Solaris (SLR) Series

Mini Low Bay / Jelly Jar
Class 1 Div 2

Project:	
Type:	
Catalog # :	

FME Lighting | 877 - 234 - 8460 | info@fmelighting.com

HazLoc | IECEx | 5 YEAR | IP66 IK08







SPECIFICATIONS

VOLTAGE	120-277VAC, 18-48VDC, 190-315VDC
WATTAGE	30W, 40W, 50W, 60W & 75W *Power selection DIP switch Only available for 50W and 75W*
COLOR TEMP	2000K / 4000K / 5000K / 6500K (+RGB)
OPERATING TEMP	-40°C to +65°C (EM Version: 0°C to +50°C)
HOUSING	Copper-free aluminum with gray powdercoating
LENS	Flat glass: Tempered glass Curved grille glass: Borosilicate glass
POWER FACTOR	>0.95
THD	<20%
LIGHT SOURCE SDCM	<5
CRI	Standard:Ra70 ; Optional: Ra80
LED LIFESPAN	48,000-L90B50 | 102,300-L80B50 | 164,000-L70B50 *LED @Ta=25°C (hrs)*
DIMMING	1-10V&0-10V (Only for 120-277VAC)
PROTECTION	10kV, IK08 (Flat glass), IP66
WARRANTY	5 Year Limited Warranty | Battery: 3 Years

CERTIFICATIONS

NEC&CEC
- Class I, Division 2
  Groups A, B, C, D
- Class II, Division 2
  Groups F, G
- Class III

IECEx
- Ex nR IIC T6/T5 Gc
- Ex tb IIIC T80/T95°C Db IP66

ATEX
- II 3G Ex nR IIC T6/T5 Gc
- II 2D Ex tb IIIC T80/T95°C Db IP66

- Zone 2
- Zone 21/22
- TYPE 4X IP66

KEY FEATURES

- **Quick Installation:** Hook-integrated cover for easy mounting
- **Compact & Lightweight:** 5.5 kg for easy handling and low shipping costs.
- **Adjustable Output:** 40%/70%/100% dimming reduces SKUs.
- **Great for:** Oil, Gas, Petrochemical, Papermaking, Chemical Plants and more.

EMERGENCY BATTERY

Emergency Battery	Type	Emergency Time	Charge Time
12W	LiFePO4	90 mins	24 hrs
6W	LiFePO4	3 hrs	24 hrs

LUMENS, OPTICS & DIMENSIONS

**See Page 3 for All Photometry Diagrams.*

**See Page 10 for All Dimensions Diagrams.*

ORDERING INFORMATION

ORDERING GUIDE

Series	Wattage	Voltage	CCT	Beam	Dimming	Mounting	Lens	Options
SLR	3 = 30W	LV =120-277VAC	S = 2000K	T5 = TYPE V (no optic)	D = Dimmable	CM = Ceiling mount	CG = Flat clear glass	EM = Emergency Battery
	4 = 40W	DC1 = 18-48VDC	I = 4000K	T1 = T10701(Type I)	ED = Emergency Battery &	PM = Pendant mount	GG = Curved grille glass	AP = Adjustable Power
	5 = 50W	DC2 = 190-315VDC	C = 5000K	T3 = T10703(Type III)	Dimmable	TM = Trunnion mount		CT = Cone Top
	6 = 60W	HV = 277-480VAC	K = 6500K	60 = T10706(60°)		MT = Pendant &Trunnion mount		WG1 = Wire guard for flat glass
	7 = 75W		A = Amber	90 = T10707(90°)		WM = Wall bracket mount		WG2 = Wire guard for curved grille glass
			R = Red			S25 = 25° Stanchion mount		
			G = Green			S30 = 30° Stanchion mount		SC = Safety Cable Kit
			B = Blue			S90 = 90° Stanchion mount		

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GENERAL INFORMATION

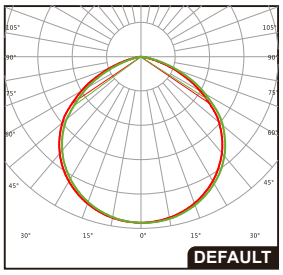
Housing materials	Copper-free (< 0.4%)aluminum
Housing finish	Powder coating
Optic materials	Flat glass:Tempered glass Curved grille glass:Borosilicate glass
Fixture color	Grey
Power selection DIP switch	Only available for 50W and 75W models
Emergency Run Time	12W: 90mins / 6W: 3 hrs
Emergency battery	LiFePO4
Emergency Charge Time	24 hrs
Light source SDCM	<5
Impact resistance	IK08 (Flat glass)
Ingress protection	IP66
Category of corrossion	C4 (ISO 9223:2012)
Control	1-10V&0-10V (Only for 120-277VAC)
Power factor(at full load)	>0.95
THD	<20%
Surge protection	10kV
Color rendering index	Standard:Ra70 ; Optional: Ra80
Color temperature	Standard: 4000K/5000K
Beam angle	T00A11 (120°Curved grille glass) / T00A10 (Type V no optic) / T10701 (Type I 146°x93°)/ T10703 (Type III 134°x74° Tilt46°) / T10706 (60°)/ T10707 (90°)
Cable entry	Ceiling mount / Trunnion mount: 1/2"NPT, 3/4"NPT, M25x1.5,M20x1.5
	Pendant / Pendant & Trunnion mount / Wall bracket mount: 1/2"NPT, 3/4"NPT,1"NPT,M25x1.5,M20x1.5
	25° Stanchion mount / 30° Stanchion mount / 90° Stanchion mount: 1-1/4”NPT , 1-1/2”NPT
Lifespan of LED @Ta=25°C(hrs)	48,000-L90B50
	102,300-L80B50
	164,000-L70B50
Warranty (years)	Standard Warranty: 5 Years Battery: 3 Years

• Standard version without cable gland. If need, please order separately

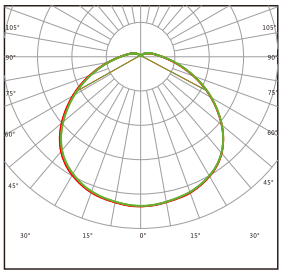
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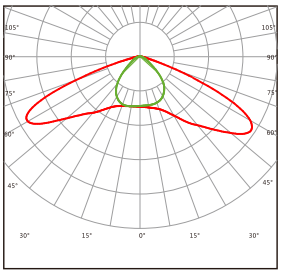
PHOTOMETRY



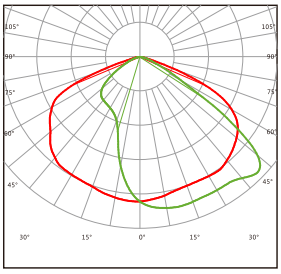
Symmetrical 120°(Flat clear glass)
T00A10 - Standard



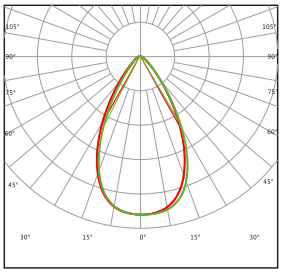
Symmetrical 120°(Curved grille glass)
T00A11 - Standard



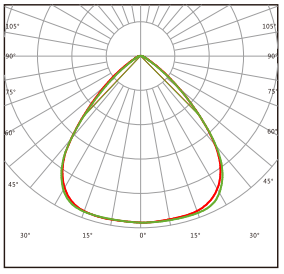
146°×93° Type I T10701
PN: T1



134°×74° Tilt46° Type III T10703
PN: T3



Symmetrical 60° T10706
PN: 60



Symmetrical 90° T10707
PN: 90

LUMENS

Lumen Table (Type V, Flat glass)

Part Number	Input Voltage	Wattage	Lumen (Standard) ±10%	Lumen (High Effiency) ±10%	CCT, CRI	Beam Angle
SLR-3-LV-C-T5-CG-*	100-277VAC	30 W	4500 Lm	4800 Lm	5000K, Ra70	Type V
SLR-4-LV-C-T5-CG-*	100-277VAC	40 W	6000 Lm	6400 Lm	5000K, Ra70	
SLR-5-LV-C-T5-CG-*	100-277VAC	50 W	7500 Lm	8000 Lm	5000K, Ra70	
SLR-6-LV-C-T5-CG-*	100-277VAC	60 W	9000 Lm	9600 Lm	5000K, Ra70	
SLR-7-LV-C-T5-CG-*	100-277VAC	75 W	10500 Lm	12000 Lm	5000K, Ra70	
SLR-5-LV-C-T5-CG-*-AP	100-277VAC	50W power adjustable (20w/35w/50W)	3000/5220/7500Lm	3200/5600/8000Lm	5000K, Ra70	
SLR-7-LV-C-T5-CG-*-AP	100-277VAC	75W power adjustable (30w/53w/75w)	4500/7420/10500Lm	4800/8480/12000Lm	5000K, Ra70	

Lumen Table (Type I/Type III, Flat glass)

Part Number	Input Voltage	Wattage	Lumen ±10%	CCT, CRI	Beam Angle
SLR-3-LV-C-T1-CG-*	100-277VAC	30 W	4500 Lm	5000K, Ra70	Type I
SLR-3-LV-C-T3-CG-*	100-277VAC		4200 Lm	5000K, Ra70	Type III
SLR-4-LV-C-T1-CG-*	100-277VAC	40 W	5600 Lm	5000K, Ra70	Type I
SLR-4-LV-C-T3-CG-*	100-277VAC		5600 Lm	5000K, Ra70	Type III
SLR-5-LV-C-T1-CG-*	100-277VAC	50 W	7000 Lm	5000K, Ra70	Type I
SLR-5-LV-C-T3-CG-*	100-277VAC		7000 Lm	5000K, Ra70	Type III
SLR-6-LV-C-T1-CG-*	100-277VAC	60 W	8400 Lm	5000K, Ra70	Type I
SLR-6-LV-C-T3-CG-*	100-277VAC		8400 Lm	5000K, Ra70	Type III
SLR-7-LV-C-T1-CG-*	100-277VAC	75 W	9750 Lm	5000K, Ra70	Type I
SLR-7-LV-C-T3-CG-*	100-277VAC		9750 Lm	5000K, Ra70	Type III
SLR-5-LV-C-T1-CG-*-AP	100-277VAC	50W power adjustable (20w/35w/50W)	3000/4900/7000Lm	5000K, Ra70	Type I
SLR-5-LV-C-T3-CG-*-AP	100-277VAC		2800/4900/7000Lm	5000K, Ra70	Type III
SLR-7-LV-C-T1-CG-*-AP	100-277VAC	75W power adjustable (30w/53w/75w)	4500/7420/9750Lm	5000K, Ra70	Type I
SLR-7-LV-C-T3-CG-*-AP	100-277VAC		4200/7420/9750Lm	5000K, Ra70	Type III

"*" in part number meansthe mounting options

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FME Lighting | ILLUMINATING INDUSTRIAL APPLICATIONS

Lumen Table (60°/90°, Flat glass)

Part Number	Input Voltage	Wattage	Lumen ±10%	CCT, CRI	Beam Angle
SLR-3-LV-C-60-CG-*	100-277VAC	30 W	4800 Lm	5000K, Ra70	60°
SLR-3-LV-C-90-CG-*	100-277VAC		4800 Lm	5000K, Ra70	90°
SLR-4-LV-C-60-CG-*	100-277VAC	40 W	6400 Lm	5000K, Ra70	60°
SLR-4-LV-C-90-CG-*	100-277VAC		6400 Lm	5000K, Ra70	90°
SLR-5-LV-C-60-CG-*	100-277VAC	50 W	7500 Lm	5000K, Ra70	60°
SLR-5-LV-C-90-CG-*	100-277VAC		7500 Lm	5000K, Ra70	90°
SLR-6-LV-C-60-CG-*	100-277VAC	60 W	9000 Lm	5000K, Ra70	60°
SLR-6-LV-C-90-CG-*	100-277VAC		9000 Lm	5000K, Ra70	90°
SLR-7-LV-C-60-CG-*	100-277VAC	75 W	10500 Lm	5000K, Ra70	60°
SLR-7-LV-C-90-CG-*	100-277VAC		11250 Lm	5000K, Ra70	90°
SLR-5-LV-C-60-CG-*-AP	100-277VAC	50W power adjustable (20w/35w/50W)	3200/5600/7500Lm	5000K, Ra70	60°
SLR-5-LV-C-90-CG-*-AP	100-277VAC		3200/5600/7500Lm	5000K, Ra70	90°
SLR-7-LV-C-60-CG-*-AP	100-277VAC	75W power adjustable (30w/53w/75w)	4500/7950/10500Lm	5000K, Ra70	60°
SLR-7-LV-C-90-CG-*-AP	100-277VAC		4800/7950/11250Lm	5000K, Ra70	90°

Lumen Table (Curved grille glass+Wire guard)

Part Number	Input Voltage	Wattage	Lumen (Standard) ±10%	Lumen (High Effiency) ±10%	CCT, CRI	Beam Angle
SLR-3-LV-C-T5-GG-*-WG	100-277VAC	30 W	3300 Lm	3600 Lm	5000K, Ra70	128°
SLR-4-LV-C-T5-GG-*-WG	100-277VAC	40 W	4400 Lm	4800 Lm	5000K, Ra70	128°
SLR-5-LV-C-T5-GG-*-WG	100-277VAC	50 W	5500 Lm	6000 Lm	5000K, Ra70	128°
SLR-6-LV-C-T5-GG-*-WG	100-277VAC	60 W	6600 Lm	7200 Lm	5000K, Ra70	128°
SLR-7-LV-C-T5-GG-*-WG	100-277VAC	75 W	7500 Lm	8250 Lm	5000K, Ra70	128°
SLR-5-LV-C-T5-GG-*-WG-AP	100-277VAC	50W power adjustable (20w/35w/50W)	2200/3850/5500Lm	2400/4200/6000Lm	5000K, Ra70	128°
SLR-7-LV-C-T5-GG-*-WG-AP	100-277VAC	75W power adjustable (30w/53w/75w)	3300/5830/7500Lm	3600/6360/8250Lm	5000K, Ra70	128°

"*" in part number means the mounting options

ACCESSORIES (ORDERED SEPARATELY)

Picture	Model	Description	Picture	Model	Description
	SLR-WG1	Wire guard flat glass		SLR-CT	Cone top for dustproof
	SLR-WG2	Wire guard curved grille glass		SLR-SC	Safety Cable Kit

Accessories	Cone top	Wire guard (suitable for flat glass)	Wire guard (suitable for curved glass)	Safety cable
Product weight(kg) ±6%	0.21	0.09	0.17	0.07
Quantity in one Carton	8	80	20	100
Carton Size (cm)	53x53x29.5	45x42x46.5	45x43x27	31.5x31.5x24
Package weight(kg) ±6%	5.264	10.73	5.425	9.518

TEMPERATURE CLASS AND WORKING TEMPERATURE

Single Power Version

Product model	Input voltage	Rated power	Working temperature	Temperature class	Maximum surface temperature
				Gas("nR")	Dust("tb")
SLR-3 series	U: 120-277VAC D: 18-48Vdc D2: 190-315Vdc	30W	-40°C to +65°C	T5	95°C
SLR-4 series		40W			
SLR-5 series		50W			
SLR-6 series		60W	-40°C to +60°C		
SLR-7 series		75W			

Single Power + Emergency Version

Product model	Input voltage	Rated power	Working temperature	Temperature class	Maximum surface temperature
				Gas("nR")	Dust("tb")
SLR-3 EM series	120-277VAC	30W	0°C to +50°C	T6	80°C
SLR-4 EM series		40W			
SLR-5 EM series		50W			
SLR-6 EM series		60W		T5	95°C
SLR-7 EM series		75W			

Power Adjustable Version

Product model	Input voltage	Rated power	Working temperature	Temperature class	Maximum surface temperature
				Gas("nR")	Dust("tb")
SLR-5 AP series	120-277VAC	20W/35W/50W	-40°C to +65°C	T6	80°C
SLR-7 AP series		30W/53W			
		75W	-40°C to +60°C		

Power Adjustable + Emergency Version

Product model	Input voltage	Rated power	Working temperature	Temperature class	Maximum surface temperature
				Gas("nR")	Dust("tb")
SLR-5 AP EM series	120-277VAC	20W/35W/50W	0°C to +50°C	T6	80°C
SLR-7 AP EM series		30W/53W			
		75W		T5	95°C

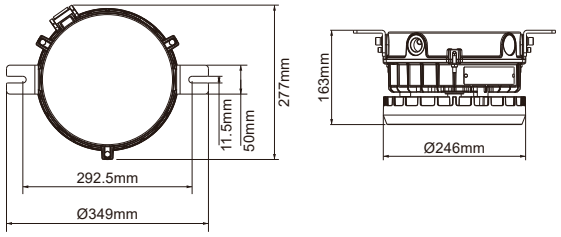
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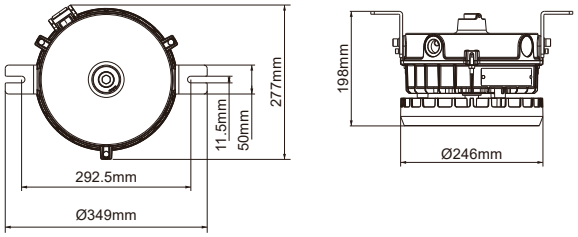
DIMENSIONS - FLAT CLEAR GLASS

Unit: mm

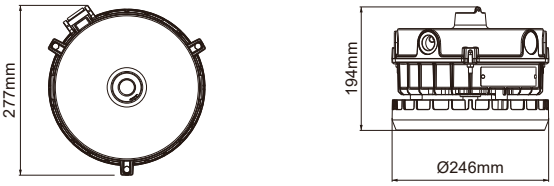
Ceiling Mount



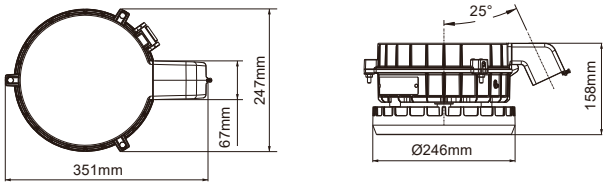
Ceiling & Pendant Mount



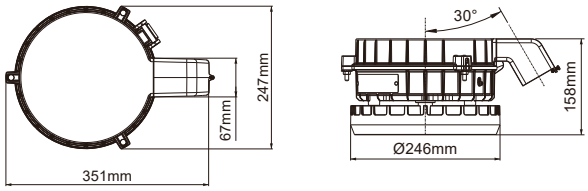
Pendant Mount



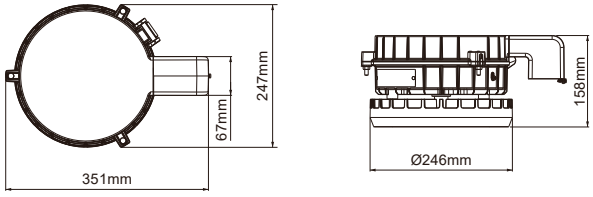
25°Stanchion Mount



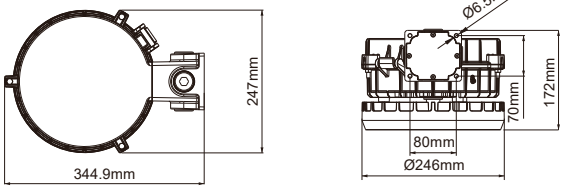
30°Stanchion Mount



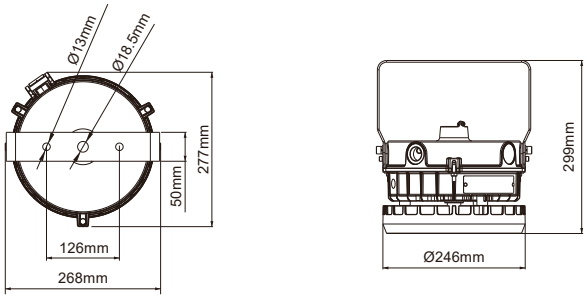
90°Stanchion Mount



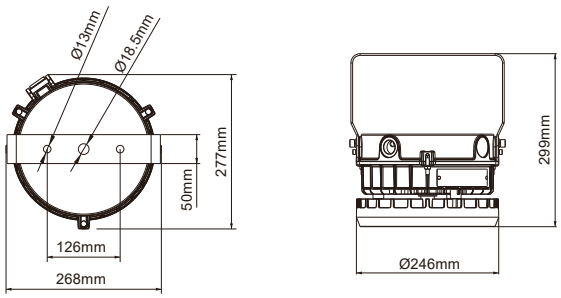
Wall Bracket Mount



Pendant & Trunnion Mount



Trunnion Mount



Flat glass

	N.W(kg)/PC	G.W(kg)/PC
Ceiling mount	4.2	5.1
Ceiling & Pendant mount		
Pendant mount	3.9	4.6
Trunnion mount	4.4	5.3
Pendant & Trunnion mount		
Wall Bracket mount		
25°Stanchion mount	4	4.8
30°/90°Stanchion mount	4.1	4.9

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Specifications and dimensions subject to change without notice.

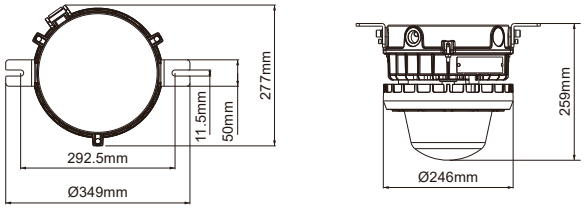
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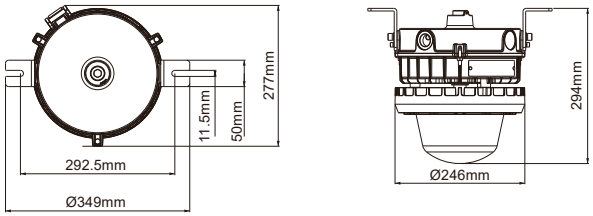
DIMENSIONS - CURVED GRILLE GLASS

Unit: mm

Ceiling Mount



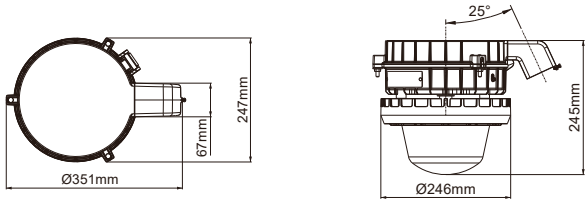
Ceiling & Pendant Mount



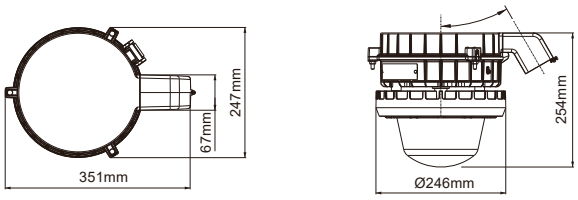
Pendant Mount



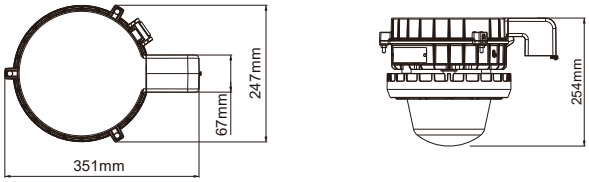
25°Stanchion Mount



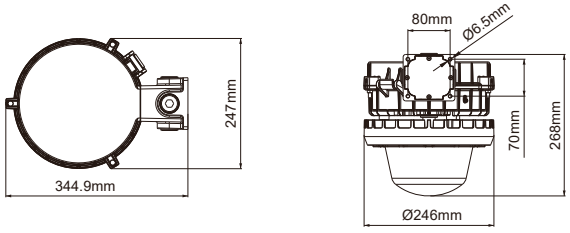
30°Stanchion Mount



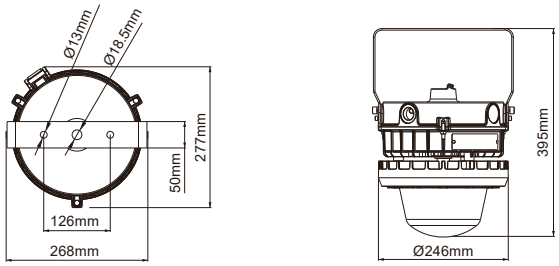
90°Stanchion Mount



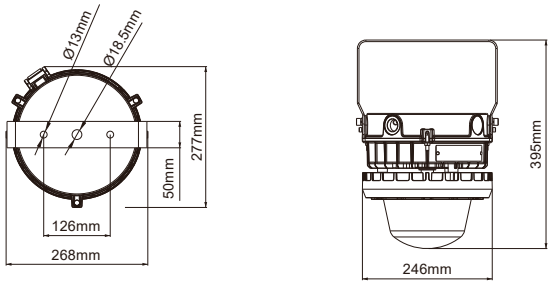
Wall Bracket Mount



Pendant & Trunnion Mount



Trunnion Mount



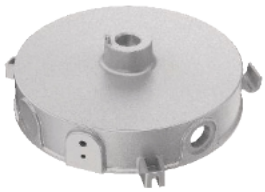
Curved grille glass

	N.W(kg)/PC	G.W(kg)/PC
Ceiling mount	5.4	6.5
Ceiling & Pendant mount		
Pendant mount	5.1	6.2
Trunnion mount	5.6	6.7
Pendant & Trunnion mount		
Wall Bracket mount		
25°Stanchion mount	5.3	6.1
30°/90°Stanchion mount	5.4	6.2

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Specifications and dimensions subject to change without notice.

SLR MOUNTING OPTIONS OVERVIEW



Cover A



Cover B



Cover C



Cover A



Cover B



Trunnion bracket



Ceiling bracket



Cone top



Ceiling Bracket



Trunnion bracket



Trunnion mount



Ceiling mount



Pendant mount with cone top



Ceiling Bracket



Trunnion bracket











Solaris (SLR) Series

Mini Low Bay / Jelly Jar
Class 1 Div 2



Cover C



Wall mount kit



25° Stanchion mount kit



30° Stanchion mount kit



90° Stanchion mount kit



Wall bracket mount



25° Stanchion mount



30° Stanchion mount



90° Stanchion mount









MOUNTING OPTIONS



Ceiling mount



Ceiling & Pendant mount



Pendant mount



Trunnion mount



Pendant & Trunnion mount



Wall Bracket mount



25° Stanchion mount



30° Stanchion mount



90° Stanchion mount