DARK SPACE

Landscape Lighting Catalogue

www.DarkSpace.in

BOLT
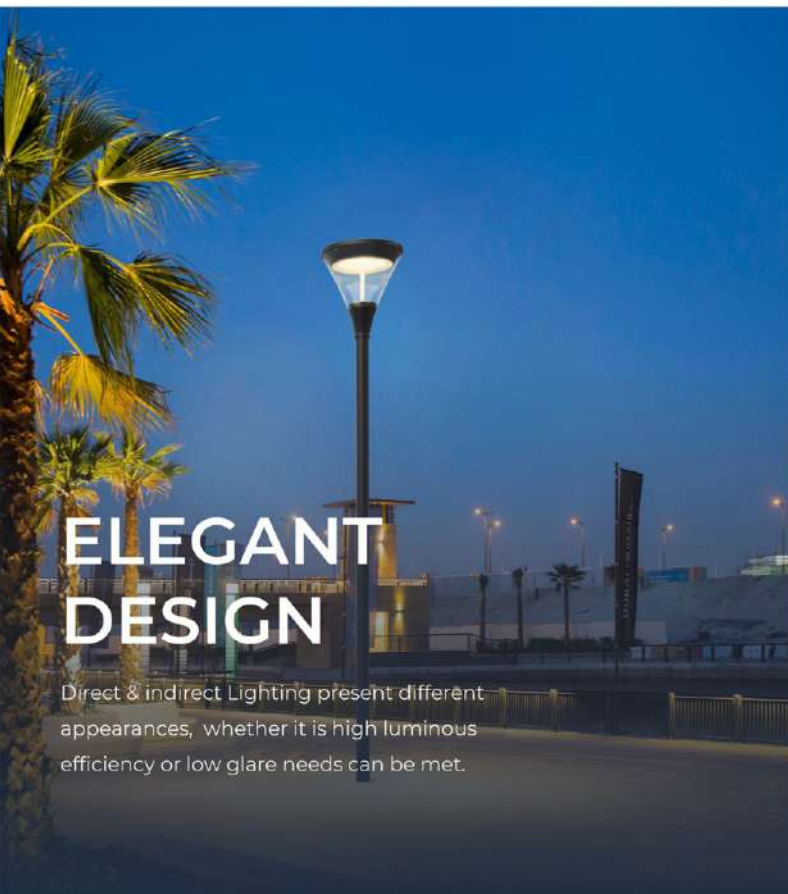
ELEGANT DESIGN

Direct & indirect Lighting present different appearances, whether it is high luminous efficiency or low glare needs can be met.
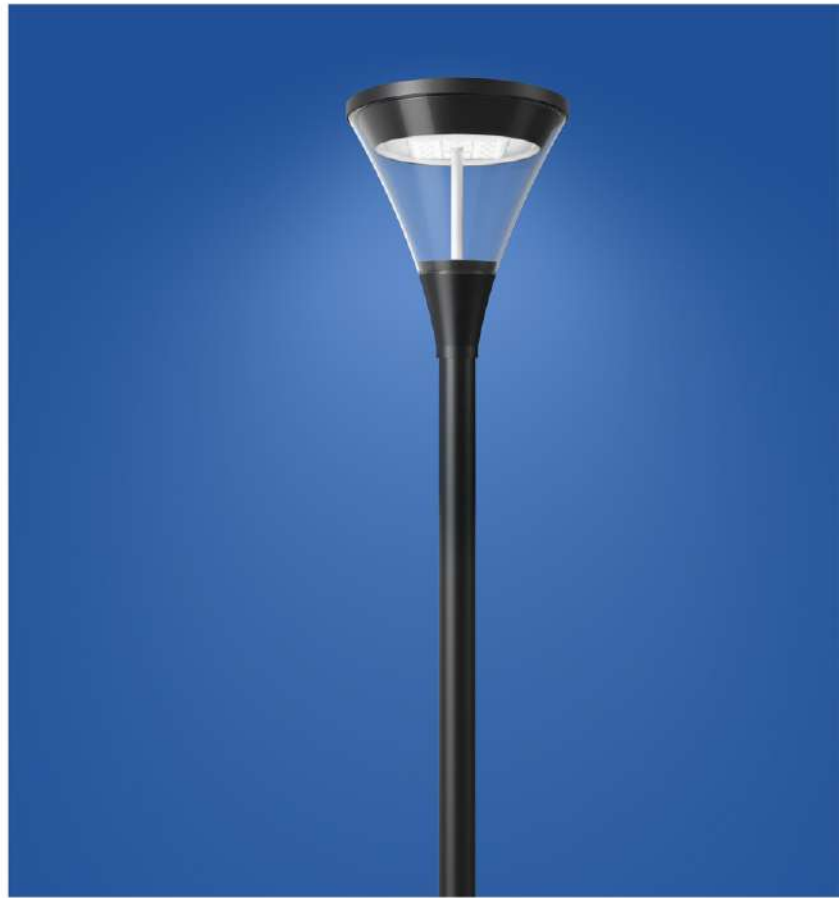
High Luminous Efficiency Version

LOW UGR Version

Perfect
Combination of
# **Aethelitics & Technology**

TO THE URBAN SPACE

Baldr follows the trend of urban differentiation with smooth curvature, creates a tidy impression, and provides excellent heat dissipation. Clear and full rounded PC cover helps to elimate blind spots caused by lamp arms, bring safety and attractiveness to the urban space. Its rich and various control options bring the lastest in intelligence
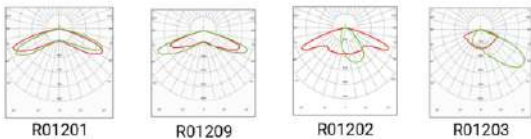
BUILT-IN MOTION SENSOR

The Built-in Motion Sensor does not compromise its elegant appearance, save energy bills by adjusting the lumen output when movement detected.

8-12M

Height of installation 8-12M
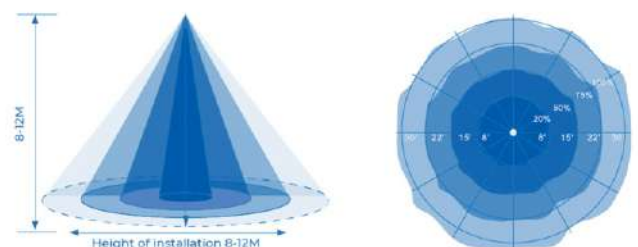
High Luminous Efficiency Version

Lights spread out directly from the top of luminaire, through the transparent PC cover without blocking, make full use of the light output, system efficacy up to **140LM/W**.
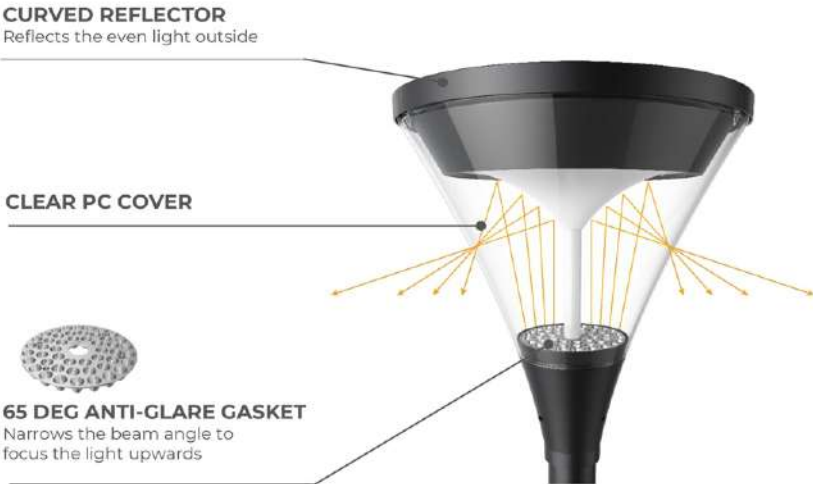

R01201   R01209   R01202   R01203

ANTI-GLARE optic is coming soon

FLAT SURFACE
Easy to clean in rainy days

OPTICAL ENGINE
Maximize lighting output up to 140LM/W

ANTI-GLARE GASKET
(Optional)
Avoids obtrusive light and increase visual comfort

CLEAR PC COVER
Eliminates blind spots and projections

LOW UGR Version

The light source, LED, is placed at the bottom of the luminaire, and the indirect light, reflected by the curved reflector on the roof, is soft and visual comfort.
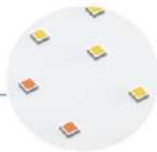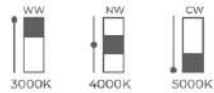
CURVED REFLECTOR
Reflects the even light outside

CLEAR PC COVER

65 DEG ANTI-GLARE GASKET
Narrows the beam angle to focus the light upwards

CCT ADJUSTABLE
Light up different urban spaces

Built-in DIP Switch
Built-in parts, does not affect the appearance

WW	NW	CW
3000K	4000K	5000K

How is it possible ?

With PCBA's using two types of LEDs (e.g. 3000K and 5000K), you can select one of the two color temperatures or mix both to create 4000K. As lenses cover the complete PCBA, the light distribution remains unchanged whatever you select.

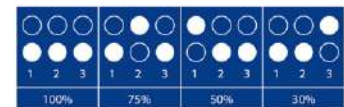3000 K   4000 K   5000 K

| 3000K   Private garden

| 4000K   City Park

| 5000K   Streetscape

5m

4m

3m

100%	75%	50%	30%

LUMEN ADJUSTABLE
Power on different heights

With Built-in DIP switch, you can adjustable lumen output from 100% to 75% / 50% / 30%. to adapt different heights of pole, maximize project flexible but reduce SKU as less as possible
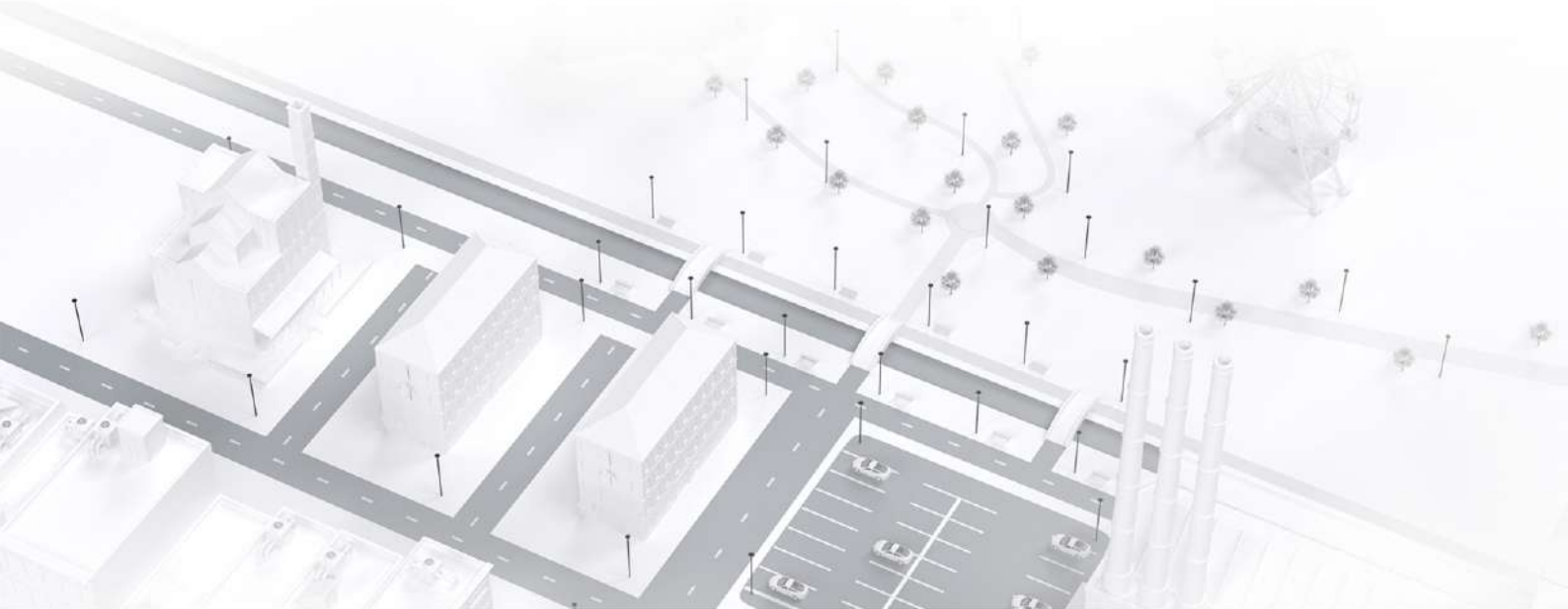
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MORE INTELLIGENT CONTROLS
Offers a tailored energy efficient output

NEMA — ON/OFF Photocell, available in 3-PIN, 5-PIN, 7-PIN conectivity solutions

ZD4 — ZHAGA D4i socket, universal interface for flexible intelligent solutions

Specifications

Model No.	High Luminous Efficiency Version			LOW UGR Version	
	PST02-020	PST02-040	PST02-040	PST02-020A	PST02-040A
Power Consumption	20W	40W	60W	20W	40W
Luminous Flux (±5%)	2800lm	5600lm	8400lm	1800lm	3600lm
Efficacy	140LM/W			90LM/W	
Beam angle	Type II(R202), Type III (R203), Type V (R201, R209)			RC52(Type V)	
CCT/CRI	4000K (3000K, 5000K Optional) /Ra70(Ra80)Optional				
Input Voltage	100-240 VAC , 50 / 60 Hz				
Fixture Color	Black (RAL9017)				
IK & IP Rating	IK09, IP66				
Control	Dimmable and Non-dimmable, DALI, Microwave Motion Sensor, Zhaga Wireless Control, Photocell Control				
Product Dimension	φ371*420mm / 4.6±0.3KG				
Operating Temp.	-30° C ~ +50° C				

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CE RoHS CB

Description

ST52 LED post top brings architectural style to area and site and pedestrian scale applications, the design brings a desired organic look into the urban environment. professional optic provide an excellent effect, managing glare while providing high levels of visibility.

Key Features

- LED post top light/garden light
- Contemporary, architectural design, elegant appearance.
- Black (RAL9017)
- 100-240V 50/60Hz
- Professional optic provide an excellent effect, managing glare while provides high level of visibility.
- IK09, IP66 rated
- Φ60mm post top mount available
- Area, site and pedestrian scale applications

Applications

- Residential area
- Private garden/ parks
- River bank
- Public square
- Walkway / pathway

Electrical Information

Model No.	PST02-020	PST02-040	PST02-040	PST02-020A	PST02-040A
Power Consumption(±5%)	20W	40W	60W	20W	40W
Luminescent mode	Direct lighting			Indirect lighting	
Power Supply	MOSO/SOSEN				
Input Voltage	100-240 VAC , 50 / 60 Hz				
Power Factor	>0.92				
Surge Protection	4kV line-line, 6kV line-earth				
Driver Type	Constant Current (CC)				
Control	Dimmable and Non-dimmable, DALI, Microwave sensor				
	Zhaga,Photocell control				

Optic Information

LED Type	LED 3030				
Luminous Flux (±10%)	2400lm/2700lm	4800lm/5400lm	7200lm/8100lm	1800lm	3600lm
Efficacy(4000K Ra70)	120lm/W (milky PC cover) 135lm/W (Clear optic lens)			90lm/W	
Correlated Color Temperature	4000K (3000K,5000K optional)				
Color Rendering Index	Ra70 (Ra80 optional)				
Beam Angle	R201, R202, R203, R204, R205, R207, R208, R209,R211,RC53			RC52	
UGR level	NA				

Dimentions and Mount

Product Dimension	Φ371*420mm
Luminaire Net Weight	4.6±0.3kg
Export Carton Size	450x450x535mm
Gross Weight	6.1±0.3kg
Mounting Option	Post top
Material	Aluminum alloy
	Polycarbonate optical lens
Finish	Powder coating
Fixture Color	Black (RAL9017)
EPA	0.98ft²/0.09m²
IK Rating	IK09
IP Rating	IP66
Category of corrosion	C4-M

Lifespan and Warranty

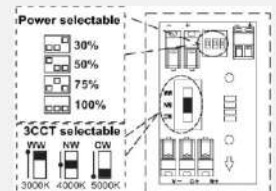|	
Operating Temperature	-30°C to + 50°C
Life Time of LED @Ta=25°C	54000hrs-L90
	82000hrs-L80
	131000hrs-L70
Warranty	5 Years

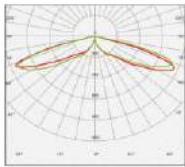### New Features

3 CCT Available

Power Selectable, available for 30%, 50%, 75% and 100%.

The CCT could be set to Cool White, Natural White and Warm White.
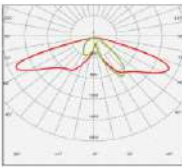
Please select a suitable Power and CCT by the swich.
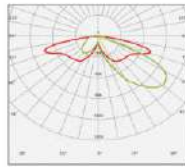
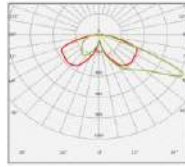* Please consult us for details.

Photometry

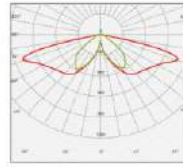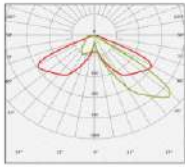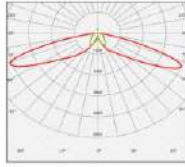|				
R201	R202	R203	R204	R205
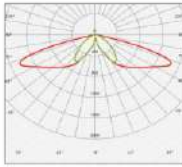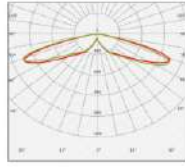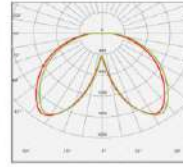
R207	R208	R209	R211	RC53 (Milky PC cover)
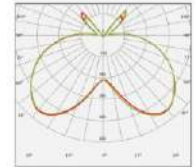
RC52

Direct Lighting

Indirect Lighting

Mounting Options

Post Top Mounting

Dimensions

Ø371mm (14.6")

Ø63mm (2.36")

420mm (16.53")

Ø371mm (14.6")

Ø63mm (2.36")

487mm (19.17")
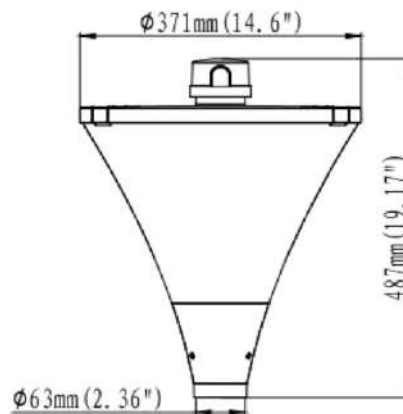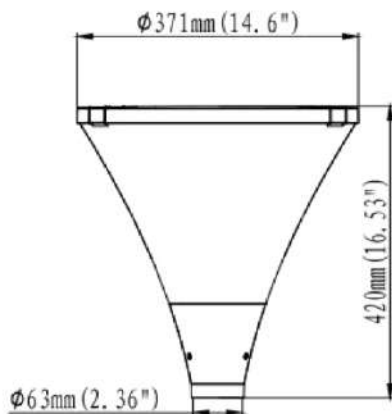
Unit: mm

Accessories

NEMA Socket
ANSI C136.41-2013 dimming
receptacles
Code: NS-A00-02(3 Pin)
Code: NS-A00-03(5Pin)
Code: NS-A00-04(7 Pin)

Photocell Controller
ANSI C136.10-1996 twistlock for On-
Off function only

Code: PS-A00-01

Shorting Cap
PC materials , UL773 standard

Code: NA-A00-01

Built-in Motion Sensor
12-24V DC input, must be equip along
with an additional auxiliary adaptor
MSPU-12V.
Mounting height :12M
Code: ANT-9(microwave sensor)

ZHAGA Receptacles
Compliant with zhaga book 18.

Code: ZG-A00-01

The remote control
For motion sensor ANT-9
Code: RC-100

PC Diffusion cover
Material :PC
Code: R00C53

Wall mount adaptor
Material :SPCC materials with hot dip
galvanizing.
Code: SP-R52-01

DARK SPACE

iF DESIGN AWARD 2020

CE CB RoHS emc SAA

Description

The aesthetics of the city is inseparable from lighting, Lotus satisfied the trend of urban differentiation with smooth curvature, which effectively prevents the accumulation of dust and leaves, not only creates a neat atmosphere, but also provides excellent heat dissipation. In general, the traditional industrial lighting design is not obvious enough, in contrast, the design of lotus is inspired by the Pine Greeting Guests, and through continuous optimization, the overall display is more modern.

Key Features

• LED Post Top Light / Garden Light
• Contemporary, architectural design, elegant appearance.
• Smooth housing without any screws exposed.
• Lumen Packages ranging from 4800 - 12000lm
• 100-277V 50/60Hz, 277-480V Available
• Professional optic provide an excellent effect, managing glare while providing high Levels of visibility.
• IK08, IP66 Rated
• φ60mm & φ76mm mount available
• Area, site and pedestrian scale applications

Applications

• courtyard
• Private and Public garden
• community

Electrical Information

Model No.	PST03-040	PST03-060	PST03-075	PST03-100
Power Consumption(±5%)	40W (±10%)	60W	75W	100W
Power Supply	Sosen			
Input Voltage	100-240VAC /100-277VAC,50 / 60 Hz			
Power Factor	≥0.9 at Max Load			
Surge Protection	6KV line-line , 10KV line-earth			
Driver Type	Constant Current (CC)			
Control	1-10V/DALI			

Optic Information

LED Type	LED 3030			
Luminous Flux (±10%)	4800LM	7200LM	9000LM	12000LM
Efficacy(4000K Ra70)	120LM/W			
Correlated Color Temperature	4000K (5000K optional)			
Color Rendering Index	Ra70 (Ra80 optional)			
Beam Angle	R201, R203, R204, R205, R207, R208, R209			
UGR level	NA			

Dimentions and Mount

Product Dimension	450x450x526mm			
Luminaire Net Weight	7.58±0.2kg	7.88±0.2kg	7.94±0.2kg	7.97±0.2kg
Export Carton Size	530x530x245mm			
Gross Weight	9.14±0.2kg	9.44±0.2kg	9.50±0.2kg	9.53±0.2kg
Mounting Option	Post top φ60mm/φ76mm			
Material	Die Casting Aluminum			
	Tempered Glass and Polycarbonate Optical Lens			
Finish	Powder Coating			
Fixture Color	Black			
EPA	5.56ft²			
IK Rating	IK08			
IP Rating	IP66			
Category of corrosion	C4-M			

Lifespan and Warranty

Operating Temperature	-30°C to + 50°C
	60000hrs L90
Life Time of LED @Ta=25°C	80000hrs L80
	100000hrs L70
Warranty	5 Years

New Features

Please consult us for details.

Photometry

R201	R203	R204	R205	R207	R208	R209

Mounting Options

M4
1.2Nm

L — brown | black
N — blue | white
⏚ — yellow/green | green

⚡ Caution. risk of electric shock

M8
8 Nm

Dimensions

Unit:mm

Φ17. 72" (Φ450mm)

20.71"(526mm)

13. 39" (340mm)

3. 5" (89mm)

Φ2. 36" (Φ60mm) /
Φ2. 99" (Φ76mm)

Φ2. 47" (Φ62. 8mm)

Φ2. 36" (Φ60mm)

Φ3. 10" (Φ78. 8mm)

Φ2. 99" (Φ76mm)

Accessories

Post top mount adaptor
Q235 materials with Powder Coating.
Code: SP-R03-16 (60 to 76mm Dia)

Wall mount adaptor
Material :SPCC materials with hot dip galvanizing.
Code: SP-R52-01

D RK SPACE

CE RoHS CB ⟪K⟫ emc

Electrical Information

Model No.	ST04-040	ST04-060	ST04-075	ST04-100
Power Consumption(±5%)	40W	60W	75W	100W
Power Supply	SOSEN			
Input Voltage	100-240 VAC , 50 / 60 Hz			
Power Factor	>0.92			
Surge Protection	6kV line-line, 10kV line-earth			
Driver Type	Constant Current (CC)			
Control	Dimmable and Non-dimmable, DALI, Microwave Sensor, PIR Sensor zhaga Wireless Control, Photocell Control			

Optic Information

LED Type	LED 3030			
Luminous Flux (±10%)	5200LM	7800LM	9750LM	13000LM
Efficacy(4000K Ra70)	130lm/W			
Correlated Color Temperature	4000K (3000K,5000K optional)			
Color Rendering Index	Ra70 (Ra80 optional)			
Beam Angle	R201, R203, R204, R205, R207, R208, R209			
UGR level	NA			

Dimentions and Mount

Product Dimension	φ476*410mm		
Luminaire Net Weight	7.1±0.3kg	7.4±0.3kg	7.5±0.3kg
Export Carton Size	650*570*135mm		
Gross Weight	8.9±0.3kg	9.2±0.3kg	9.3±0.3kg
Mounting Option	Post Top		
Material	Aluminum Alloy Tempered Glass and Polycarbonate Optical Lens		
Finish	Powder Coating		
Fixture Color	Silvery black RAL9005		
EPA	1.63ft²		
IK Rating	IK08		
IP Rating	IP66		
Category of corrosion	C4-M		

Lifespan and Warranty

Operating Temperature	-30°C to + 50°C
Life Time of LED @Ta=25°C	54000hrs-L90 100000hrs-L80 100000hrs-L70
Warranty	5 Years

Description

ST38 LED Post top brings architectural style to area and site and pedestrian scale applications, the design brings a desired organic look into the urban environment. professional optic provide an excellent effect, managing glare while providing high levels of visibility.

Key Features

•LED Post Top Light / Garden Light
•Contemporary, architectural design, elegant appearance.
•Smooth housing without any screws exposed.
•100-240V 50/60Hz
•Professional optic provide an excellent effect, managing glare while provides high level of visibility.
•IK08, IP66 Rated
•φ60mm post top mount available
• Area, site and pedestrian scale applications

Applications

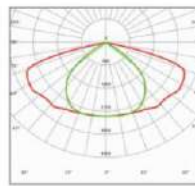• Residential Area
• Private Garden/ Parks
• River Bank
• Public square
• Walkway / Path way

New Features

* Please consult us for details.

Photometry

R201	R203	R204	R205	R207	R208

R209

Mounting Options

Post Top

Dimensions

Normal Version
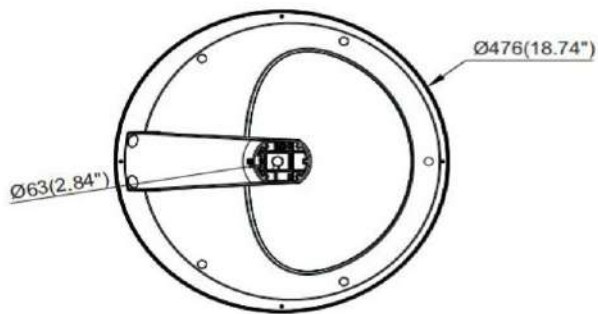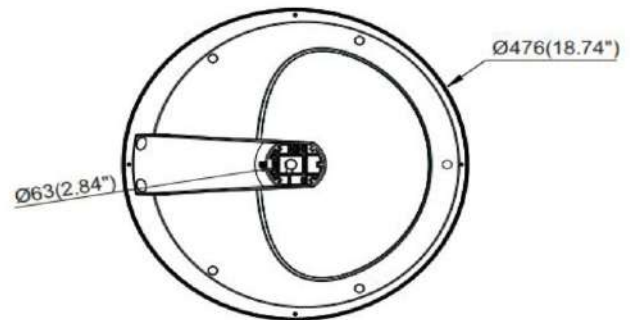
Ø476(18.74")

Ø63(2.84")

410(16.14")

Photocell Version

Ø476(18.74")

Ø63(2.84")

477(18.78")

NEMA Socket
ANSI C136.41-2013 Dimming
Receptacles
Code: NS-A00-02(3 Pin)
Code: NS-A00-03(5Pin)
Code: NS-A00-04(7 Pin)

Photocell Controller
ANSI C136.10-1996 Twist Lock for
On-Off function only

Code: PS-A00-01

Shorting Cap
PC Materials , UL773 Standard

Code: NA-A00-01

ZHAGA Receptacles
Compliant with Zhaga Book 18.

Code: ZG-A00-01

Plug and Play Motion Sensor
PC Material

Code: ANT-5-4T(Microvawa Sensor)
Code: ANT-6-4T(PIR Sensor)

Wall mount adaptor
Material :SPCC materials with
hot dip galvanizing.
Code: SP-R52-01

Post top mount adaptor
Q235 materials with Powder Coating.
Code: SP-R03-16 (60 to 76mm Dia)

DARK SPACE

PS05 Aura

Decorative LED post top light
with a large shade for visual comfort.

Up to 110lm/W   IP66   IK08   0-10V

Beauty with classic design and clean lines

Elegant design with Ø160mm transparent and slim cylindrical form light post, together with a large shade of Ø550mm on top to achieve the best aesthetics.

Ø550mm

Ø160mm

Flexible mounting

60 or 76mm spigots are optional for pole mounting, and easily exchangeable only by loosening three screws.

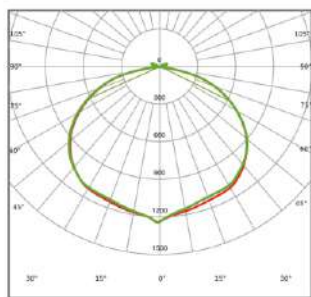DARK SPACE

Indirect lighting for visual comfort

Indirect lighting and a curved slope design of the lampshade allow luminaires to be installed on 3-6 meter poles, but humans will not see the brightest point in the middle, which creates a human-friendly and soft lighting performance.

75lm/W
ULR<1.2%

110lm/W
ULR<5%

PS05 Product Range

Model No	PS05-020	PS05-030	PS05-040	PS05-020/H	PS05-030/H	PS05-040/H
Power Consumption(±5%)	20W	30W	40W	20W	30W	40W
Input Voltage	100-240Vac, 50 / 60 Hz					
Control	0-10V(optional)					
Luminous Flux (±10%)	1500lm	2250lm	3000lm	2200lm	3300lm	4400lm
Efficacy(4000K Ra70)	75lm/W			110lm/W		
Beam Angle	U6402			U6401		
CCT & CRI	4000K (3000K/5000K optional)/Ra70 (Ra80 optional)					
Product Dimension(mm)	550x550x505					
Protection Rating	IP66, IK08					
Operating Temperature	-30°C to + 50°C					
Warranty	5 Years					

Photometric Diagrams

U6401
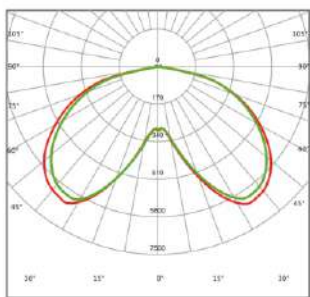
U6402

Mounting Options

Post top mounting

Description

PT03 is a classic LED post top light for illuminating yards, parks, parking areas and other public outdoor spaces. It is well shielded and delivers clear white light, creating a pleasant ambience at the same time as enabling good energy savings. Symmetrical light distribution is designed for area lighting. It is made of high-quality durable materials, and can be directly mounted on a Ø 60 mm & Ø 76 mm post. PT03 makes light dark sky friendly.

Key Features

- A classic design, clean lines and robust materials
- Dark sky friendly
- The luminaire has a symmetrical light distribution and a very comfortable visual effect
- Full wattage 20W, 30W, 40W
- IP66&IK08
- Pole mounting (Ø60mm & Ø76mm optional)

Applications

- Courtyard
- Private and public garden
- Community
- Causeway

Electrical Information

Model No.	PS05-020/H	PS05-030/H	PS05-040/H
Power Consumption(W)	20	30	40
Power Supply	SOSEN		
Input Voltage	100-240Vac, 50 / 60 Hz		
Power Factor	>0.9		
Surge Protection	6KV line-line, 10KV line-earth		
Driver Type	Constant Current (CC)		
Control	0-10V(optional)		
Note	NA		

* The tolerance for power is ±5%.

Optic Information

LED Type	LED 3030		
Luminous Flux (lm)	2200	3300	4400
Efficacy(4000K Ra70)(lm/W)	110		
Beam Angle	U6401		
Correlated Color Temperature	4000K (3000K/5000K optional)		
Color Rendering Index	Ra70 (Ra80 optional)		
UGR level	/		

*The tolerance for luminious flux is ±10%

Dimensions and Mount

Product Dimension (mm)	550x550x505
Luminaire Net Weight (kg)	4.66
Export Carton Size (mm)	Lamp post:545x230x235
	Lampshade:580x360x595 （4PCS/CTN）
Gross Weight (kg)	Lamp post:4.42
	Lampshade:9.55 （4PCS/CTN）
Mounting Option	Post top Ø 60mm/Ø 76mm
Material	ADC12
	PC cover
Finish	Powder coating
Fixture Color	Silver gray(RAL 9006)
IK Rating	IK08
IP Rating	IP66
Category of corrosion	C4-M

*The tolerance for weight is ±6%

Lifespan and Warranty

Operating Temperature (°C)	-30 to + 50
Life Time of LED @Ta=25°C (hours)	45000-L90
	93000-L80
	148000-L70
Warranty (years)	5

New Features

* Please consult us for details.

Photometry
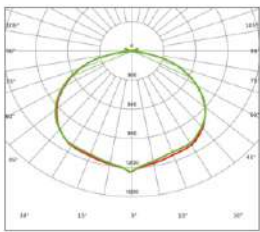
U6401

Mounting Options

Post top mounting (Ø 60mm/Ø 76mm)

Dimensions

21.65" (Ø550mm)

19.88" (505mm)

6.30" (160mm)

3.51" (89mm) /2.83" (72mm)

Accessories

DARK SPACE
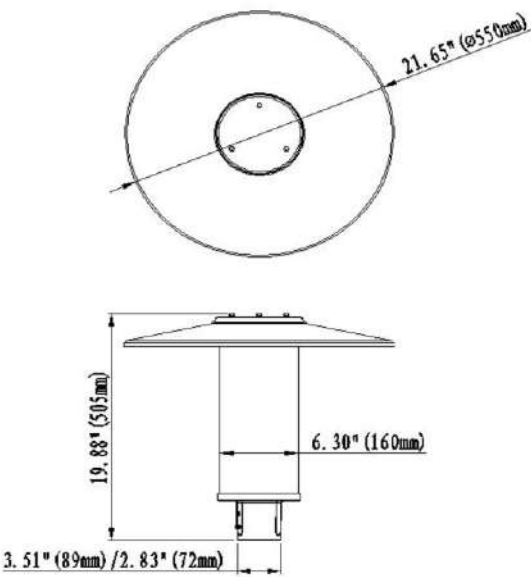
CE RoHS

Description

The ST40 series post top light is the crowning feature of any outdoor landscape or streetscape. When added to a park or walkway, post-top light illuminates landscape elements as well as improves safety by providing a uniform ambient light that increases visibility for pedestrians.
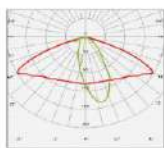
Key Features

- Contemporary, architectural design.
- Support the most popular mounting type such as single struct, twin struct, post top, side entry, etc.
- High output efficiency up to 150lm/w
- More than 10 kinds of optic lens for optional.
- The housing is made of 100% aluminum alloy.
- Akzo outdoor powder for stronger anti-corrosion.
- Tool-less maintenance.
- Compatible with NEMA socket, Zhaga.

Applications

- Roadway
- Parks
- Public square
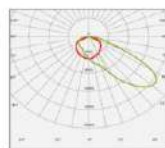- Private garden
- Residential area
- Walkway, pathway

Electrical Information
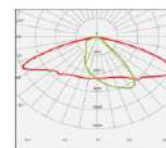
Model No.	ST06-030	ST06-050	ST06-060	ST06-075
Power Consumption(±5%)	30W	50W	60W	75W
Power Supply	MOSO			
Input Voltage	100-240 Vac, 50 / 60 Hz			
Power Factor	>0.94			
Surge Protection	4kV line-line,6kV line-earth			
Driver Type	Constant current (CC)			
Control	Dimmable / Photocell/ DALI dimmable/ZHAGA/ Microwave sensor/ PIR sensor			
Note	NA			

Optic Information

LED Type	LED 3030			
Efficacy (4000K RA70)	4500lm	7200lm	8700lm	11100lm
Efficacy(4000K Ra70)	150lm/W			
Correlated Color Temperature	4000K (3000K, 5000K optional)			
Color Rendering Index	Ra70 (Ra80 optional)			
Beam Angle	R601, R602, R603, R604, R605, R606, R607, R609, R610, R611, R613			
UGR level	N/A			

Dimensions and Mount

Product Dimension	φ400×510mm
Luminaire Net Weight	6.8±0.3kg
Export Carton Size	510x510x645mm
Gross Weight	9.4kg±0.3kg
Mounting Option	Single strut mounting,Twin strut mounting,Straight-arm mounting,Suspension mounting
	Gooseneck mounting,Post top mounting,Side entry mounting
Material	Aluminum alloy
	Tempered glass+polycarbonate optical lens
Finish	Powder coating
Fixture Color	Black(RAL9005)
EPA	0.11m²/1.15ft²
IK Rating	IK08
IP Rating	IP66
Category of corrosion	C4-M

Lifespan and Warranty
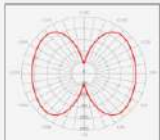
Operating Temperature	-30°C to + 50°C
Life Time of LED @Ta=25°C	43000hrs-L90
	89000hrs-L80
	142000hrs-L70
Warranty	5 Years

New Features

3 CCT Available

Power selectable, available for 30%, 50%, 75% and 100%.

Please consult us for details.

Photometry
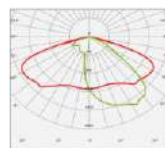
R01601	R01602	R01603	R01604	R01605	R01606	R01607	R01609
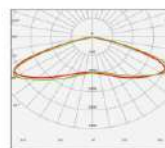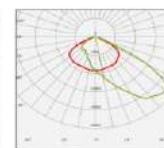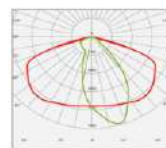
R01610	R01611	R01613

Product Code List

| Mounting Option	Min.Power	Product Dimension (mm/inch)	NW (± 0.3kg)	GW (± 0.3kg)	Export Carton Size(mm)	Light Curve	Efficacy (4000K Ra70±10%)
Single strut mounting		531(20.91")xφ400(15.75")					140lm/W
Twin strut mounting		509.7(20.07")xφ400(15.75")	6.8	9.4	510x510x645		130lm/W
Straight-arm mounting		547.5(21.56")xφ400(15.75")					
Post top mounting		485(19.09")xφ400(15.75")					
Side entry mounting		585(23.03")xφ400(15.75")	6.5	7.8	470x470x240		150lm/W
Suspention mounting		263.2(10.36")xφ400(15.75")					
Gooseneck mounting		141.7(5.58")xφ400(15.75")	5.8	7.2			

* The light distribution will be different due to the different mounting brackets.

DARK SPACE

www.DarkSpace.in

Unit:(mm/inch)
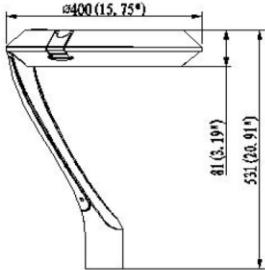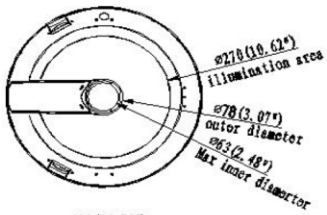
Single strut mounting
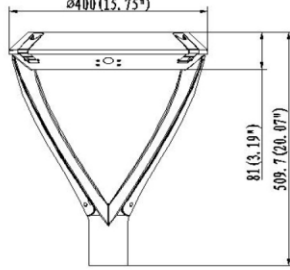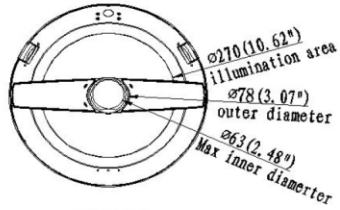
Twin strut mounting
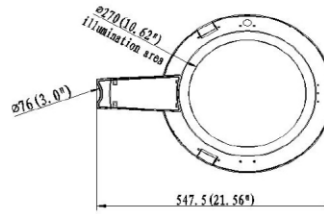
Straight-arm mounting
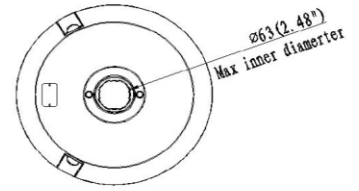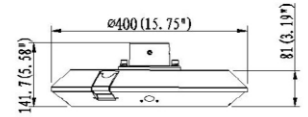
Gooseneck mounting
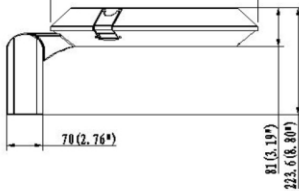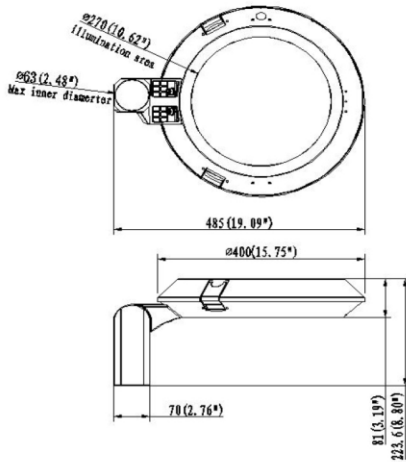
Post top mounting
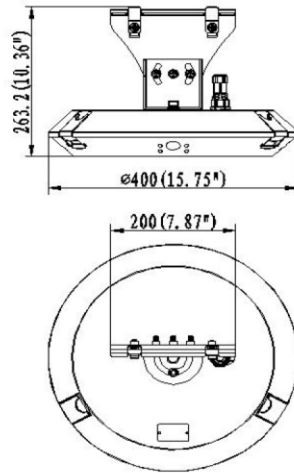
Suspention mounting

Side entry mounting

NEMA socket
ANSI C136.41-2013 Dimming Receptacles,
3pin/ 5pin /7pin are optional.
Code: NS-A00-02(for 3pin)
Code: NS-A00-03(for 5pin)
Code: NS-A00-04(for 7pin)

Photocell control
ANSI C136.10-1996 Twist Lock for On-Off
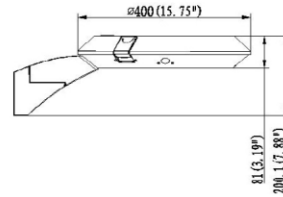function only.
Code: PS-A00-01

Shorting cap
Cover NEMA socket when it is not used.
Code: NS-A00-01

Single strut
ADC12 materials with
outdoor powder coating.
for dia.60mm pole.
Compatible with heat sink A.
Code:SP-R40-04

Twin strut
ADC12 materials with outdoor
powder coating.
for dia.60mm pole.
Compatible with heat sink A.
Code:SP-R40-05

Straight-arm bracket
ADC12 materials with outdoor
powder coating.
for dia.60mm pole,
for 74mm square pole.
Compatible with heat sink A.
Code:SP-R40-02

Slip fitter bracket
ADC12 materials with outdoor
powder coating.
for dia.60mm pole.
Compatible with heat sink A.
Code:SP-R40-03

Gooseneck bracket
ADC12 materials with outdoor
powder coating.
for dia.60mm pole.
Compatible with heat sink A.
Code:SP-R40-01

Suspention bracket
SPCC materials with outdoor
powder coating.
Compatible with heat sink B.
Code:BC-R23-01

DARK SPACE

CE CB RoHS

Electrical Information

Model No	PS08-030	PS08-040	PS08-060
Power Consumption(±5%)	30W	40W	60W
Power Supply	MOSO		
Input Voltage	100-240VAC, 50 / 60 Hz		
Power Factor	>0.95		
Surge Protection	6kV line-earth,4kV line-line		
Driver Type	Constant Current (CC)		
Control	Dimmable		
	Dali		
	Photocell		

Optic Information

LED Type	LED 2835		
Luminous Flux (±10%)	3600lm	4800lm	7200lm
Efficacy(4000K Ra70)	120lm/W		
Correlated Color Temperature	4000K (3000K, 5000K optional)		
Color Rendering Index	Ra70 (Ra80 optional)		
Beam Angle	RC49		
UGR Level	NA		

Description

PT01 is a lighter weight compact post top light, three wattages well satisfy different applications. The special optics design contributes to comfortable visual experience.

Dimentions and Mount

Product Dimension	φ318x143mm
Luminaire Net Weight(±0.3kg)	3.3kg
Export Carton Size	390x390x213mm
Gross Weight(±0.3kg)	4.2kg
Mounting Option	Post top mounting
Material	Aluminum alloy
	Polycarbonate optical lens
Finish	Powder coating
Fixture Color	Silver
EPA	0.08m² (0.86ft²)
IK Rating	IK08
IP Rating	IP66
Category of corrosion	C4-M

Key Features

- Three wattages, 30W, 40W, 60W.
- System efficiency up to 120lm/w, lumen package 3600lm-7200lm.
- Photocell optional.
- IP66 & IK08 double protection.
- Low UGR, visual comfortable.

Lifespan and Warranty

Operating Temperature	-30°C to + 50°C
Life Time of LED @Ta=25°C	31000hrs-L90
	64000hrs-L80
	101000hrs-L70
Warranty	5 years

Applications

- Village streets
- Urban road
- Country yard
- Parking lot
- Walk path
- Park

New Features

Please consult us for details.

RC49

Post top mounting

Ø318mm (12.52")

Ø61mm (2.40")

143mm (5.63")

88mm (3.46")
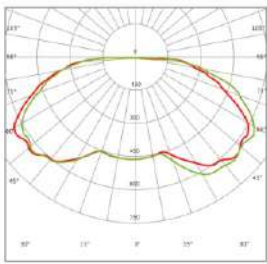
Photocell Control
ANSI C136.10-1996 Twist Lock for On-Off
function only

Code: PS-A00-01

NEMA Socket
ANSI C136.41-2013 Dimming Receptacles
Code: NS-A00-02(3Pin)
Code: NS-A00-03(5Pin)
Code: NS-A00-04(7Pin)

Wall mount adaptor
Material :SPCC materials with hot dip galvanizing.

Code: SP-R52-01

DARK SPACE

Solar Post Top
SP09 10W 20W 30W

130 LM/W | IK10 | IP65 | 0°C to +50°C

Global Climate Crisis

No continent is left untouched, with heatwaves, droughts, typhoons, and hurricanes causing mass destruction around the world. 90 per cent of disasters are now classed as weather- and climate-related, costing the world economy 520 billion USD each year, while 26 million people are pushed into poverty as a result.

2600000

520000000
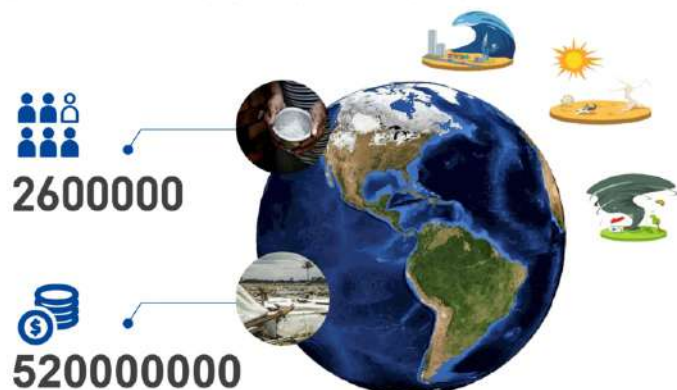
Carbon Neutrality Target

More than a hundred countries have joined an alliance aiming for net zero emissions by 2050.

We have to do something

TARGET 2050

Carbon Neutrality

DARK SPACE

ST49 100% Green Engery

- 0 Carborn emission
- 0 Trench
- 0 Grid
- 0 Electrical consumption
- 100% Autonomous Solution

Humanistic Care to Urban space

ST49 blends solar with post top style brings green energy and urban space

Ingenious optic microstructural design, LEDs hided to reduce uncomfortable caused by emitting directly to eyes, replaced by visual comfort from diffused lighting distribution

DARK SPACE

High Efficiency

- Monocrystalline Solar Panel
- High conversion efficiency
- 3%-5% > polycrystalline solar panel

8Hour

- LiFePO4 Battery
- Charging fast and stable performance
- 8 hours working time under full power

Save Cost

- Easy Installation
- Easy Maintenance
- Save labor cost

- G.W 8kg, single person can operate easily

DARK SPACE

Datasheet

SPECIFICATION	1300lm	2600lm	3900lm
MODEL	SP09-010	SP09-020	SP09-030
WATTAGE	10w	20w	30w
COLOR TEMP	4000K (3000K, 5000K optional)		
EFFICIENCY	130 LM/W		
OPTIC	R00C50		
LED CHIP	SMD 2835 LED chips		
BATTERY	LiFePO4 - 76.8Wh	LiFePO4 - 153.6Wh	LiFePO4 - 230.4Wh
CONTROLLER	MPPT		
SOLAR PANEL TYPE	Monocrystalline		
CHARGING TIME	>3 hrs	>6 hrs	>9 hrs
AUTONOMY	Full power>8 hours, Intelligent mode 3-4 days		
IP RATING	IP65		
OPERATION MODE	Remote control with one-key setting		
CONTROL	Timer dimming/PIR sensor		
INSTALLATION HEIGHT	3-7m, Post Top, compatible with 60mm pole		
OPERATING TEMPERATURE	0℃~50℃		

Integrated Smart Control PIR motion sensor

Factory default: 5 Stage night mode:

Time 1 and Time 2: Light keeps 100% brightness for 0.5 hours

During Time 3 (1st 4 hours):
If motion detected by PIR sensor, luminiare dims up to **50%**, then down to **10%** after 30s' hold time when nothing detected.

50%   10%   ⏱ 0:30

During Time 4 (2nd 4 hours):
If motion detected by PIR sensor, luminiare dims up to **20%**, then down to **10%** after 30s' hold time when nothing detected.

20%   10%   ⏱ 0:30

During Time 5:
lighting fixture keep 10% brightness for 3 hours until **sunrise.**

10%

Working with sensor, available to working at 3-4 Cloudy or Rainy days

((•)) PIR

DARK SPACE

Application

Anywhere with sufficient sun light
No electrical grid to be invested

Park	Square	Garden	Pathway etc

DARK SPACE

CE RoHS

Electrical Information

Model No	SP09-010	SP09-020	SP09-030
Power Consumption(±5%)	10W	20W	30W
Battery	LiFePO4 battery		
Battery Capacity	76.8Wh	153.6Wh	230.4Wh
Solar Panels	Mono-crystalline solar panel		
Solar Panel Wattage	30W		
Charging Time	>3hours	>6hours	>9hours
Operating Time	Normal mode>8 hours,Intelligent mode 3-4 days		
Solar Charge Controller	MPPT		
Working Mode	Refer to intelligent control		
Control	Timmer dimming/PIR sensor		

Optic Information

LED Type	LED 2835		
Luminous Flux (±10%)	1300lm	2600lm	3900lm
Efficacy(4000K Ra70)	130lm/W		
Correlated Color Temperature	4000K (3000K, 5000K optional)		
Color Rendering Index	Ra70 (Ra80 optional)		
Beam Angle	RC49		
UGR Level	NA		

Description

ST49 is a lighter weight integrated solar post top light, three wattages well satisfy different applications. The special optics design contributes to comfortable visual experience. The built-in PIR sensor support intelligent dimming control, and offer longer discharge time.

Dimentions and Mount

Product Dimension	φ575x151mm		
Luminaire Net Weight(±0.3kg)	6.6kg	7.2kg	7.8kg
Export Carton Size	650x650x215mm		
Gross Weight(±0.3kg)	8.5kg	9.1kg	9.7kg
Mounting Option	Post top mounting		
Material	Aluminum alloy		
	Polycarbonate optical lens		
	Mono-crystalline solar panel		
Finish	Powder coating		
Fixture Color	Silver		
EPA	0.22m² (2.368ft²)		
IP Rating	IP65		

Key Features

- Three wattages, 10W, 20W, 30W.
- System efficiency up to 130lm/w, lumen package 1300lm-3900lm.
- Smart control with built-in PIR sesnor and timmer dimming.
- Higher conversion Mono-crystalline photovoltaic solar panel.
- Easy maintainance with removable battery.
- Low UGR, visual comfortable.

Lifespan and Warranty

Operating Temperature	0°C to + 50°C
Life Time of LED @Ta=25°C	31000hrs-L90
	64000hrs-L80
	101000hrs-L70
Warranty	3 years

Applications

- Village streets
- Urban road
- Country yard
- Parking lot
- Walk path
- Park

New Features

*Please consult us for details.
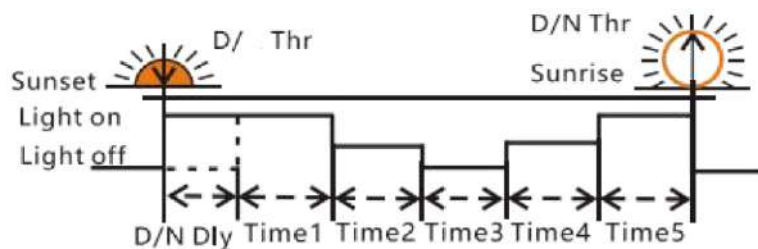
Photometry
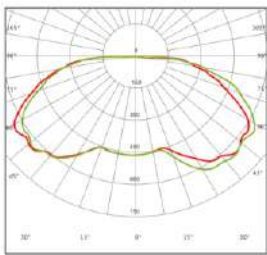
RC49
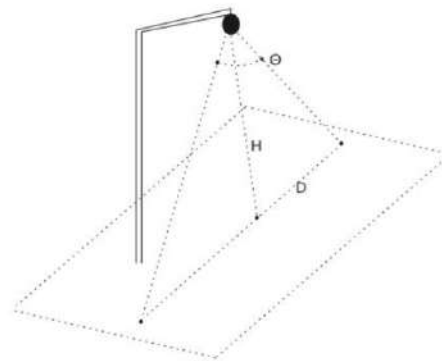
Mounting Options

Post top

Intelligent Control Mode

5 Stage Night Mode

* Please note the sensor function is only available at Time 3 and Time 4

*You can set the fixtures with 5 stages timmer dimming yourself by the remote control.

Infrared sensor
θ(Angle): 60°
H(Height): 7m
D(Width): 8m

Microwave sensor
θ(Angle): 150°
H(Height): 15m
D(Width): 7m

PIR Sensor Detect Areas

Factory Default Setting:

With sufficient natural light, the light keeps charging

1st 4hours from light switches on, the light keeps 100% brightness when presence is detected

The light keeps 30% when there is no presence is detected after 30S hold time in the 1st 4 hours

The light keeps 60% brightness when there is presence is detected from 5th to 8th hours after light switches on

After 30S hold time within 5th to 8hours , the light dim to 20% brightness when there is no presence is detected

The light keeps 10% brightness for 3hours until the Sunrise.

The controller recognizes day and night based on the Solar Array Open Circuit Voltage, this day/night threshold can be modified according to local light conditions and the Solar Array Used, setting range 3.0 ~8.0V

Ø575mm (22.64")

151mm (5.94")
88mm (3.46")
Ø61mm (2.4")
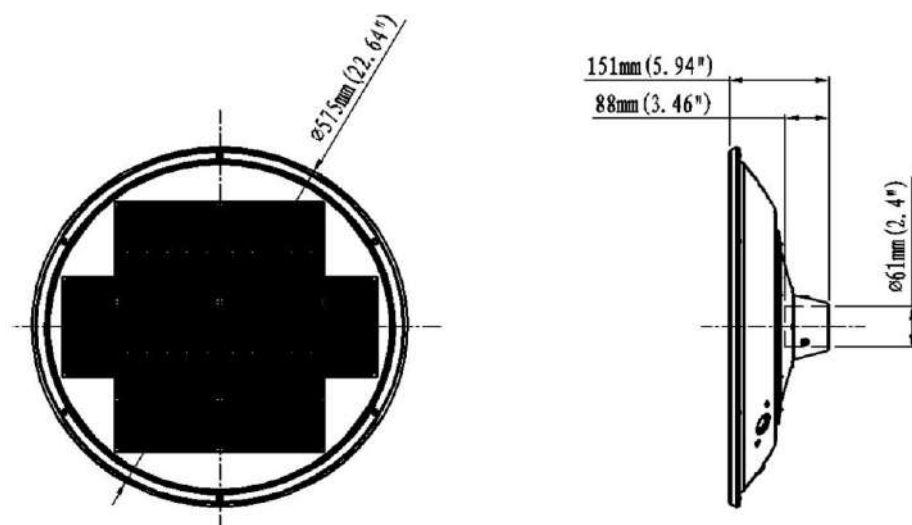
Remote Control

remote controller for solar street light
code: SG-Unit(SU06)

CCT & Power Adjustable

BD01

Bullet with 360°Coverage

130LM/W	IP66	IK08	5 YEARS WARRANTY	EASY CLEAN	CORROSION RESISTANCE

Aesthetic Design Concept

TO THE URBAN SPACE

The elegant clean housing with 360°-surround-lighting bollard with Type V distribution makes BL03 an ideal landscape lighting solution that enriches the environment and the pedestrian experience where they are installed.

The smooth surface design makes the bollard easy to clean even in rainy days for saving labor cost and as well as keeping the installation environment clean.
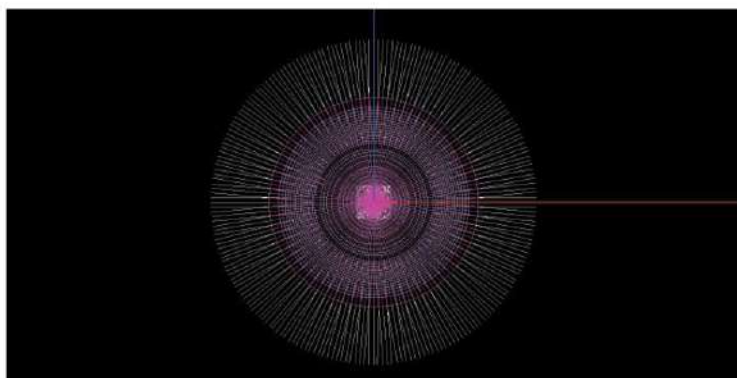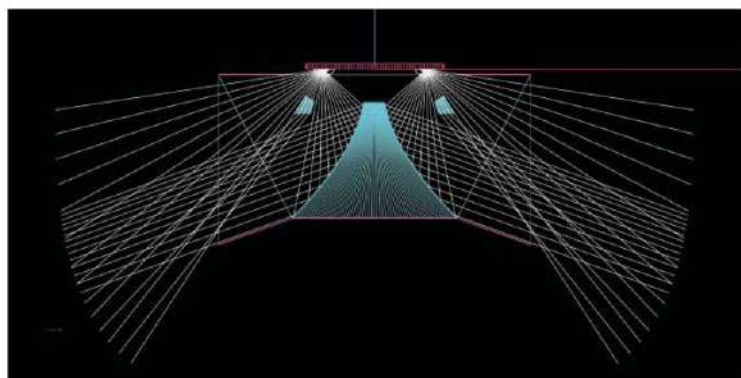

DARK SPACE

360°Coverage Bollard Light

BL03 is the newest 360°-surround-lighting bollard with Type V distribution for wider illumination zone and to avoid shadows caused by lamp arms.

2 Vision Options

Milky PC cover
for visual comfort

Low UGR Version
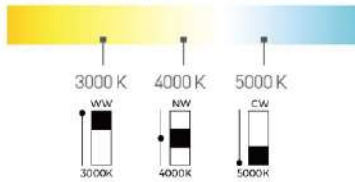
High Efficiency

Optical Engine
up to 130lm/w

CCT & Power Adjustable

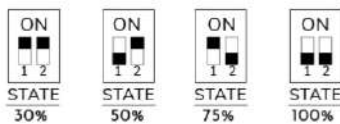Maximize project flexible and reduce SKU as less as possible

- **3 CCT Adjustable**
  3000K, 4000K, 5000K adjustable

3000 K	4000 K	5000 K
WW	NW	CW
3000K	4000K	5000K

- **4 Power Adjustable**
  100%、75%、50%、30% adjustable

ON 1 2	ON 1 2	ON 1 2	ON 1 2
STATE 30%	STATE 50%	STATE 75%	STATE 100%

Human-Centric Lighting

INTELIGENT
PIR / Microwave

In addition to the universal practice of energy saving, it is more and more important to follow the trend of human oriented for lighting application.

The built-in motion (PIR/microwave) sensor does not compromise its elegant appearance, save energy bills by adjusting the lumen output when movement detected.
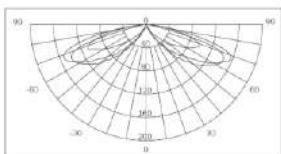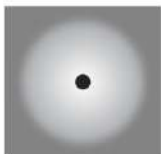
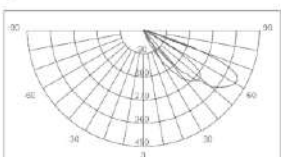**DARK** SPACE
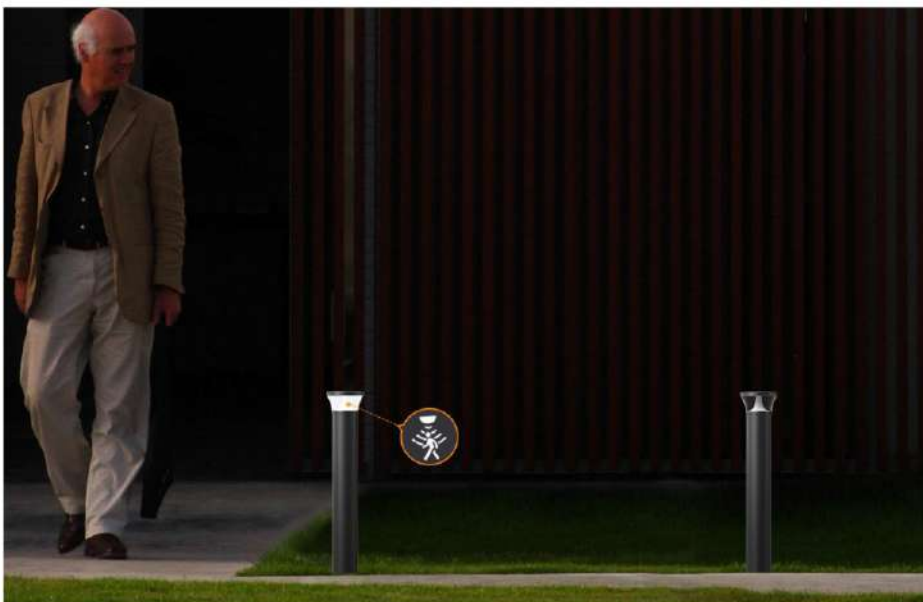
2 Mounting Options
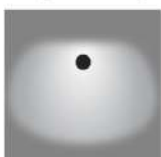Enrich your urban light family

· **Bollard light**
360° Coverage

· **Wall light**
Single side lighting

with assymetric beam angle.

Specification

	Bollard light		Wall light	
Model No	BD01-013	BD01-025	BD01-013	BD01-025
Power Consumption	13W	25W	13W	25W
Luminous Flux (±5%)	1,690lm	3,250lm	Coming soon	
Efficacy	130LM/W			
Beam angle	Type V (R401)			
CCT/CRI	4000K (3000K, 5000K Optional) /Ra70			
Input Voltage	100-240 VAC/220-240 VAC , 50 / 60 Hz			
Fixture Color	Black			
IK & IP Rating	IK08, IP66			
Control	Dimmable and Non-dimmable, Motion Sensor,			
Product Dimension	Ø133*475mm / 3.8KG, Ø133*975mm / 5.3KG			
Operating Temp.	-30°C ~ +50°C			
Performance	Strong anti-corrosion with AKZO powder, superior dual coat finish, passed >500H salt spray test			

DARK SPACE

Dimensions

φ 200mm(7.87")
85mm(3.35")
975mm(38.38")
φ 133mm(5.23")

φ 200mm(7.87")
85mm(3.35")
475mm(18.7")
φ 133mm(5.23")

φ 200mm(7.87")
85mm(3.35")
256mm(10")
121.3mm(4.77")
φ 186.7mm(7.35")
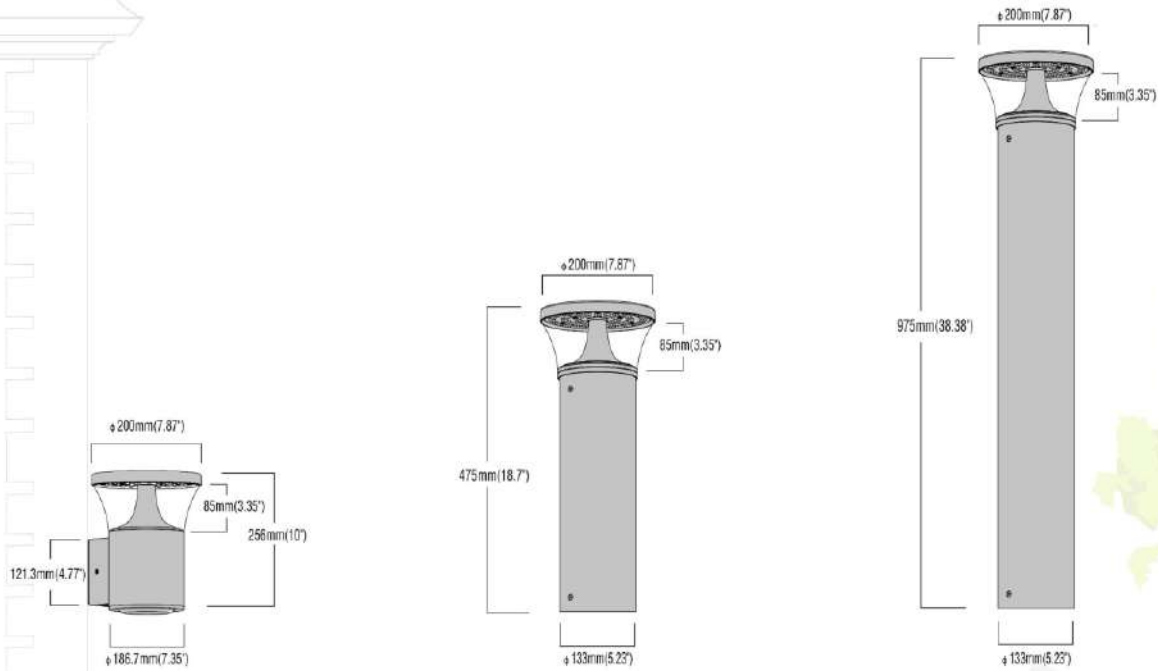
Flexible Packing Methods

Flexible packaging methods to meet customer needs.

For Project: Fully-assembled

Full-assembled 0.5m   Or   Full-assembled 1m
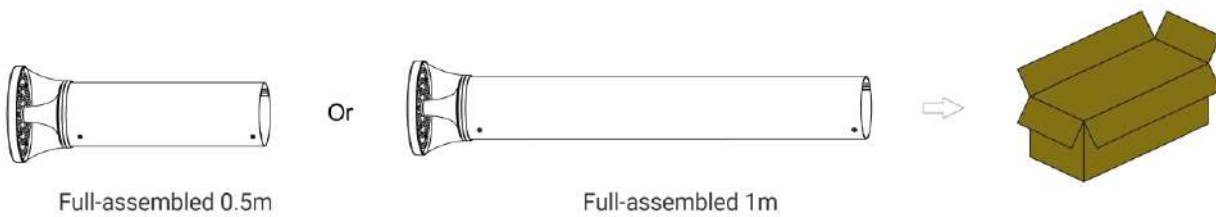
For Inventory: Head and pole packed seperately

Lamp body   +   Bollard 0.5m   Or   Bollard 1m

CE CB RoHS

Electrical Information

Model No.	BD31-014	BD31-025
Power Consumption(±5%)	14W	25W
Power Supply	Upshine/Done	
Input Voltage	220-240 Vac 50 / 60 Hz	
Power Factor	>0.9	
Surge Protection	Upshine: 0.5kV line-line	
	Done: 4kV line-line, 6kV line-earth	
Driver Type	Constant current (CC)	
Control	Non-dim/Dimmable/DALI	
Note	NA	

Optic Information

LED Type	LED 3030	
Luminous Flux (±10%)	1400lm / 1820lm	2500lm / 3250lm
Efficacy(4000K Ra70)	100lm/W (Milky PC cover), 130lm/W (Clear optic lens)	
Correlated Color Temperature	4000K (3000K, 5000K optional)	
Color Rendering Index	Ra70 (Ra80 optional)	
Beam Angle	UC06(TypeV very short), R0401 (Type V)	
UGR level	NA	

Description

BL03 is an excellent urban luminaire for new construction or retrofit application. The high output LED and 14W-25W makes the power as a whole series.Smart control of built-in motion sensor makes it more energy-efficient. As bollard light, available in 0.5M and 1M height. As wall light, asymmetric beam angle can full use of lighting without wast.

Dimensions and Mount

Product Dimension	0.5M: φ203x475mm (φ8"×18.7")
	1.0M: φ203x975mm (φ8"×38.38")
Luminaire Net Weight (±0.3kg)	0.5M: 3.8kg (8.38Lbs)
	1.0M: 5.6kg (12.34Lbs)
Export Carton Size (All-in-one package)	0.5M: 620x260x265mm (24.41"×10.24"x10.43")
	1.0M: 1125x260x265mm (44.29"×10.24"x10.43")
Gross Weight (± 0.3kg) (All-in-one package)	0.5M: 4.7kg (10.36Lbs)
	1.0M: 7.2kg (15.87Lbs)
Export Carton Size (Separated package)	14W/25W Heading: 360x260x255mm (14.17"×10.24"x10.04")
	Body - 0.5M: 505x225x230mm (19.88"×8.86"x9.1")
	Body - 1.0M: 1005x225x230mm (39.57"×8.86"x9.1")
Gross Weight (± 0.3kg) (Separated package)	14W/25W Heading: 2.1kg (6.43Lbs)
	Body - 0.5M: 2.4kg (5.3Lbs)
	Body - 1.0M: 4.4kg (9.7Lbs)
Mounting Option	Mounting kit with anchor bolts
Material	Aluminum alloy
	Polycarbonate optical lens
Finish	Powder coating
Fixture Color	Black (RAL9017)
EPA	NA
IK Rating	IK10
IP Rating	IP66
Category of corrosion	C4-M

Key Features

- Two ways installation as bollard and wall light.
- High output lumen efficiency, up to 130lm/W
- The housing is made of 100% aluminum alloy (ADC12/AL6063)
- Outdoor powder coating for anti-corrosion.
- Easy to maintain.
- Wall mount is optional
- Robust design with IK10 protection
- Micky diffuser is available for soft lighting

Lifespan and Warranty

Operating Temperature	-30°C to + 45°C
Lifespan of LED @Ta=25°C	46000hrs-L90
	91000hrs-L80
	153000hrs-L70
Warranty	5 Years

Applications

- Gardens
- Pathways
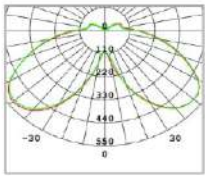- Sidewalk
- Building Entrance

New Features

- The power could be set to 30%, 50%, 75% and 100%.
- The CCT could be set to Cool White, Natural White and Warm White.
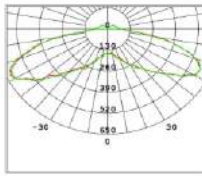- Please select a suitable Power and CCT by the switch.

Please consult us for details.
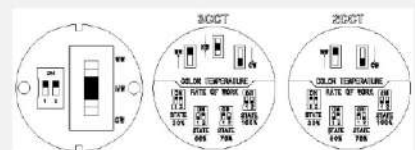
Photometry

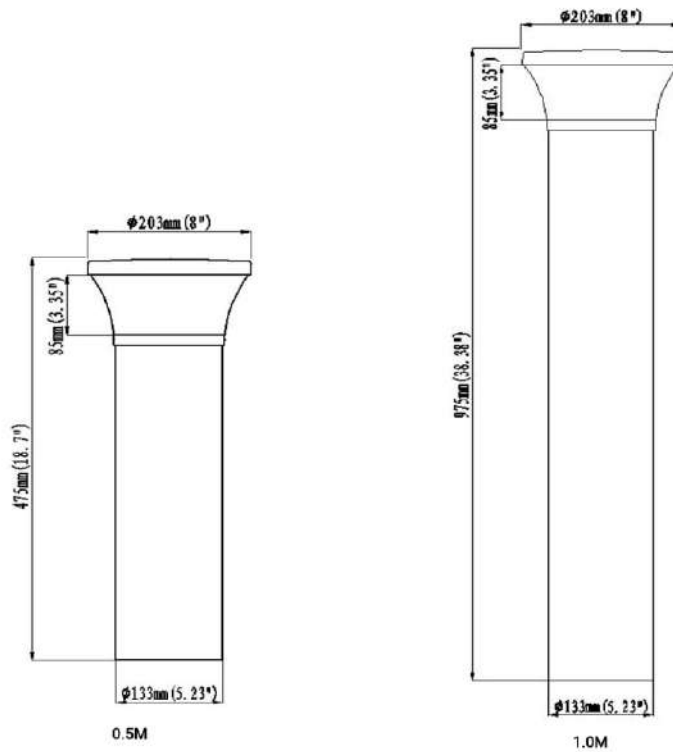UC06(Milky PC cover)

R401 (Clear optic lens)

Mounting Options

Mounting kit with anchor bolts

Dimensions

Unit:mm

φ203mm (8")

85mm (3.35")

475mm (18.7")

φ133mm (5.23")

0.5M

φ203mm (8")

85mm (3.35")

975mm (38.38")

φ133mm (5.23")

1.0M

Accessories

Backfilled Anchor
Q235+SPCC, hot dip galvanizing
φ130x508mm.

Code: MT-BL01-03

CE   CB   SAA   RoHS

Electrical Information

Model No.	BD32-014	BD32-024
Power Consumption(±10%)	14W	24W
Power Supply	UPSHINE/LIFUD	
Input Voltage	220-240 VAC , 50 / 60 Hz	
Power Factor	>0.9	
Surge Protection	0.5kV line-line, 2kV line-earth / 1kV line-line, 2kV line-earth	
Driver Type	Constant Current (CC)	
Control	DALI	
Note	NA	

Optic Information

LED Type	LED 3030	
Luminous Flux (±10%)	1190lm	1920lm
Efficacy(4000K Ra80)	85lm/W	80lm/W
Correlated Color Temperature	4000K (3000K, 5000K optional)	
Color Rendering Index	Ra80 (Ra70 optional)	
Beam Angle	R201, R202, R203	
UGR level	NA	

Description

BL01 is an innovative bollard light which enhance the aesthetic and creative of city in IP66 , thanks to its architectural design and UV resistant PC material to accommodate the demands of different areas in pathway, gardens, sidewalks, building entrance and etc.

Dimensions and Mount

Product Dimension	0.5m: Φ165×500mm (Φ6.5"×19.69") 0.9m: Φ165×900mm (Φ6.5"×35.43")
Luminaire Net Weight (±0.3kg/±0.66Lbs)	0.5m: 4.5kg (9.92Lbs) 0.9m: 6.16kg (13.58Lbs)
Export Carton Size (All-in-one package)	Lamp 0.5m: 655x210x215mm (25.79"×8.27"×8.46") Lamp 0.9m: 1065x210x215mm (41.93"×8.27"×8.46")
Gross Weight (All-in-one package) (±0.3kg/±0.66Lbs)	Lamp 0.5m: 5.2kg (11.46Lbs) Lamp 0.9m: 7.2kg (15.87Lbs)
Export Carton Size (Separated package)	Lamp body: 360 x 210 x215mm (14.17"×8.27"×8.46") Lamp holder 0.5m: 505x210x215mm (19.88"×8.27"×8.46") Lamp holder 0.9m: 915x210x215mm (36.02"×8.27"×8.46")
Gross Weight (Separated package) (±0.3kg/±0.66Lbs)	Lamp body: 2.66kg (5.86Lbs) Lamp holder 0.5m: 2.94kg (6.48Lbs) Lamp holder 0.9m: 4.9kg (10.8Lbs)
Mounting Option	Mounting kit with anchor bolts
Material	Aluminum alloy Polycarbonate optical Lens
Finish	Powder coating
Fixture Color	Black (RAL 9017)
EPA	NA
IK Rating	IK10
IP Rating	IP66
Category of corrosion	C4-M

Key Features

· IP66 and IK10
· Unique and gorgeous appearance
· Visor is available as accessory
· Professional Type IV / Type V light distribution

Lifespan and Warranty

Operating Temperature	-30°C to + 50°C(-22°F to 122°F)
Life Time of LED @Ta=25°C	37,800hrs-L90 78,500hrs-L80 124,600hrs-L70
Warranty	5 Years

Applications

· Gardens
· Pathways
· Sidewalk
· Building entrance

New Features

· 10KV SPD available

Please consult us for details.

Photometry

14W
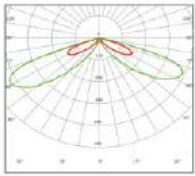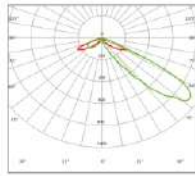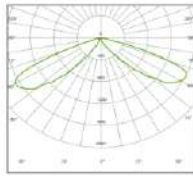
R201	R202	R203

24W
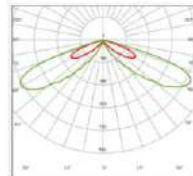
R201	R202	R203
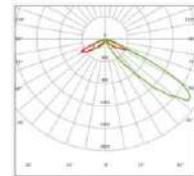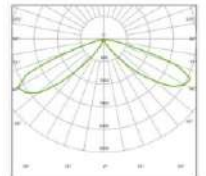
Mounting Options

Mounting kit with anchor bolts

Dimensions

0.5M 14W/24W

∅165 (6. 5")

500 (19. 69")

0.9M 14W/24W

∅165 (6. 5")

900 (35. 43")

Base plate templates   **Unit:mm/inch**

3x120°

∅50 (1. 97")
∅100 (3. 94")
∅70 (2. 76")

3x120°
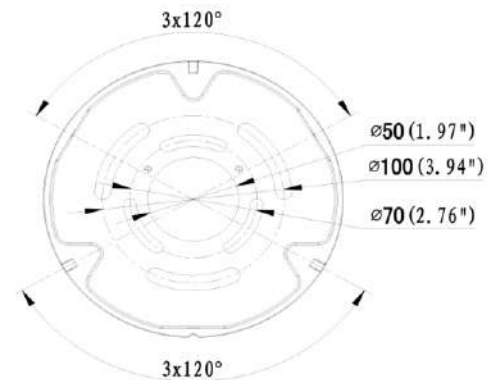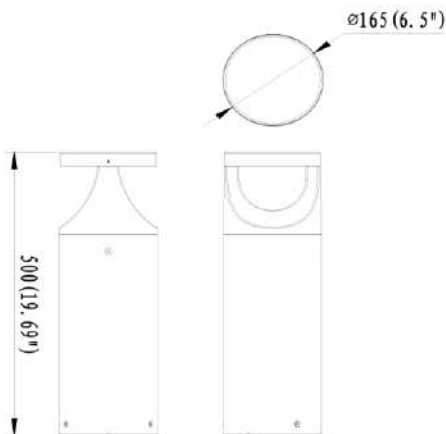
Accessories

Round House Side Shield
To reduce glare light

Code: BC-B01-02

Terminal Box

Code: CK-B01-01

Backfilled Anchor
Q235 +SPCC, hot dip galvanizing
Φ130x508mm.

Code: MT-B01-02

DARK SPACE

CE RoHS SAA

Electrical Information

Model No.	BD33-015	BD33-025
Power Consumption(±10%)	15W	25W
Power Supply	UPSHINE/LIFUD	
Input Voltage	220-240 Vac , 50 / 60 Hz	
Power Factor	>0.9	
Surge Protection	0.5kV line-line, 2kV line-earth / 1kV line-line, 2kV line-earth	
Driver Type	Constant current (CC)	
Control	PIR sensor/DALI	
Note	NA	

Optic Information

LED Type	LED 3030	
Luminous Flux (±10%)	1500lm(R02001)/ 1425lm(R02002)	2500lm(R02001)/ 2375lm(R02002)
Efficacy(4000K Ra80)	100lm/W(R02001)/ 95lm/W(R02002)	100lm/W(R02001)/ 95lm/W(R02002)
Correlated Color Temperature	4000K (3000K, 5000K optional)	
Color Rendering Index	Ra80 (Ra70 optional)	
Beam Angle	R001(Type V), R002(Type IV)	
UGR level	NA	

Description

BL02, a slim and creative bollard, catching our eyes with its unique aesthetic design, helps lighting up your project space. Intelligent control like PIR sensor saves energy bills. IP66 and IK10 rated, also with its UV resistant polycarbonate optical lens, ideals for various outdoor applications.

Dimensions and Mount

Product Dimension	0.5m: Φ135×500mm (Φ5.31"×19.69") 1m: Φ135×1000mm (Φ5.31"×39.37")
Luminaire Net Weight (±0.3kg/±0.66Lbs)	0.5m: 3.8kg (8.38Lbs) 1m:5.4kg (11.9Lbs)
Export Carton Size (All-in-one package)	Full-assembled 0.5m: 650×225×230mm (25.59"×8.86"×9.06") Full-assembled 1m: 1150×225×230mm (45.28"×8.86"×9.06")
Gross Weight (All-in-one package) (±0.3kg/±0.66Lbs)	Full-assembled 0.5m: 4.5kg (9.92Lbs) Full-assembled 1m: 6.5kg (14.33Lbs)
Export Carton Size (Separated package)	Heading: 410×210×220mm (16.14"×8.27"×8.66") Bollard 0.5m: 505×225×230mm (19.88"×8.86"×9.06") Bollard 1m: 1005×225×230mm (39.57"×8.86"×9.06")
Gross Weight (Separated package) (±0.3kg/±0.66Lbs)	Heading: 2.5kg (5.51Lbs) Bollard 0.5m: 2.4kg (5.29Lbs) Bollard 1m: 4.4kg (9.7Lbs)
Mounting Option	Mounting kit with anchor bolts
Material	Aluminum alloy Polycarbonate optical lens
Finish	Powder coating
Fixture Color	Black (RAL 9017)
EPA	NA
IK Rating	IK10
IP Rating	IP66
Category of corrosion	C4-M

Key Features

- 15W/25W, system efficacy up to 105lm/W
- IP66 and IK10
- PIR sensor and DALI available
- Professional Type IV / Type V lighting distribution
- 0.5 and 1.0 m height optional

Lifespan and Warranty

Operating Temperature	-20°C to + 45°C(-4°F to 113°F) (Conventional) -20°C to + 40°C(-4°F to 104°F) (PIR sensor) -30°C to + 50°C(-22°F to 122°F) (DALI)
Life Time of LED @Ta=25°C	57,000hrs-L90 130,000hrs-L80 210,000hrs-L70
Warranty	5 years

Applications

- Gardens
- Pathways
- Sidewalk
- Building entrance

New Features

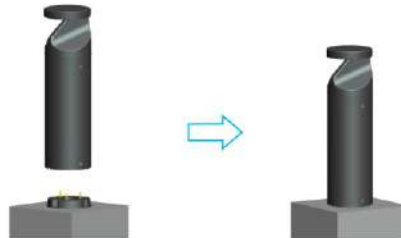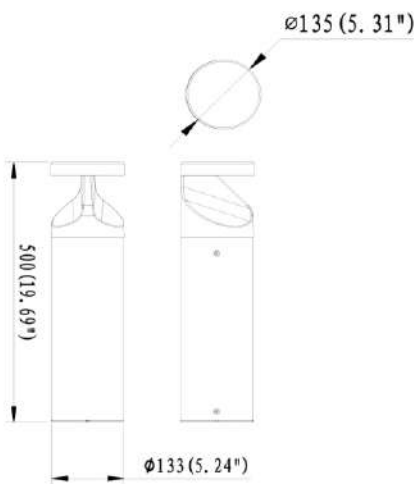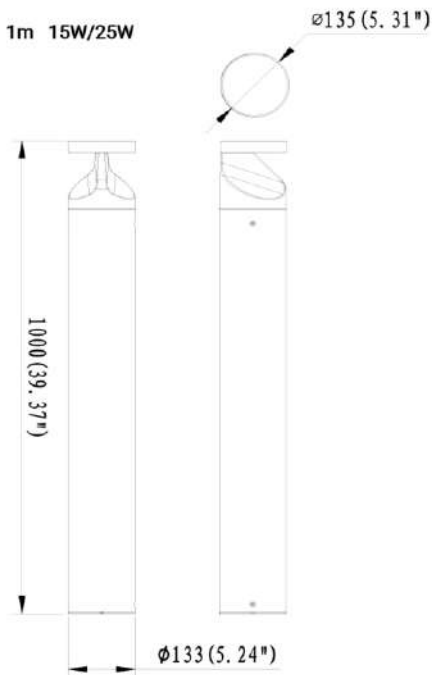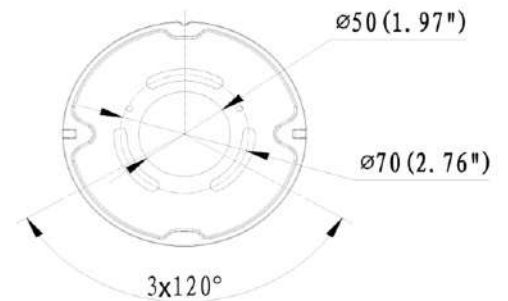*Please consult us for details.*

Photometry

15W beam angle
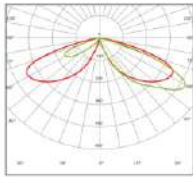
R201
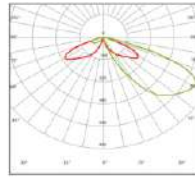
R202

25W beam angle
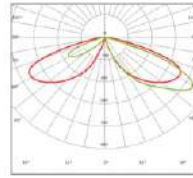
R201
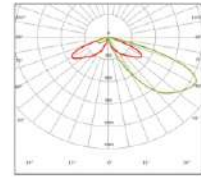
R202

Mounting Options

Mounting kit with anchor bolts

Dimensions

0.5m 15W/25W

1m 15W/25W

⌀135 (5. 31")

Base plate template

Unit:mm/inch

⌀135 (5. 31")

500 (19. 69")

⌀133 (5. 24")

1000 (39. 37")

⌀133 (5. 24")

⌀50 (1. 97")

⌀70 (2. 76")

3x120°

Accessories

Backfilled Anchor
Q235 +SPCC, hot dip galvanizing
Φ130x508mm.

Code: MT-B01-03

DARK SPACE

CE RoHS

Electrical Information

Model No.	BDS34-003
Power Consumption(±20%)	3W
Battery	LiFePO4 battery
Battery Capacity	38.4Wh
Solar Panels	Mono-Crystalline solar panel
Solar Panel Wattage	5W
Charging Time	>8hours
Operating Time	Normal mode>11 hours,Intelligent mode 2-3 days

Working mode

Lighting scheme	Time 1	Time 2	Time 3	Time 4	Time 5	Energy consumption	Working hours in rainy days
1 (Factory default)	6H×30%	0H×100%	0H×100%	TOT×0%	1H×30%	7.4Wh	4-5 Days
2	6H×30%	6H×30%	0H×100%	0H×0%	0H×100%	12.6Wh	3-4 Days
3	6H×50%	6H×30%	0H×100%	0H×0%	0H×100%	16.8Wh	2-3 Days
4	4H×70%	4H×30%	4H×30%	0H×0%	0H×100%	18.2Wh	1-2 Days
5	4H×100%	2H×50%	0H×100%	0H×0%	0H×100%	17.5Wh	2-3 Days
6	2H×50%	4H×30%	0H×100%	TOT×20%	1H×30%	12.3Wh	3-4 Days
7	4H×80%	2H×30%	0H×100%	TOT×0%	1H×80%	16.1Wh	2-3 Days

Control	NA
Note	NA

*The table of rainy days is for reference only, the actual working days is subject to the local sunshine conditions.

Description

BL04 is an innovative LED solar bollard light which got enhanced in both aesthetic and creative. IP66 ,Mono-crystalline solar panel, UV resistant PC material, with architectural design is quite popular in pathway areas, gardens, sidewalks, building entrance and etc.

Optic Information

LED Type	LED 2835
Luminous Flux (±10%)	340lm(R03201)/ 320lm(R03202)/ 420lm(R03203)
Efficacy(4000K Ra80)	105lm/W(R03201)/ 100lm/W(R03202)/ 130lm/W(R03203)
Correlated Color Temperature	4000K (3000K, 5000K optional)
Color Rendering Index	Ra80 (Ra70 optional)
Beam Angle	R201(Type V), R202(Type IV), R203(Type V)
UGR level	NA

Key Features

- IP66 and IK07
- Unique and gorgeous appearance
- Professional Type IV / Type V lighting distribution
- High efficiency Mono-crystalline solar panel
- Long lifespan LiFePO4 battery, 8-hour charging, working 2-3 days.

Dimensions and Mount

Product Dimension	0.5m: Φ230×520mm (Φ9.06"×20.47") 0.9m: Φ230×920mm (Φ9.06"×36.22")
Luminaire Net Weight (±0.3kg/±0.66Lbs)	0.5m: 5.1kg (11.24Lbs) 0.9m:6.6kg(14.55Lbs)
Export Carton Size (All-in-one package)	Full-assembled 0.5m: 690×300×305mm (27.17"×11.81"×12") Full-assembled 0.9m: 1090×300×305mm (42.91"×11.81"×12")
Gross Weight (All-in-one package) (±0.3kg/±0.66Lbs)	Full-assembled 0.5m: 6.43kg (14.18Lbs) Full-assembled 0.9m: 8.3kg (18.3Lbs)
Export Carton Size (Separated package)	Heading: 280×280×275mm (11.02"×11.02"×10.83") Bollard 0.5m: 505×210×215mm (19.88"×8.27"×8.46") Bollard 0.9m: 915×210×215mm (36.02"×8.27"×8.46")
Gross Weight (Separated package) (±0.3kg/±0.66Lbs)	Heading: 3.46kg (7.63Lbs) Bollard 0.5m: 2.94kg (6.48Lbs) Bollard 0.9m: 4.9kg (10.8Lbs)
Mounting Option	Mounting kit with anchor bolts
Material	Aluminum alloy Polycarbonate optical lens LiFePO4 battery Mono-Crystalline solar panel
Finish	Powder coating
Fixture Color	Black (RAL 9017)
EPA	NA
IK Rating	IK07
IP Rating	IP66
Category of corrosion	C4-M

Applications

- Gardens
- Pathways
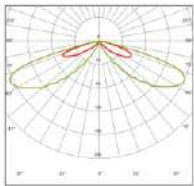- Sidewalk
- Building entrance

Lifespan and Warranty

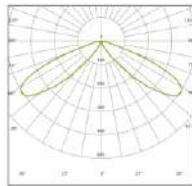| Operating Temperature		0°C to + 50°C(32°F to 122°F)
Life Time of LED @Ta=25°C		80,000hrs-L90
		169,000hrs-L80
		271,000hrs-L70
Warranty	Battery	3 Years
	Other accessories	5 Years

New Features

Please consult us for details.

Photometry

3W beam angle

R201   R202   R203
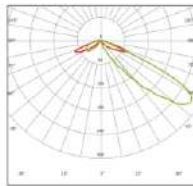
Mounting Options

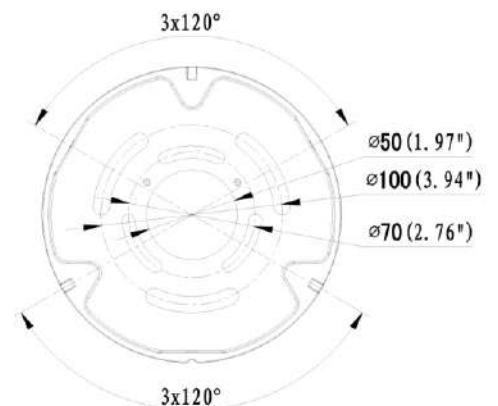Mounting kit with anchor bolts
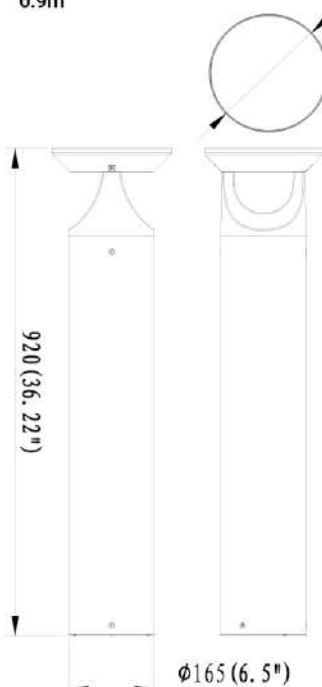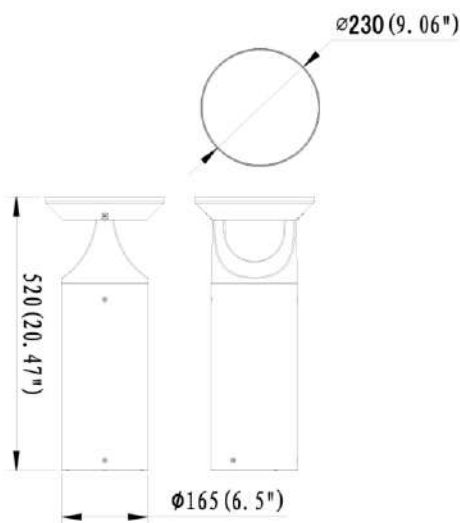

Dimensions

0.5m   0.9m   Ø230 (9.06")   Base plate templates   Unit:mm/inch

Ø230 (9.06")

520 (20.47")

Ø165 (6.5")

920 (36.22")

Ø165 (6.5")

3x120°

Ø50 (1.97")
Ø100 (3.94")
Ø70 (2.76")

3x120°

Accessories

Remote Control
Remote control for solar LED bollard light

Code: SG-Unit-32

Round House Side Shield
To reduce glare light

Code: BC-B01-01

Backfilled Anchor
Q235 +SPCC,hot dip galvanizing
Φ130x508mm.

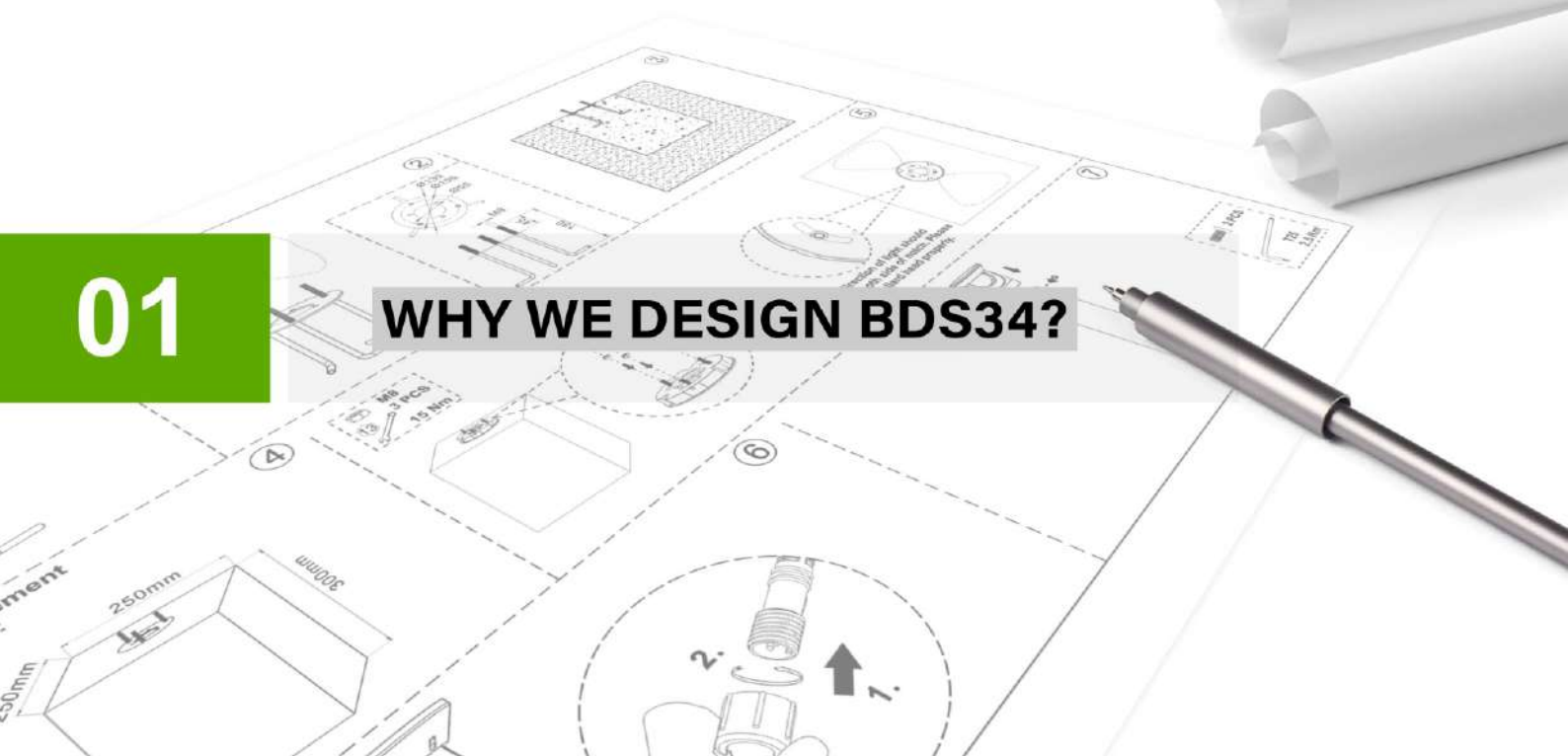Code: MT-B01-02

Solar Powered
LED Bollard

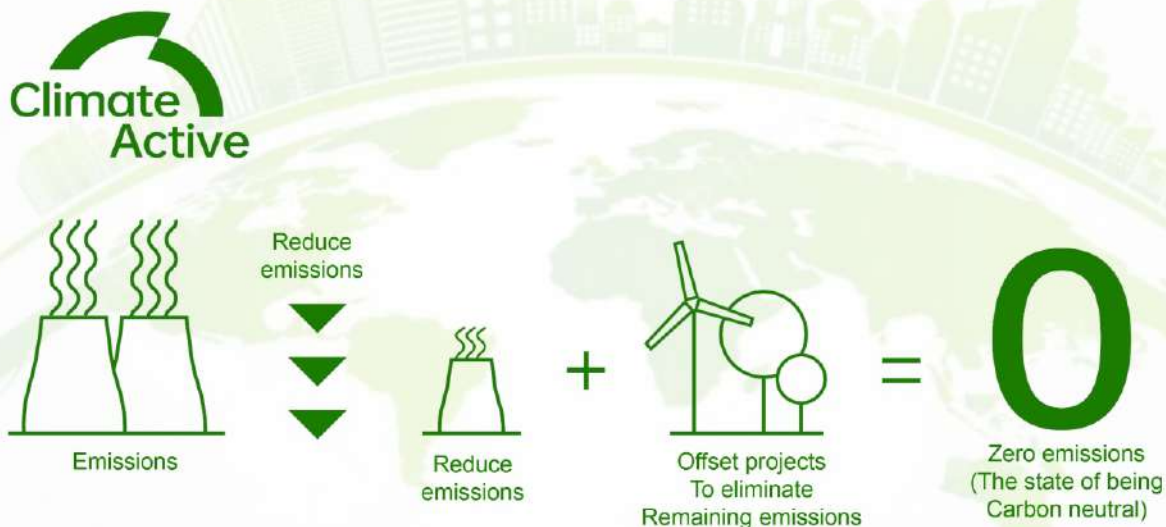|					
3W	430 LM / 430LM	IK07	IP66	LiFePo4 Battery	Mono-crystalline silicon panel

01

WHY WE DESIGN BDS34?

250mm

300mm

250mm

Carbon neutrality

What does it mean to be carbon neutral?

Companies, processes and products become carbon neutral when they calculate their carbon emissions and compensate for what they have produced via carbon offsetting projects.... Therefore, emissions that cannot be avoided locally can be offset by carbon offset projects in another location.

Climate Active

Emissions → Reduce emissions → Reduce emissions + Offset projects To eliminate Remaining emissions = **0** Zero emissions (The state of being Carbon neutral)

Why do we need it?

In 2018, the Intergovernmental Panel on Climate Change released a report concluding that to limit global warming to the 1.5 degrees Celsius set by the Paris Agreement, the world needs to stop emitting carbon dioxide, and other greenhouse gases, by 2050.

Produced emissions ↑

Reduced emissions by offsetting ↓

DARK SPACE
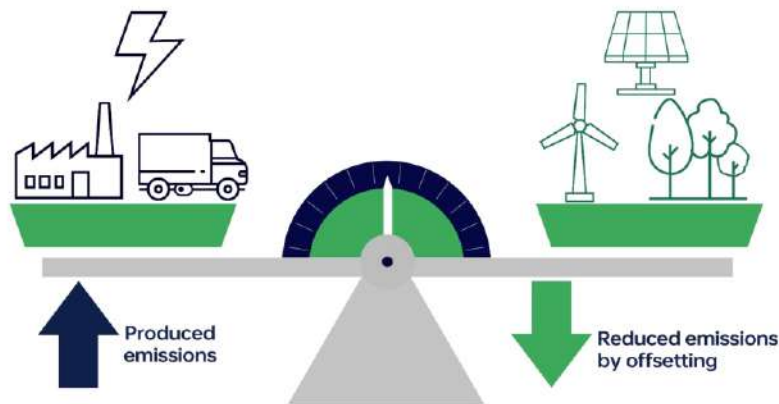
How We Do?

We actively participate in and contributes to the carbon neutral' army.

LEDs are pretty amazing, which can reduce carbon emissions if comparing with traditional lights. But we also find cheap and reliable solar engery is also very importance to environmental protection.

Then we design a lot of led solar lights, such as BDS34

02 PRODUCT INTRODUCTION

Ø100

DARK SPACE
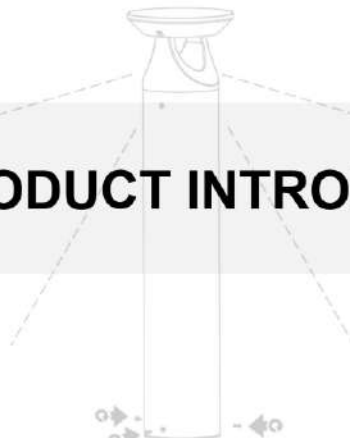
Structure

OFF GRID solar powered connectivity, no power outages, no monthly electric bills.

900mm

500mm

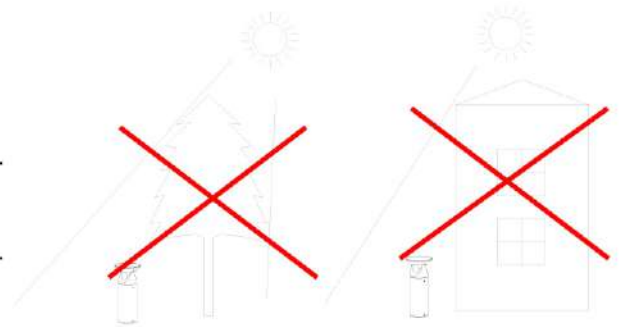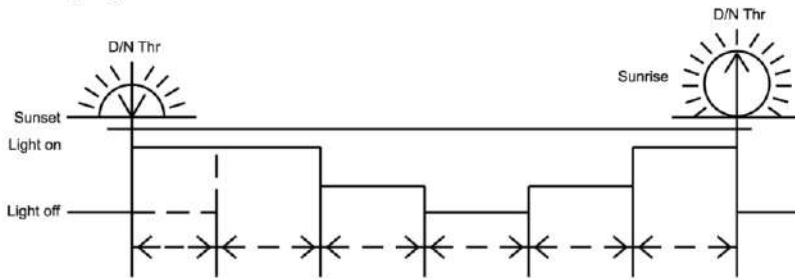|	
I.	Bollard head with solar panel.
II.	Specialized and customized optical lens: Symmetric & Asymmetric.
III.	Super Smooth design, no screws exposed. Available in two sizes : 500mm or 900mm height options.
IV.	Anchorage unit

Appearance

Wherever there's a grassland, It deserves a BDS34 bollard

BL04 Bollard Light presents a contemporary, architectural dayform providing superior uniform illumination designed to enhance urban spaces with beautiful visual appearance.

SMILING HAPPY Face"pp

DARK SPACE

Working mode

Five-stage Night Mode

Lighting scheme	Time 1	Time 2	Time 3	Time 4	Time 5	Energy consumption	Working hours in rainy days
1 (Factory default)	6H× 100%	0H× 100%	0H× 100%	TOT× 0%	1H× 30%	7.4Wh	4-5 Days

Set the modes Time 1-5 and lighting levels by remote control.

Battery capacity:38.4Wh, solar panel wattage : 5W.

Battery charging capacity:24Wh /Day.

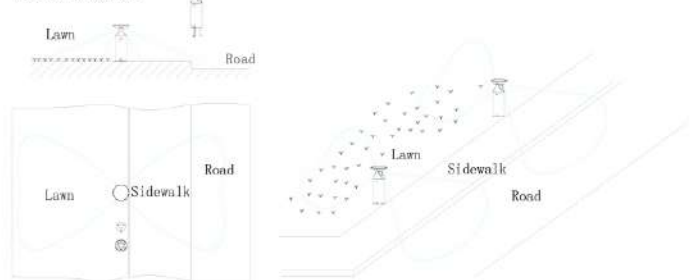Recommended battery energy consumption ≤20Wh /Day.

* Avoid being shaded by trees and buildings, or battery charging will be affected.
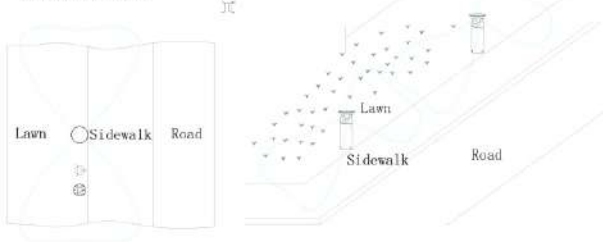
Professional optical design

Type IV & V Optic Lens

Type IV & V light distributions will be suitable for different areas.

R03201/R03203

R03201/R03203

R03202

Specification Shipping

| Model No	BDS34	
Power	3W	
Efficacy	105lm/W(R03201) /100lm/W(R03202)/ 130lm/W(R03203)	
CCT&CRI	4000K (3000K, 5000K optional)/Ra80 (Ra70 optional)	
Beam angle	R03201(Type V)/R03202(Type IV)/R03203(Type V)	
IP&IK rating	IP66/IK07	
Chips	LED 2835	
Battery	LiFePO4 battery	
Operating temperature	0℃ to +50℃(32° F to 122° F)	
Certificate	CE/CB	
Dimension	Φ230×520mm(Φ9.06"×20.47")	Φ230×920mm(Φ9.06"×36.22")
Net weight	5.1±0.3kg(11.24±0.66Lbs)	6.6±0.3kg(14.55±0.66Lbs)

Installation
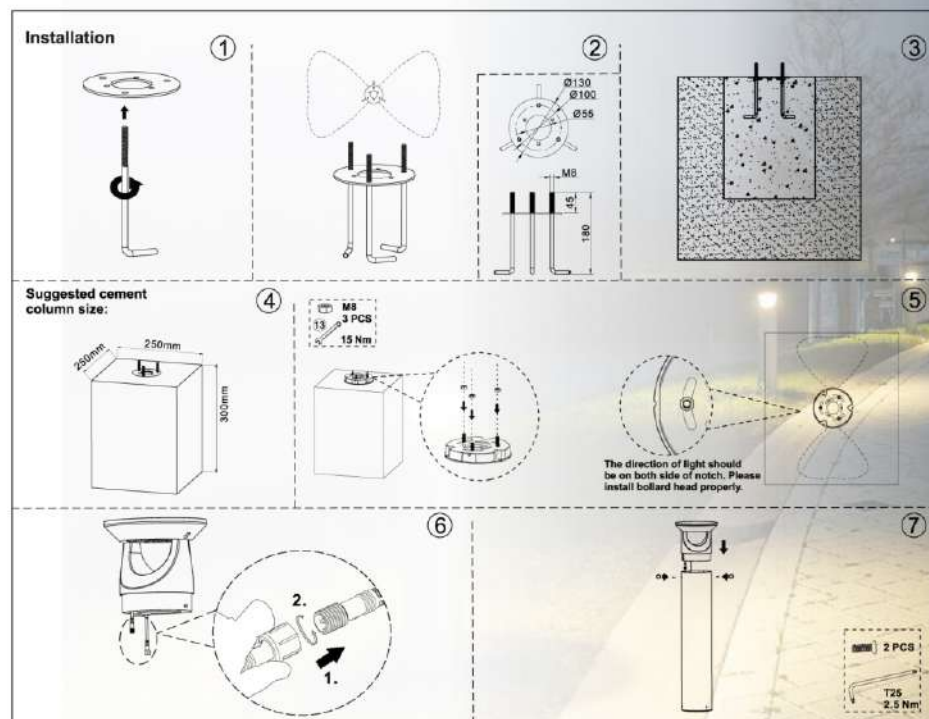
BL04 comes with standard steel anchor bolt kit. Available with a durable internal base plate for use in urban areas or for a clean look in installations. Please refer to Product Installation Instruction for detailed steps.
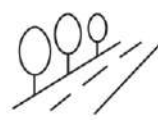
Application
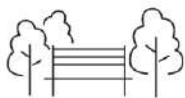
Park, Garden

Industrial Park

Amusement Park

Pedestrian Street

Residential Quater

Urban Light Family

Our principle is multifunction, differentiation and customization.

SP09

ST06

PST03

PST02
Direct

PST02
Indirect

BDS34

BD33

BD31

DARK SPACE

Renaissance International Solutions

Display Center:
B 50/1 Site-4 Industrial Area,
Sahibabad Ghaziabad, U.P. India 201010

Registered Office:
CP-528, Transport Nagar Lucknow, U.P. India 226012

www.DarkSpace.in