LUMENFOCUS

Project: _____

Location: _____

Cat. #: _____

Type: _____

Quantity: _____

T-LED TYPE-C

ECC | Type C T-LED 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.

10 YEAR EXTENDED WARRANTY

Ordering Guide:

example: ECC 4 2 12T84LED UV 1ED 840 QC ZOFD1

Series	Length	# Lamps [1]	Lamp Type	Voltage	Driver	CRI/CCT	Hanging	Controls	Options
ECC				UV					
ECC Type C T-LED 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'	**2** 2 Lamps	**12T83LED** 3', 12W T8 LED Type C Lamp		**2ED** 2 Electronic Drivers [3]	**835** 80+ CRI / 3500K	**VC** V-Chain Hangers	**ZOS** Occupancy Sensor (On/Off) [4]	**C6** 6' Single Circuit Cord
	3T 3' Tandem, 6' Total					**840** 80+ CRI / 4000K	**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'		**10T84LED** 4', 10W T8 LED Type C Lamp			**850** 80+ CRI / 5000K	**QC20** 20' Quick Hang Cable Kit	**ZOFDU** Leviton Bluetooth-enabled Programmable Dimming/ Occupancy/Daylight Harvesting Sensor with Grouping, Scheduling (120-480V) [4]	**C10** 10' Single Circuit Cord
	4T 4' Tandem, 8' Total		**12T84LED** 4', 12W T8 LED Type C Lamp				**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
			13.5T84LED 4', 13.5W T8 LED Type C Lamp [2]					**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(_) 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 4T 2 10T84LED has 2 lamps per 4' section, 4 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)*

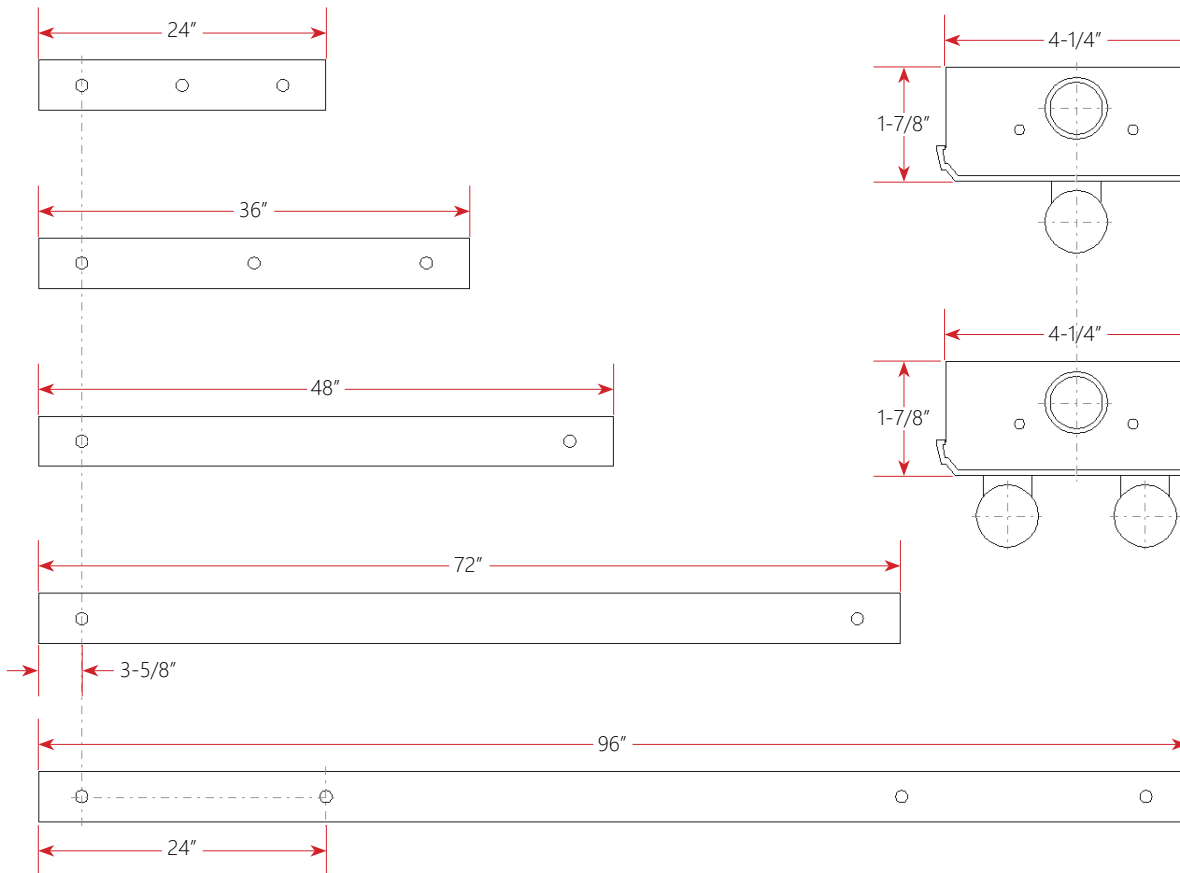**For WattStopper Z221L_ Sensor**
FSIR-100   Wireless IR Programming Tool

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

End View

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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: 360º lens, maximum coverage 48', diameter from 8' height
  - L3: 360º lens, maximum coverage 40', diameter from 20' height
  - L7: 360º lens, maximum coverage 100', diameter from 40' height

FSIR-100

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 ZOSFDU 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.

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