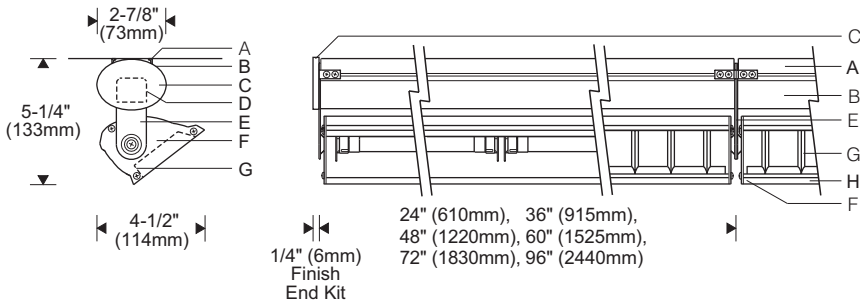
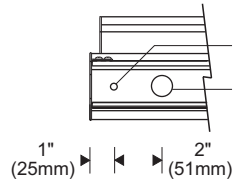


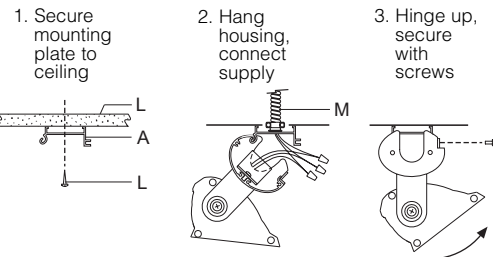
Ceiling Mount: 1:8 Scale



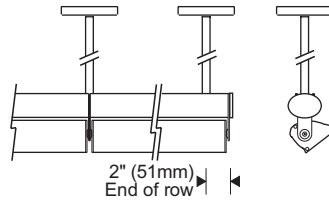
Mounting Plate
(S mount)



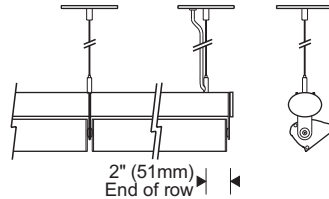
Installation (S mount)



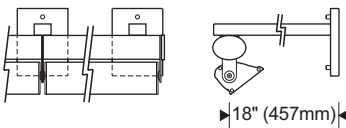
Hangers (X mount)
Pendant Stems



Cables



Cantilevers



Specifications

- | | | | |
|---|---|---|--|
| A Extruded aluminum mounting plate | D Electronic ballast | H Specular extruded aluminum reflector | L Support structure and fasteners (by others) |
| B Extruded aluminum ballast housing | E Aluminum sidearm | J Mounting hole, (3) 9/32" (7mm) dia. | M Conduit and connector (by others) |
| C AFE finish end kit (aluminum end plates for ballast housing) | F Contoured aluminum end plate | K Knockout, (2) 7/8" (22mm) dia. | |
| | G Snap-in specular parabolic baffle (optional) | | |

Finish:

Semi-gloss white housing and end plates or bright clear anodized aluminum reflector with semi-gloss black end plates, sidearms and ballast housing.

Painted surfaces – 6 stage pretreatment and electrostatically applied thermoset powder coat for stable, long lasting and corrosion resistant finish.

Reflector – extruded high purity aluminum with clear anodized specular finish. All luminaire hardware – stainless steel.

Mounting:

S mount – mounting plate fastens flush to ceiling. Unit hinges on plate for hands-free access to wiring.

X mount – stems, cables or cantilevers **ordered separately**

Pendant stem – 11/16" O.D. aluminum, internally threaded.

Cable – 1/16" dia. 7x7 aircraft cable, field adjustable length.

Cantilever – 1" x 2" steel arm. Interface plate (under canopy) allows ±5° leveling, **suitable support structure required.**

Electrical:

Use 90°C wire for supply connections and through wire.

S mount – 7/8" (22mm) dia. knockouts at ends of mounting plate for conduit feed (by others). Accessory end feed kit provides entry for surface conduit at end of ballast housing.

X mount – electrical feed hanger mounts over recessed outlet box (by others) and **must be located at end of row.**

Housing hinges down for access to ballast and wiring. Optional #12 AWG prewired modular through wiring with quick connectors.

Integral electronic HPF thermally protected class P ballast with end-of-life protection.

Optional electronic dimming ballast; compatible dimmer switch required (by others). Consult sales representative for compatibility and specifications.

Optional integral emergency battery operates one lamp. Separate unswitched supply is required.

Standard:

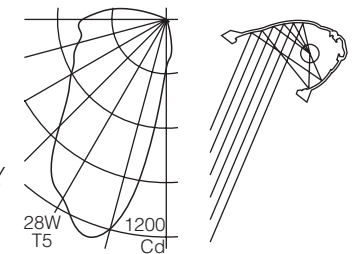
UL listed or CSA certified for damp locations (Style 124 painted model with lens recommended for damp locations).

Features

- **KO Series** – unequalled T5 fluorescent wall lighting for cost and energy conscious projects
- Ideal for retail perimeters, displays, corridors, chalkboards
- Adjustable – accommodates setback and height of wall
- Versatile – surface, cantilever, stem or cable mounting
- Integral electronic ballast – dimming, emergency optional

Performance

Two parabolic reflector sections drive light to the bottom of the wall. An elliptical section shields the lamp from normal viewing angles and redirects its light to a parabola. Glare is minimized and asymmetry of the beam is maximized resulting in high beam efficiency and superior surface uniformity.



For complete photometrics, visit thelightingquotient.com



To form a Catalog Number

F | 1 | 0 | 9 | - | T | | | | - | | | - | | | - | | | |

1 2 3 4 5 6 7 8

1 Source

F = Linear fluorescent

2 Style

109 = Small KO Series contoured, integral ballast

3 Lamp

Note: To order by overall row length, enter ROW CODE (see Row Chart on page W-8.2) in place of Lamp Code below. Row Codes specify a row complete with all necessary luminaires and end plates. Hangers are ordered separately.

T | | | = T5 Fluorescent Lamp Code

Lamp Wattage (see chart below)

Number of Lamps in Length, specify 1 or 2

Example: T121 = 3' (915mm) housing with one 21W T5 lamp

Length*	T5		T5HO	
	Code	Lamp(s)	Code	Lamp(s)
T5 Fluorescent				
24" (610mm)	T114	1 x F14T5	T124	1 x F24T5/HO
36" (915mm)	T121	1 x F21T5	T139	1 x F39T5/HO
48" (1220mm)	T128	1 x F28T5	T155	1 x F54T5/HO
60" (1525mm)	T135	1 x F35T5	T180	1 x F80T5/HO
72" (1830mm)	T221	2 x F21T5	T239	2 x F39T5/HO
96" (2440mm)	T228	2 x F28T5	T255	2 x F54T5/HO

For complete lamp and ballast information, see Accessories Section. Standard T5 lamp color is 3000K/80+ CRI.

*Add 1/2" (13mm) to row or single unit for AFE Finish End Kit.

4 Mounting

S = Ceiling (surface) mount

X = For use with pendant stem, cable or cantilever hangers (order separately)

5 Finish

02 = Semi-gloss white

81 = Bright clear anodized reflector with semi-gloss black end plates, side arms and ballast housing

99 = Custom RAL or computer matched color to be specified, consult sales representative

Project: _____

6 Voltage/Ballast

Electronic

1 = 120V

2 = 277V

3 = 347V (Canada)

Dimming*

T = 120V

V = 277V

* Consult sales representative for dimming 5' lamps (lamp codes Tx35, Tx80). Availability for wattages and voltages varies with ballast manufacturer and control type – see thelightingquotient.com for additional dimming specifications and limitations.

Note: When dimming X mount luminaires, order two (2) electrical feed stems, cables or cantilevers for each single unit or row to accommodate the control circuit.

7 Option (see Accessories Section for specifications)

00 = No option

0B = Snap-in parabolic cross baffles, specular finish, provides 35° lengthwise shielding

0E = Integral emergency battery pack with indicator lamp and test button. Available in 4', 5', 6' and 8' units (lamp codes T128, T135, T221, T228, T155, T239 and T255). Operates one lamp.

0K = Prewired modular #12 AWG through wiring with quick connectors

0EK = Combination of emergency battery pack and prewired modular through wiring as described above

0BE = Combination of parabolic baffle and emergency battery

0BK = Combination of parabolic baffle and modular wiring

0BC = Combination of parabolic baffle, emergency battery and modular wiring

0XX = For modification not listed, include detailed description. Consult factory prior to specification.

8 Destination Requirement

0 = UL listed or CSA certified for U.S.

J = UL listed or CSA certified for Canada

Example

F109 - T121 - X - 81 - 2 - 0B0

Small KO Series contoured model for use with one 3' F21T5 lamp, 36" long housing (not including AFE finish end kit, order separately). For use with pendant stem, cable supports or cantilever (order separately). Bright reflector with semi-gloss black end plates, side arms and ballast housing. Integral 277V electronic ballast. Snap-in parabolic cross baffle. UL listed or CSA certified for U.S.

Type: _____

Hangers

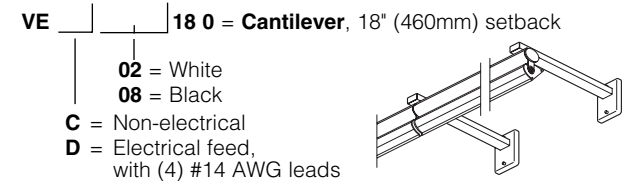
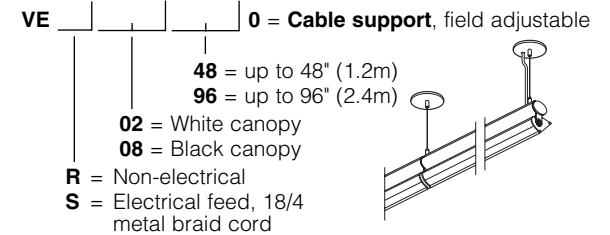
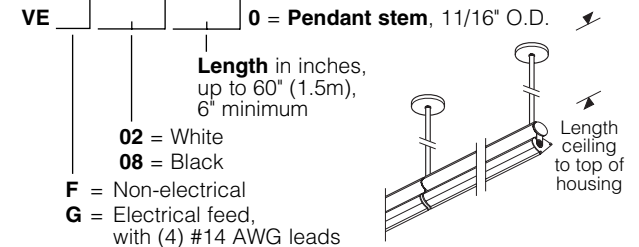
Order separately. See Accessories Section for specifications.

Singles – order one non-electrical and one electrical feed hanger for each module (X mount).

Rows – order one non-electrical hanger for each module (X mount) plus one electrical feed for each row.

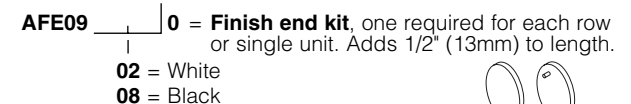
Note: For each single or row with dimming (voltage/ballast code T or V), order one additional electrical feed and subtract one non-electrical hanger.

Electrical feed(s) must be located at an end of row.

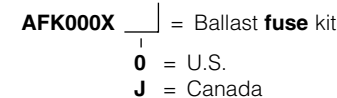


Accessories

Order separately. See Accessories Section for specifications.



ASC06000 = End feed kit, bracket with 7/8" dia. entry to secure surface conduit



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To order by Row Code - T5 Lamps

When the Style 109 small **KO Series** integral T5 fluorescent is run continuously in a **straight** row, **elliptipar** offers the option of specifying and ordering the entire row as one catalog number. Ordering by row eliminates the need to calculate length, type and quantity of reflectors and end plates.

Steps to specify Row Code:

1. Determine lamp type and select corresponding lamp code (**S**=T5, **V**=T5HO).
2. Determine maximum available length for row and round up to nearest foot. Find nominal row length in chart (col. 1).
3. Determine what lengths/wattages of lamps will be used and select the corresponding lamp combination codes (col. 2).
Example: If only 3' and 4' lamps are to be used on the project, specify row codes ending with **A**, **B** and/or **D** only.
4. If for a given nominal row length a preferred lamp combination is not listed, select the next shorter row that is available in the desired lamp combination.
5. Once the nominal row length and lamp combination has been found in the chart, note the actual overall row length (last column). Also consider if the quantity and lengths of the individual luminaires suit the installation.
6. Enter the four character Row Code in place of the Lamp Code described on page W-8.1. The remainder of the catalog number is formed as shown on page W-8.1.

Note: Stem, cable or cantilever hangers for use with X mount luminaires MUST be ordered separately.

3 Row Code

Note: Enter row code in place of Lamp Code on page W-8.1.

____ = Row Code

Lamp Combination(s)*

- A** = All nominal 3' lamps
- B** = All nominal 4' lamps
- D** = Nominal 3' and 4' lamps
- F** = Nominal 3' and 5' lamps
- G** = Nominal 4' and 5' lamps

Nominal Row Length in feet, between 3' and 50' **

- S** = T5 fluorescent
- V** = T5 HO fluorescent

* Not all lamp combinations are available for each nominal row length (see chart)
** Row lengths over 50' can be formed by combining shorter row lengths (example: a 60' row can be ordered as two 30' rows).

Example

F109 - S36B - S - 02 - 2 - 000

Nominal 36' long row of Style 109 small contoured **KO Series** T5 fluorescent using only nominal 4' (28W) lamps. Row includes four nominal 8' reflectors with two 4' lamps, one nominal 4' reflector with one 4' lamp, one **AFE** finish end kit and integral 277V ballasts. Overall row length is 36' 0-1/2".

Nominal Row Length (feet)	Lamp Combination	Nominal 3' Luminaire (1 x nominal 3' lamp)	Nominal 4' Luminaire (1 x nominal 4' lamp)	Nominal 5' Luminaire (1 x nominal 5' lamp)	Nominal 6' Luminaire (2 x nominal 3' lamps)	Nominal 8' Luminaire (2 x nominal 4' lamps)	AFE Finish End Kit	Overall Row Length
03	A	1					1	3' 0-1/2"
04	B		1				1	4' 0-1/2"
05	G			1			1	5' 0-1/2"
06	A				1		1	6' 0-1/2"
07	D	1	1				1	7' 0-1/2"
08	B					1	1	8' 0-1/2"
09	A	1			1		1	9' 0-1/2"
09	G		1	1			1	9' 0-1/2"
10	D		1		1		1	10' 0-1/2"
11	D	1				1	1	11' 0-1/2"
11	F			1	1		1	11' 0-1/2"
12	A				2		1	12' 0-1/2"
12	B		1			1	1	12' 0-1/2"
13	D	1	1		1		1	13' 0-1/2"
13	G			1		1	1	13' 0-1/2"
14	D				1	1	1	14' 0-1/2"
15	A	1			2		1	15' 0-1/2"
15	D	1	1			1	1	15' 0-1/2"
16	B					2	1	16' 0-1/2"
17	D	1			1	1	1	17' 0-1/2"
17	F			1	2		1	17' 0-1/2"
17	G		1	1		1	1	17' 0-1/2"
18	A				3		1	18' 0-1/2"
18	D		1		1	1	1	18' 0-1/2"
19	D	1				2	1	19' 0-1/2"
20	B		1			2	1	20' 0-1/2"
21	A	1			3		1	21' 0-1/2"
21	G			1		2	1	21' 0-1/2"
22	D		1		3		1	22' 0-1/2"
23	D	1	1			2	1	23' 0-1/2"
23	F			1	3		1	23' 0-1/2"
24	A				4		1	24' 0-1/2"
24	B					3	1	24' 0-1/2"
25	D	1			1	2	1	25' 0-1/2"
25	G		1	1		2	1	25' 0-1/2"
26	D		1		1	2	1	26' 0-1/2"
27	D	1				3	1	27' 0-1/2"
28	B		1			3	1	28' 0-1/2"
29	D	1	1		1	2	1	29' 0-1/2"
29	G			1		3	1	29' 0-1/2"

Nominal Row Length (feet)	Lamp Combination	Nominal 3' Luminaire (1 x nominal 3' lamp)	Nominal 4' Luminaire (1 x nominal 4' lamp)	Nominal 5' Luminaire (1 x nominal 5' lamp)	Nominal 6' Luminaire (2 x nominal 3' lamps)	Nominal 8' Luminaire (2 x nominal 4' lamps)	AFE Finish End Kit	Overall Row Length
30	A				5		1	30' 0-1/2"
30	D				1	3	1	30' 0-1/2"
31	D	1	1			3	1	31' 0-1/2"
32	B					4	1	32' 0-1/2"
33	A	1			5		1	33' 0-1/2"
33	G		1	1		3	1	33' 0-1/2"
34	D		1		1	3	1	34' 0-1/2"
35	D	1				4	1	35' 0-1/2"
36	A				6		1	36' 0-1/2"
36	B		1			4	1	36' 0-1/2"
37	D	1	1		1	3	1	37' 0-1/2"
37	G			1		4	1	37' 0-1/2"
38	D				1	4	1	38' 0-1/2"
39	D	1	1			4	1	39' 0-1/2"
40	B					5	1	40' 0-1/2"
41	D	1			1	4	1	41' 0-1/2"
41	G		1	1		4	1	41' 0-1/2"
42	A				7		1	42' 0-1/2"
42	D		1		1	4	1	42' 0-1/2"
43	D	1				5	1	43' 0-1/2"
44	B		1			5	1	44' 0-1/2"
45	A	1			7		1	45' 0-1/2"
45	D	1	1		1	4	1	45' 0-1/2"
45	G			1		5	1	45' 0-1/2"
46	D				1	5	1	46' 0-1/2"
47	D	1	1			5	1	47' 0-1/2"
48	A				8		1	48' 0-1/2"
48	B					6	1	48' 0-1/2"
49	D	1			1	5	1	49' 0-1/2"
49	G		1	1		5	1	49' 0-1/2"
50	D				3	4	1	50' 0-1/2"

Features

- Time saving – simplifies specification and ordering
- One catalog number – includes all necessary reflectors to install row plus **AFE** finish end kit (**X** mount stem, cable or cantilever hangers are ordered separately)
- Assured fit – all you need is the maximum available length of the ceiling



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