

# FEMTOLINE



Architect: Govaert & Vanhoutte

Architect: Beckers Noyez Architecten

The range of Femtoline profiles is very extensive, with each family member having its own specific design and application area. Small or wider profile design, down or down-up lighting, ceiling or floor.

**Listing**  
ETL certified to US and Canadian safety standards  
**Warranty**  
5-year limited warranty

**Profile/Cross Section Dimensions**  
See page 2-4; Light Effects on Page 5.

Specification	FTL 25 / 25F	FTL 35	FTL 35 F HE	FTL 35 F HE DU	FTL TR/TRWP	FTL 45	FTL 35 F HE WG
LED Type:	LEDflex	LEDflex	LEDflex	LEDflex	LEDflex	LEDflex	LEDflex
Installation:	Surface mount	Surface / suspended	Knife-edged recessed / surface / suspended	Suspended	Mud-in recessed	Recessed	Surface mount
Body/Extrusion:	Anodized aluminum powdercoated	Anodized aluminum powdercoated	Anodized aluminum powdercoated	Anodized aluminum powdercoated	Anodized aluminum powdercoated	Anodized aluminum powdercoated	Anodized aluminum powdercoated
Endcaps:	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Finish:	Anodized aluminum / Black / White	Anodized aluminum / Black / White	Anodized aluminum / Black / White	Black / White	Anodized aluminum	Anodized aluminum / Black / White	Anodized aluminum / Black / White
Lens:	Sandblasted polycarbonate	Sandblasted polycarbonate	Sandblasted, Prismatic, or Longitudinal Glare Control polycarbonate with internal reflector	Sandblasted polycarbonate with internal reflector	Sandblasted, Prismatic, or Longitudinal Glare Control polycarbonate with internal reflector	Sandblasted polycarbonate with internal reflector	Polycarbonate wall grazer with internal reflector

Performance	LP Static CCT	MP Static CCT	FP Static CCT	HP Static CCT	Soft Dim	Tunable White	RGB
CCT Options:	2700K, 3000K, 3500K, 4000K				3000-1800K	2700-5700K	RGB
CRI:	90+				90+	90+	90+
*Power:	1.5W/ft	3.1W/ft	4.6W/ft	6.1W/ft	5.6W/ft	5.9W/ft	3.4W/ft
Delivered Lumens: (FTL 25 / 25F / 35 / 45)	110 lm/ft	198 lm/ft	384 lm/ft	530 lm/ft	310 lm/ft	236 lm/ft	R: 56 lm/ft G: 197 lm/ft B: 45 lm/ft
Delivered Lumens: (FTL 25FT)	59 lm/ft	112 lm/ft	216 lm/ft	332 lm/ft	175 lm/ft	133 lm/ft	R: 31 lm/ft G: 111 lm/ft B: 25 lm/ft
Delivered Lumens: (FTL 25TP)	112 lm/ft	202 lm/ft	392 lm/ft	539 lm/ft	316 lm/ft	241 lm/ft	R: 57 lm/ft G: 202 lm/ft B: 45 lm/ft
Delivered Lumens Downlight: (FTL 35 F HE / DU / WG)	105 lm/ft	210 lm/ft	402 lm/ft	550 lm/ft	324 lm/ft	247 lm/ft	R: 58 lm/ft G: 207 lm/ft B: 46 lm/ft
Delivered Lumens Uplight: (FTL 35 F HE DU)	41 lm/ft	82 lm/ft	156 lm/ft	244 lm/ft	125 lm/ft	96 lm/ft	R: 22 lm/ft G: 80 lm/ft B: 18 lm/ft
Maximum per 96W Driver:	61' 11/16"	31' 15/32"	20' 11/16"	15' 3/4"	16' 13/32"	33'	28' 17/32"
LED Cut Length:	2"	1 5/16"	2 7/16"	2"	2 7/16"	2 13/16"	2"
Damp Rated (IP20) Option:	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wet Rated (IP65) Option*:	Yes	Yes	Yes	No	No	No	Yes
McAdam Step:	3			2			
LED Maintenance:	L70>40,000h			L70>60,000h			
Voltage:	24V						
Dimming:	Standard 0-10V dim 120-277V (1%), FE ELV dim 120V (1%)						
Power Supply:	96W, Constant Voltage driver with 0.9+ power factor and 90+% efficiency						

Data in chart reflects 3000K/90 CRI values unless otherwise noted. For emergency lighting, inverter system is by others. Consult factory for more information. \* Wet rated (IP65) not available in FTL 35 F HE WG.

**Ordering - Recessed**

SEE NEXT PAGE FOR SURFACE MOUNT

Example: P-FTLTR-35BD-B-RMTCT-TWSPD-X-S84

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Body	Installation	Size (W x H)	Lens	Body Finish	Application	Controls	CCT	Power*	Rating	Hardware Finish <sup>3</sup>	Layout	Length
P-FTL Fentoline Profile	RF Recessed with flange	45 45mm x 29mm / 1 3/4" x 1 1/8"	U U-shaped regressed sandblasted polycarbonate	A Anodized aluminum	RMT Remote Power Supply	D1 0-10V dim 120-277V	27 2700K	LP Low Power	D Damp	X No finish hardware	S Straight run <118"	Nominal length in inches
	TR Knife-edge recessed	35B Black channel width: 34mm / 1 5/16" with FTL-35 as the light module	D' U-shaped sandblasted polycarbonate  U U-shaped sandblasted polycarbonate Continuous diffuser entire specified length	B Black  W White		D8 FE ELV dim 120V	30 3000K  35 3500K	MP Medium Power  FP Full Power	W <sup>2</sup> Wet		SJ Straight run >118" (joined bodies)  L L-Shape (2-sided)	<i>For longer straight runs &amp; all other shapes, continue to configuration grid on page 6</i>
	TR Recessed with mud-in flange for drywall; flat surface install with flush lens	35FHE 67mm x 33mm / 2 5/8" x 1 5/16" with high efficiency reflector	S Sandblasted polycarbonate (20mm / 25/32" wide)  P Prismatic (20mm / 25/32" wide)  L Longitudinal Glare Control (20mm / 25/32" wide)	A Anodized aluminum		40 4000K	SD 3000- 1800K	SP Standard Power	D Damp		U U-Shape (3-sided)  R Rectangle (4-sided)	
	TRWP Recessed with mud-in flange for drywall; corner install with regressed lens	35FHE 51mm x 73mm / 2" x 1 1/8" with high efficiency reflector	S Sandblasted polycarbonate (26mm / 1" wide)  L Longitudinal Glare Control (26mm / 1" wide)			CT DMX512-A / RDM 4-channel	TW 2700- 5700K	SP Standard Power	D Damp  W Wet		C Custom	

<sup>1</sup> To specify variable spacing to create dashes and patterns of light within the black channel, specify lengths and spacing in Downlight Pattern on page 6.  
<sup>2</sup> High Power not available in Rating W (Wet).  
<sup>3</sup> Applies to coverplate or PB (Power Box).  
 \* Refer to Power in Performance section on page 1.

**Finish Options - Recessed**

	P-FTL-45	P-FTL-35B	P-FTL-35	P-FTL-35FHE TR Lens S	P-FTL-35FHE TR Lens P	P-FTL-35FHE TR Lens L	P-FTL-35FHE TRWP Lens S	P-FTL-35FHE TRWP Lens L
FINISH								
A								
B				N/A	N/A	N/A	N/A	N/A
W		N/A		N/A	N/A	N/A	N/A	N/A

**Ordering - Surface Mount**

SEE NEXT PAGE FOR SUSPENDED

Example: P-FTLSA-35FHEWX-W-RMTD8-30FPD-X-L

Body	Installation	Size (W x H)	Lens	Uplight*	Body Finish	Application	Controls	CCT	Power*	Rating	Hardware Finish <sup>3</sup>	Layout	Length
P-FTL Femtoline Profile	SF Surface mount, flat	35FHE 25mm x 37mm / 1" x 1 7/16" with high efficiency reflector	S Sandblasted polycarbonate flush	X No linear uplight	A Anodized aluminum  B Black  W White	RMT Remote Power Supply	D1 0-10V dim 120-277V  D8 FE ELV dim 120V	27 2700K  30 3000K  35 3500K  40 4000K	LP Low Power  MP Medium Power  FP Full Power  HP <sup>2</sup> High Power	D Damp  W <sup>2,4</sup> Wet	X No finish hardware	S Straight run <118"	Nominal length in inches
			P Prismatic										
		L Longitudinal Glare Control											
		WG <sup>4</sup> Wallgrazer, sandblasted polycarbonate											
		U U-shaped sandblasted polycarbonate	SJ <sup>1</sup> Straight run >118" (joined bodies)  L <sup>1</sup> L-Shape (2-sided)  U <sup>1</sup> U-Shape (3-sided)  R <sup>1</sup> Rectangle (4-sided)  C Custom										
	35 21mm x 35mm / 1 3/16" x 1 3/8"	U U-shaped sandblasted polycarbonate											
	25F <sup>1</sup> 25mm x 30mm / 1" x 1 1/16"	F Flush sandblasted polycarbonate  T 45° tilted sandblasted polycarbonate  TP L-shaped squared corner, asymmetric											
	25 21mm x 24mm / 1 3/16" x 1 5/16"	U U-shaped sandblasted polycarbonate											
	SA Surface mount, tilt bracket set	35FHE 25mm x 37mm / 1" x 1 7/16" with high efficiency reflector		WG <sup>(4)</sup> Wallgrazer, sandblasted polycarbonate	CT DMX512-A / RDM 4-channel	TW 2700- 5700K  RGB Full Color	SP Standard Power  SP Standard Power	D Damp  D Damp  W <sup>4</sup> Wet					

<sup>1</sup> No special hardware available for Size 25F; mount end-to-end for longer runs. <sup>2</sup> High Power not available in Rating W (Wet). <sup>3</sup> Applies to coverplate or PB (Power Box). <sup>4</sup> Wallgrazer (Lens WG) not available with Wet LEDflex (Rating W).  
\* Refer to Power in Performance section on page 1.

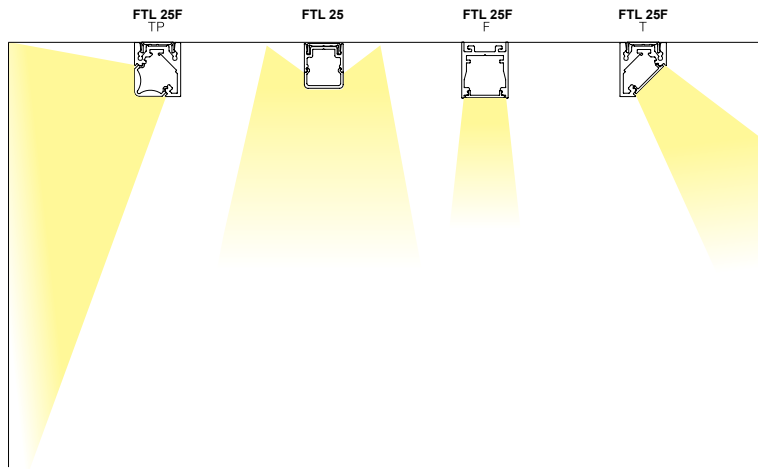
**Finish Options - Surface Mount**

	P-FTL-35FHE Lens S	P-FTL-35FHE Lens P	P-FTL-35FHE Lens L	P-FTL-35FHEWG	P-FTL-35	P-FTL-25FF	P-FTL-25FT	P-FTL-25FTP	P-FTL-25U
FINISH									
A									
B									
W									



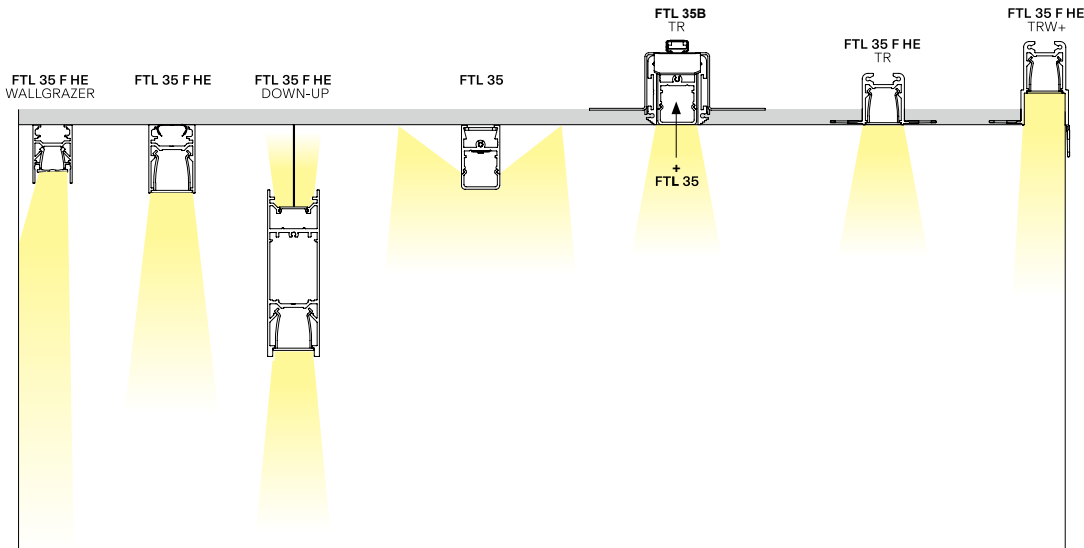
### Femtoline 25

The smallest of the range for surface mounted lighting solutions.



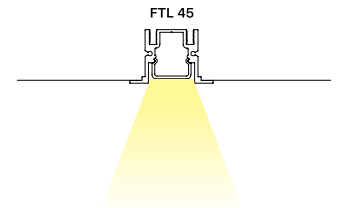
### Femtoline 35

The most versatile of the range with multiple mounting and optical configurations.

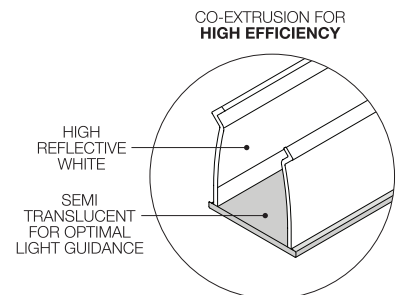
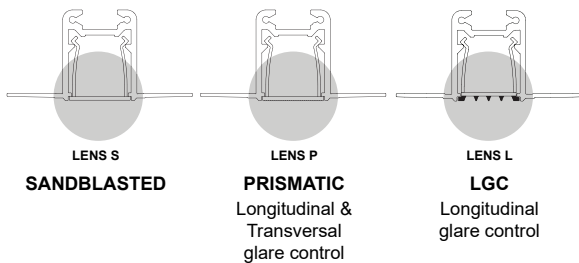


### Femtoline 45

The recessed flange solution that allows for installation in non-drywall applications such as stone, tile, wood, and more.



LENS OPTIONS



### Configuration - Profile Hardware

OPTIONAL - COMPLETE FOR EACH STRAIGHT RUN >118" & ALL OTHER SHAPES

Example: C-FTL-35FHE-96-C90-72 (L-Shape)

-  -  -  -  -  -  -  -  -

Body Type	Size (W x H)	Length	Connection	Length	Connection	Length	Connection	Length	Connection
<b>C-FTL<sup>1</sup></b> Femtoline Profile Configuration	<b>25</b> 21mm x 24mm / 0"-13/16 x 0"-15/16	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket
	<b>45</b> 45mm x 29mm / 1"-3/4 x 1"-1/8								
	<b>35</b> 21mm x 35mm / 0"-13/16 x 1"-3/8	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>C90</b> 90° joiner bracket
	<b>35B</b> 34mm x 38mm / 1"-5/16 x 1"-1/2		<b>S180</b> 180° joiner bracket		<b>S180</b> 180° joiner bracket		<b>S180</b> 180° joiner bracket		<b>S180</b> 180° joiner bracket
	<b>35FHE</b> 25mm x 37mm / 1" x 1"-7/16								
<b>35FHEDU</b> 28mm x 90mm / 1"-1/8 x 3"- 9/16	_____ Nominal length in inches  Straight run <118"	<b>S180</b> 180° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>S180</b> 180° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>S180</b> 180° joiner bracket	_____ Nominal length in inches  Straight run <118"	<b>S180</b> 180° joiner bracket	

<sup>1</sup> No special hardware available for Size 25F; mount end-to-end for longer runs.  
Continue for all sections / connections for each run.

### Configuration - Downlight Pattern

OPTIONAL - ONLY FOR SIZE 35B LENS D

Example: L-FTLTR-35BD-X15-45-X15-45-X15-12-X15

-  -  -  -  -  -  -

Luminaire	Lens	Space	Luminaire Length	Space	Luminaire Length	Space	Luminaire Length
<b>L-FTLTR-35B</b> Downlight pattern for FTL 35B TR	<b>D</b> U-shaped sandblasted polycarbonate  Dashes and patterns of light within contin- uous black channel	<b>X</b> _____ Nominal length in inches	_____ Nominal length in inches  Straight run <118"	<b>X</b> _____ Nominal length in inches	_____ Nominal length in inches  Straight run <118"	<b>X</b> _____ Nominal length in inches	_____ Nominal length in inches  Straight run <118"

### Configuration - Linear LEDflex Uplight

OPTIONAL - ONLY FOR SIZE 35FHEDU UPLIGHT L

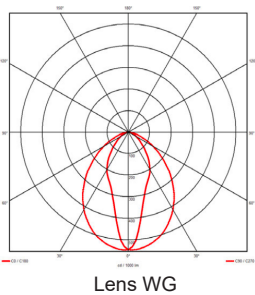
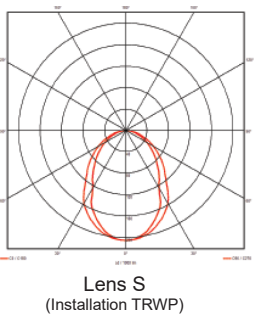
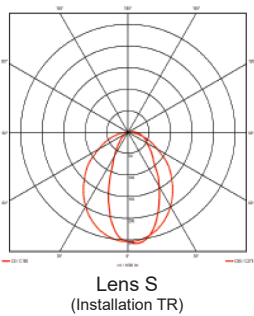
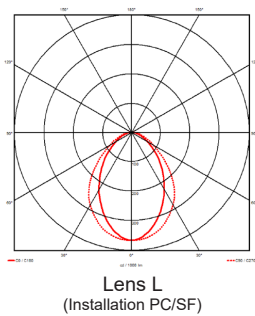
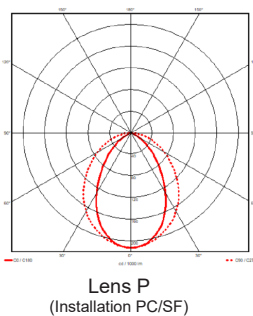
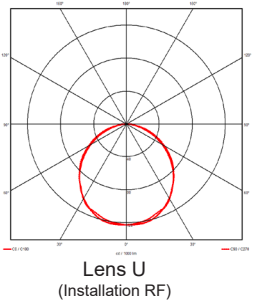
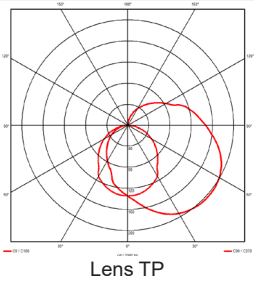
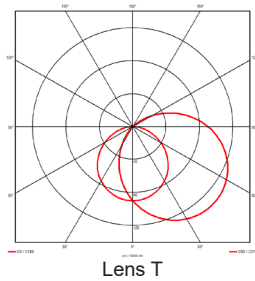
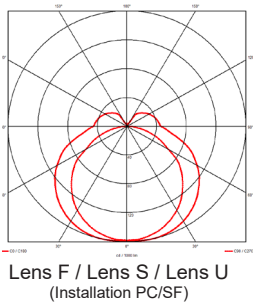
Example: L-FTLPC-35FHEDUX-27MPW-RMTD8

Luminaire	Lens	CCT	Power*	Rating	Application	Controls	
L-FTLPC-35FHEDU Uplight for FTL 35F HE Down-Up	HE High efficiency flush polycarbonate with internal reflector  X <sup>1</sup> No uplight lens	27 2700K	LP Low Power	D Damp	RMT Remote Power Supply	D1 0-10V dim 120-277V	
		30 3000K	MP Medium Power	W <sup>2</sup> Wet			
		35 3500K	FP Full Power				
		40 4000K	HP <sup>2</sup> High Power				D8 FE ELV dim 120V
		CL Continuous COB					
		SD 3000-1800K	SP Standard Power	D Damp			
		TW 2700-5700K	SP Standard Power	D Damp	RMT Remote Power Supply	CT DMX512-A / RDM 4-channel	
RGB Full color	SP Standard Power	D Damp					
			W Wet				

<sup>1</sup> If opting for no lens, Rating W (Wet) is recommended to protect the LEDflex.  
<sup>2</sup> High Power not available in Rating W (Wet).  
 \* Refer to Power in Performance section on page 1.

### Photometric Data

#### FULL POWER STATIC CCT

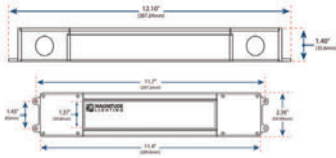


## Installation Options

### REMOTE DRIVER (With Controls D8)

A: 12'-1/8" x B: 1"-1/4" x C: 2"-3/8"  
 A: 307.34mm x B: 32.26mm x C: 59.94mm

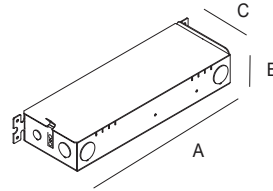
- For Remote application
- ETL Listed
- Damp rated



### REMOTE DRIVER (With Controls D1)

A: 12" x B: 2"-7/8" x C: 4"-1/4"  
 A: 305mm x B: 72mm x C: 108mm

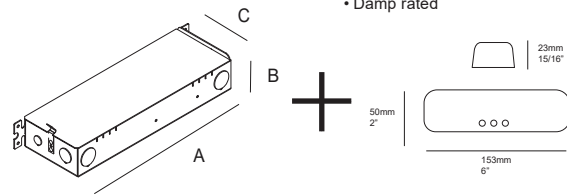
- For Remote application
- ETL Listed
- Damp rated



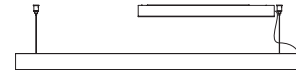
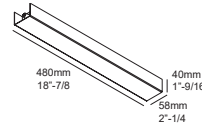
### REMOTE DRIVER (With Controls CT)

A: 12" x B: 2"-7/8" x C: 4"-1/4"  
 A: 305mm x B: 72mm x C: 108mm

- For Remote application
- ETL Listed
- Damp rated



### POWER BOX



NOTE: Option for Installation PC only

## Driver Options

### D1

- Dimming Control 0-10V
- Dimming Range 10-100%
- Dim to off yes
- Power Factor @ Full Load >0.95
- Efficiency @ Full Load ≥90
- THD @ Full Load <10%

### D8

- Dimming Control Phase Control
- Dimming Range 1-100%
- Dim to off yes
- Power Factor @ Full Load >0.95
- Efficiency @ Full Load ≥90
- THD @ Full Load <10%

### CT

- Dimming Control DMX512-A / RDM / DALI
- Dimming Range 0-100%
- LED Outputs 4
- Power Factor @ Full Load >0.95
- Efficiency @ Full Load ≥90
- THD @ Full Load <10%

As technology changes, please use information above as guidance. For most recent updated information please contact factory. Specifications subject to change without notice.