

LUMEV.

LED LIGHTING



TPCE Series

**EXPLOSION PROOF
LED LINEAR LUMINAIRES**



(Please see the specification of UL HazLoc version)



TPCE Series Explosion Proof LED Linear Luminaires

Product description

The TPCE Serie is a ATEX IECEx Zone 1&21, Zone 2&22 explosion-proof LED linear fixture that replaces the traditional explosion-proof fluorescent lamp and explosion-proof triple proof lamp. High lumen, low power consumption, energy saving. High strength aluminum alloy enclosure, resistant to shock and vibration. High transparent PC cover reduces direct visual contact with the light source. Can use for marine environment.

Features

- Private mold designed for explosion-proof protection performance. Aluminum alloy body, maximize the best heat transmit.
- PC cover, excellent anti-corrosion performance Shock & vibration resistant, Anti-gare, >90% light transmit.
- Perfect to replace the traditional explosion-proof fluorescent light lamp shape.
- LED: 3030 LEDs, LM80 certified.
- High Efficiency LED driver, more than 50000 hours lifespan.
- Circuit design: 4KV/6KV Surge Protection power supply.
- Protection: IP66, high protection grade for waterproof and dust-proof.

Certification

ATEX:

- Ex II 2G Ex eb mb IIC T5 Gb;
- Ex II 2D Ex tb IIIC T75 °C Db;
- IP66;
- Certificate No: SEV 21 ATEX 0578 X;

IECEx:

- Ex eb mb IIC T5 Gb;
- Ex tb IIIC T75°C Db;
- IP66;
- Certificate No: IECEx SEV 21.0038X;

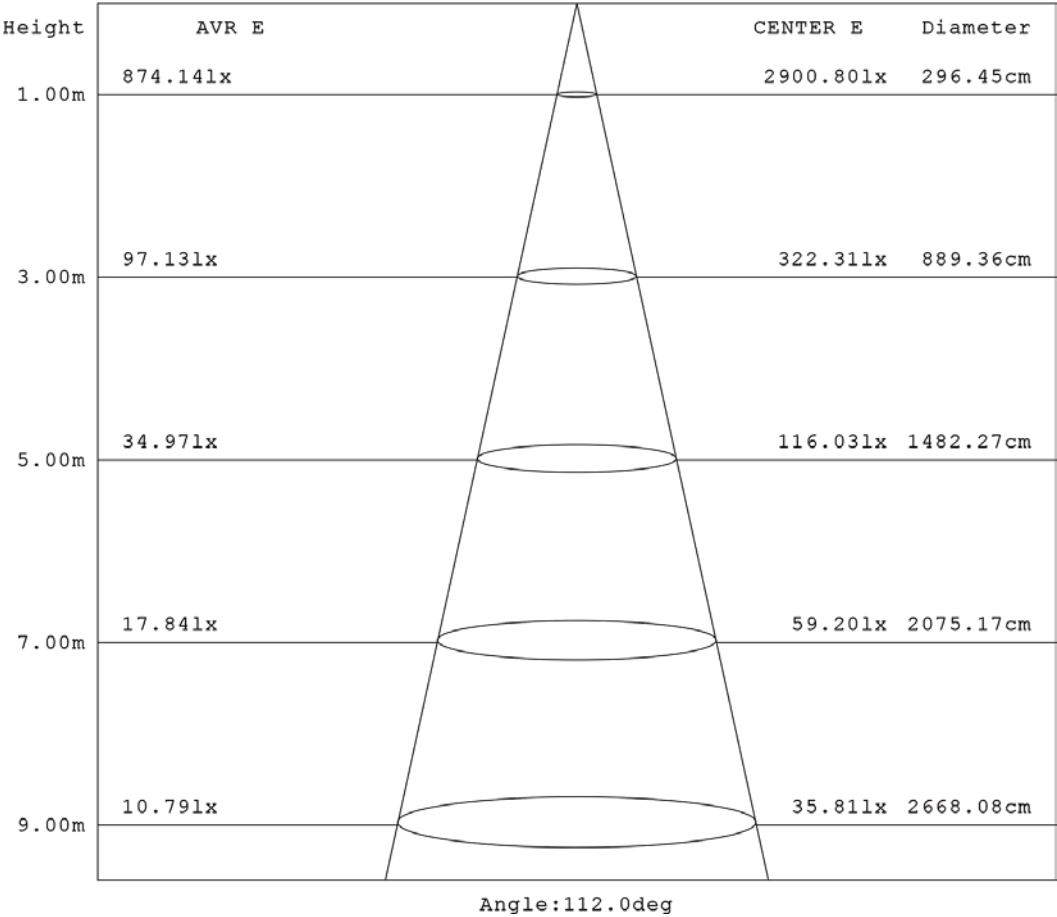
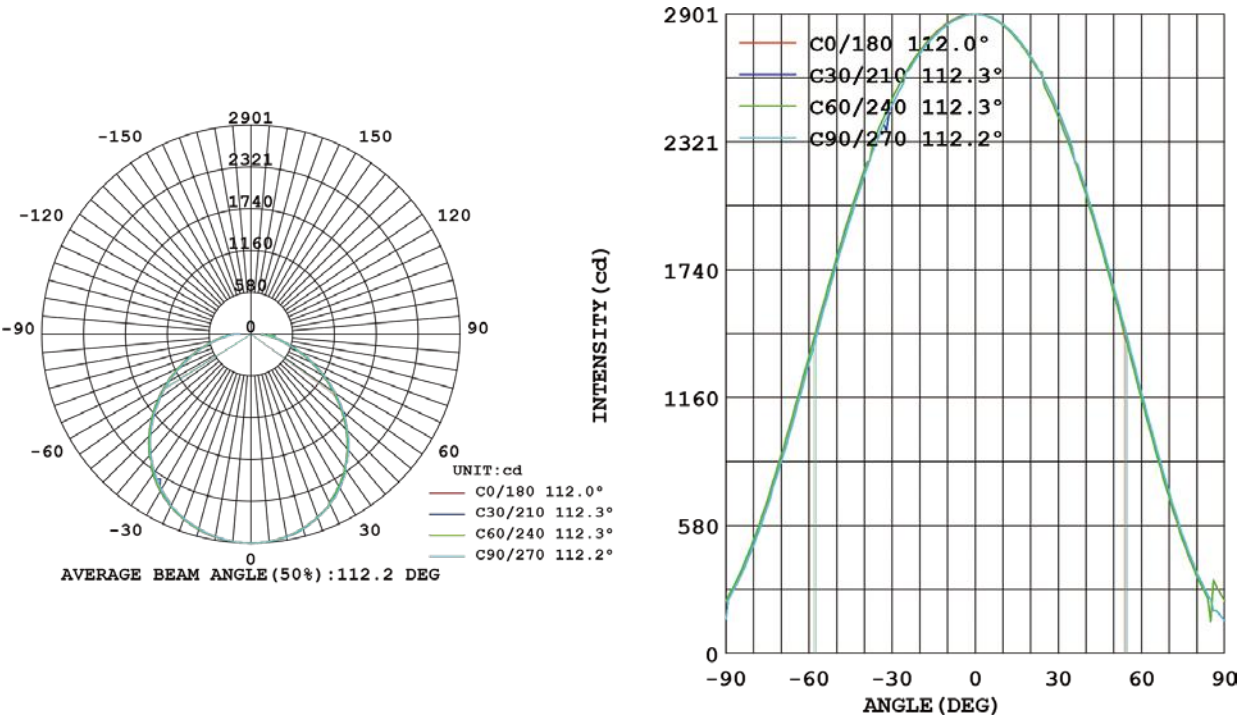
Application

Wastewater treatment, oil and gas refineries, drilling rigs, petrochemical facilities, food and beverage facilities, tunnels, outdoor or indoor mounted general area lighting, and where flammable vapors, gases, ignitable dusts, fibers or flyings are present.

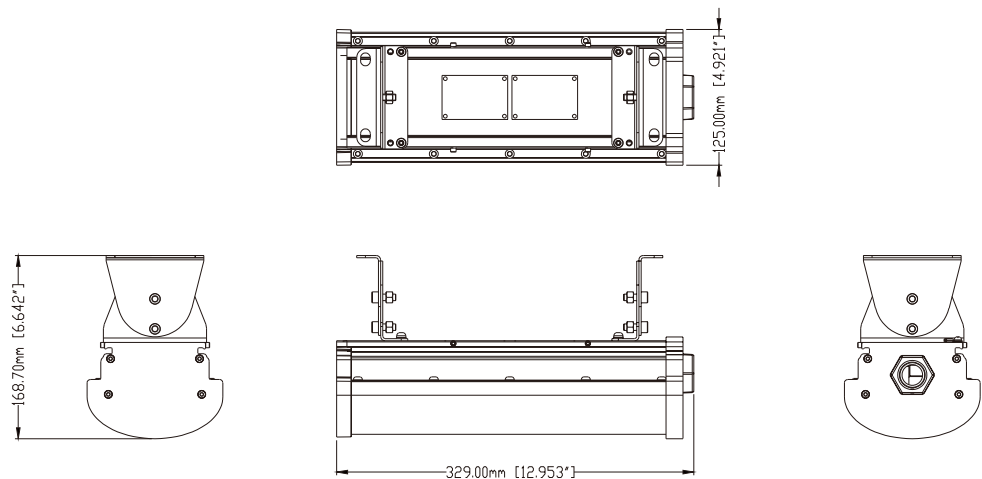
Warranty

5-Year Standard Warranty

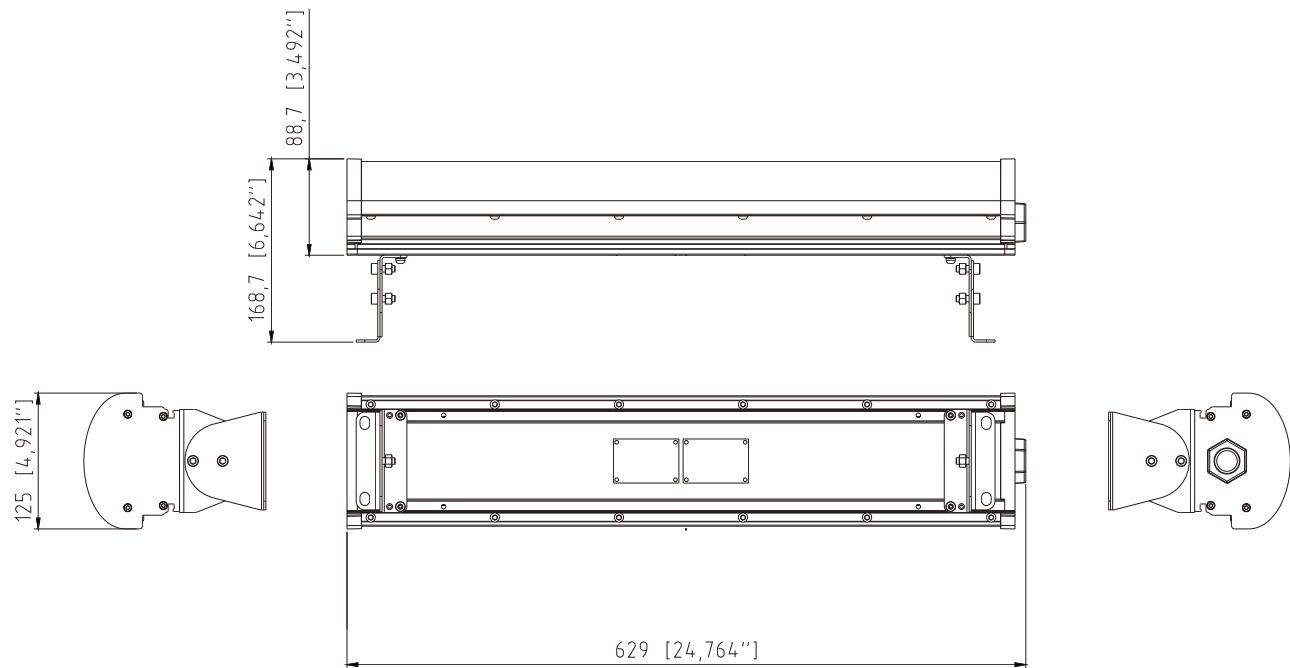
Lighting Distribution



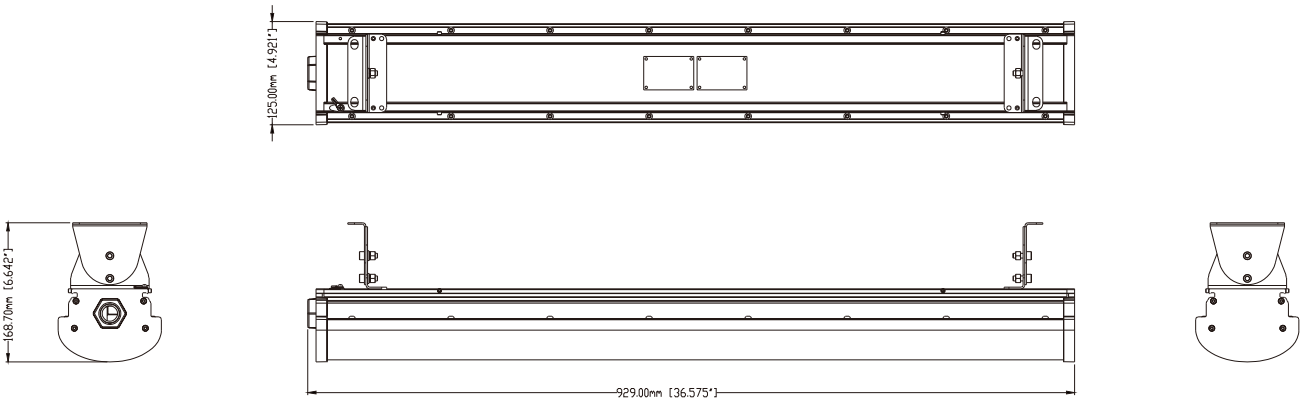
Size and packaging



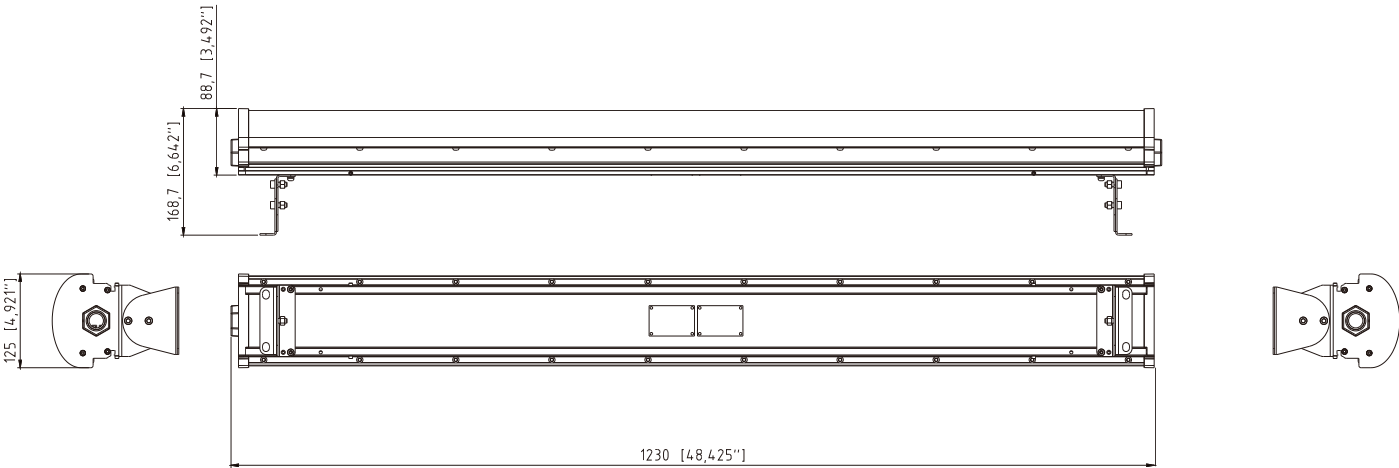
Product Model	Product Size	Carton Size	QTY/CTN	Net Weight	Gross Weight
TPCE-20-30	329mm×125mm×168.7mm	480mm×185mm×145mm	1	—	—
TPCE-30-30	329mm×125mm×168.7mm	480mm×185mm×145mm	1	—	—



Product Model	Product Size	Carton Size	QTY/CTN	Net Weight	Gross Weight
TPCE-20-60	629mm×125mm×168.7mm	780mm×185mm×145mm	1	4.6kg	5.1kg
TPCE-30-60	629mm×125mm×168.7mm	780mm×185mm×145mm	1	4.6kg	5.1kg
TPCE-40-60	629mm×125mm×168.7mm	780mm×185mm×145mm	1	4.6kg	5.1kg
TPCE-50-60	629mm×125mm×168.7mm	780mm×185mm×145mm	1	4.6kg	5.1kg



Product Model	Product Size	Carton Size	QTY/CTN	Net Weight	Gross Weight
TPCE-40-90	929mm×125mm×168.7mm	1080mm×185mm×145mm	1	—	—
TPCE-50-90	929mm×125mm×168.7mm	1080mm×185mm×145mm	1	—	—
TPCE-60-90	929mm×125mm×168.7mm	1080mm×185mm×145mm	1	—	—
TPCE-70-90	929mm×125mm×168.7mm	1080mm×185mm×145mm	1	—	—



Product Model	Product Size	Carton Size	QTY/CTN	Net Weight	Gross Weight
TPCE-40-120	1230mm×125mm×168.7mm	1380mm×185mm×145mm	1	7.7kg	8.5kg
TPCE-50-120	1230mm×125mm×168.7mm	1380mm×185mm×145mm	1	7.7kg	8.5kg
TPCE-60-120	1230mm×125mm×168.7mm	1380mm×185mm×145mm	1	7.7kg	8.5kg
TPCE-70-120	1230mm×125mm×168.7mm	1380mm×185mm×145mm	1	7.7kg	8.5kg
TPCE-80-120	1230mm×125mm×168.7mm	1380mm×185mm×145mm	1	7.7kg	8.5kg
TPCE-100-120	1230mm×125mm×168.7mm	1380mm×185mm×145mm	1	7.7kg	8.5kg

Technical parameter

ProductModel	TPCE 329mm	TPCE 629mm
Type	LED Explosion proof Linear Light	LED Explosion proof Linear Light
luminous efficiency	140lm/W	140lm/W
Power (W)	20W / 30W	20W / 30W / 40W / 50W
Voltage - Frequency	100-277Vac 50-60Hz	100-277Vac 50-60Hz
Color Temp	5000K (Provides 3000K to 6500K)	5000K (Provides 3000K to 6500K)
CRI (Ra) (typ.)	≥70	≥70
Power Supply	High Efficiency LED driver, more than 50000 hours lifespan	High Efficiency LED driver, more than 50000 hours lifespan
Beam Angle	120°	120°
Power Factor	>0.95	>0.95
Rated Lifetime - L70 (hrs.)	>50,000	>50,000
THD	<10%	<10%
Operating temperature	-40 °C ~ 55 °C	-40 °C ~ 55 °C
Entry Size	3/4"-14 NPT or M25 X1.5 or M26 X1.5	3/4"-14 NPT or M25 X1.5 or M26 X1.5
Cable	Three-core rubber cable, IEC (CE) certification, with 0.5m cable (Standard)	Three-core rubber cable, IEC (CE) certification, with 0.5m cable (Standard)

***Emergency optional:** Emergency power: 12W Emergency time: ≥90min Battery: Li-ion battery- 11.1V/2500mAH

ProductModel	TPCE 929 mm	TPCE 1230mm
Type	LED Explosion proof Linear Light	LED Explosion proof Linear Light
luminous efficiency	140lm/W	140lm/W
Power (W)	40W / 50W / 60W / 70W	40W / 50W / 60W / 70W / 80W / 100W
Voltage - Frequency	100-277Vac 50-60Hz	100-277Vac 50-60Hz
Color Temp	5000K (Provides 3000K to 6500K)	5000K (Provides 3000K to 6500K)
CRI (Ra) (typ.)	≥70	≥70
Power Supply	High Efficiency LED driver, more than 50000 hours lifespan	High Efficiency LED driver, more than 50000 hours lifespan
Beam Angle	120°	120°
Power Factor	>0.95	>0.95
Rated Lifetime - L70 (hrs.)	>50,000	>50,000
THD	<10%	<10%
Operating temperature	-40 °C ~ 55 °C	-40 °C ~ 55 °C
Entry Size	3/4"-14 NPT or M25 X1.5 or M26 X1.5	3/4"-14 NPT or M25 X1.5 or M26 X1.5
Cable	Three-core rubber cable, IEC (CE) certification, with 0.5m cable (Standard)	Three-core rubber cable, IEC (CE) certification, with 0.5m cable (Standard)

***Emergency optional:** Emergency power: 12W Emergency time: ≥90min Battery: Li-ion battery- 11.1V/2500mAH

Product display



TPCE 329mm



TPCE 629mm)



TPCE 929mm

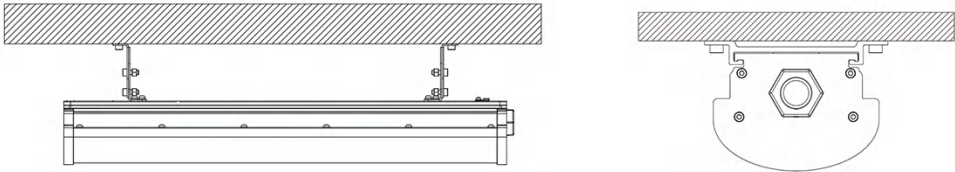


TPCE 1230 mm

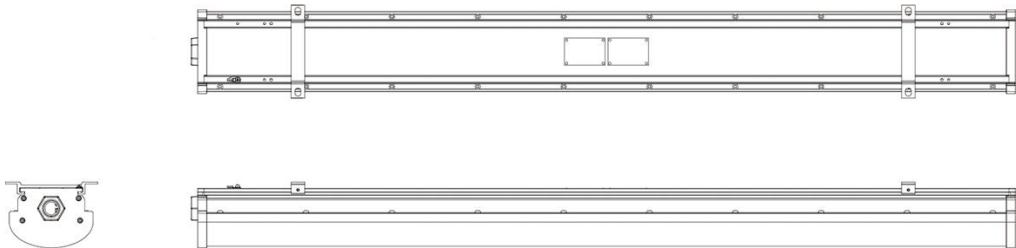
Installation display



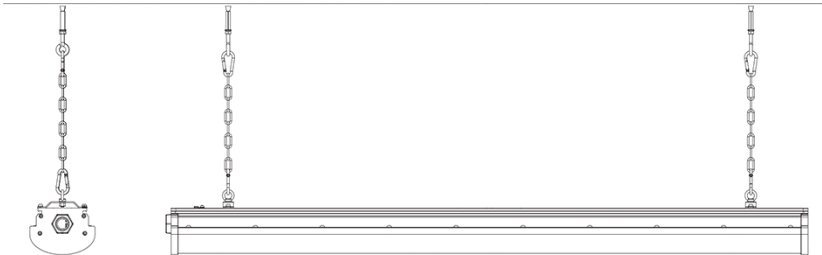
Installation method



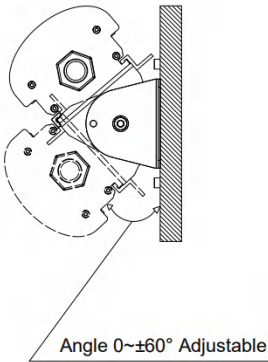
A.Ceiling mounting



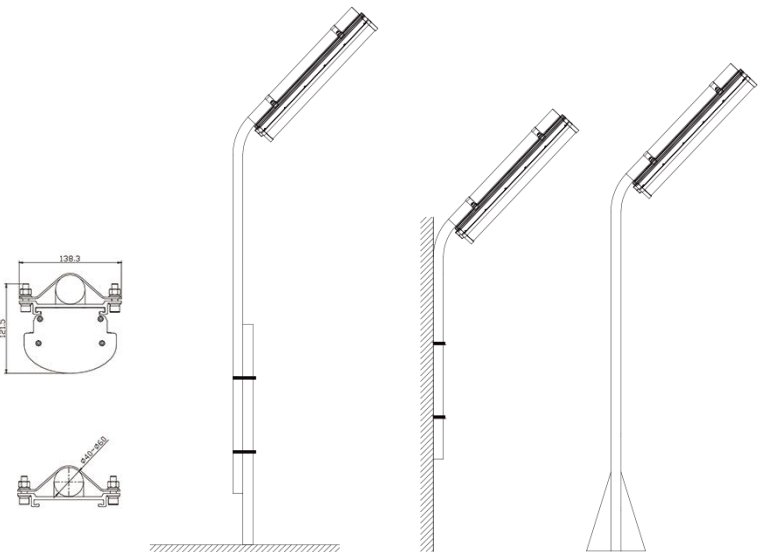
B.Pendant mounting



C.Pendant chain mounting



D.Wall mounting



E.Pole Mounting