LIGHTCONNECT™

LIGMAN
LIGHTING USA

What is a smart city?

Smart Cities are cities that improve operational efficiency and reduce costs by collecting and analyzing data. Insights from that data are then communicated through appropriate channels so that someone can act to make cities better places to live and work. From waste management to improved traffic flows, Smart Cities rely on large, distributed networks of data collection points to process and make sense of that data and ultimately deliver the optimum living experience for their communities.

What is IoT?

The Internet of Things (IoT) refers to the ever-growing network of physical objects that feature an IP address for internet connectivity, and the communication that occurs between these objects and other Internet-enabled devices and systems.

The Internet of Things (IoT) extends internet connectivity beyond traditional devices like desktop and laptop computers, smartphones and tablets to a diverse range of devices and everyday things that utilize embedded technology to communicate and interact with the external environment, all via the Internet.

Why is street lighting the backbone of IoT?

One of the biggest challenges facing any smart city that requires these large, distributed network of data collection points, is where to locate them. Every road and avenue has lighting points, evenly distributed, powered and with the potential to host a multitude of sensors and many other devices designed to collect data.

What does it take to be IoT ready?

In order to be IoT ready, any platform needs to have three basics elements:

1. Individual or multiple sensors or data collection devices
2. A local means of processing and prioritizing the most relevant data
3. A communications module that can transmit that data and receive instructions to act on that data

What is LIGMAN IoT?

LIGMAN IoT ready or LIGHTCONNECT™ is the next generation of exterior luminaires that provide the platform for deploying multiple sensors to collect data and by using the latest "sensor-ready" LED drivers, process and deliver that information to the cloud via any of the worlds most popular CMS systems providers.

LIGHTCONNECT™ promises to deliver future proof applications to any city through open protocols and industry leading standards such as Zhaga and DALI.

All LIGMAN LIGHTCONNECT™ luminaires feature multiple Zhaga Book 18 sockets for sensor inputs, the latest sensor-ready LED drivers and support for communications modules via the current NEMA 7 standard socket or by the new Zhaga Book 18 socket.

LIGHTCONNECT™ will ensure compatibility into the future and support the multitude of new and varied sensor developments that will take advantage of this simple and cost-effective
city-wide platform.

Energy efficiency and safety

- By using smart drivers and sensors, lighting conditions can be optimized for any given condition such as pedestrian crossing areas, special events and low occupancy areas
- Huge energy savings are possible through reduced lighting conditions in areas with low occupancy
- Safety is ensured with real time light level changes according to any dynamic situation
- The lifetime of the luminaires is also increased providing long term peace of mind

City wise

- LIGMAN's luminaires are compatible with all major lighting control systems
- The IoT ready luminaires can be easily integrated into existing systems and can work with other similar IoT ready devices and luminaires
- Compatible with third-party devices and sensors
- Ready for all major wireless control systems such as LoRaWAN, NB-IoT, Zigbee etc.

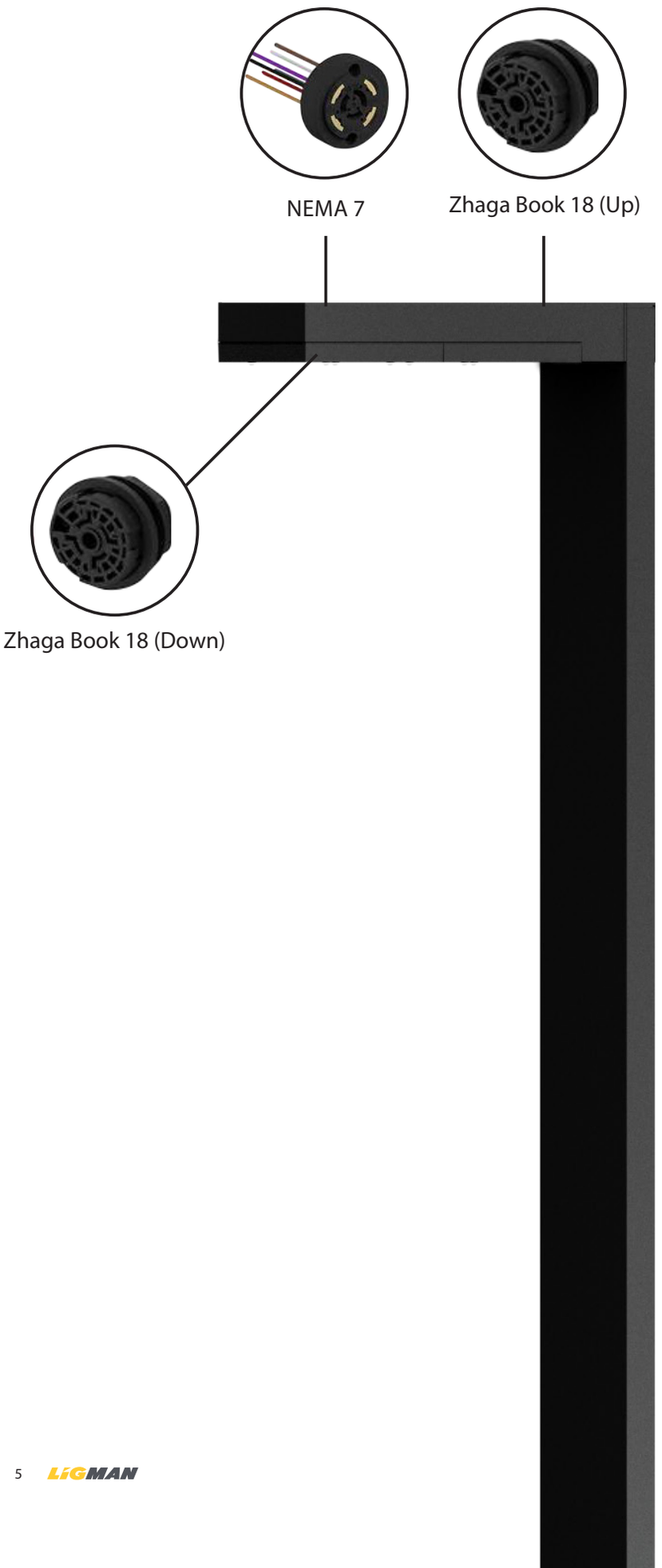
Neural networks

- Self healing mesh network, if one luminaire stops working, the network finds another wireless route
- Learning curve, drivers learn through on/off cycles and adapt low power settings
- Motion sensors, daylight sensors, vibration, inclination and Bluetooth sniffer provide the eyes and ears to the network
- Sensors provide information across the whole network, allowing for real time multiple lighting conditions

Future proof design

- The IoT ready luminaires are designed for future developments
- The cost of retrofitting hundreds if not thousands of luminaires can be very high
- Future proof products provide the ability to easily add on sensors and monitoring devices to the network
- Easy plug and play installation means quick installations and minimal commissioning

IoT ready luminaire example



Whilst all new products will be IoT ready, there are many luminaires within the existing LIGMAN range that have already been adapted to support the LIGHTCONNECT™ concept. The LIGHT LINEAR PT range of decorative solutions is a perfect example of how easy it is to integrate new drivers and multiple sockets, allowing clients to benefit immediately from smart city initiatives or in the future as more and more options become available.

Sockets

NEMA 7

Specification
- US National Electrical Manufacturers Association
- Diameter 65 x 40mm high
- 0-480V AC
- 50/60Hz
- AWG#4, 15 Amp
- -40ºC to 70ºC

Zhaga Book 18

Specification
- Zhaga Standard
- Diameter 30 x 10mm high
- 24V DC
- 4 Pin design

Compatibility

When choosing a luminaire, clients need to make sure that whatever control systems they decide to use in the end are fully supported, the exact same is true for sensors and other hardware accessories for widely diverse applications.

Software

NEMA 7 is the current global standard for the controls interface from the market leaders. LIGHTCONNECT™ fully supports NEMA 7 via DALI and optionally, Zhaga Book 18 for those manufacturers that have already embraced this new concept.

Itron Telensa TVILIGHT Telematics Wireless

Hardware

LIGMAN fully supports the latest ZD4i architecture meaning that DALI 2.0 compliant drivers are used inside and Zhaga Book 18 sockets are on the outside. With more choices becoming available from the driver market and hardware suppliers.

Citintelly LIGHT FOR THE SMART CITY

NEMA National Electrical Manufacturers Association

Zhaga

OSRAM DEXAL®

nedap

Lucy zodion

NAS Nordic Automation Systems

DALI 2

ZD4i

SR CERTIFIED

LIGHTCONNECT™ Outdoor

STREET & AREA LIGHTING LUMINAIRES

BILLUND

LIGHT LINEAR PT

STEAMER

HAMILTON

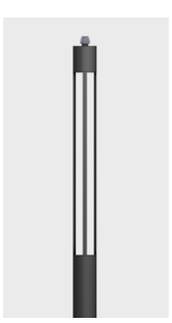
POST TOP LUMINAIRES

ABERDEEN

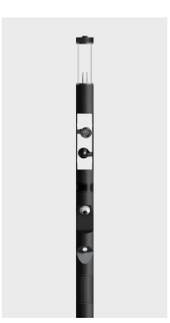
MACARON

LIGHT COLUMN

ARIZONA


BENTON

VANCOUVER


L-COLUMN

Accessories

A91091
WiFi

A91191
180° Camera

A91291
Speaker

A91391
Intercom

A91491
EV Charger

A91591
Round Power
Plug

A91791
Square Power
Plug

A91691-L2
Motion Sensor
(Up to 3 meters)

A91691-L7
Motion Sensor
(Up to 12 meters)

BILLUND

Street & area lighting luminaires LIGHTCONNECT™

IP66 IK09

Innovative, high-performance, sustainable street and area lighting family. Future proof solutions offering flexible glare-controlled optic options, high efficacies, robust environmental protection and a slim attractive profile

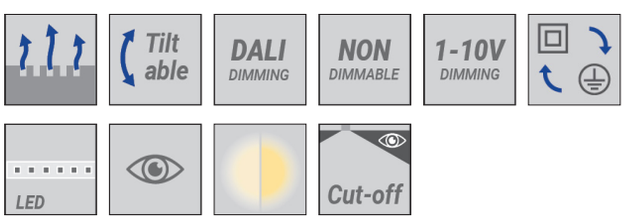
Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

Luminaire Structure

- Die-cast aluminium housing pre-treated before powder coating ensuring high corrosion resistance
- Thermal heat dissipation body
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- High-efficiency polycarbonate lens
- Clear toughened glass
- Surge protection 10kV

Feature symbols



Light symbols

Product code guide

UBIU-90001-LC - T2 - W30 - SC60 - A90891-U

- T2: Optic
- W30: Colour
- SC60: Spigot
- A90891-U: Accessory

Tenon
SC42-48 – Dia. 1.6"- 1.8"
SC60 – Dia. 2.3".
SC76 – Dia. 3"

Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

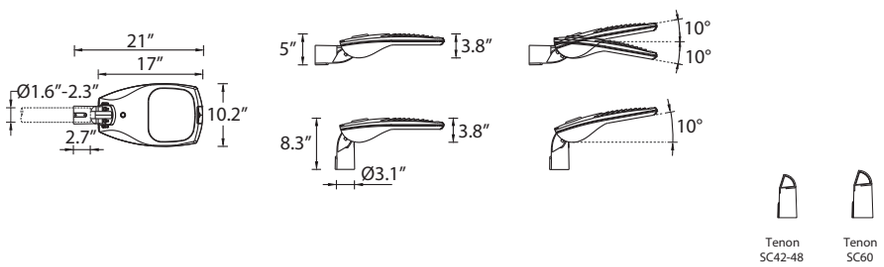
	Product code	Lamp	Power	Lumen	EEC	Optic				CCT	Dimming type
						T2	T3	T4	T5		
Small											
BILLUND 1	UBIU-90001-LC	36 LED	20 W	2880 lm	A++	150°x75°	137°x71°	102°x66°	121°x87°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90002-LC	36 LED	40 W	5926 lm	A++	150°x75°	137°x71°	102°x63°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90003-LC	36 LED	60.9 W	8567 lm	A++	150°x66°	149°x100°	103°x64°	117°x100°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90004-LC	36 LED	76.2 W	10863 lm	A++	151°x65°	135°x61°	102°x63°	76°x123°	W 27 | 30 | 35 |40	ND | DI | DA
Medium											
BILLUND 2	UBIU-90011-LC	96 LED	82 W	11554 lm	A++	151°x65°	135°x61°	102°x63°	76°x123°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90012-LC	96 LED	102.7 W	15352 lm	A++	150°x73°	134°x67°	111°x65°	116°x99°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90013-LC	96 LED	122.6 W	17060 lm	A++	153°x97°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90014-LC	96 LED	152 W	21151 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90015-LC	96 LED	201 W	26532 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
Large											
BILLUND 3	UBIU-90021-LC	96 LED	201 W	20824 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90022-LC	96 LED	181 W	24797 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90023-LC	96 LED	198 W	27126 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90024-LC	144 LED	243 W	33291 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA
	UBIU-90025-LC	144 LED	284 W	38908 lm	A++	140°x63°	133°x66°	111°x65°	92°x121°	W 27 | 30 | 35 |40	ND | DI | DA

BILLUND Street & area lighting luminaires LIGHTCONNECT™

	NEMA 7 A90891	Zhaga Book 18 (Up) A90991-U
UBIU-90001-LC	•	•
UBIU-90002-LC	•	•
UBIU-90003-LC	•	•
UBIU-90004-LC	•	•
UBIU-90011-LC	•	•
UBIU-90012-LC	•	•
UBIU-90013-LC	•	•
UBIU-90014-LC	•	•
UBIU-90015-LC	•	•

	NEMA 7 A90891	Zhaga Book 18 (Up) A90991-U
UBIU-90021-LC	•	•
UBIU-90022-LC	•	•
UBIU-90023-LC	•	•
UBIU-90024-LC	•	•
UBIU-90025-LC	•	•

BILLUND 1



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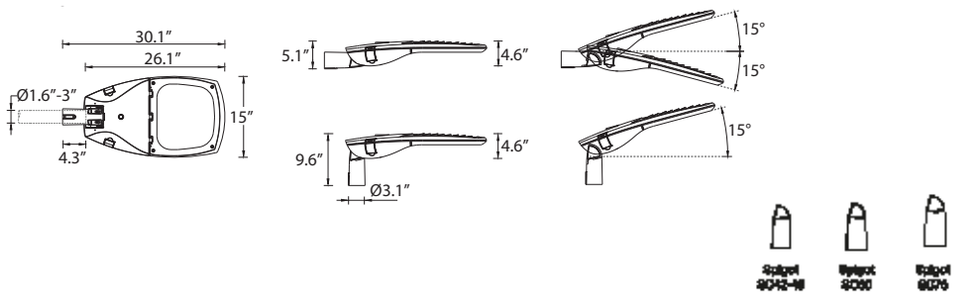

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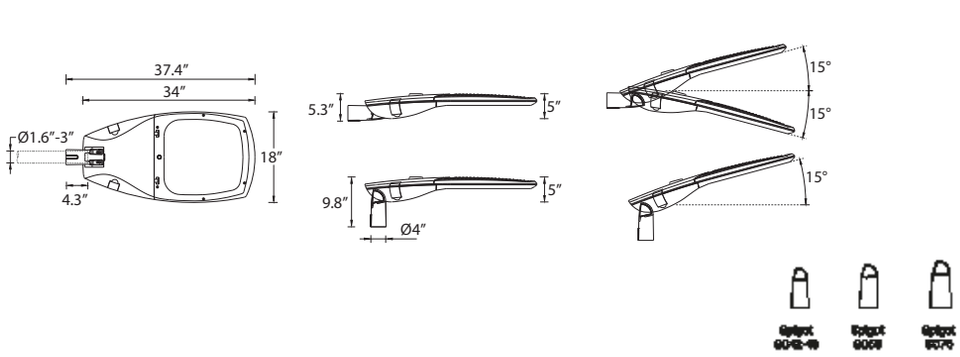
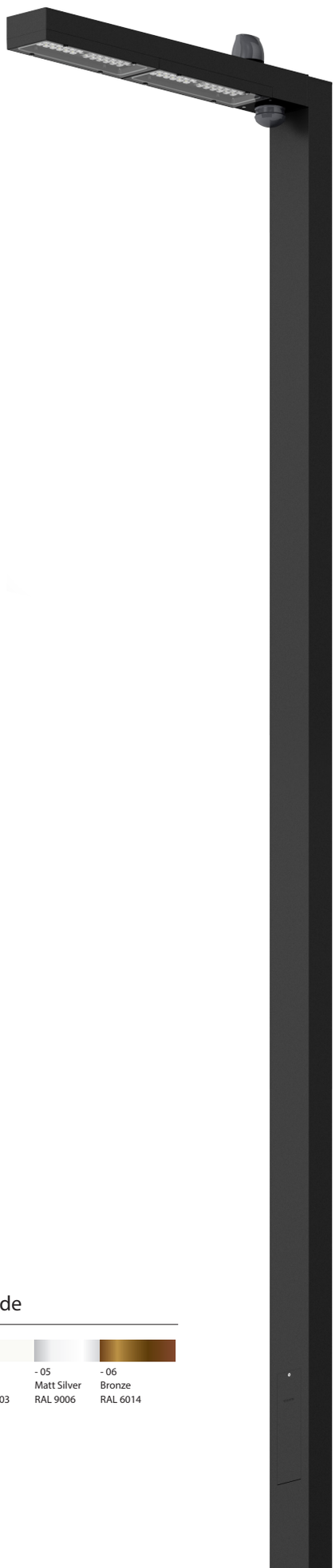


LIGHT LINEAR PT

Street & area lighting luminaires LIGHTCONNECT™



IP65 IK08

Public realm contemporary column family. Stylish but technically precise area lighting solutions as part of a large flexible family.

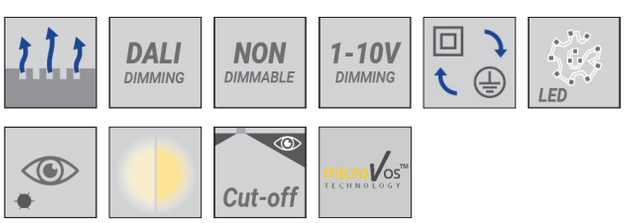
Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

Luminaire Structure

- Die-cast aluminium housing and extruded aluminium column pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- Clear toughened glass
- Maximum wind load resistance is 100 km/h
- Surge protection 10kV

Feature symbols



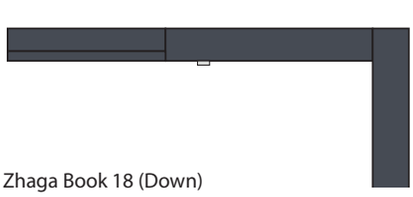
Light symbols

T2 T3 T4

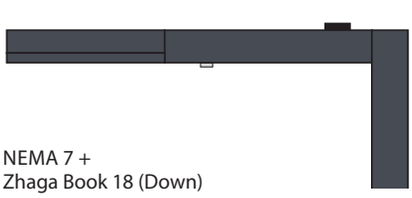
Configurations

NEMA 7

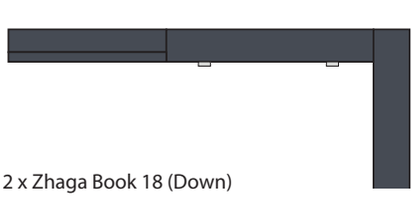
Zhaga Book 18 (Up)



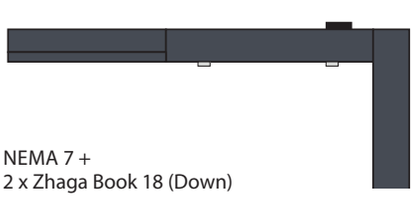
Zhaga Book 18 (Down)



NEMA 7 +
Zhaga Book 18 (Down)



2 x Zhaga Book 18 (Down)



NEMA 7 +
2 x Zhaga Book 18 (Down)

LIGHT LINEAR PT Street & area lighting luminaires LIGHTCONNECT™

Product code guide

ULI-21231-LC - T4 - W30 - DI - A20891 - A90191-L2 - APC130090-PT7-LI21231

- Optic
- Colour
- Dim Type
- Accessory 1
- Accessory 2

Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

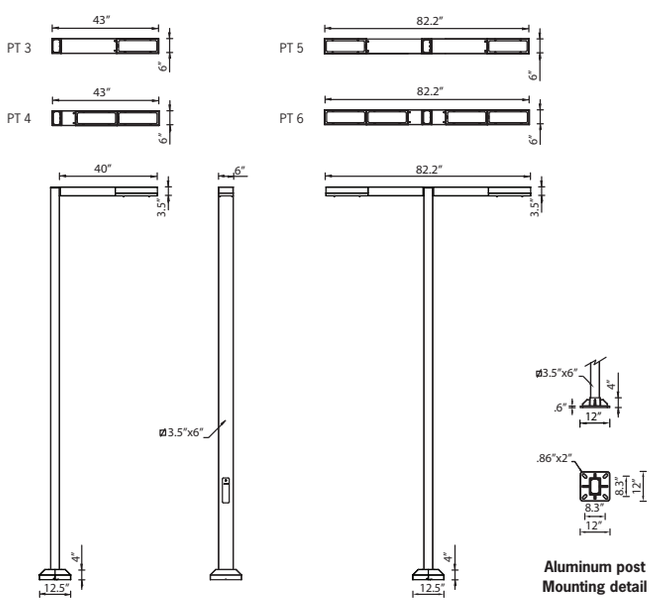
Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

	Product code	Lamp	Power	Lumen	EEC	Optic			CCT	Dimming type
						T2	T3	T4		
Single Head										
LIGHT LINEAR PT 3	ULI-21171-LC	24 LED	54 W	6193 lm	A+	140°x47°	134°x68°	92°x78°	W 27 | 30 | 35 |40	ND | DA
	ULI-21173-LC	24 LED	82 W	8448 lm	A+	139°x53°	132°x70°	91°x75°	W 27 | 30 | 35 |40	ND | DI | DA
LIGHT LINEAR PT 4	ULI-21172-LC	48 LED	105 W	12518 lm	A+	139°x47°	132°x68°	98°x73°	W 27 | 30 | 35 |40	ND | DI | DA
	ULI-21291-LC	48 LED	155 W	16891 lm	A+	139°x53°	132°x70°	91°x75°	W 27 | 30 | 35 |40	ND | DI | DA
Double Head										
LIGHT LINEAR PT 5	ULI-21181-LC	2 x 24 LED	2x54 W	2x6193 lm	A+	140°x47°	134°x68°	92°x78°	W 27 | 30 | 35 |40	ND | DI | DA
	ULI-21183-LC	2 x 24 LED	2x82 W	2x8448 lm	A+	139°x53°	132°x70°	91°x75°	W 27 | 30 | 35 |40	ND | DI | DA
LIGHT LINEAR PT 6	ULI-21182-LC	2 x 48 LED	2x105 W	2x12518 lm	A+	139°x47°	132°x68°	98°x73°	W 27 | 30 | 35 |40	ND | DI | DA
	ULI-21321-LC	2 x 48 LED	2x155 W	2x16891 lm	A+	139°x53°	132°x70°	91°x75°	W 27 | 30 | 35 |40	ND | DI | DA

	NEMA 7	Zhaga Book 18 (Up)	Zhaga Book 18 (Down)	Motion sensor (Up to 3 meters)	Motion sensor (Up to 12 meters)
	A90891	A90991-U	A90991-D	A91691-L2	A91691-L7
ULI-21171-LC	•	•	•	•	•
ULI-21173-LC	•	•	•	•	•
ULI-21172-LC	•	•	•	•	•
ULI-21291-LC	•	•	•	•	•
ULI-21181-LC	•	•	•	•	•
ULI-21183-LC	•	•	•	•	•
ULI-21182-LC	•	•	•	•	•
ULI-21321-LC	•	•	•	•	•

LIGHT LINEAR PT 3 & 4

LIGHT LINEAR PT 5 & 6



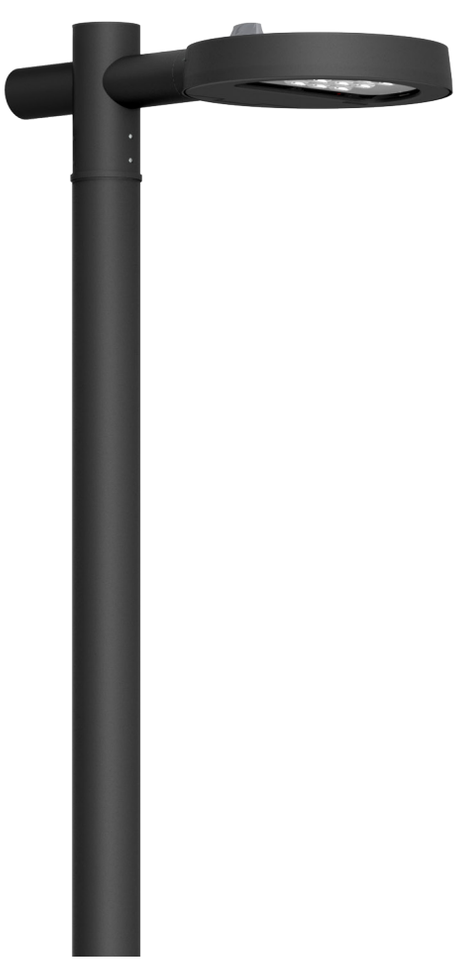
Aluminum post Mounting detail

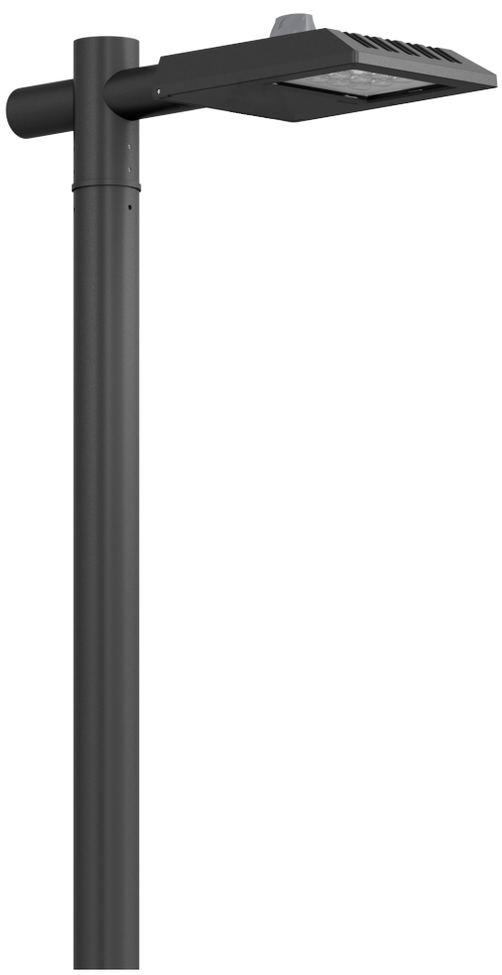
STEAMER

Street & area lighting luminaires LIGHTCONNECT™

IP66 IK08

Column-mounted contemporary area lighting family.
Modern and powerful high-end column range using optimum-quality area floodlights.





Luminaire color code

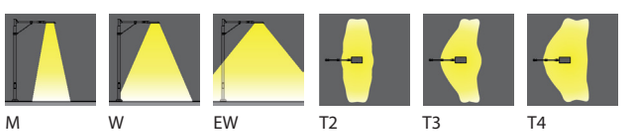
- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

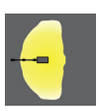
Luminaire Structure

- Die-cast aluminium housing pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- Clear toughened glass
- Surge protection 10kV

Feature symbols

Light symbols




ME

STEAMER Street & area lighting luminaires LIGHTCONNECT™

Product code guide

USE-90002-LC - T3 - W40 - DI - SC60 - A91060 - A90891-U

- T3: Optic
- W40: Colour
- DI: Dim Type
- SC60: Spigot
- A91060: Accessory 1
- A90891-U: Accessory 2

Tenon
SC60 – Dia. 2.3″

Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

	Product code	Lamp	Power	Lumen	EEC	Optic							CCT	Dimming type
						M	W	EW	T2	T3	T4	ME		
Rectangular - Medium														
STEAMER 1	USE-90002-LC	2 x 24 LED	105 W	13401 lm	A++	30°	57°	105°x115°	136°x51°	119°x86°	102°x74°	137°x58°	W 27 | 30 | 35 |40	ND | DI | DA
Rectangular - Large														
STEAMER 2	USE-90012-LC	4 x 24 LED	209 W	27111 lm	A++	30°	57°	105°x115°	136°x51°	119°x86°	102°x74°	137°x58°	W 27 | 30 | 35 |40	ND | DI | DA
Round - Medium														
STEAMER 11	USE-90022-LC	2 x 24 LED	105 W	13401 lm	A++	30°	57°	105°x115°	136°x51°	119°x86°	102°x74°	137°x58°	W 27 | 30 | 35 |40	ND | DI | DA
Round - Large														
STEAMER 12	USE-90032-LC	4 x 24 LED	209 W	27111 lm	A++	30°	57°	105°x115°	136°x51°	119°x86°	102°x74°	137°x58°	W 27 | 30 | 35 |40	ND | DI | DA

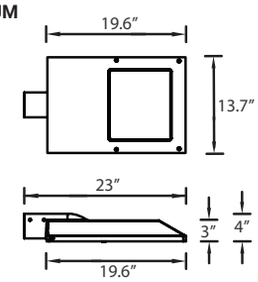
	NEMA 7	Zhaga Book 18 (Up)	Zhaga Book 18 (Down)	Single arm mount	Double arm mount
	A90891	A90991-U	A90991-D	A91060	A91160
USE-90002-LC	•	•	•	•	•
USE-90012-LC	•	•	•	•	•
USE-90022-LC	•	•	•	•	•
USE-90032-LC	•	•	•	•	•

	Single arm mount	Double arm mount	Single arm mount	Double arm mount	Single adjustable 60°	Double adjustable 60°
	A91260	A91360	A91460	A91560	A91660	A91760
USE-90002-LC	•	•	•	•	•	•
USE-90012-LC	•	•	•	•	•	•

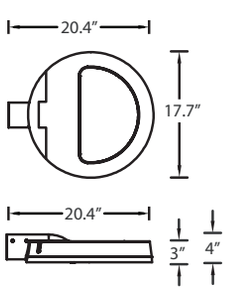
STEAMER RECTANGULAR

STEAMER ROUND

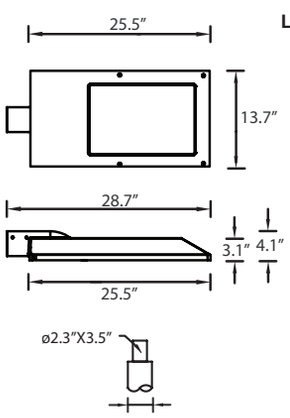
STEAMER RECTANGULAR
MEDIUM



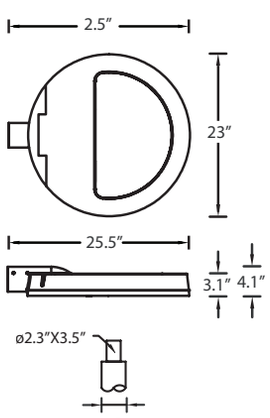
STEAMER ROUND
MEDIUM



STEAMER RECTANGULAR
LARGE



STEAMER ROUND
LARGE



HAMILTON

Street & area lighting luminaires LIGHTCONNECT™

IP66 IK07

Classic urban neighbourhood post top luminaire family.
Timeless lines coupled with unparalleled build quality,
flexibility and performance.

Luminaire color code

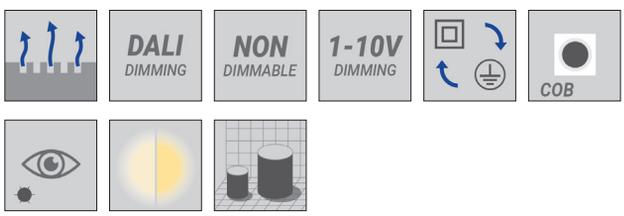
- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

HAMILTON Street & area lighting luminaires LIGHTCONNECT™

Luminaire structure

- Die-cast aluminium housing pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- Opal glass diffuser

Feature symbols



Light symbols

T2 T3 T4 T5 ME

Product code guide

UHAM-20001-LC - T4 - W30 - DI - A90891-U

Optic | Colour | Dim Type | Accessory

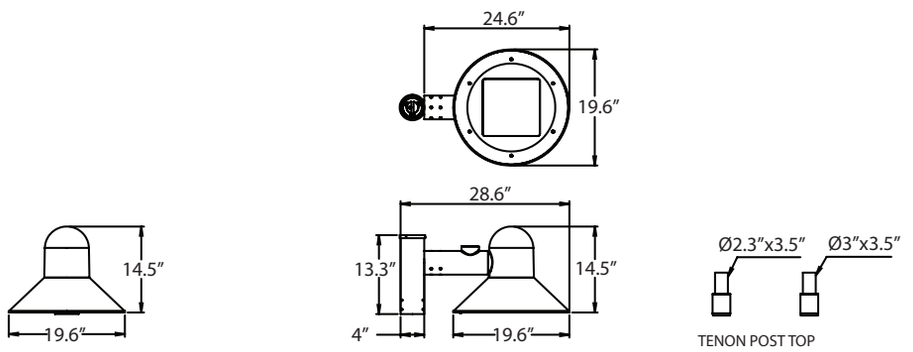
Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

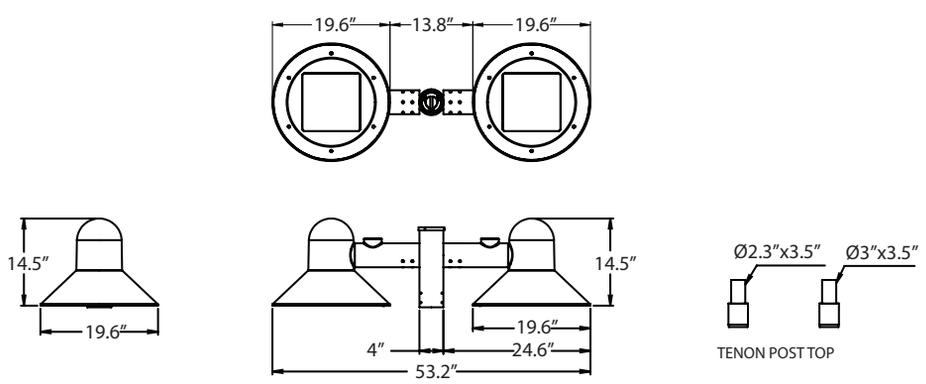
	Product code	Lamp	Power	Lumen	EEC	Optic					CCT	Dimming type
						T2	T3	T4	T5	ME		
1 side												
HAMILTON 1	UHAM-20001-LC	24 LED	53 W	6242 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
	UHAM-20002-LC	48 LED	75 W	8949 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
2 sides												
HAMILTON 2	UHAM-20011-LC	2 x 24 LED	2x53 W	2x6242 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
	UHAM-20012-LC	2 x 48 LED	2x75 W	2x8949 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
1 side - Shepherd's crook												
HAMILTON 3	HAM-20021-LC	24 LED	53 W	6242 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
	HAM-20022-LC	48 LED	75 W	8949 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
2 sides - Shepherd's crook												
HAMILTON 4	UHAM-20031-LC	2 x 24 LED	2x53 W	2x6242 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA
	UHAM-20032-LC	2 x 48 LED	5x75 W	2x8949 lm	A++	142° x 53°	141° x 69°	102° x 78°	120° x 140°	137° x 58°	W 27 | 30 | 35 |40	ND | DI | DA

	NEMA 7 A90891	Zhaga Book 18 (Up) A90991-U	Zhaga Book 18 (Down) A90991-D
UHAM-20001-LC	•	•	•
UHAM-20002-LC	•	•	•
UHAM-20011-LC	•	•	•
UHAM-20012-LC	•	•	•
UHAM-20021-LC	•	•	•
UHAM-20022-LC	•	•	•
UHAM-20031-LC	•	•	•
UHAM-20032-LC	•	•	•

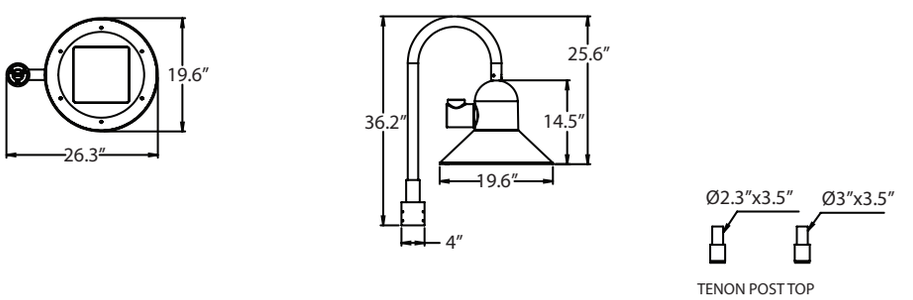
HAMILTON 1



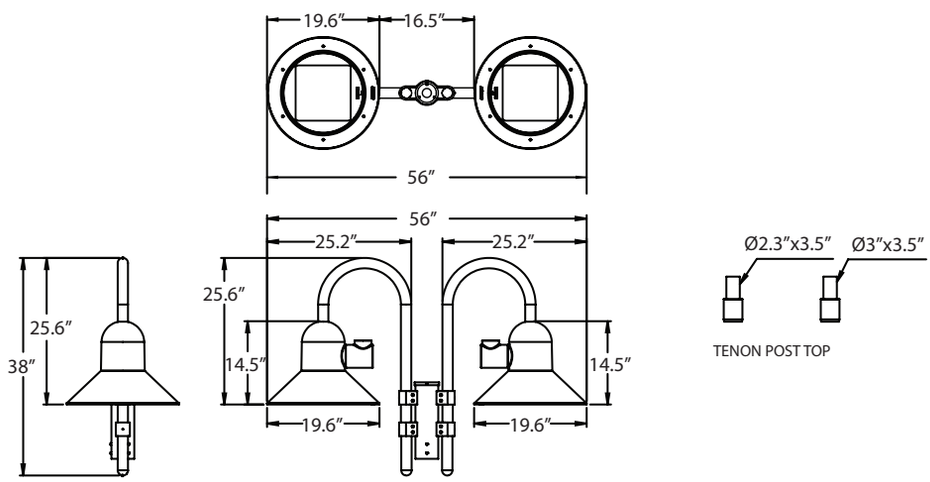
HAMILTON 2



HAMILTON 3



HAMILTON 4



ABERDEEN

Post top luminaires LIGHTCONNECT™

IP65 IK08

Sophisticated, yet robust, public realm area-lighting post top. High IP and IK resistance with elegant lines and commanding technical optical performance choices to meet any lighting brief.

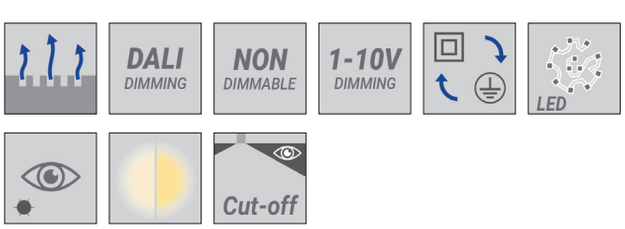
Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

Luminaire Structure

- Die-cast aluminium housing pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- High-efficiency PMMA lens
- Clear, acrylic PMMA diffuser

Feature symbols



Light symbols

ABERDEEN Post top luminaires LIGHTCONNECT™

Product code guide

UABA-20011-LC - T2 - W40 - DA - SC60 - A90891-U

Optic | Colour | Dim Type | Spigot | Accessory

Tenon
SC60 – Dia. 2.3"
SC76 – Dia. 3"

Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

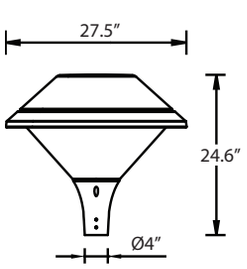
Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

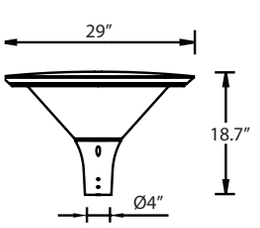
	Product code	Lamp	Power	Lumen	EEC	Optic				CCT	Dimming type
						T2	T3	T4	T5		
Top Ø27.5"											
ABERDEEN 1	UABA-20001-LC	6 x 4 LED	50 W	6301 lm	A++	142°x59°	142°x72°	102°x63°	119°x147°	W 27 | 30 | 35 |40	ND | DI | DA
	UABA-20002-LC	6 x 4 LED	60 W	8078 lm	A++	142°x59°	142°x72°	102°x63°	119°x147°	W 27 | 30 | 35 |40	ND | DI | DA
Top Ø29.1"											
ABERDEEN 2	UABA-20011-LC	6 x 4 LED	50 W	6301 lm	A++	142°x59°	142°x72°	102°x63°	119°x147°	W 27 | 30 | 35 |40	ND | DI | DA

	NEMA 7 A90891	Zhaga Book 18 (Up) A90991-U
ABA-20001-LC	•	•
ABA-20002-LC	•	•
ABA-20011-LC	•	•

ABERDEEN 1

ABERDEEN 2





Tenon Post top

Tenon Post top

MACARON

Post top luminaires LIGHTCONNECT™

IP66 IK08

Beautiful modern urban post top in either single or twin arm configuration, offering powerful street lighting and asymmetric beam performance choices.

Luminaire color code

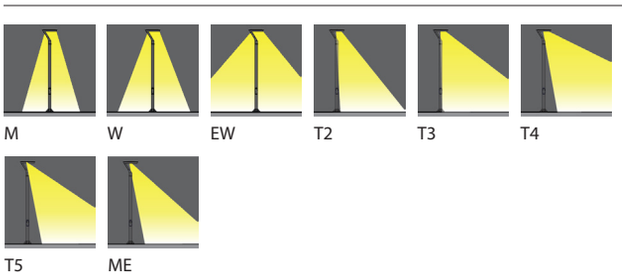
- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

Luminaire Structure

- Die-cast aluminium housing and frame pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- High-efficiency PMMA lens
- Durable silicone rubber gasket
- Clear toughened glass lens

Feature symbols

Light symbols



MACARON Post top luminaires LIGHTCONNECT™

Product code guide

UMC-20001-LC - T4 - W30 - DI - A90891-U

Optic | Colour | Dim Type | Accessory

Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

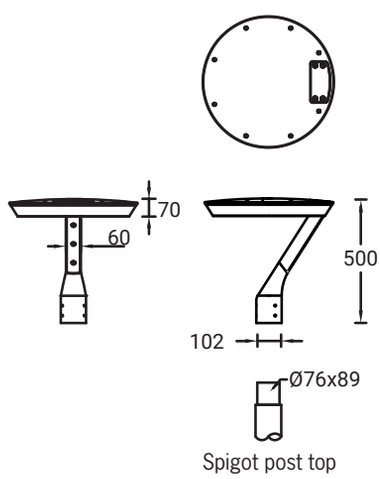
Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

	Product code	Lamp	Power	Lumen	EEC	Optic								CCT	Dimming type
						M	W	EW	T2	T3	T4	T5	ME		
MACARON 1	UMC-20001-LC	9 LED	81 W	6542 lm	A++	-	-	-	141°x44°	138°x48°	101°x79°	93°x120°	130°x40°	W 27 | 30 | 35 |40	ND | DI | DA
	UMC-20002-LC	2 x 24 LED	104 W	14341 lm	A++	30°	57°	105°x115°	136°x51°	119°x86°	102°x73°	-	136°x58°	W 27 | 30 | 35 |40	ND | DI | DA
MACARON 2	UMC-20011-LC	9 LED	81 W	6248 lm	A++	-	-	-	141°x37°	138°x39°	89°x59°	93°x117°	132°x35°	W 27 | 30 | 35 |40	ND | DI | DA
	UMC-20012-LC	2 x 24 LED	104 W	14341 lm	A++	30°	57°	105°x115°	136°x51°	119°x86°	102°x73°	-	136°x58°	W 27 | 30 | 35 |40	ND | DI | DA

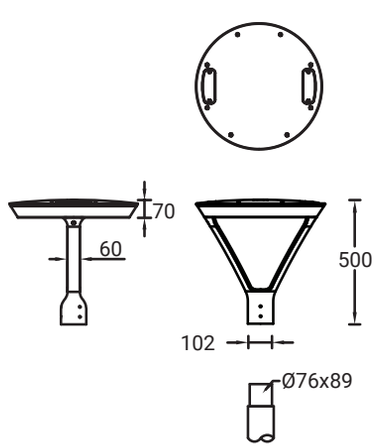
	NEMA 7 A90891	Zhaga Book 18 (Up) A90991-U
MC-20001-LC	•	•
MC-20002-LC	•	•
MC-20011-LC	•	•
MC-20012-LC	•	•

MACARON 1

MACARON 2



Spigot post top



Spigot post top

ARIZONA

Light columns LIGHTCONNECT™

IP65 IK08

Streamlined multi function. Clean-lined, smooth round decorative ambient lighting column with either lateral diffuser optic or triple or quadruple-internal adjustable projector options.

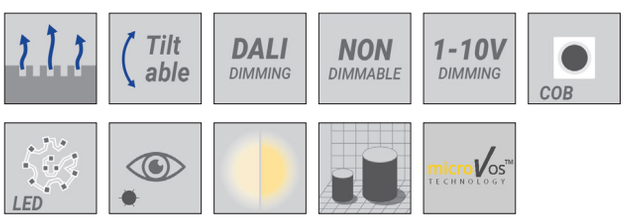
Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

Luminaire Structure

- Die-cast aluminium housing and extruded aluminium column pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- High-efficiency optical reflector or PMMA lens
- Clear, acrylic PMMA diffuser
- Maximum wind load resistance is 140 km/h
- Surge protection 10kV

Feature symbols



Light symbols

ARIZONA Light columns LIGHTCONNECT™

Product code guide

UAR-20991-LC - W - W40 - DI - A20161 - A20791 - A91191

Optic | Colour | Dim Type | Accessory 1 | Accessory 2 | Accessory 3

Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

	Product code	Lamp	Power	Lumen	EEC	Optic							CCT	Dimming type
						N	M	W	VW	T2	T3	T4		
Ø8.8" - Supplied with 9.8' pole														
ARIZONA 2	UAR-20973-LC	1 COB	39 W	3657 lm	A++	-	-	-	70°	-	-	-	W 27 | 30 | 35 |40	ND | DI | DA
	UAR-20974-LC	16 LED	37 W	3519 lm	A++	-	-	-	-	142°x 52°	137°x 65°	93°x 64°	W 27 | 30 | 35 |40	ND | DI | DA
Ø8.8" - Supplied with 9.8' pole - 4 Floodlights														
ARIZONA 3	UAR-20991-LC	4 x 7 LED	50 W	4100 lm	A+	16°	26°	46°	-	-	-	-	W 27 | 30 | 35 |40	ND | DI | DA
Ø8.8" - Supplied with 9.8' pole - 3 Floodlights														
ARIZONA 3	UAR-20992-LC	3 x 18 LED	85 W	9243 lm	A+	15°	24°	40°	-	-	-	-	W 27 | 30 | 35 |40	ND | DI | DA
	UAR-20993-LC	3 x 24 LED	115 W	12432 lm	A+	15°	24°	39°	-	-	-	-	W 27 | 30 | 35 |40	ND | DI | DA
Ø8.8" - Supplied with 9.8' pole - 2 Floodlights														
ARIZONA 6	UAR-21131-LC	3 COB	81 W	7033 lm	A+	23°	32°	47°	-	-	-	-	W 27 | 30 | 35 |40	ND | DI | DA

	NEMA 7	Zhaga Book 18 (Up)	WiFi	Speaker	180° Camera	Intercom	EV Charger	EO Hub	Round Power Plug	Motion sensor (Up to 3 meters)
	A90891	A90991-U	A91091	A91291	A91191	A91391	A91491	A91991	A91591	A91691-L2
UAR-20973-LC	•	•	•	•	•	•	•	•	•	•
UAR-20974-LC	•	•	•	•	•	•	•	•	•	•
UAR-20991-LC	•	•	•	•	•	•	•	•	•	•
UAR-20992-LC	•	•	•	•	•	•	•	•	•	•
UAR-20993-LC	•	•	•	•	•	•	•	•	•	•
UAR-21131-LC	•	•	•	•	•	•	•	•	•	•

	Color filter	Color filter	Color filter	Color filter	Anti glare visor	Anti glare visor	Linears spread lens	Linears spread lens
	A20116	A20117	A20118	A20119	A20161	A20261	A20114	A20214
UAR-20973-LC								
UAR-20974-LC								
UAR-20991-LC	•	•	•	•	•		•	
UAR-20992-LC						•		•
UAR-20993-LC						•		•
UAR-21131-LC								

	Color filter	Color filter	Color filter	Color filter	Root mount kit	Circuit breaker box IP44
	A20216	A20217	A20218	A20219	A20791	A21291
UAR-20973-LC					•	•
UAR-20974-LC					•	•
UAR-20991-LC					•	•
UAR-20992-LC	•	•	•	•	•	•
UAR-20993-LC	•	•	•	•	•	•
UAR-21131-LC						

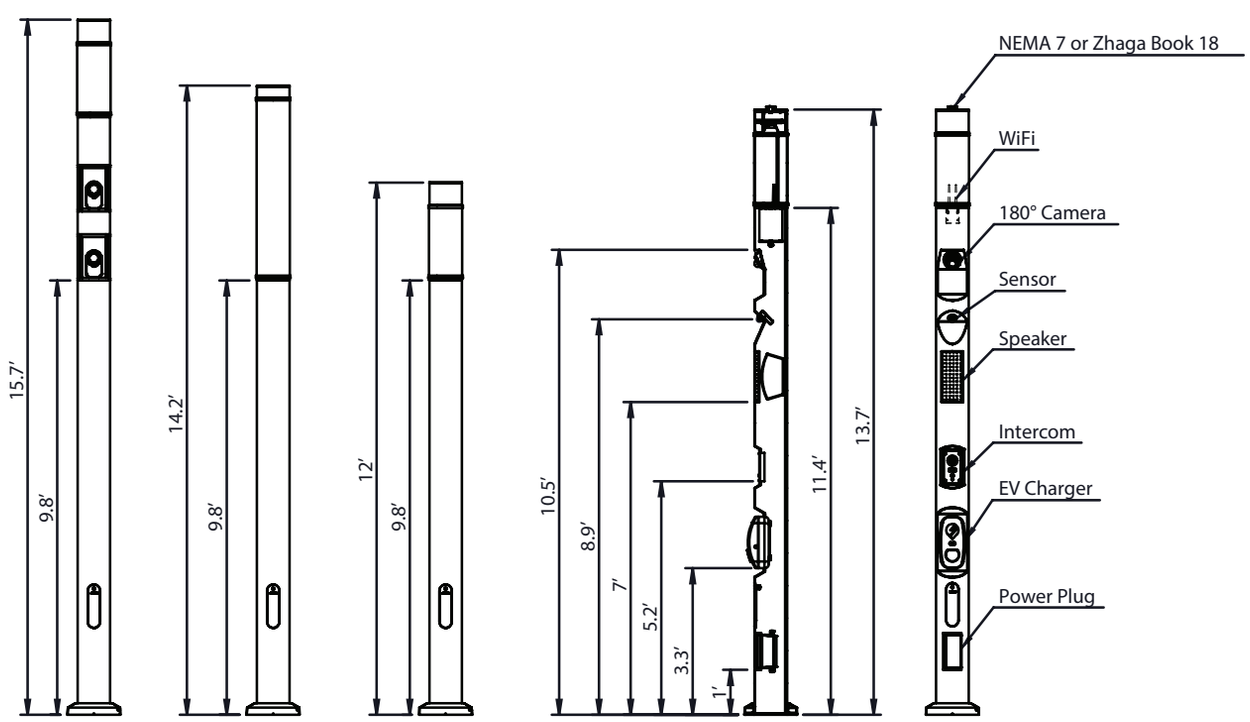
ARIZONA 2

ARIZONA 3

ARIZONA 3

ARIZONA 6

Configurations



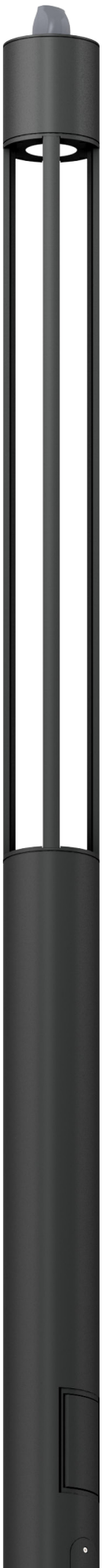
ARIZONA 6
UAR-21131

ARIZONA 3
UAR-20991
UAR-20992
UAR-20993

ARIZONA 2
UAR-20973
UAR-20974

BENTON

Light columns LIGHTCONNECT™



IP65 IK08

Modern urban lighting furniture. Fashionable contemporary structures creating glare-free soft illumination patterns, available with optional
top-mounted adjustable accent projectors.

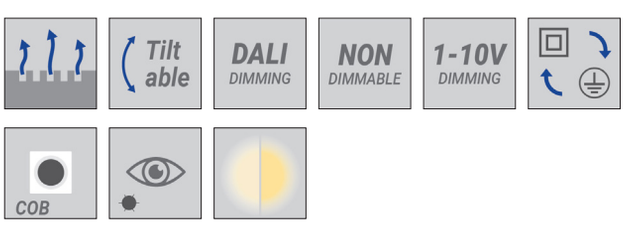
Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

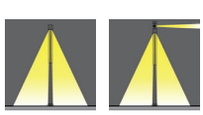
Luminaire Structure

- Die-cast aluminium housing and extruded aluminium column pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- High-efficiency optical reflector
- Clear toughened glass
- Maximum wind load resistance is 160 km/h
- Surge protection 10kV

Feature symbols



Light symbols



G

BENTON Light columns LIGHTCONNECT™

Product code guide

UBE-20021-LC - W30 - DI - A20791 - A21291 - A91191

- W30 → Colour
- DI → Dim Type
- A20791 → Accessory 1
- A21291 → Accessory 2
- A91191 → Accessory 3

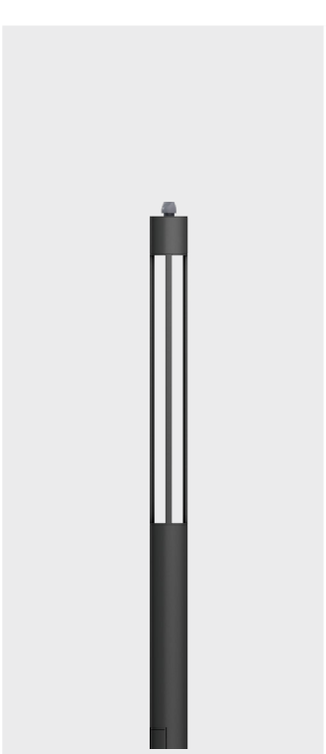
Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

	Product code	Lamp	Power	Lumen	EEC	Optic	CCT	Dimming type
						G		
Ø8.8" - Supplied with 14.7' pole								
BENTON 3	UBE-20001-LC	1 COB	40 W	2489 lm	A++	65°	W 27 | 30 | 35 |40	ND | DI | DA
Ø8.8" - Supplied with 14.7' pole - Down & 1 Floodlight								
BENTON 5	UBE-20021-LC	1 & 1 COB	61 W	4162 lm	A++	65°	W 27 | 30 | 35 |40	ND | DI | DA
Ø8.8" - Supplied with 14.7' pole - Down & 2 Floodlights								
BENTON 5	UBE-20022-LC	1 & 2 COB	82 W	5835 lm	A++	65°	W 27 | 30 | 35 |40	ND | DI | DA
Ø8.8" - Supplied with 14.7' pole - Down & 3 Floodlights								
BENTON 5	UBE-20023-LC	1 & 3 COB	103 W	7508 lm	A++	65°	W 27 | 30 | 35 |40	ND | DI | DA

	NEMA 7	Zhaga Book 18 (Up)	WiFi	Speaker	180° Camera	Intercom	EV Charger	EO Hub	Round Power Plug
	A90891	A90991-U	A91091	A91291	A91191	A91391	A91491	A91991	A91591
BE-20001-LC	•	•	•	•	•	•	•	•	•
BE-20021-LC	•	•	•	•	•	•	•	•	•
BE-20022-LC	•	•	•	•	•	•	•	•	•
BE-20023-LC	•	•	•	•	•	•	•	•	•

	Motion sensor (Up to 3 meters)	Motion sensor (Up to 12 meters)	Root mount kit	Circuit breaker box IP44
	A91691-L2	A91691-L7	A20791	A21291
BE-20001-LC	•	•	•	•
BE-20021-LC	•	•	•	•
BE-20022-LC	•	•	•	•
BE-20023-LC	•	•	•	•

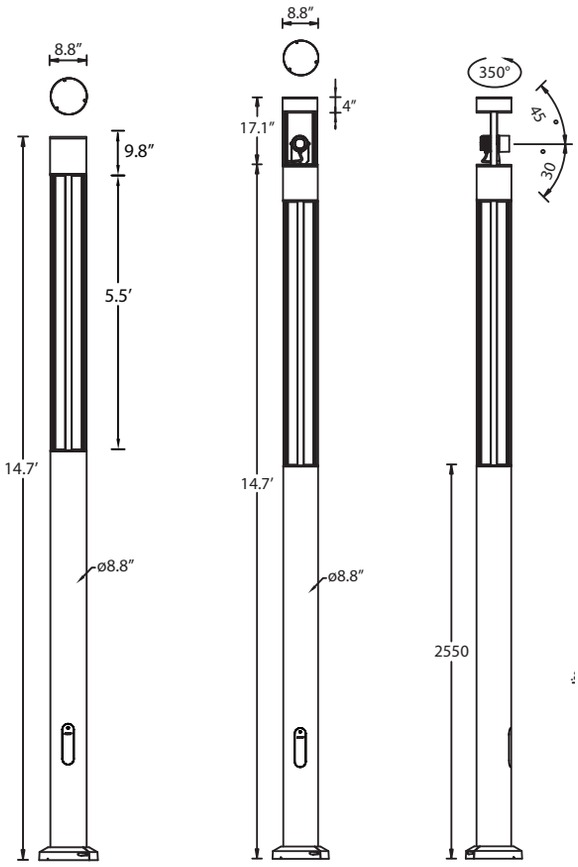


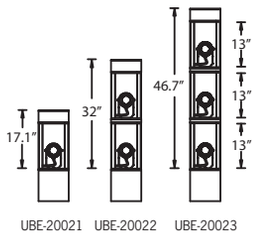
BENTON 3

BENTON 5

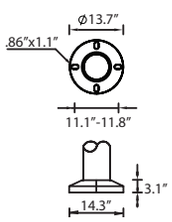
BENTON 5

BENTON 5



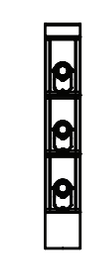


Top floodligh option

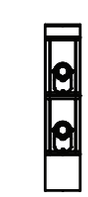


Mounting detail

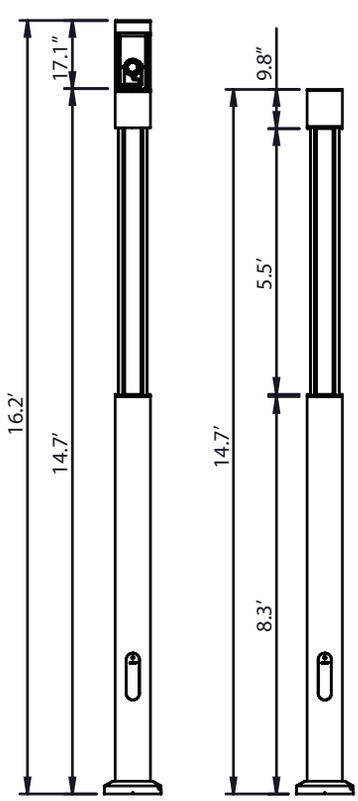
Configurations

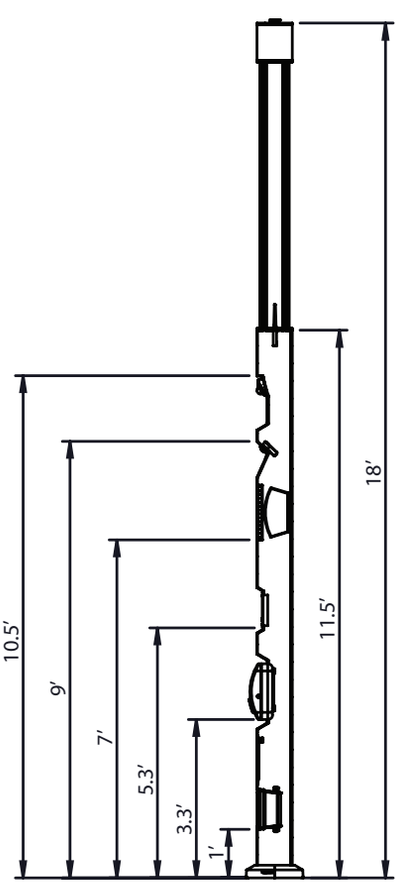


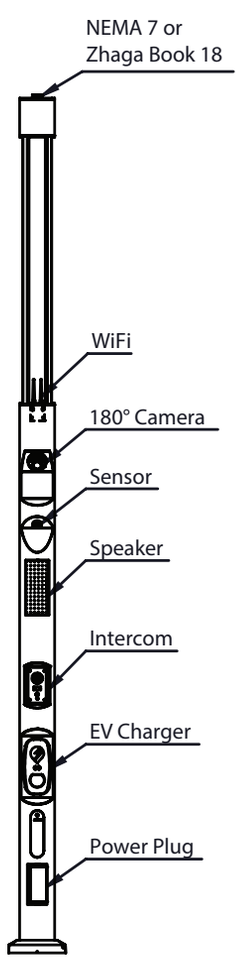
BENTON 5
UBE-20022



BENTON 5
UBE-20023

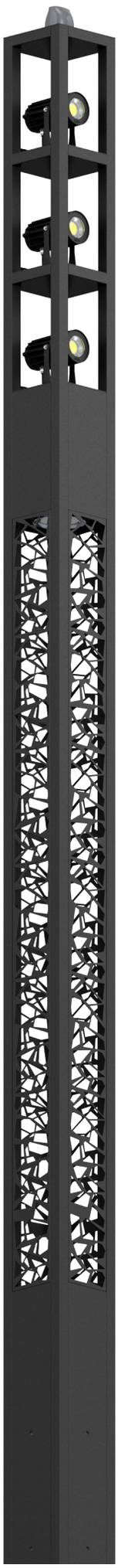






VANCOUVER

Light columns LIGHTCONNECT™



IP65 IK08

Total urban realm lighting solution. Optional heights, accent projectors, accessories and decorative lattice panels.

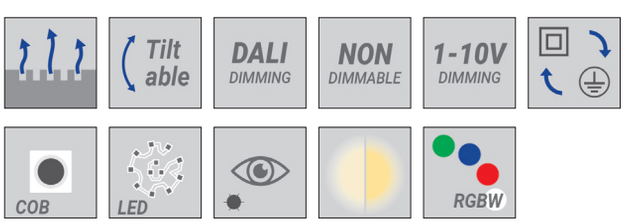
Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

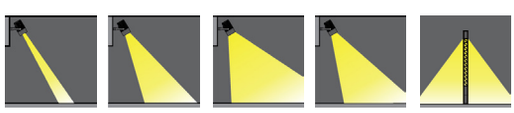
Luminaire Structure

- Die-cast aluminium housing and extruded aluminium column pre-treated before powder coating ensuring high corrosion resistance
- Stainless steel fasteners in grade 316
- Durable silicone rubber gasket
- High-efficiency optical reflector
- Clear toughened glass
- Maximum wind load resistance is 160 km/h
- Surge protection 10kV

Feature symbols



Light symbols



VANCOUVER Light columns LIGHTCONNECT™

Product code guide

UVA-20001-LC - W30 - ND - A21391 - A21291 - A91191

Colour | Dim Type | Accessory 1 | Accessory 2 | Accessory 3

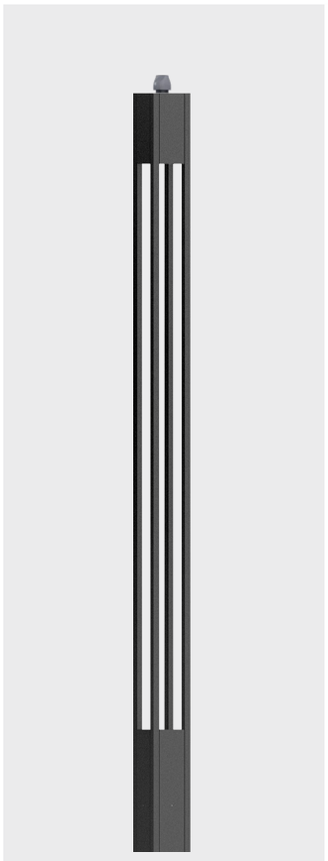
Color Temperature
W27 – Warm white 2700K
W30 – Warm white 3000K
W35 – Neutral white 3500K
W40 – Neutral white 4000K

Dimming Type
ND – Non dimmable
DI – 1-10V dimming
DA – DALI dimming

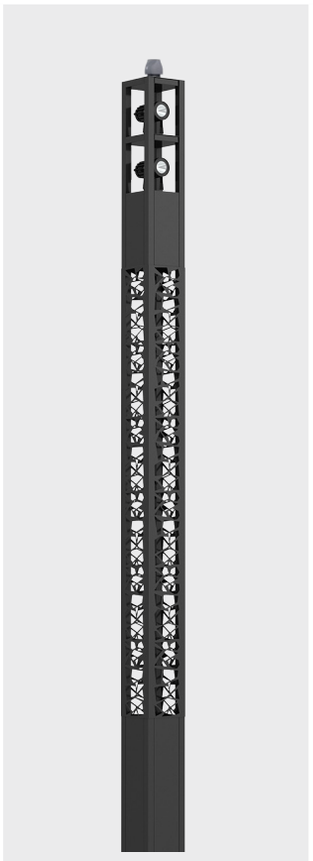
	Product code	Lamp	Power	Lumen	EEC	Optic					CCT	Dimming type
						VN	M	W	VW	G		
9.4"x9.4" - 14.7' - No decorative pattern												
VANCOUVER 1	UVA-20001-LC	1 COB	40 W	2969 lm	A++	-	-	-	-	65°	W 27 | 30 | 35 |40	ND | DI | DA
6.3"x6.3" - 9.8' - No decorative pattern												
VANCOUVER 2	UVA-20011-LC	1 COB	20 W	1414 lm	A++	-	-	-	-	65°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 13.3' - Decorative pattern type 1 - 1 Floodlights												
VANCOUVER 5	UVA-20021-LC	1 & 1 COB	61 W	3009 lm	A++	8°	23°	32°	43°	64°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 14.5' - Decorative pattern type 1 - 2 Floodlights												
VANCOUVER 5	UVA-20022-LC	1 & 2 COB	82 W	4682 lm	A++	8°	23°	32°	43°	64°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 15.7' - Decorative pattern type 1 - 3 Floodlights												
VANCOUVER 5	UVA-20023-LC	1 & 3 COB	103 W	6355 lm	A++	8°	23°	32°	43°	64°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 13.3' - Decorative pattern type 2 - 1 Floodlight												
VANCOUVER 6	UVA-20031-LC	1 & 1 COB	61 W	2840 lm	A++	8°	23°	32°	43°	58°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 14.5' - Decorative pattern type 2 - 2 Floodlights												
VANCOUVER 6	UVA-20032-LC	1 & 2 COB	82 W	4513 lm	A++	8°	23°	32°	43°	58°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 15.7' - Decorative pattern type 2 - 3 Floodlights												
VANCOUVER 6	VA-20033-LC	1 & 3 COB	103 W	6186 lm	A++	8°	23°	32°	43°	58°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 13.3' - Decorative pattern type 3 - 1 Floodlight												
VANCOUVER 7	UVA-20041-LC	1 & 1 COB	61 W	3343 lm	A++	8°	23°	32°	43°	56°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 14.5' - Decorative pattern type 3 - 2 Floodlights												
VANCOUVER 7	UVA-20042-LC	1 & 2 COB	82 W	5016 lm	A++	8°	23°	32°	43°	56°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 15.7' - Decorative pattern type 3 - 3 Floodlights												
VANCOUVER 7	UVA-20043-LC	1 & 3 COB	103 W	6689 lm	A++	8°	23°	32°	43°	56°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 12.1' - Decorative pattern type 1												
VANCOUVER 8	UVA-20051-LC	1 COB	40 W	1336 lm	A++	-	-	-	-	64°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 12.1' - Decorative pattern type 2												
VANCOUVER 9	UVA-20061-LC	1 COB	40 W	1167 lm	A++	-	-	-	-	58°	W 27 | 30 | 35 |40	ND | DI | DA
9.4"x9.4" - 12.1' - Decorative pattern type 3												
VANCOUVER 10	UVA-20071-LC	1 COB	40 W	1670 lm	A++	-	-	-	-	56°	W 27 | 30 | 35 |40	ND | DI | DA

	NEMA 7	Zhaga Book 18 (Up)	WiFi	Speaker	180° Camera	Intercom	EV Charger	EO Hub	Square Power Plug	Motion sensor (Up to 3 meters)	Motion sensor (Up to 12 meters)	Root mount kit	Circuit breaker box IP44
	A90891	A90991-U	A91091	A91291	A91191	A91391	A91491	A91991	A91791	A91691-L2	A91691-L7	A21391	A21291
UVA-20001-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20021-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20022-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20023-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20031-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20032-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20033-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20041-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20042-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20043-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20051-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20061-LC	•	•	•	•	•	•	•	•	•	•	•	•	•
UVA-20071-LC	•	•	•	•	•	•	•	•	•	•	•	•	•

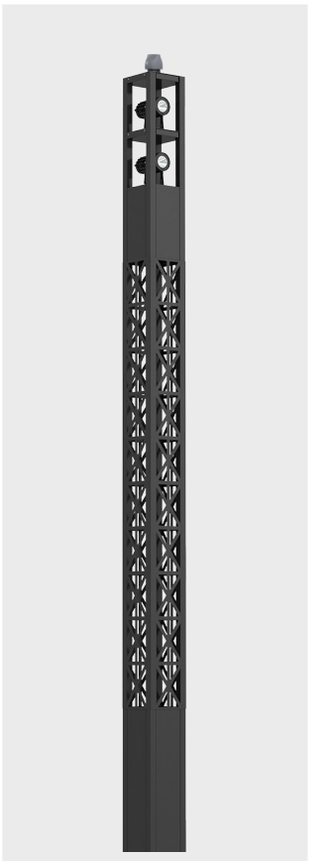
VANCOUVER Light columns LIGHTCONNECT™



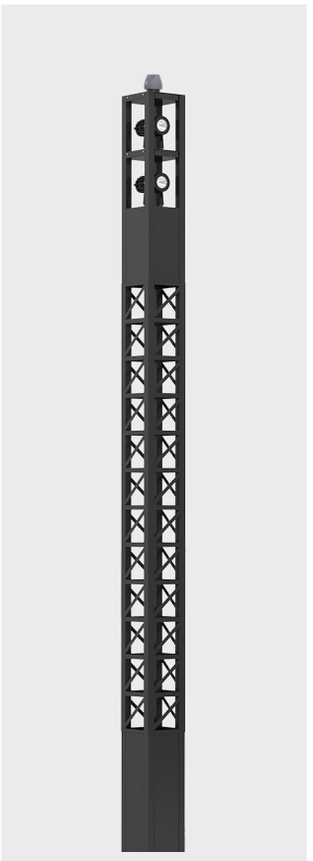
VANCOUVER 1



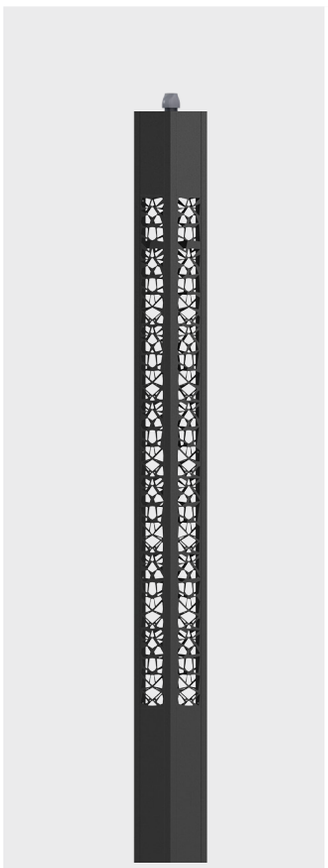
VANCOUVER 5



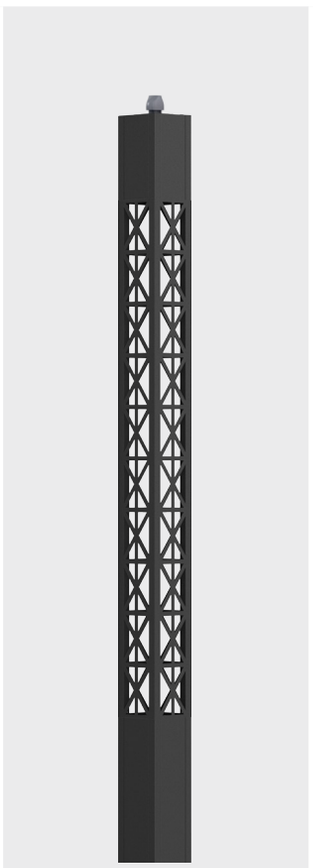
VANCOUVER 6



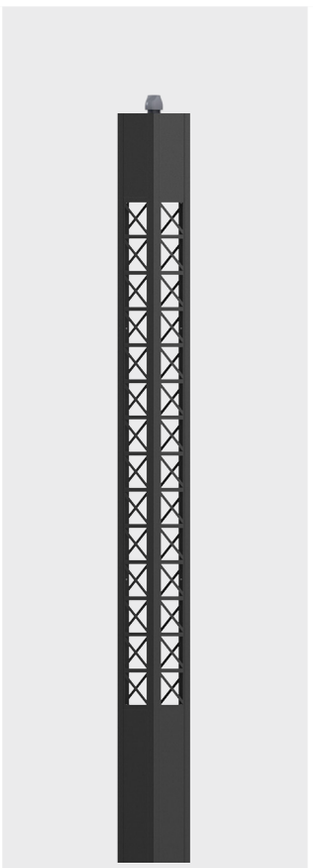
VANCOUVER 7



VANCOUVER 8



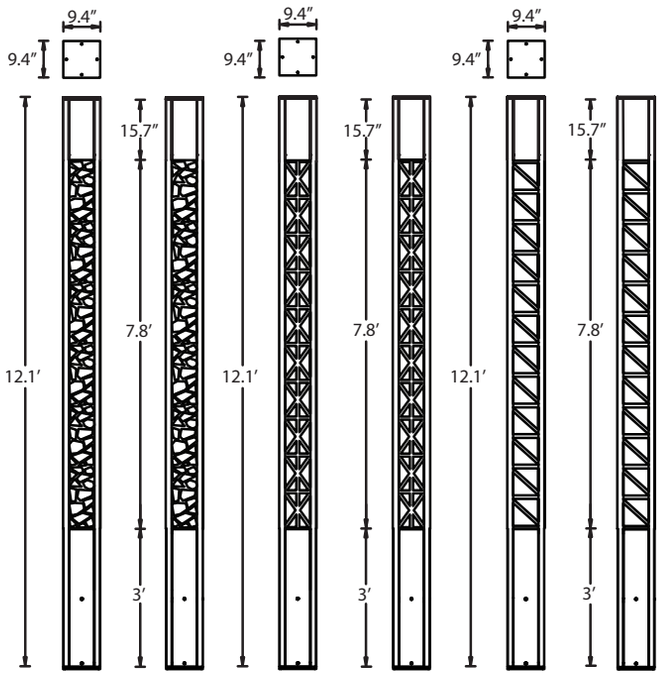
VANCOUVER 9



VANCOUVER 10

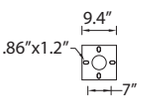
VANCOUVER Light columns LIGHTCONNECT™

Vancouver 8



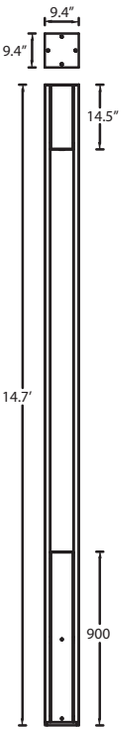
Vancouver 9

Vancouver 10



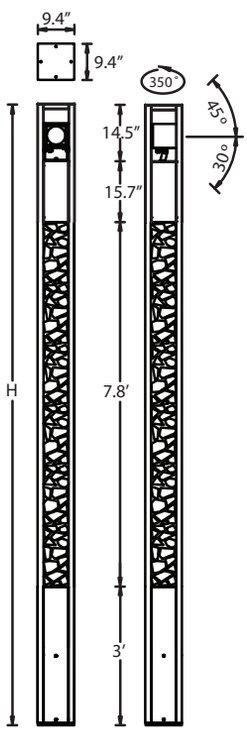
Mounting detail

Vancouver 1

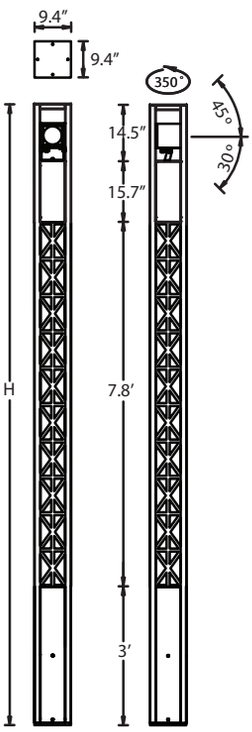


Mounting detail

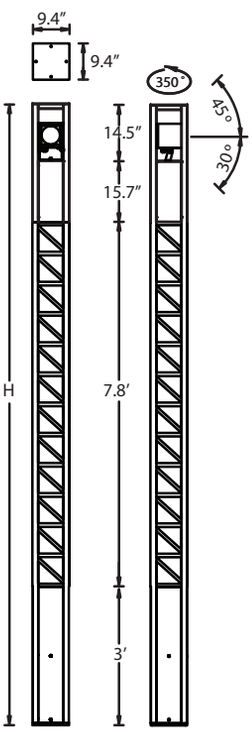
Vancouver 5

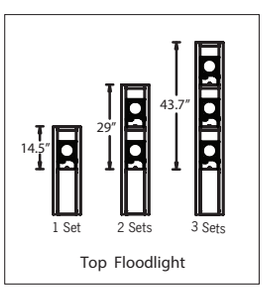


Vancouver 6

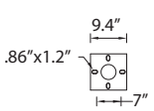


Vancouver 7



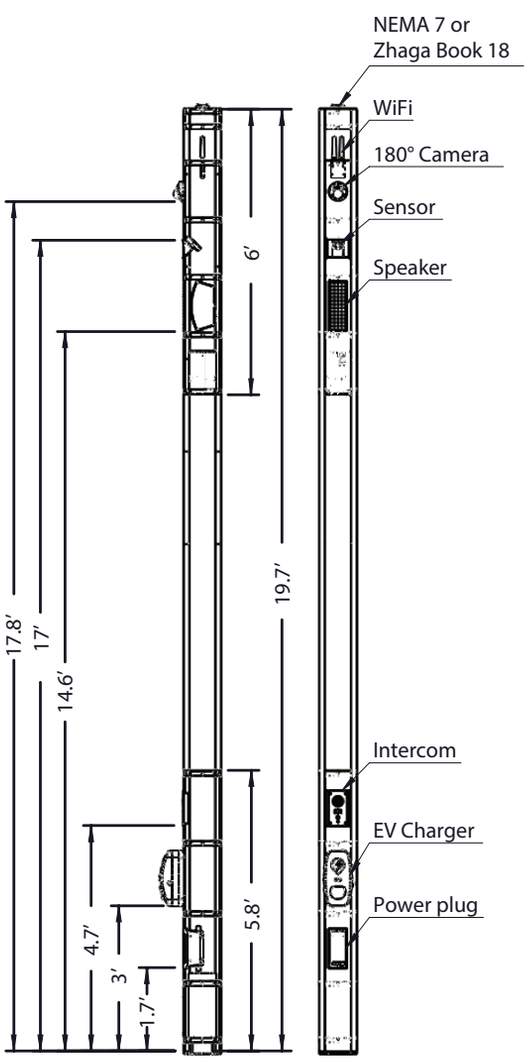


Top Floodlight



Mounting detail

Configurations

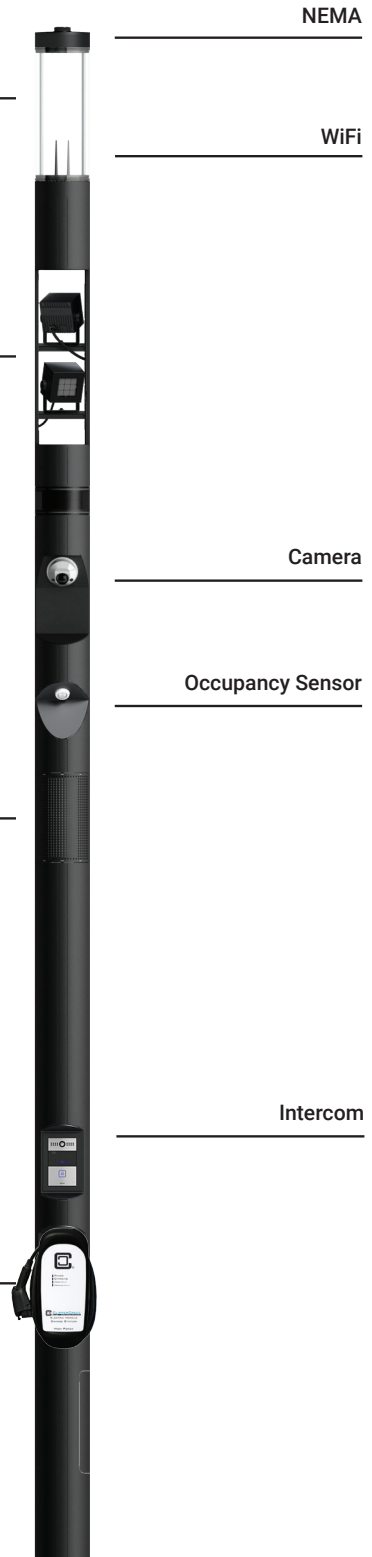


L-COLUMN

Intelligent light column

IP65 IK08

A sleek configurable smart lighting column system offering unlimited options for urban and public realm illumination. With a suite of smart city technology options and infinite configuration possibilities, LIGMAN's L-COLUMN is the most powerful and adaptable smart city solution in the marketplace.



Luminaire color code

- 01	- 02	- 03	- 05	- 06
Black	Dark Grey	White	Matt Silver	Bronze
RAL 9011	RAL 7043	RAL 9003	RAL 9006	RAL 6014

L-COLUMN Intelligent light column

Lighting solutions

The system can incorporate any post top ambient lighting fixture from the LIGMAN portfolio, plus bracket/arm area luminaires, gimbal projectors and RGBW configurable beacons. The choice is yours to meet the lighting design needs for the space/area.

- Up to 6000 lm
- 28 LED
- 101.5 lm/W
- 80°, 130°, 134°x 48°, 134x54° options
- 2700K, 3000K, 3500K or 4000K

LCO-20011
360° Lighting

LCO-20012
360° Lighting + WiFi

- Wireless control of lighting fixture
- Supports all common wireless protocols
- Zhaga Book 18 socket available

LCO-20051
NEMA

- Adjustable: Tilt 40°, Rotation 25°
- Up to 1688 lm per projector
- 23°, 32°, 47° options
- 2700K, 3000K, 3500K or 4000K

* Please refer to UOD-50001 for luminaire details

LCO-20063
Cluster projectors-ODESSA (4)

LCO-20064
Cluster projectors-ODESSA (2)

- Adjustable: Tilt 40°, Rotation 25°
- Up to 816 lm per projector
- 8°
- 2700K, 3000K, 3500K or 4000K

* Please refer to UOD-50002 for luminaire details

LCO-20063-VN
Cluster projectors-ODESSA (4)
Very narrow

LCO-20064-VN
Cluster projectors-ODESSA (2)
Very narrow

L-COLUMN Intelligent light column

Smart city solutions

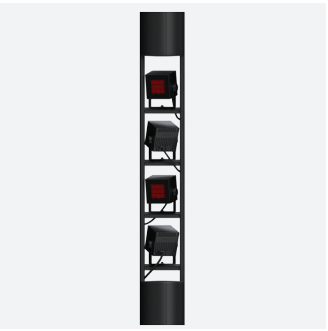
Beyond these infinite lighting options are offered many Smart City technologies, including an electric car/vehicle (EV) charging unit, intercom, panic button, CCTV, Audio Speakers, WiFi access points and Mobile equipment, weather stations, banners, flags, signs and photovoltaic (PV) units within internal batteries and inverter, sized as applicable.

- Adjustable: Tilt 40°, Rotation 25°
- Up to 1975 lm per projector
- 10°, 19°, 33°, 41°x14°, 71° options
- 2700K, 3000K, 3500K or 4000K

* Please refer to LD-50021 for luminaire details

LCO-20065
Cluster projectors-LADOR (4)

LCO-20066
Cluster projectors-LADOR (2)



- Adjustable: Tilt 40°, Rotation 25°
- Up to 1016 lm per projector
- 8°, 17°, 26°, 43°x11°, 65° options
- RGBW30, RGBW40 or RGBW65

* Please refer to ULD-50022 for luminaire details

LCO-20065-RGBW
Cluster projectors - LADOR RGBW (4)

LCO-20066-RGBW
Cluster projectors - LADOR RGBW (2)

LCO-20101
Post top luminaire base

A21181
Bracket for projectors

LCO-20131
Luminaire mount arm

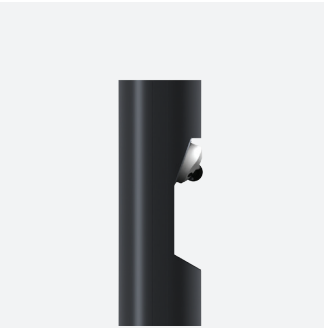
LCO-20132
Adjustable luminaire mount arm

LCO-20041
WiFi

- 2.4GHz world approved frequency
- Dual-band 2x2 MiMo 802.11N with 100m coverage
- PoE (Power Over Ethernet)
- 128 clients (Maximum number of active connections)

LCO-20021
360° Camera

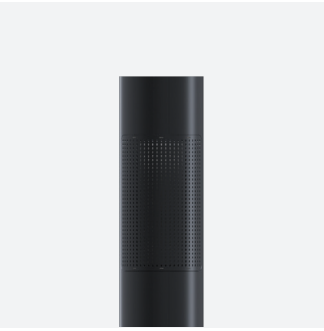
- High definition 1/2.5" progressive scan CMOS Image sensor
- Low-level lighting mode, 0 Lux with IR
- Video compression H.265+
- Ultra high definition 2560x1440 pixels at 30fps
- Video bitrate up to 16384 Kbps
- 3 axis on-site adjustment
- API ONVIF
- Multiprotocol HTTP, HTTPS, PPPoE, SMTP
- OPTIONAL: Point, tilt, zoom versions, higher 4 MP



LCO-20023
180° Camera

- High definition 1/2.9" progressive scan CMOS Image sensor
- Low-level lighting mode, 0 Lux with IR
- Video compression H.264/5+
- Ultra high definition 2944x1656 pixels at 20fps
- Video bitrate up to 32kbps
- 3 axis on-site adjustment
- API ONVIF
- Multiprotocol HTTP, HTTPS, PPPoE, SMTP
- OPTIONAL: Point, tilt, zoom versions, higher MP

LCO-20024
2 x 180° Camera



LCO-20071
Speaker

- 10-80 W wide power
- 4 Ohm low impedance
- 20 Hz - 20 kHz (wide audio range)

LCO-20121
Occupancy Sensor

- 24-hour daylight monitoring dawn/ dusk sensor
- Tri-level dimming control based upon occupancy
- Programmable detection area 30°-150°
- Programmable light level activation 2-50 lux
- Programmable hold time 5s - 30 minutes
- Cluster projector activator

LCO-20092
Intercom

- Stainless steel vandalism protected
- Single button direct to controller alert
- Built-in camera and speaker
- IP communication

LCO-20093
EV Charger

- EO Genius - worldwide service provider
- OCPP protocol for multi-service providers
- Single phase 7.2kW, multi-phase up to 22kW
- Easy to download and use App on any mobile device
- All in one system: charger, payment and monitoring through one cloud portal

LCO-20094
EV Charger + Intercom

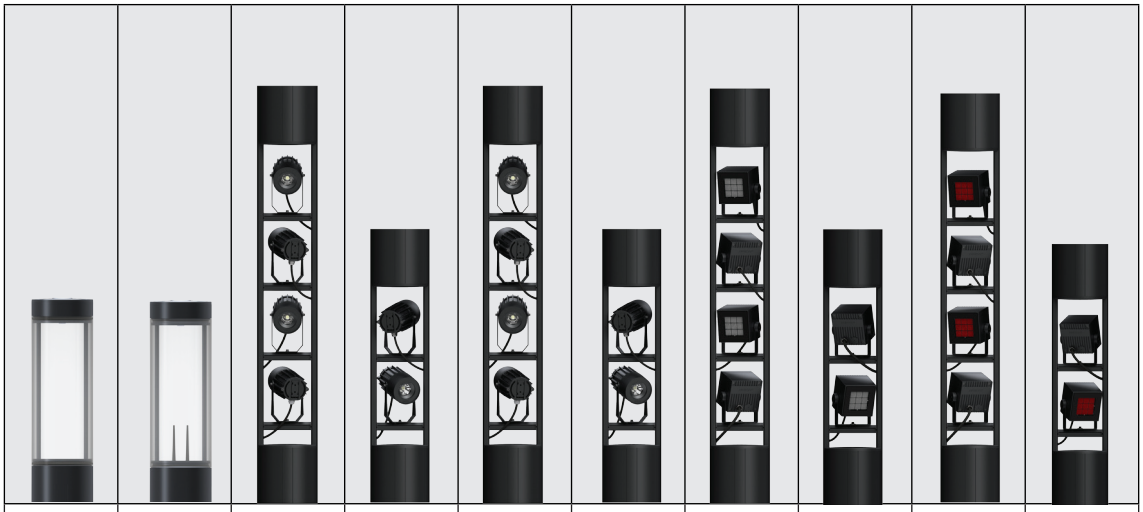
A21281
Banner arm

L-COLUMN Intelligent light column

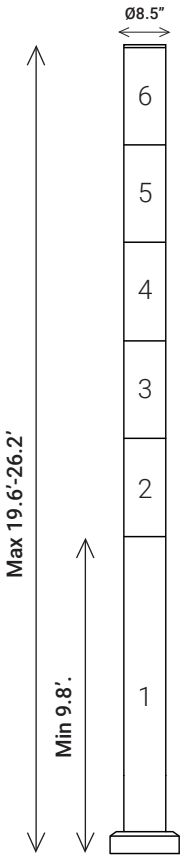
Product code guide

LCO-20111 / LCO-20094 / LCO-20071 / LCO-20121 / LCO-20023 / LCO-20063 / LCO-20012 / A21181 / A21281

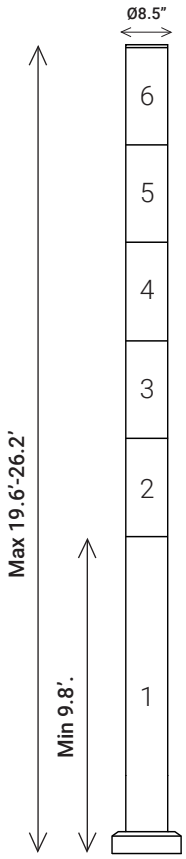
1.BASE | STEP1 | STEP2 | STEP3 | STEP4 | STEP5 | STEP6 | Accessory 1 | Accessory 2

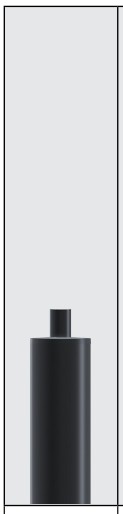
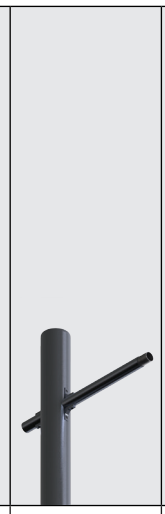
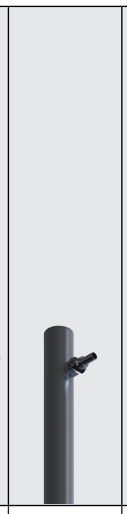
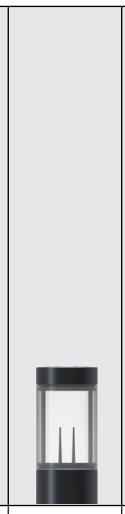
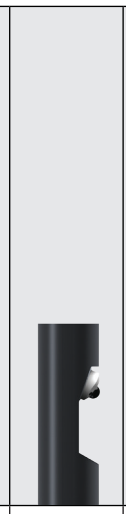
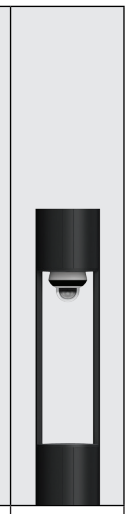


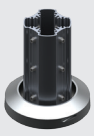
Product Name	360° Lighting	360° Lighting + WiFi	Cluster projectors ODESSA (4)	Cluster projectors ODESSA (2)	Cluster projectors ODESSA (4) very narrow	Cluster projectors ODESSA (2) very narrow	Cluster projectors LADOR (4)	Cluster projectors LADOR (2)	Cluster projectors LADOR (4) - RGBW	Cluster projectors LADOR (2) - RGBW
Product Code	**LCO-20011**	**LCO-20012**	**LCO-20063**	**LCO-20064**	**LCO-20063-VN**	**LCO-20064-VN**	**LCO-20065**	**LCO-20066**	**LCO-20065-RGBW**	**LCO-20066-RGBW**
6	√	√	√	√	√	√	√	√	√	√
5	×	×	√	√	√	√	√	√	√	√
4	×	×	×	×	×	×	×	×	×	×
3	×	×	×	×	×	×	×	×	×	×
2	×	×	×	×	×	×	×	×	×	×
1	×	×	×	×	×	×	×	×	×	×
	×	×	×	×	×	×	×	×	×	×



L-COLUMN Intelligent light column

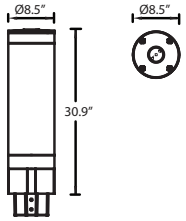


									
Product Name	Post top luminaire base	Bracket for projectors	Luminaire mount arm	Adjustable luminaire mount arm	NEMA	WiFi	180° Camera	2 x 180° Camera	360° Camera
Product Code	**LCO-20101**	**A21181**	**LCO-20131**	**LCO-20132**	**LCO-20051**	**LCO-20041**	**LCO-20023**	**LCO-20024**	**LCO-20021**
6	√	√	×	×	√	√	√	√	√
5	×	√	×	×	×	×	√	√	√
4	×	√	×	×	×	×	√	√	√
3	×	√	×	×	×	×	√	×	×
2	×	√	×	×	×	×	√	×	×
1	×	×	√	√	×	×	×	×	×
	×	×	×	×	×	×	×	×	×

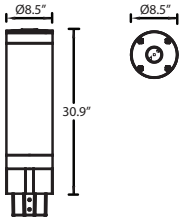
										
Speaker	Occupancy Sensor	Intercom	EV Charger	EV Charger + Intercom	Aluminium Column *	Steel pole ø8.5”	Steel pole ø10.7”	Aluminium Base	Aluminium Base + Cover	Banner arm
LCO-20071	**LCO-20121**	**LCO-20092**	**LCO-20093**	**LCO-20094**	**LCO-20091**	**LCO-20141**	**LCO-20151**	**LCO-20111**	**LCO-20112**	**A21281**
√	×	×	×	×	×	×	×	×	×	×
√	√	×	×	×	×	×	×	×	×	√
√	√	×	×	×	×	×	×	×	×	√
√	√	×	×	×	×	×	×	×	×	√
√	√	×	×	×	×	×	×	×	×	√
×	×	√	√	√	√	√	√	×	×	×
×	×	×	×	×	×	×	×	√	√	×

* Steel column available for high wind load applications

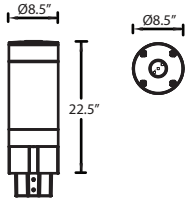
360° Lighting
LCO-20011



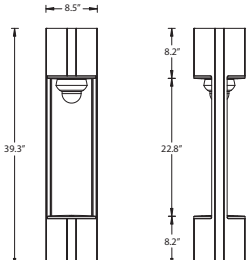
360° Lighting + WiFi
LCO-20012

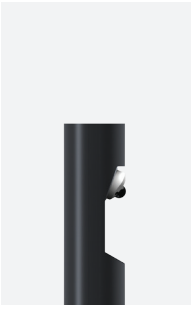


WiFi
LCO-20041

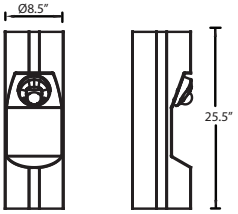


360° Camera
LCO-20021

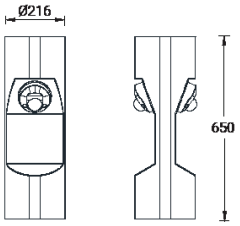




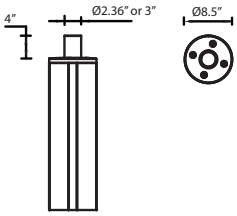
180° Camera
LCO-20023

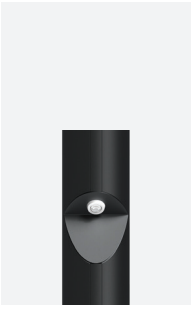


2 x 180° Camera
LCO-20024

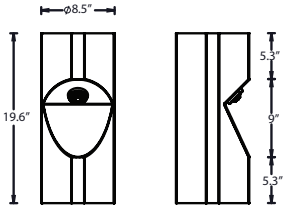


Post top luminaire base
LCO-20101

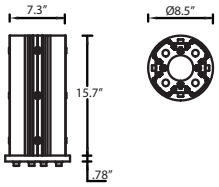




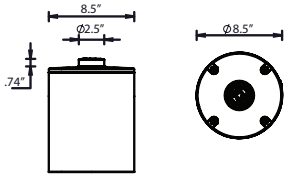
Occupancy Sensor
LCO-20121



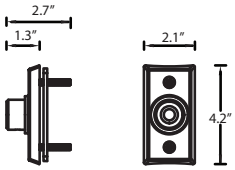
Aluminium Base
LCO-20111



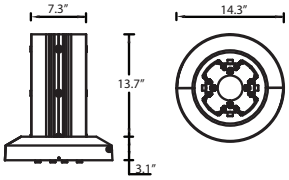
NEMA
LCO-20051

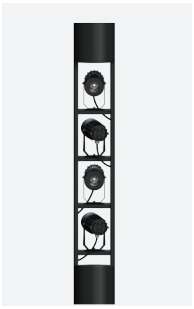


Bracket for projectors
A21181

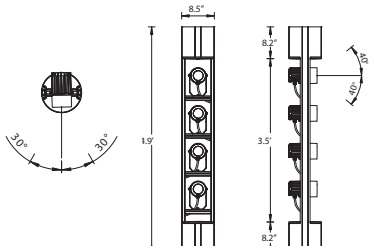


Aluminium Base + Cover
LCO-20112

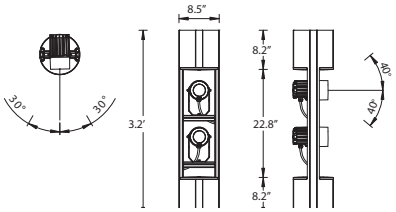




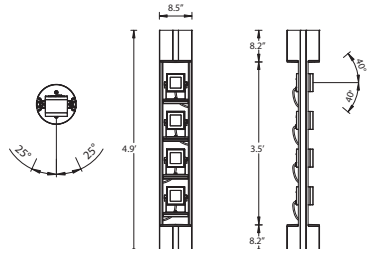
Cluster projectors - ODESSA (4)
LCO-20063

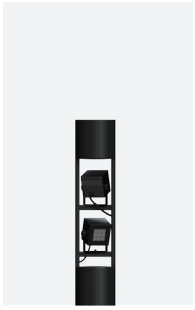


Cluster projectors - ODESSA (2)
LCO-20064

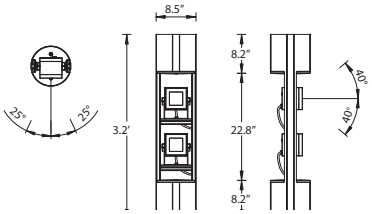


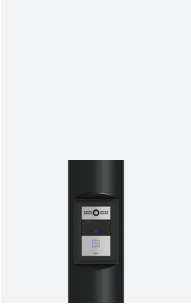
Cluster projectors - LADOR (4)
LCO-20065



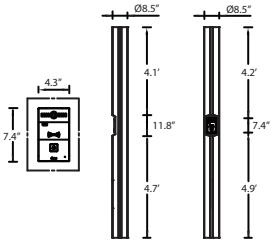


Cluster projectors - LADOR (2)
LCO-20066

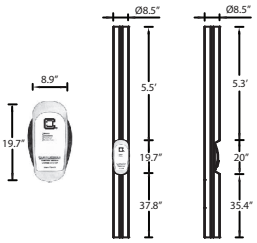




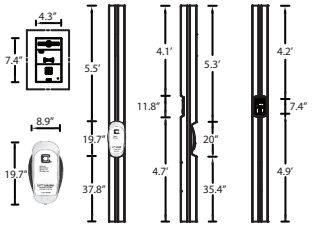
Intercom
LCO-20092



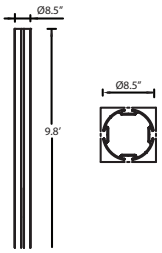
EV Charger
LCO-20093

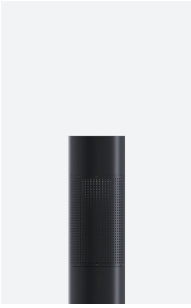


EV Charger + Intercom
LCO-20094

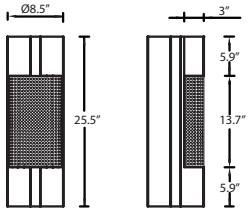


Aluminium Column
LCO-20091

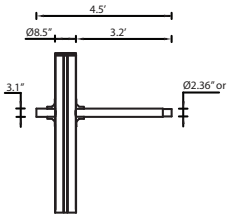




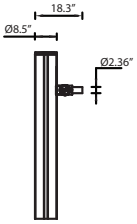
Speaker
LCO-20071



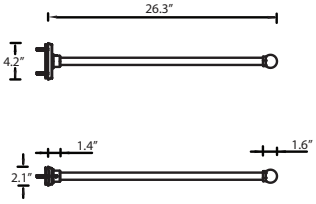
Luminaire mount arm
LCO-20131



Adjustable luminaire mount arm
LCO-20132



Banner arm
A21281



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MIDDLE EAST AND AFRICA

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sales.me@ligmanme.com

ASIA PACIFIC

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Tel: +66 2 321 8211
info@ligman.com

INDONESIA
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