

INTENDED USE

The Alcon Lighting 12170 Linear Rail Lighting System is a flexible, high-performance solution for retail, office, industrial, and commercial environments. Designed for showrooms, supermarkets, warehouses, manufacturing facilities, and large open halls, it delivers efficient, uniform illumination while supporting evolving layouts through its modular rail design. Suitable for both standalone installations and continuous runs, the system provides a sustainable alternative to traditional fluorescent lighting, making it ideal for workplaces and professional indoor spaces that demand adaptability, visual comfort, and long-term performance.

FEATURES

Construction: Lightweight, ultra-thin, and intuitive design built for high-efficiency performance

Lens: Frosted flat

Mounting: Pendant with 10' cable or Surface kit

Finish: White

Beam Angle: 120°

Light Direction: 10% Uplight and 90% Downlight

Voltage: 100–347V AC

Dimming Driver: 0–10V down to 5%

Operating Temperature: –13°F to 104°F

Total Harmonic Distortion: ≤ 15%

Power Factor: 0.9

CRI: 80+

Life: 50,000 Hours

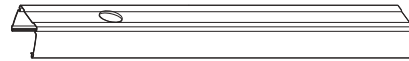
Warranty: 5 years Carefree for parts & components

(Labor not included)

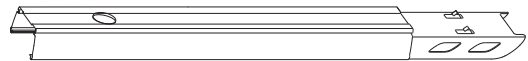
Listings: cETLus listed



Single Run 4' or 8'



Continuous Run with Run Joiner



Length	Wattage Selectable	Lumens	Efficacy	Color Temp
4'	55/60/65/70W	Up to 10500 lm	150 lm/W	3500K or 4000K
8'	110/120/130/140W	Up to 21000 lm		

ORDERING INFORMATION Example:

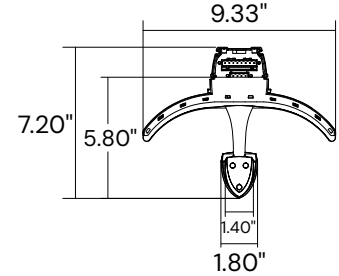
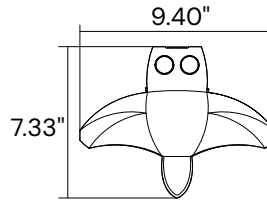
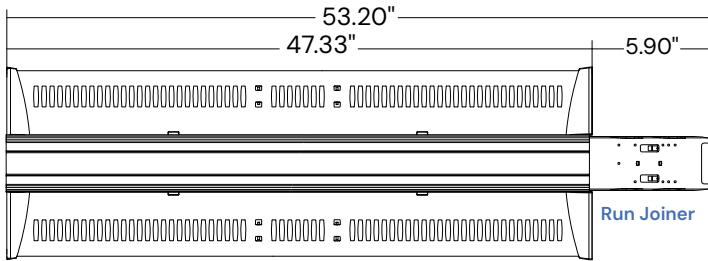
Model	Mounting	Length	Color Temperature	Options
12170	P Pendant S Surface	¹ F Single Run ^{CR} ₁ Continuous Run ₁ = 4' or 8' ₁ = Length	35K 3500K 40K 4000K	BC ² Blank Cover

¹ Continuous runs can reach up to 100' (120V AC), 230' (277V AC), or 290' (347V AC) on a single power feed. The maximum current must not exceed 16A per circuit.

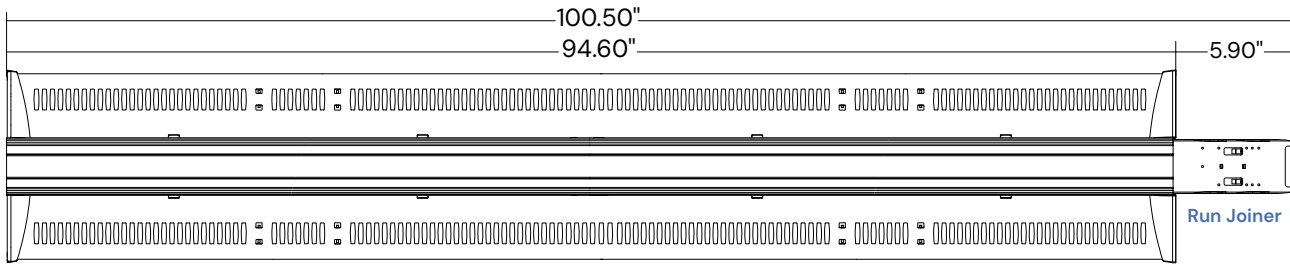
² It is equipped with an integrated stopper to block light emission from within the rail, ensuring a clean, continuous aesthetic in areas of a run that do not need illumination.

RUN DRAWINGS & DIMENSIONS

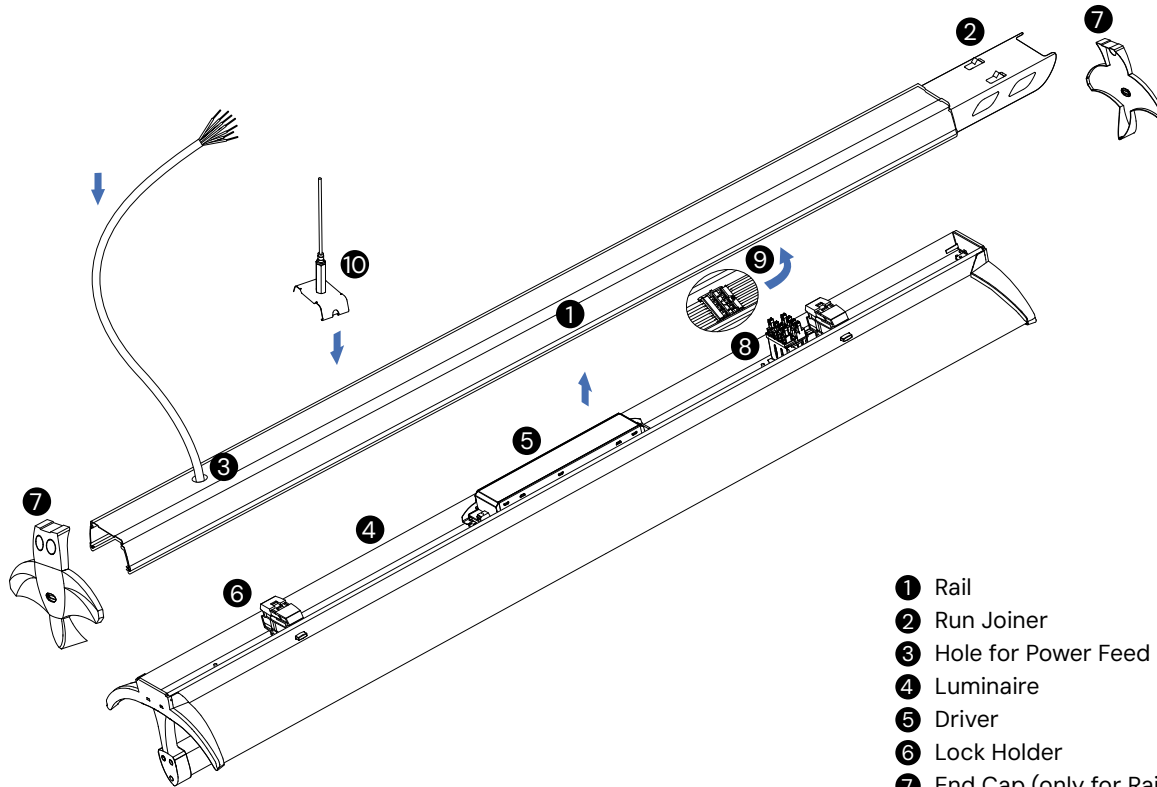
4'



8'



PRODUCT STRUCTURE

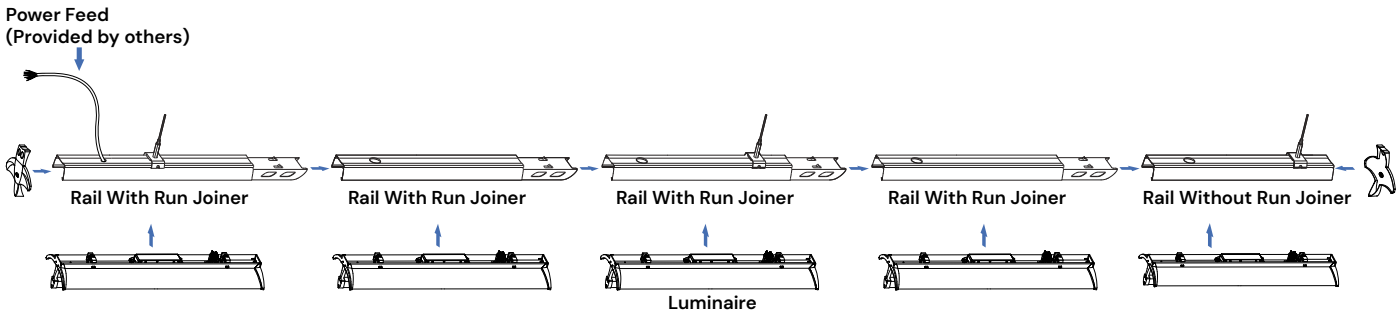


- ① Rail
- ② Run Joiner
- ③ Hole for Power Feed
- ④ Luminaire
- ⑤ Driver
- ⑥ Lock Holder
- ⑦ End Cap (only for Rail without Run Joiner)
- ⑧ Male Connector
- ⑨ Female Connector
- ⑩ Suspension Cord 10' or Surface Kit

CONTINUOUS RUN CHART

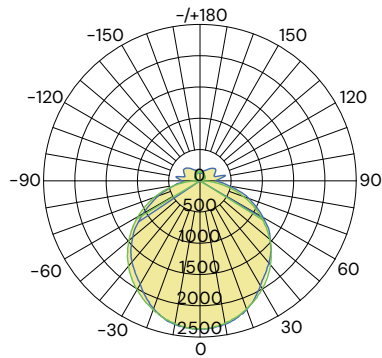
Luminaire Run Length (ft)	Run Configuration	Connector For Power Feed	End Cap	Suspension Cord 10' or Surface Kit	Rail With Run Joiner (For First or Middle Runs)	Rail Without Run Joiner (For Single or Last Runs)
4	4'	1	2	2	0	1
8	8'	1	2	2	0	1
12	8'+4'	1	2	2	1	1
16	8'+8'	1	2	2	1	1
20	8'+8'+4'	1	2	3	2	1
24	8'+8'+8'	1	2	3	2	1
28	8'+8'+8'+4'	1	2	4	3	1
32	8'+8'+8'+8'	1	2	4	3	1
36	8'+8'+8'+8'+4'	1	2	5	4	1

Kindly share your layout or specific dimensions of each Run to enable accurate calculation of accessories needed.



PHOTOMETRY

12170 / 60W / 4000K



AVERAGE BEAM ANGLE (50%): 116.2°

Lumens: 8385.16 lm
Watts: 60 W
LPW: 141.51 Lm/W
CCT: 4000K

UNIT:cd
— CO/180, 115.5°
— C90/270, 117.0°

Zonal Flux Diagram

T	CO	C45	C90	C135	C180
10	2331	2325	2317	2311	2334
20	2190	2194	2180	2177	2176
30	1935	1984	1992	1955	1912
40	1718	1700	1754	1668	1693
50	1468	1450	1459	1411	1408
60	1167	1152	1118	1087	1050
70	837.2	810.7	747.9	705.3	712.5
80	472.8	451	360	371.4	412.4
90	264.7	196	12.37	201.2	282.4
100	387.3	196.4	35.99	159.8	391.7
110	242.2	151	63.18	181.9	262.8
120	286.7	229.6	84.65	256.6	305.3
130	307.6	205	99.96	228.5	311.8
140	259.5	151.4	107.2	182.9	265.4
150	200.1	124.8	123.1	179.9	209.4
160	167.4	122.2	137.3	167.5	175.2
170	136.3	133.2	148.4	155	143.7
180	156.8	149.1	153.4	149.5	157.3
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	Φ total
0-10	224.2
10-20	864.2
20-30	1827
30-40	2984
40-50	4212
50-60	5367
60-70	6304
70-80	6928
80-90	7233
90-100	7446
100-110	7622
110-120	7808
120-130	8002
130-140	8155
140-150	8260
150-160	8331
160-170	8372
170-180	8385
UNIT: lm	

Luminance cd/(m2)

G(DEG)	CO/180	C90/270
85	15438	7518
80	10221	7650
75	9571	7907
70	9189	8070
65	8883	8183
60	8759	8252
55	8772	8327
50	8571	8375
45	8524	8428

COLOR TEMPERATURE GUIDE

