

# MIKRO - PATTERNS

RECESSED



**LUMENWERX**  
WWW.LUMENWERX.COM

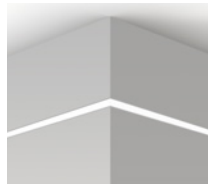
ONLY 1 INCH WIDE



LEV - leveled corner



INN - inner corner



OUT - outer corner

## DESCRIPTION

Precise, refined, elegant, and just 1" wide, Mikro presents a crisp, brand new scale in linear LED luminaires, made practical by an integral driver -

**Mikrodrive™**. Using a high performance LEDs and a flat, high efficiency lambertian optic, Mikro delivers an efficacy of 95 LPW. In addition to patterns with fully lighted corners and a wide range of ceiling trim details., Mikro is also available in pendant, wall, and surface configurations (see separate specification sheets).

PROJECT: \_\_\_\_\_

TYPE: \_\_\_\_\_

NOTES: \_\_\_\_\_

IC RATED

INTEGRATED™  
**MIKRODRIVE**

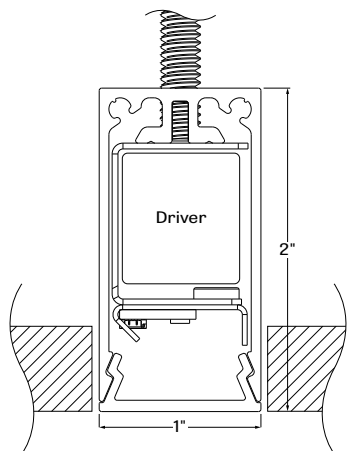
## ORDER GUIDE

MIKRPAT	HLO	LED				
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.	PATTERN LENGTH
MIKRPAT - Mikro Recessed pattern	HLO - High-efficiency Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	350 - min. low output 350lm/ft 500 - max. medium output 500lm/ft #### - other required lm/ft	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	#FT#IN - Specify nominal length (#) in 1' and/or 1" increments Continuous Run - for luminaires over 12' Minimum individual section 4'

			MIKDR				
CORNER TYPE	CORNERS DEGREE	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
INN - inner corner OUT - outer corner LEV - leveled corner	90 - 90 degrees # - other degrees	120 - 120V 277 - 277V UNV - 120V-277V	MIKDR - 0-10V mikro driver	1 - 1 circuit +EM* - emergency light circuit * for a minimum of 4' section	DTL - drywall trimless DMF - drywall mud flange	W - matte white CF# - custom finish specify RAL#	CP - Chicago Plenum CU - custom

See page 2 for ordering code detailed information

## CROSS SECTION

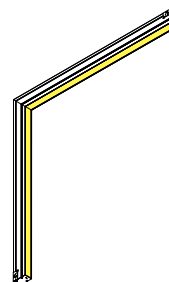


MIKRPAT - recessed

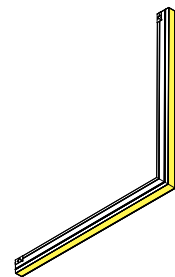
## 3D VIEW



LEV - leveled corner



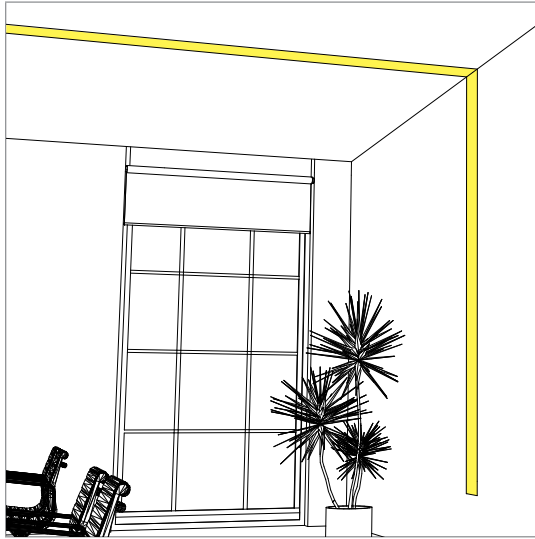
INN - inner corner



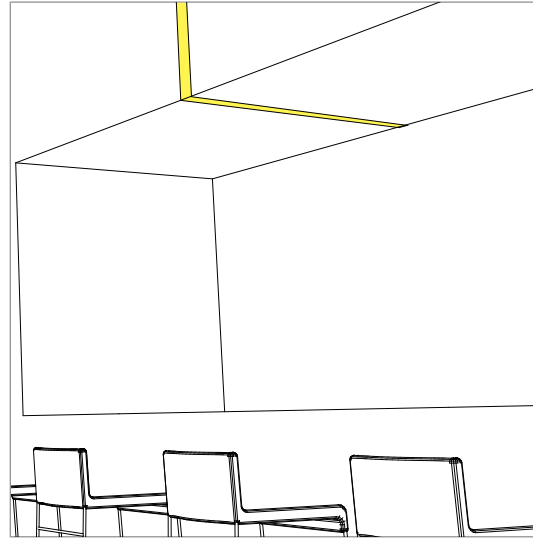
OUT - outer corner



### INNER CORNER



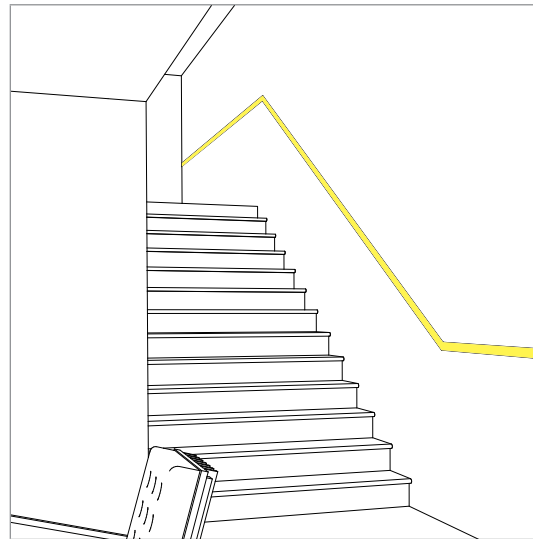
### OUTER CORNER



### LEVELED CORNER - CEILING



### LEVELED CORNER - WALL



### HOW TO SPECIFY A PATTERN?

Please follow these steps when specifying in order to be as precise as possible.

- (1) We require a drawing illustrating the pattern you are trying to achieve - anything from a simple line drawing to elaborate architectural drawings will suffice.
- (2) Under **PATTERN LENGTH**, enter the overall length of your pattern - either in feet or inches.
- (3) Under **CORNER TYPE**, please enter the type (or types) of corner you require. If more than one type of corner is required, please separate types with a plus (+).
- (4) Under **CORNERS DEGREE**, please enter the angle in degrees of each corner required to complete your pattern (for example 90+90+90).

PATTERN LENGTH	CORNER TYPE	CORNERS DEGREE
#FT#IN - Specify nominal length (#) in 1' and/or 1" increments Continuous Run - for luminaires over 12'	INN - inner corner OUT - outer corner LEV - leveled corner	90 - 90 degrees # - other degrees

### OPTICS

**HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO)** - matte white side reflectors combined with High-efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic and good source obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio.

### LIGHT SOURCE - LED

Custom linear array of mid-flux LEDs are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

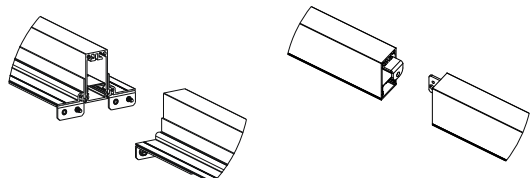
### PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	14.5	1400	95
medium output	4000K	21.5	2000	94

### PATTERN LENGTH

Mikro is made up of standard 4, 8 and 12 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 foot. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

### Joining system



Mud flange

Trimless

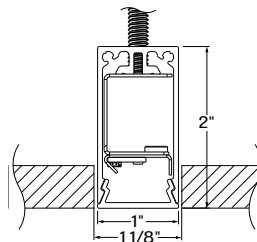
### ELECTRICAL - INTEGRATED DRIVER

Fully integrated, ultra-slim, **Mikrodrive™** driver eliminates the need for the remote drivers typical of very small cross-section luminaires. Factory-adjustable drive current and universal (120-277VAC) input. Long life: over 100,000 hours Mean Time Between Failures (MTBF). At maximum driver load: Efficiency > 84%, PF > 0.9, THD < 20%. Due to space limitations, other driver, control and wiring options are not currently available.

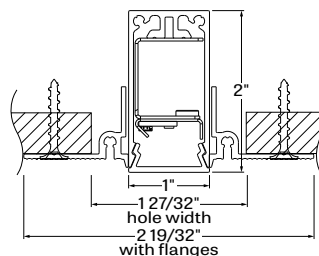
### MOUNTING OPTIONS

#### Mounting Ceiling

Mounting for drywall ceilings are available with mud flange or trimless



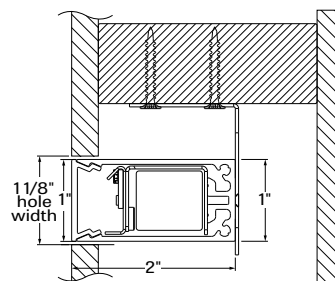
DTL - drywall trimless



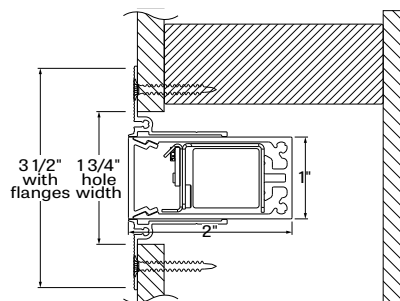
DMF - drywall mud flange

#### Mounting Wall

Recessed Wall Mounting for drywall is available with mud flange trim or trimless



DTL - drywall trimless



DMF - drywall mud flange

### FINISH

**Interior** - 95%, reflective matte powder coated white paint

**Exterior** - matte white or aluminum powder coating.

Custom finishes are also available.

### CONSTRUCTION

**Housing** - Extruded aluminum (0.060" nominal) up to 90% Recycled content

**Interior brackets** - Die formed cold rolled sheet steel 20 gauge thick

**Joining system** - Die Formed galvanized sheet 20 gauge

**Reflectors** - Flat rolled Steel sheet 0.030" thick precisely die formed, 95% reflective matte white painted

**Mud flange** - Extruded aluminum (0.075" nominal) up to 90% Recycled content

**End caps** - Die cast aluminum

### WEIGHT

**Mikro 4ft** - 3.64 lbs - 1.65 KG

**Mikro 8ft** - 6.36 lbs - 2.88 KG

**Mikro 12ft** - 9.08 lbs - 4.12KG

### CERTIFICATIONS

**ETL** - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

**Chicago plenum** - City of Chicago Approved (CCEA)

**IC rated** - suitable for direct contact with insulation.

### WARRANTY

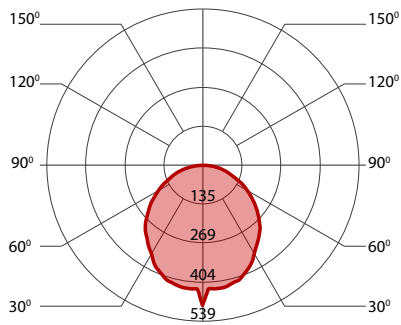
Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

# MIKRO - PATTERNS

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**LUMENWERX**  
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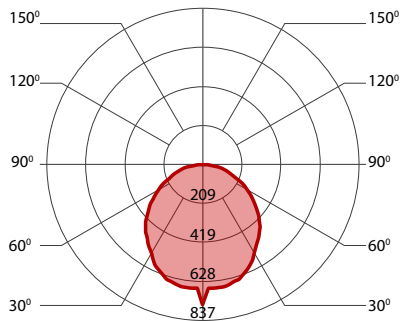
## 350 LUMEN AT 80CRI - LOW OUTPUT



### PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	3000K	15.5	1400	91
low output	3500K	15	1400	92
low output	4000K	14.5	1400	95

## 500 LUMEN AT 80CRI - MEDIUM OUTPUT



### PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	22	2000	90
medium output	3500K	22	2000	91
medium output	4000K	21.5	2000	94