

INDUSTRIAL COMMERCIAL HORTICULTURAL



LED LIGHTING CATALOGUE

PURE LIGHT

Pure Light LED Products (Pty) Ltd., Is a South African LED lighting manufacturer based in Johannesburg.

Founded in 2012, designing and producing high end quality LED products for all sectors including industrial, Warehousing, commercial, retail, healthcare, mining, and specialized horticultural lights for agriculture.

Product ranges of led luminaires includes, high bays, low bays, flood lights, street lights, parking lights, Horticultural lights, and UVC disinfection lights used in the Combat of COVID.

A company working in close collaboration with its customers Ensuring optimal project designs, investment, financial returns And technical requirements.



REASONS TO WORK WITH US

- 1 Proudly South African.** A proudly South African manufacturing company, Servicing South Africa and our neighbors.
- 2 Team of professionals.** Extensive experience in R&D, lighting design, and manufacturing.
- 3 Expert knowledge.** Deep understanding of technical requirements for projects, with comprehensive Specialized site surveys, design and support capabilities.
- 4 Efficiency and Quality.** Emphasis is on quality and efficient luminaire design. For long-term sustainable Solutions using only the best quality components.
- 5 Specialized products and designs.** A full range of high end industrial and commercial products with Specialized modular design providing complete solutions, flexibility and unique applications.
- 6 Track record.** A successful track record of small to large projects with major national and International clients.
- 7 Lighting Management Services.** Energy Saving with complex LED solutions and LMS systems.

DESIGN & MANUFACTURING PARTNERS



CLIENTS



CONTENTS

AWADA - LIGHT MANAGEMENT SYSTEM



INDUSTRIAL - HIGH BAYS AND FLOOD LIGHTS



Master
High Bay



Warehouse Master
High Bay



Architect Master
Flood Light

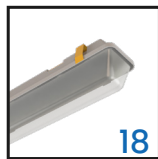


Vega
Flood Light

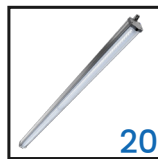
INDUSTRIAL - LOW BAYS



LED LINE IP65
Low Bay



LED LINE IP65
Low Bay



BASE LIGHT
Low Bay



LINEAR
Low Bay

STREET & PARKING



STREET MASTER



PARKING MASTER

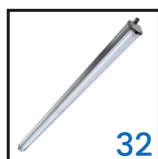


STREET VEGA

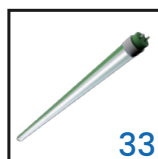
HORTICULTURAL



GREEN MASTER



GREEN BASE



GREEN TUBE

LIGHT MANAGEMENT SYSTEM



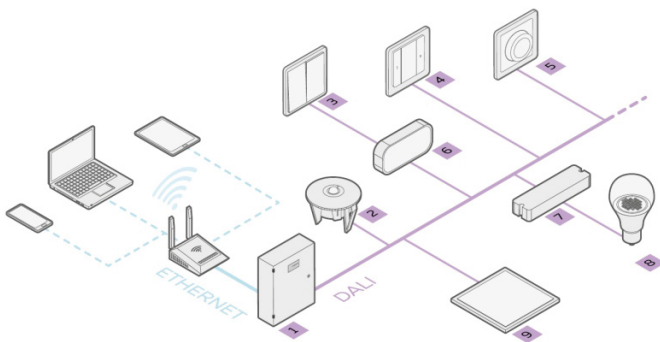
DALI CONTROL MANAGEMENT SYSTEM

- Bi-directional communication - send commands to and receive information from light fittings
- Maximize energy savings - occupancy, daylight harvesting, time scheduling
- Area management & control
- Scalability
- Fault notification
- Quick and easy change of light settings
- Sensor remote settings & control
- Manual & automatic control
- Smooth dimming
- Scalability
- Can be integrated into high-level bms (scada/bms)
- Improved productivity and workplace safety
- Comfortable working environment
- Compliance with legal and industry requirements



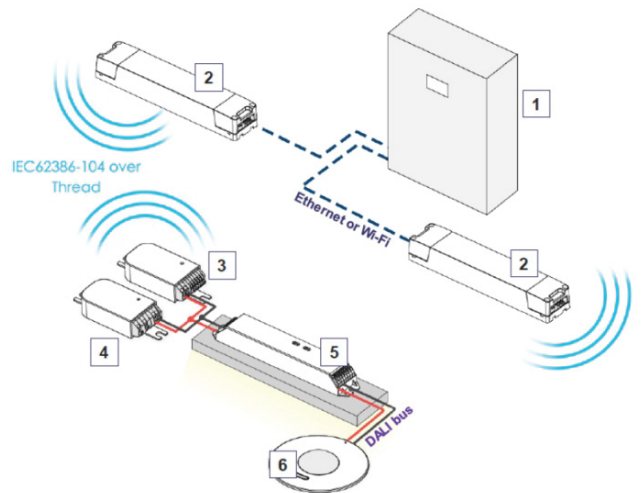
SIMPLE WIRING TOPOLOGY

WIRED

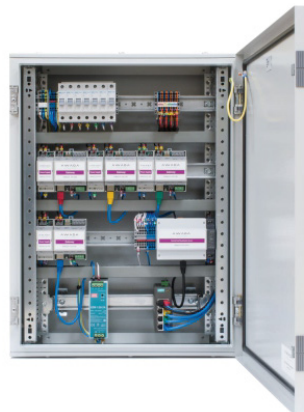


WIRELESS – RF

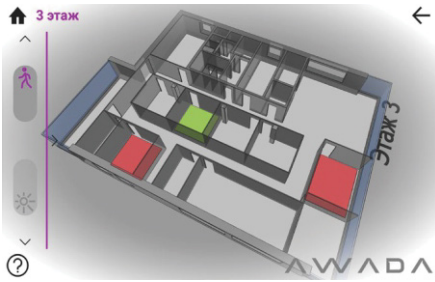
Easy and fast Plug&Play wireless solution without wiring and low installation costs.



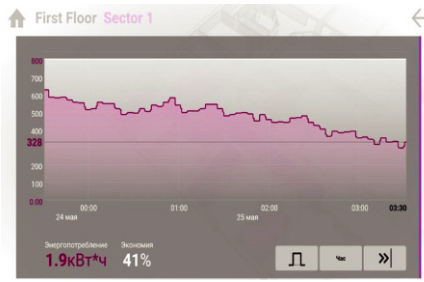
1. AWADA switchboard box containing all the necessary components for system operation.
2. Wireless network controller DAP-AC - deploys a wireless subnet, can communicate with up to 63 devices.
3. Wireless module DAP-BRIDGE - used to connect DALI devices to a wireless subnet.
4. DALI bus power supply - provides power for DALI local bus devices in the wireless subnet
5. LED luminaire driver
6. DALI-2 motion and light sensor



DYNAMIC 3D MODEL INTERFACE



AREA MANAGEMENT



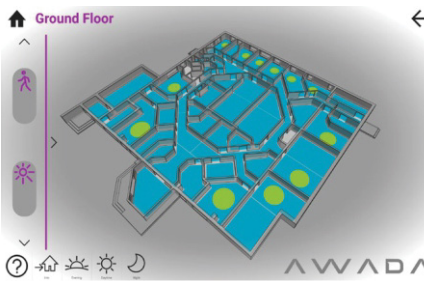
POWER CONSUMPTION REPORTING



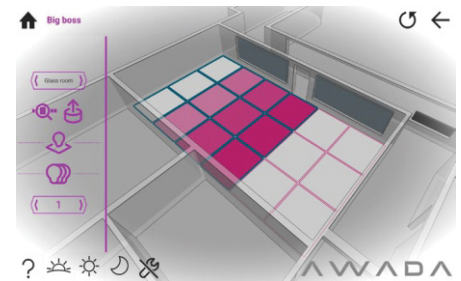
DETECTION AND NOTIFICATION



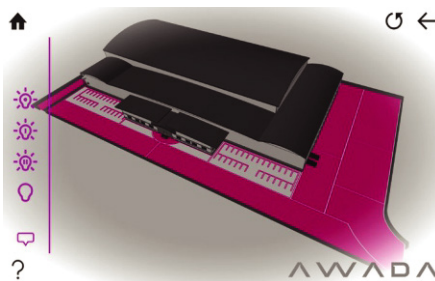
SCHEDULED OPERATIONS



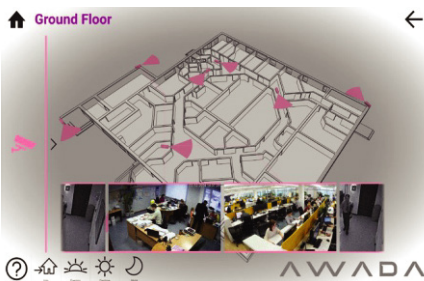
SENSOR CONTROL



LUMINAIRE CONTROL



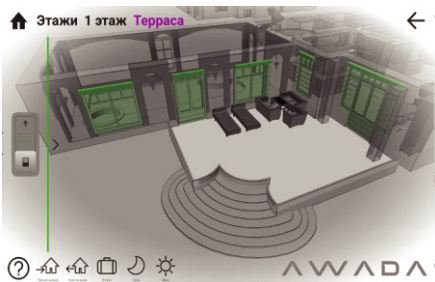
SCALING



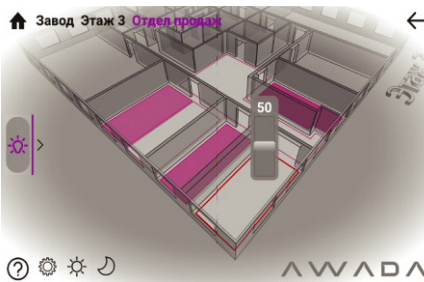
CCTV SURVEILLANCE



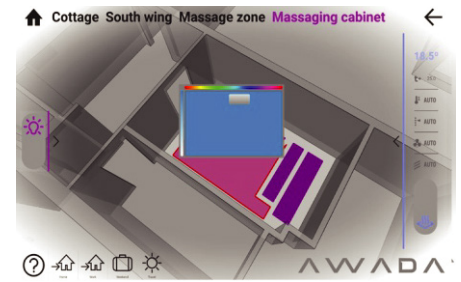
CLIMATE CONTROL



DRIVE CONTROL:
GATES, DOORS



DIMMERS CONTROL



COLOUR CHANGING

140-150
L/W

MASTER HIGH BAY

Generation 2



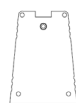
Pure Lights range of high bays are designed for the illumination of interior premises in hangars, warehouses, cold storage facilities, production premises and other interior spaces.

Ideal to use in any environment with heights between 8m - 25m

MASTER HIGH BAY SPECIFICATION



90mm



58mm



470mm / 720mm / 970mm / 1 220mm



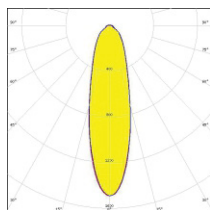
Operating Voltage: 170 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 4kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Colour temperature: 4000K optional
 Weight: 1.1kg, 1.7kg; 2,3kg; 3,5kg
 Dimming optional: Range 1% to 100%
 (DSI, DALI)

LED Code L80B10

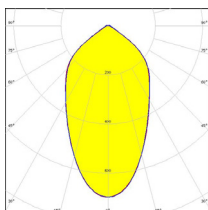
Product Name	Power	Colour Temp K	Luminous Flux (LM)	Product Code
Master 2	67W	5000K	9 800	M2Su-X-5K
Master 3	99W	5000K	14 150	M3Su-X-5K
Master 4	135W	5000K	19 600	M4Su-X-5K
Master 5	166W	5000K	23 950	M5Su-X-5K

Light Diagram

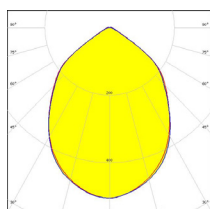
S - 29.0°



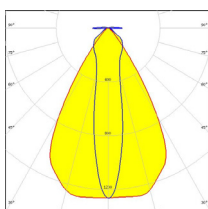
M - 61.0°



S - 29.0°



M - 61.0°



Optional Items

Code

Image

P2000 hook

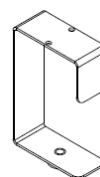
CS00161-005-11

DALI2 driver

Dali 2

D4i driver /
Awada LMS Wireless

D4i



120
L/W

WAREHOUSE MASTER HIGH BAY



Pure Lights Warehouse Master range is specialized with low glare technology for the warehouse, industrial and commercial environments.

Designed for the illumination of narrow gangways, as in high rise storage or maintenance areas with requirements for high visibility levels. The prismatic diffuser technology achieves the low glare effect and distribution of superior light uniformity. Insuring clear and illuminated visibility for workers, providing a comfortable workspace while loading/off-loading shelves.

The diffuser creates a refraction of an elongated radiation pattern, providing better illumination of racks and areas in between.

Most efficient usage at suspension heights between 10m - 20m.

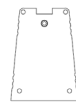
These areas require 200-250lx of lighting output, due to the superior bright LED modules utilized these requirements are easily achieved.

Compatible with Awada (LMS).

WAREHOUSE MASTER HIGH BAY SPECIFICATION



110mm



65mm



720mm / 970mm / 1 220mm



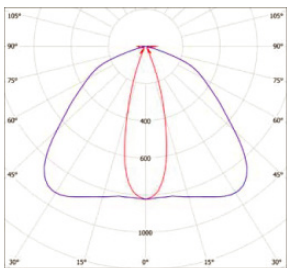
Operating Voltage: 170 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 2kV to 4kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Colour temperature: 4000K optional
 Weight: 1.1kg, 1.7kg; 2,3kg; 3,5kg
 Dimming optional: Range 1% to 100%
 (DSI, DALI)

Product Code	Power	Colour Temp K	Luminous Flux (LM)
Warehouse Master 3	100W	5000K	9 800
Warehouse Master 4	137W	5000K	14 150
Warehouse Master 5	167W	5000K	19 600

LED Code L90B10

Light Diagram

0°



Optional Items	Code	Image
P2000 Hook	CS00161-005-11	
DALI2 driver	Dali 2	
D4i driver / Awada LMS Wireless	D4i	

O: Has a medium round beam with low glare and excellent cut-off. O is designed to be used in high bay applications with narrow spaces, for example corridors between shelves.

120
L/W

ARCHITECT MASTER FLOOD LIGHT



Pure Lights Architect Master range offers increased brightness, the flood lights are designed for the illumination of exterior walls, billboards and any other exterior structures.

Ideal to use in all heights of up to 20m, to replace 150W, 250W, and 400W classical flood lights.

All LED chips are encased in individual optic lenses, insuring light distribution is in the right direction with maximum efficiency, and minimum light pollution. The aluminum extrusion housing allows for installation in wet environments, including coastal areas with high levels of saline humidity (18-20 μ anodization on the extruded profile).

ARCHITECT MASTER FLOOD LIGHT SPECIFICATION



90mm



50mm



470mm / 720mm / 970mm / 1 220mm



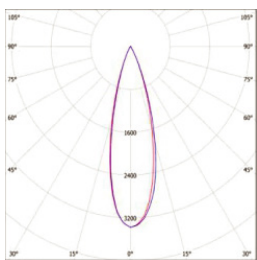
Operating Voltage: 170 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 10kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Colour temperature: 3000K or RGB optional
 Weight: 1.1kg, 1.7kg; 2,3kg; 3,5kg
 Dimming optional: Range 1% to 100%
 (DSI, DALI)

Product Code	Power	Colour Temp K	Luminous Flux (LM)
Architect Master 3	34W	4000K/5000K	4 100
Architect Master 4	67W	4000K/5000K	8 250
Architect Master 5	100W	4000K/5000K	12 600

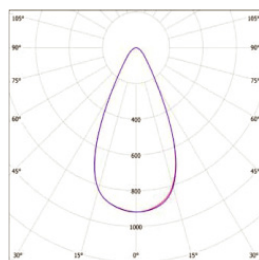
LED Code L90B10

Light Diagram

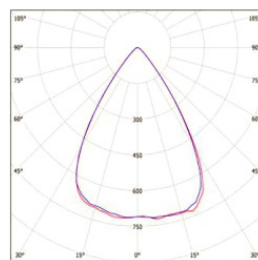
M



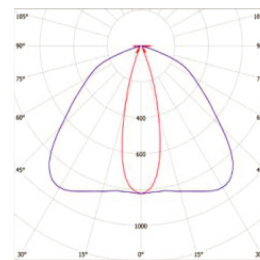
W



WW



O



M: A medium round beam with low glare and excellent cut-off, M is designed for high bay applications with high mounting heights.

W: Meets DLC high bay requirements. It has an optimal light distribution with a wide rectangular light pattern, low glare and excellent cut-off.

WW: Is an extra wide version of W, having a round light pattern with low glare and excellent cut-off. It can be used in high bay applications with lower mounting heights and also in low bay applications due to the width of its beam.

O: Is designed to be used in high bay applications with narrow spaces, for example corridors between shelves. O has an oval-shape beam with excellent cut-off.

120
L/W

VEGA FLOOD LIGHT

Generation 3



Pure Lights Vega Generation 3 range of flood lights, are designed for the illumination of exterior walls, bill boards and other exterior structures.

Ideal to use in all heights of up to 35m, to replace 50W, 100W, 150W, 250W, and 400W classical architectural flood lights.

All LED chips are encased in individual optic lenses, insuring light distribution is in the right direction with maximum efficiency, and minimum light pollution. The aluminum extrusion housing allows for installation in wet environments, including coastal areas with high levels of saline humidity (18-20µ anodization on the extruded profile).

VEGA GENERATION 3 FLOOD LIGHT SPECIFICATION



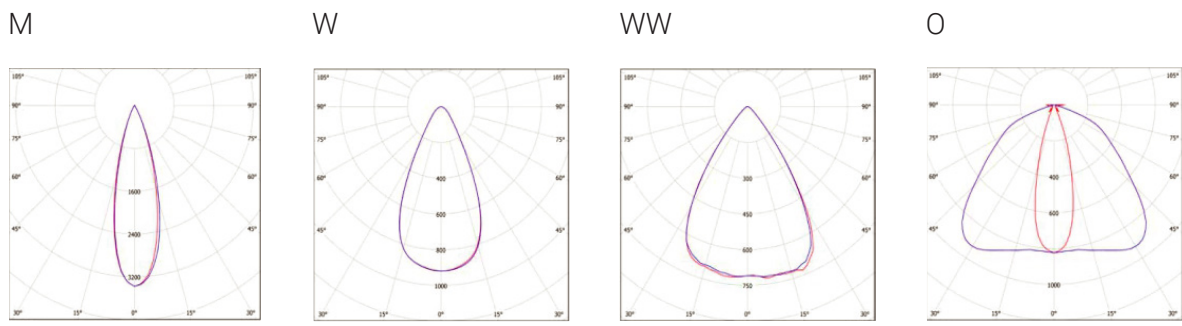
Operating Voltage: 170 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 40kV
 Power Factor: > 0.97
 CRI: +70 / Optional +80

LED Code L80B10

Product Name	Power	Colour Temp K	Luminous Flux (LM)	Product Code
Vega 1	32W	4000K/5000K	4 800	VG3-1-X-XK
Vega 2	64W	4000K/5000K	9 600	VG3-2-X-XK
Vega 3	97W	4000K/5000K	14 550	VG3-3-X-XK
Vega 4	130W	4000K/5000K	19 500	VG3-4-X-XK
Vega 6	192W	4000K/5000K	28 800	VG3-6-X-XK
Vega 9	288W	4000K/5000K	43 200	VG3-9-X-XK
Vega 12	384W	4000K/5000K	57 600	VG3-12-X-XK
Vega 15	485W	4000K/5000K	72 670	VG3-15-X-XK

Optional: Front hardened glass for extra protection

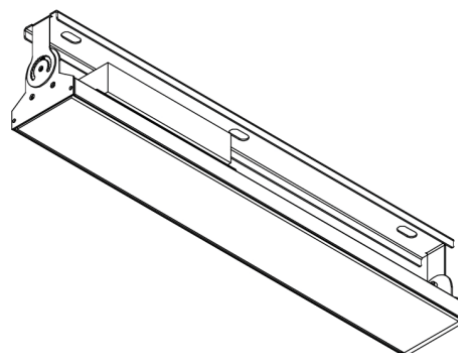
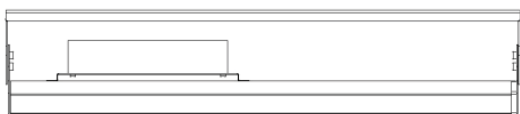
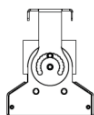
Light Diagram



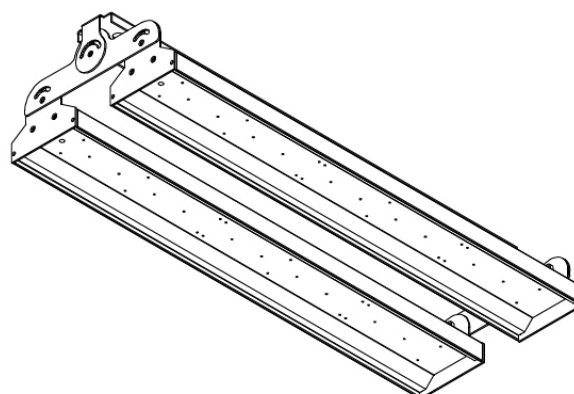
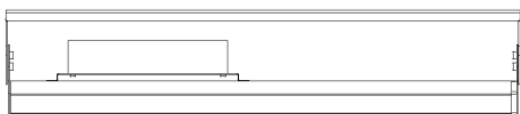
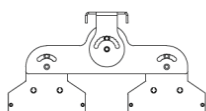
Area and car park lighting: Stadium and sports field lighting, high-mast lighting, floodlighting, symmetrical floodlighting.

Architectural outdoor lighting: Floodlighting, projector lighting, Industrial lighting, high bay lighting, mid bay lighting.

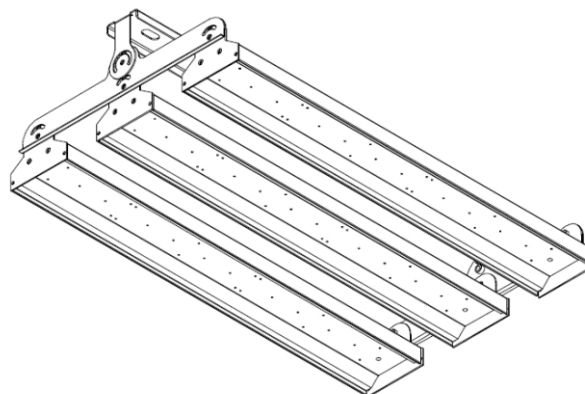
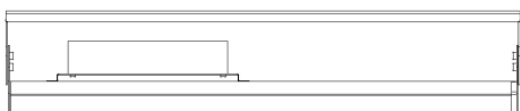
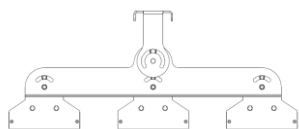
VEGA GENERATION 3 MODULAR DESIGN



Luminaire	Width	Height	Length
Vega 1	114mm	144mm	330mm
Vega 2	114mm	144mm	576mm
Vega 3	114mm	144mm	821mm



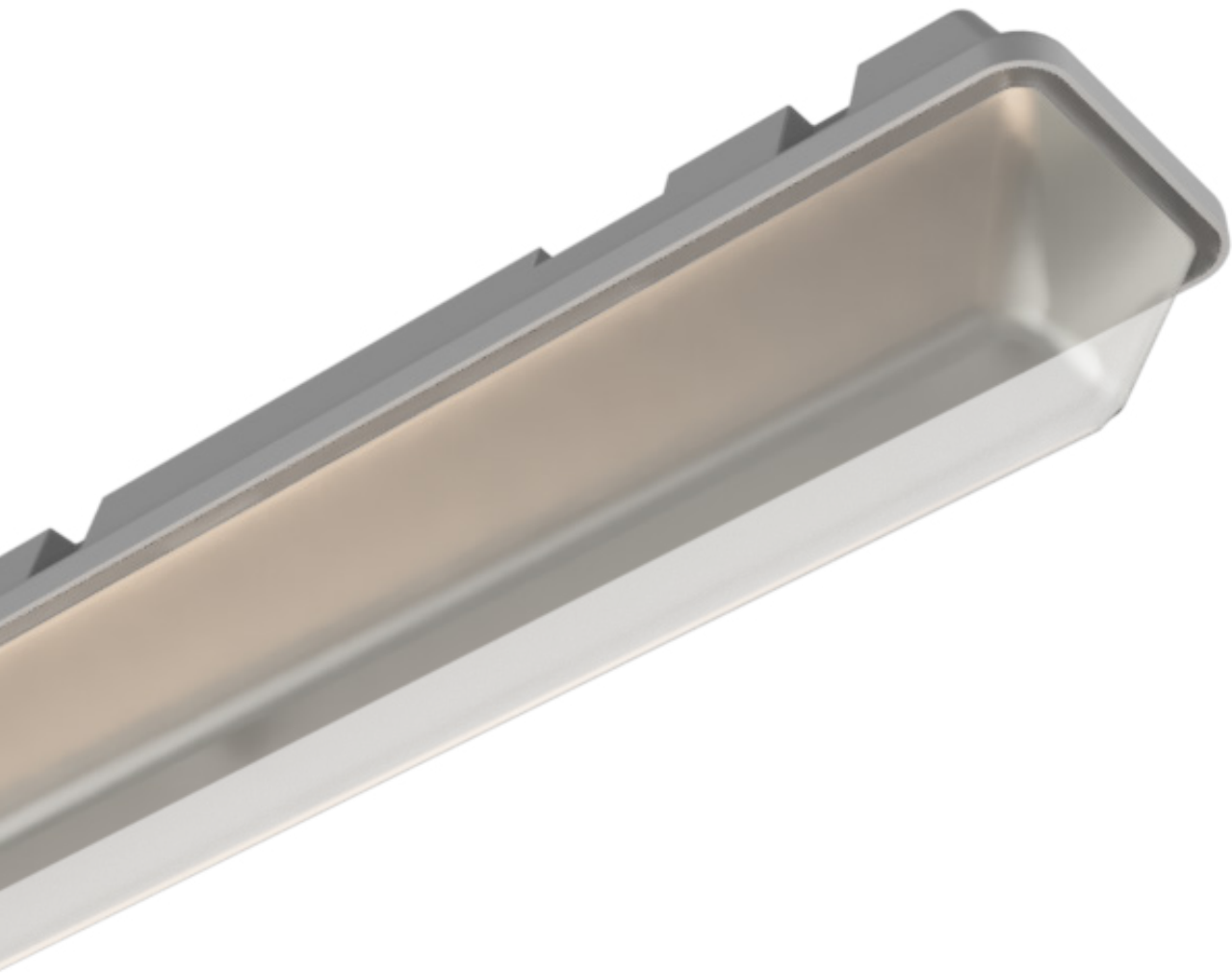
Luminaire	Width	Height	Length
Vega 4	280mm	142mm	576mm
Vega 6	280mm	142mm	821mm



Luminaire	Width	Height	Length
Vega 9	280mm	142mm	821mm
Vega 12	280mm	142mm	821mm
Vega 15	280mm	142mm	821mm

120
L/W

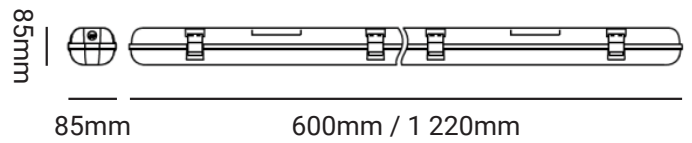
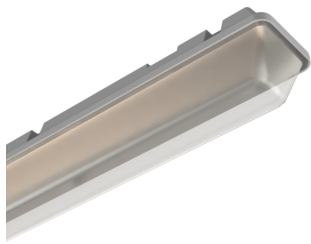
LED LINE IP65 VAPOUR PROOF



Pure Lights range of Led Line IP65 vapour proof lights are designed for the illumination of interior and exterior environments such as: hangars, warehouses, cold storage facilities, production and other workspaces.

Ideal to use in any environment with heights of up to 2,5m - 8m.

LED LINE IP65 VAPOUR PROOF SPECIFICATION



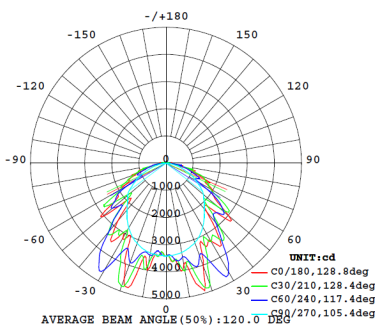
Operating Voltage: 170 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection up to 4kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Supplied with 120° beam angle
 Weight: 1.6kg / 2.1kg

LED Code L90B10

Product Code	Power	Colour Temp K	Luminous Flux (LM)
Led Line IP65-22	22W	4000k/5000K	2 000
Led Line IP65-32	32W	4000k/5000K	3 050
Led Line IP65-44	44W	4000k/5000K	4 100
Led Line IP65-88	88W	4000k/5000K	8 200

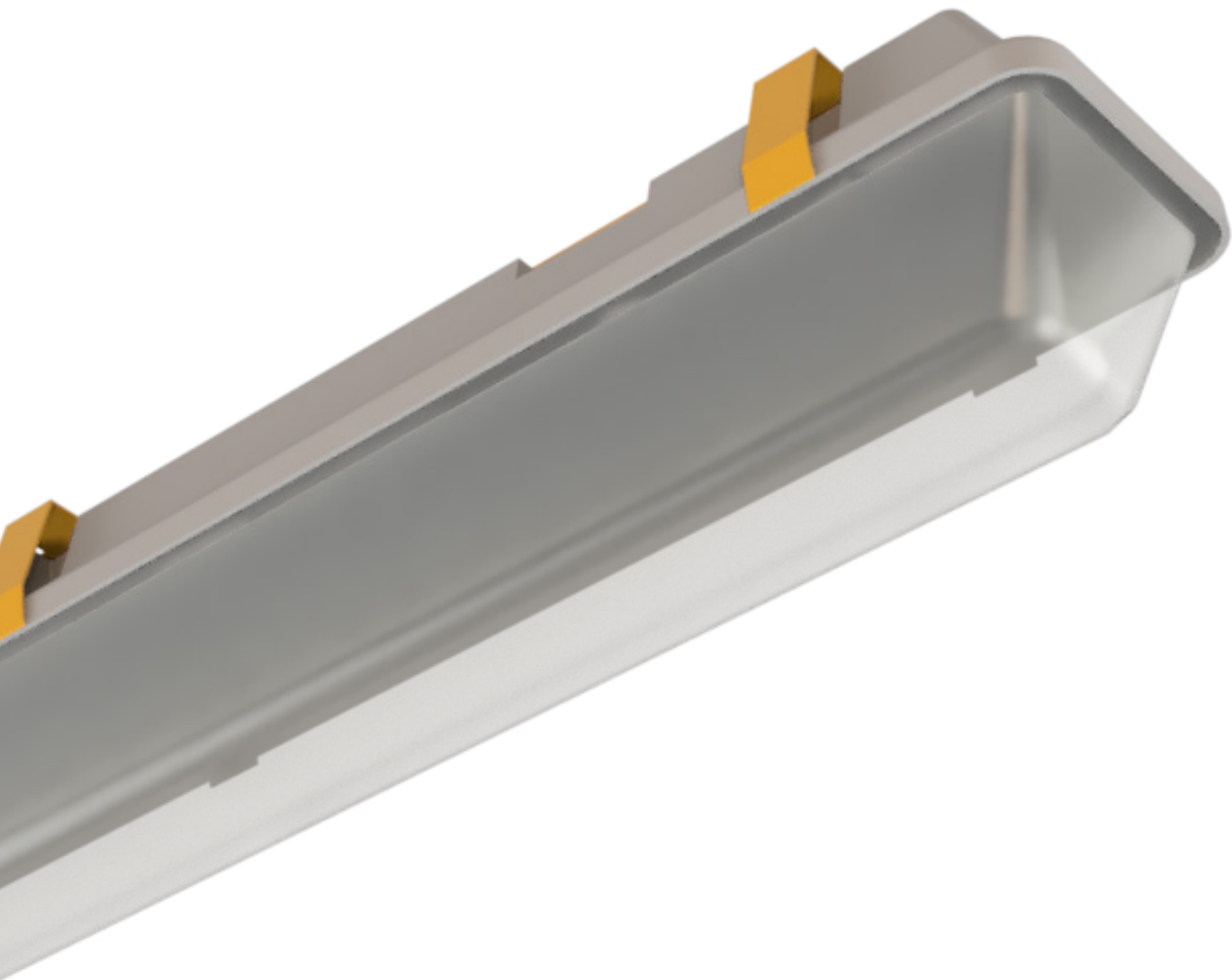
Light Diagram

120°



120
L/W

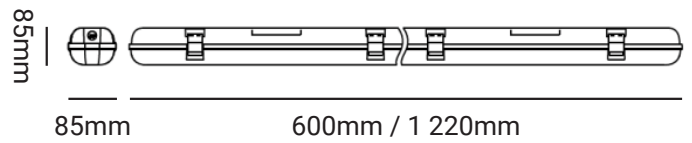
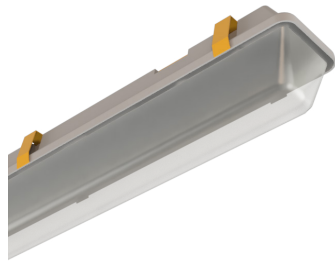
LED LINE EX EB IP65 VAPOUR PROOF



Led Line EX EB IP65 family of vapour proof lights designed for illumination of interior and exterior premises with ratings of Zone 1 and Zone 2. The range carries accredited MASC certification.

Ideal to use in any environment with heights 2,5m to 8m.

LED LINE IP65 VAPOUR PROOF SPECIFICATION



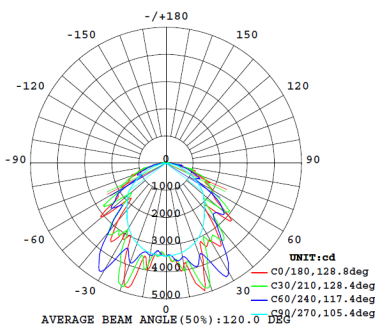
Operating Voltage: 170 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection up to 4kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Supplied with 120° beam angle
 Weight: 1.6kg / 2.1kg

Product Code	Power	Colour Temp K	Luminous Flux (LM)
Led Line EX EB IP65-44	44W	4000k/5000K	4 100
Led Line EX EB IP65-88	88W	4000k/5000K	8 200

LED Code L90B10

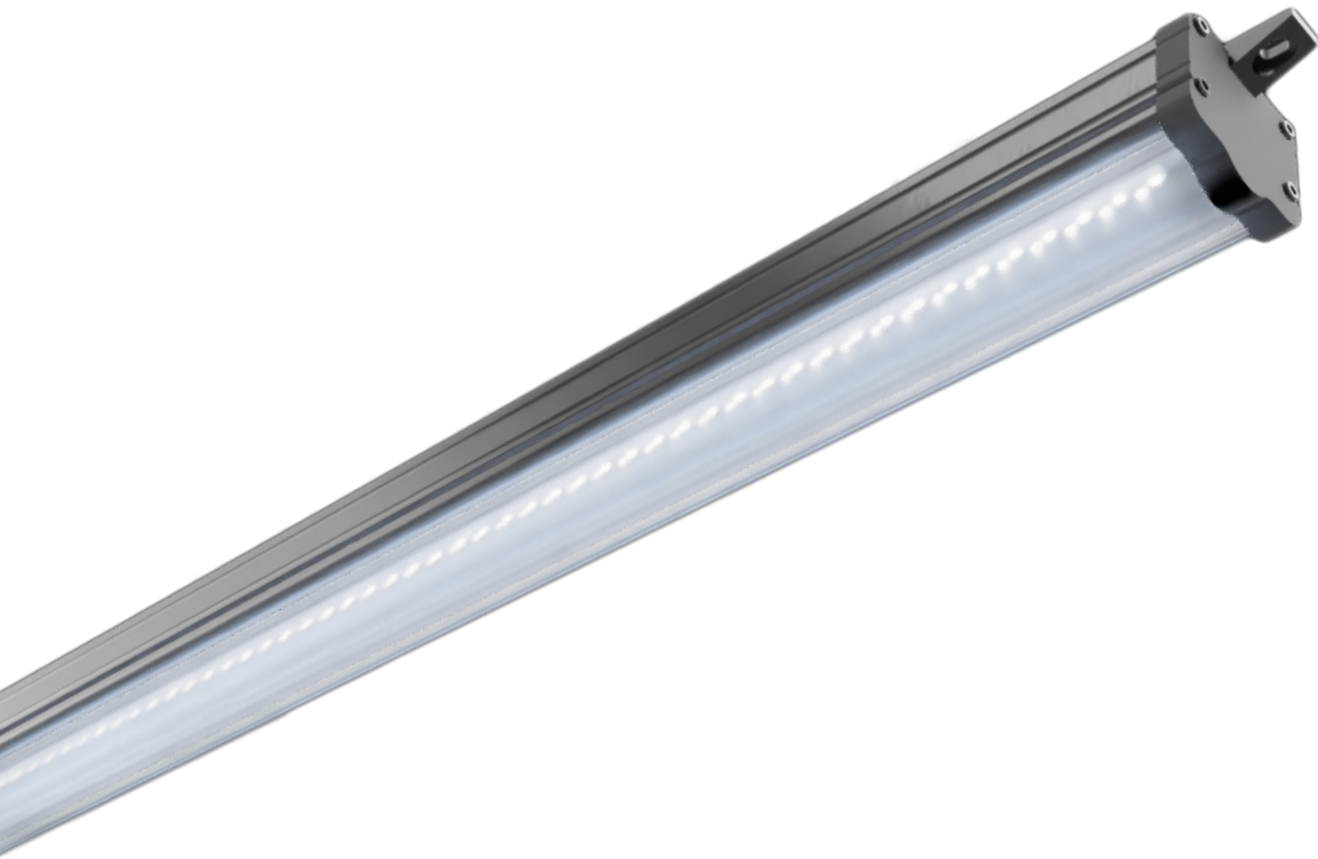
Light Diagram

120°



140
L/W

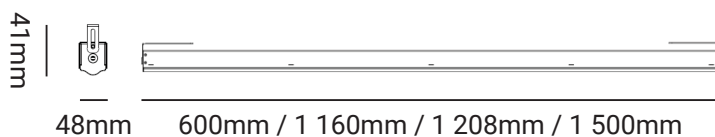
BASE LED LOW BAY



Pure Lights Base LED range of low bays lights, are designed for the illumination of interior environments such as: hangars, warehouses, cold storage facilities, passages, production premises and other low bay spaces.

Ideal to use in any environment with heights of up to 2,5m to 8m.

BASE LED LOW BAY SPECIFICATION



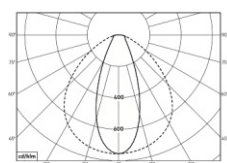
Operating Voltage: 198 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection up to 2kV
 Power Factor: > 0.97
 CRI: +70 / +80
 Supplied with 60° and 90° beam angle optics
 Colour temperature: 3000K, 4000K optional
 Weight: 1.1kg

LED Code L80B10

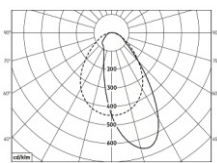
Product Code	Power	Colour Temp K	Luminous Flux (LM)
Base Led 16	16W	5000K	2 350
Base Led 22	22W	5000K	3 500
Base Led 32	32W	5000K	4 700
Base Led 44	44W	5000K	7 000
Base Led 56	56W	5000K	8 250

Light Diagram

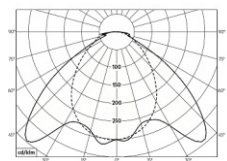
30° - 60° - 90°



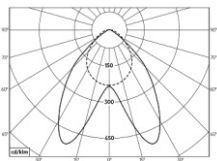
Asymmetric



Bat-wing



Double Asymmetric



Optional Items

Code

Image

P2000 Hook

CS00161-005-11



High transmission diffuser transparent 94 %

High transmission diffuser semi-trans 87 %

High transmission diffuser matt 76 %

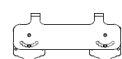
D4i driver /

Awada LMS Wireless

D4i

Base LED Low Bay lights can be combined in clusters of 2, 3 and 4 luminaires in a set. Each light can be turned on angle of 15°, 30° and 45° and fixed in its position.

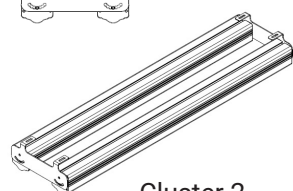
106mm



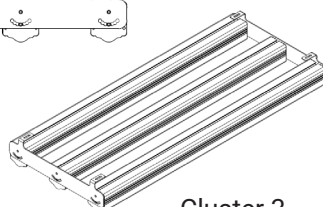
256mm



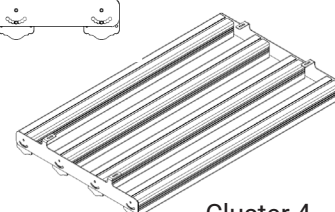
362mm



Cluster 2



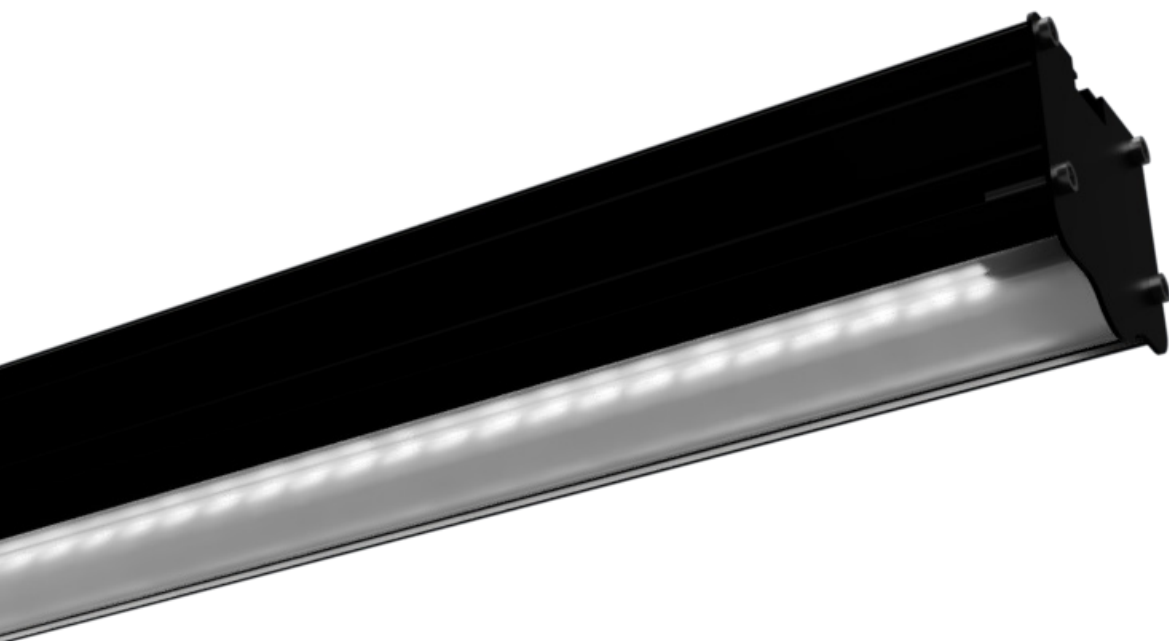
Cluster 3



Cluster 4

140
L/W

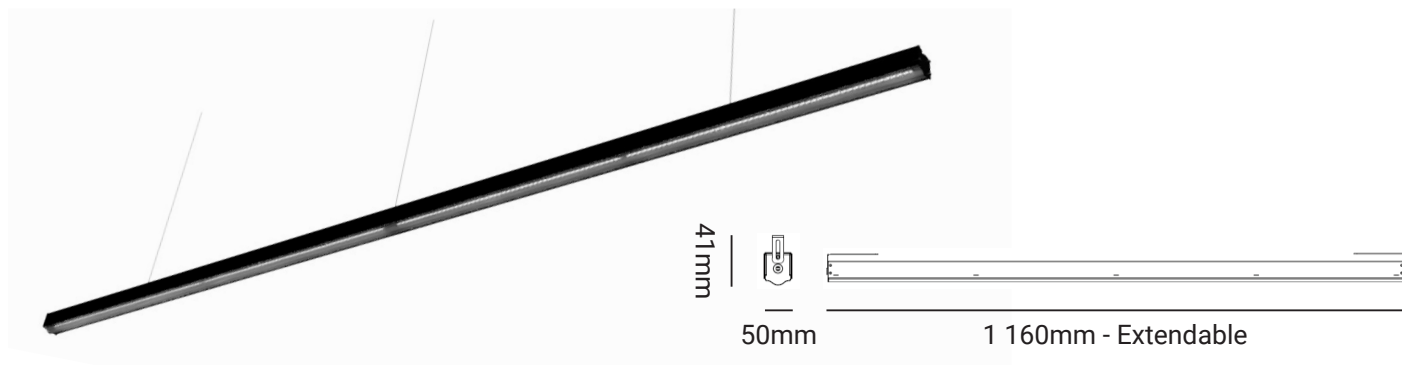
LINEAR LOW BAY



Linear family of low bays lights designed for illumination of interior premises in retail spaces such as, shops, corridors, isles, and other interior low bay areas.

Ideal to use in any environment with heights 2,5m to 6m.

BASE LED LOW BAY SPECIFICATION



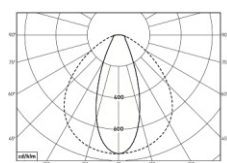
Operating Voltage: 198 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection up to 2kV
 Power Factor: > 0.97
 CRI: +70 / +80
 Supplied with 60° and 90° beam angle optics
 Colour temperature: 3000K, 5000K optional
 Weight: 1.1kg

Product Code	Power	Colour Temp K	Luminous Flux (LM)
Linear Low Bay	42W	4000K	6 300

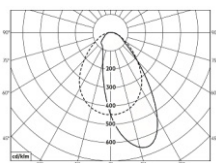
LED Code L80B10

Light Diagram

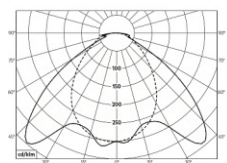
30° - 60° - 90°



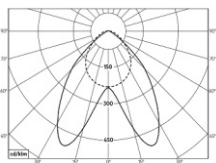
Asymmetric



Bat-wing



Double Asymmetric



Optional Items

Code

Image

P2000 Hook

CS00161-005-11



High transmission diffuser transparent 94 %

High transmission diffuser semi-trans 87 %

High transmission diffuser matt 76 %

D4i driver /

Awada LMS Wireless

D4i

125
L/W

STREET MASTER



Pure Lights range of high illumination parking and street lights, equivalent to 70W and 125W HPS. Ideal to use for heights of up to 5m to 8m.

STREET MASTER SPECIFICATION



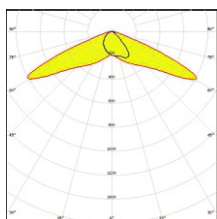
Operating Voltage: 198 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 10kV / 40kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Colour temperature: 3000K, 5000K optional
 Weight: 2.5kg

LED Code L90B10

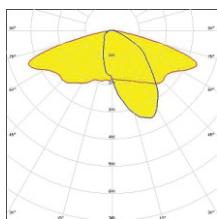
Product Code	Power	Colour Temp K	Product Code
Street Master 1	34W	4000k/5000K	SM1Su-X-XK
Street Master 2	67W	4000k/5000K	SM2Su-X-XK
Street Master 3	99W	4000k/5000K	SM3Su-X-XK

Light Diagram

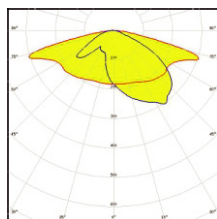
T1 A



T2



T3



T1 A - Asymmetric IESNA Type I (short) beam designed for tilted poles.

T2 - IESNA Type II (medium) beam, applicable for European P-class standard pedestrian lighting and M-class roads.

T3 - IESNA Type III (medium) beam for roads that are equal to or wider than mounting height.

150
L/W

PARKING MASTER



High Brightness for parking areas in shopping centers, office parks, business park and other spaces with parking areas. Equivalent to 70W and 150W HPS.

Ideal to use for heights up to 4m

PARKING MASTER SPECIFICATION

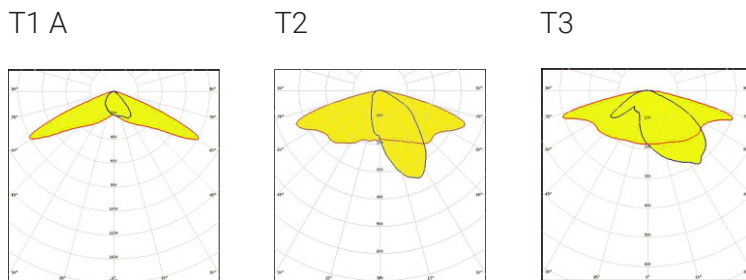


Operating Voltage: 198 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 10kV / 40kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Colour temperature:
 3000K, 5000K optional
 Weight: 2.5kg

Product Code	Power	Colour Temp K	Luminous Flux (Lm)	Product Code
Parking Master 1	32W	4000k/5000K	4 800	SM1Su-X-XK
Parking Master 1 x2	64W	4000k/5000K	9 600	SM2Su-X-XK

LED Code L90B10

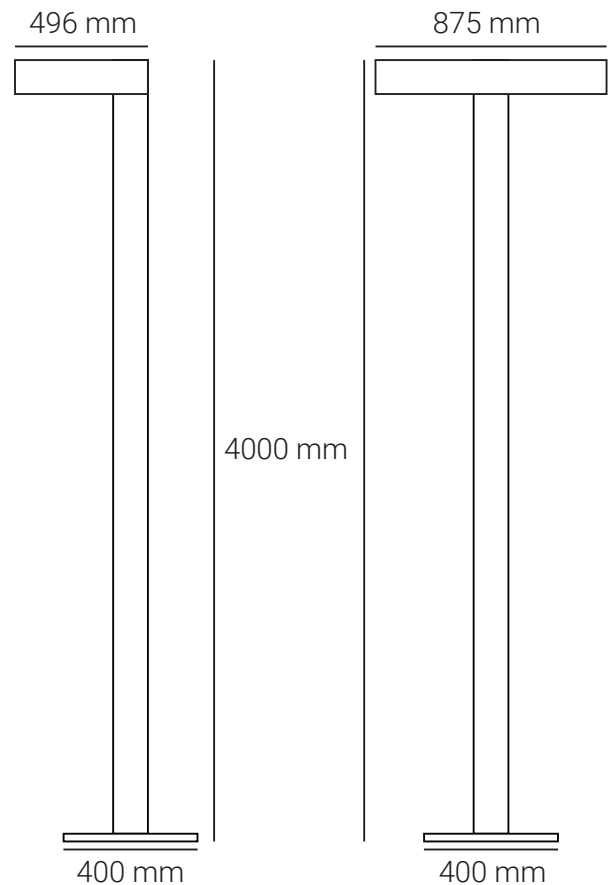
Light Diagram



T1 A - Asymmetric IESNA Type I
 (short) beam designed for tilted poles.

T2 - IESNA Type II (medium) beam, applicable for European P-class standard pedestrian lighting and M-class roads.

T3 - IESNA Type III (medium) beam for roads that are equal to or wider than mounting height.



125
L/W

STREET VEGA



Pure Lights range High illumination parking and street lights, equivalent to 70W and 125W HPS. Ideal to use for heights of up to 5m to 8m.

STREET VEGA SPECIFICATION



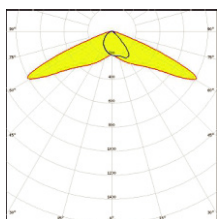
Operating Voltage: 198 ~264VAC
 Over-voltage Protection: 320V AC, 48h
 Burst/Surge Protection: 40kV
 Power Factor: > 0.97
 CRI: +70 / +80 optional
 Colour temperature: 3000K and
 5000K optional
 Weight: 5kg

Product Code	Power	Colour Temp K	Luminous Flux (LM)	Product Code
Street Vega 4	135W	4000k/5000K	19 600	SV-X-XK
Street Vega 5	166W	4000k/5000K	23 950	SV5-X-XK
Street Vega 6	200W	4000k/5000K	28 200	SV6-X-XK

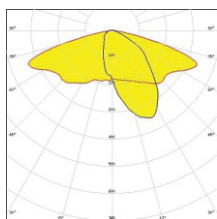
LED Code L90B10

Light Diagram

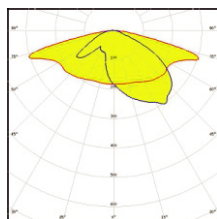
T1 A



T2



T3



T1 A - Asymmetric IESNA Type I (short) beam designed for tilted poles.

T2 - IESNA Type II (medium) beam, applicable for European P-class standard pedestrian lighting and M-class roads.

T3 - IESNA Type III (medium) beam for roads that are equal to or wider than mounting height.



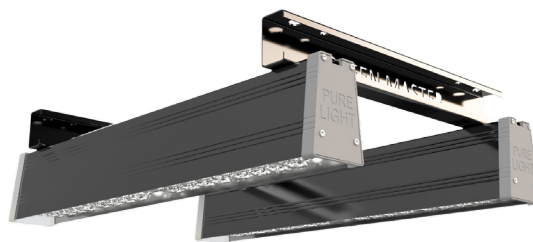
HORTICULTURAL LIGHTING

Modular horticultural led lights designed for plant growth, seeding, flowering and fruiting. Scalable from single bar to modular design, able to satisfy needs of any cultivators from home based to large-scale industrial green-house farming projects

GREEN MASTER HORTICULTURE LIGHT

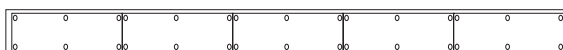
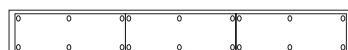
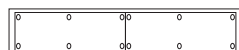
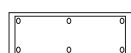


Photon Flux Efficacy:	2,87µmol/J /360-780nm
Operating Voltage:	196 ~264VAC
Over-voltage Protection:	320V AC, 48h
Burst/Surge Protection:	2kV to 4kV
Power Factor:	> 0.97
Driver:	Internal, industrial
Thermal Management:	Passive
Optics:	30°, 60°, 90°
Dimming:	1% to 100% (DSI, DALI2)
LED Code:	L80B10



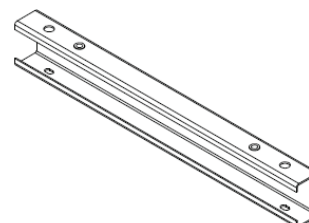
Single Bar

Model	Power	Length	Product Code
Green Master 1	34W	260mm	GM1-X-XK
Green Master 2	67W	525mm	GM2-X-XK
Green Master 3	100W	790mm	GM3-X-XK
Green Master 4	137W	1055mm	GM4-X-XK
Green Master 5	170W	1315mm	GM5-X-XK



FRAME FOR MODULAR DESIGN

Model	Length	Product Code
Frame for 2 lights	370mm	HF2
Frame for 3 lights	560mm	HF3
Frame for 4 lights	740mm	HF4



AUTOMATION

AWADA Light Management System offered for large scale commercial installation. System automatically follows predetermined schedule and adjust brightness. Easily set and controlled via smart phone or tablet.

ACCESSORIES

Luminaires supplied with mounting accessories, enabling easy and fast installation on any surface, cabling tray or P2000 trunking. Suspension kit with adjustable length cables provided for suspension installations.

GREEN BASE HORTICULTURE LIGHT

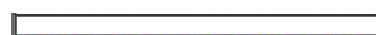


Photon Flux Efficacy:	2,26µmol/J /360-780nm
Operating Voltage:	196 ~264VAC
Over-voltage Protection:	320V AC, 48h
Burst/Surge Protection:	2kV
Power Factor:	> 0.97
Driver:	Internal, industrial
Thermal Management:	Passive
Optics:	60°, 90°, symmetric
Dimming:	1% to 100% (DSI, DALI2)
LED Code:	L80B10



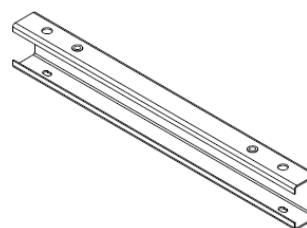
Single Bar

Model	Power	Length	Product Code
Green Base 1	34W	260mm	GB1-X-XK
Green Base 2	67W	525mm	GB2-X-XK
Green Base 3	100W	790mm	GB3-X-XK



FRAME FOR MODULAR DESIGN

Model	Length	Product Code
Frame for 2 lights	370mm	HF2
Frame for 3 lights	560mm	HF3
Frame for 4 lights	740mm	HF4



AUTOMATION

AWADA Light Management System offered for large scale commercial installation. System automatically follows predetermined schedule and adjust brightness. Easily set and controlled via smart phone or tablet.

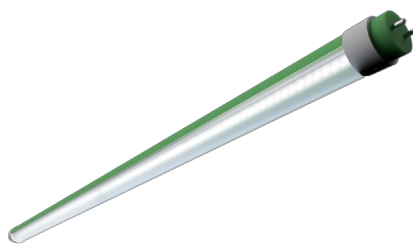
ACCESSORIES

Luminaires supplied with mounting accessories, enabling easy and fast installation on any surface, cabling tray or P2000 trunking. Suspension kit with adjustable length cables provided for suspension installations.

HORTICULTURE LED TUBE – LOW VOLTAGE



Operating Voltage: 24VDC
Power Factor: > 0.95
Driver: External, 24V
Thermal Management: Passive
Optics: symmetric
LED Code: L80B10

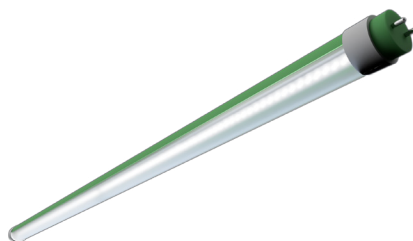


Model	Power	Colour Spec	Length	Product Code
Horti Led Tube 1 - LV	30W	80% - 4000K; 25% - Hyper Red	1160mm	HLT1-LV-804K25HR
Horti Led Tube 2 - LV	30W	80% - 4000K; 25% - Hyper Red	1160mm	HLT2-LV-804K25FR
Horti Led Tube 3 - LV	30W	80% - 4000K; 25% - Hyper Red	1500mm	HLT3-LV-804K25HR
Horti Led Tube 4 - LV	30W	80% - 4000K; 25% - Hyper Red	1500mm	HLT4-LV-804K25FR

HORTICULTURE LED TUBE – LOW VOLTAGE



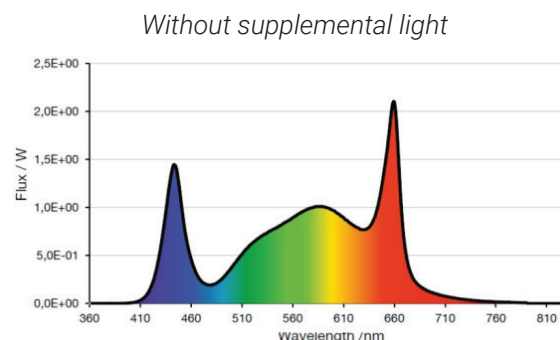
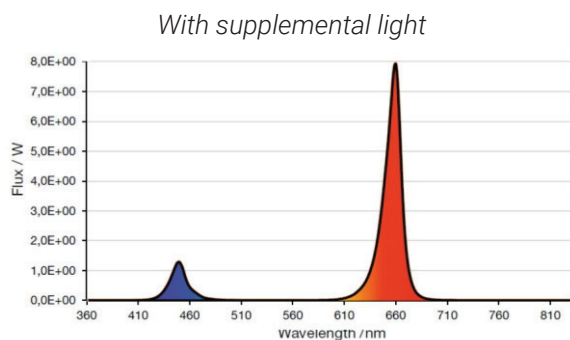
Operating Voltage: 220VAC
Power Factor: > 0.95
Driver: Internal, On-board
Thermal Management: Passive
Optics: Symmetric
LED Code: L80B10



Model	Power	Colour Spec	Length	Product Code
Horti Led Tube 1 - HV	40W	50% - 4000K; 50% - Hyper Red	1160mm	HLT1-LV-804K25HR
Horti Led Tube 2 - HV	40W	50% - 4000K; 25% - Far Red; 25% - Hyper Red	1160mm	HLT2-LV-804K25FR
Horti Led Tube 3 - HV	50W	50% - 4000K; 50% - Hyper Red	1500mm	HLT3-LV-804K25HR
Horti Led Tube 4 - HV	50W	50% - 4000K; 25% - Far Red; 25% - Hyper Red	1500mm	HLT4-LV-804K25FR

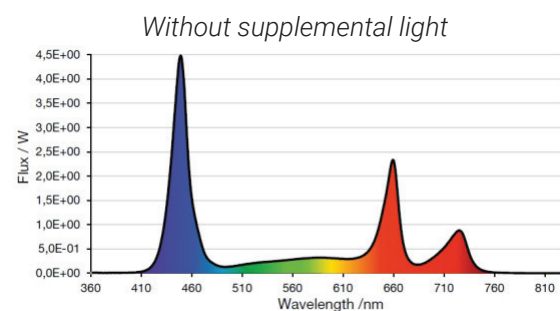
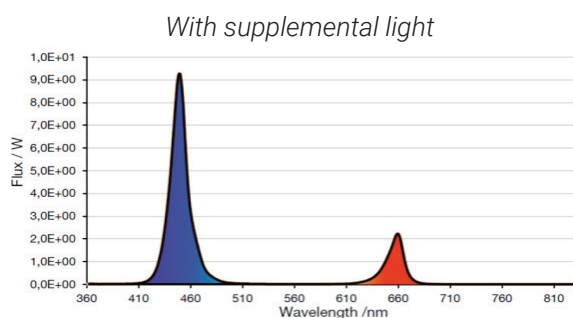
For Plant Growth

Efficient creation of photons in photo synthetic active region of 400-700nm. Especially in high absorption region around 450nm and 660nm.



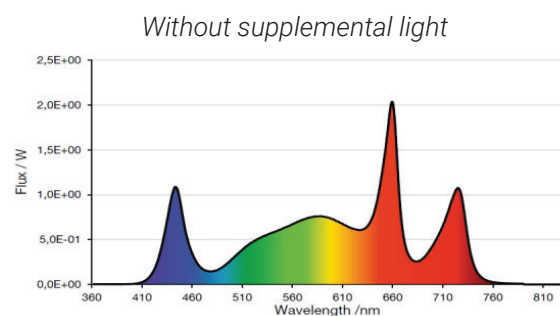
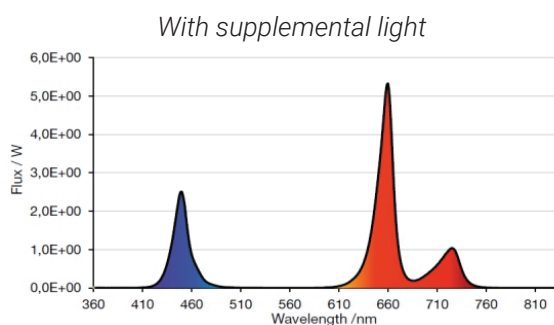
For Seeding

Seedlings need high blue content (450nm) to start germination and sprouting. This can also be supported by far red light (730nm).



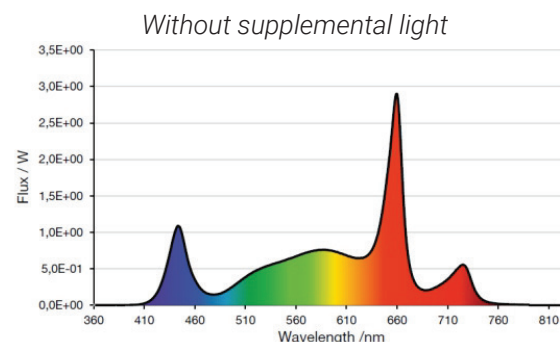
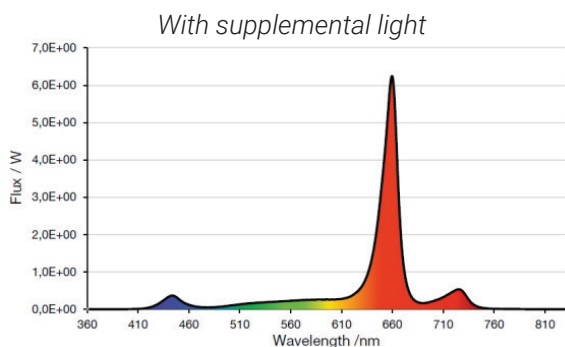
For Flowering

To induce flowering a significant content of far red light (730nm) is necessary. Most important for flowering time is day length.



For Fruiting

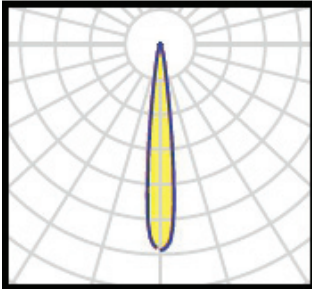
During fruiting the plant needs a high amount of energy to create the fruit body. A high amount of light for photosynthesis should be provided.



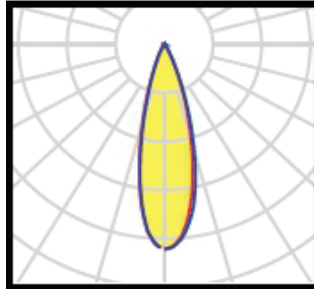
GENERATION 1 OPTICS: RECIPES FOR MASTER AND VEGA RANGES

High Bay Lighting

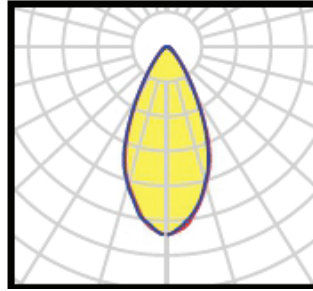
RS - 10°



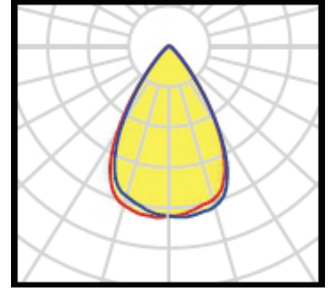
M - 25°



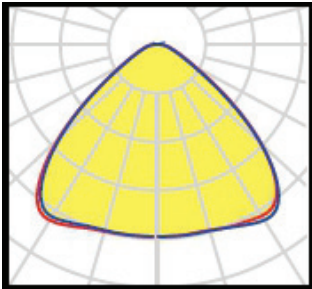
W - 51°



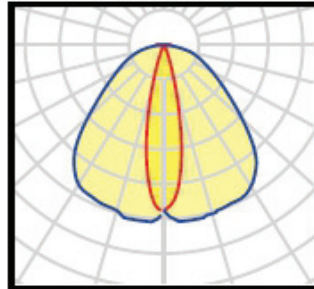
WW - 65°



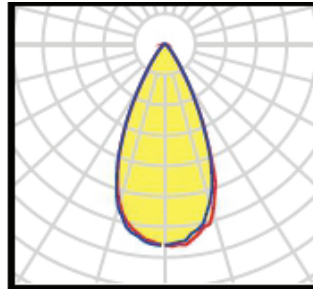
WWW - 65°



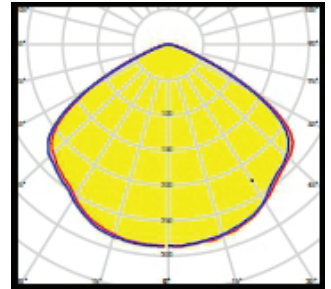
O - 19°+117°



RW - 51°

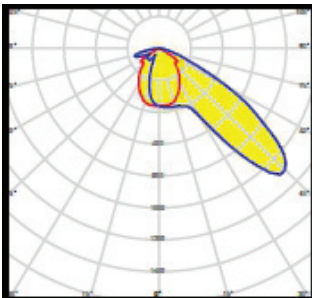


CY

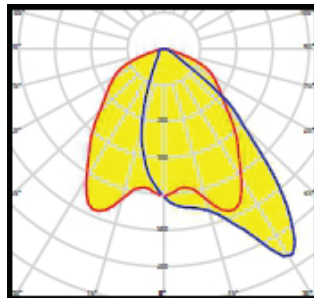


Area Lighting

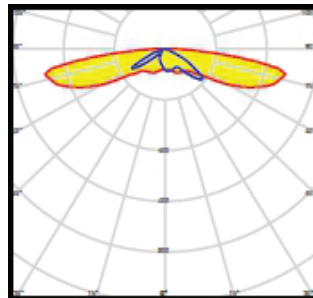
FN - Forward Narrow Beam



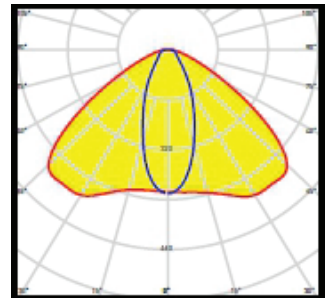
DN - Forward wide beam



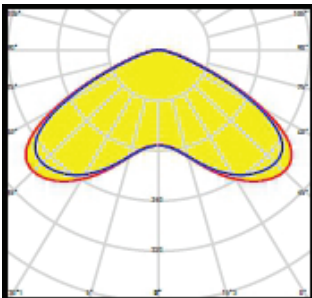
XW - Wide beam



B2 - TSP

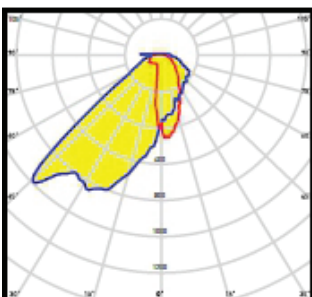


C - TSP

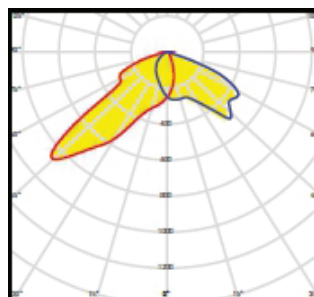


Pedestrian Crossing Lighting

PX - For right side traffic

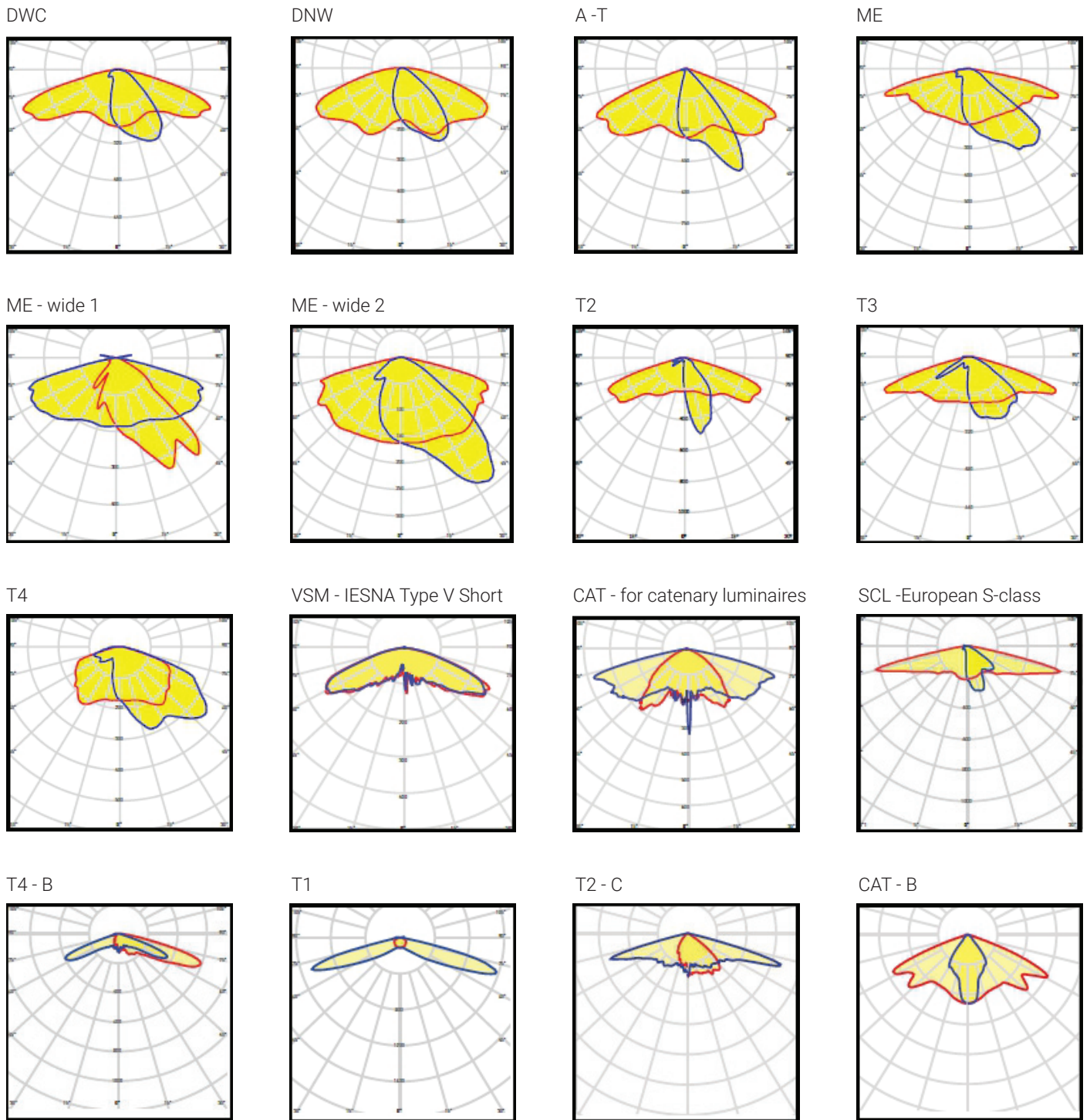


PXL - For left side traffic

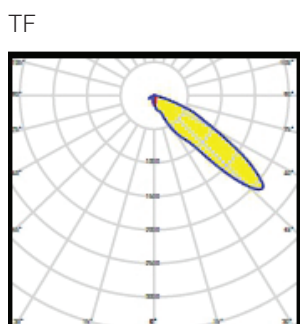


GENERATION 1 OPTICS: RECIPES FOR MASTER AND VEGA RANGES

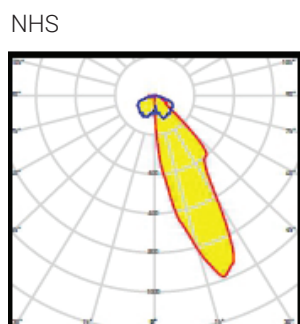
Street Lighting



Tunnel lighting



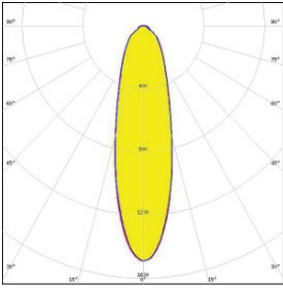
Urban lighting, minimal back-light



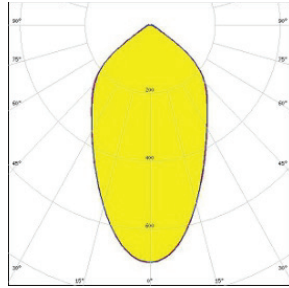
GENERATION 2&3 OPTICS: RECIPES FOR MASTER AND VEGA RANGES

High Bay Lighting

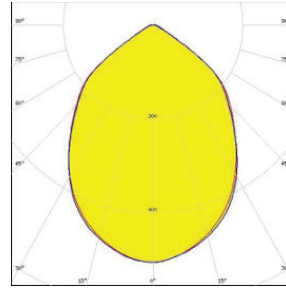
S- ~ 25° spot beam



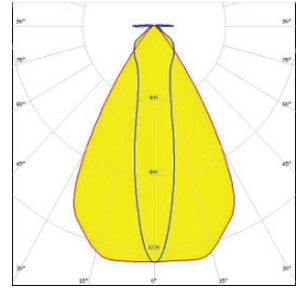
M ~ 60° spot beam



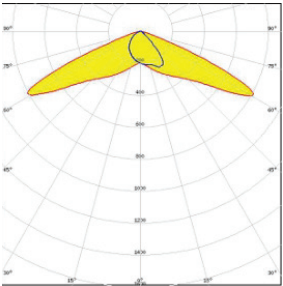
W ~ 90° spot beam



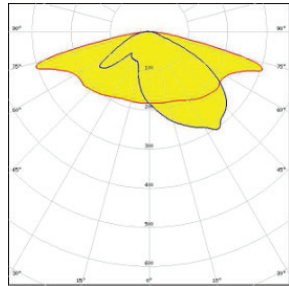
O ~ 63° + 20° spot beam



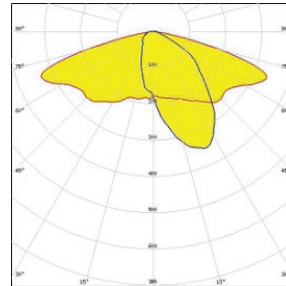
T1 - A



T3



T2



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