



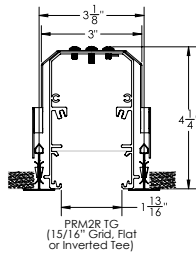
HIGHLIGHTS

- Total System Integration features 5-year limited warranty by Acuity Brands covering all components and construction
- 4, 6 & 8' individual sections
- 1 ft increments with combined linear lengths
- Up to 106 Lm/W
- Reflective trims are available with smooth or ribbed textures
- Trims can be painted white, black or anodized in 5 different colors
- sMatching end trim to the linear trims
- In-fixture flicker free dimming to 0.1%
- White, black, painted aluminum or custom color housing
- Mainstream Dynamic Tunable White with nTune™ Technology
- UGR data available on Page 4



DIMENSIONS

PRM2R

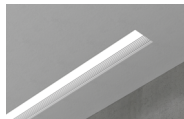


See Page 6 for additional housing mounting details

DETAILS



Smooth Flanged



Ribbed Flangeless

TRIM OPTIONS

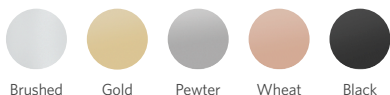


Ribbed Trim



Smooth Trim

TRIM COLOR OPTIONS



LUMEN PACKAGES

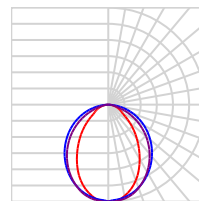
Based on 80CRI @3000K with MDLS and SMMW Trim. Additional outputs and color temperatures available.

Direct LED Output	300LMF	500LMF	700LMF	900LMF
Direct Delivered Lumens Per Foot	273	466	659	849
Input Watts Per Foot	2.5	4.5	6.4	8.4
Lumens Per Watt	106	104	102	100.8

*Please pull the appropriate IES file for the hard data number for your luminaire selection

DISTRIBUTION

80CRI TUWH PROR @ 3000K 300LMF



CUSTOMIZATION

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

MODEL NUMBER Example: PRM2R LOP 24FT TG 80CRI TUWH PROR 300LMF RBMW MDLS DARK NLT 120 C210

Luminaire	Linear Length Plan	Total Run Length	Mounting Type	LED Color Rendering	Dynamic Feature	Dynamic Range
PRM2R	LOP Linear optimized plan	_FT Run	TG Grid ceiling 9/16" or 15/16" Flat or inverted tee TGT Grid Ceiling Slot or Tegular FL¹ 3/18" Flanged (sheetrock) GB¹ Trimless (sheetrock) <i>1. Available with INTG only</i>	80CRI 80+ CRI 90CRI 90+ CRI	TUWH Tunable White	PROR 3000K-5000K RHYR 2700K-6500K

Direct LED Output	Trim	Driver Type	Minimum Dimming Level	Control Input
300LMF 300 Nominal lumens per foot 500LMF 500 Nominal lumens per foot 700LMF 700 Nominal lumens per foot 900LMF 900 Nominal lumens per foot <i>*Available in 100 lumen increments between min of 200LMF & max of 1000LMF **Nominal distribution. Refer to photometric tests for exact distribution</i>	(Matte Colors) RBMW Ribbed White SMMW Smooth White RBMBLK Ribbed Black SMMBLK Smooth Black (Anodized Colors) RBBR Ribbed Brushed SMBR Smooth Brushed RBBLK Ribbed Black SMBLK Smooth Black RBGLD Ribbed Gold SMGLD Smooth Gold RBPWT Ribbed Pewter SMPWT Smooth Pewter RBWHT Ribbed Wheat SMWHT Smooth Wheat	MDLS¹ Modulus <i>1. Low - voltage DC drivers. Includes remote head unit with DC power supply and controls adapters</i>	DARK Constant current, dimming to < 1% MIN1 Constant Current dimming to 1%	NLT¹ nLight nTune interface <i>1. Will use logarithmic dimming curve</i>

Voltage	Emergency Options	Color
120 120V 277 277V 347¹³ 347V MVOLT 120V-277V <i>1. 347 not available with EC or WEC.</i>	(Blank) None _EC Emergency circuit module E35INV 35W Emergency Micro Inverter E50INV¹ 50W Emergency Micro Inverter WEC Whole run on EC Circuit <i>1. (Not California Title 20 (T20) Compliant</i>	C210 Textured White C202 Textured Black C110 Painted Aluminum C099¹ Custom color RALTBD² RAL Paint Finishes <i>1. C099 for pricing only. Custom color chip and requested finish needs to be sent in to your Customer Care Rep and matched up with our paint department and customer approved before order is entered. Standard finish choice is Textured (C099T) 2. RALTBD for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options. Standard finish choice is Textured (RALxxxxT)</i>

SPECIFICATIONS

Housing

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

Trims

Aluminum trims are available with smooth or ribbed texture and with a matching end trim for a harmonious aperture.

Color

Standard colors are textured white, textured black, and painted aluminum. Consult factory for customer colors and RAL color options.

Source

Multiple lumen packages available with 2700K, 3000K, 3500K, 4000K, 5000K CCT all within a 2.5 step MacAdam Ellipse.

Optics

Direct optical system is a open aperture design with a seamless continuous regressed lens.

Mounting

Recessed. Available for 9/16" slot grid or 15/16" inverted T ceilings, or 9/16" inverted T (TG or TGT options) Also available for hard ceilings (sheetrock, wood, etc.) for install-from-below with flanged (FL) and flangeless (GB) options. Drivers are accessible from above or below for TG/TGT and from below for FL/GB options

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.

Fixture Weights

Approximately 4-6 lbs per foot less packaging for base fixture.

Modulus Remote Power and Control System (MDLS Option)

Remote power source provides "natural dimming" with smooth, continuous and flicker-free dimming to dark (0.1%). Current draw on control line per 4ft - 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 (L80) at 25° C ambient temperature. Pre-wired with 18AWG fixture wire. Plug in electrical connectors included in fixtures sections, hard wire connections to be made at fixture junction box and head units.

Environment

Suitable for damp location.

Validation

cULus listed. Tested to UL2108, UL1598 and UL924 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/warranty/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

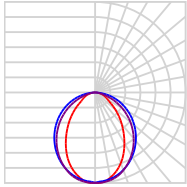
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to meet the Acuity Brand's specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

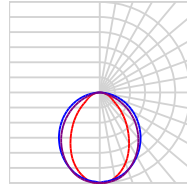
To learn more about Acuity A+ standards, specifications, and testing, visit www.acuitybrands.com/aplus.

The product images shown are for illustration purposes only and may not be an exact representation of the product.

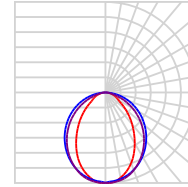
FIXTURE PERFORMANCE DATA



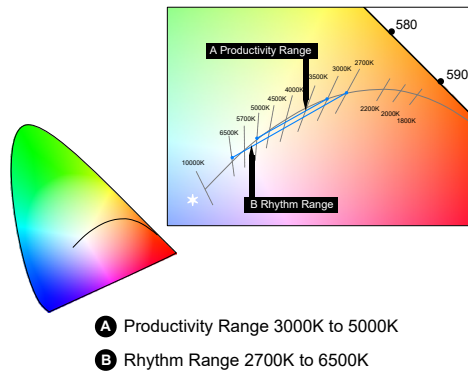
Test Report: ISF 24106P3864
PRM2R 4FT 80CRI TUWH
PROR 500LMF @30K SMMW
MDLS
103 Lm/W
466 Delivered lumens per foot



Test Report: ISF 24106P3876
PRM2R 4FT 80CRI TUWH
PROR 900LMF @30K SMMW
MDLS
101 Lm/W
849 Delivered lumens per foot



Test Report: ISF 24106P3879
PRM2R 4FT 80CRI TUWH
PROR 1000LMF @30K SMMW
MDLS
100 Lm/W
943 Delivered lumens per foot



Tunable White GPHD

- Gamut: One dimensional warm-Cool
- Path: Direct 3000K to 5000k (Productivity Range) or 2700K to 6500K (Rhythm Range)
- Handle: Two Natural Language Handles: Intensity and CCT
- Data: nLight with nTune technology for both handles of control

TRIM SCALING CHART

TRIM Finishes	Scale Factor
Smooth 2" Family	
SMMW	1
SMGLD	0.87
SMPWT	0.82
SMBLK	0.68
SMMBLK	0.68
SMWHT	0.84
SMBR	0.86

TRIM Finishes	Scale Factor
Ribbed 2" Family	
RBMW	1
RBGLD	0.85
RBPWT	0.79
RBBLK	0.67
RBMBLK	0.67
RBWHT	0.78
RBBR	0.84

PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factory	1	0.95	0.91	0.83

CCT SCALING CHART

DYNAMIC	CCT	CRI	MULTIPLIER
PROR	30K	80CRI	1
	40K	80CRI	0.94
	50K	80CRI	1.01
	30K	90CRI	0.85
	40K	90CRI	0.81
	50K	90CRI	0.86
RHYR	27K	80CRI	1
	46K	80CRI	0.95
	65K	80CRI	0.98
	27K	90CRI	0.85
	46K	90CRI	0.81
	65K	90CRI	0.84

*Lumen scaling charts can be used to approximate the lumen values at different Kelvin temperatures, color rendering indices, optics or shielding.
Example: Calculating the lumen change from PRM2R 4FT 80CRI TUWH PROR 700LMF 30K to 80CRI 50K = 2637.9 Lumens x 1.01 multiplier = 2664.2 Lumens

R9 VALUES CHART

R9 Values			
PROR	30K	90CRI	54.59
	40K	90CRI	61.65
	50K	90CRI	56.2
RHYR	27K	90CRI	57.04
	46K	90CRI	14.14
	65K	90CRI	63.39

UGR CHART

Direct Lumen Package	UGR (70% 50% 20% reflectance using a 4H x 8H room size)							
	Crosswise				Endwise			
	RBMW	SMBR	SMMW	RBBR	RBMW	SMBR	SMMW	RBBR
200LMF	15.4	14.4	15.3	15.3	13.7	10.3	13.6	14.4
300LMF	16.7	15.7	16.6	16.4	15	11.5	14.8	15.4
400LMF	17.7	16.7	17.6	17.2	16	12.6	15.9	16.2
500LMF	18.5	17.5	18.4	17.8	16.8	13.4	16.7	16.9
600LMF	19.1	18.1	19	18.3	17.5	14	17.3	17.4
700LMF	19.7	18.7	19.6	18.8	18	14.6	17.8	17.9
800LMF	20.1	19.1	20	19.2	18.5	15	18.3	18.3
900LMF	20.6	19.5	20.4	19.6	18.9	15.4	18.7	18.7
1000LMF	20.9	19.9	20.8	19.4	19.2	15.8	19.1	19.1

*UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application.

**Click here for more information on UGR FAQ

HEAD UNIT RUN LENGTH CHART (MDLS)

Max PRMx Feet per DK320P head unit									
MDLS - DK320P									
Direct Lumen Output									
0	200LMF	300LMF	400LMF	500LMF	600LMF	700LMF	800LMF	900LMF	1000LMF
0	64	64	64	64	56	48	40	36	32

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

Max PRMx Feet per DK75P head unit									
MDLS - DK75P									
Direct Lumen Output									
0	200LMF	300LMF	400LMF	500LMF	600LMF	700LMF	800LMF	900LMF	1000LMF
0	27	27	20	16	13	11	10	8	7

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

Max PRMx Feet per DK320P E35INV head unit (4FT increments, limits inverter load to 30W max)									
MDLS - DK320P + E35INV									
Direct Lumen Output									
0	200LMF	300LMF	400LMF	500LMF	600LMF	700LMF	800LMF	900LMF	1000LMF
0	40	40	32	28	24	24	20	20	16

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

Max PRMx Feet per DK320P E50INV head unit (limits inverter load to 43.5W max)									
MDLS - DK320P + E50INV									
Direct Lumen Output									
0	200LMF	300LMF	400LMF	500LMF	600LMF	700LMF	800LMF	900LMF	1000LMF
0	64	64	52	48	40	36	32	28	28

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

RUN LENGTH PER LINE-VOLTAGE FEED CHART (INTG)

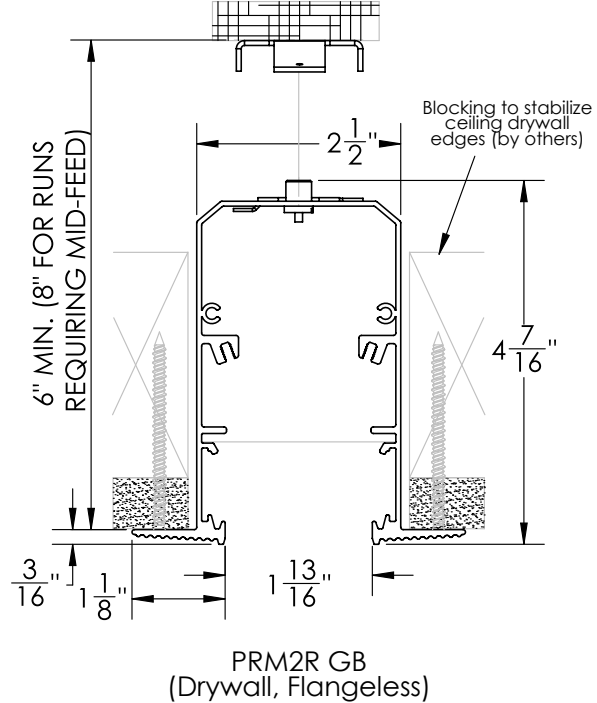
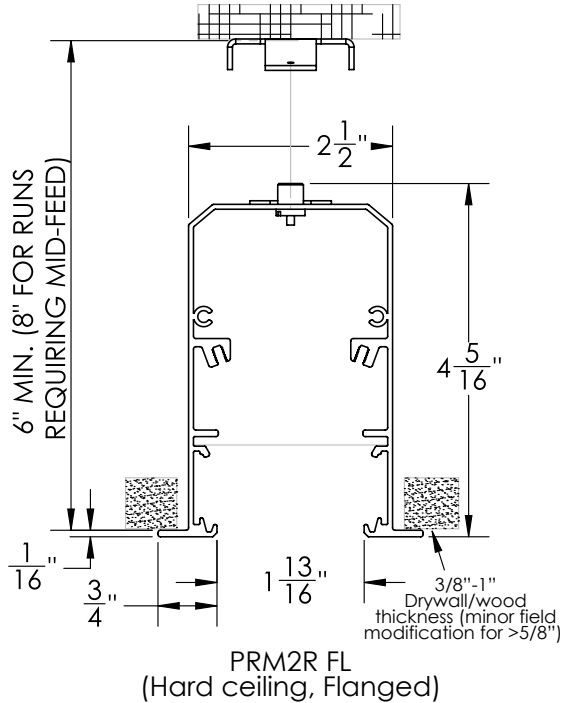
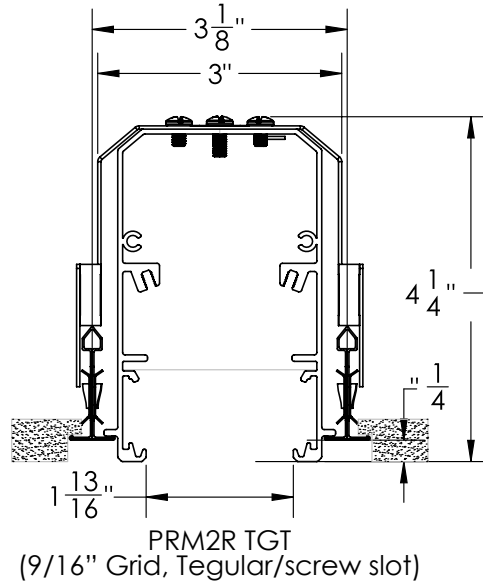
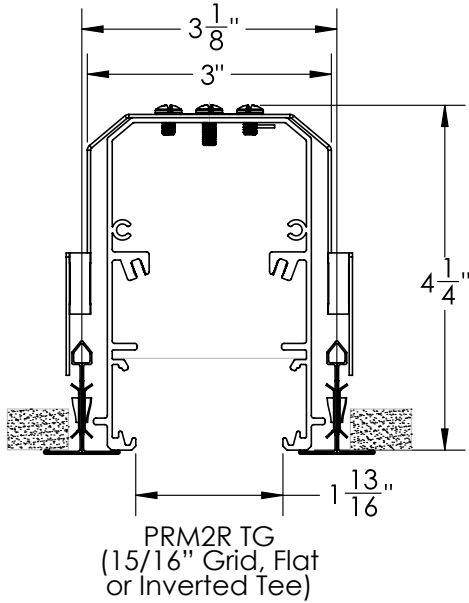
Max Feet Per Feed PRMx INTG (120V or MVOLT)									
INTG 120V									
Direct Lumen Output									
0	200LMF	300LMF	400LMF	500LMF	600LMF	700LMF	800LMF	900LMF	1000LMF
0	240	240	184	148	124	92	84	72	68

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

Max Feet Per Feed PRMx INTG (277V)									
INTG 277V									
Direct Lumen Output									
0	200LMF	300LMF	400LMF	500LMF	600LMF	700LMF	800LMF	900LMF	1000LMF
0	468	468	396	324	268	208	184	160	144

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

MOST COMMON MOUNTING TYPES AND OPTIONS



LINEAR PLAN:

LOP - Linear optimized plan

PRM4R LOP 8FT FL/GB

Any lengths >4ft ship as runs for FL/GB



PRM4R LOP 14FT



PRM4R LOP 15FT



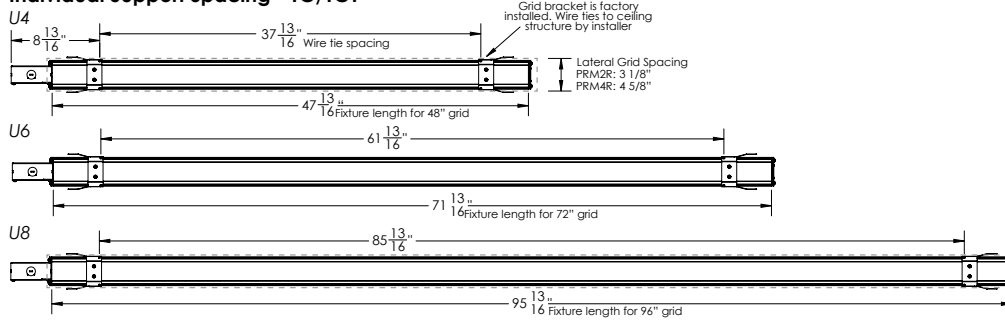
PRM4R LOP 104FT (max standard length)



WEIGHTS & SUPPORT SPACING

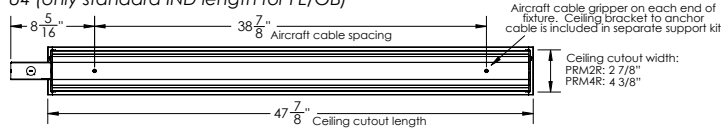
Individual (PRMxRIND) Lengths						
Nominal Length	TG/TGT			FL/GB		
	Wire Tie spacing [in]	Wire Tie spacing [mm]	Grid Centerline Spacing [in]	Aircraft cable spacing [in]	Aircraft cable spacing [mm]	Ceiling Cutout Length [in]
U4	37 13/16	960	48	38 7/8	987	47 7/8
U6	61 13/16	1570	72	IND only available in U4 length for FL/GB options		
U8	85 13/16	2180	96			

Individual Support Spacing - TG/TGT



Individual Support Spacing - FL/GB

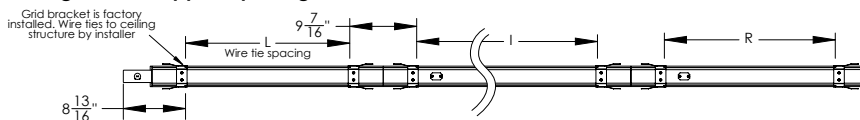
U4 (only standard IND length for FL/GB)



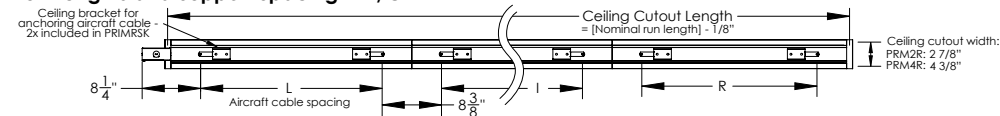
Run Support Spacing Dimensions

UNIT	TG/TGT						FL/GB					
	Dimension "L"		I		R		L		I		R	
	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[mm]
U3	26 3/16	665	-	-	26 3/16	665	27 1/4	692	N/A	N/A	27 1/4	692
U4	38 3/16	970	-	-	38 3/16	970	39 1/4	997	N/A	N/A	39 1/4	997
U6	62 3/16	1580	62 9/16	1589	-	-	63 1/4	1607	63 5/8	1616	N/A	N/A
U8	86 3/16	2189	86 9/16	2199	-	-	87 1/4	2216	87 5/8	2226	N/A	N/A

Run Lengths and Support Spacing - TG/TGT



Run Lengths and Support Spacing - FL/GB



UNIT LENGTH	SECTION UNIT WEIGHTS (lbs.)	
	4R	2R
U3	13.1	10.5
U4	16	12.6
U6	23.7	18.5
U8	28	22

IND UNITS WEIGHTS (LBS)		
IND GB	PRM2R	PRM4R
U4	12.6	16
U6	18.5	23.7
U8	22	28

INTELLIGENT LUMINAIRE CHARTS

Choose nomenclature from these columns						
Driver Configurations	Driver Type	Minimum Dimming Level	Control Input	Driver Type	Dimming Range	Notes
	MDLS	MIN1	TUWH NLT	eldoLED DCDC DUALdrive	100 to 1%	Logarithmic Dimming, nIO EZDCA 8Z CCT in head unit
	MDLS	DARK	TUWH NLT	eldoLED DCDC DUALdrive	100 to 0.1%	Logarithmic Dimming, nIO EZDCA 8Z CCT in head unit

UL924 Sequence of Operation

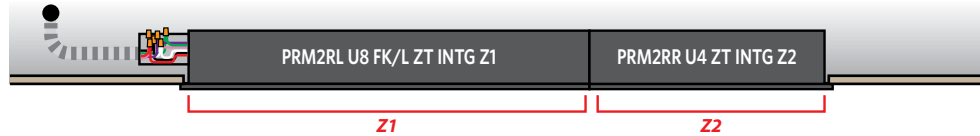
The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

ZONING AND CONTROLS

Two Zones, INTG and SCT

Branch circuit with 2x switched legs + 2x 0-10V

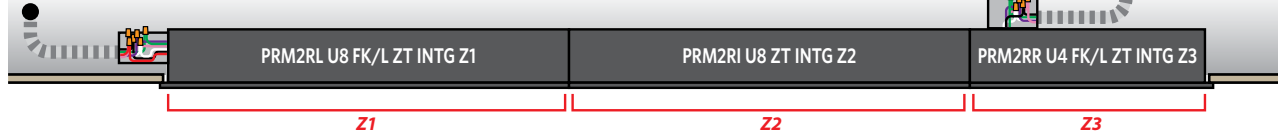


PRM2R 12FT INTG ZT 8NS 4SNS

Up to 2 zones of 0-10V and switching control from a single INTG feed

More than Two Zones, INTG and SCT

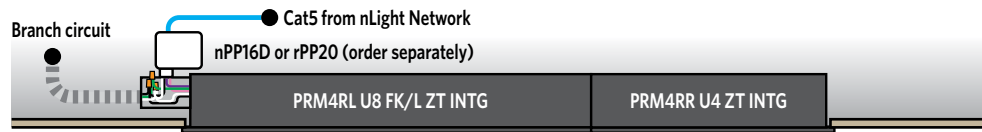
Branch circuit with 2x switched legs + 2x 0-10V



PRM2R 20FT INTG ZT 8NS 8SNS 4TNS

Up to 2 zones of 0-10V and switching control from each INTG feed. A third zone requires an additional feed.

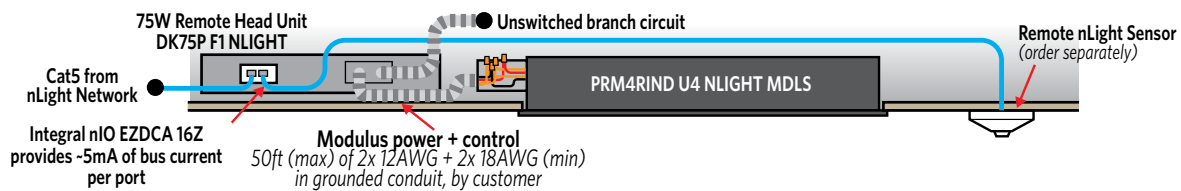
External nLight (wired or wireless) controls, INTG



PRM4R 12FT INTG ZT

Order INTG ZT fixtures for use with external controls

MDLS and NLIGHT



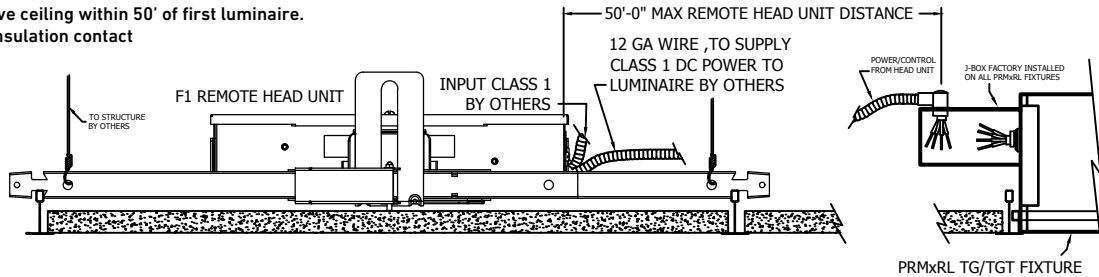
PRM4R 4FT MDLS NLIGHT

Up to 16 zones of control from a single head unit with Sensorview field commissioning

REMOTE HEAD UNITS

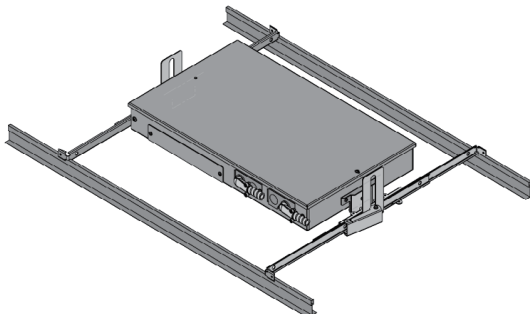
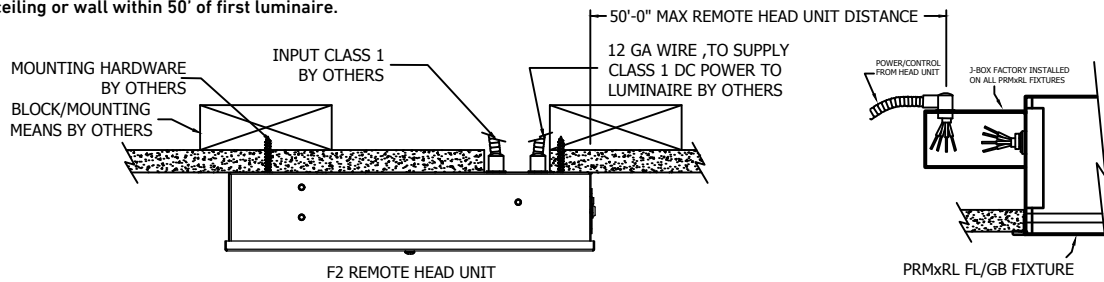
F1 MOUNTING DETAILS

Mount F1 head unit above ceiling within 50' of first luminaire.
F1 head unit rated for insulation contact

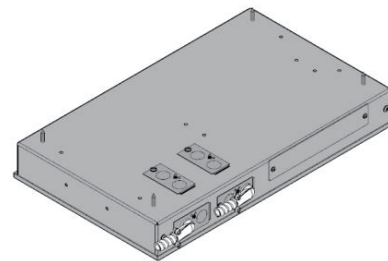


F2 MOUNTING DETAILS

Mount F2 head unit to ceiling or wall within 50' of first luminaire.



F1 GRID MOUNT

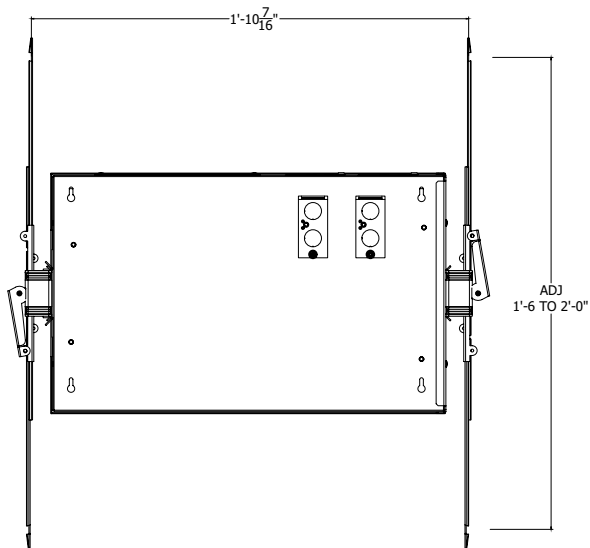


F2 CEILING MOUNT

REMOTE HEAD UNITS

F1 HEAD UNIT DETAILS

MOUNTING LOCATIONS

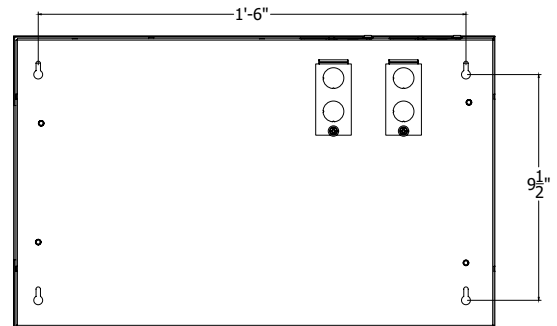


OVERALL DIMENSIONS

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

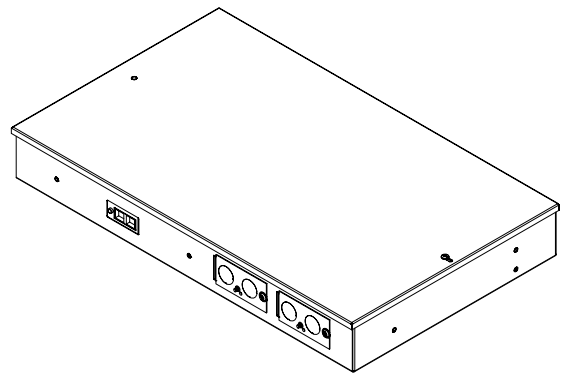
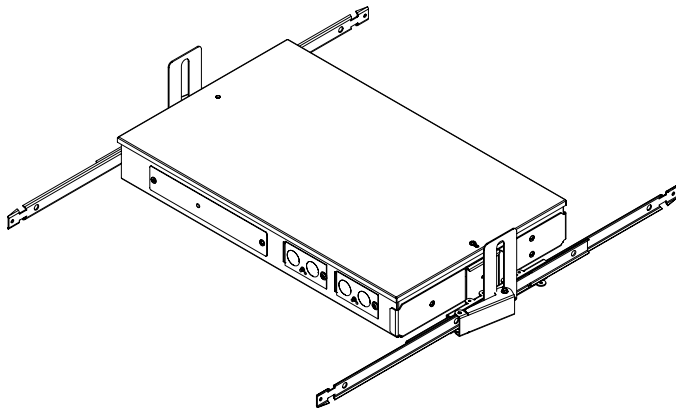
F2 HEAD UNIT DETAILS

MOUNTING LOCATIONS



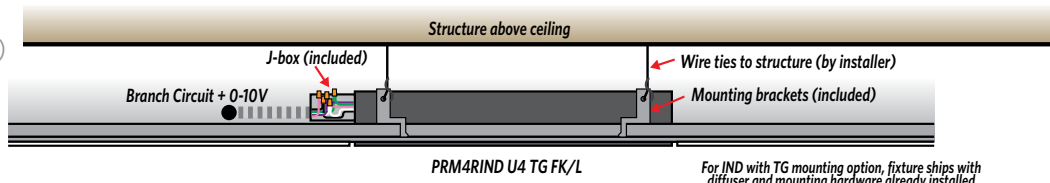
OVERALL DIMENSIONS

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



TYPICAL BUILDING LAYOUT

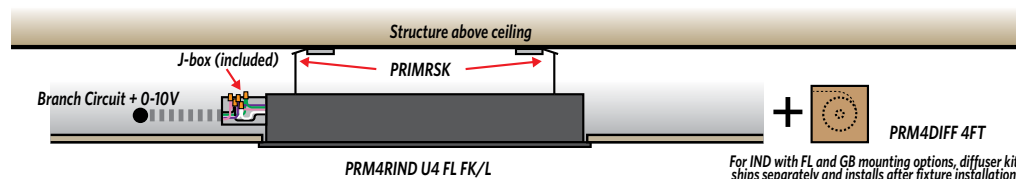
Individual -
INTG (TG/TGT)



PRM4R 4FT TG INTG ZT

For TG/TGT mounting, Individual (IND) fixtures will ship if total run length matches 4, 6, or 8FT. IND is available for Recessed TG only in 4, 6, and 8ft lengths for INTG and MDLS.

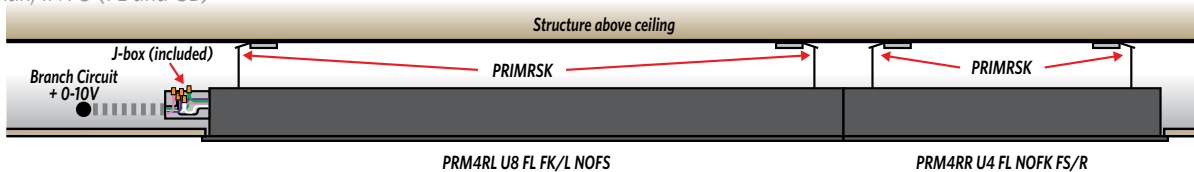
Individual -
INTG (FL and GB)



PRM4R 4FT FL INTG ZT

IND is available for Recessed FL and GB in 4ft lengths only. Install-from-below requires access above the diffuser, so it ships separately for field installation even for Individual fixtures. Lengths other than 4ft will ship as a run of multiple fixtures.

Run, INTG (FL and GB)

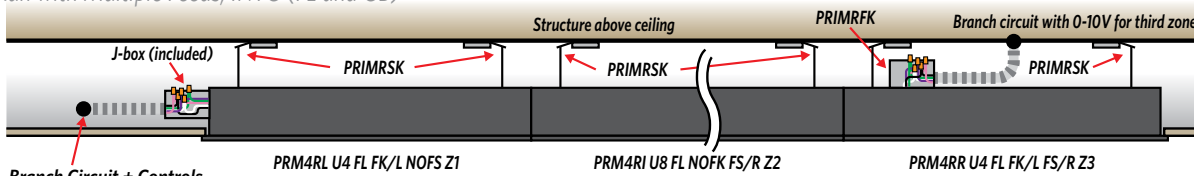


PRM4R 12FT FL INTG ZT

Runs are always fed from the left (PRMxRL). Power and controls pass from fixture to fixture with a combined harness connector.

Diffuser kit ships separately and installs after fixture installation for all runs
PRM4DIFF 12FT

Run with Multiple Feeds, INTG (FL and GB)

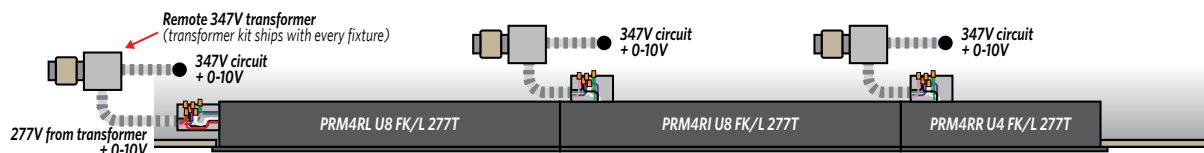


PRM4R 16FT FL INTG ZT NS4 SNS8 TNS4

Additional feeds might be required based on length of run, power consumption, and zoning requirements. In this example, a third control zone requires an additional mid-run feed. 1x PRIMRFX feed kit ships with each mid/end-run feed fixture (e.g., PRM4RR...FK/L).

Diffuser kit ships separately and installs after fixture installation for all runs
PRM4DIFF 16FT

INTG and 347V



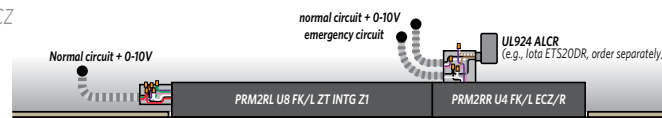
PRM4R 20FT INTG ZT 347

347V is achieved with the standard Peerless remote step-down transformer kit. Every fixture gets its own feed and transformer kit, and fixtures will have "277T" in their nomenclature.

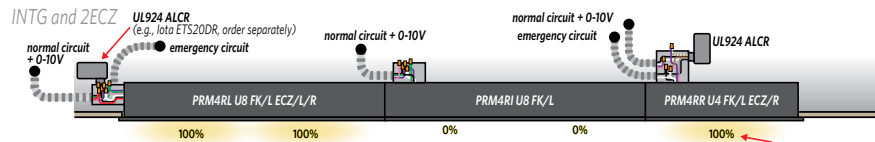
EMERGENCY OPTIONS

Choose nomenclature from these columns					
Emergency Configurations	Driver Type	Emergency Type	Emergency Behavior	Emergency Accessories Required	Notes
	MDLS	+ E35INV	= All drivers to 10%	Iota IIS-35-HE Micro-inverter and ETS-DR included with head unit. Whole system is UL924-listed	Select for California Title 20-compliant local battery backup installations. Run length per DK320P head unit is reduced by about 50%
	MDLS	+ E50INV	= All drivers to 10%	Iota IIS-50-I Micro-inverter and ETS-DR included with head unit. Whole system is UL924-listed	Select for non-California Title 20-compliant local battery backup installations. Run length per DK320P head unit is 80-100% of non-emergency head units
	MDLS	+ _EC	= Direct drivers in EC/x sections to 100%, all others to 0%	Iota ETS-DR included in head unit. Whole system is UL924-listed	Run emergency and normal circuits to EC head units. EC head units will pull 100% of normal load over the emergency circuit. Load drops to just the energized driver load on loss of normal power.
	INTG	+ _ECZ	= All drivers in ECZ/x sections to 100%, all others turn off	Order Iota ETS20-DR (*277G8R) or other UL924 ALCR and install on inputs to all ECZ/x sections (not included with luminaires).	Each ECZ/x fixture is independently fed from an emergency circuit. Mid-run emergency sections require additional normal feeds after each emergency section

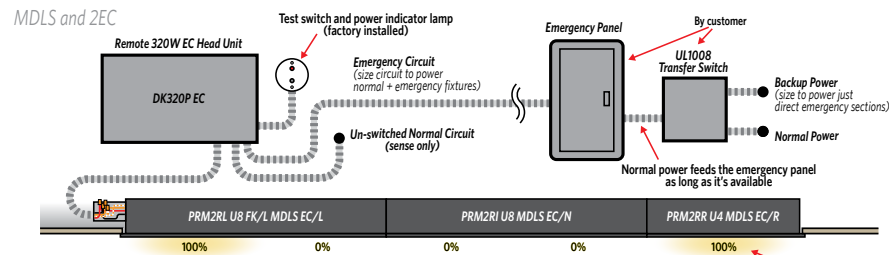
INTG and 1ECZ



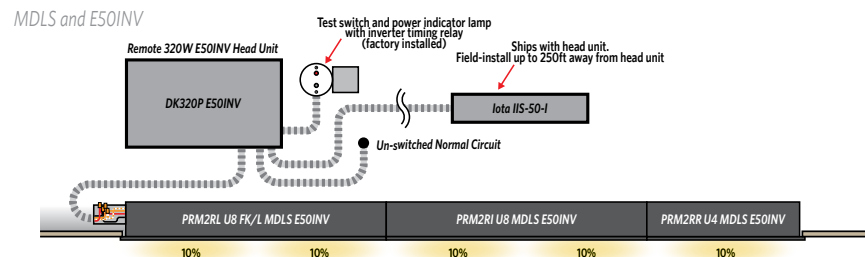
PRM2R 12FT INTG ZT 1ECZ
ECZ/x fixtures have their own feed and don't pass power or controls to adjacent fixtures. All drivers in ECZ/x fixtures are powered during loss of normal power



PRM4R 20FT INTG ZT 2ECZ
ECZ/x fixtures have their own feed and don't pass power or controls to adjacent fixtures, so normal fixtures in the run to the right of ECZ fixtures require an additional normal power feed



PRM2R 20FT MDLS 2EC
During loss of normal power, load will reduce to just the sum of direct emergency sections (EC/L or EC/R fixtures). EC/N fixtures will only consume standby power during emergency operation.



PRM2R 20FT MDLS E50INV
All fixtures go to 10% of nominal output during loss of normal power. As long as your nominal design provides at least 10FC from the fixtures at full brightness, egress lighting levels will be 1FC minimum. E35INV system behavior is the same.

Recommended Emergency Accessory

For EC + ZT must provide an external emergency control device. (*277G8R) ETS20 DR Emergency Control Device is recommended.