



LEADER LIGHT

LL Architectural LED lighting



LEADER LIGHT official supplier for:

EURO  **VISION**
SONG CONTEST
MALMÖ 2013





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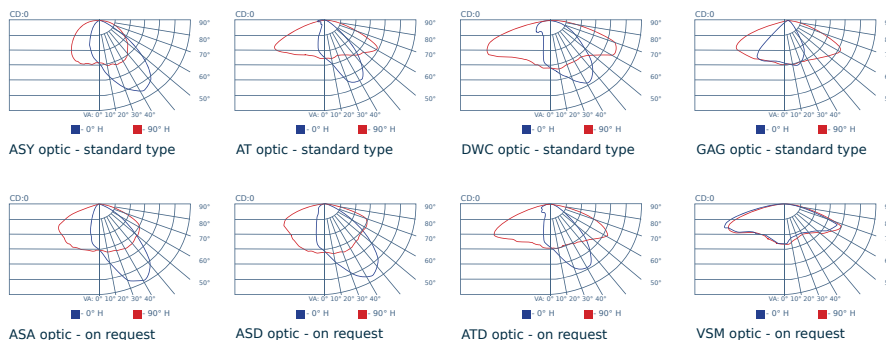


LL STREET is a comprehensive conception for all types of street lighting applications. The modern LED street luminaires meet the highest criteria of efficient lighting of roads, actively help to achieve energy saving in range of 65–70% and also the objectives of low-carbon strategies of cities and villages. LL STREET making the streets brighter, improve visual conditions and increase safety.

In addition to the standard benefits of LED technology such as low power consumption, high efficiency, very long lifespan, 100% recyclability, vibration resistance, easily control, LL STREET have many premium parameters:

- the alluminium body serves also as a cooler and ensures optimal temperature parameters
- wide choice of special optics allows universal application
- the optical part without any useless cover glass increases optical efficiency of luminaire and simplifies maintenance
- LEDs located in one platform reduce obtrusive light pollution, glare and also radiation into the sky
- precise setting of demanded output power

Photometry



LEADER LIGHT street luminaires family:

LL STREET PS/CS – luminaires for energy efficient street lighting

LL STREET PC/CC – luminaires for crosswalk lighting

LL STREET WALL – special wall mounted street luminaires

LL STREET SMART – exclusive street luminaires with dimming function and diagnostic options



Basic models

Class I	Lifespan (hours)		Weight (kg)
	Ta 25°	Ta 15°	
LL STREET PS60-NA-O67-09-20W-GAG-40K-C75	70 000	90 000	2,70
LL STREET PS60-NA-O67-08-30W-GAG-40K-C75	55 000	75 000	3,50
Class II *			
LL STREET CS56-NA-O67-09-16W-AT-40K-C75	100 000	150 000	2,70
LL STREET CS56-NA-O67-09-25W-AT-40K-C75	90 000	130 000	2,70
LL STREET CS82-NA-O67-18-25W-AT-40K-C75	100 000	150 000	3,50
LL STREET CS82-NA-O67-18-40W-AT-40K-C75	90 000	130 000	4,50
LL STREET CS82-NA-O67-18-60W-AT-40K-C75	80 000	110 000	4,50

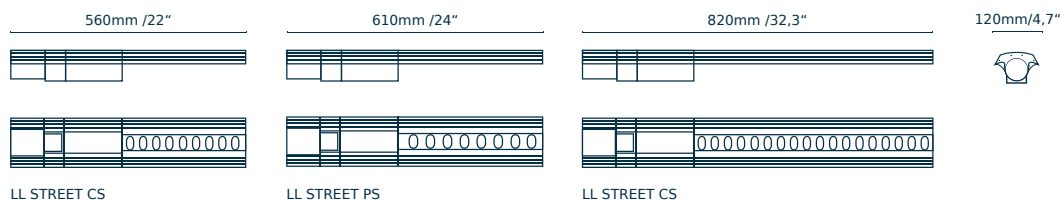
Accessories

LL STREET ADAPTER TOP 060 0° (Optional 5°, 10°, 15°)

LL STREET ADAPTER 76/60mm (Optional 50/60mm)

* optional electronic modules LL RIS CLO/DLO/IQ

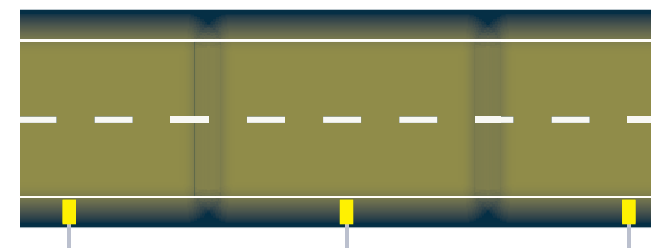
Dimensions



Technical specification

- Ambient temp. (Ta): -30°C (-22°F) < Ta < +40°C (104°F)
- Body: IK10
- Cooling: conventional

LL STREET PS/CS is a basic model of road luminaire. This modern LED luminaire, with its minimalist design, satisfy the primary requirements for energy-efficient lighting solution in most types of roads of towns and villages.



Applications

- major roads and streets
- city centers, public areas
- residential areas
- parking lots, pedestrian zones
- industry areas

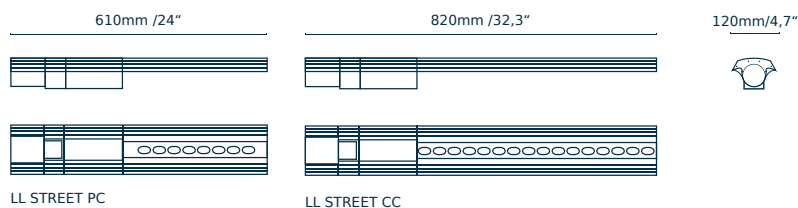
LL	STREET	PS60		NA	O67	09	20W	GAG	40K	C75	
		P	S60								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	STREET	P: 20W:AC90-277V; 47-63Hz; On/Off 30W ÷ 60W:AC90-264V; 47-63Hz; On/Off, Class I C: AC90-305V; 47-63Hz; On/Off, Class II	S: side pole entry Ø 60mm (2,36")	56: 560mm 60: 610mm 82: 820mm	NA: natural anodized aluminium Optional: BL: black anodized aluminium	O67: Outdoor IP67	08: 8x LED 09: 9x LED 18: 18x LED	30W 16/20/25W 25/40/60W	GAG: 79°x141° ASY: 58°x94° DWC: 74°x148° ATD: 68°x137° ASD: 64°x136° ASA: 60°x122° AT: 52°x129° VSM: 140°x140°	30K: 3000K 40K: 4000K 50K: 5000K	C75: CRI 75 C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.



LL STREET PC / CC is a specially designed LED luminaire for crosswalks illumination. Its use will increase pedestrian visibility and safety, drivers ride comfort.

Dimensions



Technical specification

- Ambient temp. (Ta): -30°C (-22°F) $< \text{Ta} < +40^{\circ}\text{C}$ (104°F)
- Body: IK10
- Cooling: conventional

Basic models

Class I	Lifespan (hours)		Weight (kg)
	Ta 25°	Ta 15°	
LL STREET PC60-NA-O67-08-30W-GAG90*60K-C75	55 000	75 000	3,50
Class II **			
LL STREET CC82-NA-O67-08-25W-GAG90*60K-C75	100 000	150 000	4,50
LL STREET CC82-NA-O67-16-40W-GAG90*60K-C75	90 000	130 000	4,50
LL STREET CC82-NA-O67-16-60W-GAG90*60K-C75	70 000	100 000	4,50

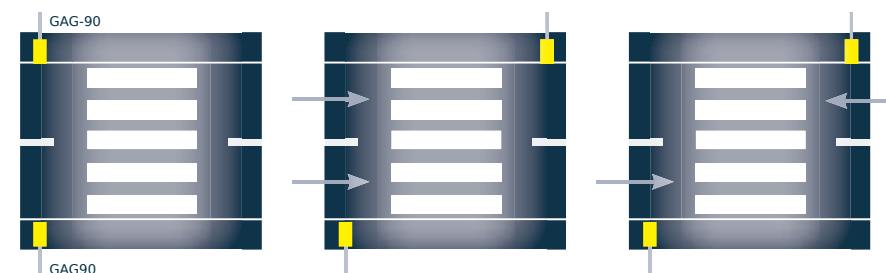
Accessories

LL STREET ADAPTER TOP 060 0° (Optional 5°, 10°, 15°)

LL STREET ADAPTER 76/60mm (Optional 50/60mm)

* optional GAG-90

** optional electronic module LL RIS CLO



Applications

- crosswalks

LL	STREET	PC60			NA	O67	08	30W	GAG90	60K	C75
		P	C60								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	STREET	P: AC90-264V; 47-63Hz; On/Off, Class I C: AC90-305V; 47-63Hz; On/Off, Class II	C: side pole entry Ø 60mm (2,36") for crosswalks	60: 610mm 82: 820mm	NA: natural anodized aluminium Optional: BL: black anodized aluminium	O67: Outdoor IP67	08: 8x LED 16: 16x LED	25/30W 40/60W	GAG90: 141°x79° AT90: 129°x52°	30K: 3000K 40K: 4000K 50K: 5000K 60K: 6000K	C75: CRI 75 C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.

Basic models

Class I	Lifespan (hours) L70		Weight (kg)
	Ta 25°	Ta 15°	
LL STREET PW52-NA-O67-08-30W-ASY90-40K-C75	55 000	75 000	3,50
Class II *			
LL STREET CW52-NA-O67-09-16W-ASY90-40K-C75	100 000	150 000	3,50
LL STREET CW82-NA-O67-18-25W-ASY90-40K-C75	100 000	150 000	4,50
LL STREET CW82-NA-O67-18-40W-ASY90-40K-C75	100 000	150 000	4,50

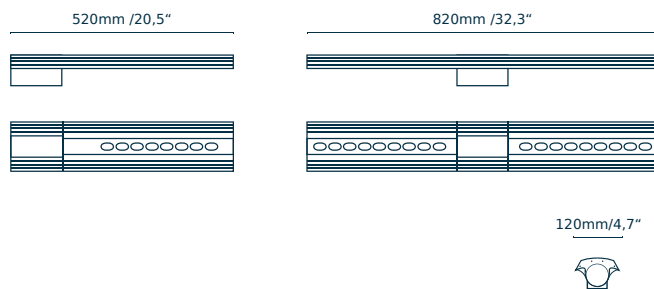
* optional electronic modules LL RIS CLO/DLO/IQ

LL STREET PW / CW is a specially designed LED street luminaire. Thanks to special ASY optic, with soft diffusion, it gives the possibility to install the luminaire on low height of wall and acoustic wall close to the road.

It's designed to illuminate the tunnels, roads, flyovers and underpasses.

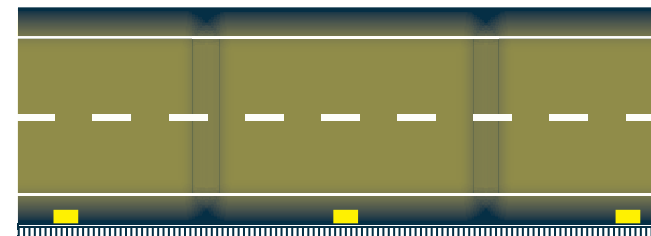


Dimensions



Applications

- major roads and streets
- parking lots, pedestrian zones
- tunnels



Technical specification

- Ambient temp. (Ta): -30°C (-22°F) < Ta < +40°C (104°F)
- Body: IK10
- Cooling: conventional

LL	STREET	PW52		NA		O67	08	30W	ASY90	40K	C75
		P	C60								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	STREET	P: AC90-264V; 47-63Hz; On/Off, Class I C: AC90-305V; 47-63Hz; On/Off, Class II	W: on the wall	52: 520mm 82: 820mm	NA: natural anodized aluminium Optional: BL: black anodized aluminium	O67: Outdoor IP67	08: 8x LED 09: 9x LED 18: 18x LED	30W 16W 25/40W	ASY90: 94°x58° AT90: 129°x52°	30K: 3000K 40K: 4000K 50K: 5000K	C75: CRI 75 C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.



LL STREET SMART is an exclusive LED street luminaire designed for high energy efficient public and general urban lighting. LL STREET SMART luminaire can be equipped with electronic modules and controlled and supervised from central control unit.

Electronic modules for LL STREET SMART

Additional modules are suitable supplement of luminaires LL STREET SMART. Their use extends luminaire lifespan in range of 10 % - 30 % and increases functionality of lighting system. Dimmed units with programmed mode ensure even higher energy-save.

LL RIS CLO

- additional electronic module which ensures constant light flux during the whole lifespan of luminaire and 10 % extra energy saving.

LL RIS DLO

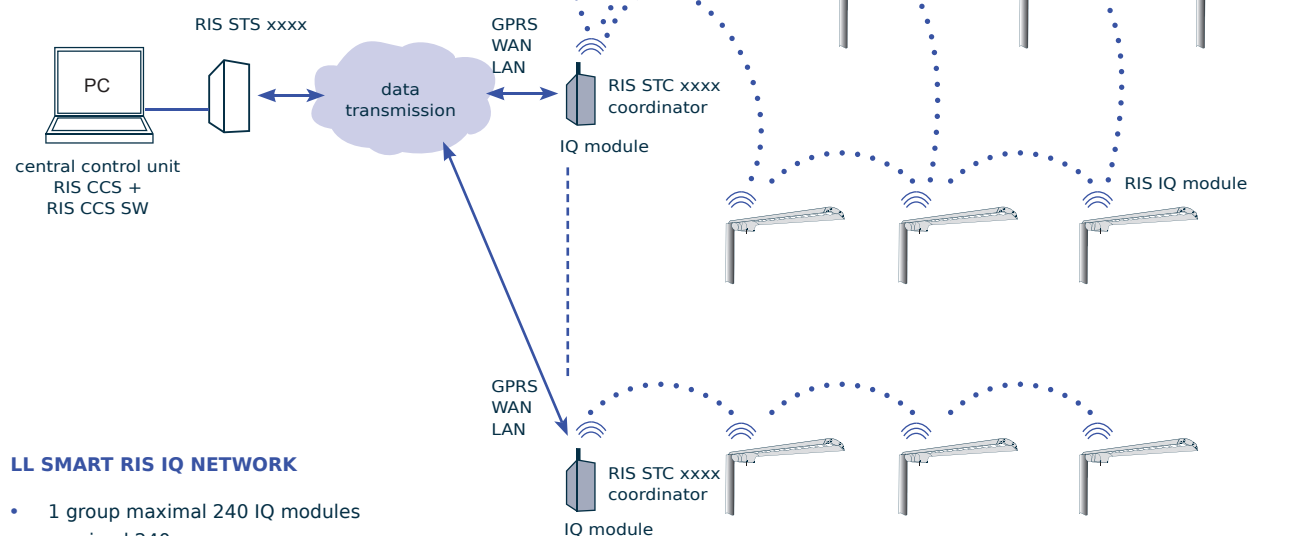
- additional electronic module with pre-programmed regime of dimming which ensures dynamic change of light output over one night in depending on the season. This module increases energy save of LED luminaires more than 25 % than standard LL STREET RIS version.

LL RIS CLO/DLO

- additional electronic module which is combination of CLO and DLO provides constant light flux during the whole luminaire lifespan and simultaneously has programmed regime of dimming during the night. Additional 25 % - 35 % energy savings.

LL SMART RIS IQ

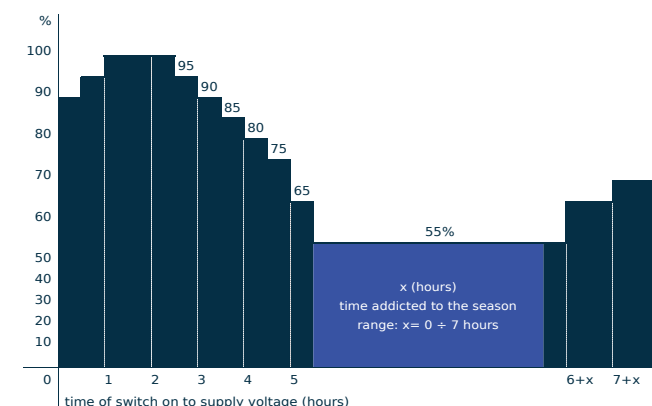
- electronic module for wireless control with luminaires diagnostic. The central control unit based on the wirelessly received parameters (dimming, temperature and real power consumption) can calculate immediate power consumption, regulate the luminaires and evaluate the operation of the system. Additional 25 % - 35 % energy savings under programming of system.



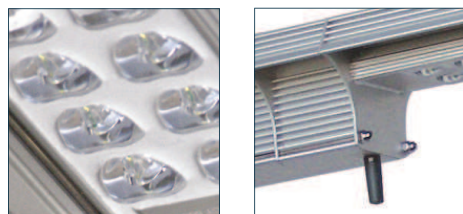
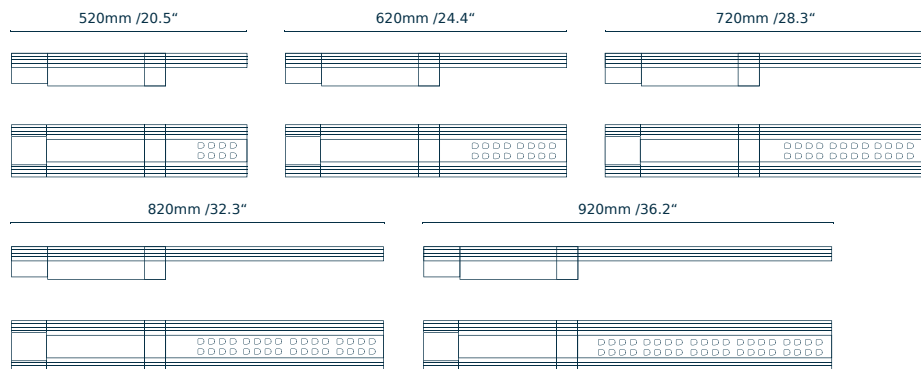
LL SMART RIS IQ NETWORK

- 1 group maximal 240 IQ modules
- maximal 240 groups

LL STREE RIS DLO - dimming during the night



Dimensions



Technical specification

- Ambient temp. (T_a): -30°C (-22°F) < T_a < +40°C (104°F)
- Body: IK10
- Cooling: conventional

LL	STREET	RIS52		NA	O67	08	25W	AT	40K	C75	
		RI	S52								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	STREET	RI: cold start 40A/230VAC AC90-305V; 47-63Hz; Class II RF IQ control; cold start 70A/230VAC	S: side pole entry Ø 60mm (2,36“)	52: 520mm 62: 620mm 72: 720mm 82: 820mm 92: 920mm	NA: natural anodized aluminium Optional: BL: black anodized aluminium	O67: Outdoor IP67	08: 8x LED 16: 16x LED 24: 24x LED 32: 32x LED 40: 40x LED	25W 40W 60W 80W 100W	AT: 52°x129°	30K: 3000K 40K: 4000K 50K: 5000K	C75: CRI 75 C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.

Basic models

Class II	Lifespan (hours)		Weight (kg)
	L70	Ta 25° Ta 15°	
LL STREET RIS52-NA-O67-08-25W-AT-40K-C75	100 000	150 000	5,00
LL STREET RIS62-NA-O67-16-40W-AT-40K-C75	100 000	150 000	5,50
LL STREET RIS72-NA-O67-24-60W-AT-40K-C75	100 000	150 000	6,00
LL STREET RIS82-NA-O67-32-80W-AT-40K-C75	100 000	150 000	6,40
LL STREET RIS92-NA-O67-40-100W-AT-40K-C75	100 000	150 000	6,60

Accessories

- LL STREET ADAPTER TOP 060 0° (Optional 5°, 10°, 15°)
- LL STREET ADAPTER 76/60mm (Optional 50/60mm)

Electronic modules

LL RIS CLO	- electronic module for constant light output
LL RIS DLO	- electronic module for dynamic light output
LL RIS CLO/DLO	- electronic module for constant light output with dynamic light output
LL SMART RIS IQ	- electronic module for wirelessly dimming 0-100% with diagnostic
LL SMART IQ CCS	- central control station hardware
LL SMART IQ SW*	- central control unit software
LL SMART IQ STC	- setup modul for IQ - coordinator max. 240 IQ modules
LL SMART IQ STS	- setup modul for IQ - supervisor max. 240 STC

* more variants available

Applications

- major roads and streets
- city centers, public areas, pedestrian zones, residential areas
- industry areas



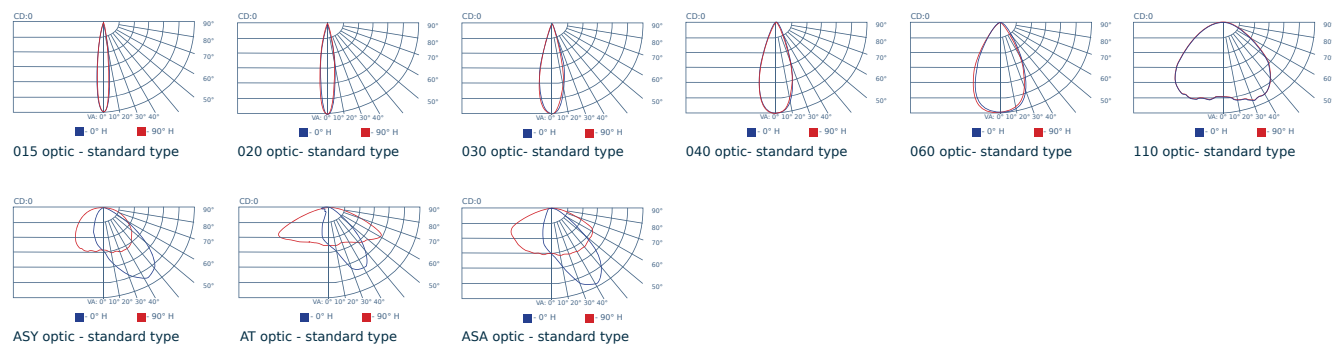
LL SPORT is a sophisticated highpower LED luminaire especially designed for large arena lighting.

The luminaire is supplied complete with driver and adjustable bracket for surface mounting.

The DMX luminaires are configured by two ways: DIP switch the indoor IP 20 version or by external UPLOADER the outdoor IP65 version.



Photometry

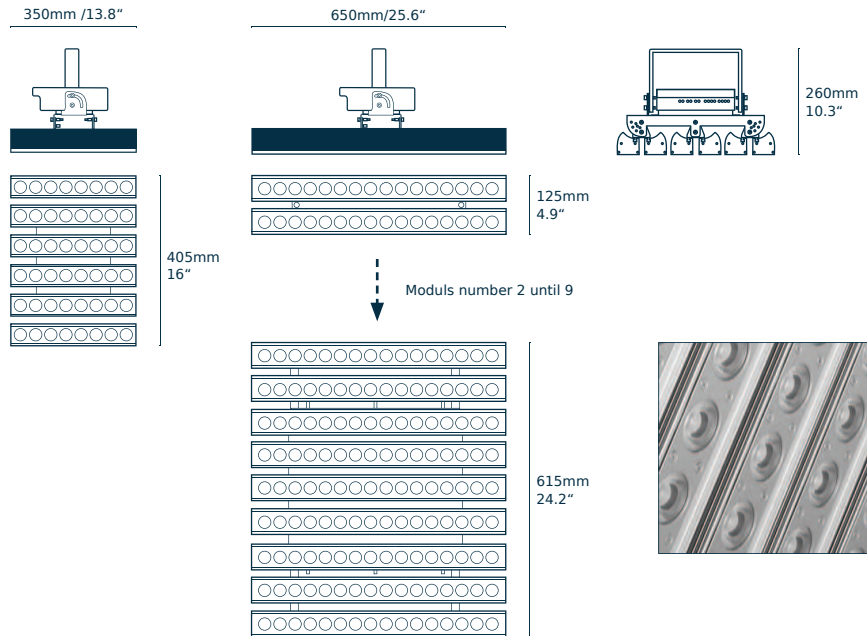


Applications

- multifunctional sports halls
- sport arenas
- outdoor sport arenas, stadiums
- swimming pools
- tennis courts, squash courts



Dimensions



Technical specification

- Ambient temp. (Ta): Indoor: max. +40°C (104°F) optional +50°C; Outdoor: -30°C (-22°F) ~ +40°C (104°F) optional +50°C (122°F)
- Cooling: conventional

Basic models*

	Lifespan (hours) L70		Weight (kg)
	Ta 25°	Ta 15°	
LL SPORT M265-NA-I20-32-100W-030-56K-C75	75 000	100 000	2,70
LL SPORT M365-NA-I20-48-150W-030-56K-C75	75 000	100 000	3,50
LL SPORT M635-NA-I20-48-150W-030-56K-C75	75 000	100 000	4,50
LL SPORT M665-NA-I20-96-300W-030-56K-C75	75 000	100 000	6,00
LL SPORT M965-NA-I20-144-450W-030-56K-C75	75 000	100 000	9,00

Electronic modules ***

LL DIM DMX**	– electronic module for DMX control
LL DIM DALI	– electronic module for DALI control
LL DIM ANA	– electronic module for 0-10V control
LL DIM CLO	– electronic module for constant light output
LL SMART IQ	– electronic module for wireless dimming 0-100%
LL SMART IQ CCS	– central control station hardware
LL SMART IQ 1G SW	– software for 1pc STC with max. 240 IQ modules
LL SMART IQ 2G SW	– software for 2pcs STC with 2 groups with max. 240 IQ modules each
LL SMART IQ E4G SW	– extended SW for 4pcs STC with 4 groups with max. 240 IQ modules each
LL SMART IQ STC	– coordinator for max. 240 IQ modules
LL SMART IQ STS	– supervisor for max. 240 coordinators

* optional versions AC 180-480V or AC 90-305V

** address setup by IP20 with DIP switch, IP65 with UPLOADER, the standard factory setup DMX address 001

*** electronic module increase luminaire power consumption of 5W

LL	SPORT	M260	NA		I20	32	100W	030	56K	C75	
		M	260								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	SPORT	M: AC90-264V, 47-63Hz; DC127-370V; setup time 1200ms, cold start 70A/230VAC Optional: Z*: AC 180-480V* C*: AC 90-305V*	1: Modul number 2x modul 3x modul 6x modul 9x modul	35: Lenght 350mm 650mm 650mm 350/650mm 650mm	NA: natural anodized aluminium	I20: Indoor IP20 O65: Outdoor IP65	32: 32x LED 48: 48x LED 96: 96x LED 144: 144x LED	108W 162W 330W 480W	015: 13° 020: 18° 030: 30° 040: 38° 060: 58° 110: 110° EL: 12°x46° ASY: 58°x94° ASA: 60°x122° AT: 52°x129°	45K: 4500K 56K: 5600K	C75: CRI 75 C80: CRI 80 option for 4500K

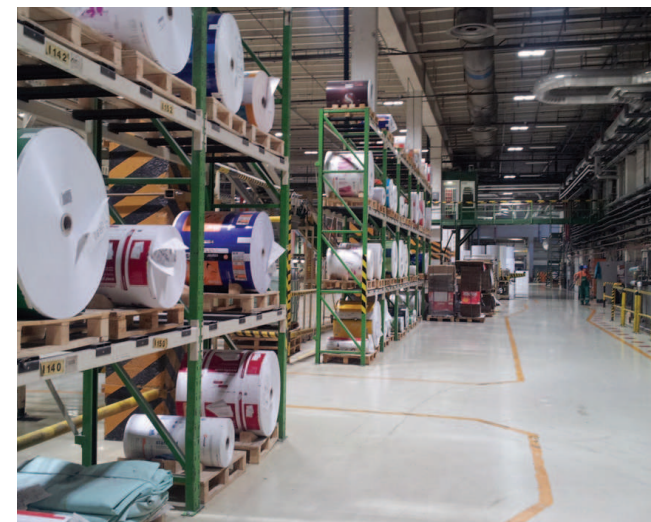
The combinations are limited. Correctness of the specification must be approved by the supplier.



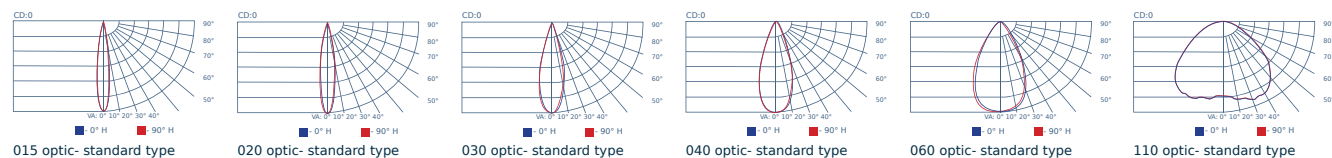
LL HIGH BAY is a sophisticated highpower LED luminaire dedicated for large area lighting. It's a modular concept and the basic version can be extended with SMART electronic modules.

The luminaire is supplied complete with driver and bracket for surface mounting.

The DMX luminaires are configured by two ways: DIP switch the indoor IP 20 version or by external UPLOADER the outdoor IP65 version.



Photometry

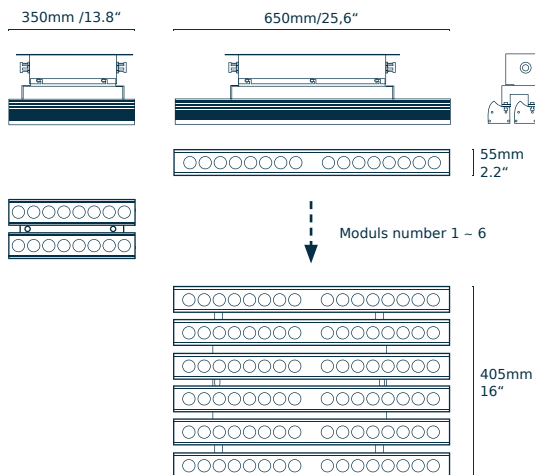


Applications

- industry halls, warehouses
- commercial and public halls
- shopping centers
- bus stations, railway stations and airport halls



Dimensions



Technical specification

- Ambient temp. (Ta): Indoor: max. +40°C (104°F) optional +50°C;
Outdoor: -30°C (-22°F) ~ +40°C (104°F) optional +50°C (122°F)
- Cooling: conventional

Basic models

	Lifespan (hours) L70		Weight (kg)
	Ta 25°	Ta 15°	
LL HB M165-NA-I20-16-50W-060-45K-C80	75 000	100 000	2,80
LL HB M235-NA-I20-16-50W-060-45K-C80	75 000	100 000	2,50
LL HB M265-NA-I20-32-100W-060-45K-C80	75 000	100 000	4,90
LL HB M365-NA-I20-48-150W-060-45K-C80	75 000	100 000	6,90
LL HB M465-NA-I20-64-200W-060-45K-C80	75 000	100 000	8,90
LL HB M565-NA-I20-80-250W-060-45K-C80	75 000	100 000	9,90
LL HB M665-NA-I20-96-300W-060-45K-C80	75 000	100 000	11,90

Electronic modules ***

LL DIM DMX**	– electronic module for DMX control
LL DIM DALI	– electronic module for DALI control
LL DIM ANA	– electronic module for 0-10V control
LL DIM CLO	– electronic module for constant light output
LL SMART IQ	– electronic module for wireless dimming 0-100%
LL SMART IQ CCS	– central control station hardware
LL SMART IQ 1G SW	– software for 1pc STC with max. 240 IQ modules
LL SMART IQ 2G SW	– software for 2pcs STC with 2 groups with max. 240 IQ modules each
LL SMART IQ E4G SW	– extended SW for 4pcs STC with 4 groups with max. 240 IQ modules each
LL SMART IQ STC	– coordinator for max. 240 IQ modules
LL SMART IQ STS	– supervisor for max. 240 coordinators

* optional versions AC 180-480V or AC 90-305V

** address setup by IP20 with DIP switch, IP65 with UPLOADER, the standard factory setup DMX address 001

*** electronic module increase luminaire power consumption of 5W

LL	HB	M165	NA		I20	16	50W	060	45K	C80	
		P	165								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	HIGH BAY	M: AC90-264V, 47-63Hz; DC127-370V; setup time 1200ms, cold start 70A/230VAC Optional: Z*: AC 180-480V* C*: AC 90-305V*	1: Modul number 1x modul 2x modul 3x modul 4x modul 5x modul 6x modul	35: Lenght 650mm 350/650mm 650mm 650mm 650mm 650mm	NA: natural anodized aluminium	I20: Indoor IP20 O65: Outdoor IP65	16: 16x LED 32: 32x LED 48: 48x LED 64: 64x LED 80: 80x LED 96: 96x LED	55W 105W 160W 210W 260W 310W	015: 13° 020: 18° 030: 30° 040: 38° 060: 58° 110: 110° EL1445: 12°x46°	30K: 3000K 35K: 3500K 40K: 4000K 45K: 4500K 56K: 5600K	C75: CRI 75 C80: CRI 80 C90: CRI 90 option for 3000K

The combinations are limited. Correctness of the specification must be approved by the supplier.



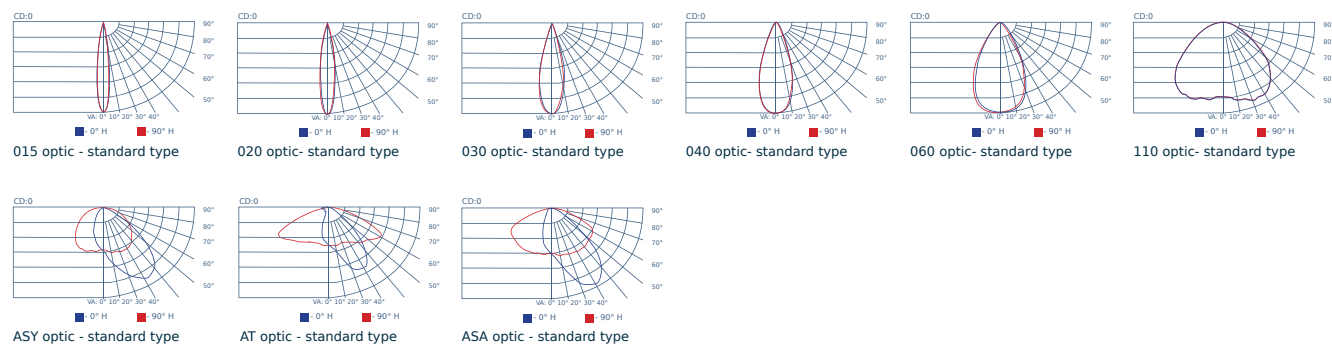
LL FLOOD is a sophisticated highpower LED luminaire special designed for wallwashing and floodlighting. The basic version can be extended with SMART electronic modules.

The luminaire is supplied complete with driver and adjustable bracket for surface mounting.

The DMX luminaires are configured by two ways: DIP switch the indoor IP 20 version or by external UPLOADER the outdoor IP65 version.



Photometry

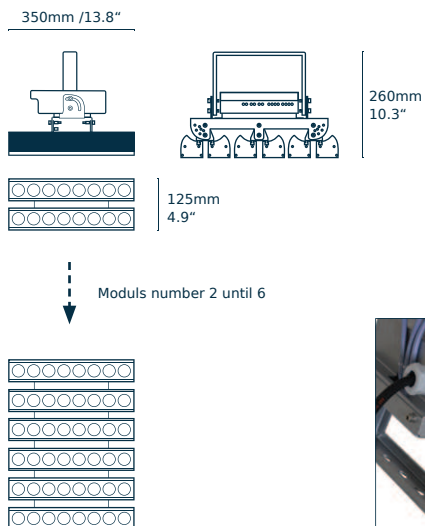


Applications

- floodlighting and wallwashing



Dimensions



Technical specification

- Ambient temp. (Ta): Indoor: max. +40°C (104°F) optional +50°C; Outdoor: -30°C (-22°F) ~ +40°C (104°F) optional +50°C (122°F)
- Cooling: conventional



Basic models

	Lifespan (hours)		Weight (kg)
	L70		
	Ta 25°	Ta 15°	
LL FLOOD M235-NA-I20-16-40W-030-56K-C75	75 000	100 000	2,70
LL FLOOD M335-NA-I20-24-60W-030-56K-C75	75 000	100 000	3,50
LL FLOOD M435-NA-I20-32-80W-030-56K-C75	75 000	100 000	4,50
LL FLOOD M535-NA-I20-40-100W-030-56K-C75	75 000	100 000	6,00
LL FLOOD M635-NA-I20-48-120W-030-56K-C75	75 000	100 000	9,00

Electronic modules

LL DIM DMX**	– electronic module for DMX control
LL DIM DALI	– electronic module for DALI control
LL DIM ANA	– electronic module for 0-10V control
LL DIM CLO	– electronic module for constant light output
LL SMART IQ	– electronic module for wireless dimming 0-100%
LL SMART IQ CCS	– central control station hardware
LL SMART IQ 1G SW	– software for 1pc STC with max. 240 IQ modules
LL SMART IQ 2G SW	– software for 2pcs STC with 2 groups with max. 240 IQ modules each
LL SMART IQ E4G SW	– extended SW for 4pcs STC with 4 groups with max. 240 IQ modules each
LL SMART IQ STC	– coordinator for max. 240 IQ modules
LL SMART IQ STS	– supervisor for max. 240 coordinators

* optional versions AC 180-480V or AC 90-305V

** address setup by IP20 with DIP switch, IP65 with UPLOADER, the standard factory setup DMX address 001

*** electronic module increase luminaire power consumption of 5W

LL	FLOOD	M235	M	260	NA	I20	16	40W	030	56K	C75
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	FLOOD	M: AC90-264V, 47-63Hz; DC127-370V; setup time 1200ms, cold start 70A/230VAC Optional: Z*: AC 180-480V* C*: AC 90-305V*	2: Modul number 2x modul 3x modul 4x modul 5x modul 6x modul	35: Lenght 350mm 350mm 350mm 350mm 350mm 350mm	NA: natural anodized aluminium	I20: Indoor IP20 O65: Outdoor IP65	16: 16x LED 24: 24x LED 32: 32x LED 40: 40x LED 48: 48x LED	40W 60W 80W 100W 120W	015: 13° 020: 18° 030: 30° 040: 38° 060: 58° 110: 110° EL: 12°x46° ASY: 58°x94° ASA: 60°x122° AT: 52°x129°	45K: 4500K 56K: 5600K	C75: CRI 75 C80: CRI 80 option for 4500K

The combinations are limited. Correctness of the specification must be approved by the supplier.



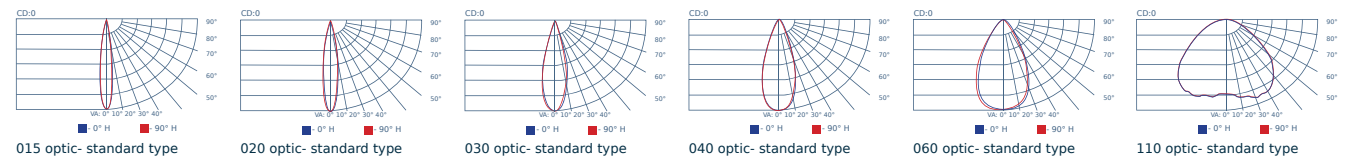
LL HIGH BAY DOWNLIGHT is a compact luminaire with efficient LED technology, enabling significant energy savings without compromising on quality of light. It's ideal tool for public lighting, auditoriums, shopping malls and lobby.

The most characteristic features are low power consumption, high total efficacy and long lifespan. Optional LED dimming allows further energy saving.

The DIM version is compatible with DMX512.



Photometry

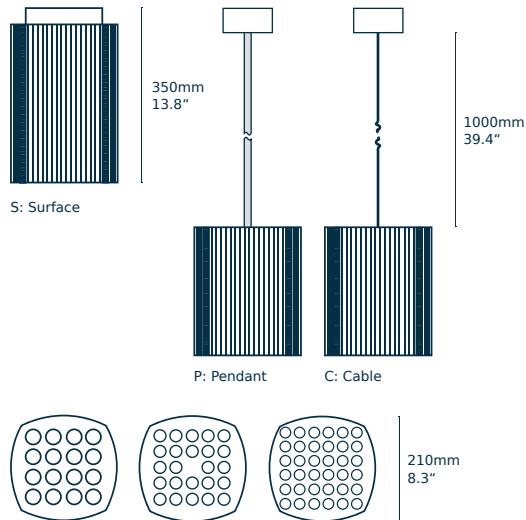


Applications

- commercial and public halls
- churches, temples, cathedrals
- shopping centers, lobby
- bus stations, railway stations and airport halls



Dimensions



Technical specification

- Ambient temp. (Ta): Indoor: max. +40°C (104°F)
- Cooling: conventional



Basic models

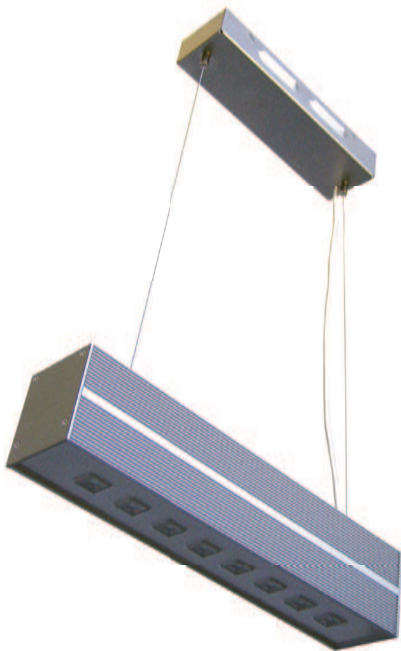
Switching driver On/Off	Lifespan (hours)		Weight (kg)
	Ta 25°	Ta 15°	
LL HBDW PS21-NA-I20-16-50W-060-45K-C80	75 000	100 000	4,10
LL HBDW PS21-NA-I20-16-80W-040-RGBW30K-C80			4,10
LL HBDW PS21-NA-I20-24-75W-060-45K-C80	50 000	75 000	4,10
LL HBDW PS21-NA-I20-36-100W-060-45K-C80	50 000	75 000	4,40
Dimming driver DMX			
LL HBDW DS21-NA-I20-16-50W-060-45K-C80	75 000	100 000	4,10
LL HBDW DS21-NA-I20-24-75W-060-45K-C80	50 000	75 000	4,10
LL HBDW DS21-NA-I20-36-100W-060-45K-C80	50 000	75 000	4,40

Accessories

- LL HBDW BAFFLE
- LL HBDW TOP HAT
- LL HBDW POLE ADAPTER

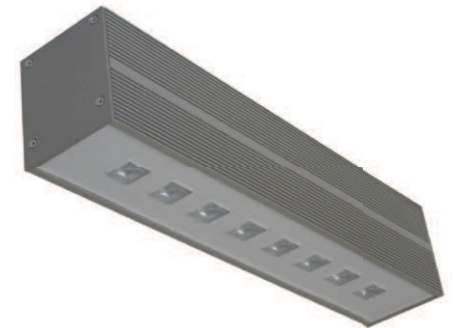
LL	HBDW	PS21		NA		I20	16	50W	060	45K	C80
		P	S 21								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	HIGH BAY DOWNLIGHT	D: AC90-305V, 47-63Hz; DC127-370V; DMX; setup time 1200ms, cold start 70A/230VAC P: AC90-305V, 47-63Hz; DC127-370V; On/Off; setup time 1000ms, cold start 40A/230VAC	S: Mounting S: Surface P: Pendant C: Cable	21: Ø 210mm	NA: natural anodized aluminium	I20: Indoor IP20	16: 16x LED 24: 24x LED 36: 36x LED	50/80W 75W 100W	015: 13° 020: 18° 030: 30° 040: 38° 060: 58° 110: 110° 130: 130° EL1445: 12°x46°	30K: 3000K 45K: 4500K RGBW 30K RGBW 45K	C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.

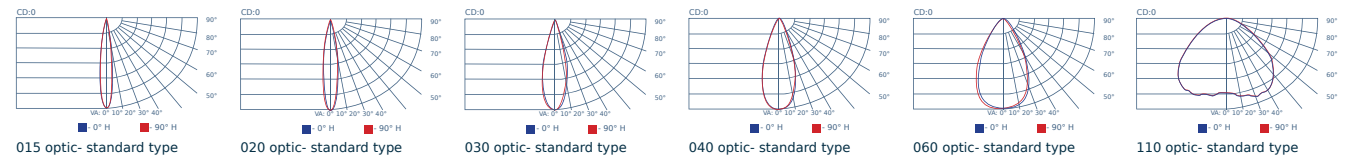


LL LOW BAY is an ideal LED luminaire for general lighting with broad applicability. It's an ideal alternative to conventional fluorescent installation with wide flexibility in light distribution.

It's characterised by high energy savings and extreme long lifespan. The basic version can be extended with SMART electronic modules. The luminaire is supplied in two versions for surface and pendant mounting.



Photometry

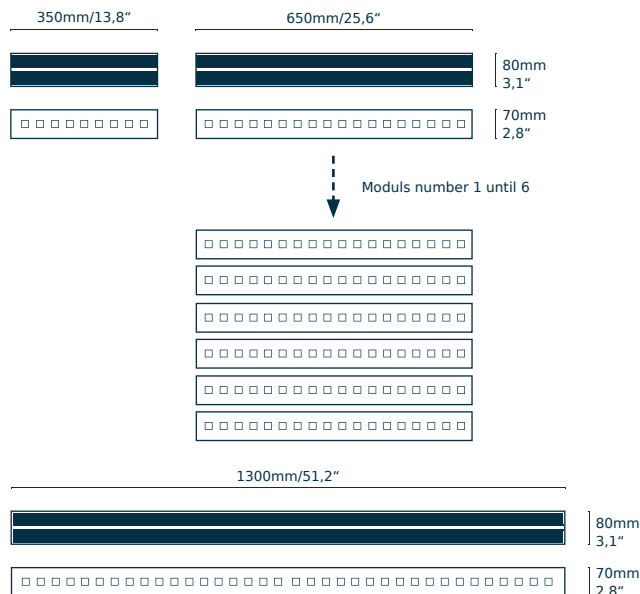


Applications

- office buildings, schools
- supermarkets and shopping centers
- commercial and public halls



Dimensions



Basic models

Switching driver On/Off	Lifespan (hours) L70		Weight (kg)
	Ta 25°	Ta 15°	
LL LB M135-NA-I20-09-16W-060-45K-C80	75 000	100 000	1,40
LL LB M135-NA-I20-09-25W-060-45K-C80	75 000	100 000	1,40
LL LB M165-NA-I20-18-25W-060-45K-C80	75 000	100 000	2,80
LL LB M165-NA-I20-18-40W-060-45K-C80	75 000	100 000	2,80
LL LB M1130-NA-I20-36-60W-060-45K-C80	75 000	100 000	5,60
LL LB M265-NA-I20-36-80W-060-45K-C80	75 000	100 000	6,00
LL LB M365-NA-I20-54-120W-060-45K-C80	75 000	100 000	8,90
LL LB M465-NA-I20-72-160W-060-45K-C80	75 000	100 000	11,80
LL LB M565-NA-I20-90-200W-060-45K-C80	75 000	100 000	14,80
LL LB M665-NA-I20-108-240W-060-45K-C80	75 000	100 000	17,80

Accessories

LL LB SUSPENSION 1,5m long adjustable holder (2 pieces)
LL LB CEILING HOLDER and connection box

Electronic modules**

LL DIM DMX	– electronic module for DMX control
LL DIM DALI	– electronic module for DALI control
LL DIM ANA	– electronic module for 0-10V control
LL DIM CLO	– electronic module for constant light output
LL SMART IQ	– electronic module for wireless dimming 0-100%
LL SMART IQ CCS	– central control station hardware
LL SMART IQ 1G SW	– software for 1pc STC with max. 240 IQ modules
LL SMART IQ 2G SW	– software for 2pcs STC with 2 groups with max. 240 IQ modules each
LL SMART IQ E4G SW	– extended SW for 4pcs STC with 4 groups with max. 240 IQ modules each
LL SMART IQ STC	– coordinator for max. 240 IQ modules
LL SMART IQ STS	– supervisor for max. 240 coordinators

* optional versions AC 180-480V or AC 90-305V

** electronic module increase luminaire power consumption of 5W

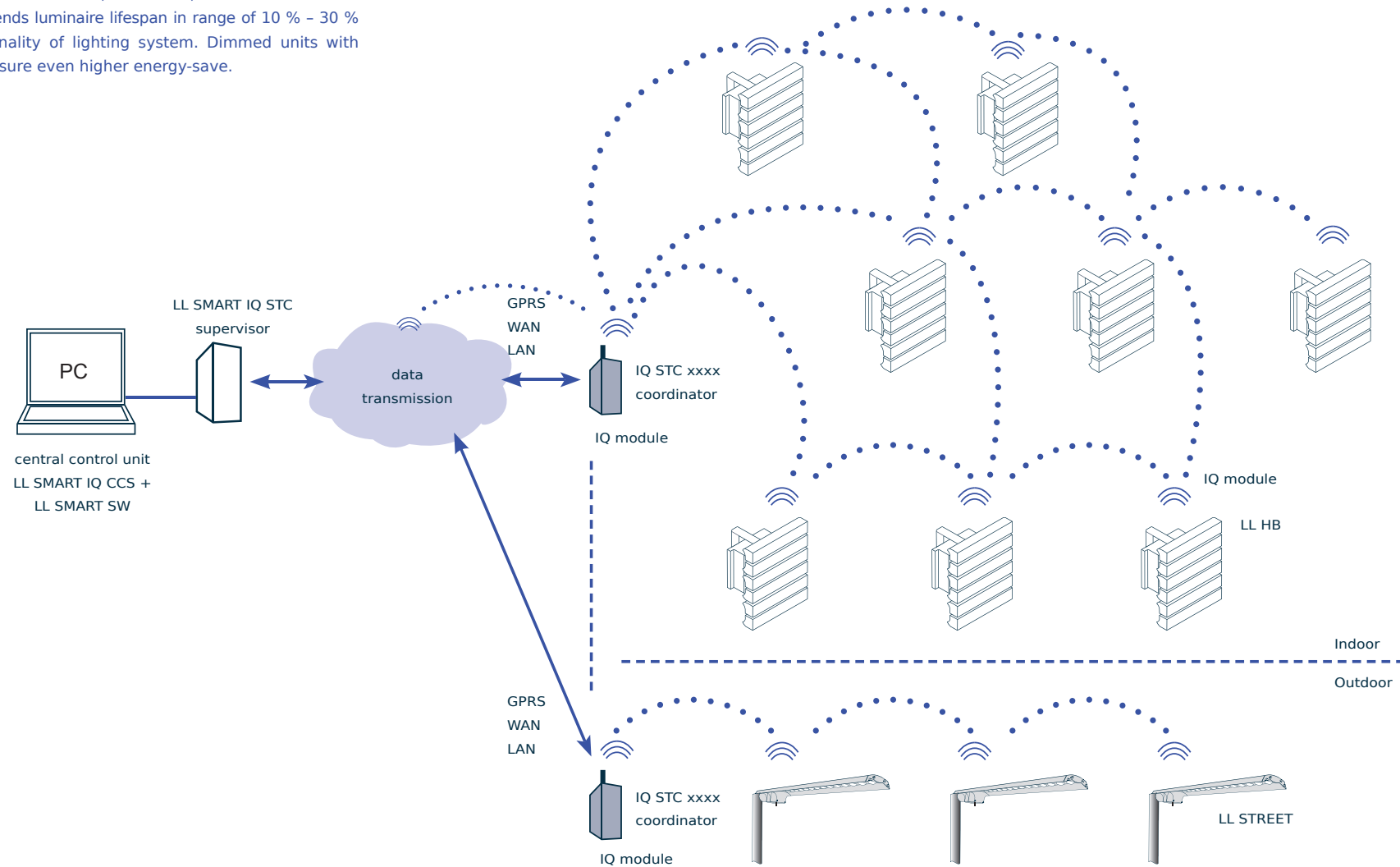
Technical specification

- Ambient temp. (Ta): Indoor: max. +40°C (104°F)
- Cooling: conventional

LL	LB	M135		NA		I20	09	16W	060	45K	C80
		M	135								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	LOW BAY	M: AC90-264V, 47-63Hz; DC127-370V; setup time 1200ms, cold start 70A/230VAC Optional: Z*: AC 180-480V* C*: AC 90-305V*	1: Modul number 1x modul 2x modul 3x modul 4x modul 5x modul 6x modul	35: Lenght 350/650/1300mm 650mm 650mm 650mm 650mm 650mm	NA: natural anodized aluminium	I20: Indoor IP20	09: 9x LED 18: 18x LED 36: 36x LED 54: 54x LED 72: 72x LED 90: 90x LED 108: 108x LED	16/25W 25/40W 60/80W 120W 160W 200W 240W	015: 13° 020: 18° 030: 30° 040: 38° 060: 58° 110: 110° EL1445: 12°x46°	30K: 3000K 35K: 3500K 40K: 4000K 45K: 4500K 56K: 5600K	C75: CRI 75 C80: CRI 80 C90: CRI 90 option for 3000K

The combinations are limited. Correctness of the specification must be approved by the supplier.

LL SMART electronic modules are all-purpose supplement of luminaires LL SPORT, LL HIGH BAY, LL FLOOD, LL LOW BAY and LL STREET. Their use extends luminaire lifespan in range of 10 % - 30 % and increases functionality of lighting system. Dimmed units with programmed mode ensure even higher energy-save.



LL SMART IQ NETWORK

- 1 group maximal 240 IQ modules / luminaires
- maximal 240 groups / coordinators

LL DIM DMX

- additional electronic module which ensures DMX control of the system.

LL DIM DALI

- additional electronic module which ensures DALI control of the system.

LL DIM ANA

- additional electronic module which ensures 0-10V control of the system.

LL DIM CLO

- additional electronic module which ensures constant light flux during the whole lifespan of luminaire and 10 % extra energy saving.

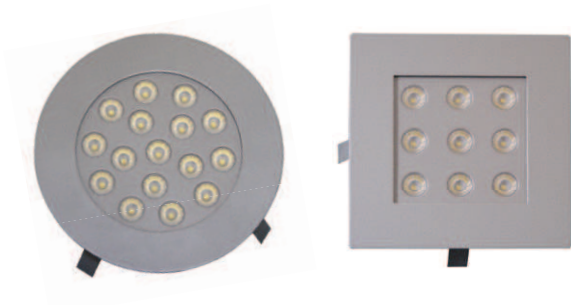
LL SMART IQ

- electronic module for wireless control with luminaires diagnostic. The central control unit based on the wirelessly received parameters (dimming, temperature and real power consumption) can calculate immediate power consumption, regulate the luminaires and evaluate the operation of the system. Additional 25 % - 35 % energy savings under programming of system.

Electronic modules**

LL DIM DMX	- electronic module for DMX control
LL DIM DALI	- electronic module for DALI control
LL DIM ANA	- electronic module for 0-10V control
LL DIM CLO	- electronic module for constant light output
LL SMART IQ	- electronic module for wireless dimming 0-100%
LL SMART IQ CCS	- central control station hardware
LL SMART IQ 1G SW	- software for 1pc STC with max. 240 IQ modules
LL SMART IQ 2G SW	- software for 2pcs STC with 2 groups with max. 240 IQ modules each
LL SMART IQ E4G SW	- extended SW for 4pcs STC with 4 groups with max. 240 IQ modules each
LL SMART IQ STC	- coordinator for max. 240 IQ modules
LL SMART IQ STS	- supervisor for max. 240 coordinators

* electronic module increase luminaire power consumption of 5W

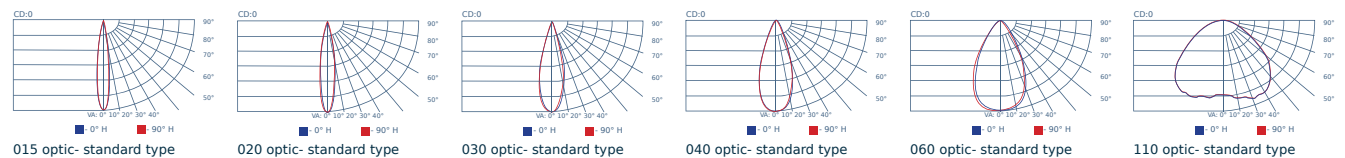


LL RECESSED DOWNLIGHT is the family of high-power downlights with efficient LED technology in three modifications: square, round and rectangular. The recessed downlights are used in commercial lighting for general illumination and accent lighting. It's an ideal alternative to conventional fluorescent installation with wide flexibility in light distribution.

It's characterised by high energy savings and extreme long lifespan. The basic version can be extended with LL DIM DW electronic module for 0 % - 100 % dimming function with DMX or DALI signal.

Each LL DIM DW module has movement sensor input for automatic occupancy functions.

Photometry

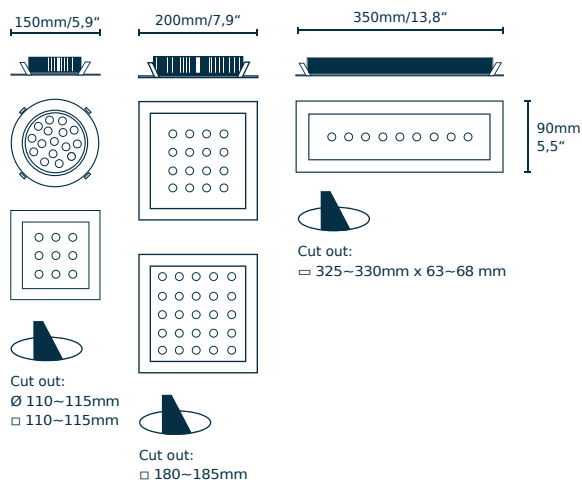


Applications

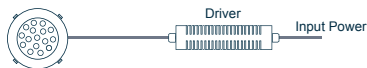
- shopping malls
- public areas
- schools
- museums, galleries
- office, lobby



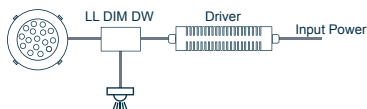
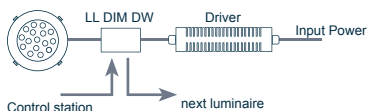
Dimensions



Standard configuration



Configuration with LL DIM DW module



Basic models

	Lifespan (hours)		Weight (kg)
	Ta 25°	Ta 15°	
LL RDW MR15-SI-I20-16-16W-060-40K-C80			0,50
LL RDW MR15-SI-I20-16-25W-060-40K-C80			0,50
LL RDW MS15-SI-I20-09-16W-060-40K-C80			0,50
LL RDW MS20-SI-I20-16-25W-060-40K-C80			0,80
LL RDW MS20-SI-I20-25-40W-060-40K-C80			0,80
LL RDW ML35-SI-I20-09-16W-060-40K-C80			0,80
LL RDW ML35-SI-I20-09-25W-060-40K-C80			0,80

Electronic modules

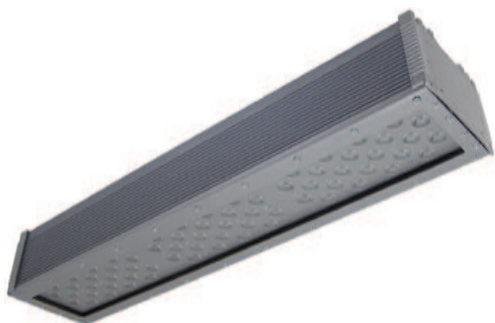
LL DIM DW DMX	– electronic module for DMX control
LL DIM DW DALI	– electronic module for DALI control

Technical specification

- Ambient temp. (Ta): Indoor: max. +40°C (104°F)
- Cooling: conventional

LL	RDW	LR15		SI	I20	16	16W	060	40K	C80	
		P	R15								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color temperature	CRI
	RECESSED DOWNLIGHT	M: AC90-264V, 47-63Hz; DC127-370V; setup time 1200ms, cold start 70A/230VAC	R: Round	15: Ø 150mm	SI: RAL9006 BL: RAL9005 W: RAL9010 GR: RAL7035	I20: Indoor IP20	09: 9x LED 16: 16x LED 25: 25x LED	16/25W 16/25W 40W	015: 13° 020: 18° 030: 30° 040: 38° 060: 58° 110: 110°	40K: 4000K	C80: CRI 80
			S: Square	15: 150x150mm 20: 200x200mm							
			L: Rectangle	35: 350x90mm							

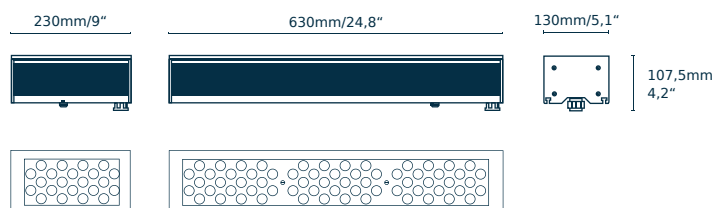
The combinations are limited. Correctness of the specification must be approved by the supplier.



LL WASH DMX is an extra powerful LED luminaire ideal for color changing washing large areas. Switching and dimming in range of 0 % - 100 % of the emitted light is very smooth. The luminaire is characterized by accurate and uniform light distribution. The rare optic generates perfect shaped light ideal for obscure area floodlighting and wall washing.

This range is compatible with DMX512. It simplifies installations by discovering and addressing lights in a network.

Dimensions



Technical specification

- Ambient temp. (Ta): -30°C (-22°F) ~ +40°C (104°F)
- Cooling: conventional
- Lifespan: 50 000 hours at L70 full power

Applications

- commercial and public halls
- color floodlighting and wall washing
- modern and historical buildings, public areas

Basic models

	Weight (kg)
LL WASH D23-SI-O65-22-34W-015-RGBAW-SC	3,00
LL WASH D63-SI-O65-66-102W-015-RGBAW-SC	5,50

Accessories

LL WASH D23-SI-BRACKET-ADJ
LL WASH D23-SI-BRACKET-FIX
LL WASH D63-SI-BRACKET-ADJ
LL WASH D63-SI-BRACKET-FIX



LL	WASH	D23	SI	O65	22	34W	015	RGBAW	SC	
		D	23							
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED	LED
	WASH	D: AC90-264V, 47-63Hz; DC127-370V; DMX; setup time 1200ms, cold start 70A/230VAC	23: Lenght 230mm 63: Lenght 630mm	SI: RAL9006	O65: Outdoor IP 65	22: 22x LED 66: 66x LED	34W 102W	015: 13° 030: 30° 040: 38° 060: 58° EL2040: 20°x40°	RGBAW: R - Red G - Green B - Blue A - Amber W - White	SC: Single chip

The combinations are limited. Correctness of the specification must be approved by the supplier.

Basic models

	Weight (kg)
LL SPOT D125-SI-I20-16-80W-015-RGBW-OC	3,00
LL SPOT D125-SI-O65-16-80W-015-RGBW-OC	3,00

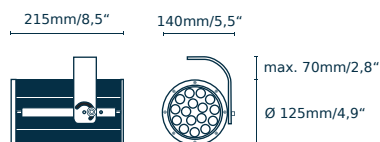
Accessories

LL SPOT D125-SI-FLOOR-STAND

LL SPOT DMX is a powerful LED spotlight. The highly efficient LED technology and the RGBW dynamic color mixing with continuously variable intensity are ideal for architectural accent lighting. The rare optic generates perfect shaped light. The spotlight is compatible with DMX512 for any lighting and graphic effects. It simplifies installations by discovering and addressing lights in a network.



Dimensions



Technical specification

- Ambient temp. (Ta): -30°C (-22°F) ~ +40°C (104°F)
- Cooling: conventional
- Lifespan: 50 000 hours at L70 full power

Applications

- color accent lighting for museums, art galleries, clubs, hotels
- modern and historical buildings, public areas
- sculptures and plastic arts



LL	SPOT	D125	SI	I20	16	80W	015	RGBW	OC	
	Type	D	125	Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	SPOT	D: AC90-264V, 47-63Hz; DC127-370V; DMX; setup time 1200ms, cold start 70A/230VAC Optional: AC 305V	125: Ø 125mm	SI: RAL9006	I20 Indoor IP 20 O65: Outdoor IP 65	16: 16x LED	max. 100W	015: 13° 030: 30° 040: 38° 060: 58° EL2040: 20°x40°	RGBW: R - Red G - Green B - Blue W - White	OC: OneChip

The combinations are limited. Correctness of the specification must be approved by the supplier.



Operate with DRIVER:



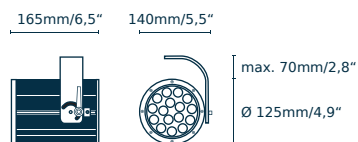
LL SPOT offers all benefits of modern LED technology and is ideal for architectural and commercial applications. The range is characterized by high optical performance, uniform light distribution with continuously variable intensity. It's available in several light variants.

For intensity and color control is necessary connection with LL DRIVER.

LL SPOT monochrome – suitable for single color accent lighting. Wide choice of light colors.

LL SPOT color – ideal for color changing accent lighting. Available in three variants RGB, AWB or AWN.

Dimensions



Technical specification

- Ambient temp. (T_a): max. +40°C (104°F)
- Cooling: conventional
- Control data input: monochrome: 1 channel 24V dimming, color: 3 channels 24V dimming

Applications

- color accent lighting
- modern and historical buildings, public areas
- sculptures and plastic arts

Basic models - monochrome

	I _c (A)	Weight (kg)
LL SPOT L125-SI-I43-18-25W-015-R-SC	1x1,05A	3,00
LL SPOT L125-SI-I43-18-25W-015-G-SC	1x1,05A	3,00
LL SPOT L125-SI-I43-18-25W-015-B-SC	1x1,05A	3,00
LL SPOT L125-SI-I43-18-25W-015-A-SC	1x1,05A	3,00
LL SPOT L125-SI-I43-18-25W-015-30K-C80	1x1,05A	3,00
LL SPOT L125-SI-I43-18-25W-015-40K-C80	1x1,05A	3,00
LL SPOT L125-SI-I43-18-25W-015-50K-C80	1x1,05A	3,00

Basic models - color

LL SPOT L125-SI-I43-19-25W-015-RGB-SC	3x0,35A	3,00
LL SPOT L125-SI-I43-19-25W-015-AWB-SC	3x0,35A	3,00
LL SPOT L125-SI-I43-19-25W-015-AWN-SC	3x0,35A	3,00

Accessories

LL SPOT L125-SI-FLOOR-STAND

LL	SPOT	L125	SI	I43	18	25W	015	R	SC	
		L	125							
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	SPOT	L: PWM 24V or DC 24V	125: Ø 125mm	SI: RAL9006	I43 Indoor IP 43 Optional: O65: Outdoor IP 65	18: 18x LED 19: 19x LED	25W	015: 13° 030: 30° 040: 38° 060: 58° EL2040: 20°x40°	R - Red G - Green B - Blue A - Amber RGB AWB AWN 30K - 3000K 40K - 4000K 50K - 5000K	SC: Single chip C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.



LL LINE is a surface mounted linear LED luminaire designed for architectural illumination. It's available in three basic versions:

LL LINE - color OneChip with OneChip RGBW LED technology.

LL LINE - color Single Chip with RGB/ AWB/ AWN technology for high intensity color lighting.

LL LINE - monochrome with monochrome LED technology.

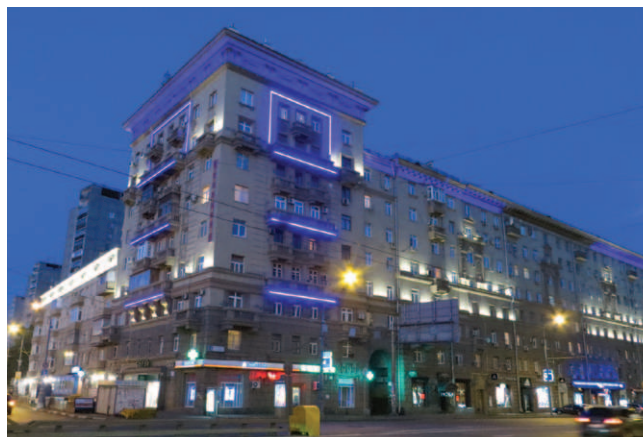
LL LINE family is ideal for floodlighting, wallwashing or to create decorative light lines. For intensity and color control is necessary connection with LL DRIVER.

Operate with DRIVER:



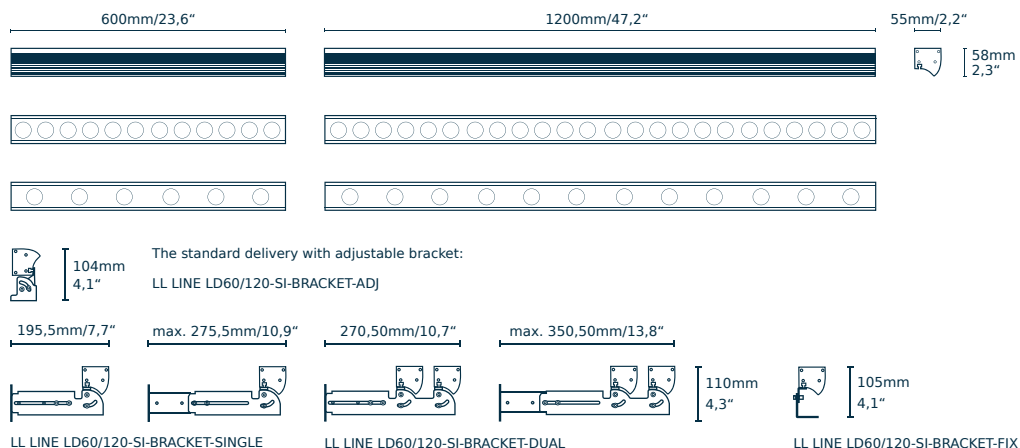
Applications

- color lighting
- historical and modern buildings
- public areas
- shopping centers
- museums, art galleries



LL LINE - color OneChip DC 24V

Dimensions



Technical specification

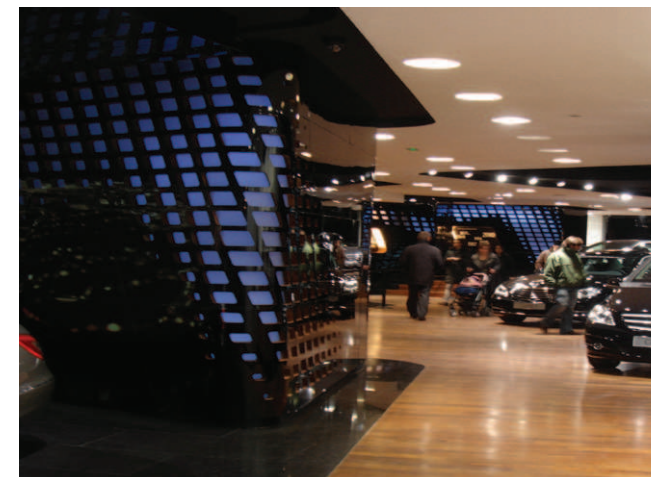
- Ambient temp. (Ta): -30°C (-22°F) < Ta < +40°C (104°F)
- Control data input: 4 channels 24V dimming
- Cooling: conventional

Basic models

	I _c (A)	Weight (kg)
LL LINE L60-SI-I43-06-25W-030-RGBW-OC	4x0,35A	1,50
LL LINE L60-SI-I43-12-63W-030-RGBW-OC	4x0,70A	1,50
LL LINE L120-SI-I43-12-63W-030-RGBW-OC	4x0,70A	2,00
LL LINE L120-SI-I43-24-125W-030-RGBW-OC	4x1,40A	2,00
LL LINE L60-SI-O65-06-25W-030-RGBW-OC	4x0,35A	1,50
LL LINE L60-SI-O65-12-63W-030-RGBW-OC	4x0,70A	1,50

Accessories

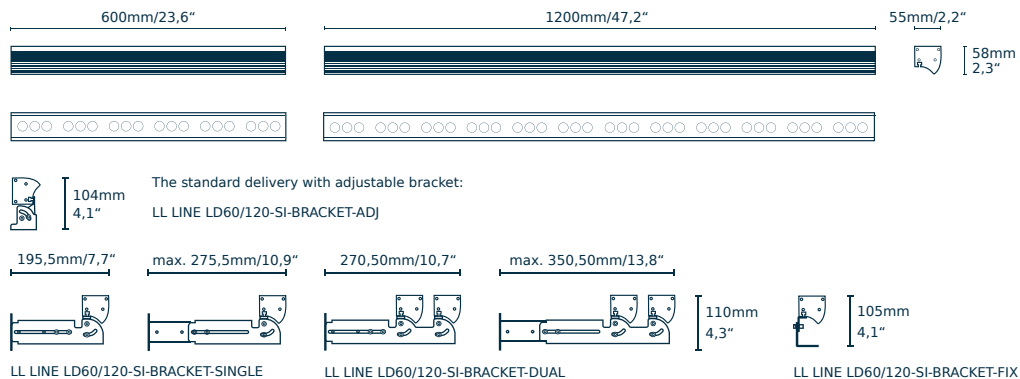
LL LINE L60/120-SI-BRACKET-SINGLE
LL LINE L60/120-SI-BRACKET-DUAL
LL LINE L60/120-SI-BRACKET-FIX



LL	LINE	L60	SI	I43	O6	25W	030	RRBW	OC	
		L	60							
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	LINE	L: PWM 24V or DC 24V	60: lenght 600mm 120: lenght 1200mm 60: lenght 600mm	SI: RAL9006	I43 Indoor IP 43 O65: Outdoor IP 65	06: 6x LED 12: 12x LED 24: 24x LED	25W 63W 125W	015: 13° 030: 30° 040: 38° 060: 58° EL2040: 20°x40°	RGBW R - Red G - Green B - Blue A - Amber W - White	OC: OneChip

The combinations are limited. Correctness of the specification must be approved by the supplier.

Dimensions



Basic models

	I _c (A)	Weight (kg)
LL LINE L60-SI-I43-18-25W-015-RGB-SC	3x0,35A	1,50
LL LINE L60-SI-I43-18-25W-015-AWB-SC	3x0,35A	1,50
LL LINE L60-SI-I43-18-25W-015-AWN-SC	3x0,35A	1,50
LL LINE L120-SI-I43-36-50W-015-RGB-SC	3x0,70A	2,00
LL LINE L120-SI-I43-36-50W-015-AWB-SC	3x0,70A	2,00
LL LINE L120-SI-I43-36-50W-015-AWN-SC	3x0,70A	2,00
LL LINE L60-SI-O65-18-25W-015-RGB-SC	3x0,35A	1,50
LL LINE L60-SI-O65-18-25W-015-AWB-SC	3x0,35A	1,50
LL LINE L60-SI-O65-18-25W-015-AWN-SC	3x0,35A	1,50

Accessories

LL LINE L60/120-SI-BRACKET-SINGLE
LL LINE L60/120-SI-BRACKET-DUAL
LL LINE L60/120-SI-BRACKET-FIX

Technical specification

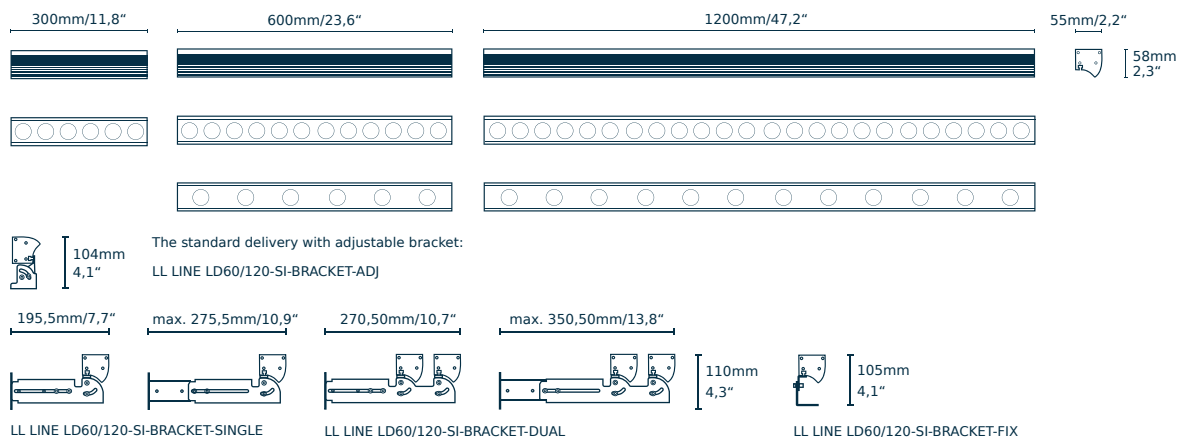
- Ambient temp. (T_a): -30°C (-22°F) < T_a < +40°C (104°F)
- Control data input: 3 channels 24V dimming
- Cooling: conventional

LL	LINE	L60	SI	I43	18	25W	015	RGB	SC	
		L	60							
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	LINE	L: PWM 24V or DC 24V	60: lenght 600mm 120: lenght 1200mm 60: lenght 600mm	SI: RAL9006	I43 Indoor IP 43 O65: Outdoor IP 65	18: 18x LED 36: 36x LED	25W 50W	015: 13° 030: 30° 040: 38° 060: 58° EL2040: 20°x40° ASY: 58°x94°	RGB AWB AWN R - Red G - Green B - Blue A - Amber W - White	SC: Single chip

The combinations are limited. Correctness of the specification must be approved by the supplier.

LL LINE - monochrome DC 24V

Dimensions

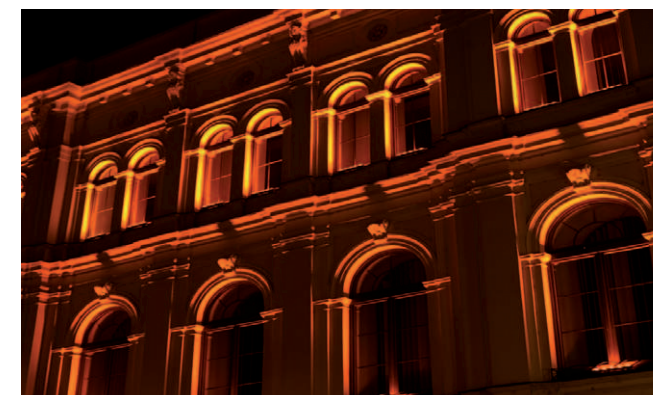


Basic models

	I _c (A)	Weight (kg)
LL LINE L30-SI-I43-06-9W-015-R*-SC	1x0,35A	1,00
LL LINE L60-SI-I43-06-9W-015-R*-SC	1x0,35A	1,50
LL LINE L60-SI-I43-12-17W-015-R*-SC	1x0,70A	1,50
LL LINE L120-SI-I43-12-17W-015-R*-SC	1x0,70A	2,00
LL LINE L120-SI-I43-24-34W-015-R*-SC	1x1,40A	2,00
LL LINE L30-SI-O65-06-9W-015-R*-SC	1x0,35A	1,00
LL LINE L60-SI-O65-06-9W-015-R*-SC	1x0,35A	1,50
LL LINE L60-SI-O65-12-17W-015-R*-SC	1x0,70A	1,50

Accessories

LL LINE L60/120-SI-BRACKET-SINGLE
LL LINE L60/120-SI-BRACKET-DUAL
LL LINE L60/120-SI-BRACKET-FIX



Technical specification

- Ambient temp. (Ta): -30°C (-22°F) < Ta < +40°C (104°F)
- Control data input: 1 channel 24V dimming
- Cooling: conventional

LL	LINE	L30	SI	I43	06	9W	015	R	SC	
		L	30							
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	LINE	L: PWM 24V or DC 24V	30: lenght 300mm 60: lenght 600mm 120: lenght 1200mm	SI: RAL9006	I43 Indoor IP 43 O65: Outdoor IP 65 max. 600mm	06: 6x LED 12: 12x LED 24: 24x LED	9W 17W 34W	015: 13° 030: 30° 040: 38° 060: 58° EL2040: 20°x40° ASY: 58°x94°	*R - Red *G - Green *B - Blue *A - Amber *30K: 3000K *40K:4000K *50K:5000K	SC: Single chip C80: CRI80

The combinations are limited. Correctness of the specification must be approved by the supplier.



LL POINT is a compact lighting system with modern LED technology. It's an efficient alternative to standard halogen accent lighting. Available models: basic, surface, recessed, in ground, with console and pendant in two basic light - versions:

LL POINT - color OneChip contains high power OneChip RGBW / WN LEDs with accurate and uniform light distribution with continuously variable intensity and color changes.

LL POINT - monochrome contains monochrome LEDs in several color variations: R - Red, G - Green, B - Blue, A - Amber or 3000K, 4000K, 5000K white.

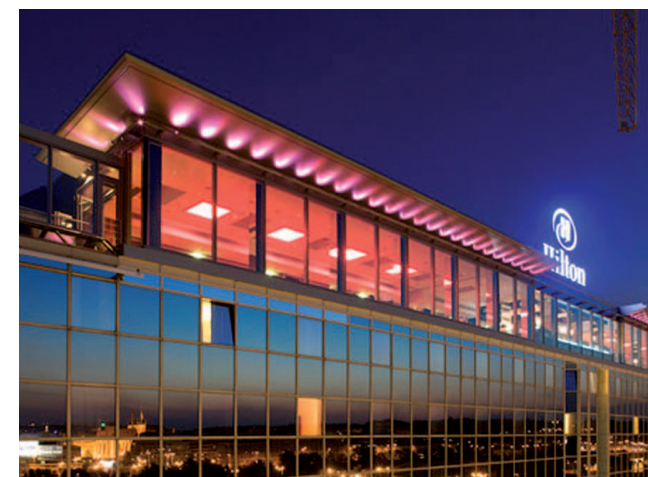
LL POINT must be connected to the splitter device. For intensity and color control is necessary connection with LL ARC DRIVER and LL SPLITTER.

Operate with SPLITTER & DRIVER:



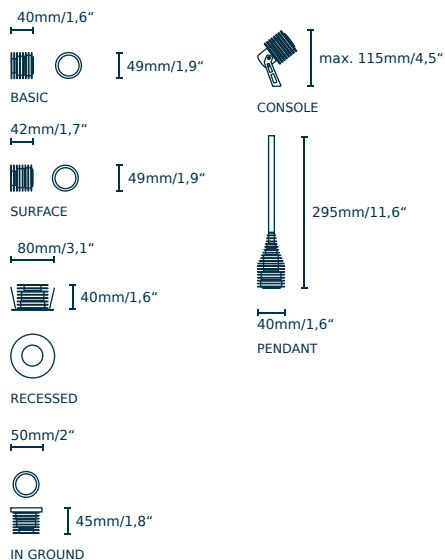
Applications

- decorative and accent lighting
- public areas
- museums, galleries
- hotels, clubs, restaurants
- boutiques, shops



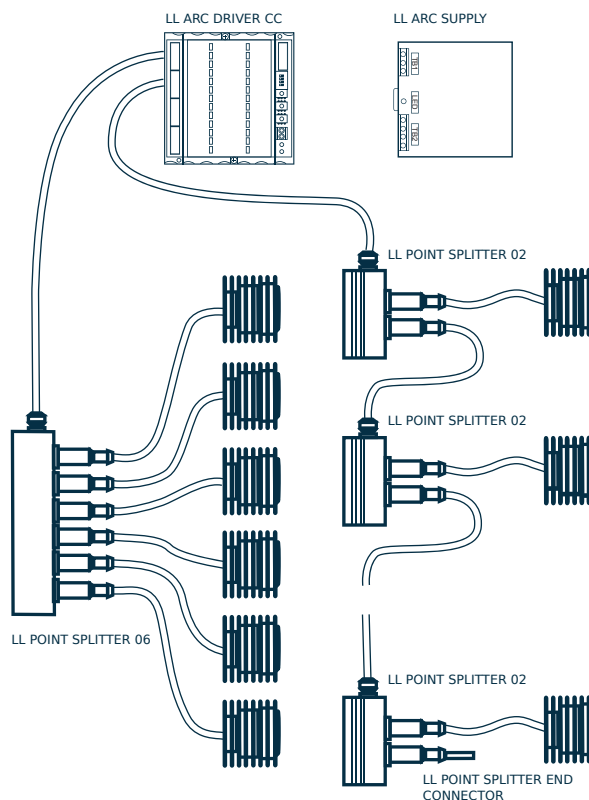
LL POINT - color OneChip CC DRIVER - CC 24V

Dimensions



Technical specification

- Ambient temp. (Ta): max. +40°C (104°F)
- Cooling: conventional



Basic models - color

	I _c (A)	Weight (kg)
LL POINT CB04 SI-I20-01-5W-015-RGBW-OC	4x0,35A	0,2
LL POINT CB04 SI-I20-01-5W-015-WN-OC	2x0,70A	0,2
LL POINT CS04 SI-I20-01-5W-015-RGBW-OC	4x0,35A	0,2
LL POINT CS04 SI-I20-01-5W-015-WN-OC	2x0,70A	0,2
LL POINT CR04 SI-I20-01-5W-015-RGBW-OC	4x0,35A	0,2
LL POINT CR04 SI-I20-01-5W-015-WN-OC	2x0,70A	0,2
LL POINT CG04 SI-I20-01-5W-015-RGBW-OC	4x0,35A	0,2
LL POINT CG04 SI-I20-01-5W-015-WN-OC	2x0,70A	0,2
LL POINT CC04 SI-I20-01-5W-015-RGBW-OC	4x0,35A	0,2
LL POINT CC04 SI-I20-01-5W-015-WN-OC	2x0,70A	0,2
LL POINT CP04 SI-I20-01-5W-015-RGBW-OC	4x0,35A	0,2
LL POINT CP04 SI-I20-01-5W-015-WN-OC	2x0,70A	0,2

Basic models - monochrome

LL POINT CB04 SI-I20-01-3W-015-40K*-C80	1x0,70A	0,2
LL POINT CS04 SI-I20-01-3W-015-40K*-C80	1x0,70A	0,2
LL POINT CR04 SI-I20-01-3W-015-40K*-C80	1x0,70A	0,2
LL POINT CG04 SI-I20-01-3W-015-40K*-C80	1x0,70A	0,2
LL POINT CC04 SI-I20-01-3W-015-40K*-C80	1x0,70A	0,2
LL POINT CP04 SI-I20-01-3W-015-40K*-C80	1x0,70A	0,2

Accessories

LL POINT SPLITTER 02 RGBW/WN 2xOUT, 8pin IP20 Con
LL POINT SPLITTER 06 RGBW/WN 6xOUT, 8pin IP20 Con
LL POINT SPLITTER DAISY CABLE 8pinF/8pinM 2m
LL POINT SPLITTER END CONNECTOR 8pin

LL	POINT	CB04		SI		I20	01	5W	015	RGBW	OC
		C	B04								
	Type	Connection	Mounting & Dimension		Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	POINT	C: Current Driver 0-0,7A or with Splitter for PWM 24V	S: Mounting B: Basic S: Surface R: Recessed G: In Ground C: Console P: Pendant	04: Ø 45mm	SI: RAL9006 BL: RAL9005 W: RAL9010 GR: RAL7035	I20 Indoor IP 20	01: 1x LED	5W 3W	015: 13° 030: 30° 040: 38° 060: 58°	RGBW WN *R - Red *G - Green *B - Blue *A - Amber *30K: 3000K *40K:4000K *50K:5000K	OC: OneChip SC: Single chip C80: CRI80

The combinations are limited. Correctness of the specification must be approved by the supplier.

Basic models - monochrome

	I _c (A)	Weight (kg)
LL FL L500-PCB-O67-300-72W-120-W-SC	1x3,0A	1,00
LL FL L500-PCB-O67-300-72W-120-N-SC	1x3,0A	1,00

Basic models - color

LL FL L500-PCB-O67-300-72W-120-RGB-SC	3x1,0A	1,00
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Accessories

LL FL MOUNTING ACCESSORIES (5x end cup, 15x clip)

LL FLEXI LINE is high intensity and reliability waterproof flexible LED strip.

The installation is easy by using mounting accessories (clips and end cup). Strip can be cut following the cutting lines.

LL FL monochrome – suitable for single white color accent lighting.

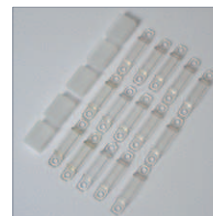
LL FL color – ideal for color changing RGB accent lighting.

For intensity and color control is necessary connection with LL DRIVER.

Applications

- color accent lighting
- border/countour lighting
- concealed lighting

Operate with DRIVER:



Dimensions

5000mm/196,85"

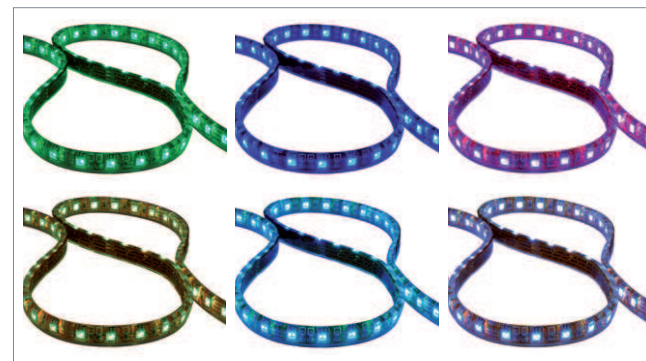


Technical specification

- Ambient temp. (Ta): -25°C ~ +60°C (-13°F ~ +140°F)
- Cooling: conventional
- Control data input: monochrome: 1 channel 24V dimming, color: 3 channels 24V dimming

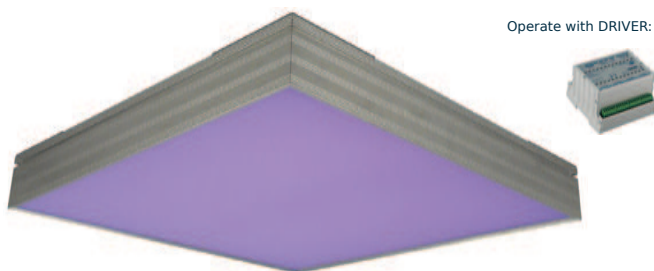


Dynamic color variations



LL	FL	L500	PCB	O67	300	72W	120	RGB	SC
		L	500						
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED
	FLEXI LINE	L: PWM 24V or DC 24V	500: lenght 5000mm	PCB: White PCB	O67: Outdoor IP 67	300: 300x LED	72 W	120: 120°	RGB N W

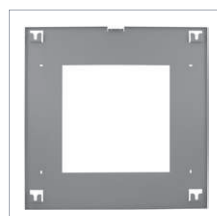
The combinations are limited. Correctness of the specification must be approved by the supplier.



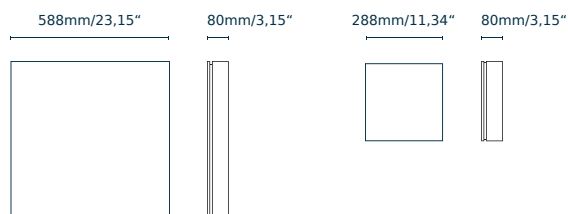
Operate with DRIVER:



LL PANEL is high brightness diffuse panel with RGB additive color mixing LED technology. LL PANEL is characterised by extremely deep colors, maximum homogeneity and continuously variable intensity. For intensity and color control is necessary connection with LL DRIVER.



Dimensions



Technical specification

- Ambient temp. (Ta): max. +40°C (104°F)
- Cooling: conventional
- Control data input: monochrome: 3 channels 24V dimming



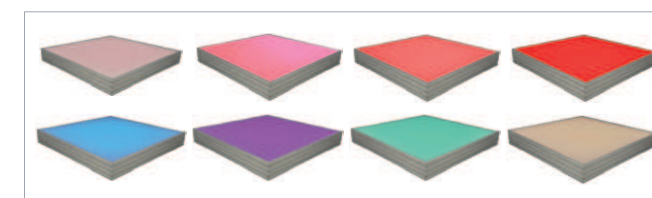
Basic models

	I _c (A)	Weight (kg)
LL P L300-SI-I20-36-9W-O-RGB-SC	3x0,12A	3,50
LL P L600-SI-I20-144-36W-O-RGB-SC	3x0,48A	5,50

Accessories

LL P HOLDER 600 SURFACE

Dynamic color variations



LL	P	L300	SI	I20	36	9W	O	RGB	SC	
		L	300							
	Type	Connection	Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED	LED Chip
	PANEL	L: PWM 24V or DC 24V	300: □ 288mm 600: □ 588mm	SI: RAL9006	I20: Indoor IP 20	36: 36x LED 144: 144x LED	9W 36W	Opal	RGB	SC: Single chip

The combinations are limited. Correctness of the specification must be approved by the supplier.

Basic models

LL GP D600-SI-I20-144-60W-O-RGB-SC

**Weight
(kg)**

6,00

Accessories

LL GP HOLDER 600 SURFACE

LL GRAPHIC PANEL is high brightness diffuse panel with RGB additive color mixing LED technology, with extremely deep colors, maximum homogeneity and continuously variable intensity.

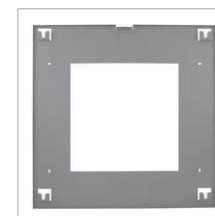
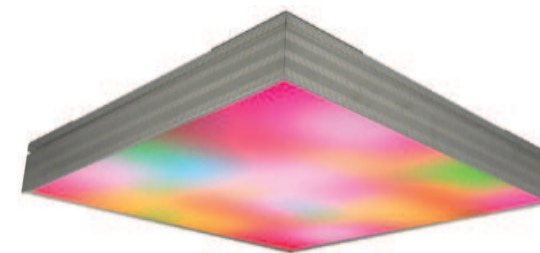
Each graphic point can be controlled separately (36 graphic points). It's possible, by lighting control, to generate innumerable lighting scenes and effects and intersect them each other.

The combination of more luminaries enable creation of graphic spaces and elements, generating the dominant and great scenes point.

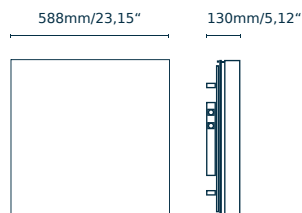
LL GRAPHIC PANEL is compatible with DMX512 for any lighting and graphic effects. It simplifies installations by discovering and addressing lights in a network.

Applications

- decorative lighting
- luminous colored walls and ceilings
- graphic effects



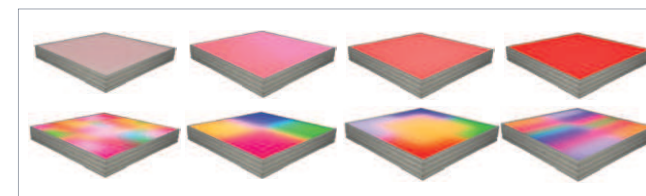
Dimensions



Technical specification

- Ambient temp. (Ta): max. +40°C (104°F)
- Cooling: conventional
- Control daAmbient temp. (Ta): DMX 512

Dynamic color and graphic variations



LL	GP	D600	SI	I20	144	60W	O	RGB	SC
	Type	D Connection	600 Dimension	Product color	IP rating	LED number	Power input	Optic	Color LED LED Chip
	GRAPHIC PANEL	D: AC90-264V, 47-63Hz; DC127-370V; DMX; setup time 1200ms, cold start 70A/230VAC	600: □ 588mm	SI: RAL9006	I20: Indoor IP 20	144: 144x LED	60W	Opal	RGB SC: Single chip

The combinations are limited. Correctness of the specification must be approved by the supplier.

LL AQUA SPOT DC 12V



Operate with DRIVER:



LL AQUA SPOT is an underwater stainless steel floodlight ideal for accent color changing illumination below the water surface.

The range contains highpower LEDs with accurate and uniform light distribution with continuously variable intensity.

For intensity and color control is necessary connection with LL DRIVER.

Applications

- fountains
- pools
- lakes, artificial lakes

Basic models - monochrome

	I _c (A)	Weight (kg)
LL ASPOT L160-SS-O68-15-25W-030-R-SC	1x1,05A	3,00
LL ASPOT L160-SS-O68-15-25W-030-G-SC	1x1,05A	3,00
LL ASPOT L160-SS-O68-15-25W-030-B-SC	1x1,05A	3,00
LL ASPOT L160-SS-O68-15-25W-030-A-SC	1x1,05A	3,00
LL ASPOT L160-SS-O68-15-25W-030-30K-C80	1x1,05A	3,00
LL ASPOT L160-SS-O68-15-25W-030-40K-C80	1x1,05A	3,00
LL ASPOT L160-SS-O68-15-25W-030-50K-C80	1x1,05A	3,00

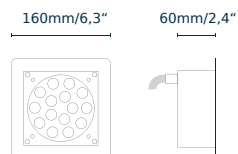
Basic models - color

LL ASPOT L160-SS-O68-15-25W-030-RGB-SC	3x0,35A	3,00
LL ASPOT L160-SS-O68-15-25W-030-AWB-SC	3x0,35A	3,00
LL ASPOT L160-SS-O68-15-25W-030-AWN-SC	3x0,35A	3,00

Accessories

LL ASPOT INSTALLATION BOX

Dimensions



Technical specification

- Ambient temp. (T_a): max. +40°C (104°F)
- Cooling: conventional
- Control data input: monochrome: 1 channel 24V dimming, color: 3 channels 24V dimming



LL	ASPOT	L160	SS	O68	15	25W	030	R	SC
	Type	L Connection	160 Dimension	Product color	IP rating	LED number	Power input	Optic	LED Chip
	AQUA SPOT	L: PWM 12V	160: □ 160mm	SS: Stainless steel	O68: IP 68	15: 15x LED	25W	015: 13° 030: 30° 040: 38° 060: 58°	R - Red G - Green B - Blue A - Amber RGB AWB AWN 30K - 3000K 40K - 4000K 50K - 5000K C80: CRI 80

The combinations are limited. Correctness of the specification must be approved by the supplier.

LL ARC DRIVER

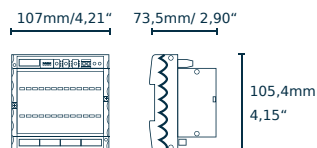


Connection conditions:

- the maximum allowable current for whole DRIVER is 16A
- the maximum allowable current per output is 1,4 A
- do not operate with more luminaries than the maximum permitted number
- LL ARC DRIVER is designed primarily for LL LED products

Technical specification

- Input power: 0-16A, DC 24V
- Output: 12 x LED PWM
- Ambient temp. (Ta): -10°C (14°F) ~ +40°C (104°F)
- Weight: 1,00 kg
- Cooling: conventional
- Installation: DIN TS35-6DIN



Basic models

LL ARC DRIVER 12

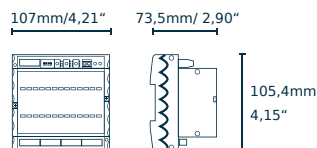
LL ARC DRIVER CC



LL ARC DRIVER CC is a 9 channels LED driving systems which provide the ultimate configuration flexibility and variable connection abilities. The driver is designed for free operation in architectural applications and building integration systems. Each channel has full true 16 bit PWM dimming technology for optimal LED driving curve ideal for unique LED color mixing.

Technical specification

- Input power: DC 24V
- Output: Protocol USITT DMX512
- Ambient temp. (Ta): -10°C (14°F) ~ +40°C (104°F)
- Weight: 1,00 kg
- Cooling: conventional
- Installation: DIN TS35-6DIN



Basic models

LL ARC DRIVER 09 350 CC

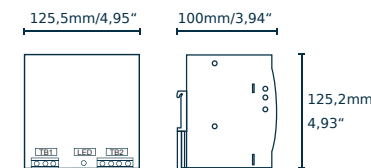
LL ARC DRIVER 09 700 CC

LL ARC SUPPLY



Technical specification

- Input power: AC 100-260V
- Output: 24V
- Ambient temp. (Ta): -10°C (14°F) ~ +40°C (104°F)
- Weight: 1,00 kg
- Cooling: conventional
- Installation: surface



Basic models

LL POWER SUPPLY 240W/24V DIN

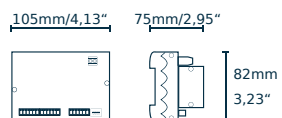
LL IN8 DMX Input modul



LL IN8 DMX is an input device. It includes 8 digital inputs, which can be switched with any contact. The input module is designed as an interface for connecting any arbitrary button control to the control system. The protocol of digital input and output is DMX512.

Technical specification

- Input power: DC 24V
- Output: Protocol USITT DMX512
- Ambient temp. (Ta): -10°C (14°F) ~ +40°C (104°F)
- Weight: 1,00 kg
- Cooling: conventional
- Installation: DIN TS35-6DIN



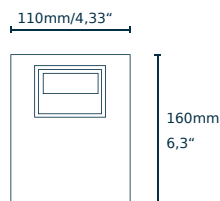
LL UPLOADER



LL UPLOADER is the programmer dedicated for LEADER LIGHT luminaires address setup. This programmer can change the DMAC address of the luminaire, which is stored in the luminaire EEPROM memory.

Technical specification

- Input power: AC 230V
- Ambient temp. (Ta): -0°C (0°F) ~ +50°C (130°F)
- Cooling: conventional

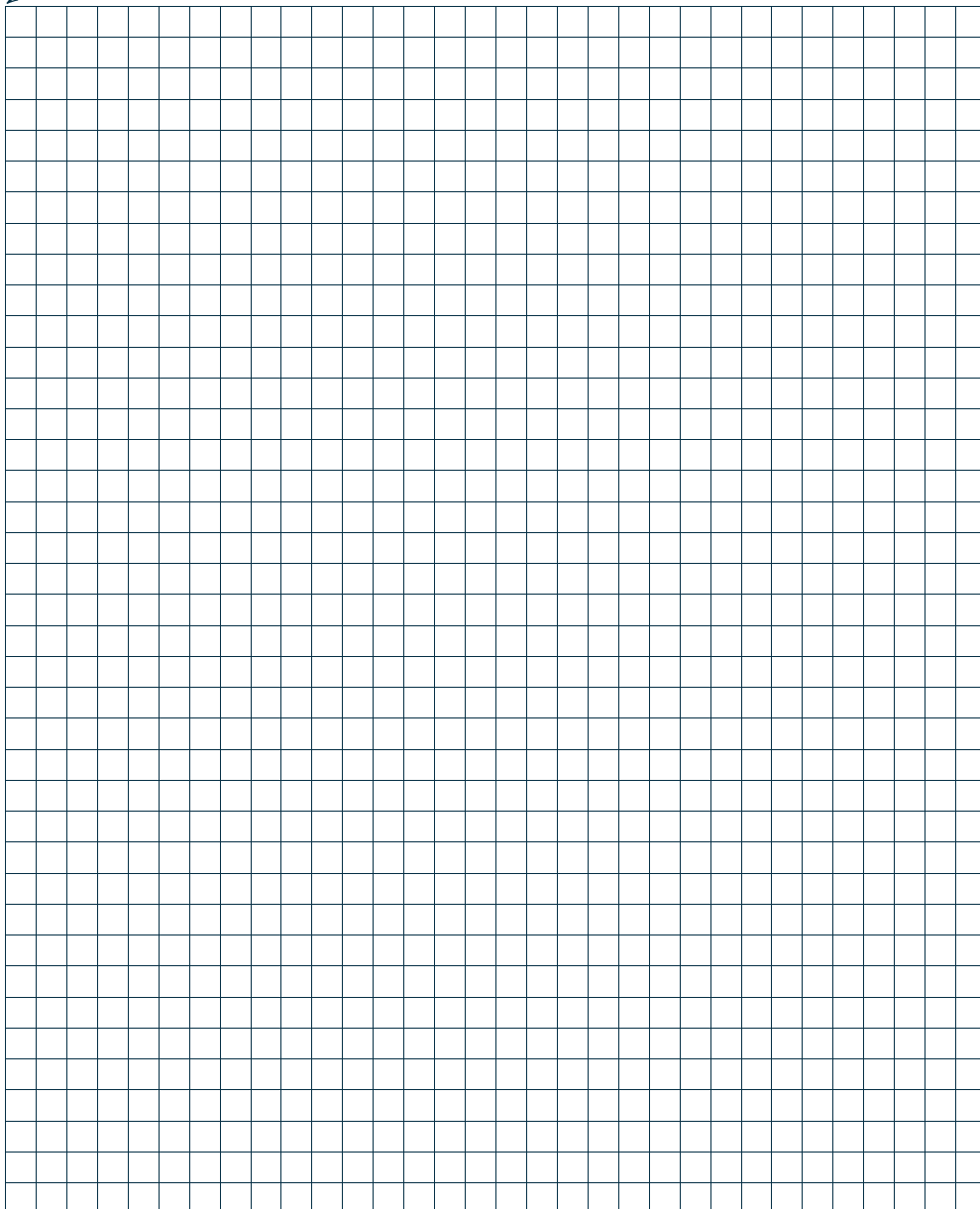


Basic models

LL IN8 DMX

Basic models

LL UPLOADER



Product colors

Standard color for architectural products is RAL 9006



SI: RAL 9006

Optional colors



W: RAL 9010



GR: RAL 7035



BL: RAL 9005



B: RAL 7016



DG: RAL 7032



RD: RAL 3003



BU: RAL 5010



RAL xxxx





LEADER LIGHT

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