

K-LITE

India's Lighting Company



Lucy - Smart Lighting Pole

TECHNICAL INFORMATION

Supporting



VISION

“ A city can deliver good quality services to all its customer through the use of smart city pole, in a cost and resource effective way”.

The key aspects in this definition of a smart city are as follows:

A smart city pole provides the services, e.g. the Physical and Social infrastructure that is world class, to its residents.

The smart city pole should be able to provide these services to all customer regardless of where they are and what is their economic or social status.

The usage of the Smart City Pole would be a key enabler in providing services anytime and anywhere.

The technology would enable the efficiency and cost reduction in the provision of the services.

Public spending is reduced in the long term on public infrastructure in smart city, in electricity high speed internet connectivity and incident reporting etc.

The efficiency of public services and their quality leads to higher satisfaction quotient in the citizens which in turn leads to effective utilization of services provided.

Enables better decision making for identification and enhancement of the city boundaries or inclusion of new services / infrastructure requirements in the city limits.

Real time information availability - enhances citizen awareness about the city they live in by providing information update in real time and equipping them to make informed decisions.

Intelligent networks of people, mobiles, sensors

Increased public safety through efficient management of public emergency systems, video surveillance and other hazard prevention and detection.





Lucy - Smart Lighting Pole

The concept of smart cities came into being as a consequential development to internet of things (IoT), digital connectivity, global warming and the compelling necessities for energy saving. More than 50 % of the world's population lives in cities, A city environment, with a closely knit street light network became a natural choice for a smart city concept, hosting sensor networks and wireless communications for traffic control, smart parking, noise and air quality monitoring, incident detection, and more. Smart city lights are not stand alone system. They have to be integrated with other systems under what is known as Internet of Things (IoT). Hence the chosen smart city light poles should be able to accommodate a full range of lighting controls compatible to remote control and integral with suitable sensors for the respective application.

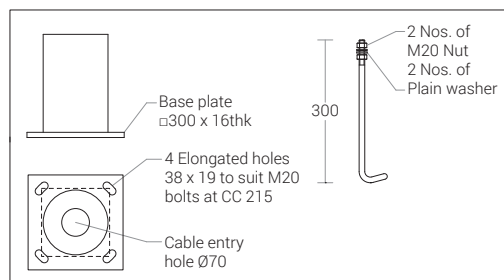
In fact, the smart city pole is going to be a service platform for various services for Network redundancy, application areas such as mobile connectivity (WLAN), traffic control, security camera (CCTV), information transfer, public announcement with loud speakers, smart parking, environmental monitoring and even the electric charger for electric cars etc.,

K-Lite proudly announces the introduction of smart city poles (Intelligent poles) with its modular solution, to cater to the above needs in the upcoming smart cities with the salient features as below :

Salient Feature of Smart City Pole

One main pole with one to five modules, Smart column is a multitude of combinations. With flexible modules, the smart column is very handy and flexible for add-on. Choose your combination, add the module, connect them together and the smart column is ready to meet your requirement.

Mounting Details



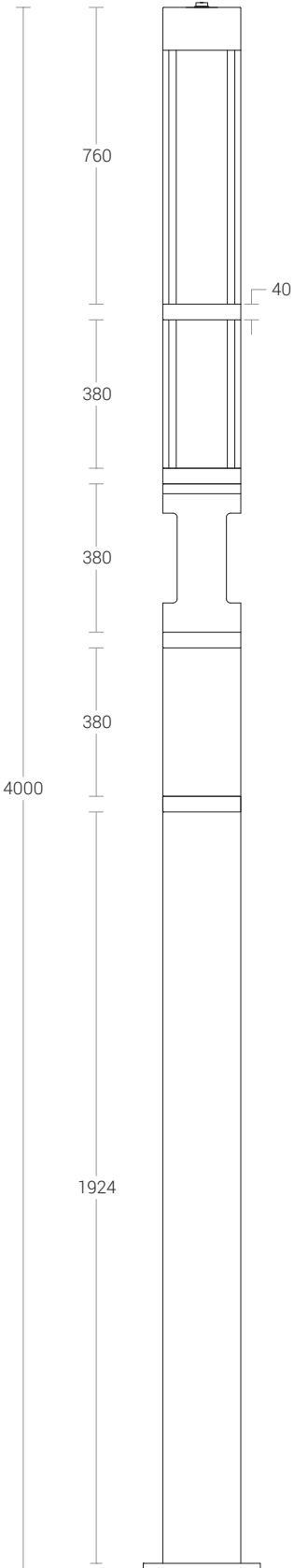
Note : All dimensions are in mm



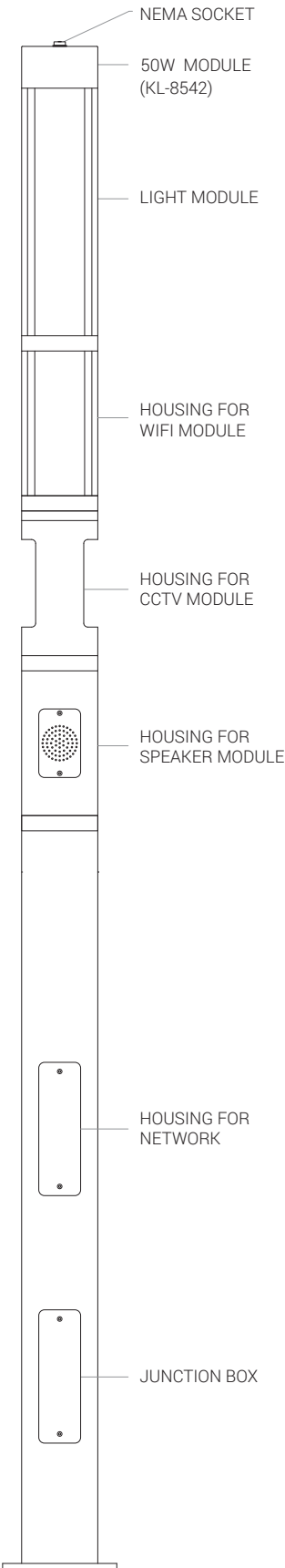
FRONT VIEW



BACK VIEW



FRONT VIEW



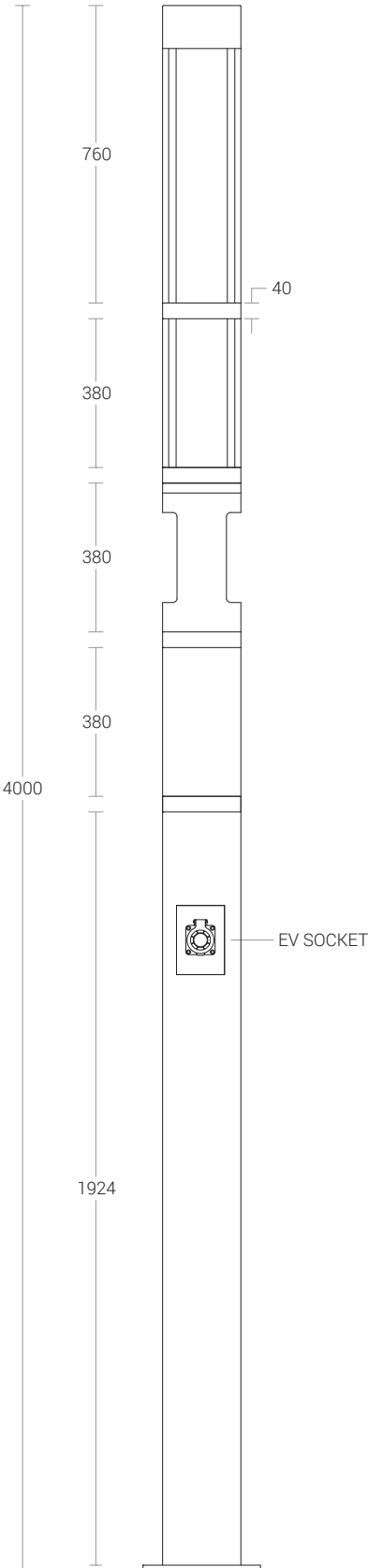
BACK VIEW



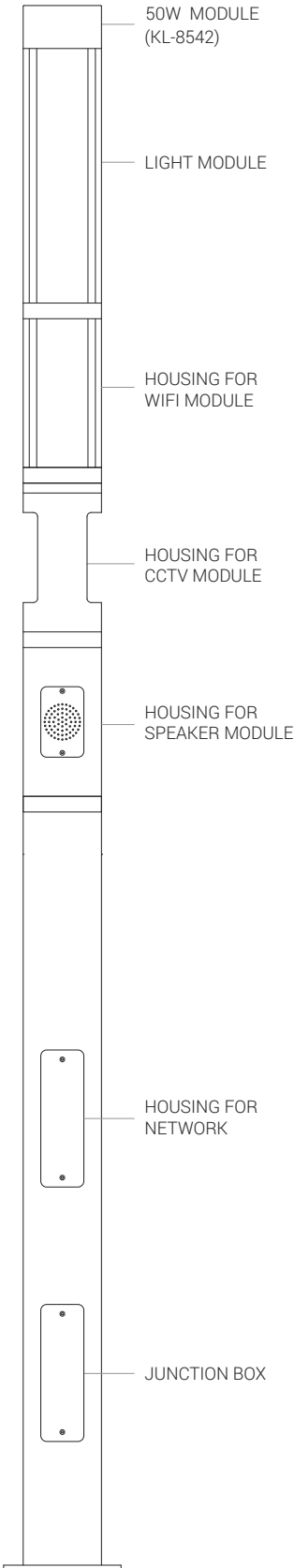
FRONT VIEW



BACK VIEW



FRONT VIEW



BACK VIEW

These luminaires offer glare free illumination on ground surface and are perfect for illuminating entrances, footpaths as well as garden and landscape architecture. Clean Lines and pure form are the underlying elements of this series of column light, designed to provide rotationally symmetrical illumination on the ground surface. Light emission 360 degree.

Product Description

- Luminaire made of die-cast aluminium (grade ADC12)
- Stainless Steel rod (304 grade)
- Non yellowing UV stabilized clear polycarbonate diffuser.
- Nema Socket
- Silicone gasket.
- Cable entries for through-wiring of mains supply cable.
- Integral constant current power supply
- CRI (Ra) : ≥ 80 (90 CRI - On Request)
- Prewired with LED driver and suitable for operating on 240V, 50Hz single phase ac supply.
- Available CCT : 2700K, 4000K, 5700K



Product Benefits

- High luminous efficiency at reduced wattage.
- Elegant, Robust design
- Quick installation and low assembly costs.
- Dark sky compliant protects pedestrians from glare, in addition to preventing spill light above the horizontal plane.
- Sustainable LED technology offers durability and optimal light output with low power consumption.

Available Finish

Pure polyester powder coated

- Graphite grey
- Anthracite grey
- Jet black





Technical Specifications

General

ID	: 4576
System Wattage	: 50W LED
Driver Integral	: Constant Current
Input Voltage	: 230-240Vac
Frequency	: 50-60 Hz
Operating Voltage	: 100-277Vac
Operating Temperature	: -15°C~+50°C

Physical

Body	: Die Cast Aluminum
Diffuser	: Clear Polycarbonate
Finish	: Powder Coated Jet black / Graphite grey / Anthracite grey

Light Source

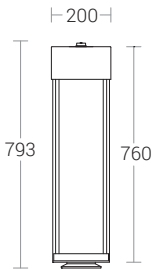
Light Source	: NICHIA
CRI (Ra)	: >80
LED Colour Temperature	: 2700K / 4000K / 5700K

Driver

Power Supply	: Integral
Power Factor	: >0.95
THD	: <10%
Surge Protection	: 6KV
Efficiency	: >85%

Optical Performance

Beam Angle	: 45°
Light Distribution	: Symmetrical



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- Integral constant current power supply
- CRI (Ra) : ≥ 80 (90 CRI - On Request)
- Prewired with LED driver and suitable for operating on 240V, 50Hz single phase ac supply.
- Available CCT : 2700K, 4000K, 5700K



Product Benefits

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Pure polyester powder coated

- Graphite grey
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Technical Specifications

General

ID	: 4741
System Wattage	: 50W LED
Driver Integral	: Constant Current
Input Voltage	: 230-240Vac
Frequency	: 50-60 Hz
Operating Voltage	: 100-277Vac
Operating Temperature	: -15°C~+50°C

Physical

Body	: Die Cast Aluminum
Diffuser	: Clear Polycarbonate
Finish	: Powder Coated Jet black / Graphite grey / Anthracite grey

Light Source

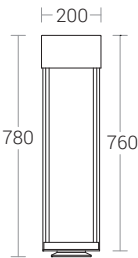
Light Source	: NICHIA
CRI (Ra)	: >80
LED Colour Temperature	: 2700K / 4000K / 5700K

Driver

Power Supply	: Integral
Power Factor	: >0.95
THD	: <10%
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Optical Performance

Beam Angle	: 45°
Light Distribution	: Symmetrical



BIS	CE	IP65	IK08	>60,000 h L70 B10	SDCM ≤ 3	100-277V
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Product Description

- Body made of die cast aluminium (grade ADC12), Stainless steel (304 grade) rod & fasteners.
- Non yellowing UV stabilized clear polycarbonate diffuser (Options available are clear / tinted / opaque).
- WIFI arrangement place inside the diffuser.
- Silicone gasket.

Note : WLAN module housing only. WLAN not in our scope of supply, it is a separate component.

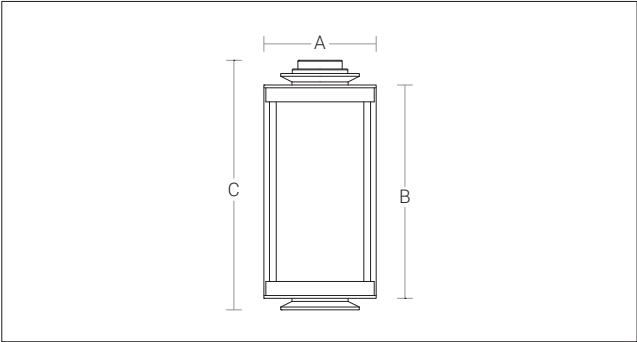
Product Benefits

- Elegant, Robust design
- Quick installation and low assembly costs.

Available Finish

Pure polyester powder coated

- Graphite grey
- Anthracite grey
- Jet black



ID	A	B	C
4744	Ø200	380	445

Product Description

- Body made of die cast aluminium (grade ADC12), Stainless steel (304 grade) rod & fasteners.
- No diffuser.
- Camera arrangement place inside (customer must provide camera fixing details).
- Silicone gasket.

Note : Camera module housing only. Camera not in our scope of supply, it is a separate component an IP65 rating camera should be installed

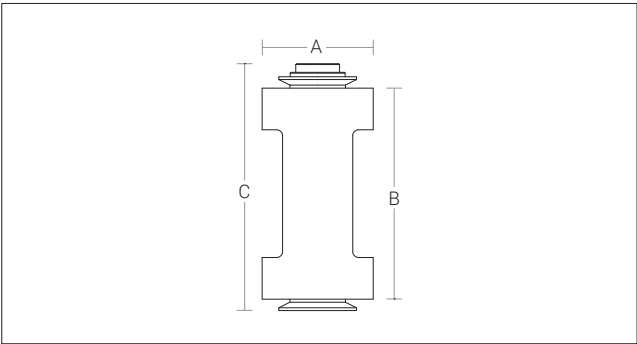
Product Benefits

- Elegant, Robust design
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Available Finish

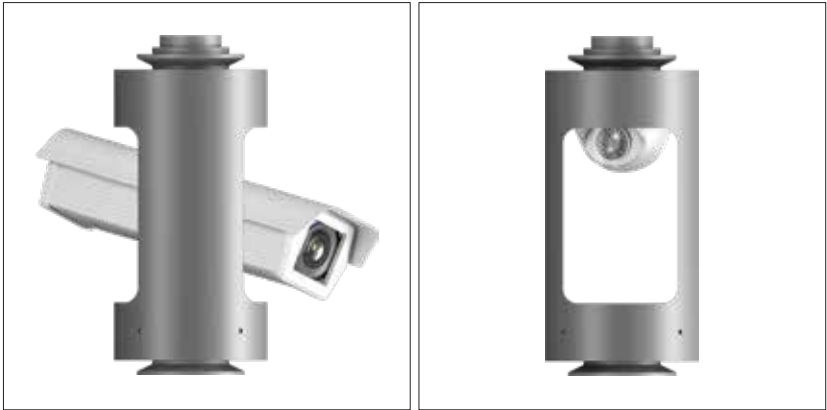
Pure polyester powder coated

- Graphite grey
- Anthracite grey
- Jet black



ID	A	B	C
4742	Ø200	380	445

Reference images



Product Description

- Body made of extruded aluminium alloy (grade 6063) with die-cast aluminium components.
- Aluminium door (grade 6063) for speaker arrangement
- Silicone gasket.

Note : Speaker module housing only. Speaker not in our scope of supply, it is a separate component.

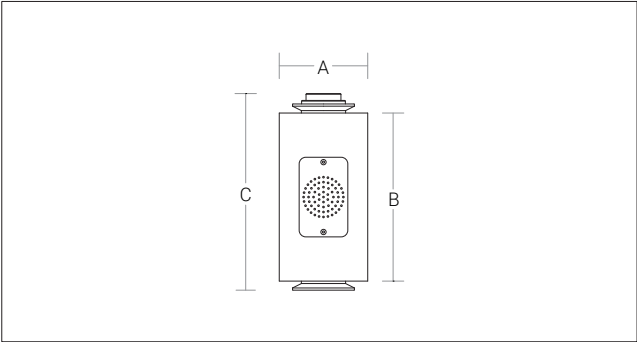
Product Benefits

- Elegant, Robust Design
- Quick installation and low assembly costs.

Available Finish

Pure polyester powder coated

- Graphite grey
- Anthracite grey
- Jet black



ID	A	B	C
4743	Ø200	380	445

Product Description

- Body made of extruded aluminium alloy (grade 6063) can achieve high strength and corrosion resistance in various atmospheric conditions.
- It is equipped with an EV socket
- Silicone gasket.
- All pipe sections are welded using high end MIG welding processes.
- The control gear tray is prewired with MCB, terminal connectors for loop-in / loop-out arrangement.
- Build-in control box with die-cast aluminium service door and safety rope.
- MS mounting plate with an anchorage unit made out of hot dip galvanised steel for extra guarantee against corrosion. Luminaire can be aligned on the mounting plate around 360°.
- Cable entries for through-wiring of mains supply cable.
- Integral power supply
- Safety class I
- Suitable for operation on 240V, 50Hz single phase ac supply.

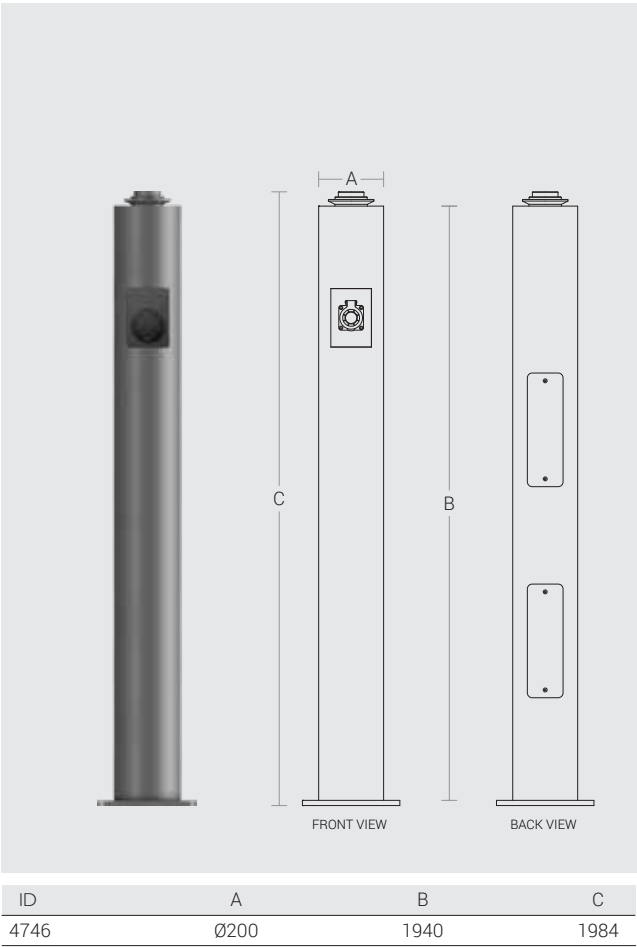
Product Benefits

- Functionally versatile, strong and stable.
- Excellent corrosion resistant.
- Quick installation and low assembly costs.
- Long life span with very low maintenance.

Available Finish

Pure polyester powder coated

- Graphite grey
- Anthracite grey
- Jet black



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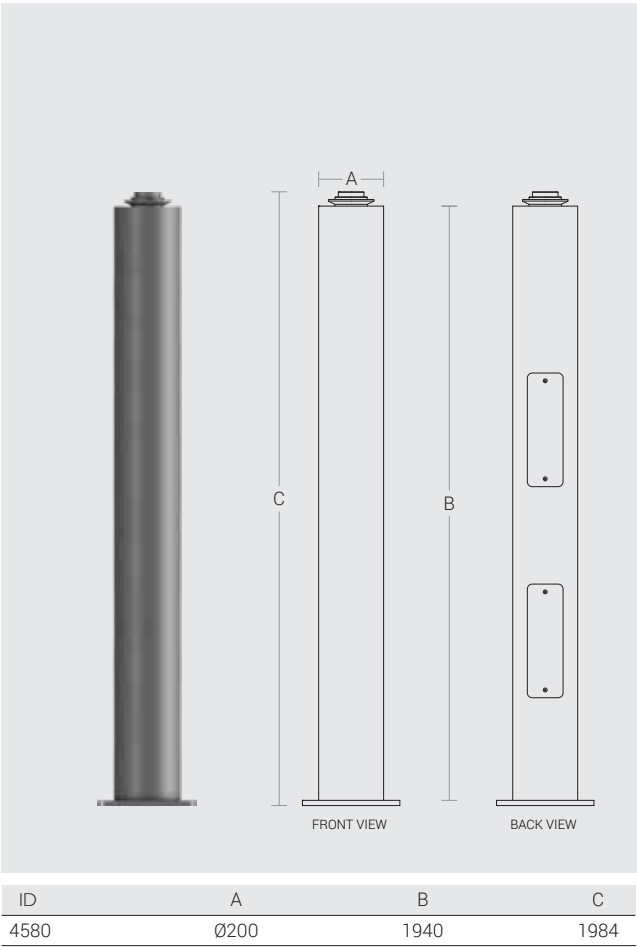
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Unit IV

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