

PROJECT NAME		DATE	
CAT. NUMBER			
NOTES			

SPEC SHEET

# 360° Ultra Performance Tube

## LED TUBE



### KEY FEATURES

- 3,150 to 8,580 lumens
- Excellent solution for direct/indirect fixtures
- Polycarbonate lens
- Replace T8 or T12 lamps (T5 length upon request<sup>9</sup>)
- BAA Compliant upon request
- Dimmable 0-10V



### 360° Light Distribution

Designed for direct-indirect fixtures that rely on 360° of illumination. 70% of light beams down and 30% of light beams down.



### Superior Heat Dissipation

Unique aluminum construction offers longer life and better heat dissipation than the plastic and glass competition.



### Controls and Sensors

0-10V dimming and a broad range of occupancy and daylight sensors available as an option, including wireless controls.



# TECHNICAL SPECS

SIZE	LUMEN OUTPUT <sup>3</sup>	EFFICACY	WATTS	PART NUMBER
4	3,770	145	26	LL-T8-4-2-360-ED-F-41K-26W
4	4,200	140	30	LL-T8-4-2-360-ED-F-41K-30W
4	5,040	140	36	LL-T8-4-2-360-ED-F-41K-36W
4	6,204	141	44	LL-T8-4-2-360-ED-F-41K-44W

Typical lumen output (±10%) at 120V (LV) under 25°C ambient temperature at 5000K.

## Lumen Multipliers

Allows to calculate the actual lumen output for your application. Apply each multiplier to the lumens of the shaded table.

COLOR TEMP	
CCT	Multiplier
5000	1.000
4100	1.000
3500	0.980

**Example:** How to calculate the actual lumen output of the 4,230 model at 3500K.

- 1) Find the lumens from the lumen output column.
- 2) Apply all the corresponding multipliers.

$$\begin{array}{ccccccc}
 4,230 & \times & 0.980 & = & 4,145 \\
 \text{Nominal lumens} & & \text{CCT} & & \text{Actual lumens}
 \end{array}$$

# ORDERING

MODEL	SIZE	# OF TUBES	BEAM	DRIVER TYPE	LENS	CCT	WATTAGE	OPTIONS
LL-T8-  T5 option upon request <sup>3</sup> LL-T5	4	1 2	360	ED	F Frosted Lens	50K 5000K  41K 4100K  35K 3500K  Other CCT available upon request	26W  30W  36W  44W	BAA BAA Compliant tube, assembled in America, adder per tube

\*Includes 25 tubes per case.<sup>8</sup>

# ORDERING EXAMPLES

**Standard:** LL-T8-4-2-360-ED-F-35K-26W

# FEATURES & SPECIFICATIONS

## CONSTRUCTION

- **Extruded Aluminum Heat Sinks:** The Tube is made with a rectangular extrusion allowing for an air flow cavity between the upper and lower LED boards. Interior PCB board is made of aluminum core and thermally bonded to a ribbed aluminum heat sink while most tubes use FRP/plastic.
- **LEDs:** Only top tier performance diodes for ultra high lumens and wattage.
- **Retrofit Size:** Suitable to replace T8 or T12 lamps. Upon request, we can manufacture T5<sup>9</sup> socket configuration.

## ELECTRICAL

- **Power Input:** 120-277V.
- **Power Factor:** <0.92.
- **Total Harmonic Distortion:** <11%.
- **Battery Backup (LL-BBU):** Optional.

## OPERATION

- **Replacement Lamps:** Suitable to replace T8 or T12 lamps. Upon request, we can manufacture T5<sup>9</sup> socket configuration.
- **Environment:** Dry/Damp, for interior applications. Suitable for most food processing applications.
- **Ambient Range Operation:** -35°C up to 49°C (-30°F up to 120°F).

## OPTICS

- **CCT:** 3500K, 4100K and 5000K standard, other CCT available (extended lead time).
- **CRI:** >80, other CRI available (extended lead time).
- **Lenses:** High-impact polycarbonate plastic. 360° light distribution.

## CONTROLS<sup>4</sup>

- **Dimming:** 0-10V standard. Dim to OFF.
- **Sensors:** Compatible with McWong sensors and Enocean switches.
- **Networked Control Options<sup>7</sup>:** Compatible with UltraLink SIG Bluetooth<sup>®</sup> with Mesh Networked Controls<sup>5,6</sup>.

## WARRANTY

- **Standard:** 10-year product warranty, including the LED driver.

## LISTINGS & CERTIFICATIONS

- UL 1598.
- RoHS compliant.



# ACCESSORIES

## ADDITIONAL TUBES

Replace # with desired lens and CCT

LL-T8-4-1-360-ED-F-##      4' replacement tube with no driver

## OPTIONS

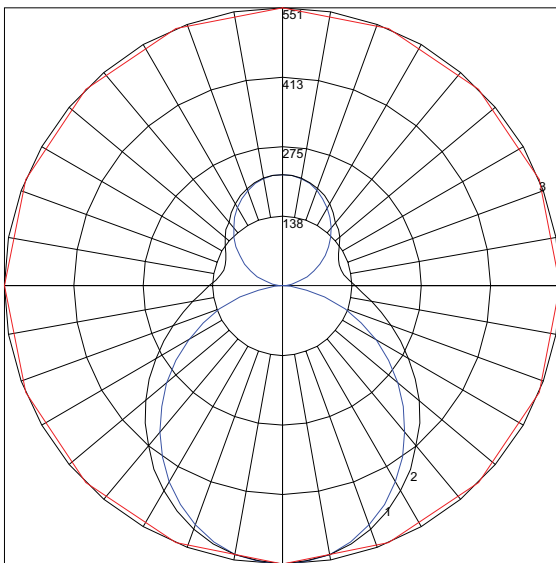
LL-BBU-08W-001      8 watt battery backup

LL-LHT8      Shunted tombstones

# LIGHT DISTRIBUTION

## 4' MODEL - 2 BAR

**Polar Graph**  
LL-T8-4-2-360-ED-F-30K-36W



Maximum Candela: 551

Located at horizontal angle: 0, Vertical angle : 0

#1: Vertical plane through horizontal angles (0-180)(through max Cd.)

#2: Vertical plane through horizontal angles (90-270)

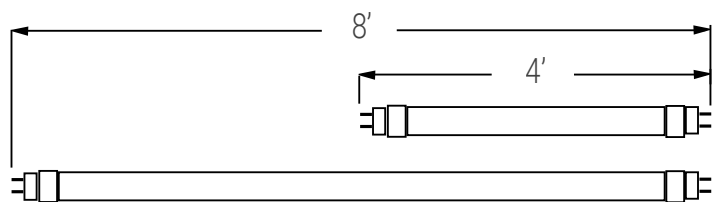
#3: Horizontal cone through vertical angle (0)(through max Cd.)

# DIMENSIONS & DRAWINGS

## DIMENSIONS

Size	Length (in)	Weight (lb)
4	48	<1
8	96	<1
4 (T5)*	45.8	<1

\*Extended lead time.



# FOOTNOTES

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1. Check QPL for up-to-date listings.
2. Not DLC listed.
3. Estimated lumen output based on calculations.
4. Synapse, Daintree and Enlighted are available with extended lead time. Electrical changes and additional components required to make fixture compatible.
5. Fulham and BubblyNet relays compatible with UltraLink allowing for switching of line voltage at 120-277V.
6. Requires Enoclean switch, McWong sensor or a gateway for complete functionality.
7. Contact your Regional Sales Director for more information.
8. If ordered as BAA, will come with 30 tubes per case.
9. Minimum order requirement of 25 tubes (one case).

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Updated: 2023.08.16