



fluobus[™]
T5 fluorescent up/downlights

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Litelab's FluoBus product line is ideal for architectural lighting designs that require a combination of fluorescent and task lighting. FluoBus combines Litelab's unique BusRun busway track lighting with a T5 fluorescent up or downlight component, in an attractive suspended extrusion system.





The PACE Gallery located in the 798 Arts District of Beijing relies on FluoBus to light their collection and provide general uplighting in the gallery spaces.



FluoBus may be configured as a single lighting component up to 4 meters long, as a grid formation, as a linear lighting system, or wall-mounted as a wall grazing system. In all configurations, you may specify either light source as up or downlight. Both the T5 and the BusRun may be configured as continuous or intermittent up or down light, or both in the same run.

Additionally, these fixtures have several unique features. Accessories include louvers, lenses, and dimming ballasts. Ballast placement is under the fixture so the fluorescents butt end-to-end for a “no dark spots” appearance. If the application requires a more finished appearance, the bus maybe replaced by a solid snap-in aluminum cover with track fixtures permanently attached – perfect for over the conference table.

with Litelab’s Jewelers Collection in mind, the bus is the only UL-approved system to accept other manufacturers’ track fixtures. Consult Litelab’s Application Department for product selection assistance.

The system can be wall-mounted as well as cable or pendant mounted. Starters can be fed with color coordinated cables or pendants depending on the amperage required. BusRun’s 60 amp maximum capacity allows for installation economy of fewer longer runs should the job require it.

The variety of design permutations of this product makes it a welcome tool in the designer’s tool box. Put it to the test, and specify it on your next job.

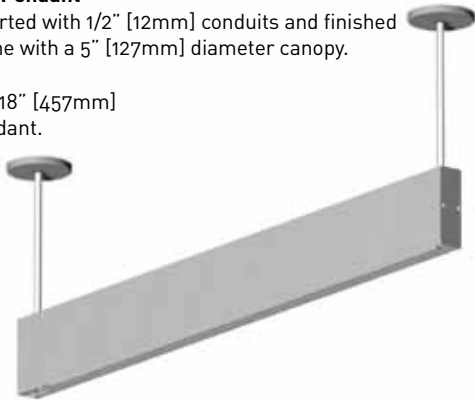
fluobus: mounting options



Ceiling Mounted Pendant

FluoBus is supported with 1/2" [12mm] conduits and finished at the ceiling plane with a 5" [127mm] diameter canopy.

Mounting height 18" [457mm]
standard for pendant.

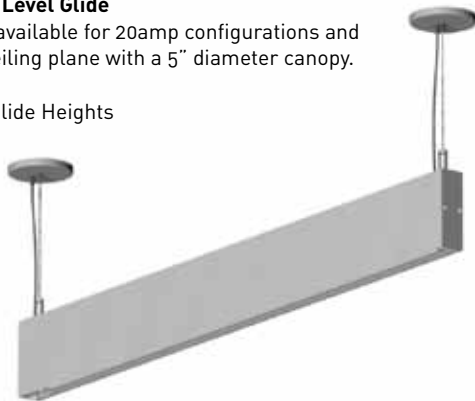


The image shown above details the FluoBus **FB** configuration (shown on the right page.) This option provides uplighting from T5 fluorescent fixtures and task lighting from adjustable Par fixtures that plug into the lower BusRun channel.

Ceiling Mounted Level Glide

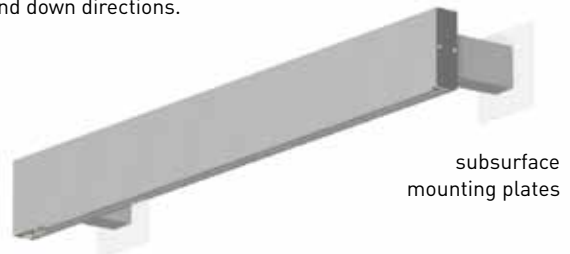
Level glides are available for 20amp configurations and finished at the ceiling plane with a 5" diameter canopy.

Standard Level Glide Heights
48" [1200mm]
96" [2400mm]
120" [3000mm]



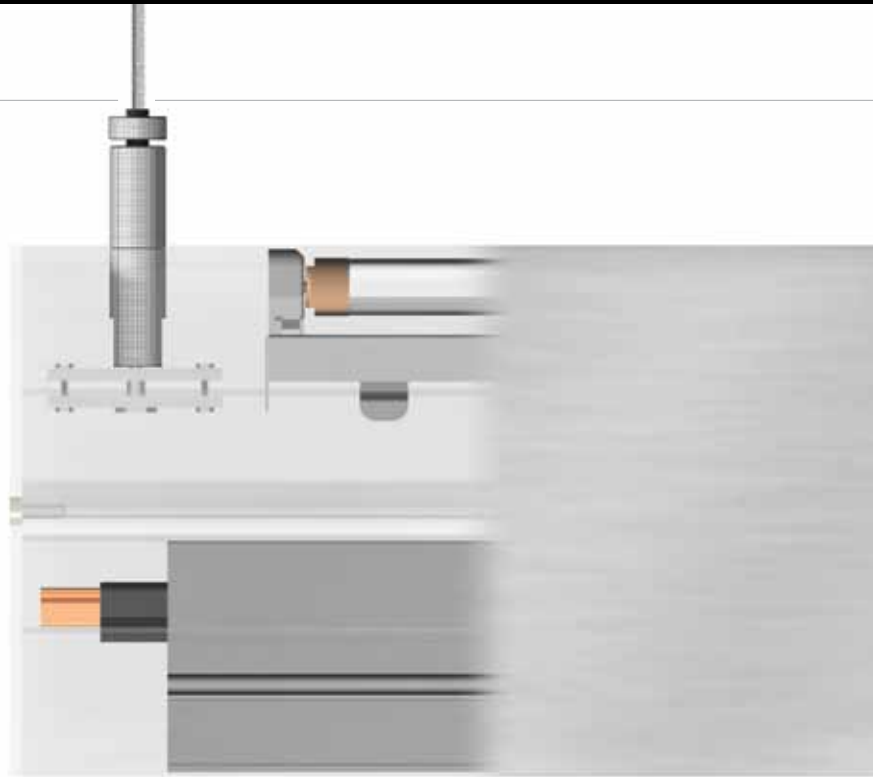
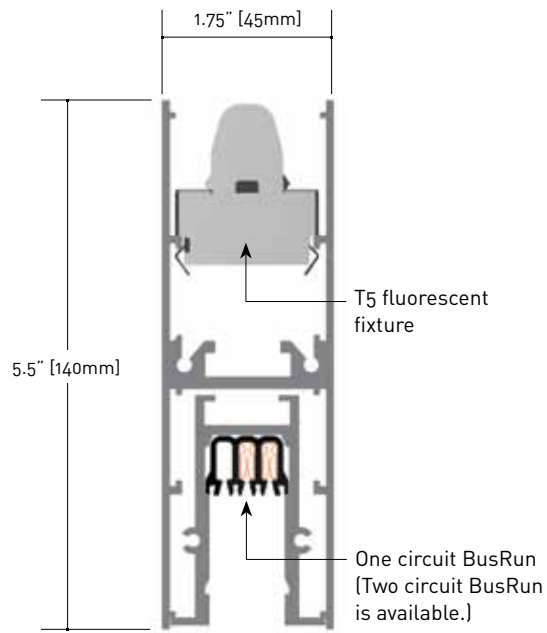
Wall Mounted

FluoBus can mount to vertical surfaces providing an option for wallwashing in both up and down directions.



subsurface
mounting plates

fluobus: configurations



FB

T5 fluorescent fixture in the upper channel and BusRun in the lower channel.



BF

BusRun in the upper channel and T5 fluorescent fixture in the lower channel.



FF

T5 fluorescent fixtures located in both channels.



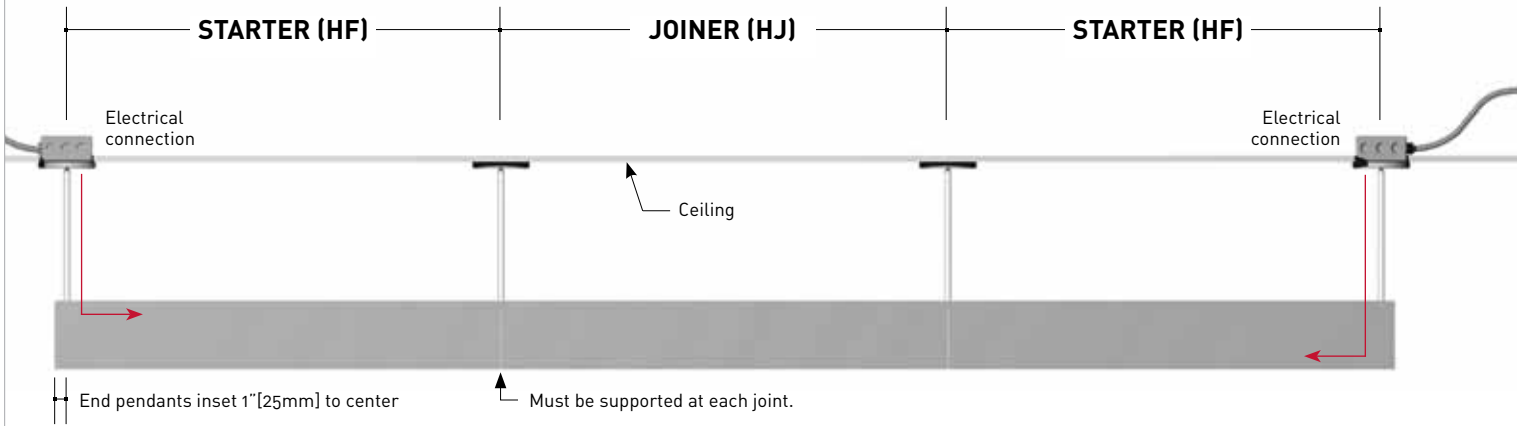
BB

BusRun located in both channels.

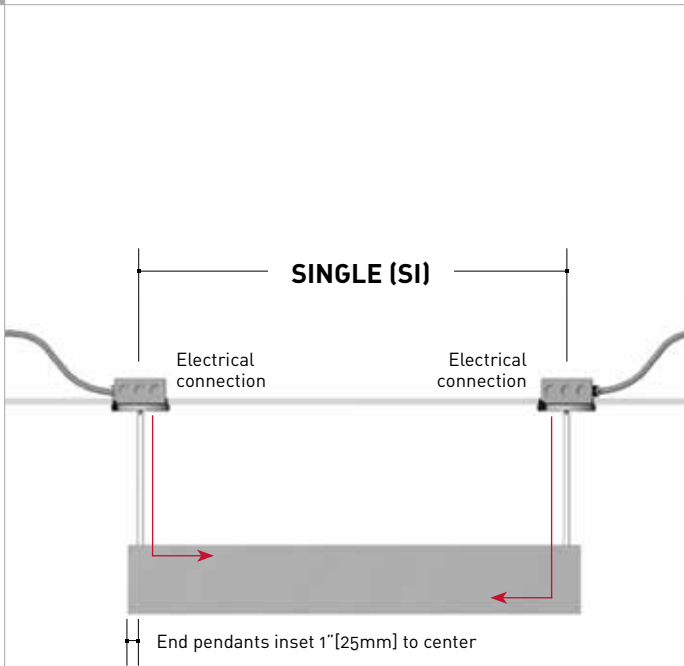


fluobus: pendant spacing

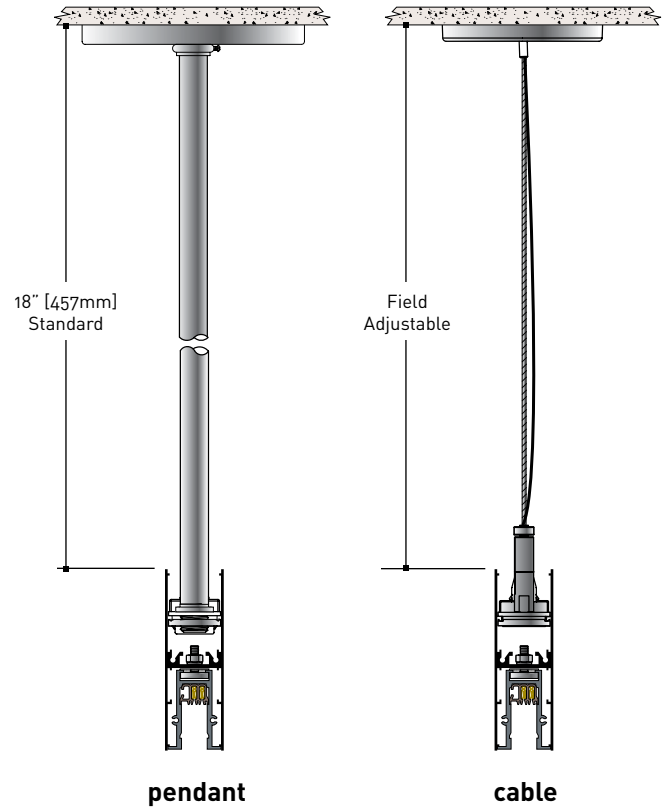
The system is designed to work just like a track system with starters at both ends – one for the uplight and one for the downlight. The various section lengths are designed around T5 lamp lengths, however the system may be modified in length to fit the architecture of the space. Straight runs of FluoBus, as shown below, are constructed from starters and joiners.



elevation of linear run - pendant/cable

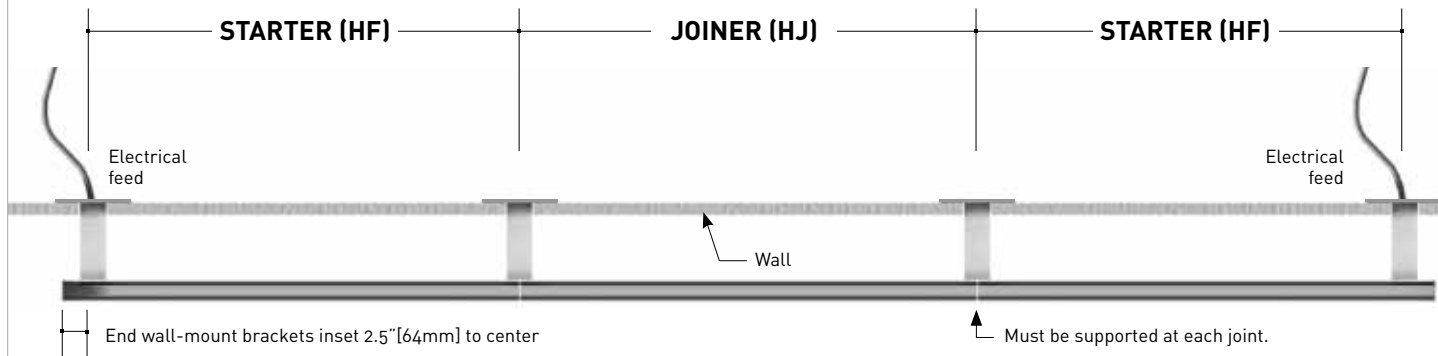


elevation of single pendant/cable

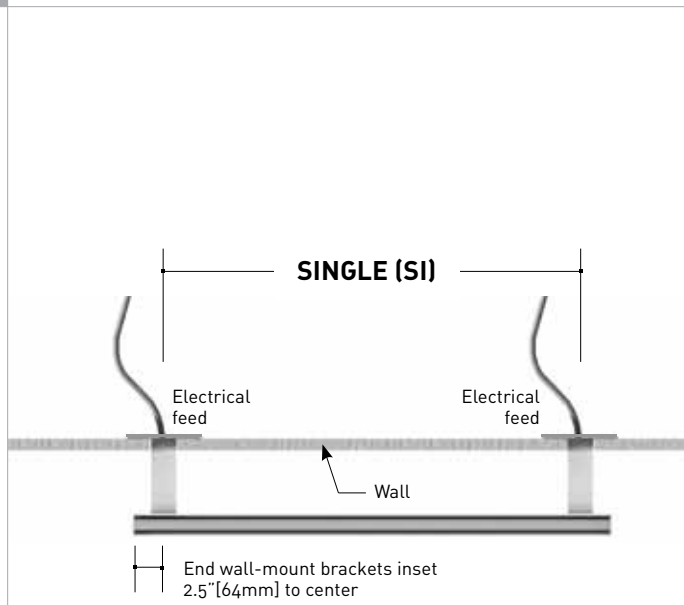


fluobus: wall mounted spacing

The wall-mount system, like the hanging system, is built using starters and joiners, with the exception that the feeds run through an armature that attaches to the wall of the FluoBus. When installed, the FluoBus system mounts 6" [152mm] from the wall surface. Ballast placement is under the fixture so the fluorescents butt end-to-end for a "no dark spots" appearance.



plan of linear run - wall-mount



plan of single wall-mount



Wall-Mounting Layout

Consult with the Litelab factory for assistance in the layout and mounting of wall-mount FluoBus.

fluobus: T5 standard configurations

FluoBus utilizes T5 fluorescent fixtures in 3' [900mm] and 4' [1200mm] combinations based on the length of the FluoBus starter, joiner, or single unit. The chart below details the combinations. The fixtures can accept either standard or high output fluorescent lamps [depending on length]. Note that single FluoBus units are slightly longer to accommodate the hanging hardware.

Nominal Lengths	Lamp Combinations <i>[nominal lengths]</i>	Starter	Joiner	Single
		⁺² ▼ +1	⁺¹ ▼ +1	⁺² ▼ +2
3' [900mm]	(1) 3'	NA	37" [940mm]	39" [991mm]
4' [1200mm]	(1) 4'	NA	49" [1245mm]	51" [1295mm]
6' [1800mm]	(2) 3'	72" [1829mm]	72" [1829mm]	73" [1854mm]
7' [2100mm]	(1) 3' (1) 4'	84" [2134mm]	84" [2134mm]	86" [2184mm]
8' [2400mm]	(2) 4'	96" [2438mm]	96" [2438mm]	97" [2464mm]
9' [2700mm]	(3) 3'	108" [2743mm]	108" [2743mm]	109" [2769mm]
10' [3000mm]	(2) 3' (1) 4'	120" [3048mm]	120" [3048mm]	120" [3048mm]
11' [3400mm]	(1) 3' (2) 4'	133" [3378mm]	133" [3378mm]	133" [3378mm]
12' [3600mm]	(3) 4'	144" [3658mm]	144" [3658mm]	145" [3683mm]

fluobus: luminaire options

While the bus component of the system was designed with Litelab's Jewelers Collection in mind, the bus is the only UL-approved system to accept other manufacturers' track fixtures. A complete line of fixtures is available at www.litelab.com. Consult Litelab's Application Department for product selection assistance.



Museum Collection



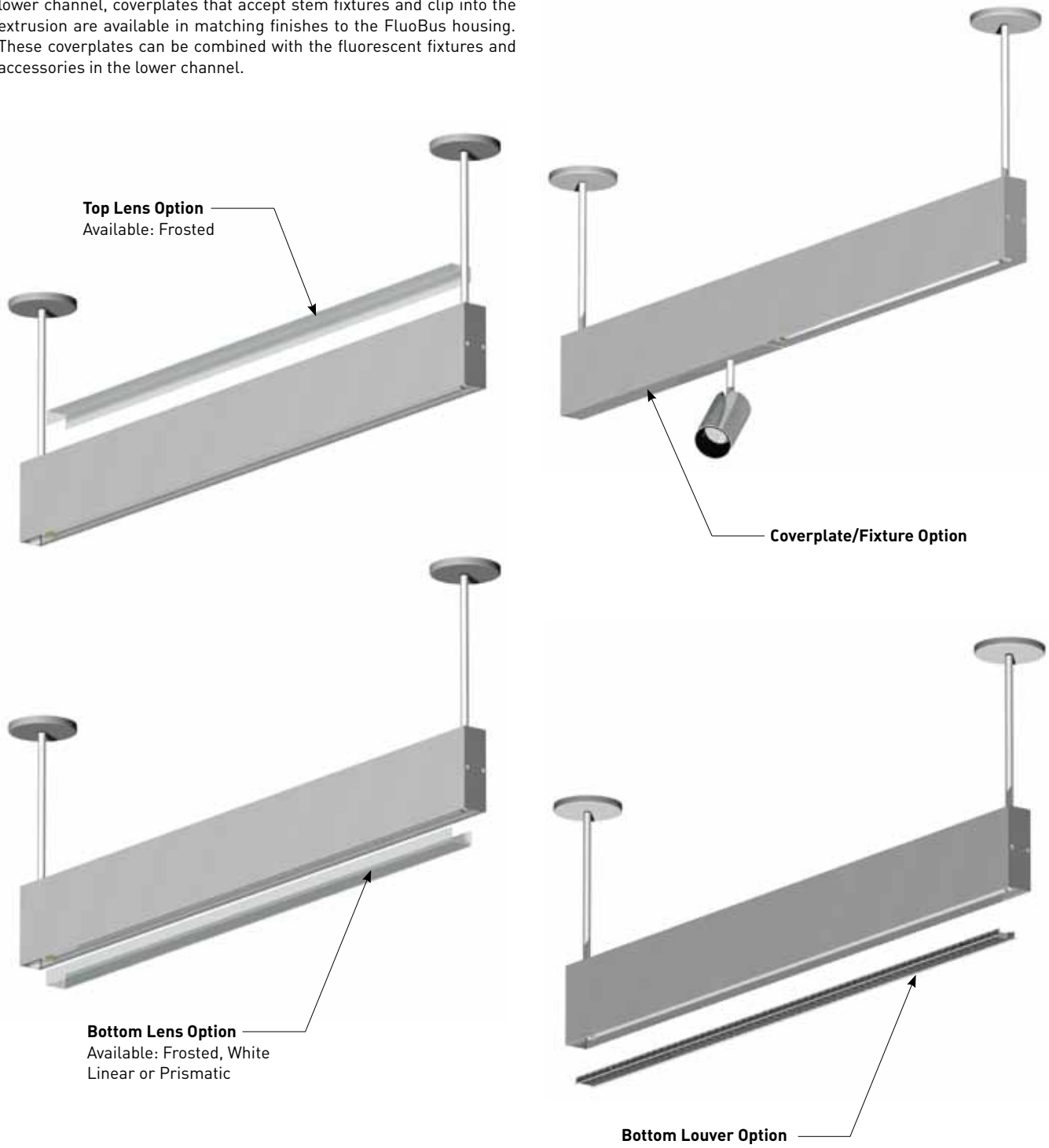
Fundamentals Collection



Jewelers Collection

fluobus: accessories

To control and direct the fluorescent light, Litelab offers a range of lens and louvers as shown below. To provide a finished look to the lower channel, coverplates that accept stem fixtures and clip into the extrusion are available in matching finishes to the FluoBus housing. These coverplates can be combined with the fluorescent fixtures and accessories in the lower channel.



system specifications

FluoBus is a combination fluorescent/bus–uplight/downlight–lighting system composed of an aluminum extruded housing 5.5”x 1.75” [140mm x 45mm] and finished in a durable powder coat paint or a natural brushed finish. The extrusion contains an upper and lower channel that accepts T5 fluorescent fixtures and BusRun Busway. The fluorescent fixtures and bus are interchangeable in upper and lower channels or may be used exclusively in one or both. Both the fluorescent and bus are available in 120/230 volt and in 16, 20, 30 or 60 amps per circuit depending on the configuration. Both one and two circuit bus are available.

The system can be specified as a single unit, 3’ -12’ [900mm - 3200mm] or in continuous runs, requiring starters and joiners, up to 12’ [3200mm] in length. Grids can also be constructed using L, T, and X connections. Please consult with Litelab for assistance with grid layouts.

FluoBus can be suspended from plaster or acoustical tile ceilings with either rigid pendants or cable glide systems. The standard height for pendants is 18” [457mm] and field adjustable cable glides are available in 4’ - 10’ [1200mm-3000mm] lengths.

FluoBus can also be wall mounted 6” [152mm] from the surface using preattached extruded aluminum armatures 2”W x 3”H [51mm x 76mm] and aluminum mounting plates that anchor behind the finished wall surface.

The BusRun Busway is UL-approved and accepts all Litelab fixtures and plug-ins as well as fixtures by other manufacturers [requires Litelab fitters]. T5 fluorescent fixtures can be specified as either standard or high output.

For more details, please contact Litelab Corp. or visit www.litelab.com.

fluobus: standard lengths

The chart below details the standard FluoBus lengths for single units and continuous runs. Single units contain both starters (one for each channel) whereas continuous runs require 2 starters - one at each end and joiners to construct the run.

nominal lengths	Single Unit		Continuous Run	
	single (HS)		starter (HF)	joiner (HJ)
3’0” [900mm]	39” [991mm]	HS39	NA	37” [940mm] HJ37
4’0” [1200mm]	51” [1295mm]	HS51	NA	49” [1245mm] HJ49
6’0” [1800mm]	73” [1854mm]	HS73	72”/1829mm	72”/1829mm HJ72
7’0” [2100mm]	86” [2184mm]	HS86	84”/2134mm	84”/2134mm HJ84
8’0” [2400mm]	97” [2464mm]	HS97	96”/2438mm	96”/2438mm HJ96
9’0” [2700mm]	109” [2769mm]	HS109	108”/2743mm	108”/2743mm HJ108
10’0” [3000mm]	120” [3048mm]	HS120	120”/3048mm	120”/3048mm HJ120
11’0” [3400mm]	133” [3378mm]	HS133	133”/3378mm	133”/3378mm HJ133
12’0” [3600mm]	145” [3683mm]	HS144	144”/3658mm	144”/3658mm HJ144

FB
Fluorescent [upper]
BusRun [lower]



FF
Fluorescent [upper]
Fluorescent [lower]



BF
BusRun [upper]
Fluorescent [lower]







BB
BusRun [upper]
BusRun [lower]



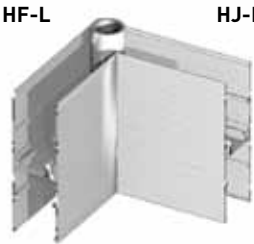
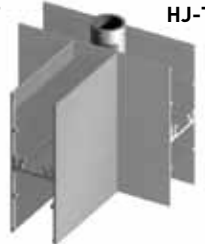
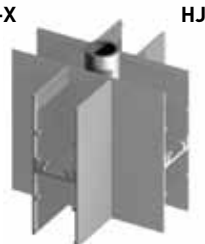
mounting options

<p>Ceiling Mounted Pendant</p> <p>Standard Height 18" [457mm]</p> 	<p>Ceiling Mounted Level Glide</p> <p>Level Glide Heights 48" [1200mm] 96" [2400mm] 120" [3000mm]</p> 	<p>Wall Mounted</p> <p>Please consult with Litelab for details.</p> 
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fluobus: accessories

<p>Top Lens</p> <p>H-ACC-TL-FR Frosted</p> 	<p>Coverplate/Fixture</p> <p>H-ACC-CV-P White H-ACC-CV-MB Black H-ACC-CV-ST Silver Tone H-ACC-CV-NT Brushed Aluminum</p> <p>Consult factory for layout.</p> 
<p>Bottom Lens</p> <p>H-ACC-BL-FR Frosted H-ACC-BL-WH White H-ACC-BL-LN Linear H-ACC-BL-PR Prismatic</p> 	<p>Bottom Louver</p> <p>H-ACC-LVR-MB Black</p> 

fluobus: grid layout options

<p>Similar to Litelab's BusRun Busway, FluoBus can be configured in grid layouts using L, T, and X connections. For assistance in the layout of FluoBus grids, i.e. to determine the number and location of feeds and joiners, and to determine the proper hanging methods, please consult with Litelab.</p>	<p>HF-L HJ-L</p> 	<p>HF-T HJ-T</p> 	<p>HF-X HJ-X</p> 
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jewelers collection

<p>The system was designed with Litelab's Jewelers Collection in mind, although with a Litelab fitter other manufacturers' fixtures may be used. Shown at right are several fixtures from the Jewelers Collection. For more information on this line visit www.litelab.com.</p>	<p>J19MR16</p> 	<p>J21MR16</p> 	<p>J17AR70</p> 	<p>J18AR70</p> 
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This document contains both conceptual renderings and products that are subject to change based on design, engineering, and manufacturing review and analysis.