co:lab

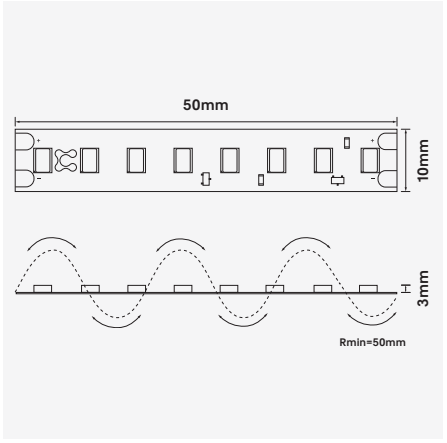
Project
Type:
Model:

Powerflex

10W / 12W / 18W / 21W High Efficiency Flexible LED Strip Lighting

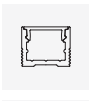
WATTAGE **10W / 12W / 18W / 21W** | VOLTAGE **24VDC** | **Bluetooth** | DALI | CE | WARRANTY **5YR**

120° | **3-Step** | CRI (Ra) **>90** | SINGLE **BIN** | IP **20**

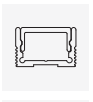


Example profile options[4]

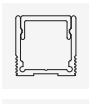
GHOST-1613-SM
W 16mm x H 13mm x L Custom



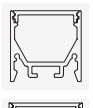
GHOST-2013-SM
W 20mm x H 13mm x L Custom



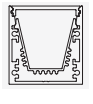
GHOST-2020-SM
W 20mm x H 20mm x L Custom



GHOST-2525-SM
W 25mm x H 25mm x L Custom



GHOST-3030-SM
W 30mm x H 30mm x L Custom



Using advanced LED technology, high colour rendering capability as standard and 3-Step-Mac-Adam single binning for superior colour consistency Powerflex presents an efficient and versatile 24V flexible LED system for optimised continuous lighting.

Available in a range of options the Powerflex series is a flexible alternative for a number of direct and indirect applications, complementing and enhancing architectural environments.

Integrating Vossloh-Schwabe control gear as standard and with optional DALI-2 dimming or Bluetooth Wireless upon request, the Powerflex series comes with a 5 year warranty.

- Luminaire wattage/m: 10W, 12W, 18W, 21W
- Luminous flux/m: 1344-1536Lm/m, 1680-1920Lm/m, 2520-2880Lm/m, 2940-3360Lm/m[2]
- Luminaire efficacy: 154.35Lm/W[1]
- Correlated colour temperature: 2700K, 3000K, 4000K
- Colour rendering index: >90[3]
- Single Bin CCT selection
- LED Source / Quantity: SMD2835; 160pcs/m
- Symmetrical distribution: 120°
- Minimum Cuttable Section: 50mm (group of 8 x SMD LED)
- Ingress protection rating: IP20
- Longevity: >50,000Hrs L80 B10
- Driver: Requires constant voltage 24VDC non dimmable LED driver as standard[4]
- Dimming: Remote DALI-2, BLE (basicDIM Wireless/ Casambi) on request[4]
- Warranty: 5 years[5]

Model	Luminous Flux/m[2]	LED Wattage/m	CCT	CRI[3]	Distribution	Number of LED/m	Max. Continuous Length/m
POWERFLEX-10W-27K	1344Lm	10W	2700K	>90	120°	160	5m
POWERFLEX-10W-3K	1411Lm	10W	3000K	>90	120°	160	5m
POWERFLEX-10W-4K	1536Lm	10W	4000K	>90	120°	160	5m
POWERFLEX-12W-27K	1680Lm	12W	2700K	>90	120°	160	5m
POWERFLEX-12W-3K	1764Lm	12W	3000K	>90	120°	160	5m
POWERFLEX-12W-4K	1920Lm	12W	4000K	>90	120°	160	5m
POWERFLEX-18W-27K	2520Lm	18W	2700K	>90	120°	160	5m
POWERFLEX-18W-3K	2646Lm	18W	3000K	>90	120°	160	5m
POWERFLEX-18W-4K	2880Lm	18W	4000K	>90	120°	160	5m
POWERFLEX-21W-27K	2940Lm	21W	2700K	>90	120°	160	5m
POWERFLEX-21W-3K	3087Lm	21W	3000K	>90	120°	160	5m
POWERFLEX-21W-4K	3360Lm	21W	4000K	>90	120°	160	5m

For Non-dimming add suffix ND
For DALI-2 dimming add suffix D
For BLUETOOTH dimming add suffix BT

Example product order code configuration: POWERFLEX-18W-3K-ND

Model		Wattage		CCT		Driver
POWERFLEX	+	**18W**	+	**3K**	+	**ND**

1 Luminaire efficacy based on 3000K; CCT variation will alter efficacy
2 +/- 10% stated initial LED luminous flux tolerance
3 Colour rendering Index: >90 standard
4 Additional charges apply for non-standard CCT colour/s, accessories, LED drivers and dimming controls
5 Five year manufacturer's warranty covering product defects and performance deficiencies

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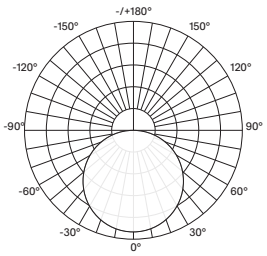
Light Distribution

POWERFLEX-21W-3K



Light output ratio

LOR	100%
ULOR	0%
DLOR	100%
FFR	0.00 (0:100)
BLF	1.00

LUMINANCE cd/(m²)

G(DEG)	C0/180	C90/270
85	168667	376000
80	179858	298548
75	236285	318454
70	239972	300370
65	267463	313046
60	265713	301927
55	280185	308870
50	276973	300863

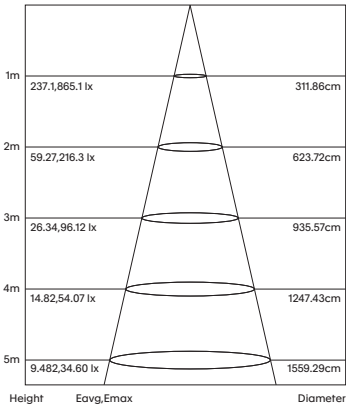
AVERAGE BEAM ANGLE (50%): 115.0 DEG

Utilisation Factors

Room Reflectance		
Ceiling	Walls	Floor
70	50	20

Room Index								
0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
54	63	71	75	76	84	93	98	101

Cone Diagram



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