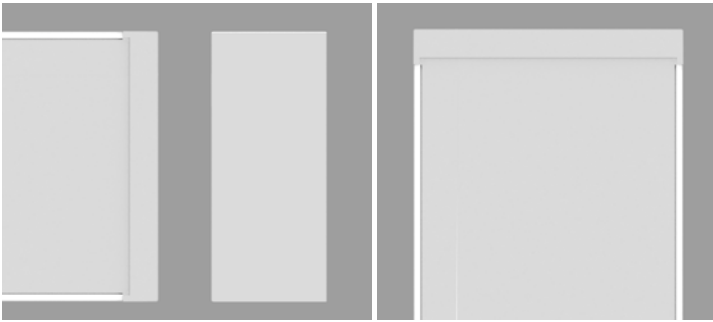# MIKRO LED

WALL DIRECT/INDIRECT

LUMENWERX
WWW.LUMENWERX.COM

ONLY 1 INCH WIDE

INTEGRATED™
MIKRODRIVE

PROJECT: _____

_____

TYPE: _____

NOTES: _____

_____

ada compliant

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 individual luminaires, continuous runs and patterns with fully lighted corners, Mikro is also available in recessed, surface, and pendant configurations (see separate specification sheets).

ORDER GUIDE

MIKWDI	**HLO**	**LED**				
LUMINAIRE ID	**OPTICS**	**LIGHT SOURCE**	**CRI**	**DIRECT LUMEN PACKAGES**	**IND. LUMEN PACKAGES**	**COLOR TEMP.**
MIKWDI - Mikro Wall direct indirect	**HLO** - High-efficiency Lambertian Optic	**LED** - high performance LED	**80** - 80CRI **90** - 90CRI	**350** - min. low output 350lm/ft **500** - medium output 500lm/ft **700** [1] - max. high output 700lm/ft **####** - other required lm/ft	**350** - min. low output 350lm/ft **500** - medium output 500lm/ft **700** [1] - max. high output 700lm/ft **####** - other required lm/ft	**27** - 2700K **30** - 3000K **35** - 3500K **40** - 4000K
				[1] The max. high output (700lm/ft) can only be combined with 500lm/ft output or less.		

		MIKDR		**DMB**		
LUMINAIRE LENGTH	**VOLTAGE**	**DRIVER**	**ELECTRICAL**	**MOUNTING**	**FINISH**	**OPTIONS**
Standard sections - 4', 8' & 12' For all other specify length **#FT#IN** - Specify nominal length (#) in 1' and/or 1" increments Continuous Run - for luminaires over 12' Minimum individual section 4'	**120** - 120V **277** - 277V **UNV** - 120V-277V	**MIKDR** - 0-10V mikro driver	**1** - 1 circuit **2** - 2 circuits **+#EM*** - emergency light circuit * for a minimum of 4' section	**DMB** - drywall mounting bracket	**W** - matte white **AL** - aluminum **CF#** - custom finish specify RAL#	**CU** - custom

CROSS SECTION

Driver

2 31/32"

3/8" 1"
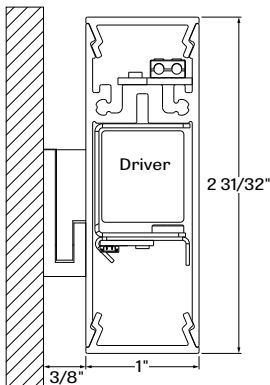
MIKWDI - wall - DMB

OPTICS

HLO - High-efficiency Lambertian Optic

ETL LISTED Intertek

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

Medium Indirect Output (1400 Lumens)

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	4000K	29.5	1400	1400	2800	95
medium output	4000K	36	2000	1400	3400	94
high output	4000K	44.5	2800	1400	4200	94

Low Indirect Output (2000 Lumens)

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	4000K	36	1400	2000	3400	94
medium output	4000K	42.5	2000	2000	4000	94
high output	4000K	51.5	2800	2000	4800	93

LUMINAIRE 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.
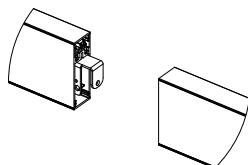
joining system for Mikro direct indirect

MOUNTING OPTIONS

Fixtures may be horizontally mounted directly to the wall or using a bracket. For long runs, a minimum of 6" from adjacent walls is required.

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.

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
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.

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 LED

WALL DIRECT/INDIRECT

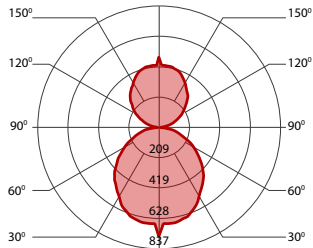## PERFORMANCE AT INDIRECT 350 LUMEN PER FOOT

350 LUMEN AT 80CRI - LOW OUTPUT
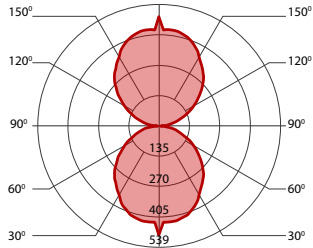
PERFORMANCE PER 4'

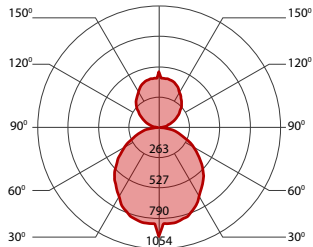| LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	3000K	31	1400	1400	2800	91
low output	3500K	30.5	1400	1400	2800	92
low output	4000K	29.5	1400	1400	2800	95

500 LUMEN AT 80CRI - MEDIUM OUTPUT

PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	38	2000	1400	3400	90
medium output	3500K	37	2000	1400	3400	92
medium output	4000K	36	2000	1400	3400	94

700 LUMEN AT 80CRI - HIGH OUTPUT

PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	3000K	47	2800	1400	4200	89
high output	3500K	46	2800	1400	4200	91
high output	4000K	44.5	2800	1400	4200	94

MIKRO LED

WALL DIRECT/INDIRECT

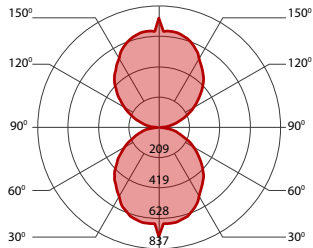## PERFORMANCE AT INDIRECT 500 LUMEN PER FOOT

350 LUMEN AT 80CRI - LOW OUTPUT
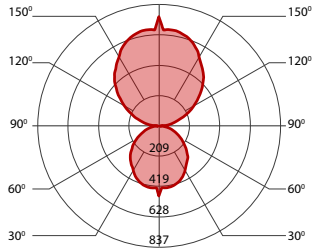
PERFORMANCE PER 4'

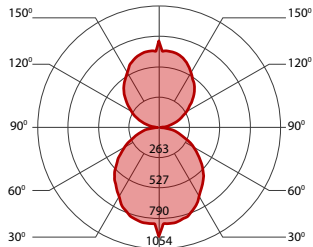| LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
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PERFORMANCE PER 4'

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700 LUMEN AT 80CRI - HIGH OUTPUT

PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	3000K	54	2800	2000	4800	89
high output	3500K	52.5	2800	2000	4800	91
high output	4000K	51.5	2800	2000	4800	93

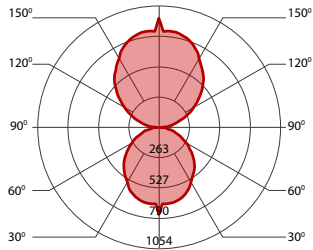## PERFORMANCE AT INDIRECT 700 LUMEN PER FOOT

350 LUMEN AT 80CRI - LOW OUTPUT
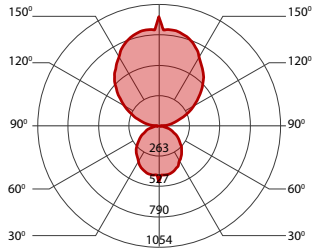
PERFORMANCE PER 4'

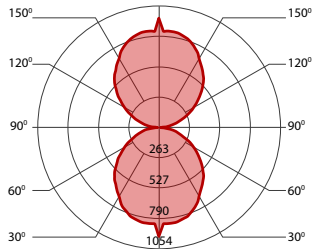| LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
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700 LUMEN AT 80CRI - HIGH OUTPUT

PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	3000K	63	2800	2800	5600	89
high output	3500K	62	2800	2800	5600	90
high output	4000K	60	2800	2800	5600	93