UBIK

COMBINATION / PATTERN WALL
STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____

DESCRIPTION

Sleek square form meets superb function in Ubik, a lighting family designed to provide a multitude of creative options. With the Ubik Combination Wall luminaire, you can combine different optics and create patterns with corners to further enhance your lighting design. These compact 2" wide wall fixtures are offered with HLO and parabolic louver optics for direct illumination, and translucent optics for indirect diffusion.

ada compliant

5 YEAR WARRANTY 5

Up to 145 lm/W performance

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bios PoE WELL WELL

UBIK

COMBINATION / PATTERN WALL
STATIC WHITE, BIOS ST/DY

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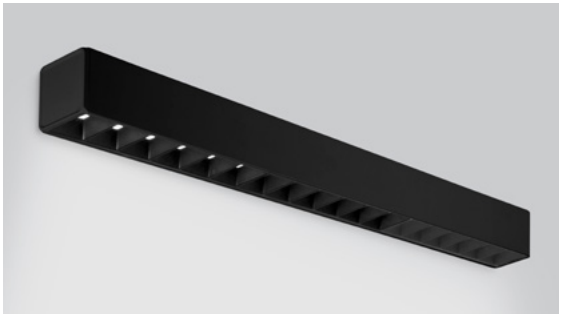
DIRECT OPTICS

Parabolic Louver

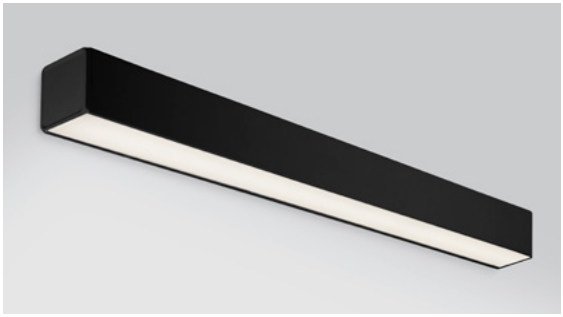


Matte White

Matte Silver

Matte Black

High-Efficiency Lambertian Optic



INDIRECT OPTICS

Translucent Indirect Optic

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UBIK COMBINATION

A drawing of your combination or pattern is required - anything from a line drawing to an architectural drawing. You can also use the grid on page 4 to sketch your layout.

-DMB

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTICS [2]	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE
Choose	Choose	**Specify the total length for each required optic.** **For a Pattern fixture, include the corner lengths in the total.**	Choose	Choose
UBICOMW - Ubik Combination Wall **UBICOMWPAT** [1] **-** Ubik Combination Pattern Wall [1] See the Ubik Pattern section on page 4 to complete the order code for a Pattern fixture.	**D -** Direct **DI -** Direct/Indirect	**MWPL -** Matte White Parabolic Louver 0 FT IN **MSPL -** Matte Silver Parabolic Louver 0 FT IN **MBPL -** Matte Black Parabolic Louver 0 FT IN **HLO -** High-Efficiency Lambertian Optic 0 FT IN **BLAW -** Blank White 0 FT IN **BLAS -** Blank Silver 0 FT IN **BLAB -** Blank Black 0 FT IN [2] - Specify louvers/optics in 6" increments, and blanks in 1" increments. - If 3 optic types are selected, the minimum total length per louver/optic must be 2'. - Minimum fixture length is 3' for Direct, and 4' for Direct/Indirect.	**TIO -** Translucent Indirect Optic **NA -** Not applicable	**SW -** Static white **BIOSST -** Static biologically-optimized lighting **BIOSDY -** Dynamic biologically-optimized lighting

CRI	DIRECT LUMEN PACKAGE	INDIRECT LUMEN PACKAGE Specify NA for Direct fixture	COLOR TEMP	TOTAL LUMINAIRE LENGTH	VOLTAGE
Choose			Choose	0FT 0IN	Choose
80 - 80CRI **90** [3] **-** 90CRI [3] Not available with BIOS.	**350 -** Eco low output 350 lm/ft **500 -** Low output 500lm/ft **750** [4] **-** Medium output 750lm/ft **1000** [4] **-** High output 1000lm/ft **1200** [4] **-** Ultra high output 1200lm/ft [4] Not available with BIOS.	**350 -** Low output 350lm/ft **500 -** Medium output 500lm/ft **750** [5] **-** High output 750lm/ft **1000** [5] **-** Ultra high output 1000lm/ft **NA** - Not applicable [5] Not available with BIOS.	**27** [6] **-** 2700K **30 -** 3000K **35 -** 3500K **40 -** 4000K [6] Not available with BIOS.	**#FT#IN** - Specify the total nominal length in the Direct Optics section **Standard nominal lengths:** Single units - Direct: 3' to 12' Single units - Direct/Indirect: 4' to 12' Continuous runs: lengths over 12'	**120 -** 120V **277 -** 277V **UNV -** 120V-277V **347** [7] **-** 347V [7] Not available with DALI or Lutron drivers.

DRIVER [8]	ELECTRICAL	ELECTRICAL SECTIONS (optional) [14, 15]	MOUNTING
Choose			DMB
D1 - 1% 0-10V **DA** [9] **-** DALI **LTEA2W -** Lutron 1% - 2 wire FP 120V **LDE1** [9] **-** Lutron Hi-lume 1% Eco **ELD1** - eldoLED 1% ECOdrive 0-10V **ELD0** - eldoLED 0.1% SOLOdrive 0-10V [8] PoE (Power-over-Ethernet) compatible. Consult factory for details. [9] On-site commissioning is required.	**1C** - 1 circuit **2C** [10] - 2 circuits **#MC** [11] - Multi circuit **EC** - Emergency-powered fixture **NL** - Night light fixture **DL** - Daylight fixture **GTD** [12, 13] - Generator transfer device fixture [10] Available for Direct/Indirect only. Separate direct and indirect circuits. [11] Specify total number of circuits (#), including any required for electrical section options. Provide drawing or layout specifications. Minimum 4' section per circuit. [12] Minimum 4' fixture. [13] Not available with 347V.	**#EC##** [16] - Emergency-powered section **#NL##** [16] - Night light section **#DL##** [16] - Daylight section **#GTD##** [16, 17, 18] - Generator transfer device section **#EMB** [18, 19] - Emergency battery **NA** - None [14] Specify with multi circuit (#MC) electrical option only. [15] Provide drawing or layout specifications. Consult factory for other configurations. Default section length is 4'. [16] Specify quantity (#), and section length in inches (##). [17] Minimum 4' section. [18] Not available with 347V. [19] Specify quantity (#). All batteries will be on the same circuit. Each battery powers a 4' section. For Direct/Indirect, minimum 8' fixture.	**DMB -** Drywall mounting bracket

FINISH	END CAP	CONTROL [20]	OPTIONS
	Choose		
W - Matte white **AL -** Aluminum **B -** Matte black **CF# -** Custom finish, specify RAL#	**BE -** Beveled **FL -** Flat	STANDALONE CONTROLS [21, 22] Specify the quantity (#) of sensors per fixture. **#OMS** [23] **-** Onboard Occupancy **#OMSX** [24] **-** Onboard Occupancy with bi-level dimming **#ODS -** Onboard Daylight **#OCS -** Onboard Occupancy & Daylight CONNECTED CONTROLS [25] **LU-** Lutron **EN -** Enlighted **ENC -** Encelium **WL -** Cooper Wavelinx **AN** - Acuity nLight **CA** - Casambi **LG** - Legrand **NA -** None [20] Standalone and connected control options cannot be combined. [22] Available with D1 driver and 1 circuit options only. [21] Minimum 4' per zone. Provide control zone length. [23] Fixture turns off when no occupancy. [24] Fixture dims to specified light level % (X). [25] Consult factory for connected controls.	**FU120 -** Fuse 120V **FU277** - Fuse 277V **NA** - None

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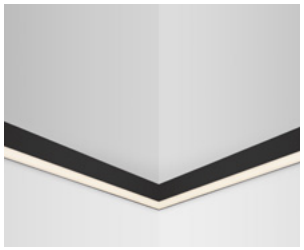
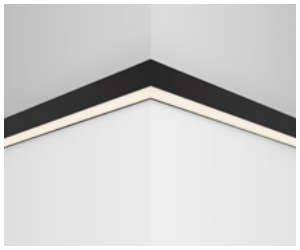
-DMB

UBIK PATTERN

CORNER TYPE	CORNER OPTIC	CORNER DEGREE
LEVI - Leveled inside corner **LEVO** - Leveled outside corner	**HLO -** High-Efficiency Lambertian Optic leveled corner min 2'x2' **BLA -** Aluminum blank leveled corner min 6"x6"	**90(#) -** 90 degrees, specify the number of corners (#)



LEVI - Leveled inside corner



LEVO - Leveled outside corner

COMBINATION / PATTERN LAYOUT

Use the grid below to sketch and label the layout of your Combination or Pattern fixture.

Make sure to follow the guidelines specified in the order code:
- Louvers/optics are available in 6 inch increments; blanks are available in 1 inch increments.
- If 3 optic types are selected, the minimum total length per louver/optic must be 2'.
- Minimum fixture length is 3' for Direct, and 4' for Direct/Indirect.
- Minimum 4 ft lengths apply when specifying certain electrical and control options. See product code for details.

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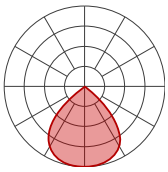
Photometrics

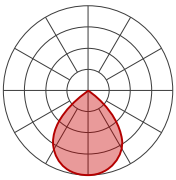
For direct/indirect models, combine information given from direct photometrics on page 5 with information given from indirect photometrics on page 6. Watts and lumens per watt may vary based on the type of driver selected.

DIRECT



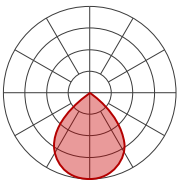
MWPL - Delivered Lumens at 35K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTAGE	LPW
350	1400	10.2	137
500	2000	15.2	132
750	3000	23.6	127
1000	4000	32.5	123
1200	4800	39.7	121



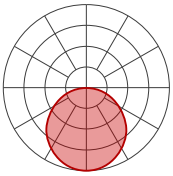
MSPL - Delivered Lumens at 35K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTAGE	LPW
350	1400	11.2	125
500	2000	16.7	120
750	3000	26.1	115
1000	4000	35.7	112
1200	4800	43.6	110



MBPL - Delivered Lumens at 35K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTAGE	LPW
350	1400	12.8	109
500	2000	19.0	105
750	3000	29.7	101
1000	4000	40.8	98
1200	4800	50.0	96



HLO - Delivered Lumens at 35K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTAGE	LPW
350	1400	9.7	145
500	2000	14.3	140
750	3000	22.2	135
1000	4000	30.5	131
1200	4800	37.5	128

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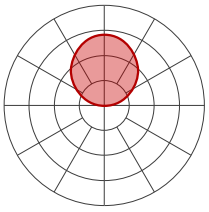
INDIRECT



TIO - Delivered Lumens at 35K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTAGE	LPW
350	1400	10.9	128
500	2000	16.1	124
750	3000	25.0	120
1000	4000	34.8	115

Multiplier - CCT/CRI - MWPL/MSPL/MBPL

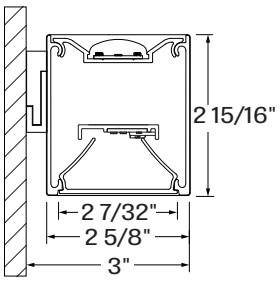
CCT (K)	Watts		LPW	
	CRI80	CRI90	CRI80	CRI90
2700	1.04	1.19	0.96	0.84
3000	1	1.15	1	0.87
3500	1	1.12	1	0.89
4000	0.99	1.10	1.01	0.91

Multiplier - CCT/CRI - HLO/TIO

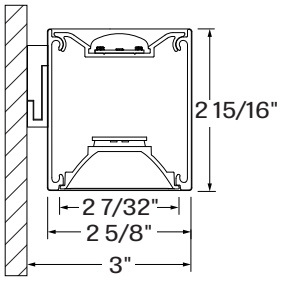
CCT (K)	Watts		LPW	
	CRI80	CRI90	CRI80	CRI90
2700	1.05	1.27	0.95	0.79
3000	1.02	1.23	0.98	0.81
3500	1	1.19	1	0.84
4000	1	1.19	1	0.84

CROSS SECTIONS

DIRECT / INDIRECT

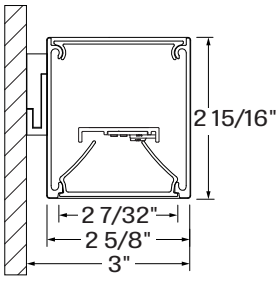


HLO
TIO

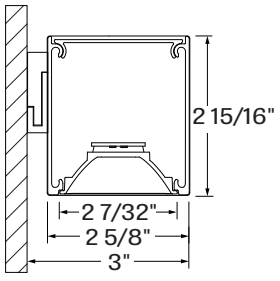


Parabolic Louver
TIO

DIRECT



HLO



Parabolic Louver

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Technical Specifications

DIRECT OPTICS

High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity. Luminaire brightness is controlled by the flux-to-shielding area ratio. For visual comfort, avoid high lumen output unless Ubik is installed in a high ceiling application.

Blank (BLA)

Blank sections or covers provide spacing for functions or an unlit transition or unlit corner for Ubik combination or pattern. Blank covers are perfectly sized and finished to match the Ubik housing color and shape and easily snap into the Ubik aperture.

Parabolic Louvers

Parabolic louvers provide excellent shielding and a pleasing crisp visual texture. The precisely molded louvers consist of 1" deep blades and is 2”x2” in size. The LED array is secured in the direct position, with the light transmitting through a beam-forming lens creating a conical distribution. Three matte (MPL) finishes are available in black, white and silver, offering a soft appearance, a wide beam spread of up 85-91 degrees, gentle brightness transition at cut-off, and exceptional UGR.

INDIRECT OPTICS

Translucent Indirect Optic (TIO)

A horizontal LED array that has a translucent lens to mask pixilation from the LED diodes. TIO has a 100° spread in the indirect that is ideal when the pendant is dropped farther from the ceiling.

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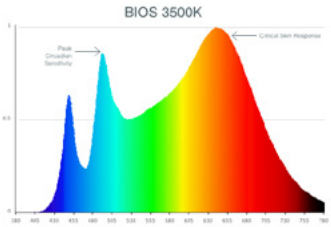
LIGHT SOURCE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. 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.

BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



LUMINAIRE LENGTH

Ubik is made up of standard 3 to 12 foot sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code.The minimum length is 3 feet for Direct fixtures, and 4 feet for Direct/Indirect. Lengths can be ordered in 1 foot increments for louvers and optics, and 1 inch increments for blanks.

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.

WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.
This fixture meets Features:
- Feature 54 or L03 when BIOS LED is selected
- Feature 55 or L04 meets WELL glare category (b-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.

WELL for Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact well@lumenwerx.com.

ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), eldoLED 1% ECOdrive 0-10V, eldoLED 0.1% SOLOdrive 0-10V, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

PoE
Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

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ELECTRICAL SECTION OPTIONS

Electrical section options are available for fixtures specified as multi circuit (#MC). With MC, specify the total number of circuits (#), including any circuits required for optional electrical sections. A drawing is required to specify the layout. Please consult factory for custom configurations.

Electrical sections

Options include emergency-powered (#EC##), night light (#NL##), daylight (#DL##), and generator transfer device (#GTD##) sections. Specify the quantity (#), as well as the section length in inches (##).

Example 1: A 32' Direct fixture with two 8' emergency-powered sections on a second circuit.
Code: 2MC-2EC96

Example 2: A 16' Direct/Indirect fixture with separate circuits for direct and indirect, and with one 4' night light section on the direct side on a third circuit.
Code: 3MC-1NL48

Example 3: A 24' Direct fixture with one 4' generator transfer device section.
Code: 1MC-1GTD48

Battery

Each emergency battery (#EMB) powers a 4' section. All batteries will be on the same circuit. Specify the number of batteries (#) required.
Factory installed long life, high temperature, maintenance-free Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. Minimum of 90 minutes operation, up to 1000 lumens per 4' (25°C) emergency lighting output and recharge time of 24 hours.

MOUNTING OPTIONS

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

CONTROLS

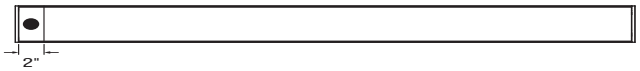
Lumenwerx offers several options for integrating occupancy and daylight harvesting controls in our luminaires.

STANDALONE CONTROLS

An integrated standalone sensor controls the luminaire in which it is installed. Depending on the length, more than one sensor may be necessary and may control the entire luminaire, or just a section of it. These controls operate independently. Unless otherwise agreed, location and functionality of the sensor within the luminaire are selected by Lumenwerx.

Three types are available:
OMS: An integral Passive InfraRed (PIR) sensor turns luminaires on and off automatically with field-adjustable time out period. No wall control is used. Coverage pattern for large motion has a 12' diameter with the sensor mounted 8' above the floor; for small motion, the pattern has an 8' diameter. Typically, one sensor is required for every 10' of a continuous luminaire run.
ODS: An integral, daylight harvesting sensor with closed-loop operation dims the luminaire in which it is installed in order to compensate for available daylight. The sensor measures the combination of daylight and luminaire light reflected from horizontal surfaces below the luminaire. Initial onsite calibration is required via the use of provided remote control.

OCS: Both an occupancy and a daylight sensor are installed in the luminaire.



Location of an onboard control

CONNECTED CONTROLS

With connected controls, sensors or nodes installed in the luminaire form part of a larger control system infrastructure from manufacturers such as: Lutron, Enlighted, Encelium, Cooper Wavelinx, Acuity nLight, Casambi, Legrand,and others. These connected controls allow for a scalable system providing features like occupancy and daylight control, manual control, scheduling and configuration of various zones and scenes. Energy reporting and system monitoring are also possible. Specific capabilities depend on the control system being used.

Lumenwerx installs the components (sensors, nodes, power packs, etc) which may be supplied to us by a third party, or procured directly by Lumenwerx, depending on the control system manufacturer.

Lumenwerx is solely responsible for the installation of specified components; the controls manufacturer is responsible for performance of the control system.

To indicate a Lumenwerx luminaire with connected controls, identify the specific onsite control system to be integrated into the luminaires using the ordering code. Due to the diversity of components, you must contact factory to assure complete compatibility with intended control system and to fully specify the luminaire.

Complete control specifications, sensor/node/power pack layout, and narrative for the control system are required for Lumenwerx to create shop drawings and submittals.

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COMBINATION / PATTERN WALL
STATIC WHITE, BIOS ST/DY

LUMENWERX

Project: _____

Type: _____

END CAPS

FL - Flat

BE - Beveled

CONSTRUCTION

Housing - Extruded aluminum (0.070" nominal) up to 90% recycled content
Joiner - Die cast aluminum
Joiner bracket - Galvanised steel
HLO heatsink - Aluminum sheet 10 gauge thick
Louvers - Injection molded optical grade polycarbonate up to 95% reflective
HLO lens - Coextruded PMMA
TIO lens - Frosted acrylic
End caps - Die cast aluminum

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - powder coating.

WEIGHT

Direct
Ubik 4ft - 7 lbs - 3.17 kg
Ubik 6ft - 10.5 lbs - 4.76 kg
Ubik 8ft - 14.08 lbs - 6.39 kg
Ubik 12ft - 17.58 lbs - 7.97 kg

Direct / Indirect
Ubik 4ft - 7.73 lbs - 3.50 kg
Ubik 6ft - 11.59 bs - 5.25 kg
Ubik 8ft - 15.46 lbs - 7.01 kg
Ubik 12ft - 19.51 lbs - 8.84 kg

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.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

UBIK-COMBO-PATTERN-WALL-SPEC-REV1 April 14, 2022