

Project Name:	Part Number:	Type:
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FZ

LOW PROFILE STRIP



407-478-3759
www.ilp-inc.com

FEATURES

- Durable steel construction
- Frosted acrylic lens available
- 4ft & 8ft options available
- Multiple dimming & sensor options to fully control occupied & unoccupied light levels
- 3000K, 3500K, 4000K, and 5000K CCT
- 120-277V Universal Voltage
- 0-10V Dimmable Driver (100% - 10%)
- Single (4ft) or dual pendant (4ft & 8ft), surface mount and cable hanging options
- L90>54,000 hrs
- 5 Year Warranty (std); 10 Year Warranty Optional
- ETL Listed for Dry and Damp Location
- DesignLights Consortium® Luminaire



EasySense Available on 4ft & 8ft



SUITABLE APPLICATIONS

- Schools
- Warehouses or Distribution Centers
- Grocery Stores
- Manufacturing Plants
- Retail Applications
- Stairwells (w/ USBD Sensor) (4ft only)

ORDERING GUIDE:

SERIES	WATTS	DRIVER	CCT	LENS OPTIONS	WARRANTY
FZ4 Low Profile Strip 4ft	20W	U 120-277V	50	BLANK No Lens	BLANK 5 Year
	32W		40	FRAL Frosted Acrylic Lens	10YR ⁹ 10 Year
	40W		35		
	55W		30		
FZ8 Low Profile Strip 8ft	40W				
	64W				
	80W				
	110W				

OPTIONS	
Factory Installed	Ship With Accessories
SR Sensor Ready Driver	ES/WWS/DR EasySense Dual Rocker Wireless Wall Switch
DR DALI Ready Driver	ES/PCD ⁶ Pre-installed app on controlled device for commissioning
BLD Bi-Level Dimming Module (2 hot leads)	WC ¹ 11 GA Wire Cage
RACEWAY/3WIRE ³ 3 Wire Raceway Wiring Harness for continuous wiring	VC V-Clips
RACEWAY/5WIRE ³ 5 Wire Raceway Wiring Harness for continuous wiring	HUB 3/4 3/4" Conduit HUB (1 per 4ft section)
EM7 7W LED Factory Installed Battery Backup	FMB ² Fixture Mounting Box (Use w/ HUB for single point mounting)
EM7/HE 7W LED Factory Installed Battery Backup - CEC Title 20 Compliant	HB-XX-18Y-PAD Y-Toggle Cable System (xx = in)
EM10 10W LED Factory Installed Battery Backup	ALBR ³ Alignment Bracket
EM10/HE 10W LED Factory Installed Battery Backup - CEC Title 20 Compliant	QMBR Quick Mount Bracket for Surface Mounting (Set of 2)
EM10/HE-SD 10W Factory Installed Self Diagnostic Battery Backup	AB45DEG 45 Degree Angled Mounting Bracket Set
EM12 12W LED Factory Installed Battery Backup	
SD480 ¹ 480V Step Down Transformer	

CONTROL OPTIONS	
Basic	Advanced
USBD User Bi-Level Dim Sensor w/ Occ. Sensor	ES ⁷ EasySense Sensor
BDxx Preset Bi-Level Dim Sensor (xx=%eg.20,30)	VDO ⁸ Lutron Vive DFCSJ-OEM-OCC (Daylight & Occupancy)
BDxxPC Preset Bi-level Dim Sensor w/ Photocell	VRF ⁸ Lutron Vive DFCSJ-OEM-RF (RF Only)
DHPC Daylight Harvesting (End Mounted)	AWNRR Lutron Athena Wireless Node RF only
FIOS On/Off Occupancy Sensor Installed	

¹ Does not qualify for DLC

⁴ Must be used with FMB

⁷ Must be used with ES/PCD for commissioning

² 4ft only

⁵ Must be used with FMB

⁸ Must be used with SR Sensor Ready Driver

³ Used only when mounting fixtures in continuous rows

⁶ One needed per project

⁹ Contact Factory for more details

*Please refer to the DLC Qualified Products List at www.Designlights.org/QPL to confirm specific product qualifications.

LOW PROFILE STRIP

LED SYSTEMS INFO ¹	3000K		3500K		4000K		5000K		Ambient Temp Range	Watts ²	Replaces
	Part Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens			
FZ4-20W-U-XX	3,441 lm	155 lm/w	3,538 lm	161 lm/w	3,635 lm	163 lm/w	3,670 lm	165 lm/w	-4°F - 120°F	22W	1T8
FZ4-20W-U-XX-FRAL	2,976 lm	134 lm/w	3,054 lm	139 lm/w	3,138 lm	141 lm/w	3,168 lm	142 lm/w	-4°F - 120°F	22W	2T8
FZ4-32W-U-XX	5,185 lm	160 lm/w	5,213 lm	158 lm/w	5,241 lm	162 lm/w	5,297 lm	163 lm/w	-4°F - 103°F	33W	1T5HO
FZ4-32W-U-XX-FRAL	4,338 lm	134 lm/w	4,362 lm	132 lm/w	4,386 lm	135 lm/w	4,521 lm	137 lm/w	-40°F - 103°F	33W	3T8
FZ4-40W-U-XX	6,515 lm	160 lm/w	6,667 lm	163 lm/w	6,819 lm	168 lm/w	7,124 lm	175 lm/w	-40°F - 101°F	41W	2T5HO
FZ4-40W-U-XX-FRAL	5,643 lm	139 lm/w	5,727 lm	143 lm/w	5,858 lm	146 lm/w	6,120 lm	152 lm/w	-40°F - 101°F	40W	2T8
FZ4-55W-U-XX	8,255 lm	153 lm/w	8,441 lm	156 lm/w	8,626 lm	159 lm/w	8,708 lm	161 lm/w	-40°F - 100°F	54W	2T5HO
FZ4-55W-U-XX-FRAL	7,101 lm	131 lm/w	7,239 lm	134 lm/w	7,399 lm	137 lm/w	7,516 lm	152 lm/w	-40°F - 100°F	54W	4T8
FZ8-40W-U-XX	6,790 lm	155 lm/w	6,923 lm	158 lm/w	7,057 lm	161 lm/w	7,046 lm	161 lm/w	-4°F - 100°F	44W	4T8
FZ8-40W-U-XX-FRAL	5,970 lm	135 lm/w	6,007 lm	137 lm/w	6,125 lm	140 lm/w	6,113 lm	140 lm/w	-4°F - 100°F	44W	4T5HO
FZ8-64W-U-XX	10,011 lm	156 lm/w	10,266 lm	160 lm/w	10,521 lm	164 lm/w	10,505 lm	164 lm/w	-4°F - 100°F	64W	4T5HO
FZ8-64W-U-XX-FRAL	8,423 lm	132 lm/w	8,641 lm	135 lm/w	9,016 lm	138 lm/w	9,004 lm	138 lm/w	-4°F - 100°F	65W	4T5HO
FZ8-80W-U-XX	13,168 lm	162 lm/w	13,476 lm	165 lm/w	13,560 lm	166 lm/w	14,399 lm	177 lm/w	-4°F - 103°F	82W	4T5HO
FZ8-80W-U-XX-FRAL	11,410 lm	140 lm/w	11,677 lm	143 lm/w	11,750 lm	144 lm/w	12,477 lm	153 lm/w	-4°F - 103°F	82W	4T5HO
FZ8-110W-U-XX	16,381 lm	152 lm/w	16,754 lm	155 lm/w	16,980 lm	158 lm/w	17,103 lm	159 lm/w	-4°F - 107°F	108W	4T5HO
FZ8-110W-U-XX-FRAL	14,220 lm	132 lm/w	14,499 lm	135 lm/w	14,690 lm	136 lm/w	15,070 lm	137 lm/w	-4°F - 107°F	108W	4T5HO

¹Values are nominal, see IES file for more detail

²Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

*Please refer to the DLC Qualified Products List at www.Designlights.org/QPL to confirm specific product qualifications.

MOUNTING OPTIONS

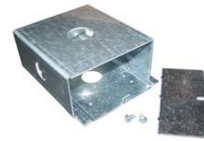
- **V-Clips** - For dual point chain or cable hanging
- **HB-XX-18Y-PAD** - Y-Paddle Cables System (XX = in)
- **FMB** - Fixture Mounting Box (Use with HUB for single point mounting)
- **HUB ¾ CONDUIT** - ¾ Conduit HUB (1 per 4ft section)
- **ALBR** - Alignment Bracket (Used to align fixtures mounted in continuous rows)
- **QMBR** - Quick Mount Bracket for Surface Mounting (Set of (2))



V-CLIPS



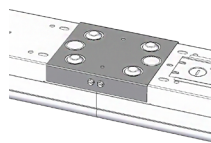
HB-XX-PAD



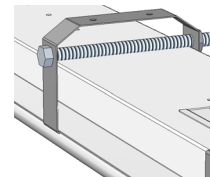
FMB



HUB ¾ CONDUIT



ALBR



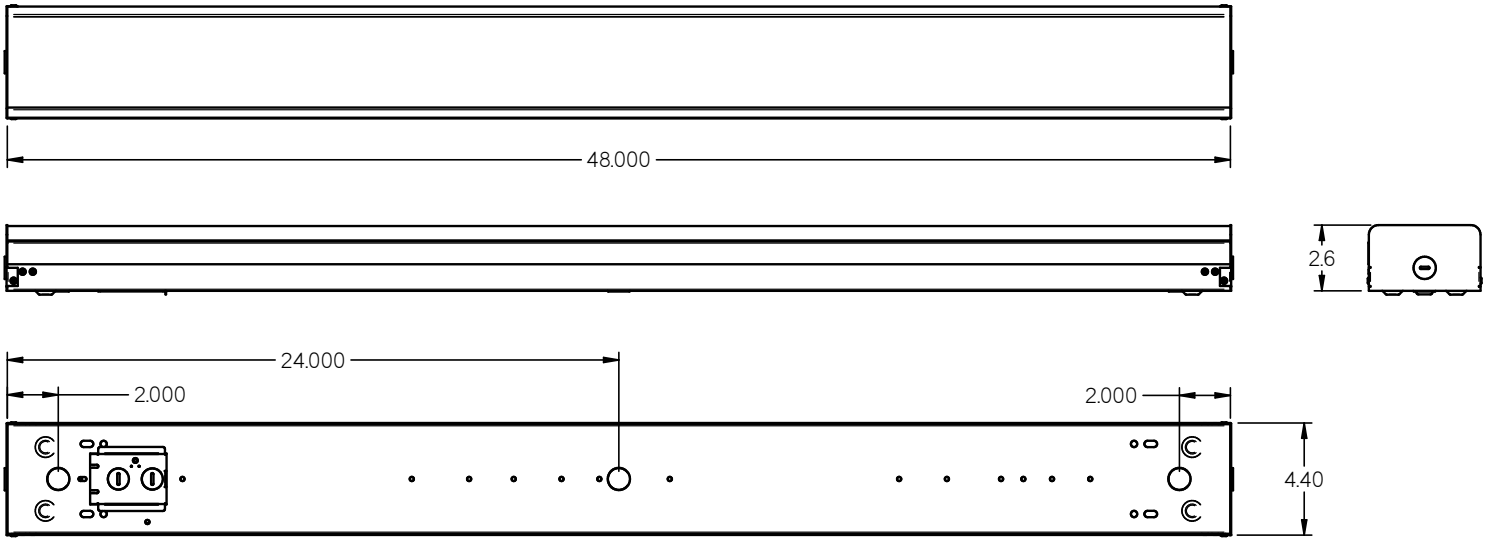
QMBR

FZ

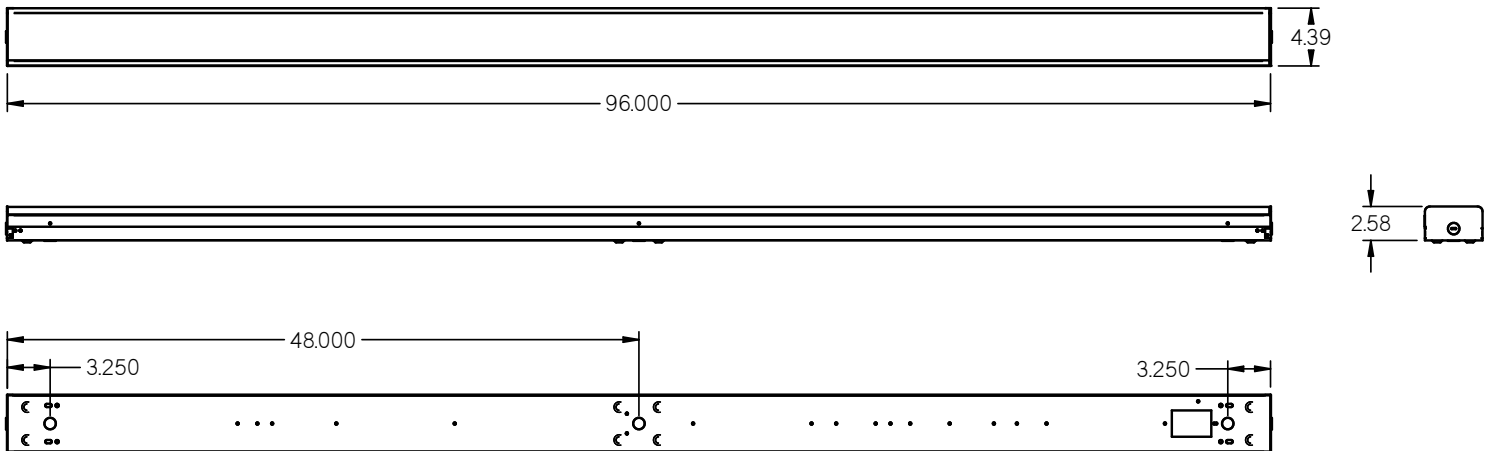
LOW PROFILE STRIP

LINE DRAWING

FZ4:



FZ8:



LOW PROFILE STRIP

ADVANCED CONTROLS OPTIONS

EASYSENSE

ES

EasySense sensor combines occupancy sensing, daylight harvesting & institutional tuning in one compact solution. This is an ideal control for any commercial application. Each sensor allows you to turn on/off occupancy and/or daylight harvesting functions as well as set the full light output, background light level, occupancy prolong time, occupancy grace fading time and occupancy time out/hold time. Requires the use of EasySense Pre-Programmed Control Device (ES/PCD), or approved phone from compatibility list; one needed per project.



ES/PCD

Pre-Programmed EasySense Control Device. One needed per project. Sensor can also be programmed with the approved compatible cell phone (listed below).

Compatible Cell Phones:

- LG G4
- Samsung S5
- Samsung Note 4
- Samsung S4 Mini
- Samsung S6
- Samsung Note Edge 1
- Samsung S4

ES/WWS/DR

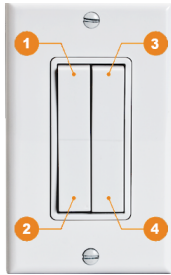
Optional Wireless / Batteryless Dual Rocker Wall Switch. Up to 100ft range. Functions include: On/Off, dimming and setting of (2) scenes for full room control.

Specifications:

- Wireless
- ZigBee®
- Batteryless
- 30-100ft Range
- Dual Rocker

Functions:

1. On (Hold to brighten up)
2. Off (Hold to dim down)
3. Scene 1
4. Scene 2



LUTRON

VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Providing with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



AWNR

Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



ENLIGHTED

5E/CU/IL

Bundled System with Enlighted 5E sensor (SU-5E-IL), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy & ambient light. Includes ability to group fixtures together and connect to a switch to zone fixtures for group operation. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information.



5E/CU/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/CU/IOT

Bundled System with Enlighted 5E sensor (SU-5E-IOT), Control Unit (CU-4E-FM) and Cable (CBL-5E-CU4-30N). Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. Energy Manager provides data analysis for all data collected by Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/IL

Bundled System with Enlighted 5E sensor (SU-5E-IL) & Cable (CBL-5E-CU4-30N) paired with a driver with auxiliary power and 5 wire connection. Fixtures are controlled based on occupancy and ambient light. Includes ability to group fixtures together and connect to a switch to zone fixtures for group operation. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL) & Cable (CBL-5E-CU4-30N) paired with a driver with auxiliary power & 5 wire connection. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

5E/5W/IOT

Bundled System with Enlighted 5E sensor (SU-5E-IOT) & Cable (CBL-5E-CU4-30N) paired w/ a driver w/ auxiliary power and 5 wire connection. Fixtures are controlled based on occupancy & ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

PHOTOMETRIC REPORTS

Photometric values based upon tests performed in compliance with LM-79. IES files can be downloaded at www.ilp-inc.com

FZ4-20WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	95.4%
EFFICIENCY (Uplight):	4.6%
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	3096.3
INPUT WATTS:	22.2415

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees

FZ4-32WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	95.8%
EFFICIENCY (Uplight):	4.2%
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	4268.636
INPUT WATTS:	32.4712

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees

FZ4-40WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	95.9 %
EFFICIENCY (Uplight):	4.1 %
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	5879.027
INPUT WATTS:	40.62

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees

FZ4-55WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	94.9 %
EFFICIENCY (Uplight):	5.1 %
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	7314.931
INPUT WATTS:	53.9995

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees

FZ8-40WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	95.3%
EFFICIENCY (Uplight):	4.7%
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	6215.038
INPUT WATTS:	43.7

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees

FZ8-64WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	95.6%
EFFICIENCY (Uplight):	4.4%
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	8583.105
INPUT WATTS:	64.03

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees

FZ8-80WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	95.9 %
EFFICIENCY (Uplight):	4.1 %
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	11763.04
INPUT WATTS:	81.5

PLANE AND CONE DIAGRAM

Bilaterally Symmetric
Solid: 180-0 Degrees Dashed: 90-270 Degrees

FZ8-110WLED-U-40-FRAL

SUMMARY DATA

HEMISPHERES TESTED:	BOTH
EFFICIENCY (Downlight):	94.7 %
EFFICIENCY (Uplight):	5.3 %
CIE CLASSIFICATION:	DIRECT
LUMENS/LAMP:	14694.33
INPUT WATTS:	107.8

PLANE AND CONE DIAGRAM

Quadrilaterally Symmetric
Solid: 0 Degrees
Small Dash: 40 Degrees
Large Dash: 90 Degrees