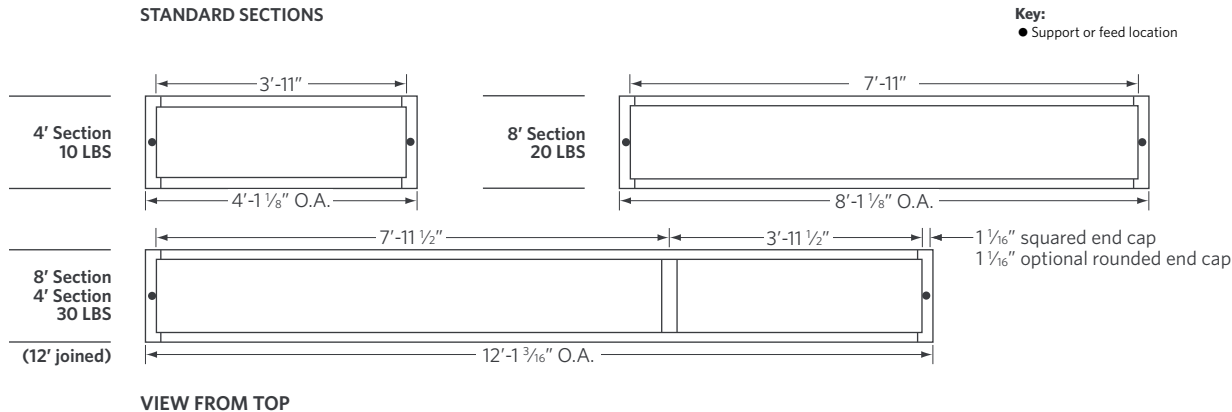
ID1350LMF 0/100 80CRI 35K
100 lm/W
5167 delivered lumens
per 4' section

4% up / 96% down

WEIGHTS & SUPPORT SPACING

Suspension spacing equals section length. Default location shown. Consult factory for stem mounting suspension spacing and alternate locations.

STANDARD SECTIONS



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).

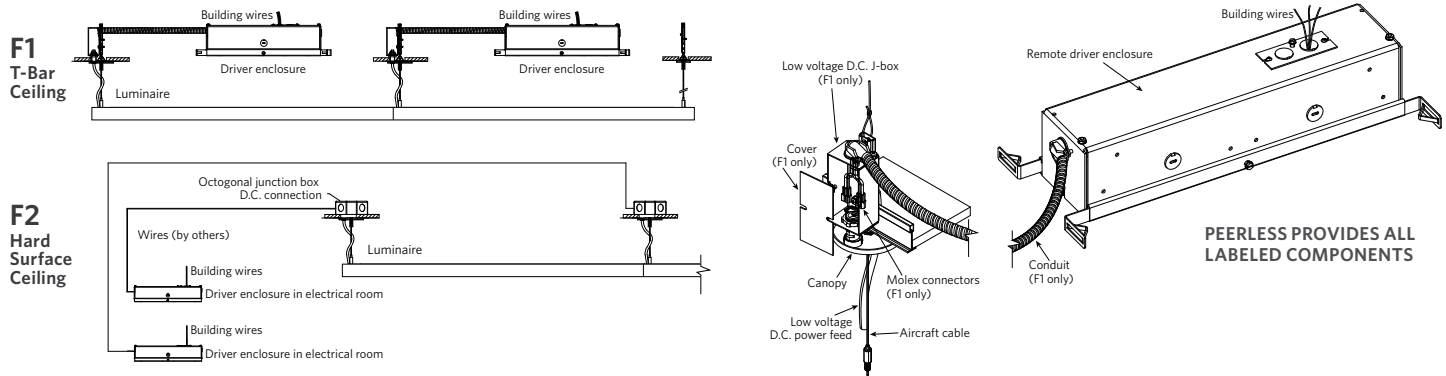
LSL	4FT	4FT	4FT	4FT	4FT
------------	-----	-----	-----	-----	-----

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	4FT
------------	------	------	-----

REMOTE DRIVER MOUNTING



The driver is housed in a remote-mounted, aluminum enclosure. In T-bar ceiling installations, the driver enclosure attaches to the grid bars with provided hanging brackets and clips. For hard ceiling installations, the driver enclosure resides inside an electrical room and can be mounted to a rack or wall with screws (by others), if necessary.

NOTE: Every 4' and 8' luminaire section comes with (1) driver enclosure and each section has (1) low voltage D.C. power feed leading out of the luminaire. See installation instructions for further details.

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

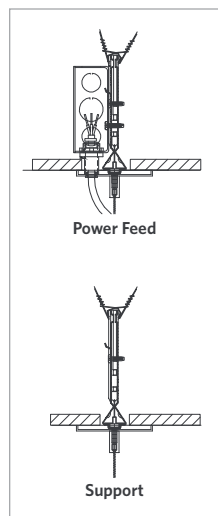
Mounting Type

- 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.

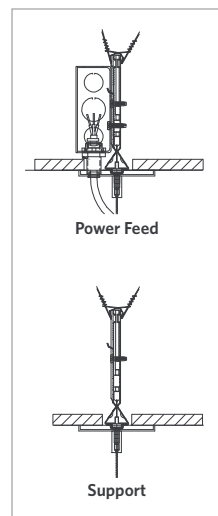
For more detailed mounting drawings and information, see PeerlessLighting.com/MountingOptions

☒ Indicates mounting options available with this luminaire.

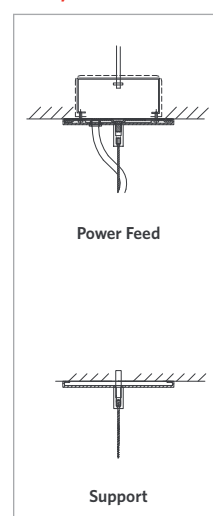
☒ F1/



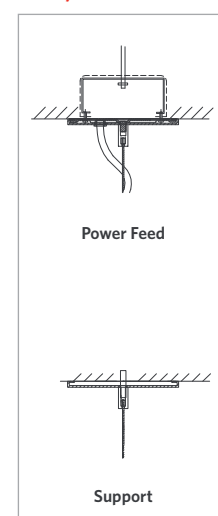
☐ F1/MCS



☒ F2/



☐ F2/MCS



For more information about sensor and networking options, download the controls guide at PeerlessLighting.com/ControlsGuide

INTEGRATED SENSOR OPTIONS

Control Input	Integrated Sensor	Daylight Dimming	Daylight Dimming and/or Occupancy Detection	nLight Wired Networking	Link to Spec Sheet
NLIGHT	ADC	X		X	nES-ADCX
NLIGHT	PDT		X	X	nES-7
ZT	ADC	X			nES-ADCX
ZT	PDT		X		nES-7

Daylight harvesting deactivated by default and field programmed per sequence of operations for PDT sensor options.

Luminaires specified with nLight system networking ship with one RJ-45 connector integrated into the luminaire, 10' of Cat-5e cable and a splitter to control the entire luminaire row (depending on wattage/voltage limitations). For multiple zones, please contact TechSupport@PeerlessLighting.com.



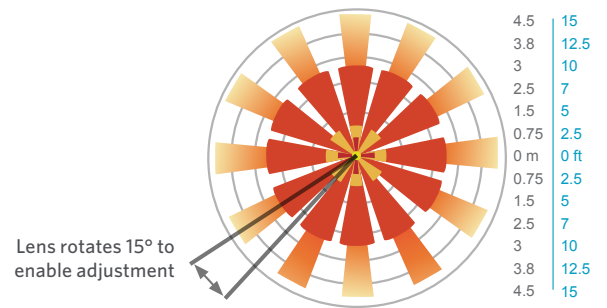
OCCUPANCY DETECTION COVERAGE

At the 7.5 ft (2.9 m) hanging height of a typical pendant mount fixture the sensor provides 10 ft (3.05 m) radial detection of small motion. At a 9 ft (2.74 m) hanging height the radius is 12 ft (3.66 m) for small motion.

Adequate for walking motion detection from mounting heights between 7.5 ft (2.29 m) and 20 ft (6.10 m).

Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor.

Initial detection of walking motion into long coverage segment will occur at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m). Lens assembly rotates 15° to enable adjustment in order to line up long segments.



COMPATIBLE nLIGHT COMPONENTS WITH INTEGRATED CONTROLS



nPODM DX WH nPODM 2P DX WH nPODM 4P DX WH

SensorSwitch.com/DataSheets/nPODM.pdf



nPODM 2L WH

SensorSwitch.com/DataSheets/nPODM-xL.pdf



nPOD GFX WH

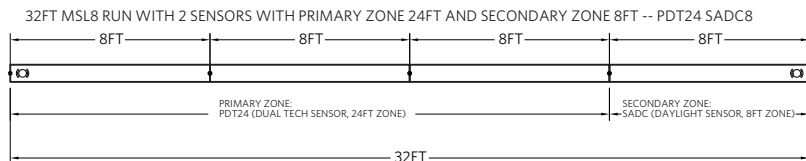
SensorSwitch.com/DataSheets/nPOD-GFX.pdf

eldoLED COMPATIBILITY Additional control options with eldoLED 0-10V driver(s).

PeerlessLighting.com/eldoLED-compatibility

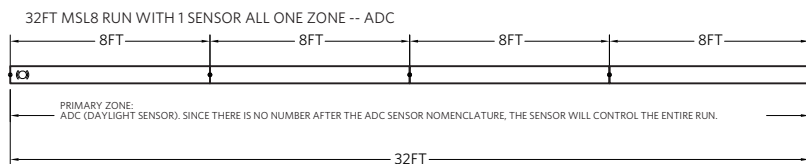
INTEGRATED SENSOR LAYOUT

CORRECT:

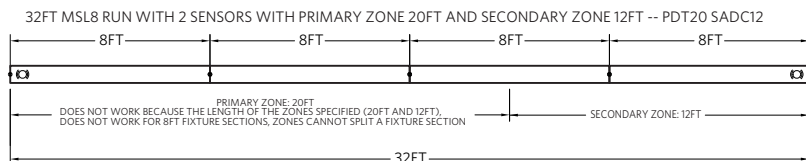
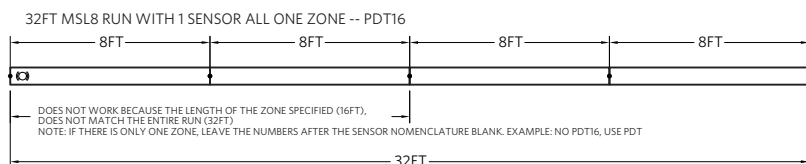


Notes:

- Only one sensor per zone
- At the most, the entire run can only have 2 sensors (thus 2 sensors zones at the most)
- Sensor zone can not split fixture sections
- No overlapping zones
- One nLight or NLTAIR2 device per zone or per sensor, for multiple zones without sensors contact factory



INCORRECT:



General Installation Instructions

LED

#

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions and other hazards, please read all warnings and instructions included with and on the luminaire box and all luminaire labels.
- Before installing, servicing or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular luminaire maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit www.epa.gov.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc. a parent company of Peerless Lighting.



WARNING RISK OF ELECTRIC SHOCK

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.
- ✓ To prevent luminaire row from over-current: By adding the input current of each luminaire section marked on the luminaire, the total current per power feed must not exceed the maximum line wire amperage marked on the luminaire and the power feed cord/wire amperage rating whichever the least.



WARNING RISK OF BURN

- ✓ Allow lamp/luminaire to cool before handling. Do not touch enclosure or light source.
- ✓ Do not exceed maximum wattage marked on luminaire label.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.

Part Number: PIN004102 Description: "INSTR, IMPORTANT SAFETY LED" Revision: C Effective Date: 07/2012 ECO3665 page 1 of 2

#

General Installation Instructions

LED

#



CAUTION RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.



CAUTION RISK OF FIRE

- ✓ Keep combustible and other materials that can burn away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



CAUTION RISK OF PRODUCT DAMAGE

- ✓ Never connect components under load.
- ✓ Do not mount or support these luminaires in a manner that can cut the outer jacket or damage wire insulation.
- ✓ Unless individual product specifications deem otherwise: Never connect an LED product directly to a dimmer packs, occupancy sensors, timing devices, or other related control devices. LED luminaires must be powered directly off a switched circuit.
- ✓ Unless individual product specifications deem otherwise: Do not restrict luminaire ventilation. Allow for some volume of airspace around luminaire. Avoid covering LED luminaires with insulation, foam or other material that will prevent convection or conduction cooling.
- ✓ Unless individual product specifications deem otherwise: Do not exceed luminaire's maximum ambient temperature.
- ✓ Only use luminaire in its intended location.
- ✓ LED products are polarity sensitive. Ensure proper polarity before installation.
- ✓ Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components as this can cause ESD, shorten lamp life or alter performance.
- ✓ Some components inside the luminaire may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact a Peerless Lighting representative for assistance.
- ✓ Always read the fixtures complete installation instructions prior to installation for any additional luminaire specific warnings.

Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.

Failure to follow any of these instructions could void product warranties.

For a complete listing of product Terms and Conditions, please visit www.PeerlessLighting.com.

Peerless Lighting, an Acuity Brands Company, assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

Part Number: PIN004102 Description: "INSTR, IMPORTANT SAFETY LED" Revision: C Effective Date: 07/2012 ECO3665 Page 2 of 2

#

Vellum Suspended®

INSTALLATION INSTRUCTIONS

PIN006400 REV. C 8/2017 ECO3816

These installation instructions are used for installing the following luminaires and kits:

Luminaire	Support Location	Cable Mounting Kit	VDR Kit
VMM9 (suspended)	Normal Power Feed Non-Power Feed	VMM9FK VMM9SK	VMM9VDR

WARNING: Please read the “important safety instructions” prior to installation of this product. The mounting instructions can be found inside the mounting kits or downloaded from PeerlessLighting.com.

A)	Identification of Suspended VMM9 Luminaire.....	Page 1
B)	Overview of VMM9 Installation.....	Page 2
C)	Remote Driver Installation for Grid Ceilings (F1).....	Page 2
D)	Luminaire Installation for Grid Ceilings (F1).....	Page 3
E)	Installation for Options (Sensor, VDR, Dust Cover).....	Page 4
F)	Remote Driver Installation for Hard Surface Ceilings (F2).....	Page 4
G)	Luminaire Installation for Hard Surface Ceilings (F2).....	Page 5

A) Identification of VMM9 Luminaire

IMPORTANT: Wear cotton gloves AND lift and handle the luminaire from the ends to avoid damaging or soiling the lens surface. Should the lens surface become smudged or otherwise blemished, clean using only a soft, microfiber cotton cloth.

STARTER UNIT
Starter unit segments are identifiable by a pre-installed end cap on the beginning end and a cable gripper on the connecting end.

JOINER UNIT
Joiner unit segments are identifiable by the LACK of pre-installed end caps on the connecting ends.

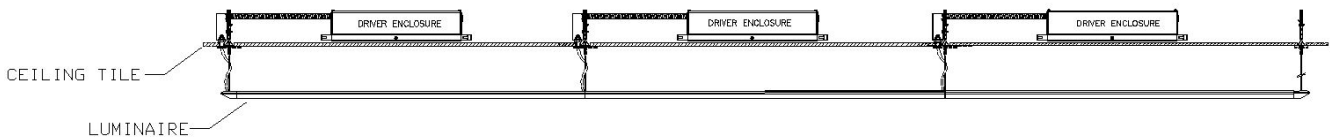
ENDER UNIT
Ender unit segments are identifiable by a pre-installed end cap on the far end and the LACK of a cable gripper on the connecting end.

JOINER CONNECTIONS
On joiner units, Connecting ends WITH cable grippers attach to connecting ends WITHOUT cable grippers.

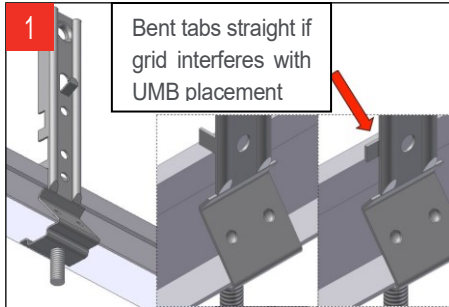
IMPORTANT: Each luminaire section MUST BE paired with its corresponding driver enclosure. Look for matching numbers on the luminaire and driver enclosure packaging boxes.

B) Overview of VMM9 Installation

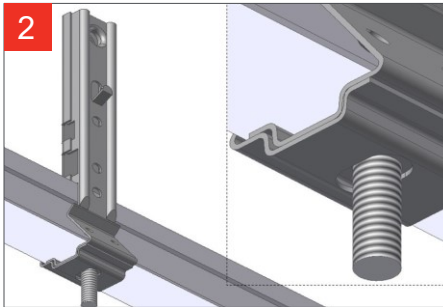
IMPORTANT: Each luminaire section (both 4' and 8') requires its own (1) driver enclosure.



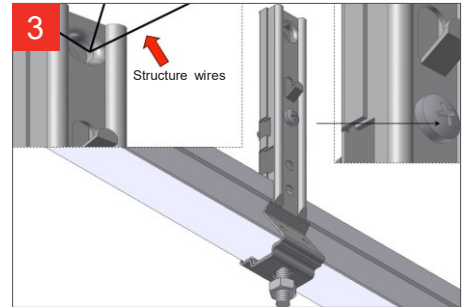
C) Remote Driver Installation for Grid Ceilings (F1)



For On-Grid Installations follow Steps 1-3 then skip to Step 7: Locate a Universal Mounting Bracket (UMB) A. Insert bolt into bottom hole, then hook onto grid.



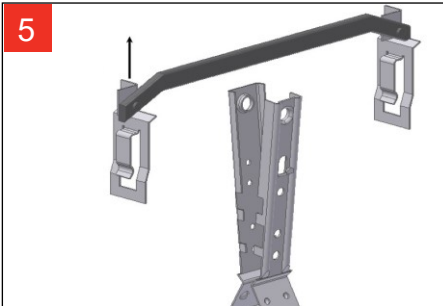
Hook UMB B onto Bracket A (Letters A or B marked on the UMB).



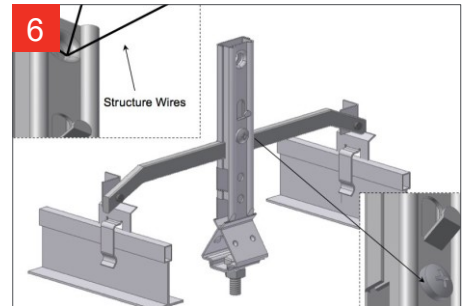
Adjust brackets to proper location along the ceiling grid then screw sides A to B together. Secure the brackets to the building structure per local building codes.



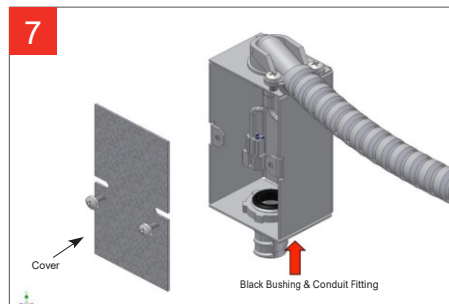
For Off-Grid Installations skip Steps 1-3 and begin here at Step 4: In an accompanying hardware box, locate a Universal Mounting Bracket. Insert bolt into Bracket A. Hook Bracket B onto Bracket A. Secure with nut



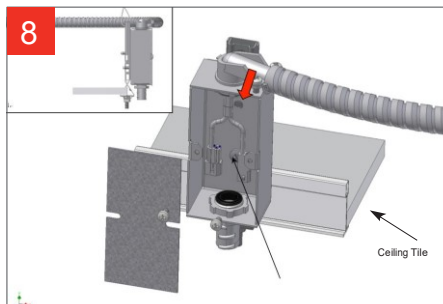
Slide hanger (by others) onto Caddy Bar and fit Caddy Bar into upper slots in bracket.



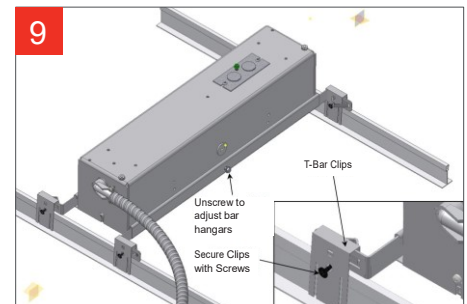
Adjust brackets to proper location along the ceiling grid then screw sides A to B together. Secure the brackets to the building structure per local building codes



Locate the matching driver enclosure box for the luminaire section currently being installed. Remove cover from provided J-box by unscrewing (2) #8 screws. Attach black bushing and conduit fitting to J-box.

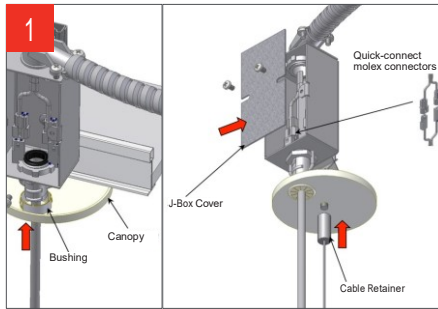


Hang J-box assembly onto Bracket "A" tab then screw J-box to bracket.

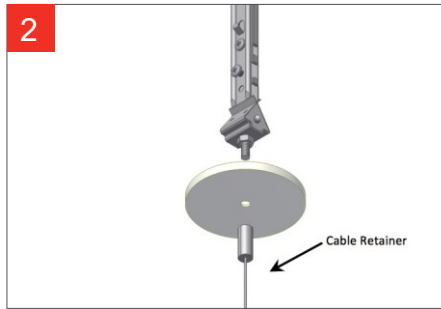


Position field mounting tray in desired locations across a 2' section of the ceiling grid. Adjust bar hangers to correct width by loosening side screw and then re-tighten to lock in place. Secure ends of bar hangers to T-bar using provided T-bar clips and screws.

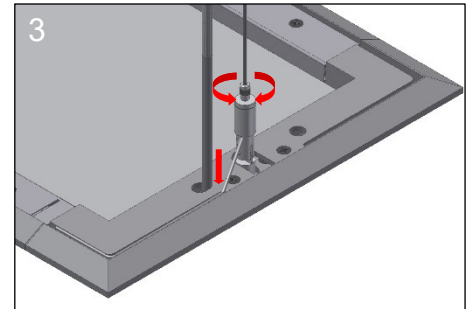
D) Luminaire Installation for Grid Ceilings (F1)



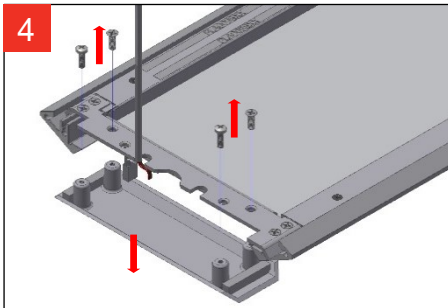
At power feed locations: Insert feed cord with pre-installed Molex connectors (leading out from luminaire) into J-box through bushings and canopy. Place canopy flush with ceiling tile. Thread cable retainer onto bolt. Connect wire connectors and install the cover to the J-box with screws.



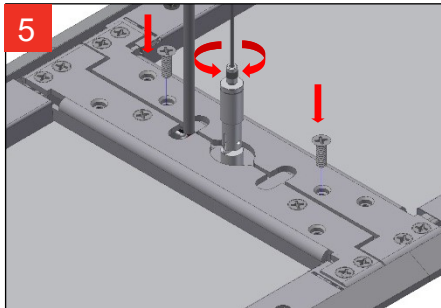
At non power feed locations: Assemble UMB onto grid (as in C1-3) or caddy bar (as in C4-6) Place canopy against ceiling tile. Thread cable retainer onto bolt no less than 1/4" of the way up.



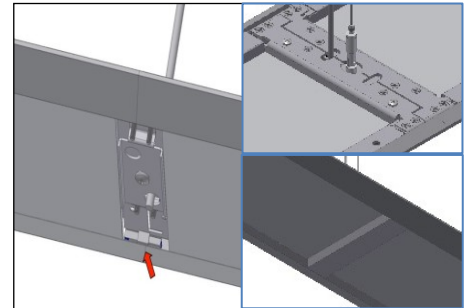
Raise starter (or individual) luminaire into position. Insert aircraft cable into gripper by loosening the safety cap at both end. Insert extra cable exited from gripper into slot/hole at the end cap or holes at the joint. Level the luminaire then tighten safety caps.



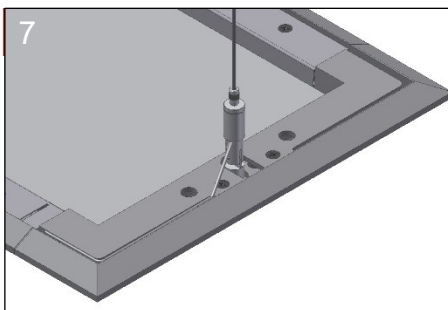
Remove filler by unscrewing (2) # 8 screws from next luminaire (Joiner or Ender). Raise the joiner/ender unit into position. Insert the aircraft cable into cable gripper on the other end.



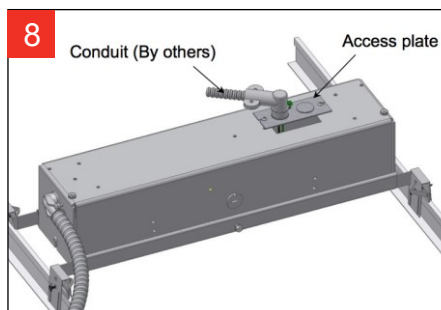
Join 2nd luminaire with (2) #8 screws from 1st luminaire while organizing wires to be sure not pinched. Adjust screw(s) tightness slightly to align housing to be straight. Level luminaires and tighten cap of cable gripper.



Organize wire and wire connectors into cavity. Be sure not to pinch wires. Then reinstall filler back on. Repeat step 4~6 to form a long row.

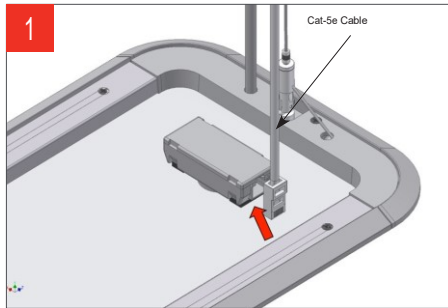


Raise last (Ender) section into position and insert aircraft cable into gripper on luminaire as Step 3. Join the luminaire at the joint as Step 5 to complete luminaire row.

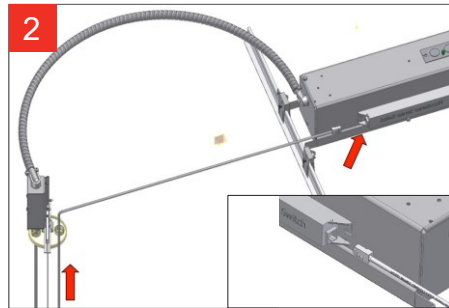


Unscrew and remove access plate on driver enclosure. Run building wires with flexible conduit to driver enclosure. Knock out one hole in access plate. Pass building wires through hole. Perform wire splices, insert wires back into enclosure and reattach access plate.

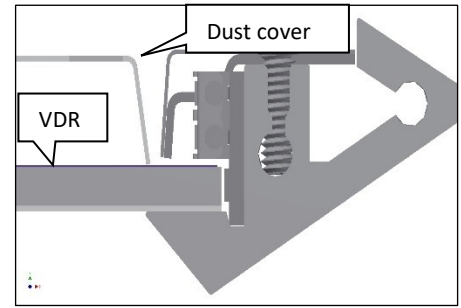
E) Installation for Options (Sensor, VDR, Dust Cover)



Where applicable, connect Cat-5e cable into receptacle of sensor on the topside of the luminaire.

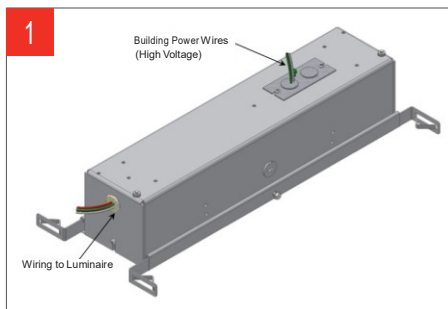


Where applicable, connect other end of Cat-5e cable by passing cord through bushing on canopy then over and into the power pack attached on side of the driver enclosure. For hard ceiling installations, use longer Cat-5e cable (by others) to reach driver enclosure. A coupler is provided.

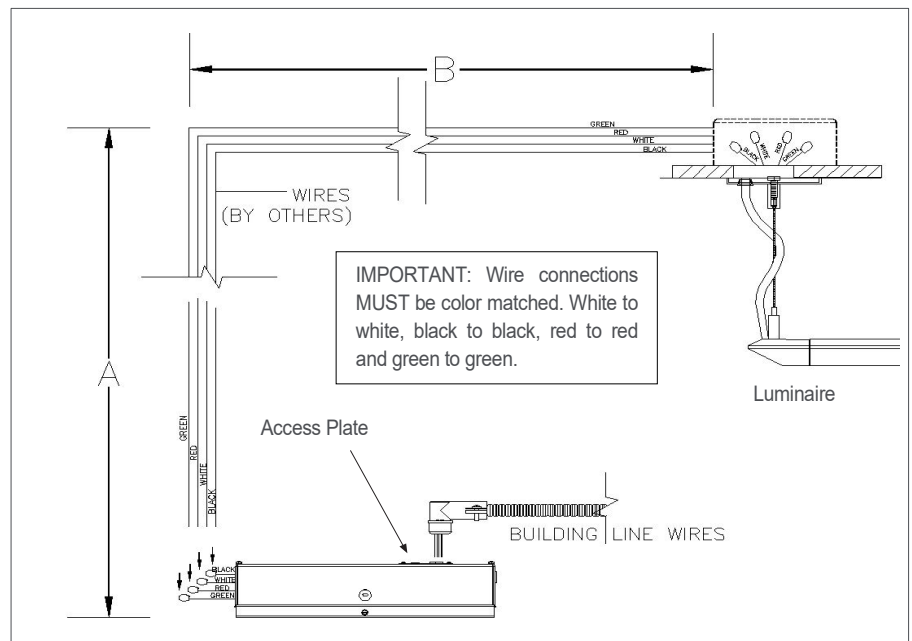


Variable Distribution Reflector (VDR) and/or Dust Cover (DU) are pre-installed in the luminaire. Where applicable, it can be removed or replaced on site without tool. 0/100 VDR is solid sheet. 20/80 VDR is perforated sheet. DU is clear PC with protective sheets. Be sure to remove them prior to install.

F) Remote Driver Installation for Hard Surface Ceilings (F2)



Locate matching driver enclosures for each luminaire and place in electrical room or applicable area.



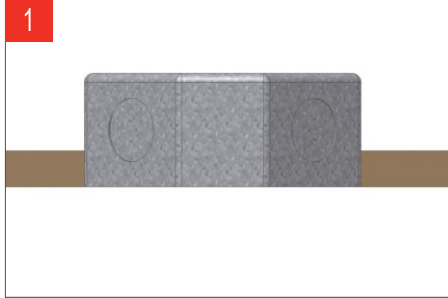
Connect white, black, red and green wires coming out of driver enclosure and into terminal blocks to a matching set of colored wires (by others) leading to luminaire. Next, at the luminaire, connect run of wires (by others) to terminal blocks underneath J-box making sure colors match. Unscrew and remove access plate on driver enclosure. Run building wires to driver enclosure. Knock out one hole in access plate. Pass building wires through hole. Perform wire splices, insert wires back into enclosure and reattach access plate.

IMPORTANT:

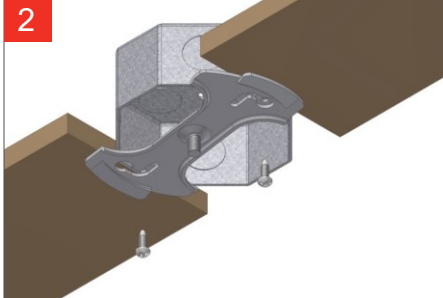
Run wires (by others) from the driver enclosure to the luminaire following these requirements. Maximum distance must not be exceeded.

Wire Gauge	Maximum Distance (ft.) (A + B)
18	56
16	102
14	176
12	272

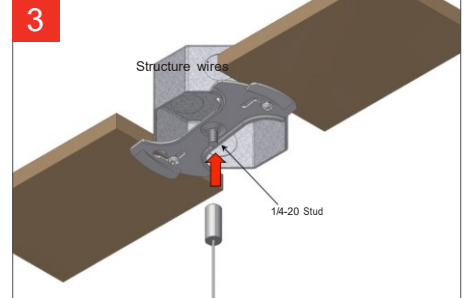
G) Luminaire Installation for Hard Surface Ceilings (F2)



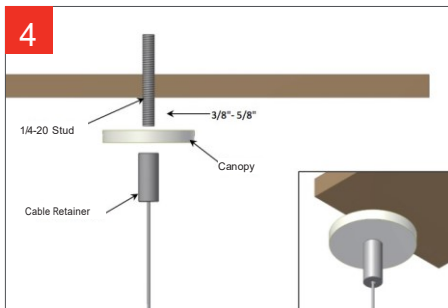
At power feed locations: Install a 4" octagonal J-box (by others) into the ceiling. Make sure the bottom edge sits flush with ceiling level.



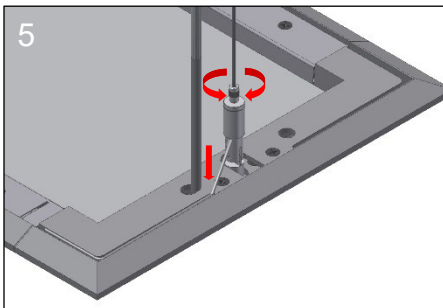
Attach a mounting strap to the J-box using (2) #8 screws and fasten securely.



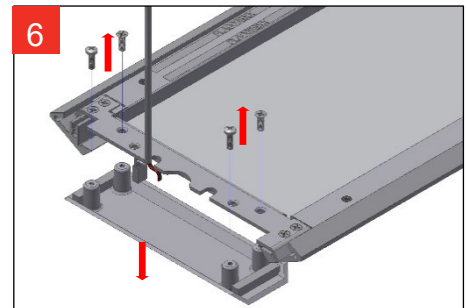
Secure the cable retainer to the 1/4-20 stud.



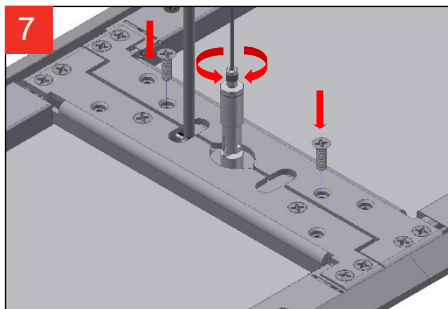
At non-feed locations, Secure 1/4-20 stud (by others) approximately 3/8" to 5/8" below ceiling. Insert canopy and securely fasten the cable retainer.



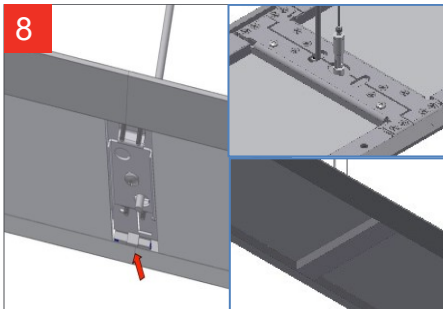
Raise starter (or individual) luminaire into position. Insert aircraft cable into gripper by loosening the safety cap at both end. Insert extra cable exited from gripper into slot/hole at the end cap or holes at the joint. Level the luminaire then tighten safety caps.



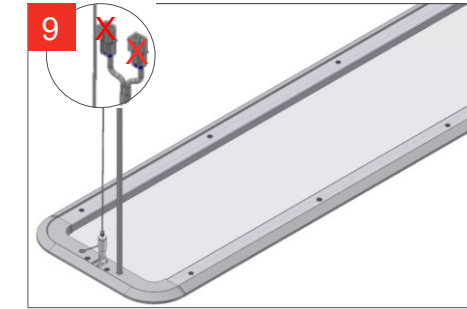
Remove filler by unscrewing (2) # 8 screws from next luminaire (Joiner or Ender). Raise the joiner/ender unit into position. Insert the aircraft cable into cable gripper on the other end.



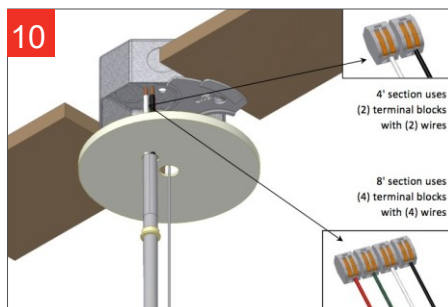
Join 2nd luminaire with (2) #8 screws from 1st luminaire while organizing wires to be sure not pinched. Adjust screw(s) tightness slightly to align housing to be straight. Level luminaires and tighten cap of cable gripper.



Organize wire and wire connectors into cavity. Be sure not to pinch wires. Then reinstall filler back on. Repeat step 6~8 to form a long row.



Truncate Molex connectors from DC input cord. Cut and strip each conductor wire to approximately 3/8".



Insert bushing on cord. Remove canopy and pass cord through canopy. Attach connector terminal block or wire nut on each wire. Each wire uses one terminal block or wire nut.

General Installation Instructions

⚠ WARNING

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- Installation and maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
- Read this document before installing, servicing or maintaining this equipment or installing a lamp. These instructions do not cover all installation, service and maintenance situations. If your situation is not covered, or, if you do not understand these instructions or additional information is required, contact Peerless Lighting or your local Peerless Lighting distributor.
- Read and follow all warnings and instructions provided by the lamp manufacturer.

⚠ WARNING

Before installing, servicing or maintaining this equipment, follow these general precautions. To reduce the risk of electrocution:

- Make sure the equipment is properly grounded.
- Always de-energize the circuit and/or equipment before connecting to, disconnecting from or servicing the equipment.

To prevent luminaire row from over-current:

- By adding the input current of each luminaire section marked on the luminaire, the total current per power feed must not exceed the maximum line wire amperage marked on the luminaire and the power feed cord/wire amperage rating whichever is the least.

To reduce the risk of fire:

- Keep material away that can burn from hot lamp.
- Make sure lamps are correctly installed.
- Use supply conductors with a minimum installation temperature rating as specified on equipment.

To reduce the risk of personal injury from cuts, abrasions or falling parts:

- Wear gloves to prevent cuts or abrasions from sharp edges when removing from carton, handling and maintaining this equipment.
- Do not use abrasive materials, glass cleaners or other solvents on reflector or lens. These substances may damage equipment and cause parts to eventually break and fall.
- Do not install a damaged fixture.

⚠ CAUTION

Observe lamp manufacturer's recommendations and restrictions on lamp operation including but not limited to ballast type, burning position, replacement and cycling. Use only lamps that comply with applicable ANSI standards.

NOTICE: If lamp is marked (Hg) it contains mercury. Follow disposal laws. See www.lamprecycle.org

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SAVE THESE INSTALLATION INSTRUCTIONS

Part Number: PIN004100 Revision: E Effective Date: 07/2012 ECO3665

PIN000100

UNIVERSAL MOUNTING

FEED LOCATION

INSTALLATION INSTRUCTION

Rev. D 11/11 ECO 3751

PEERLESS

PEERLESS LIGHTING

2246 5TH STREET, BERKELEY CA. 94710

TEL: 510-845-2760 FAX: 510-845-2776

WEB SITE: WWW.PEERLESS-LIGHTING.COM

These installation instructions are for installing the F1 Mounting Kit at FEED Location.

CAUTION: IT IS CRITICAL THAT SUPPORT LOCATIONS ARE LOCATED ACCURATELY. WE RECOMMEND THAT A LASER DEVICE BE USED TO LINE UP THE SUPPORT LOCATIONS ON FIXTURES HAVING MORE THAN ONE SECTION. IF NOT ALIGNED PROPERLY, A NOTICEABLE "BEND" MAY BE APPARENT WHEN VIEWED FROM THE END OF THE RUN.

WARNING: RISK OF FIRE AND ELECTRICAL SHOCK. THIS PRODUCT TO BE INSTALLED ONLY BY A QUALIFIED ELECTRICIAN.

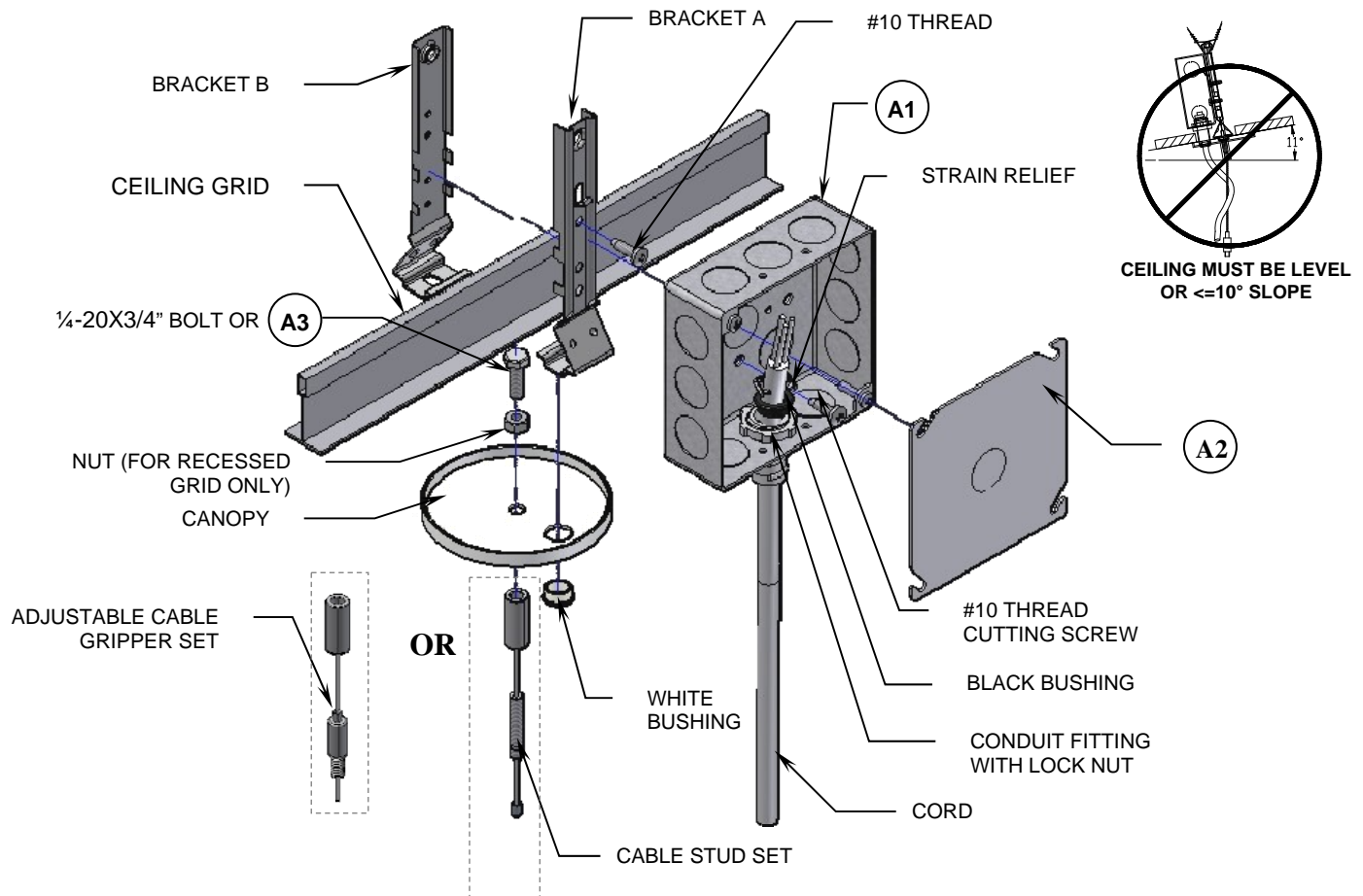
NOTE: THIS MOUNTING ASSEMBLY IS UL AND C-UL LISTED WITH THE LUMINAIRE (UL FILE 48952).

A) Parts Not Provided by PEERLESS	page 1
B) On-Grid Installation	pages 1-2
C) Off-Grid Installation	page 3

A) Parts Not Provided by PEERLESS

Depending on ceiling mounting type, contractor must obtain some or all of the following parts to complete installation (see parts list):

- A1** 4" square x 1-1/2" deep J-box with 1/2" knockout on middle of side.
- A2** J-box cover and screws.
- A3** 1/4-20 steel zinc plated hex head bolt (see Section D for bolt length).
- A4** Caddy Bar (CADDY #512A or equal) for Off-Grid Mounting (see page 3).



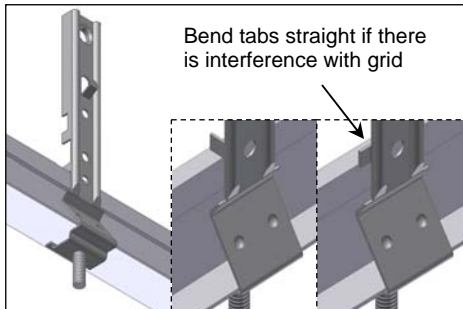
PIN000100

UNIVERSAL MOUNTING
FEED LOCATION
INSTALLATION INSTRUCTION
Rev. D 11/11 ECO 3751

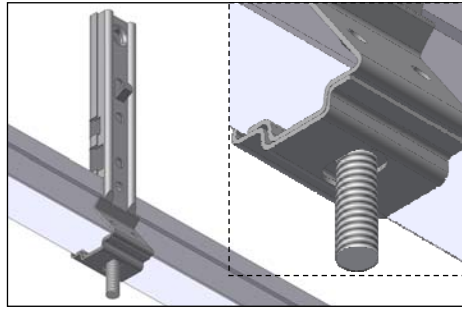
P E E R L E S S

PEERLESS LIGHTING
2246 5TH STREET, BERKELEY CA. 94710
TEL: 510-845-2760 FAX: 510-845-2776
WEB SITE: WWW.PEERLESS-LIGHTING.COM

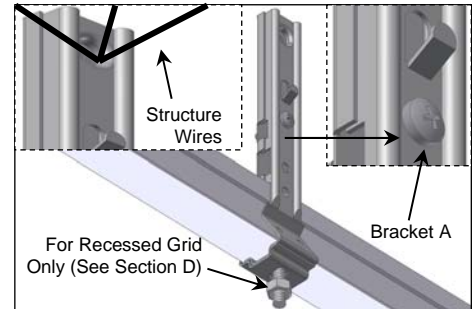
B2. ON-GRID INSTALLATION STEPS:



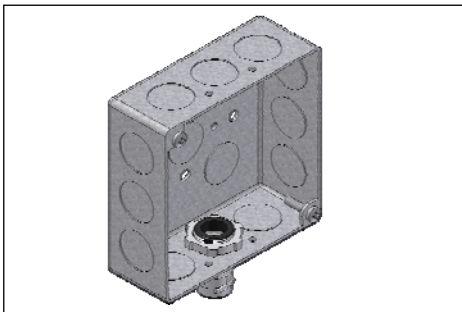
1. Insert bolt into bottom hole of Bracket A, then hook Bracket A onto grid.



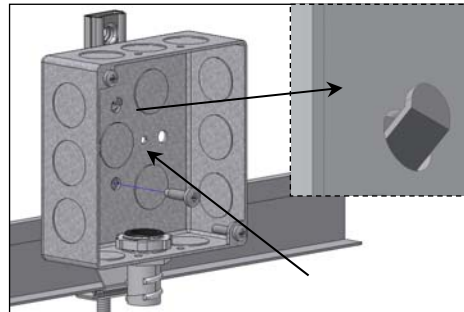
2. Hook Bracket B onto Bracket A



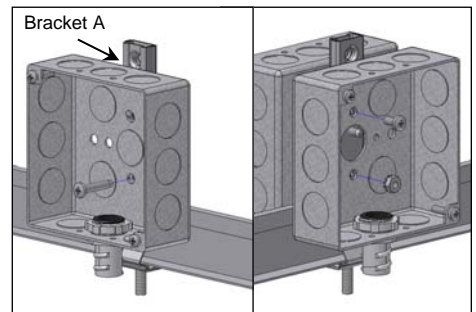
3. Adjust brackets to proper location then screw the brackets from A to B together. Secure the brackets to the structure above.



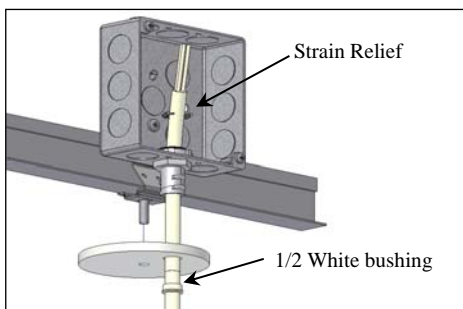
4. Attach black bushing and conduit fitting to J-box.



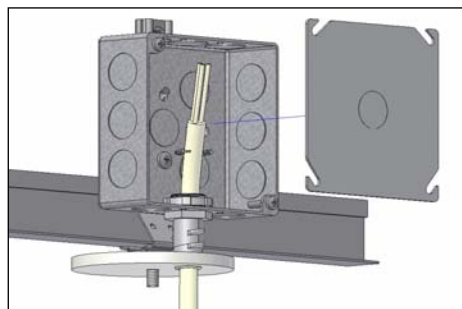
5. Hang J-Box assembly on bracket A tab. For single feed, screw J-Box to brackets.



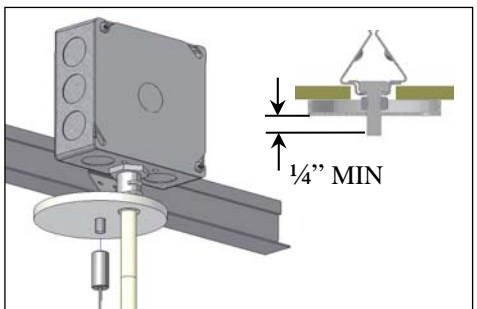
- 5A. For dual feeds, hang first J-box with long screw on the bracket A. Take center knock-out on the second J-box. Screw second J-box to bracket B. Then add nut to connect two boxes together.



6. Insert feed cord into J-Box through bushings and canopy. Attach strain relief on the cord.



7. Connect wires and install the cover to J-Box with screws.



8. Place canopy flush with ceiling tile. Thread cable retainer onto bolt no less than 1/4".

PIN000100

UNIVERSAL MOUNTING

FEED LOCATION

INSTALLATION INSTRUCTION

Rev. D 11/11 ECO 3751

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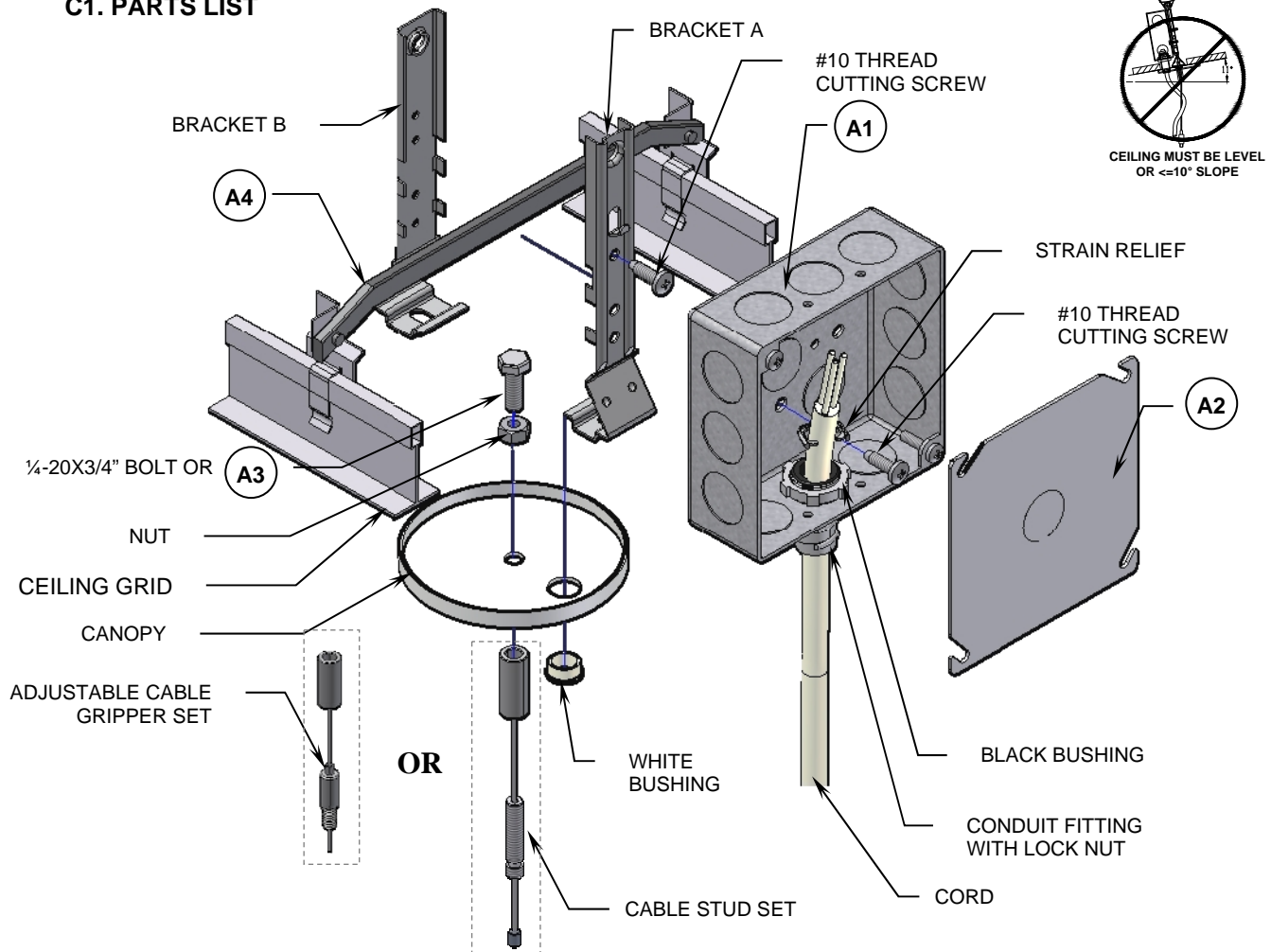
2246 5TH STREET, BERKELEY CA.94710

TEL: 510-845-2760 FAX: 510-845-2776

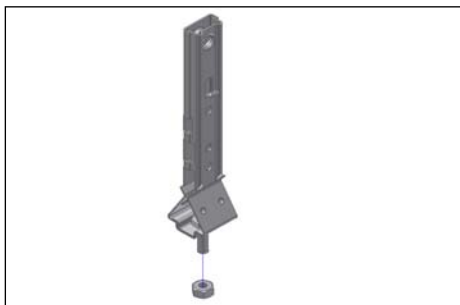
WEB SITE: WWW.PEERLESS-LIGHTING.COM

C) Off-Grid Installation

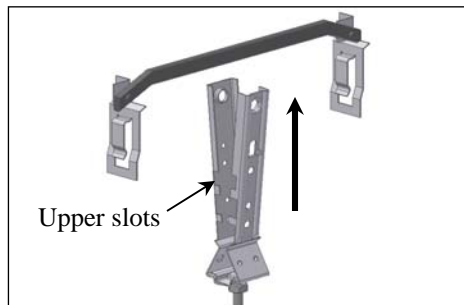
C1. PARTS LIST



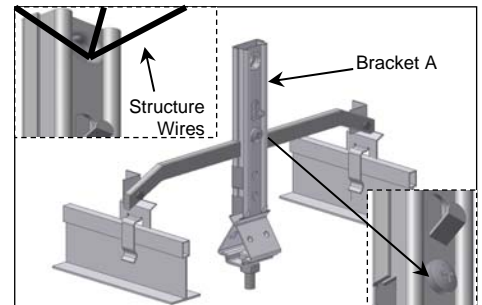
C2. OFF-GRID INSTALLATION STEPS



1. Insert bolt into Bracket A. Hook Bracket B onto Bracket A. Secure with nut (**DO NOT TIGHTEN**).



2. Slide hanger onto Caddy Bar and fit Caddy Bar into upper slots in bracket.



3. Adjust brackets to proper location then screw the brackets from A to B together. Secure the brackets to the structure above.

PIN000100

UNIVERSAL MOUNTING

FEED LOCATION

INSTALLATION INSTRUCTION

Rev. D 11/11 ECO 3751

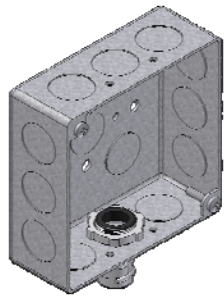
PEERLESS

PEERLESS LIGHTING

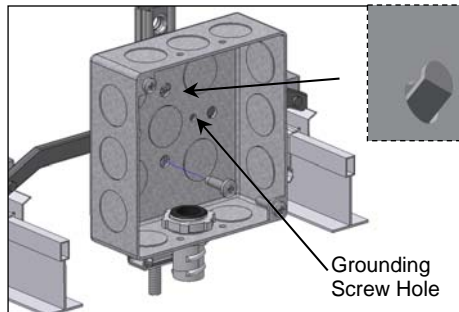
2246 5TH STREET, BERKELEY CA.94710

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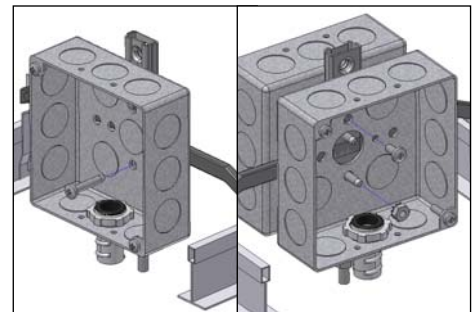
WEB SITE: WWW.PEERLESS-LIGHTING.COM



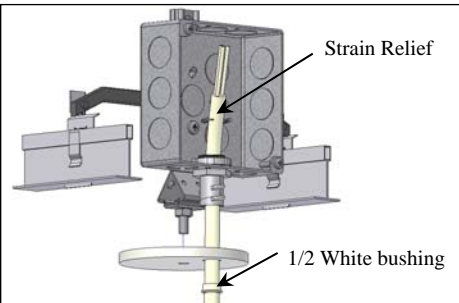
4. Attach black bushing and conduit fitting to J-box.



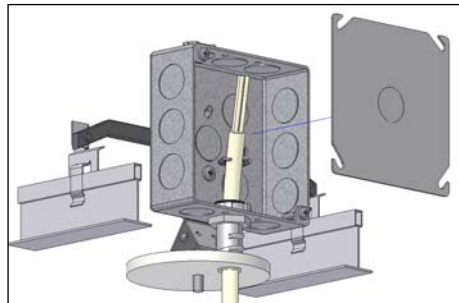
5. Hang J-Box on bracket A tab. For single feed, screw J-Box to brackets.



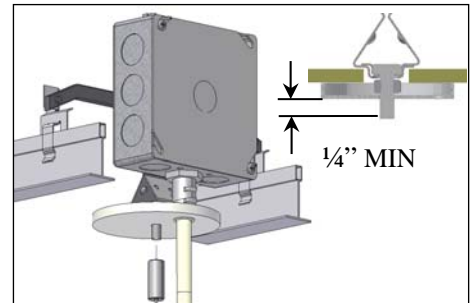
- 5A. For dual feeds, hang first J-box with long screw on bracket A. Take center knock-out on the second J-box. Screw second J-box to bracket B. Then add nut to connect two boxes together.



6. Insert feed cord into J-Box through bushing and canopy. Attach strain relief on the cord.

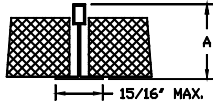
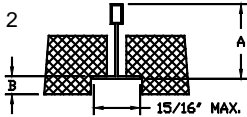
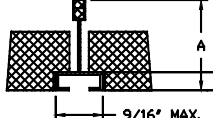


7. Connect wires and install the cover to J-Box with screws.



8. Place canopy flush with ceiling tile. Thread cable retainer onto bolt no less than 1/4".

D) Bolt and Nut Selection

TYPICAL GRID & TILE TYPE	ON-GRID			OFF-GRID		
	1/4-20X3/4" HEX BOLT B≤5/16	1/4-20 HEX BOLT B>5/16	1/4-20 HEX NUT	1/4-20X3/4" HEX BOLT A≤1.5 & B≤5/16"	1/4-20 HEX BOLT A>1.5" OR B>5/16	1/4-20 HEX NUT
TYPE 1 	YES		NO	YES	Use proper bolt length to meet min. 1/4" engagement	YES
TYPE 2 	YES	Use proper bolt length to meet min. 1/4" engagement	YES	YES	Use proper bolt length to meet min. 1/4" engagement	YES
TYPE 3 	YES		NO	YES	Use proper bolt length to meet min. 1/4" engagement	YES

General Installation Instructions

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- Installation and maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
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- Make sure lamps are correctly installed.
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- Do not install a damaged fixture.

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NOTICE: If lamp is marked (Hg) it contains mercury. Follow disposal laws. See www.lamprecycle.org

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SAVE THESE INSTALLATION INSTRUCTIONS

Part Number: PIN004100 Revision: E Effective Date: 07/2012 ECO3665

PIN000400

HORIZONTAL J-BOX MOUNTING KIT INSTALLATION INSTRUCTIONS

Page 1 of 4, ECO 3751 REV. C, 11/14

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TEL: 510-845-2760 FAX: 510-845-2776

WEB SITE: WWW.PEERLESS-LIGHTING.COM

CAUTION: IT IS CRITICAL THAT SUPPORT LOCATIONS ARE LOCATED ACCURATELY. WE RECOMMEND THAT A LASER DEVICE BE USED TO LINE UP THE SUPPORT LOCATIONS ON FIXTURES HAVING MORE THAN ONE SECTION. IF NOT ALIGNED PROPERLY, A NOTICEABLE "BEND" MAY BE APPARENT WHEN VIEWED FROM THE END OF THE RUN.

"WARNING: RISK OF FIRE AND ELECTRICAL SHOCK. THIS PRODUCT IS TO BE INSTALLED BY A QUALIFIED ELECTRICIAN ONLY."

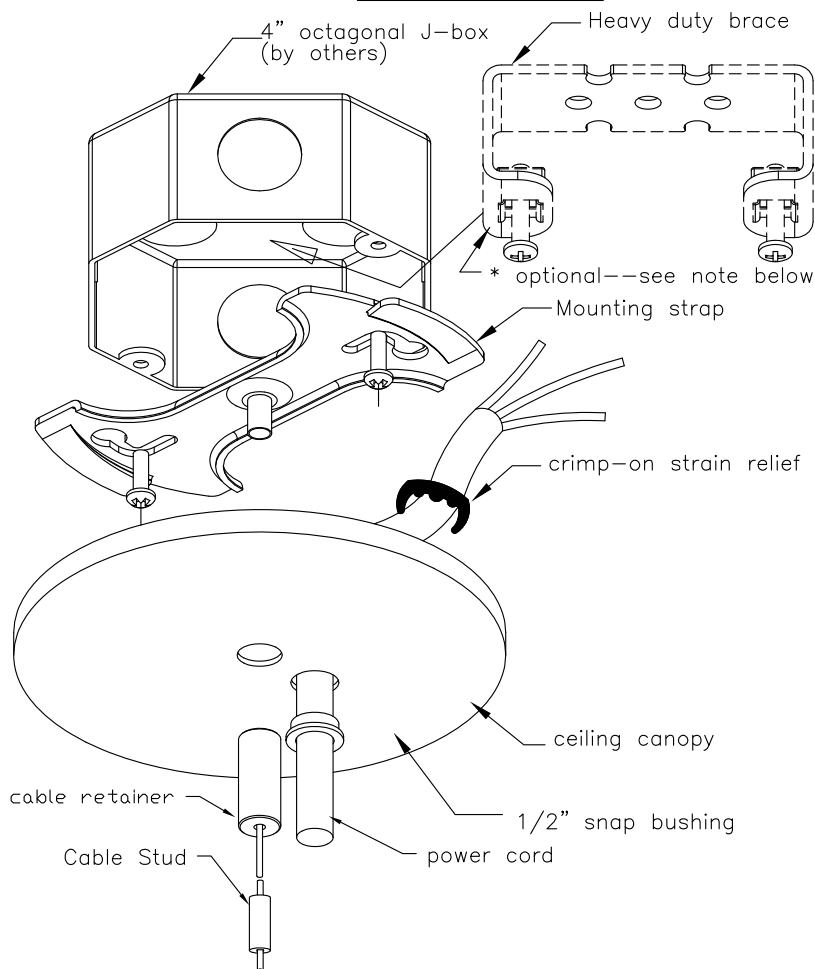
For ceiling mounting type, contractor needs to provide some or all of following parts to complete installation (see fig. 1 & 2).

- *) 4" octagonal J-box with 1/2" K.O. on middle of side.
- *) 1/4-20 stud.

NOTE: Cable retainer should engage to 1/4-20 stud no less than 1/4".

Ceiling must be level or $\leq 10^\circ$ slope. Use SLP and OJB option for $>10^\circ$ – see Page 4 of 4

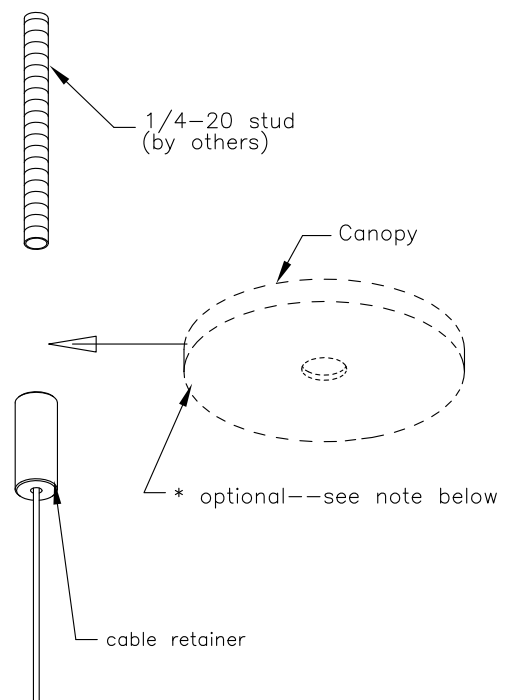
FIG. 1. AT FEED LOCATION



* NOTES:

This option is used at a mounting point where the fixture weight exceeds the 50 LBS. maximum weight allowance of a standard junction box. See page 3 for installation detail prior to installation of the junction box.

FIG. 2 AT NON-FEED LOCATION



* NOTES:

If you used 2" canopy or ordered 3-1/2" or 5" canopy for non-feed kit, please note that the suspension will be 1/4" longer than the suspension at power feed location. To level the fixture, you can adjust the threaded tubing on the fixture ($\pm 1/4$ " adjustment) if the ceiling is well leveled.

PIN000400

HORIZONTAL J-BOX MOUNTING KIT INSTALLATION INSTRUCTIONS

Page 2 of 4, ECO 3751 REV. C, 11/14

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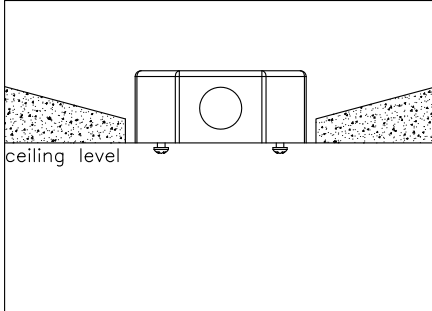
PEERLESS LIGHTING

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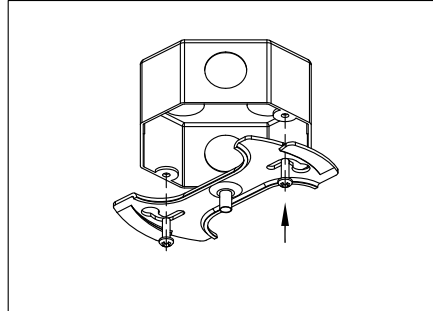
TEL: 510-845-2760 FAX: 510-845-2776

WEB SITE: WWW.PEERLESS-LIGHTING.COM

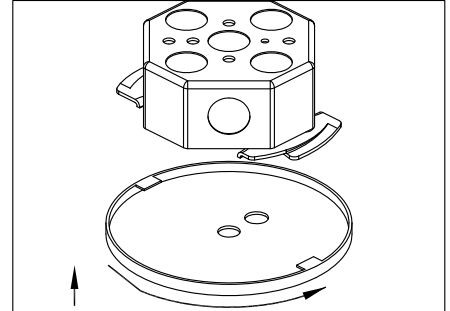
(1) AT FEED LOCATION



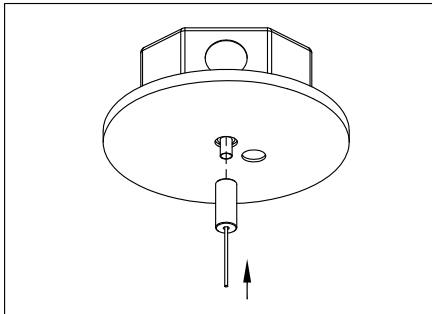
Step 1: Secure the 4" octagonal junction box so that it is flush with ceiling level.



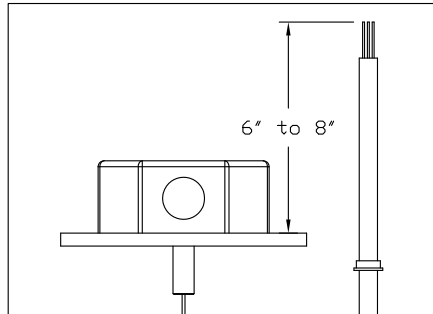
Step 2: Attach the mounting strap to the junction box and securely fasten.



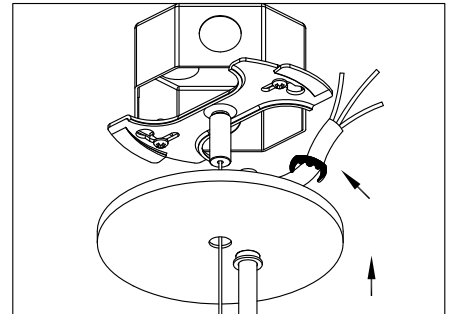
Step 3: Temporarily install the canopy to the mounting strap.



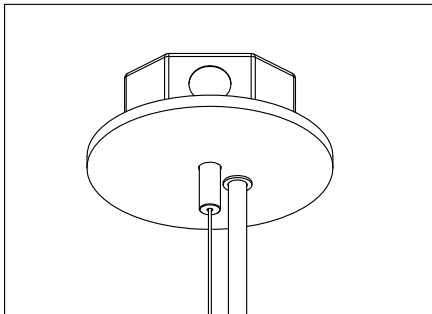
Step 4: Screw the cable retainer to the stud.



Step 5: Calculate the actual length of the cord required to reach the junction box, allowing 6" to 8" for splicing. Cut and strip the cord if necessary.

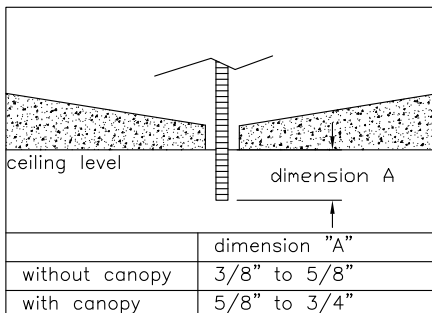


Step 6: Remove the canopy. Install the bushing. Insert the cord end through the canopy. Then install the insulated crimp strain relief (hog ring) above the canopy.

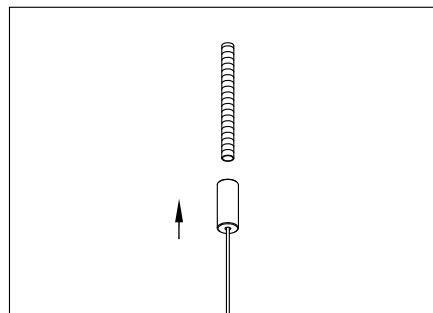


Step 7: Install canopy to mounting strap. This completes the installation.

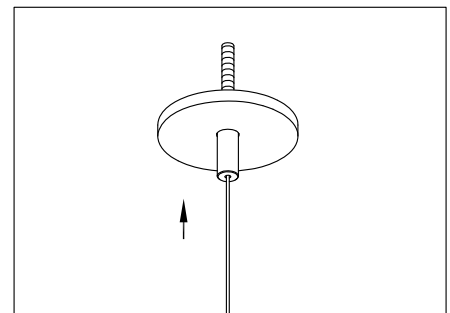
(2) AT NON-FEED LOCATION



Step 1: Secure the 1/4-20 stud at the dimension shown.



Step 2: If canopy is not used, securely fasten the cable retainer to complete installation.



Step 2A: If canopy is used, insert the canopy and securely fasten the cable retainer to complete installation.

PIN000400

HORIZONTAL J-BOX MOUNTING KIT INSTALLATION INSTRUCTIONS

Page 3 of 4, ECO 3751 REV. C, 11/14

P E E R L E S S

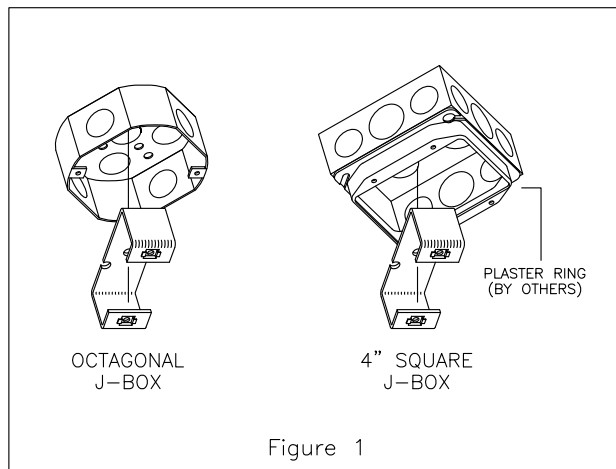
PEERLESS LIGHTING

2246 5TH STREET, BERKELEY CA. 94710

TEL: 510-845-2760 FAX: 510-845-2776

WEB SITE: WWW.PEERLESS-LIGHTING.COM

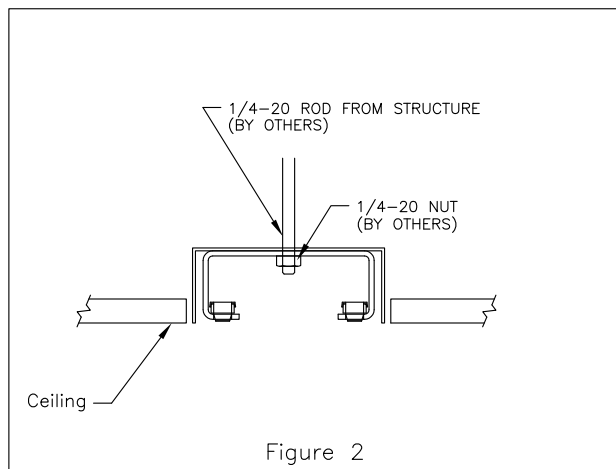
OPTION: INSTALL REINFORCE HEAVY DUTY BRACE



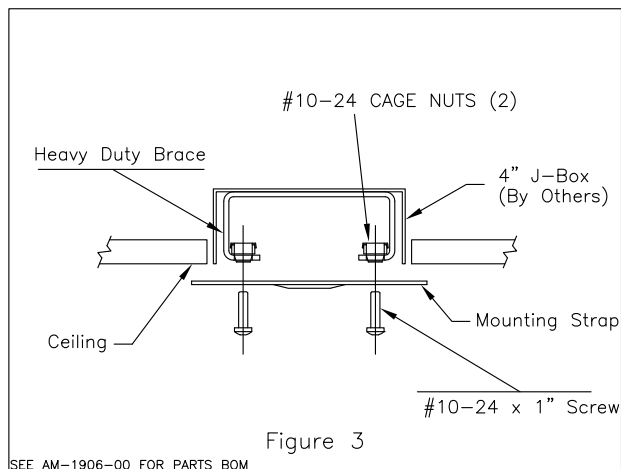
1. Insert the Heavy Duty Brace diagonally into the J-Box and align the holes in the bracket with the existing holes in the J-Box.

NOTE: This brace can be used with the TrueGrid® Kit #1 (LTG-M10).

NOTE: When using a 4" Square J-Box, a two device plaster ring must be used to allow insertion of the bracket after the box has been installed. See Figure 1.



2. Determine the appropriate support method for ceiling construction (sample method is shown on Figure 2). Attach the appropriate fastening devices through the holes of the bracket and box and secure the assembly to the support structure.



3. Complete the installation in accordance with the fixture installation instructions, attaching the fixture mounting strap to the Heavy Duty Brace with the #10-24 machine screws provided. See Figure 3.

SEE AM-1906-00 FOR PARTS BOM

PIN000400

HORIZONTAL J-BOX MOUNTING KIT INSTALLATION INSTRUCTIONS

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PEERLESS

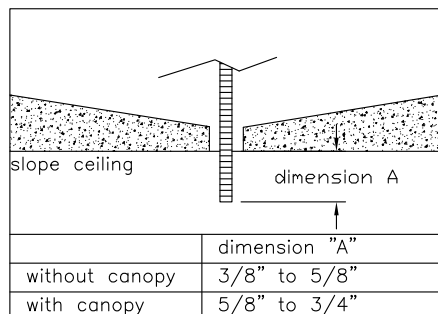
PEERLESS LIGHTING

2246 5TH STREET, BERKELEY CA. 94710

TEL: 510-845-2760 FAX: 510-845-2776

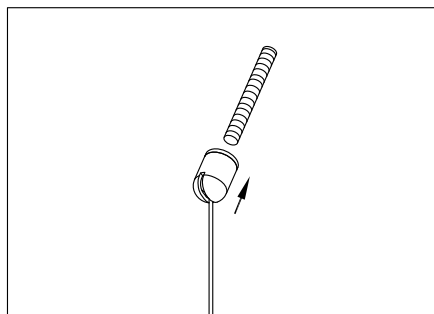
WEB SITE: WWW.PEERLESS-LIGHTING.COM

SLP PLUS OJB OPTION: Slop ceiling and offset j-box



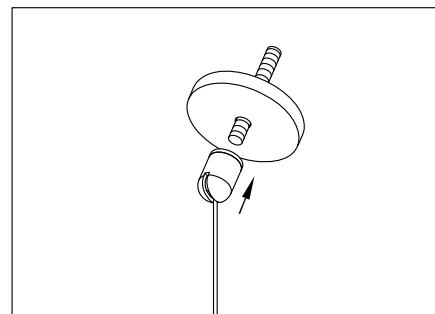
Step 1: Secure the 1/4-20 stud at the dimension shown.

NOTE: Stud must be perpendicular to the slope ceiling

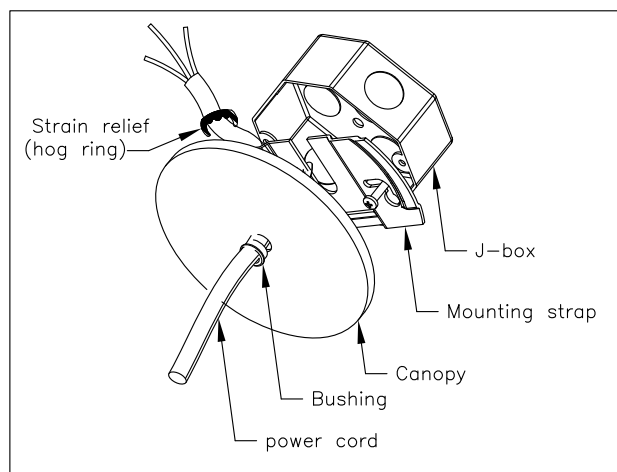


Step 2: If canopy is not used, securely fasten the cable retainer to complete installation.

NOTE: Open slot on the cable retainer must be placed vertical to allow adjustable cable hang perpendicular to the floor



Step 2A: If canopy is used, insert the the canopy and securely fasten the cable retainer to complete installation.



3. Secure the 4" octagonal junction box so that is flush with the slope ceiling.

4. Attach the mounting strap to the junction box and securely fasten.

5. Calculate the actual length of the cord required to reach the junction box, allowing 6 to 8 for splicing. Cut and strip the cord if necessary.

6. Install the bushing. Insert the cord end through the canopy. Then install the insulated crimp strain relief (hog ring) above the canopy.

7. Install canopy to mounting strap. This completes the installation.