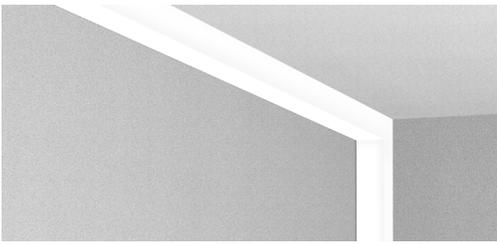


# CUBITO PATTERNS

SURFACE



**LUMENWERX**  
WWW.LUMENWERX.COM



## DESCRIPTION

**Cubito** Surface illuminates its square profile through two adjacent sides, forming a luminous right angle 2 1/2" on each side. Leveled and Inner Corners enable Cubito Surface to form fully lighted patterns. Cubito Surface offers light output up to 900 lumens per foot and efficacy of 137

LPW. **Mikrodrive™** electronics and LED array are serviced by removing the High-efficiency Lambertian Optic.

Cubito Surface installs horizontally at the wall/ceiling line, vertically at the corner of two walls. It can be a discrete luminaire, a continuous line of light, or turn corners in one plane (Leveled) or two (Inner).

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

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

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



up to 137 lm/w performance

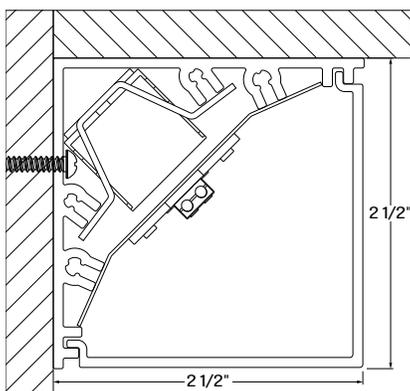
## ORDER GUIDE

CUBSPAT	HLO	LED				
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	COLOR TEMP.	PATTERN LENGTH
CUBSPAT - Cubito Surface pattern	HLO - High-efficiency Lambertian Optic	LED - High performance LED	80 - 80CRI 90 - 90CRI	450 - min. low output 450lm/ft 700 - medium output 700lm/ft 900 - max. high output 900lm/ft #### - other required lm/ft	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	#FT - nominal length in feet Continuous Run - for luminaires over 12' (Visible break in line of light at joining.)

			MIKDR		DRM	
CORNER TYPE	CORNER DEGREE	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH
LEV - Leveled corner INN - Inner corner	90(#) - 90 degrees, specify number of corners (#)	120 - 120V 277 - 277V UNV - 120V-277V	MIKDR - 0-10V mikro driver	1 - 1 circuit EM - Emergency light circuit NL - Night light circuit	DRM - Drywall mounting	W - Matte white AL - Aluminum CF# - Custom finish specify RAL#

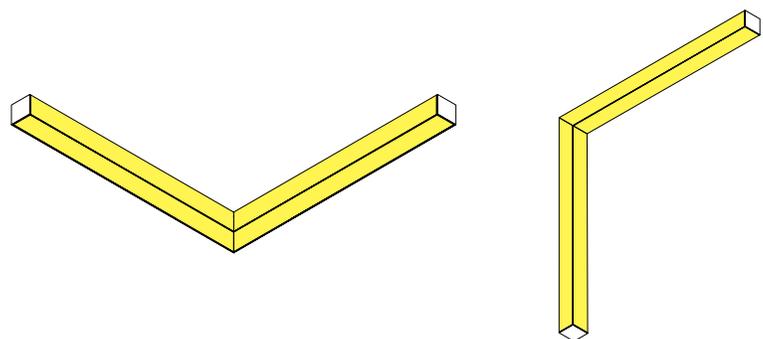
See page 2 for ordering code detailed information

## CROSS SECTION



CUBSPAT - bottom lit

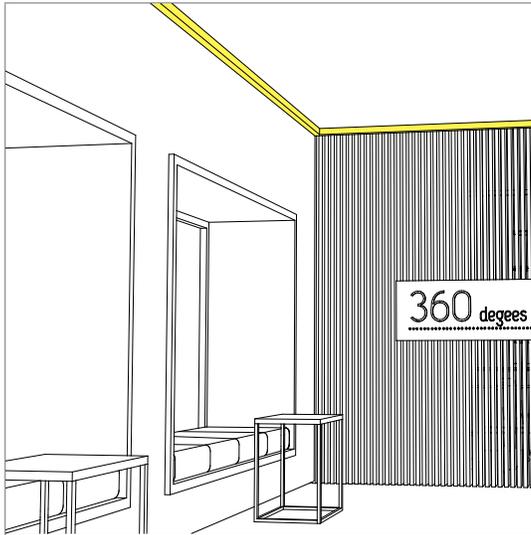
## 3D VIEW



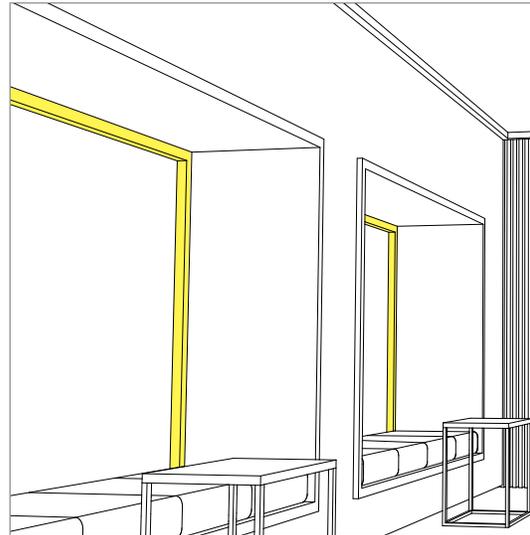
LEV - leveled corner

INN - inner corner

### LEVELED CORNER



### INNER CORNER



#### 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 **CORNER DEGREE**, please enter the angle in degrees of each corner required to complete your pattern, followed by the number of corners.

PATTERN LENGTH	CORNER TYPE	CORNER DEGREE
#FT - nominal length in feet Continuous Run - for luminaires over 12' (Visible break in line of light at joining.)	LEV - leveled corner INN - inner corner	90(#) - 90 degrees, specify number of corners (#)

### OPTICS

**HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO)** - formed, matte white reflectors, combined with High-efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration. Peak intensity occurs at 48° with 75% of lumen output from 0-90.

### 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.

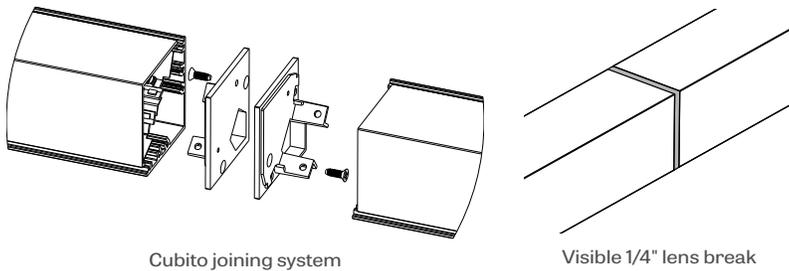
### PERFORMANCE PER 4' AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	13	1800	137
medium output	4000K	21	2800	134
high output	4000K	27.5	3600	131

### PATTERN LENGTH

Cubito is made up of standard 4, 6, 8 and 12 foot sections that may be joined together to create longer continuous run lengths. There is a 1/4" visible lens break at joining. 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.



### 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). 0-10V dimming protocol with "Dim-To-Off" functionality. 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 mounted directly to T-Bar, drywall and hard surface ceilings, hardware supplied by others.

### 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 (0.085" nominal) up to 90% Recycled content  
**Interior brackets** - Die formed cold rolled sheet steel 18 gauge thick  
**Joining system** - Die cast aluminum (0.85" nominal)  
**Reflectors** - Flat rolled aluminum sheet 0.024" thick precisely die formed, 95% reflective matte white painted  
**End caps** - Die cast aluminum (0.85" nominal)

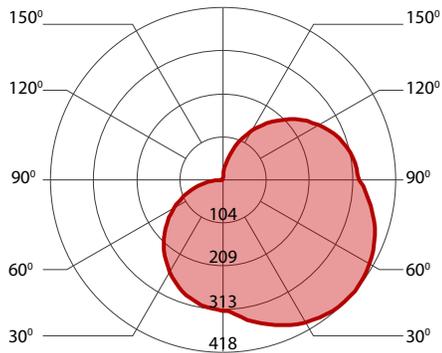
### CERTIFICATIONS

**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.

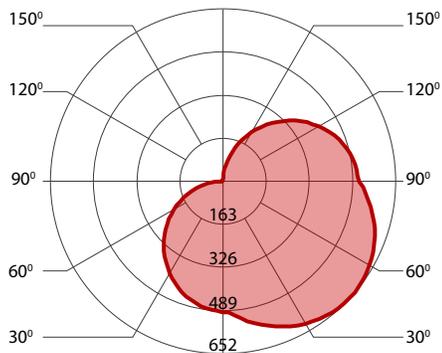
### 450 LUMEN AT 80CRI - LOW OUTPUT



#### PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	2700K	14	1800	128
low output	3000K	14	1800	130
low output	3500K	13.5	1800	132
low output	4000K	13	1800	137

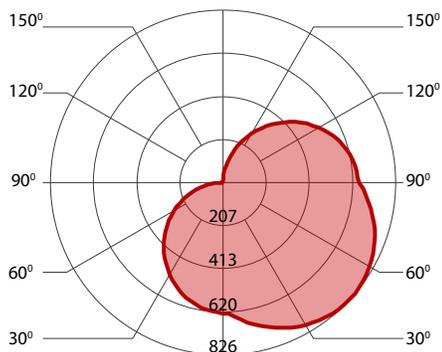
### 700 LUMEN AT 80CRI - MEDIUM OUTPUT



#### PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	22.5	2800	125
medium output	3000K	22	2800	128
medium output	3500K	21.5	2800	130
medium output	4000K	21	2800	134

### 900 LUMEN AT 80CRI - HIGH OUTPUT



#### PERFORMANCE PER 4'

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	2700K	29	3600	124
high output	3000K	28.5	3600	126
high output	3500K	28	3600	128
high output	4000K	27.5	3600	131