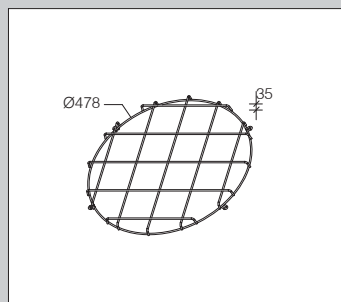
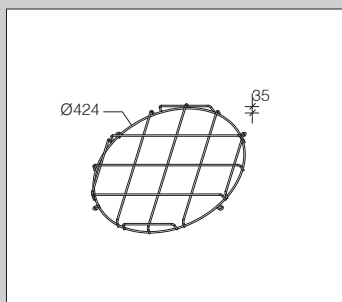
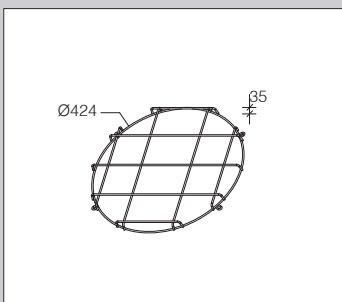




Accessories



acc. 24 protection guard
995776-00
Graphite plastic-coated steel rod protection guard. Screw mounting. For Astro 12 LED.

acc. 24 protection guard
995773-00
Graphite plastic-coated steel rod protection guard. Screw mounting. For Astro 16-24 LED and HP/HE 36-60 LED.

acc. 24 protection guard
995771-00
Graphite plastic-coated steel rod protection guard. Screw mounting. For Astro 28-32-36 and HP/HE 72 LED.

Complete with mounting bracket and graduated scale goniometer which allows for accurate pointing. The fixture is equipped with anti-condensation valve for air recirculation and IP68 connector for line connection with **no need to open the fixture.**



Housing/Frame: in die-cast aluminium with cooling fins integrated into the cover and designed with a very small surface exposed to wind.

Optics: made of PMMA with high temperature resistance and UV rays.


Diffuser: tempered glass, 4 mm thick, resistant to thermal shocks and impacts (UNI-EN 12150-1: 2001).

Coating: the standard powder coating consists of a first metal surface pre-treatment stage and of single layer of UV-stabilised, corrosion and salt resistant polyester powder coating.

Standard supply: automatic temperature control inside the device with automatic resetting (except for versions with separate gear box).

Standard: DIMM 1-10V (except for versions with external driver).

Possibility to control each individual light point (see table on p. XIX).

 Electronic safety device to protect the LED module and the related ballast compliant with EN 61547.

It works in two modes:

- differential mode: surge between power cables and between the phase and neutral.
- common mode: surge between power, L/N and ground cables or between the fixture's body if it is of class II and installed on a metal pole. (On request: protection up to 10KV.)

LED: Power factor ≥ 0.95 .

Luminous flux maintenance		
90%	100.000h (L90B10)	12-16-24-28 LED
90%	80.000h (L90B10)	32-36 LED

FLOODLIGHTS

On request



On request: orientable arm.

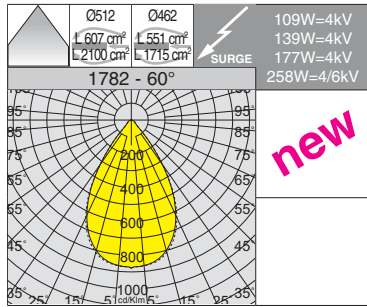


On request: coating compliant with UNI EN ISO 9227 Corrosion tests in artificial atmospheres for aggressive environments

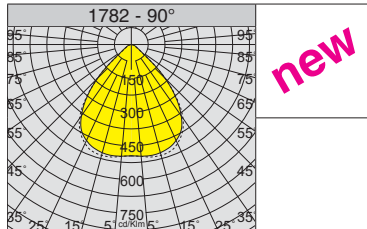
Low Optical Flicker
Less Than x%
Up to yHz



The UL Verified Mark is identified with the "Low Flicker Risk" logo that includes a maximum flicker value of 8% at frequencies of ≥ 400 Hz.



new



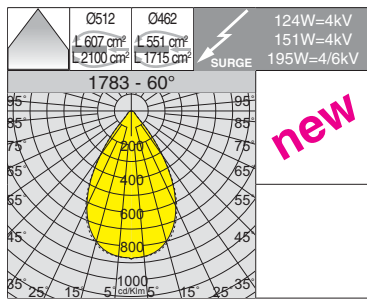
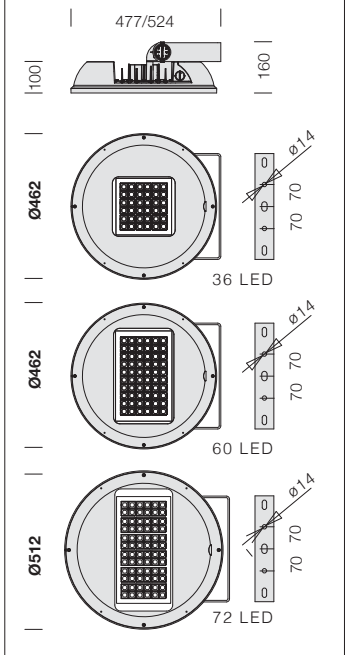
new

50.000h
L90B10

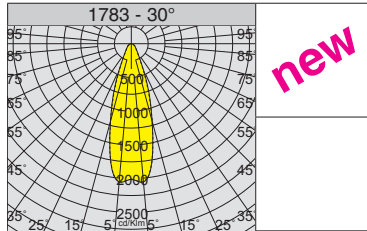


1782 Astro HP - high performance						
wattage	colour	CLD CELL			LUMEN OUTPUT (tq= 25 °C)	
		weight	Ø	code	W tot	K - ølm - CRI - degrees
LED	graphite	13.80	462	320000-00	109	4000K - 15131lm - CRI 80 - 60°
LED	graphite	13.80	462	320001-00	139	4000K - 17816lm - CRI 80 - 60°
LED	graphite	13.80	462	320002-00	177	4000K - 23236lm - CRI 80 - 60°
LED	graphite	14.00	512	320003-00	258	4000K - 34987lm - CRI 80 - 60°
LED	graphite	14.00	512	320004-00	258	4000K - 33295lm - CRI 80 - 30°
LED	graphite	14.00	512	320005-00	258	4000K - 34601lm - CRI 80 - 90°

IP66IK08



new



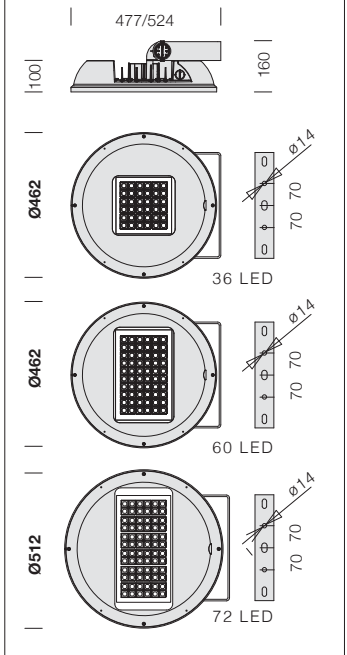
new

50.000h
L90B10



1783 Astro HE - high efficiency						
wattage	colour	CLD CELL			LUMEN OUTPUT (tq= 25 °C)	
		weight	Ø	code	W tot	K - ølm - CRI - degrees
LED	graphite	13.80	462	320010-00	124	4000K - 18135lm - CRI 80 - 60°
LED	graphite	13.80	462	320011-00	151	4000K - 22236lm - CRI 80 - 60°
LED	graphite	14.00	512	320012-00	195	4000K - 27488lm - CRI 80 - 60°
LED	graphite	14.00	512	320014-00	195	4000K - 26159lm - CRI 80 - 30°
LED	graphite	14.00	512	320015-00	195	4000K - 27195lm - CRI 80 - 90°

IP66IK08



IP66IK08 □

477/524

12 LED

16 LED

24 LED

28 LED



101W=6/8kV
137W=6/8kV
202W=6/8kV
235W=6/8kV

1785 - 60°

LOF
137W=<1%
235W=<1%

LF
101W=4%
202W=4%

Ø462 L 551 cm²
Ø512 L 607 cm²
L 1715 cm² L 2100 cm²



1785 Astro - symmetric 60°

wattage (700mA)		CLD CELL-D (1-10V)			LUMEN OUTPUT (tq= 25 °C)	
colour	weight	Ø	code	W tot	K - ølm 700mA - CRI - degrees	
grey	12.25	462	330059-00	101	4000K - 11068lm - CRI 70 - 60°	
graphite	12.25	462	330058-00			
grey	12.25	462	330054-00	137	4000K - 14758lm - CRI 70 - 60°	
graphite	12.25	462	330055-00			
grey	13.80	462	330050-00	202	4000K - 23244lm - CRI 70 - 60°	
graphite	13.80	462	330052-00			
grey	14.00	512	330051-00	235	4000K - 26357lm - CRI 70 - 60°	
graphite	14.00	512	330053-00			

IP66IK08 □



381W=4/6kV

1785 - 60°

LF
381W=8%

Ø512 L 654 cm²
L 2100 cm²



On request: orientable arm

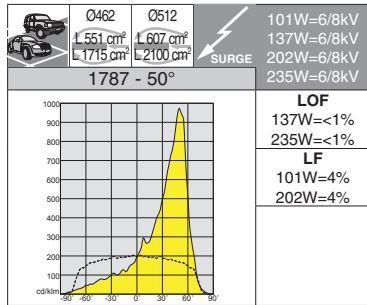
1785 Astro - symmetric 60°

wattage (1050mA)		CLD CELL			LUMEN OUTPUT (tq= 25 °C)	
colour	weight	Ø	code	W tot	K - ølm 1050mA - CRI - degrees	
grey	17.20	512	330056-00	381	4000K - 37259lm - CRI 70 - 60°	
graphite	17.20	512	330057-00			

Version with separate gear box.

LED: Luminous flux maintenance 90%: 100.000h (L90B10). Power factor ≥0.95.

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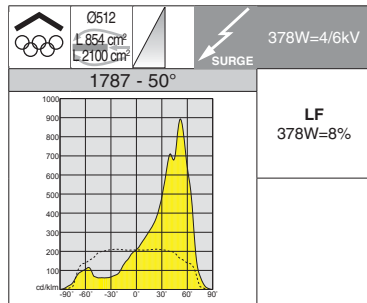
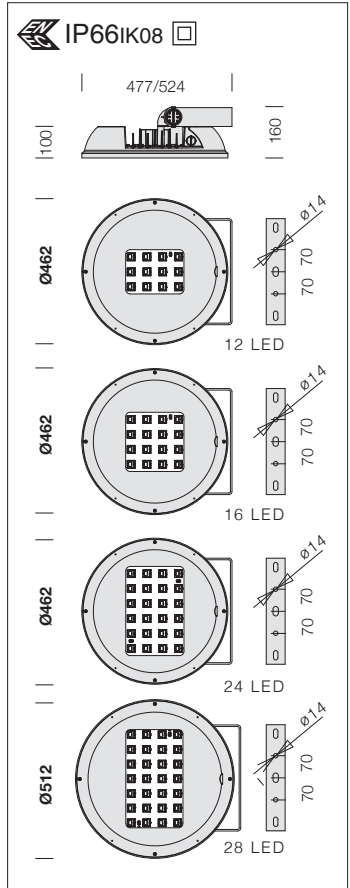


100.000h
L90B10



1787 Astro - asymmetric 50°						
		CLD CELL-D (1-10V)			LUMEN OUTPUT (tq= 25 °C)	
wattage (700mA)	colour	weight	Ø	code	W tot	K - ølm 700mA - CRI - degrees
LED	grey	12.25	462	330079-00	101	4000K - 9732lm - CRI 70 - 50°
LED	graphite	12.25	462	330078-00	137	4000K - 12976lm - CRI 70 - 50°
LED	grey	12.25	462	330074-00	202	4000K - 20438lm - CRI 70 - 50°
LED	graphite	12.25	462	330075-00	235	4000K - 25953lm - CRI 70 - 50°
LED	grey	13.80	462	330070-00		
LED	graphite	13.80	462	330072-00		
LED	grey	14.00	512	330071-00		
LED	graphite	14.00	512	330073-00		

Upon request : 5700K - CRI 90 version.



100.000h
L90B10



On request: orientable arm

1787 Astro - asymmetric 50°						
		CLD CELL			LUMEN OUTPUT (tq= 25 °C)	
wattage (1050mA)	colour	weight	Ø	code	W tot	K - ølm 1050mA - CRI - degrees
LED	grey	17.20	512	330076-00	378	4000K - 36000lm - CRI 70 - 50°
LED	graphite	17.20	512	330077-00		

Version with separate gear box. Upon request : 5700K - CRI 90 version.



LED: Luminous flux maintenance 90%: 100.000h (L90B10). Power factor ≥0.95.

IP66IK08

472/518

250

Ø14

70 70

12 LED

Ø462

16 LED

Ø462

24 LED

Ø462

32 LED

Ø512



101W=6/8kV
137W=6/8kV
202W=6/8kV
270W=6/8kV

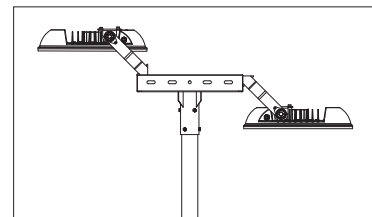
0462
L 457 cm²
L 1867 cm²

0512
L 503 cm²
L 2227 cm²

1794 - 30°

LOF
137W=<1%
270W=<1%

LF
101W=4%
202W=4%



1794 Astro - asymmetric 30°

		CLD CELL-D (1-10V)			LUMEN OUTPUT (tq= 25 °C)	
wattage (700mA)	colour	weight	Ø	code	W tot	K - ølm 700mA - CRI -
LED	grey	13.70	462	330129-00	101	4000K - 9150lm - CRI 70 - 30°
LED	graphite	13.70	462	330128-00		
LED	grey	13.70	462	330124-00	137	4000K - 12101lm - CRI 70 - 30°
LED	graphite	13.70	462	330125-00		
LED	grey	14.90	462	330120-00	202	4000K - 18152lm - CRI 70 - 30°
LED	graphite	14.90	462	330122-00		
LED *	grey	15.10	512	330121-00	270	4000K - 24203lm - CRI 70 - 30°
LED *	graphite	15.10	512	330123-00		

* 32 LED version with luminous flux maintenance 90%: 80.000h (L90B10).
Upon request : 5700K - CRI 90 version.

IP66IK08

250

Ø512

Ø14 170/70



395W=4/6kV

0512
L 813 cm²
L 2227 cm²

1794 - 30°

LF
395W=8%



1794 Astro - asymmetric 30°

		CLD CELL			LUMEN OUTPUT (tq= 25 °C)	
wattage (900mA)	colour	weight	Ø	code	W tot	K - ølm 900mA - CRI - degrees
LED	grey	18.10	512	330126-00	395	4000K - 29493lm - CRI 70 - 30°
LED	graphite	18.10	512	330127-00		

Version with separate gear box. Upon request : 5700K - CRI 90 version.

LED: Luminous flux maintenance 90%: 80.000h (L90B10).
Power factor ≥0.95.

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LOW FLICKER

Equipment level protection (EPL)

ZONE	EPL
0	"Ga"
1	"Ga" o "Gb"
2	"Ga", "Gb" o "Gc"
20	"Da"
21	"Da" o "Db"
22	"Da", "Db" o "Dc"

Hazardous places according to Legislative Decree 233/03

Business	Places
chemical and petrochemical industry	gas-fuelled heating plants with P>35Kw
pharmaceutics industry	garages, repair shops, body shops
metal processing	fuel distribution
food industry (storage and processing of cereals, flour and sugar)	bread baking ovens
processing of wood	places where painting processes occur
fabric and spinning industry	distilleries, production of alcoholic beverages

ELECTRICAL SYSTEMS FOR AREAS CONTAINING EXPLOSIVE GAS:

Ex =	Electrical system built and tested for utilization in an atmosphere filled with explosive gasses.
nA =	The electrical system does not produce sparks when operating normally.
II =	Electrical system suitable for areas with a potentially explosive atmosphere, different from mines, with firedamp.
Gc =	Enhanced protection level
T4 =	Maximum internal or external surface temperature; classification according to regulation cei en 60079-0 table 2
IP66 =	Housing entirely protected against dust and the water jets

ELECTRICAL SYSTEMS FOR AREAS CONTAINING EXPLOSIVE POWDERS:

Ex =	Electrical system built and tested for utilization in an atmosphere containing powders.
IIIC	Electrical equipment for premises with potentially explosive atmospheres due to the presence of combustible dust, other than mines with the presence of firedamp
Dc	Enhanced protection level
tc	Protection against explosive atmospheres due to the presence of dust where the electrical equipment is equipped with an enclosure
22 =	Permitted hazardous area.
IP6X =	Housing entirely protected against dust
T 135°C =	Maximum temperature in a dust-free environment

SELECTION OF ELECTRICAL SYSTEMS IN RELATION TO HAZARDOUS AREAS

HAZARDOUS AREA	CLASSIFICATION	EPL	PROTECTIONS PERMITTED
	0	Ga	"ia" Intrinsic safety "ma" Encapsulation Two independent EPLs "Gb"
ATMOSPHERE CONTAINING GAS	1	Gb	"d" Explosion proof "e" Increased safety "ib" Intrinsic safety "m" "mb" Encapsulation "o" Oil immersion "p, px, py" Pressurisation "q" Powder filling Field bus intrinsically safe concept (FISCO) Optical radiation safety
	2	Gc	"ic" Intrinsic safety "mc" Encapsulation "n, nA" Non sparking "nR" Restricted breathing "nL" Energy limitation "nC" Sparking device and components "pz" Pressurisation Field bus non-incendive concept Optical radiation safety
ATMOSPHERE CONTAINING GAS	20	Da	"Da" "Id" Intrinsic safety "md" Encapsulation "tD" Protection by enclosure
	21	Db	"iD" Intrinsic safety "mD" Encapsulation "tD" Protection by enclosure "pD" Pressurisation
	22	Dc	"iD" Intrinsic safety "mD" Encapsulation "tD" Protection by enclosure "pD" Pressurisation

RELEVANT REGULATIONS

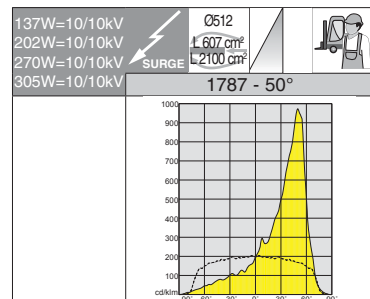
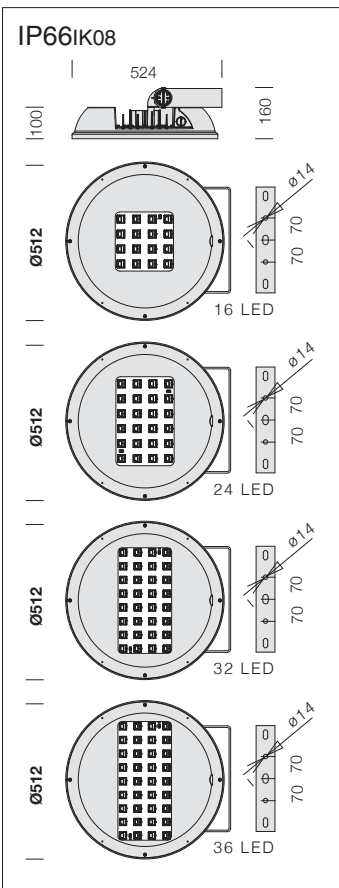
Directive 94/9/CE entrusts conformed European regulations with the task of setting out basic technical requirements to guarantee safety in explosion-prone areas, replacing contrasting national and European regulations belonging to the same sector.

IEC 60079-0	Electrical systems for potentially explosive atmospheres GENERAL REGULATIONS
IEC 60079-15	Electrical systems for potentially explosive atmospheres. PROTECTION METHOD "n"
IEC 60079-10-1	Explosive atmospheres Classification of hazardous locations. Explosive atmospheres due to the presence of gas
IEC 60079-14	Explosive atmospheres Design, selection and installation of electrical equipment
IEC 60079-10-2	Explosive atmospheres Classification of hazardous locations. Explosive atmospheres due to the presence of dust
IEC 60079-31	Explosive atmospheres Fixtures with protection by "t" enclosure for use in the presence of combustible dust
IEC 60079-28	Explosive atmospheres Protection of equipment and transmission systems using optical radiation



FLOODLIGHTS

1787 ATEX	
Protection against explosions	II 3G Ex nA OP IS IIC T4 IP66 Gc II 3D Ex tc IIIC T135°C IP66 Dc
Allowed dangerous area	Zone 2; Zone 22
Allowed room temperature	-20°C ÷ +40°C
Degree of protection	IP66
Installation	wall - ceiling - ground
Casing mechanical resistance	IK08
Reference regulations	EN 60079-0; EN 60079-15; EN 60079-31; EN 60079-28



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1787 Astro ATEX - asymmetric 50°						
		CLD CELL			LUMEN OUTPUT (tq= 25 °C)	
wattage (700mA)	colour	weight	Ø	code	W tot	K - ølm 700mA - CRI - degrees
LED	grey	14.00	512	330189-00	137	4000K - 12976lm - CRI 70 - 50°
LED	graphite	14.00	512	330188-00		
LED	grey	14.00	512	330184-00	202	4000K - 19465lm - CRI 70 - 50°
LED	graphite	14.00	512	330183-00		
LED *	grey	14.00	512	330185-00	270	4000K - 25954lm - CRI 70 - 50°
LED *	graphite	14.00	512	330186-00		
LED *	grey	14.00	512	330181-00	305	4000K - 29198lm - CRI 70 - 50°
LED *	graphite	14.00	512	330182-00		

* 32-36 LED version with luminous flux maintenance 90%: 80.000h (L90B10).