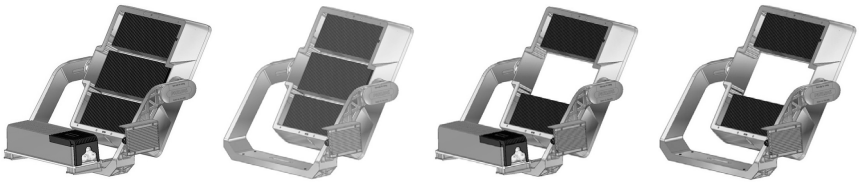
PHILIPS

ArenaVision LED gen2 Floodlight

BVP425/BVP415

BVP425 HGB BVP425 BV BVP415 HGB BVP415 BV



1,25 RG1

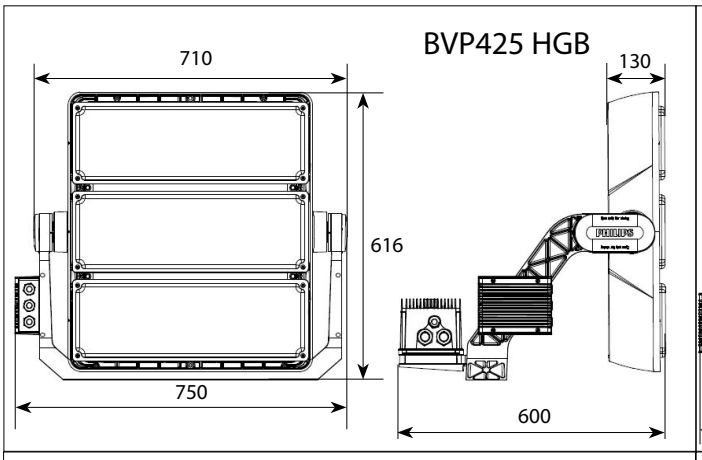
Type	LIFE L80B10	led color	lumen	W +/-10%	outdoor	indoor	outdoor	kg	m²	m²	m²	kg	m²	m²	m²
								HGB	15º	40º	65º	BV	15º	40º	65º
BVP425	50000h	957	161000	1471	15° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	161000	1471	20° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	161000	1471	25° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	155000	1392	30° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	149000	1314	35° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	142000	1236	40° C		-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	136000	1160	45° C		-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	136000	1160	-	35° C	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	957	118000	964	-	45° C	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	178000	1471	15° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	178000	1471	20° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	178000	1471	25° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	171000	1392	30° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	164000	1314	35° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	157000	1236	40° C		-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	150000	1160	45° C		-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	150000	1160	-	35° C	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	857	130000	964	-	45° C	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	202000	1471	15° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	202000	1471	20° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	202000	1471	25° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	193000	1392	30° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	186000	1314	35° C	-	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	178000	1236	40° C		-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	170000	1160	45° C		-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
BVP425	50000h	757	170000	1160	-	35° C	-40° C	32,5	0,39	0,48	0,51	26	0,23	0,32	0,35
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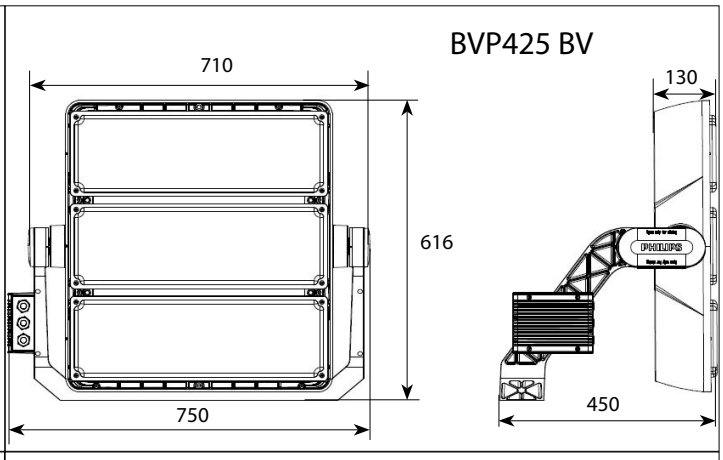
© 4 / 2017, Philips Lighting Holding B.V. All rights reserved

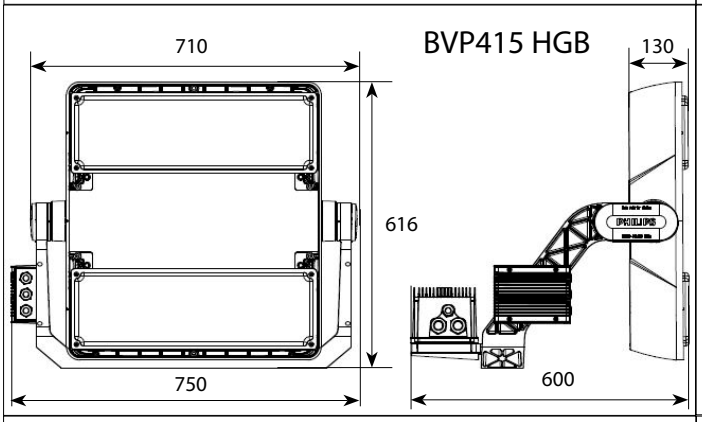
Printed in Spain
Data subject to change without notice
Keep for future reference: www.philips.com/lighting

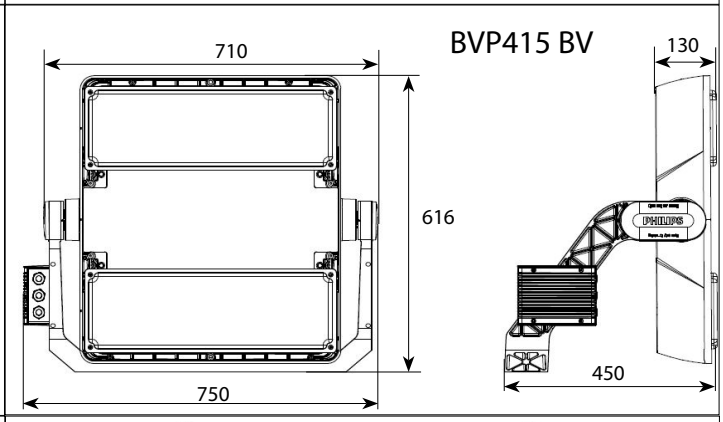
Type	LIFE L80B10	led color	lumen	W +/-10%	outdoor	indoor	outdoor	kg	m²	m²	m²	kg	m²	m²	m²
								HGB	15º	40º	65º	BV	15º	40º	65º
BVP415	50000h	957	107000	981	15° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	107000	981	20° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	107000	981	25° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	102000	928	30° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	99000	876	35° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	94000	824	40° C		-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	90000	773	45° C		-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	90000	773	-	35° C	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	957	77000	643	-	45° C	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	118000	981	15° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	118000	981	20° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	118000	981	25° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	113000	928	30° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	109000	876	35° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	104000	824	40° C		-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	99000	773	45° C		-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	99000	773	-	35° C	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	857	87000	643	-	45° C	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	134000	981	15° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	134000	981	20° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	134000	981	25° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	129000	928	30° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	124000	876	35° C	-	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	119000	824	40° C		-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	113000	773	45° C		-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	113000	773	-	35° C	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22
BVP415	50000h	757	99000	643	-	45° C	-40° C	28,5	0,34	0,4	0,38	22	0,18	0,24	0,22

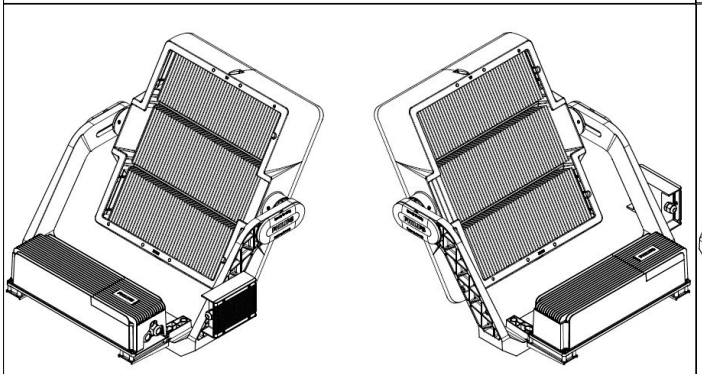
Any modification on the luminaire will cancel the warranty
Tolerances on weight: +/-10%
Tolerances on light flux: +/- 7%
Tolerances on system power: +/-10%
Tolerances on CCT: +/-400°K



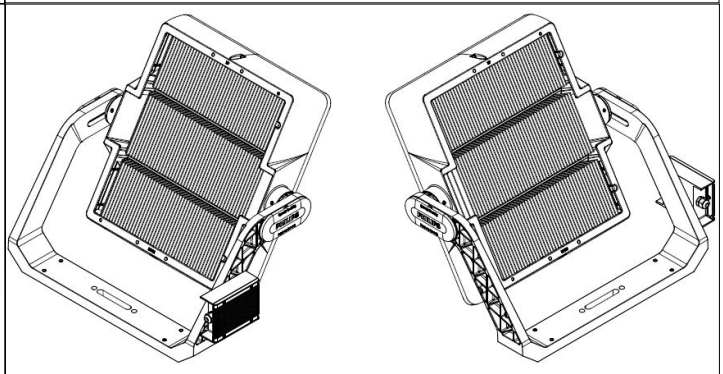




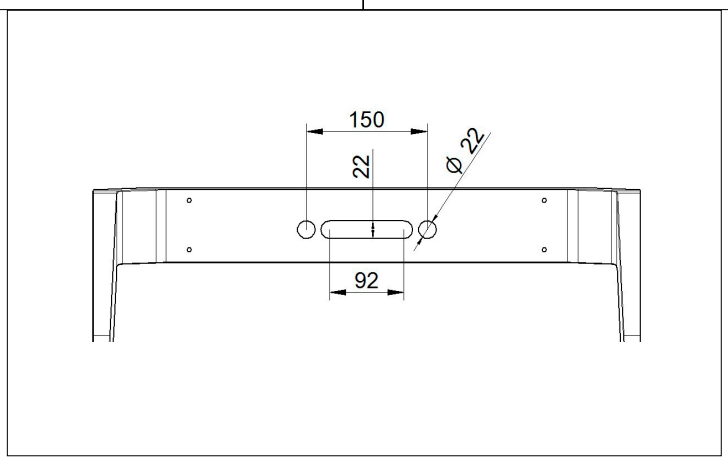




HGB VERSION

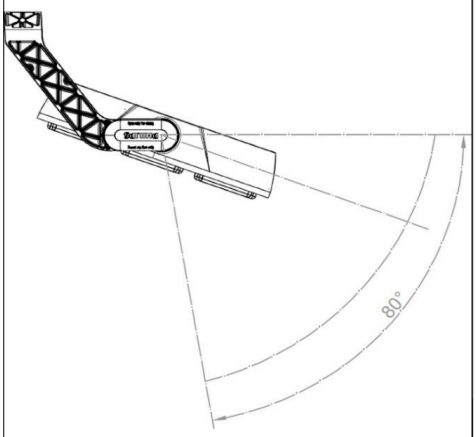


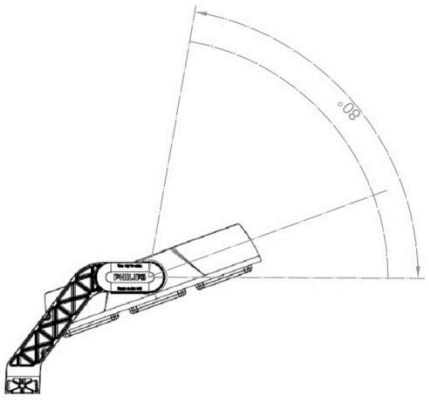
BV VERSION

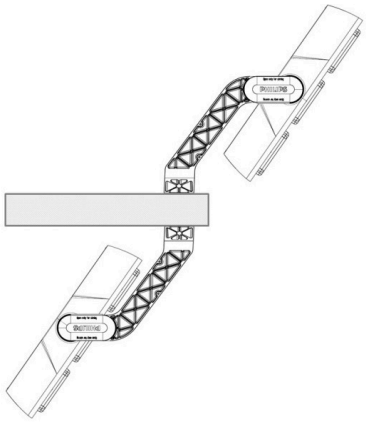


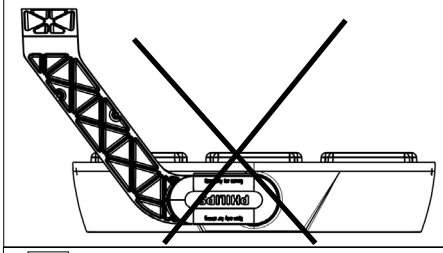
BRACKET FIXATION DETAIL

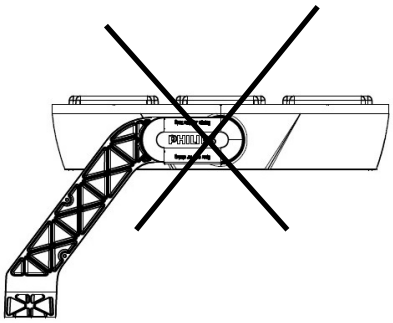
In luminaire version for swimming pool applications (SWP):
Fixture mounting system (including fasteners) needs to be compliant with EN 13451-1 or MIS 1203
Mounting system and product shall be a subject of periodical inspection at least every year.
Any rusted element needs to be replaced.



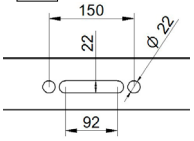








1



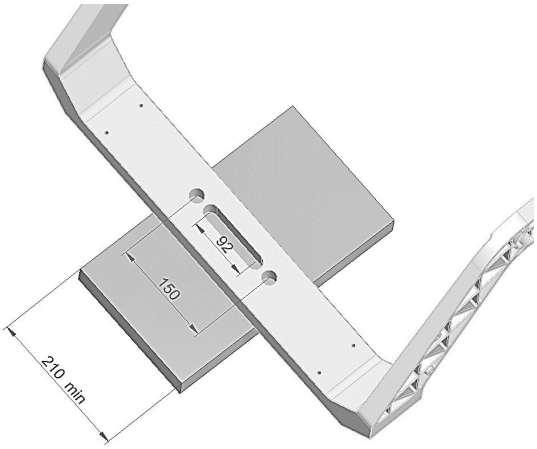
M20

100Nm

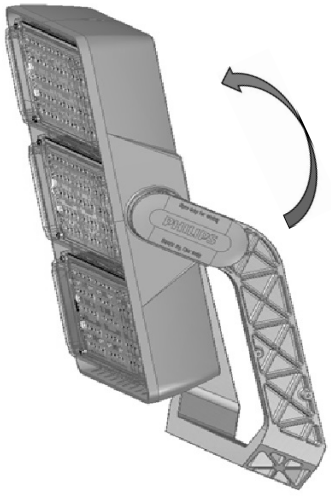
RECOMMENDED WASHER
ACCORDING TO DIN9021

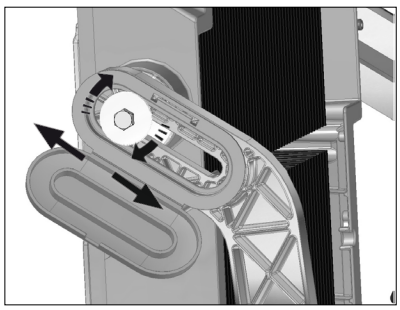
The fasteners have to resist environment corrosion.
Stainless steel screws not recommended and protective coating might be applied.

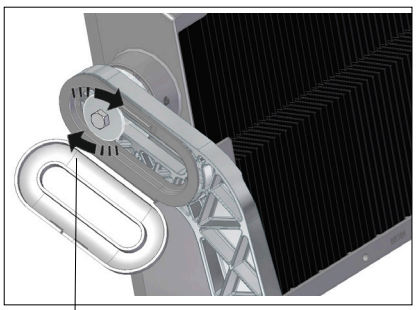
In case of using only one fixation point and if the luminaire is higher >3m, the use of a 2nd fixing security system is needed



2

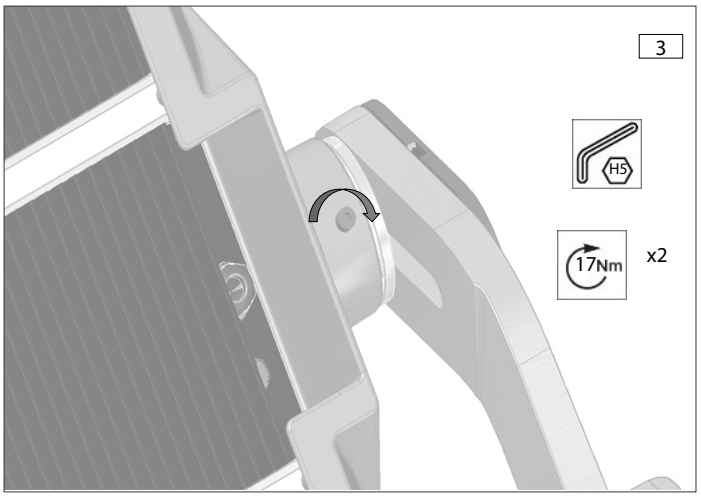






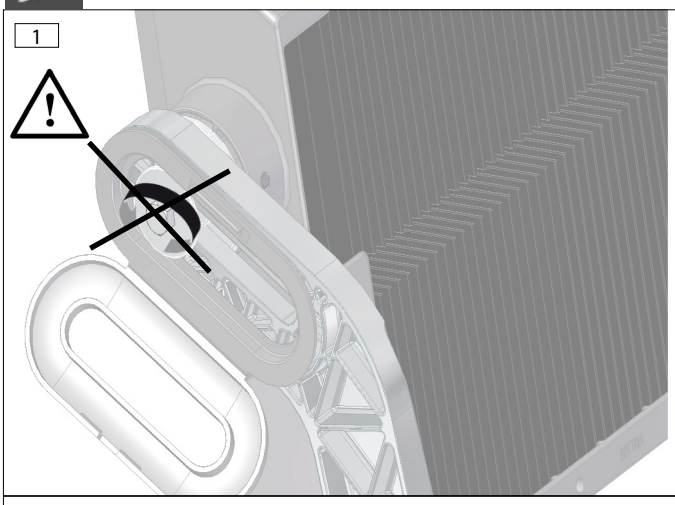


50Nm x2

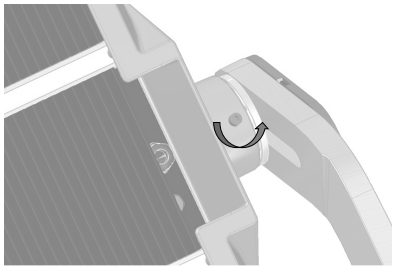


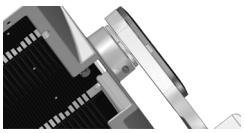
MAINTENANCE

1



2

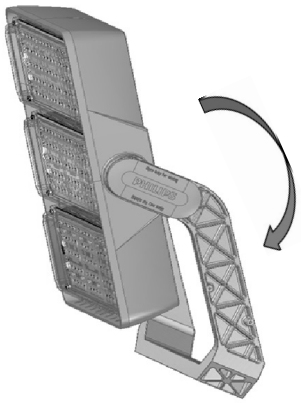




Mark the position with a pen (to remember the position) before untighting the grub screw and rotate the luminaire.

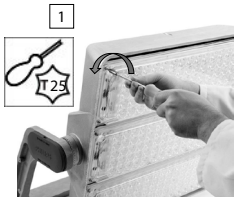
10 x2

3

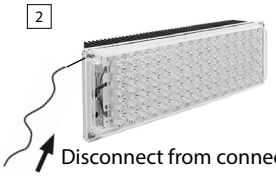


4

1

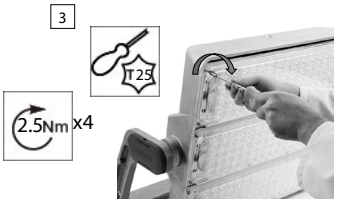


2

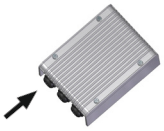


Disconnect from connection box

3

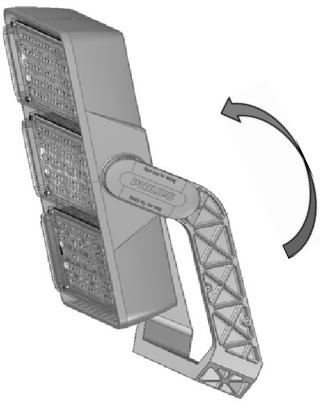


4

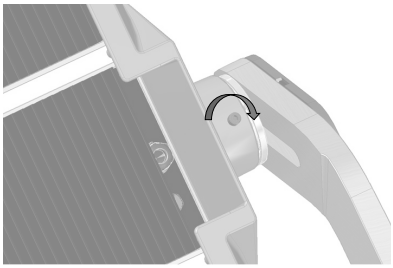


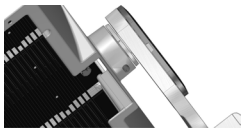
Connect the cable of the module to the connection box

5



6

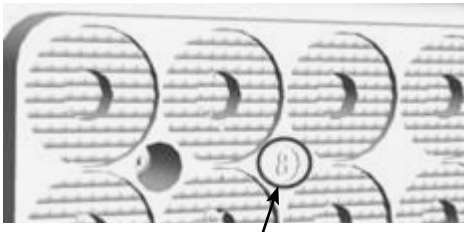




Rotate back to the marked position before tightening

10

17Nm x2

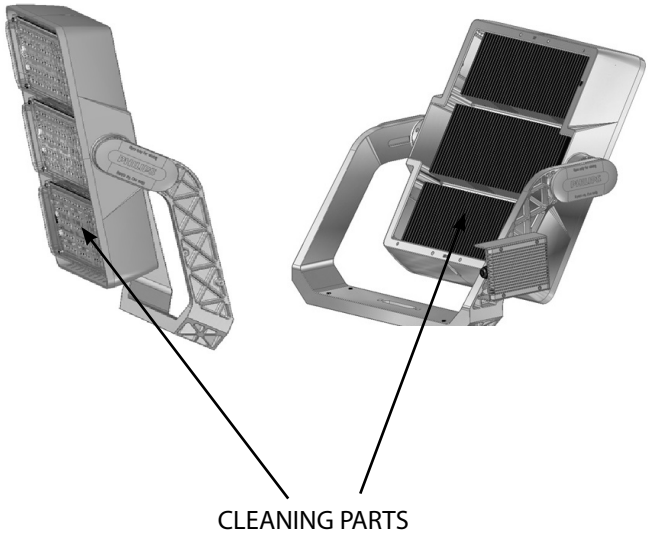


OPTIC TYPE



LIGHT MODULE LABEL
12 NC: 9123XXXXXXXX
I : 0,8-2,0 A
Tc: 90ºC

CLEANING

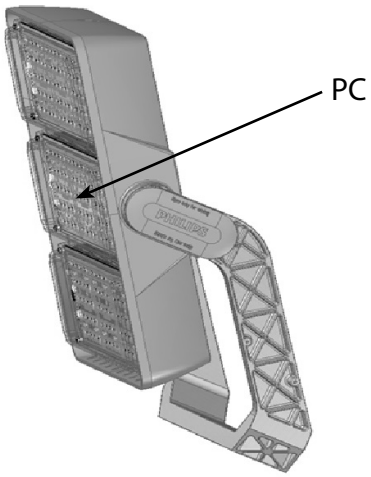


CLEANING PARTS

1. Remove physical elements that can block and modify the aircooling (heatsink fins)
2. Cleaning Frequency (depending on installation place and environment)

Cleaning Interval (months)	Pollution Category		
	High	Medium	Low
6	0,91	0,92	0,96
12	0,86	0,88	0,94
18	0,83	0,85	0,92
24	0,81	0,83	0,91
36	0,79	0,82	0,9

OPTICAL COVER



PC

CLEANING TECHNIQUES

1. Always test the sample with the cleaner and according to the chosen technique before
2. Do not leave cleaners on plastic parts for a long period
3. Do not apply cleaners in direct sunlight or at elevated temperatures

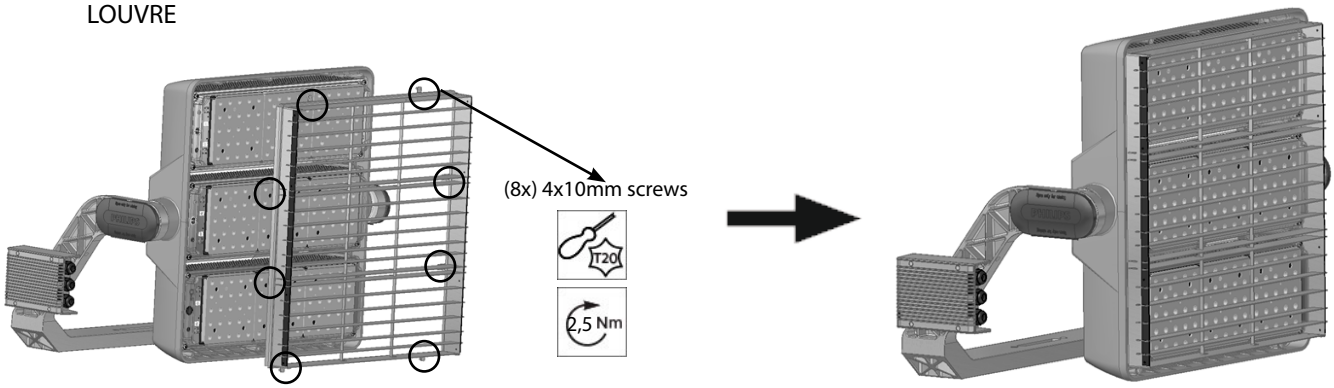
RECOMMENDED
Mild Soap
Lukewarm Water
Soft/Grid free Cloth
Sponge
Water Cleaning

FORBIDDEN
Abrasive Cleaners
Highly Alkaline Cleaners
Aromatic Solvents
Halogenated Solvents
Brushes
Steel Wood
Squeegess, razorblades

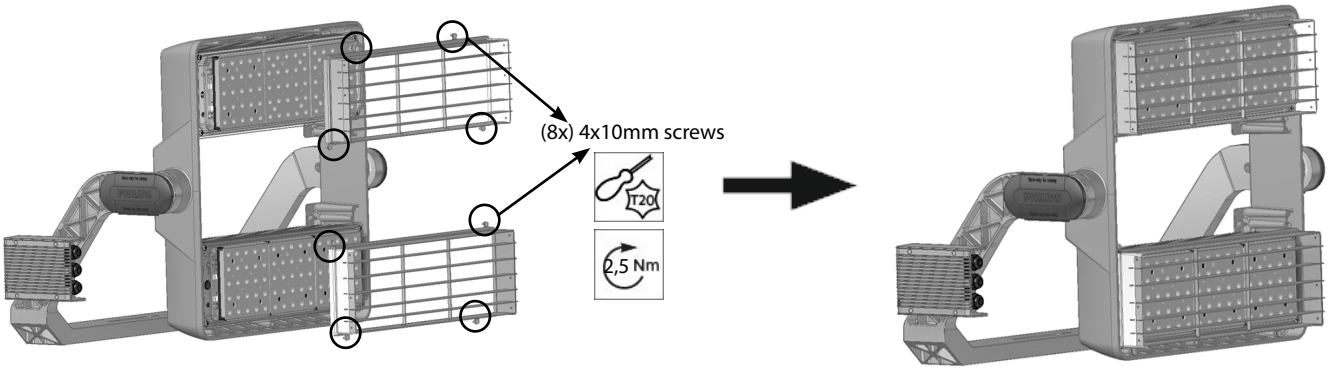
The list is not exhaustive

ACCESORIES

LOUVRE

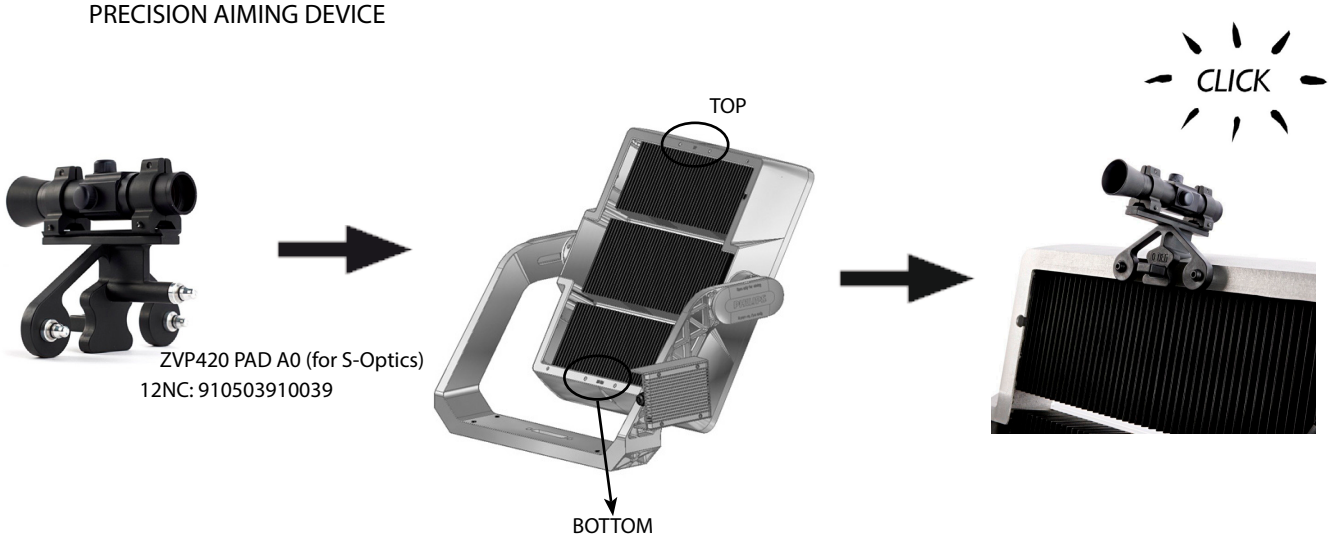


12NC: 912300022588 (ZVP420 L): External spill-light control louvre



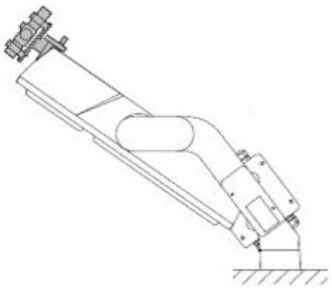
12NC: 912300022989 (ZVP500 L): External spill-light control louvre

PRECISION AIMING DEVICE



ZVP420 PAD A0 (for S-Optics)
12NC: 910503910039



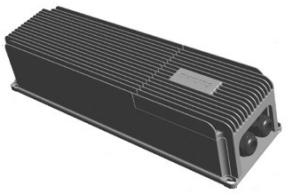


PHILIPS

ArenaVision LED gen2 Driver box

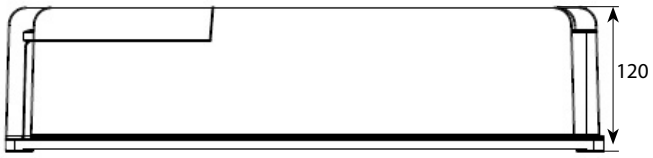
EVP400 DMX

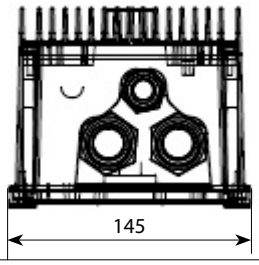
EVP400

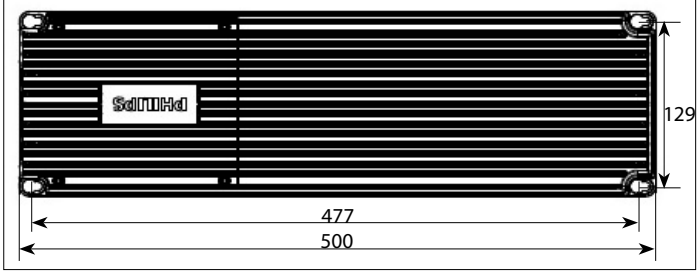


outdoor | indoor | IEC EN60598 | IP66 | IK08 | 220-230V 50-60Hz | 380-400V 50Hz

6,2







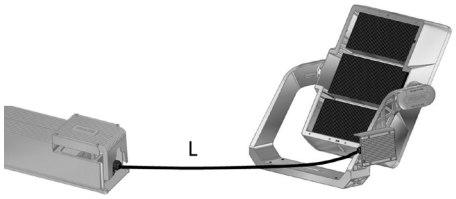
Driver box Features

Iin (Mains 220V-230V)	8A
Iin (Mains 380V-400V)	4.6A
Inrush (220V-230V)	20 A during 160 µs
Inrush (380V-400V)	30 A during 160 µs
Power Factor	> 0.95 at full power
Surge Protection	10kV Com. Mode 6kV Dif. Mode
Maximum Heat Disipation*	75W

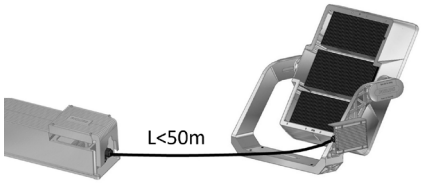
* According to the maximum heat disipation, a thermal study should be done for a cabinet installation

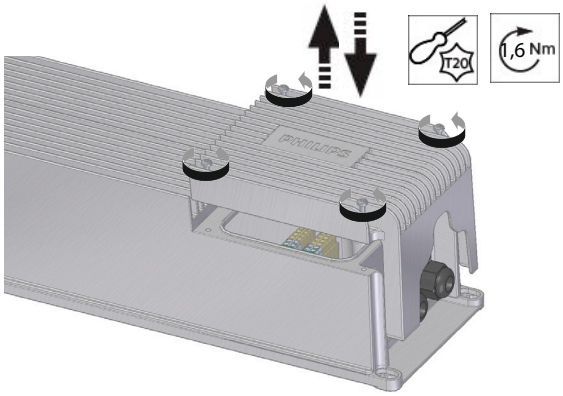
Distances between driver and luminaire

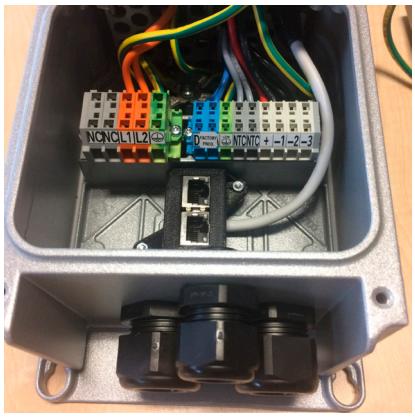
L<50	page 9
50<L<200	page 11

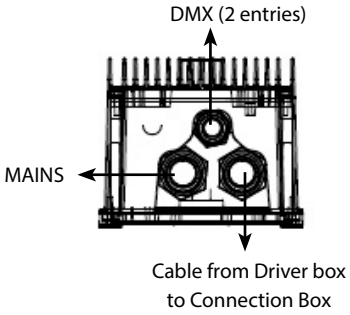


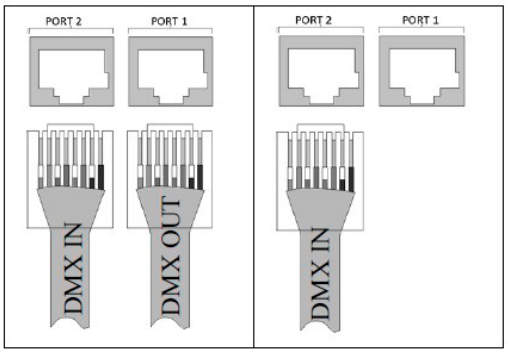
ELECTRICAL CONNECTION L<50m







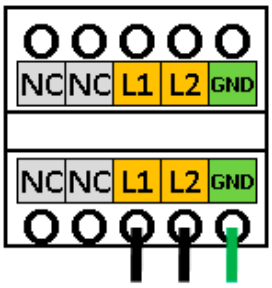






TERMINATOR RJ45 (not supplied by Philips)
For safety reasons the terminator must have isolated housing

MAINS

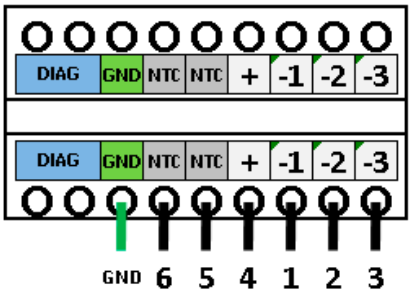


DMX



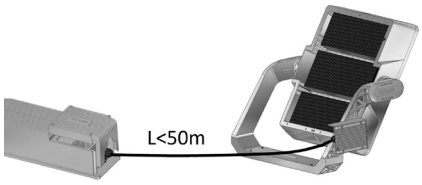
1) Remove plugs only when needed
2) Slip the DMX cable without RJ45 plug through the cable gland
3) Crimp the RJ45 modular plug on the DMX cable inside the driver

CONNECTION BOX



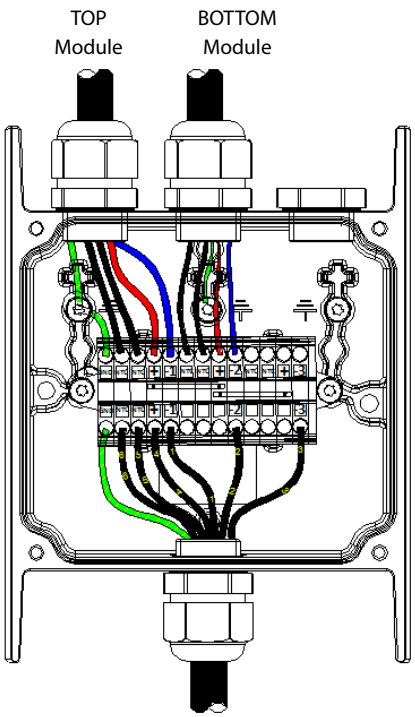
		Ø min	Ø max	TORQUE	MAX VOLTAGE SUPPORTED	RECOMMENDED CABLE TYPE	CONNECTOR SECTION MAX
DMX Cable	M20	2 x Ø6mm +/-1mm	NA	4.5 Nm	1000 V	2x ETHERNET shielded cable CAT5	
MAINS Cable	M25	Ø13	Ø18	8 Nm	1000 V	H07RN-F 450V/750V	4 mm2
Connection Box	M25	Ø13	Ø18	8 Nm	1000 V	H07RN-F 450V/750 or A11VV U-600/1000V	2.5 mm2

WIRING CONNECTION BOX L<50m

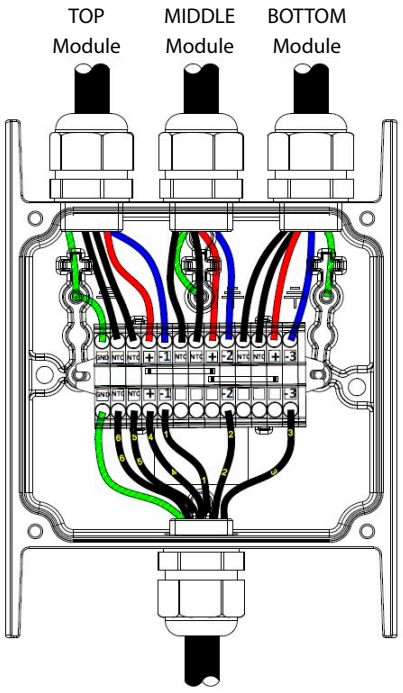


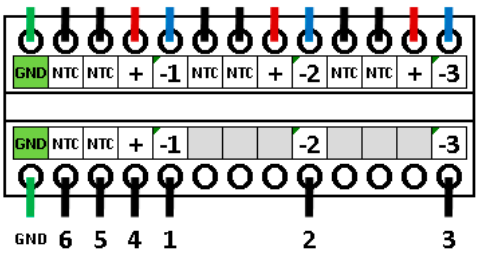


BVP415



BVP425





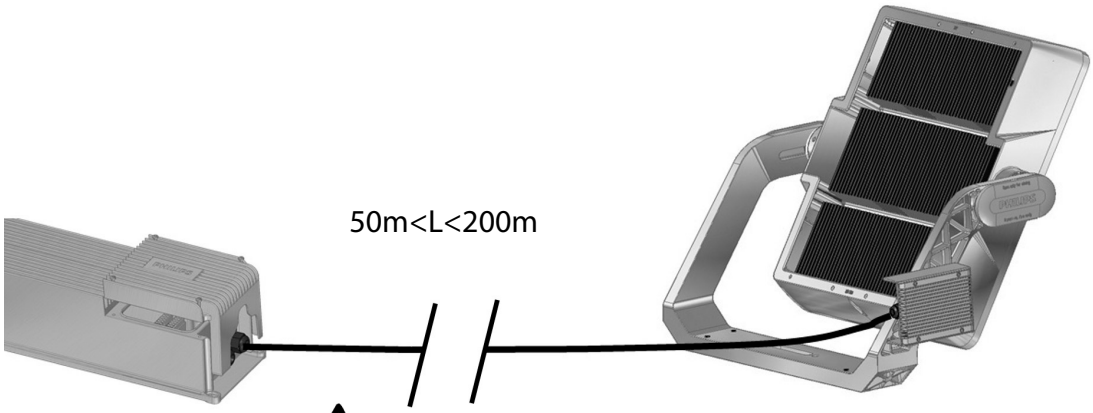
		CABLE DIAMETER RANGE	MAX VOLTAGE SUPPORTED	RECOMMENDED CABLE TYPE
L<25m	7G1.5	Ø13-Ø18	1000 V	H07RN-F 450V/750 or A11VV U-600/1000V
L<50m	7G2.5	Ø13-Ø18	1000 V	H07RN-F 450V/750 or A11VV U-600/1000V
50m<L<200m	8G2.5	Ø13-Ø18	1000 V	H07RN-F 450V/750 or A11VV U-600/1000V

CABLE NOT SUPPLIED BY PHILIPS IN VERSION BV

		Ø min	Ø max	TORQUE
Cables to Modules	M20	Ø10	Ø14	3 Nm
Cable to Driver box	M25	Ø13	Ø18	8 Nm



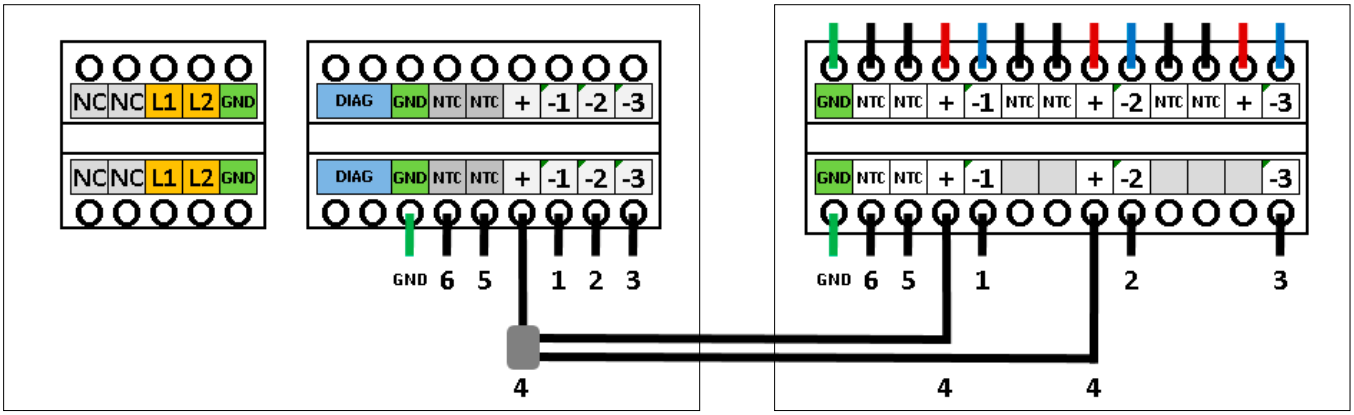
ELECTRICAL CONNECTION 50m<L<200m



CABLE NOT SUPPLIED BY PHILIPS IN VERSION BV
8G2,5 mm2 cable

DRIVER

LUMINARY

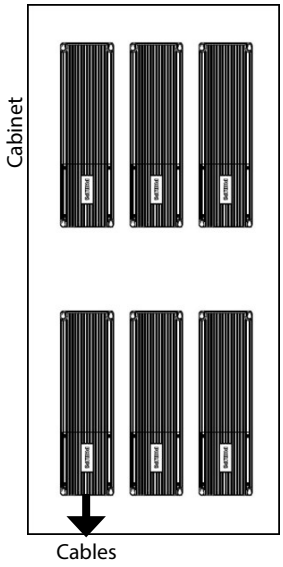


SPLITTER NOT SUPPLIED BY PHILIPS

Installation of drivers boxes on cabinet

ORIENTATION

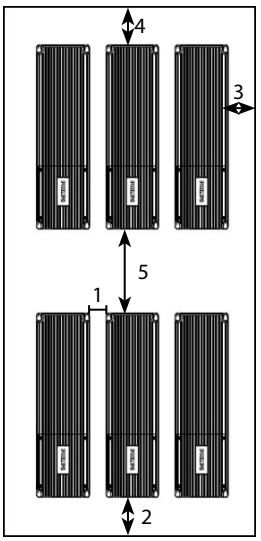
Each driver box in the cabinet has to be in vertical position



DISTANCES

The distances between driver boxes or wall have to be higher than:

Item	Distance
1, 3	Min 50mm
2	Min 80mm
4	Min 150mm
5	Min 200mm

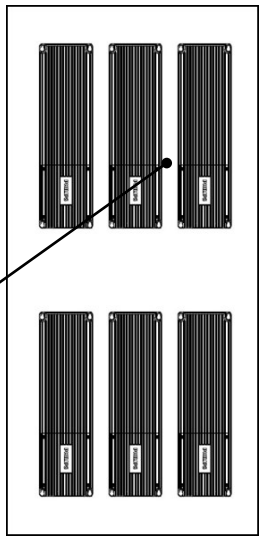


TEMPERATURES

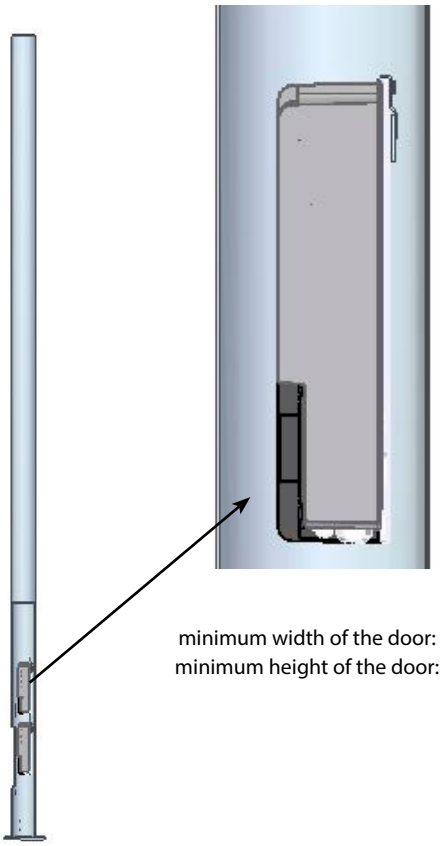
MAXIMUM Relative Humidity:
95% -> Storage & Transport
90% -> Operating (no condensation allowed)

A temperature sensor must be installed inside the cabinet between two driver boxes.
The temperature measured by the sensor has to be lower than 45°C.
We recommend a cabinet protected against solar action.

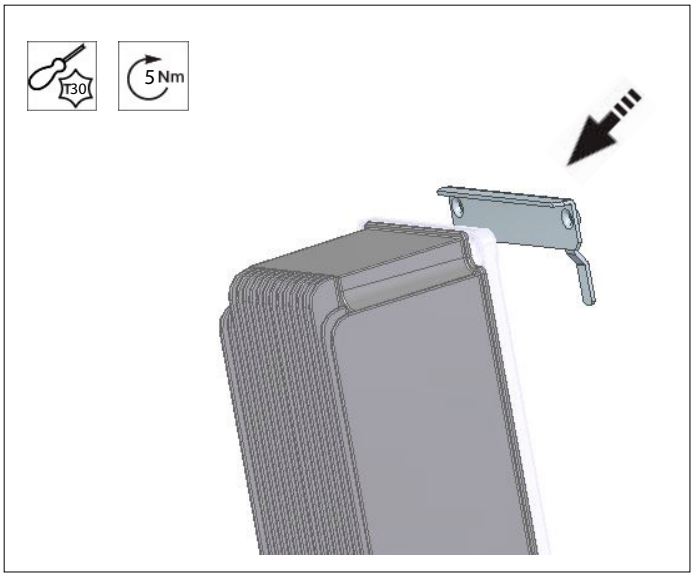
An active cooling can be added in the cabinet to guarantee a maximum temperature of 45°C all along the year



Installation of driver boxes in the mast

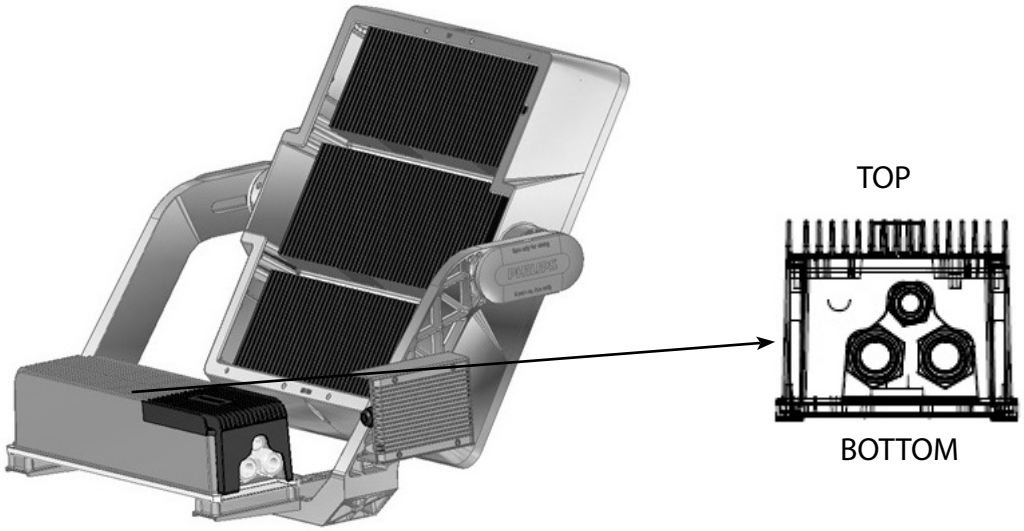


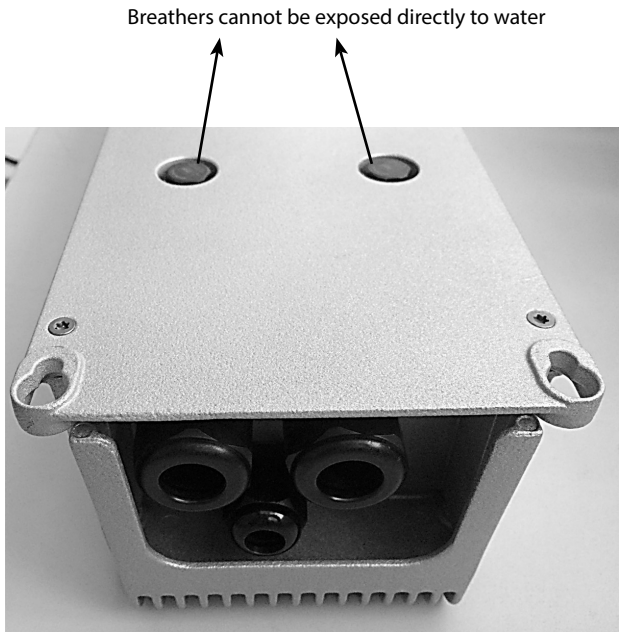
minimum width of the door: 125mm
minimum height of the door: 600mm



Depending of the driver fixation in the mast, please select the most suitable hook.

Installation of driver boxes on the bracket or in horizontal position







Maximum number of luminaires to be connected to standard circuit breakers (fuse)

BVP415	Mains voltage	Max Nr luminaires connected
MCB 16A A type	220V-230V	2
MCB 16A B type	220V-230V	2
MCB 32A A type	220V-230V	5
MCB 32A B type	220V-230V	5
MCB 16A A type	380V-400V	5
MCB 16A B type	380V-400V	5

BVP425	Mains voltage	Max Nr luminaires connected
MCB 16A A type	220V-230V	1
MCB 16A B type	220V-230V	1
MCB 32A A type	220V-230V	3
MCB 32A B type	220V-230V	3
MCB 16A A type	380V-400V	3
MCB 16A B type	380V-400V	3



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