

Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____



ECC N | Type C T-LED Narrow Strip

Features:

- Type C T8 LED tubes with external driver
- Frosted glass eliminates pixelation
- 0-10V dimming drivers standard, down to 10%
- KOs for chain hanger, conduit, pull switch, convenience outlet
- Can be installed as individual units or in continuous rows. Ends function as couplers.
- All parts snap together for ease of installation and maintenance.

Applications:

- Suitable for most commercial, industrial and institutional applications
- Warehouse
 - Manufacturing Facility
 - Stock Room
 - Coves
 - Valences

Ambient Operating Temp.:

- -20°C to 45°C

Predicted Lifetime:

- Driver Rated Life: 70,000 hrs
- L70: ≥ 70,000 hrs

Construction:

- Precision brake formed from cold rolled steel with a highly durable matte white finish. Optional matte black and metallic silver options constructed of brake formed aluminum

Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations



Warranty:

- 5 year limited system warranty - see www.LumenFocus.com for complete warranty terms and conditions.
- Lamps: 7 year standard warranty, 10 year extended limited warranty based on depreciated value after 7 yrs, max 6,130 hrs/yr - see Keystone Tech's website for complete warranty terms and conditions.
- Drivers: 7 year standard warranty, 10 year extended limited warranty based on depreciated value after 7 yrs, max 4,380 hrs/yr - see Keystone Tech's website for complete warranty terms and conditions.



Ordering Guide:


example: ECC N 4 1 12T84LED UV 1ED 840 QC ZOFD1

Series	Length	# Lamps ⁽¹⁾	Lamp Type	Voltage	Driver	CRI/CCT	Hanging	Controls	Options			
ECC N		±		UV								
ECC N Type C T-LED Narrow Strip	2 2'	1 1 Lamp	8T82LED 2; 8W T8 LED Type C Lamp ⁽²⁾	UV 120-277	1ED 1 Electronic Driver	830 80+ CRI / 3000K	Blank None	Blank No Controls	Blank No Options			
	3 3'		12T83LED 3; 12W T8 LED Type C Lamp							VC V-Chain Hangers	ZOS Occupancy Sensor (On/Off) ⁽⁴⁾	C6 6' Single Circuit Cord
	3T 3' Tandem, 6' Total		10T84LED 4; 10W T8 LED Type C Lamp							QC 10' Quick Hang Cable Kit	ZOFD1 Leviton Bluetooth-enabled Programmable Dimming/ Occupancy/Daylight Harvesting Sensor with Grouping (120-277V) ⁽⁴⁾	C65W 6' Single Circuit Cord with Low Voltage Connections
	4 4'									12T84LED 4; 12W T8 LED Type C Lamp	QC20 20' Quick Hang Cable Kit	ZOFDU Leviton Bluetooth-enabled Programmable Dimming/ Occupancy/Daylight Harvesting Sensor with Grouping, Scheduling (120-480V) ⁽⁴⁾
4T 4' Tandem, 8' Total	13.5T84LED 4; 13.5W T8 LED Type C Lamp ⁽²⁾	SH Slide Hanger	Z211BL_ Wattstopper FSP Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽⁵⁾	C105W 10' Single Circuit Cord with Low Voltage Connections								
								Z311BL_ Wattstopper FSP Bluetooth- enabled Programmable Photo/ Motion Multi-Voltage Sensor (high/low/off) ⁽⁵⁾	D6 6' Dual Circuit Cord			
									D10 10' Dual Circuit Cord			
									P(NEMA) Plug (Specify NEMA configuration)			
									WG Wire Guard			
									SC Safety Cable			
									F Fuse			
									EM6 6.5W Emergency Pack ⁽⁶⁾			
									EM10 10W Emergency Pack ⁽⁶⁾			
									EM14 14W Emergency Pack ⁽⁶⁾			
									QWH(L) Quick Wire Harness ⁽⁷⁾			
									SDT(480V) 480V to 277V Step Down Transformer			
									LVL 0-10V Dimming Leads for Easy Field Access			
									BK Matte Black Finish			
									SL Metallic Silver Finish			

Notes

- ⁽¹⁾ # of lamps is for the profile of the fixture.
(ex. ECC N 4T 1 10T84LED has 1 lamp per 4' section, 2 lamps total)
- ⁽²⁾ Not available in 3000K.
- ⁽³⁾ Not available for single lamp configurations.
- ⁽⁴⁾ See page 4 for more details.
- ⁽⁵⁾ " _ " = lens type. See page 4 for more details.
- ⁽⁶⁾ 0°C-55°C ambient. EM wattage must not be greater than total luminaire lamp wattage.
(ex. If luminaire contains a single 8W lamp, EM pack must be ≤ 8W. For two 8W lamps,
EM pack must be ≤ 16W.)
- ⁽⁷⁾ " _ " for 2-circuit wiring, specify circuit A or B here.

Controls Accessories (order separately)

 **For WattStopper Z221L_Sensor**
FSIR-100 Wireless IR Programming Tool



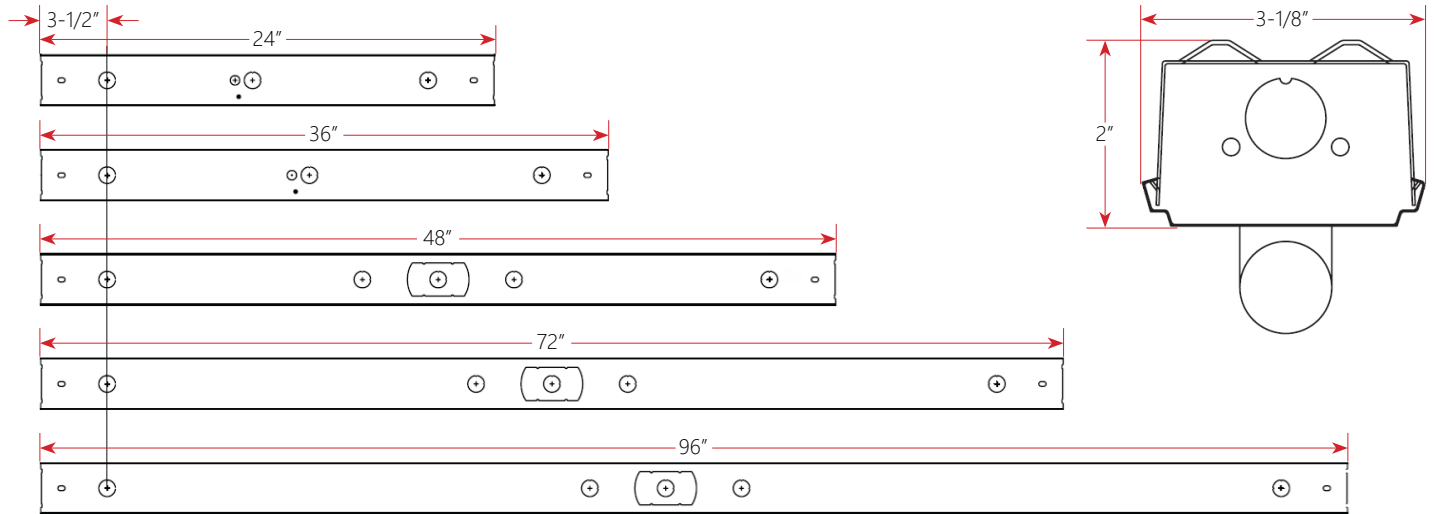
Lamp Chart:

Lamp Type	Nominal Length	System Watts (per lamp)	Lumens per Lamp (3000K)	Lumens per Lamp (3500K)	Lumens per Lamp (4000K)	Lumens per Lamp (5000K)	Rated Life (L70)	Warranty
8T82LED	24"	9	N/A	1,125	1,150	1,200	70,000 hrs	10 Years*
12T83LED	36"	13	1,680	1,680	1,730	1,780	70,000 hrs	10 Years*
10T84LED	48"	11.5	1,600	1,625	1,650	1,700	70,000 hrs	10 Years*
12T84LED	48"	13	1,700	1,700	1,750	1,800	70,000 hrs	10 Years*
13.5T84LED	48"	15	N/A	2,100	2,200	2,200	70,000 hrs	10 Years*

* 7 yr standard warranty. 10 yr extended limited warranty up to 6,130 operating hours per year, prorated after 7 yrs. See Keystone Tech.'s website for complete warranty terms and conditions.

Schematic:

Top View



Controls Summary:

Control Code	Type	Capabilities	Communication
ZOS	Motion (PIR)	On/Off	Wired
ZOFD1	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
ZOFDU	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
Z211BLx	Motion (PIR), Photosensor	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via IR remote (sold separately)
Z311BLx	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)

On/Off Occupancy Sensor (ZOS)

The Leviton OSFHU-ITW (or equivalent) is an end mounted PIR On/Off motion sensor. It comes with two interchangeable lenses: Low Bay (8-25' heights), High Bay (20-40' heights), as well as an aisle mask.

- IP44 rated



Dimming Sensors (Z211B/Z311B)

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- Comes pre-installed on the fixture
- Rated for cold locations
- Parameters for Bluetooth-enabled Z311 adjustable via phone app - iOS or Android
- Parameters for Z211 adjustable via wireless configuration tool (FSIR-100 - sold separately)
- Available with black lens for black finishes (pictured right)
- Two lenses available, tailored for the ideal detection area and mounting height:
 - L2: 360° lens, maximum coverage 48', diameter from 8' height
 - L3: 360° lens, maximum coverage 40', diameter from 20' height
 - L7: 360° lens, maximum coverage 100', diameter from 40' height



Phone app interface for Z311B sensor

Smart Sensors (ZOFDx)

- Leviton Smart IP66 passive infrared (PIR) sensors
- Features mesh grouping (16 devices per group), occupancy sensing, daylight harvesting, scheduling (for ZOSFUDU only), single-level switching
- Comes pre-installed on the end of the luminaire
- Rated for cold locations
- Configurable through the Leviton Smart Sensor App using a smartphone or other Bluetooth-enabled iOS or Android device

The ZOFD option includes four sensor lenses that can easily be installed or swapped out in the field. From left: the high bay lens (20'-40' mounting), the high bay lens with aisleway mask, the low bay lens (8'-20' mounting), and the low bay lens with aisleway mask.

