

# MIKRO - PATTERNS

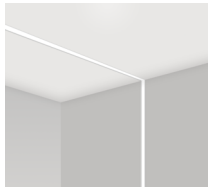
RECESSED

**LUMENWERX**  
WWW.LUMENWERX.COM

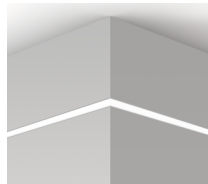
ONLY 1 INCH WIDE



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: \_\_\_\_\_

## ORDER GUIDE

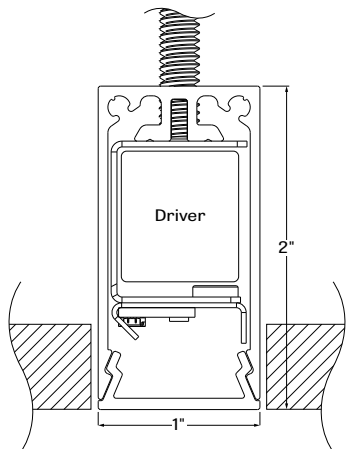
**IC RATED**  
**INTEGRATED™**  
**MIKRODRIVE**

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

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

See page 2 for ordering code detailed information

## CROSS SECTION

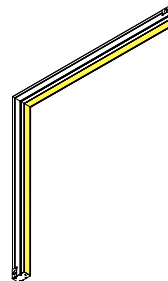


MIKRPAT - recessed

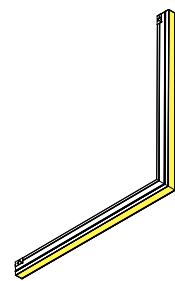
## 3D VIEW



LEV - leveled corner



INN - inner corner

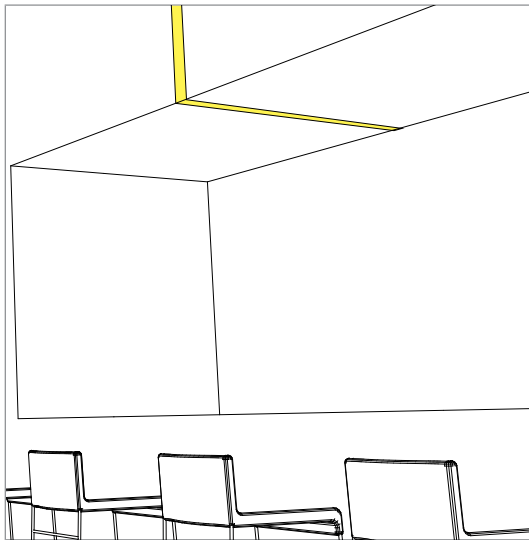


OUT - outer corner

**INNER CORNER**



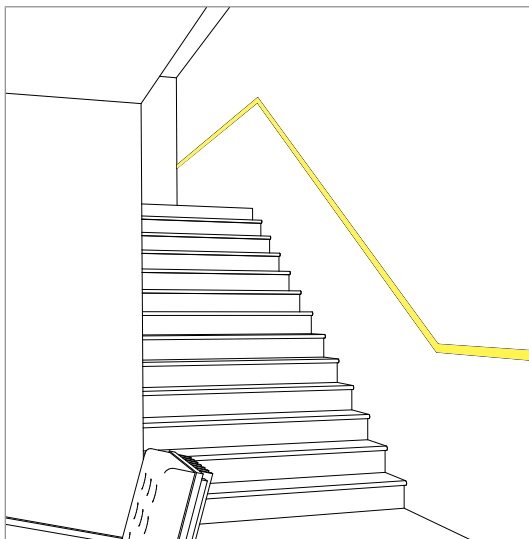
**OUTER CORNER**



**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                                     |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>#FT#IN</b> - Specify nominal length (#) in ' and/or 1" increments<br>Continuous Run - for luminaires over 12' | <b>INN</b> - inner corner<br><b>OUT</b> - outer corner<br><b>LEV</b> - leveled corner | <b>90</b> - 90 degrees<br><b>#</b> - 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.

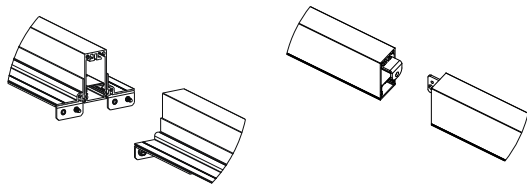
### PERFORMANCE PER 4' AT 4000K

| 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

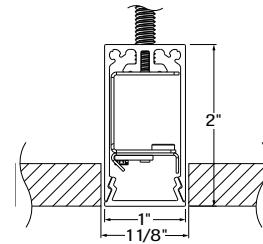
### ELECTRICAL - INTEGRATED DRIVER

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.

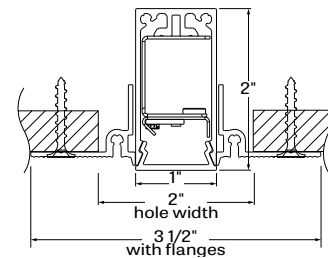
### MOUNTING OPTIONS

#### Mounting Ceiling

Mounting for drywall ceilings are available with mud flange or trimless



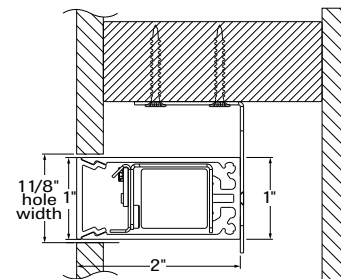
DTL - drywall trimless



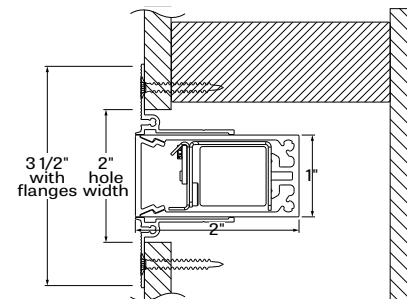
DMF - drywall mud flange

#### 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

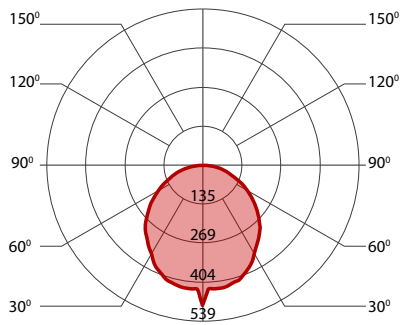
Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated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

# MIKRO - PATTERNS

RECESSED

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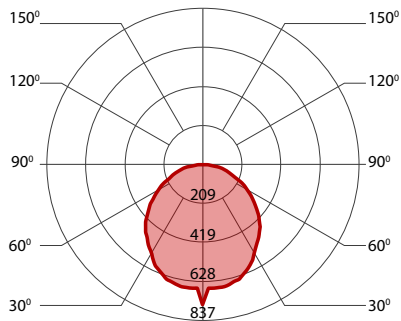
## 350 LUMEN AT 80CRI - LOW OUTPUT



### 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           |