



The MLR2 Series is a compact and sleek luminaire that is ideal for spaces requiring clean lines and contemporary design. MLR2 combines excellent light performance with improved energy efficiency, making it the perfect lighting design tool.

MLR2 fits into most grid ceiling systems, including the Armstrong TechZone[™] system. In addition, the MLR2 offers multiple mounting and lens options, allowing for greater intelligent design.

Project Name:	

Catalog Number:

SPECIFICATIONS







Housing

Constructed of three-piece extruded aluminum and available in single sections of 2', 3', 4', 5', 6', 7' and 8' long. Continuous rows, custom lengths and patterns are available in increments down to 1".

Standard flange finish is white. Custom flange colors are also available.

Lens/Distribution

(LOH) LED-optimized high transmittance acrylic snap-in lens. Standard distribution. Used for Flush Lens and Regressed Lens fixtures.

(BW) Batwing lens. Translucent acrylic snap-in lens with internal prisms creating a batwing shape distribution.

(WW) Wall Wash lens. Translucent acrylic snap-in lens with internal prisms creating an asymmetric shape distribution.

(AL1) Accent lens - 3/8" drop. White acrylic snap-in lens extends 3/8" below ceiling line.

(AL2) Accent lens - 1-3/8" drop. White acrylic snap-in lens extends 1-3/8" below ceiling line.

Reflector

Precision die-formed aluminum reflector finished with a high reflectance white enamel.

Certifications

Fixtures are ETL listed for use in 'Dry or Damp Applications'. Fixtures conform to UL Standard #1598 and to CAN/CSA #C22.2NO.250.0 Fixtures are IC (Insulation Contact) rated.

Color Temperatures/CRI

LED light sources are available for the following Co-ordinated Color Temperatures (CCT): Standard: 2700K, 3000K, 3500K, 4000K, & 5000K Tunable White: Variable CCT range from 2700K thru 6500K.

RGBW: (Red, Green, Blue, White) color-changing logic module is rated at max. 10 watts/ft, and available in standard High and Medium Outputs. Contact factory for available custom outputs.

Color Rendering Index (CRI): Standard: 80 Optional: 90

Warranty

10-year limited warranty. No other warranty is expressed or implied. Complete warranty terms can be accessed by visiting: https://pal-lighting.com/company/warranty

Revit Files

Revit model (BIM) files for the MLR2 Series are available by visiting:

https://pal-lighting.com/files/Microlinea_Recessed/MLR2_Grid_Ceiling_Revit_Files.zip

MLR2 - Fixture Performance

Lumen Outputs Available		Standard High Output				Standard Medium Output						
Fixture / Lens Style	MLR2 [†] Flush Lens	MLR2 [†] Batwing Lens	MLR2 [†] Wall Wash Lens	MLR2RG [†] Regress Lens (1" Regress)	MLR2 - AL1 [†] Accent Lens (3/8" Drop)	MLR2 - AL2 [†] Accent Lens (1-3/8" Drop)	MLR2 [†] Flush Lens	MLR2 [†] Batwing Lens	MLR2 [†] Wall Wash Lens	MLR2RG [†] Regress Lens (1" Regress)	MLR2 - AL1 [†] Accent Lens (3/8" Drop)	MLR2 - AL2 [†] Accent Lens (1-3/8" Drop)
Delivered Lumens/Foot - Standard	677	714	696	545	680	687	463	488	478	372	465	469
Input Watts/Foot - Standard	7	7	7	7	7	7	5	5	5	5	5	5
Lumens/Watt - (Efficacy) - Standard	96	105	103	79	99	100	99	107	105	80	100	101
Custom Lumens/Ft - Minimum thru Maximum Available*	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150	480 - 1150

- † Data listed above is based on using 4000K CCT and 80 CRI LED modules.
- -* PAL uses fully programmable drivers. Questions? Contact us at specs@pallighting.com
- All values are based on calculated LM-79 photometric reports.













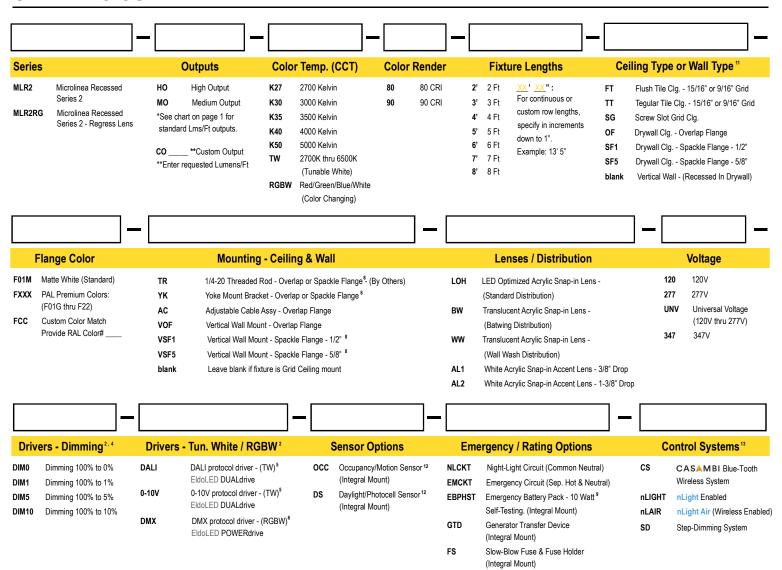








ORDERING GUIDE



Notes:

- All fixtures are factory pre-wired for a single circuit. Provisions for multiple switching/circuiting is optional.
- Unless otherwise requested, all fixtures contain integral-mount "power-on-board" drivers and emergency battery packs.
- All fixtures intended for continuous rows are provided with factory installed quick-connect wiring.
- Standard power supply (driver) is UL/CUL recognized, and is available with 0-10V dimming capability and 120 thru 277 universal voltage.
- Tunable White power supply (driver) by EldoLED is UL recognized, and is compatible with DALI, DMX, and 0-10V protocols.
- RGBW power supply (driver) by EldoLED is UL recognized, and is compatible with DALI and DMX protocols.
- 7. All MLR2 recessed fixtures carry an "IC" Insulation Contact Rating.
- Note: Spackle Flange fixtures are not intended for post-ceiling or wall installation. (Fixtures must be mounted prior to installation of the ceiling or wall.)
- Standard emergency battery pack is a 10 Watt constant power, self-testing, UL 924 listed pack from either lota Engineering or Philips/Bodine, providing a minimum of 1000 lumens of light for approximately 90 minutes. Battery packs are integral mount unless otherwise notified. "Note: Remote mounted battery packs are not wet location listed.

CP

Chicago Plenum Listing

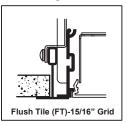
- Custom length fixtures and fixtures rows may require a longer lead time. Questions? Contact specs@pallighting.com.
- 11. MLR2 fits into Armstrong TechZone™ ceiling systems.
- Unless otherwise specified, PAL routinely uses the following integral-mount sensors:
 - A. nLight AIR #rES7 sensor by nLight/Acuity Brands
 - B. Vertex sensor by SensorSwitch/Acuity Brands
 - C. SensiLUM sensor by Encelium/LeGrand
 - D. FS-205 and FD-301 sensors by WattStopper/Legrand D. Casambi integral-mount sensor.
 - Sensors listed above are either occupancy/motion type, daylight/photocell type, or are a combination of the two.
- Other Control Systems are available. Questions? Contact specs@pallighting.com for more information.

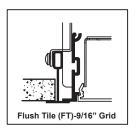


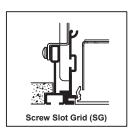


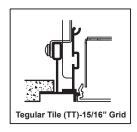
CEILING & VERTICAL WALL TRIMS

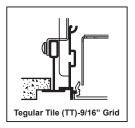
Grid Ceiling Mount



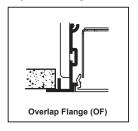


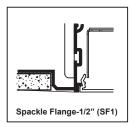


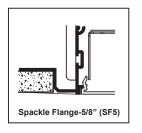




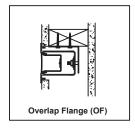
Drywall Ceiling Mount

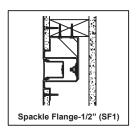


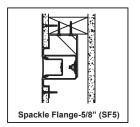




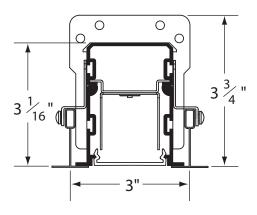
Drywall - Wall Mount



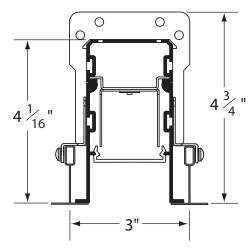




TECHNICAL DRAWINGS

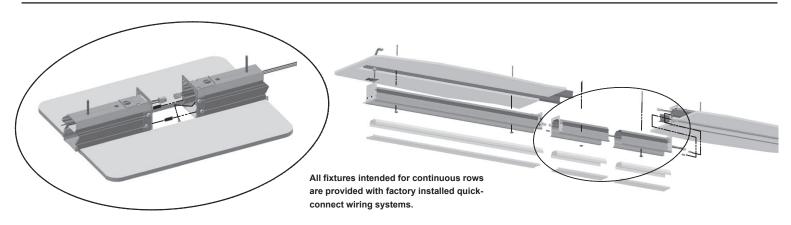


MLR2 - Flush or Accent Lens (Shown with Flush Lens)



MLR2RG - Regressed Lens

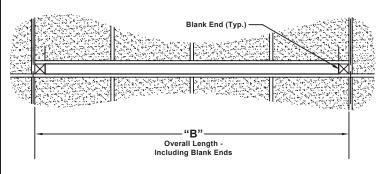
QUICK-CONNECT WIRING





ROW GUIDES - SINGLE FIXTURES & CONTINUOUS ROWS

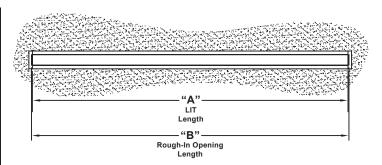
NOMINAL LENGTH	DIM "B" INCLUDES BLANK ENDS		RRANGEMENT - EILING MOUNT		
2'	23-13/16"	2	Single Fixture Housing		
3'	35-13/16"	③ s	Single Fixture Housing		
4'	47-13/16"	(4) S	Single Fixture Housing		
5'	59-11/16"	3 2 8	Single Fixture Housing		
6'	71-11/16"	3 3 8	Single Fixture Housing		
7'	83-11/16"	4 3	Single Fixture Housing		
8'	95-11/16"	(4) (4) S	Single Fixture Housing		
9'	107-3/4"	3 3 3			
10'	119-3/4"	4 3 3			
12'	143-3/4"	3 3 3 3			
14'	167-3/4"	4 4 3 3			
16'	191-3/4"	4 3 3 3 3	3		
		Contact specs@pallighting.com For Rows Longer Than 16'			



To view the GRID CEILING MOUNT installation sheet, visit:

https://pal-lighting.com/files/Microlinea_Recessed/3750114_PG_1-2-3-4_MLR2-3-5_LED-GRID.pdf

NOMINAL LENGTH	DIM "A" LIT LENGTH	DIM "B" ROUGH-IN OPENING	ROW ARRANGEMENT - DRYWALL - OVERLAP FLANGE MOUNT			
			_			
2'	22-13/16"	23-9/16"	Single Fixture Housing			
3'	34-13/16"	35-9/16"	3 Single Fixture Housing			
4'	46-13/16"	47-9/16"	Single Fixture Housing			
5'	57-5/8"	58-3/8"	3 2 Single Fixture Housing			
6'	69-5/8"	70-3/8"	3 3 Single Fixture Housing			
7'	81-5/8"	82-3/8"	(4) 3 Single Fixture Housing			
8'	93-5/8"	94-3/8"	(4) (4) Single Fixture Housing			
9'	106-3/4"	107-1/2"	3 3 3			
10'	118-3/4"	119-1/2"	4 3 3			
12'	142-3/4"	143-1/2"	3 3 3			
14'	166-3/4"	167-1/2"	4 4 3 3			
16'	190-3/4"	191-1/2"	4 3 3 3 3			
			Contact specs@pallighting.com For Rows Longer Than 16'			



To view the DRYWALL - OVERLAP FLANGE MOUNT installation sheets, visit:

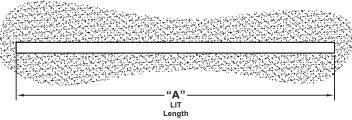
https://pal-lighting.com/files/Microlinea_Recessed/3750115_Page_1-2-3-4_MLR2-3-5_OVERLAP_FLANGE.pdf
and

 ${\it https://pal-lighting.com/files/Microlinea_Recessed/3750117_PG_1-2_MLR_VERT_OF_WALL_INSTALL.pdf}$

NOMINAL LENGTH	DIM "A" LIT LENGTH	ROW ARRANGEMENT - DRYWALL - SPACKLE FLANGE MOUNT				
2'	00.40/401	2	Oinele Finture Hamiles			
2'	22-13/16"		Single Fixture Housing			
3'	34-13/16"	3	Single Fixture Housing			
4'	46-13/16"	4	Single Fixture Housing			
5'	57-5/8"	3 2	Single Fixture Housing			
6'	69-5/8"	3 3	Single Fixture Housing			
7'	81-5/8"	4 3	Single Fixture Housing			
8'	93-5/8"	(4) (4)	Single Fixture Housing			
9'	106-3/4"	3 3 3				
10'	118-3/4"	4 3 3				
12'	142-3/4"	3 3 3 3				
14'	166-3/4"	4 4 3 3				
16'	190-3/4"	4 3 3 3	3			
		Contact specs@palligi	hting.com For Rows Longer Than 16'			



Spackle Flange Mount fixtures must be installed PRIOR to ceiling installation.



To view the DRYWALL - SPACKLE FLANGE MOUNT installation sheets, visit: https://pal-lighting.com/files/Microlinea_Recessed/3750116_Page_1-2-3-4_MLR_SPACKLE_FLANGE_ INSTALL-4_PAGES.pdf

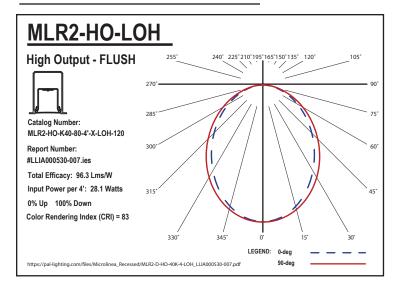
- and -

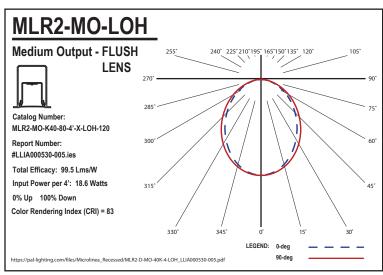
https://pal-lighting.com/files/

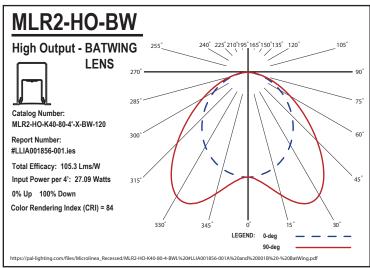
Microlinea_Recessed/3750118_PG_1-2_MLR_VERT._SF_WALL_INSTALL.pdf

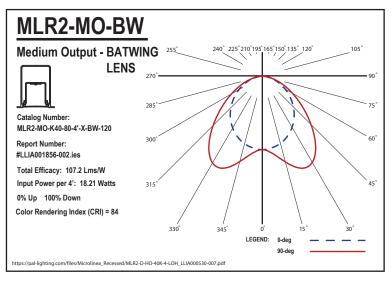


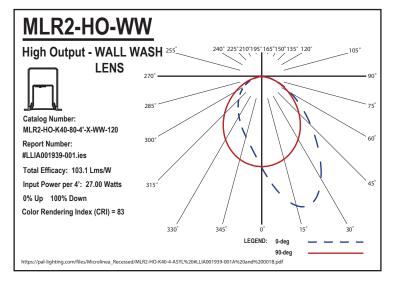
LIGHT DISTRIBUTIONS

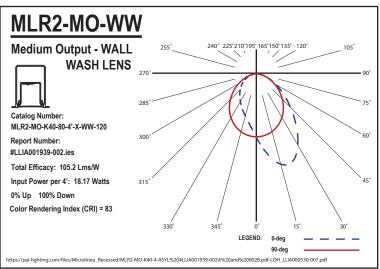






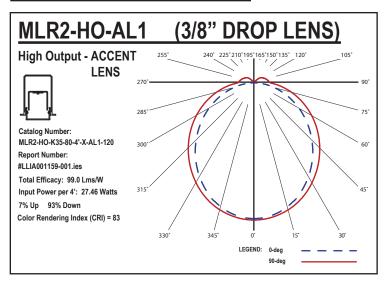


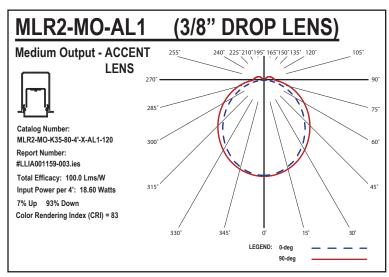


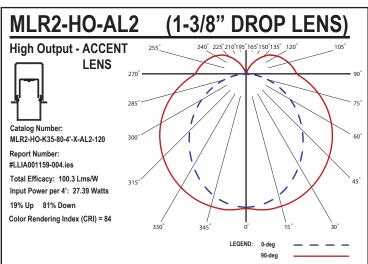


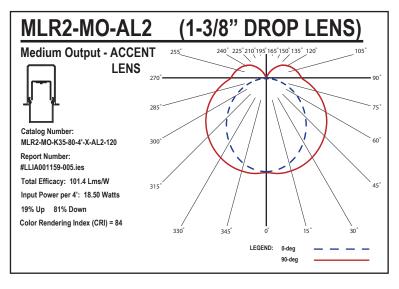


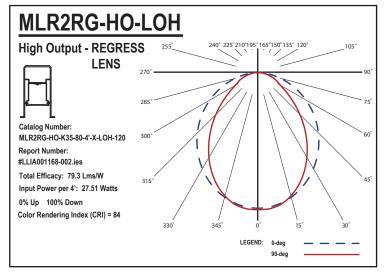
LIGHT DISTRIBUTIONS

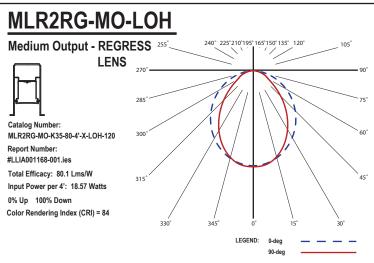








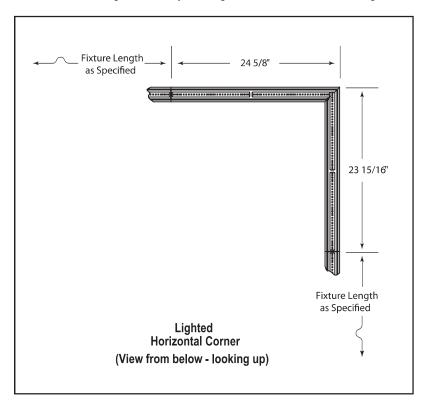


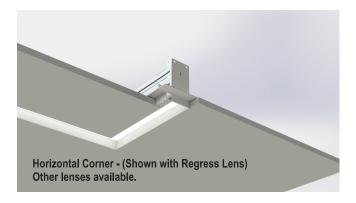




LIGHTED CORNERS

Horizontal extruded aluminum 90° corners are available for use when ceiling mounted recessed fixture patterns are desired. Standard corners are available in nominal 2' X 2' long continuously lit configurations. Vertical wall-to-ceiling 90° corners are also available.







*Note: Custom angle corners are available. Contact specs@pallighting.com for more information.

