PENDANT DIRECT/INDIRECT

LUMENWERX W W W . L U M E N W E R X . C O M

ONLY 1 INCH WIDE

DESCRIPTION

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

PROJECT:	
TYPE:	
NOTES:	

LEDs and a flat, high efficiency

lambertian optic, Mikro delivers an efficacy of 95 LPW. In addition to individual luminaires and continuous runs, Mikro is also available in recessed, surface, and wall configurations (see separate specification sheets).

INTEGRATED™ MIKRODRIVE

ORDER GUIDE

MIKPDIPAT	HLO	LED				
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	DIR. LUMEN PACKAGES	IND. LUMEN PACKAGES	COLOR TEMP.
MIKPDIPAT - Mikro Pendant direct indirect pattern	HLO - High-efficiency Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	350 - min. low output 350lm/ft 500 - medium output 500lm/ft 700¹ - max. high output 700lm/ft #### - other required lm/ft	350 - min. low output 350lm/ft 500 - medium output 500lm/ft 7001 - max. high output 700lm/ft #### - other required lm/ft	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K
				¹ The max. high output (700lm/ft) of 500lm/ft output or less.		

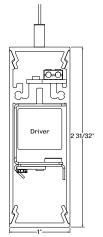
	LEV			MIKDR	
PATTERN LENGTH	CORNER TYPE	CORNERS DEGREE	VOLTAGE	DRIVER	ELECTRICAL
#FT#IN - Specify nominal length (#) in 1' and/or 1" increments	LEV - leveled corner	90 - 90 degrees	120 - 120V 277 - 277V	MIKDR - 0-10V	1-1 circuit 2-2 circuits
Continuous Run - for luminaires over 12'		# - other degrees	UNV - 120V-277V	mikro driver	+#EM *- emergency light circuit
Minimum individual section 4'					* for a minimum of 4' section

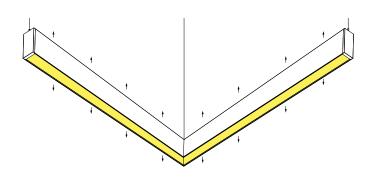
See page 2 for ordering code detailed information

53WAC36		
MOUNTING	FINISH	OPTIONS
53WAC36 - power 5" + non power 3" white canopy (36" air craft cable)	W - Matte white AL - Aluminum	CU - custom
For all other options refer to our Pendant	CF# - Custom finish specify	
Mounting Guide	RAL#	

CROSS SECTION

3D VIEW





MIKPDIPAT - air craft cable

LEV - leveled corner with end caps

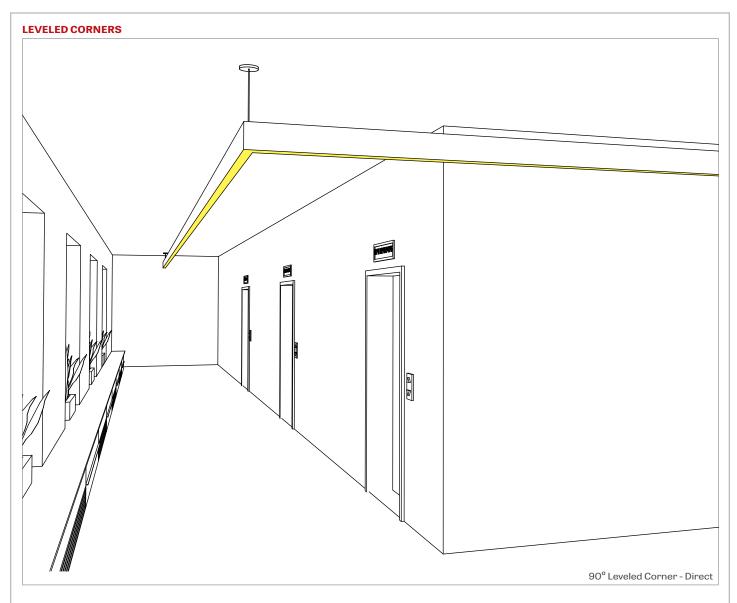
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PENDANT DIRECT/INDIRECT





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).

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

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PENDANT DIRECT/INDIRECT



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

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 for Mikro direct indirect

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

Fixtures can be pendant-mounted, using aircraft cables. Lumenwerx provides the following hardware: 5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" cable

For all other options, see our website for a detailed Pendant Mounting Guide

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

Hanger - Chromed Griplock securely attached with spring steel hardware in end caps and/or joiners

Air craft cable suspension - 7x7 braids aluminum air craft cable 0.06" thick

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.

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MADDANTY	
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.	
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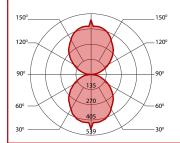


PENDANT DIRECT/INDIRECT



PERFORMANCE AT INDIRECT 350 LUMEN PER FOOT

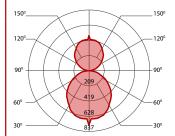
350 LUMEN AT 80CRI - LOW OUTPUT



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

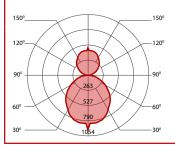
500 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4"

LED output	Color Temp	Watts	Direct Lumens		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

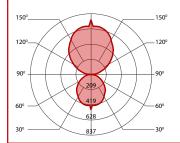


PENDANT DIRECT/INDIRECT



PERFORMANCE AT INDIRECT 500 LUMEN PER FOOT

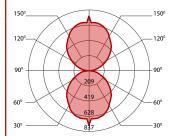
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PERFORMANCE PER 4'

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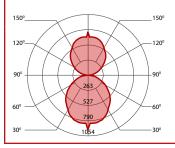
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PERFORMANCE PER 4"

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	3000K	44.5	2000	2000	4000	90
medium output	3500K	44	2000	2000	4000	91
medium output	4000K	42.5	2000	2000	4000	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	54	2800	2000	4800	89
high output	3500K	52.5	2800	2000	4800	91
high output	4000K	51.5	2800	2000	4800	93

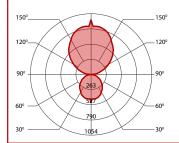


PENDANT DIRECT/INDIRECT



PERFORMANCE AT INDIRECT 700 LUMEN PER FOOT

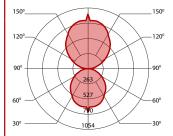
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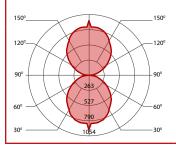
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medium output	4000K	51.5	2000	2800	4800	93

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

