

OPERATING INSTRUCTION
for
DARK LIGHT SERIES

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Attention

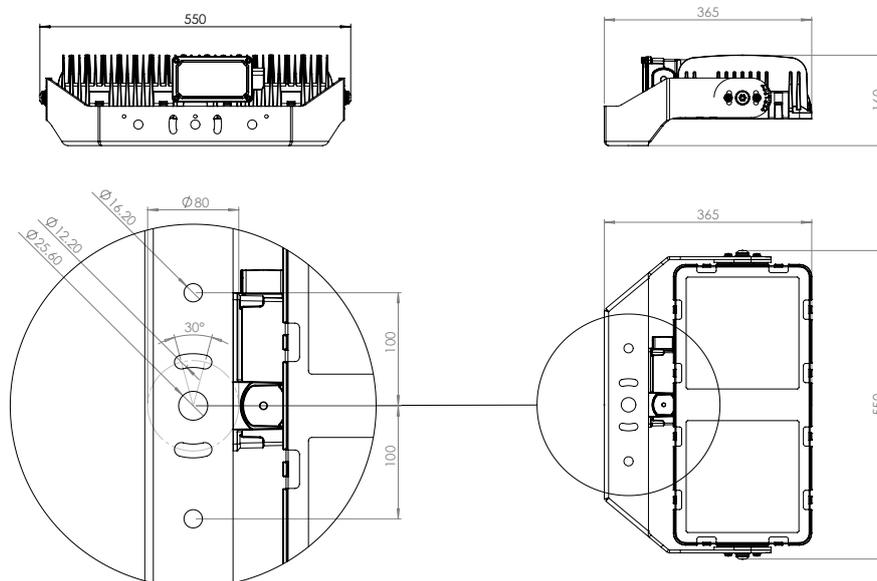
Please read the following instructions carefully to ensure that the installation work is carried out correctly. Keep these instructions safe for future reference.

Safety instructions

1. The safety of the fixture is only guaranteed if it is properly installed and maintained. Also, the product must be used for its intended purpose. If the fixture is modified or used unintentionally, there is a risk of danger to life or fire due to electric shock or short circuit.
2. Before each use, check the lamp or power supply for possible damage. Never use the lamp or power supply if you find any damage anywhere. In case of damage, contact an electrician or the manufacturer's customer service department. If not, there is possible danger to life from electric shock!
3. Do not use the lamp in explosive environments and where flammable liquids, gases or dust are present. Danger to life!
4. Keep the lamp out of the reach of children. Children cannot assess the danger of electric current.
5. Use only the supplied driver and cable to operate the device.
6. Do not look directly into the light source from a short distance.
7. If the light source needs to be replaced, the complete fixture must be replaced by the manufacturer or your supplier.
8. Keep the fixture away from strong electromagnetic radiation sources and provide adequate protection against lightning strikes.
9. The tensile strength of the luminaire fixture must be guaranteed. According to the EN 60598-1 standard, the luminaire must be tested at each suspension point with four times its mass, plus its own weight.
10. Adjustment of the parameters or modification must be carried out only in a voltage-free condition.

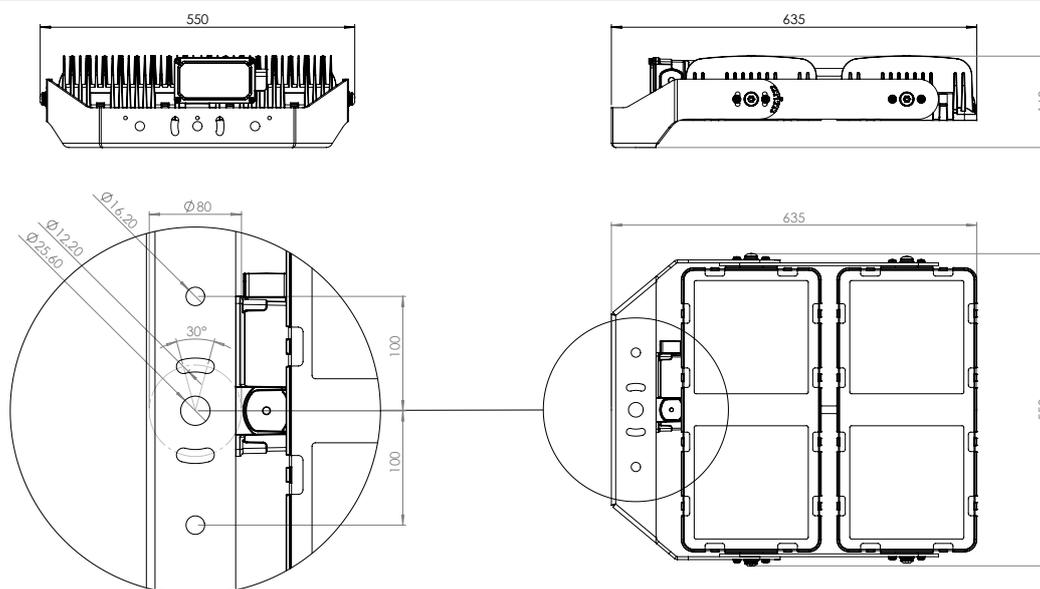
Technical data (Dark Licht ONE)

Brand	DCbright	
Product	DL1-AC-320W-51 DL1-AC-400W-64 DL1-AC-600W-96	
Light source	3-step MacAdam Ellipse LED's	
Expected life span	320W: 400W: 600W:	L80 B10 - 106 564 hrs L80 B10 - 196 013 hrs L80 B10 - 196 030 hrs
Light cut-off angle	S1: S2: S3: S4: S5:	75° 72° 69° 66° 63°
CRI	Standard: Optional:	>70 >80, >90
Operation temp range	-40°C ~ +50°C	
Impact rating	IK07	
Waterproof rating	IP65, IP67	
LED driver	CE, ENEC, UL, CB, FCC	
LED driver safety class	Class I	
Voltage range	320W: 400W: 600W:	90-305Vac / 127-420Vdc 90-305Vac / 127-420Vdc 220-480V ~ 50/60Hz
Lamp weight	320W 400W 600W	14.9 kg (internal driver) 15.0 kg (internal driver) 13.9 kg (external driver)
Driver weight	Box 600W Tray 600W	9.1 kg 5.1 kg



Technical data (Dark Light TWO)

Brand	DCbright	
Product	DL2-AC-800W-128 DL2-AC-1200W-192	
Light source	3-step MacAdam Ellipse LED's	
Expected life span	800W: 1200W:	L80 B10 - 196 013 hrs L80 B10 - 196 030 hrs
Light cut-off angle	S1: S2: S3: S4: S5:	75° 72° 69° 66° 63°
CRI	Standard: Optional:	>70 >80, >90
Operation temp range	-40°C ~ +50°C	
Impact rating	IK07	
Waterproof rating	IP65, IP67	
LED driver	CE, ENEC, UL, CB, FCC	
LED driver safety class	Class I	
Voltage range	800W: 1200W:	220-480V ~ 50/60Hz 220-480V ~ 50/60Hz
Lamp weight	800W 1200W	24.5 kg (external driver) 25.4 kg (external driver)
Driver weight	Box 800W Tray 800W Box 1200W Tray 1200W	9.1 kg 5.4 kg 11.3 kg 7.8 kg

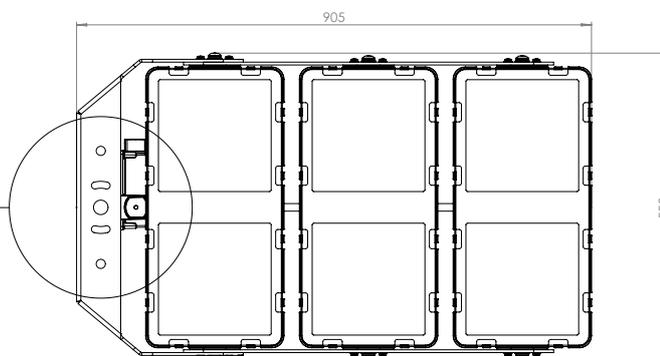
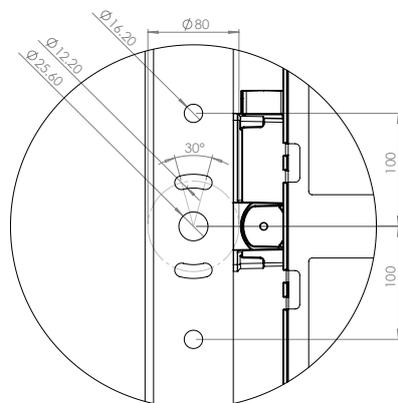
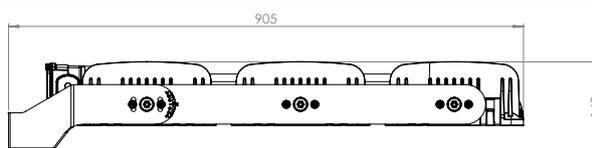
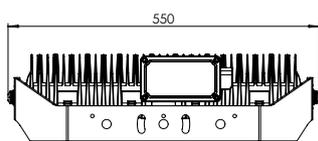


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Technical data (Dark Light THREE)

Brand	DCbright	
Product	DL3-AC-1800W-288	
Light source	3-step MacAdam Ellipse LED's	
Expected life span	1800W:	L80 B10 - 196 030 hrs
Light cut-off angle	S1: S2: S3: S4: S5:	75° 72° 69° 66° 63°
CRI	Standard: Optional:	>70 >80, >90
Operation temp range	-40°C ~ +50°C	
Impact rating	IK07	
Waterproof rating	IP65, IP67	
LED driver	CE, ENEC, UL, CB, FCC	
LED driver safety class	Class I	
Voltage range	1800W:	220-480Vac ~ 50/60Hz
Lamp weight	1800W	33.5 kg (external driver)
Driver weight	Box 1800W Tray 1800W	13.8 kg 10.4 kg



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Technical data (product code)

Model encoding system for Dark Licht product series

1. Product	2. Bracket	3. Light temp	4. CRI	5. Driver	6. Light setting
DL1-AC-320W-51 ¹	In (industrial)	22 (2200k)	70 (>70)	I (internal driver) ¹	S1 (setting 1)
DL1-AC-400W-64 ¹	Ar (Architectural)	27 (2700k)	80 (>80)	B (driver on back) ²	S2 (setting 2)
DL1-AC-600W-96 ²		40 (4000k)	90 (>90)	R (remote driver) ²	S3 (setting 3)
DL2-AC-800W-128 ²		50 (5000k)		P (internal pole driver) ²	S4 (setting 4)
DL2-AC-1200W-192 ²					S5 (setting 5)
DL3-AC-1800W-288 ²					

Product code is created by using categories in the following order: 1 | 2-3-4-5 | 6

For example: DL1-AC-600W-96 | In-50-70-R | S2

¹ Standard equipped with Driver option: "I (internal driver)". Driver options: B, R and P are available on request.

² Can only be equipped with "B (driver on Back)", "R (remote driver) and (P (internal pole driver)).

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Technical data (industrial series)	
Dark Licht ONE (DL1-AC-320-51 & DL1-AC-400-64)	
	Luminaire with 6 reflectors Version with internal driver Titanium gray housing
Dark Licht ONE (DL1-AC-600-96)	
	Luminaire with 8 reflectors Version with external driver box/tray Titanium gray housing
	Luminaire with 8 reflectors Version with bracket mounted driver box Titanium gray housing
Dark Licht TWO (DL2-AC-800-128)	
	Luminaire with 12 reflectors Version with external driver box/tray Titanium gray housing
	Luminaire with 12 reflectors Version with bracket mounted driver box Titanium gray housing
Dark Licht TWO (DL2-AC-1200-192)	
	Luminaire with 16 reflectors Version with external driver box/tray Titanium gray housing
	Luminaire with 16 reflectors Version with bracket mounted driver box Titanium gray housing
Dark Licht THREE (DL3-AC-1800-288)	
	Luminaire with 24 reflectors Version with bracket mounted driver box Titanium gray housing
	Luminaire with 24 reflectors Version with bracket mounted driver box Titanium gray housing

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Technical data (architectural series)	
Dark Licht ONE (DL1-AC-320-51 & DL1-AC-400-64)	
	Luminaire with 6 reflectors Version with internal driver Titanium gray housing
Dark Licht ONE (DL1-AC-600-96)	
	Luminaire with 8 reflectors Version with external driver box/tray Titanium gray housing
	Luminaire with 8 reflectors Version with bracket mounted driver box Titanium gray housing
Dark Licht TWO (DL2-AC-800-128)	
	Luminaire with 12 reflectors Version with external driver box/tray Titanium gray housing
	Luminaire with 12 reflectors Version with bracket mounted driver box Titanium gray housing
Dark Licht TWO (DL2-AC-1200-192)	
	Luminaire with 16 reflectors Version with external driver box/tray Titanium gray housing
	Luminaire with 16 reflectors Version with bracket mounted driver box Titanium gray housing
Dark Licht THREE (DL3-AC-1800-288)	
	Luminaire with 24 reflectors Version with bracket mounted driver box Titanium gray housing
	Luminaire with 24 reflectors Version with bracket mounted driver box Titanium gray housing

Technical data (product details)

Electrical junction box of Darklicht fixture with cable gland and push-in terminals for electrical connection to driver box, driver tray or in the case of internal driver box to 3 core power cable.

Adjusting bolts to adjust the tilt angle of the Darklight fixture.



Driver types per luminaire

Dark Licht driver box

Dark Licht driver tray



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Installation - scope of supply

Check whether the contents of the package are complete.

Contents:

1x Dark Licht fixture as specified
 1x Instruction manual
 1x Cable entry open-end wrench
 1x Stainless steel (304) flexible tube

Shrinking tube
 Vulcanizing tape (3M J20)

Installation - general notes

1. Assembly, installation, and maintenance may only be performed by qualified persons.
2. Before installing or replacing the fixture, ensure that the power supply is turned off to prevent accidents.
3. Prior and during installation, closely follow the instructions provided in this manual.
4. Before installing a luminaire, the load-bearing capacity of the lamppost or other installation location and the fixing elements must be ensured. If these values are unknown, have this calculated and/or checked by a certified company.
5. Electrical connection must be carried out in accordance with all applicable standards and directives.
6. The fixture can only be used within the specified voltage range.
7. Recommended cable: Supply cord: EPDM H07RN-F 3G1.5mm² · Dim cord: Dcbright H07BQ-F 4G0.5mm²
8. Make sure that the corresponding IP class is met when connecting the luminaire. For the Dark Licht fixture this is IP67
9. Disassembly, assembly and adjustment of the luminaire should only be carried out with the power switched off.
10. Ensure proper sealing by adding shrink tubing and vulcanizing tape around the cable glands, providing a secure and watertight connection.
11. Position the luminaire in such a way that it prevents prolonged staring from a distance less than 11.688m into the luminaire.
12. The luminaire is designed to be suitable for both indoor and outdoor use.
13. The distance between the luminaire and a radio should be at least one meter to avoid possible interference with the radio reception.
14. Fixtures that are attached to a moving object must be secured with a safety cord or chain.
15. Make sure the fixture is not exposed to heat sources beyond the specified operating temperature and vibration and avoid contact with corrosive chemicals
16. The luminaire must not be covered or wrapped with insulating material. Because the maximum operating temperature around the luminaire can lead to temperatures of 70°C, a minimum distance of 75mm must be maintained between the luminaire and thermal insulation materials and components. Direct ceiling mounting is therefore excluded.
17. Never remove the glass plate or other parts of the fixture yourself.
18. The fixture must not be used if the housing is damaged or broken. Parts that have broken must be replaced immediately. Do not switch on power as long as the fixture is damaged or broken. If damage has occurred to the luminaire, please contact your supplier immediately
19. Commissioning and storage must be within the rated temperature range
20. In order to prevent light nuisance and to guarantee proper functioning of the full-cut-off reflectors, the luminaire must always be installed
21. in accordance with the pre-made lighting plan; For this reason, it is not recommended to tilt the fixture more than 15 degrees in a permanent installation
22. Never attempt to repair the fixture yourself; repairs must be conducted by the manufacturer or a designated company.
23. Maximum mounting height: 50 meter - Maximum elevation height: none

Effective Projected Area (EPA) - Wind Rating Specifications (per product)							
		Tilt Angle	0°	5°	10°	15°	20°
DL3							
		Front Surface	75400mm ²	104000mm ²	130000mm ²	158600mm ²	182000mm ²
Cd	1.22	Side Surface	94875mm ²				
DL2							
		Front Surface	75400mm ²	91000mm ²	106600mm ²	122200mm ²	135200mm ²
Cd	1.22	Side Surface	63825mm ²				
DL1							
		Front Surface	75400mm ²	78000mm ²	83200mm ²	85800mm ²	88400mm ²
Cd	1.22	Side Surface	32775mm ²				
DL2 + Driver							
		Front Surface	75400mm ²	91000mm ²	106600mm ²	122200mm ²	135200mm ²
Cd	1.23	Side Surface	104325mm ²				
DL1 + Driver							
		Front Surface	75400mm ²	78000mm ²	83200mm ²	85800mm ²	88400mm ²
Cd	1.23	Side Surface	73275mm ²				

Installation - installation instructions



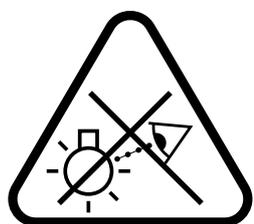
WARNING - DANGER

Make sure that the power supply is switched off before connecting the LED fixture.



WARNING - DANGER

Installation of the LED fixtures may only be carried out by authorized persons with sufficient knowledge.

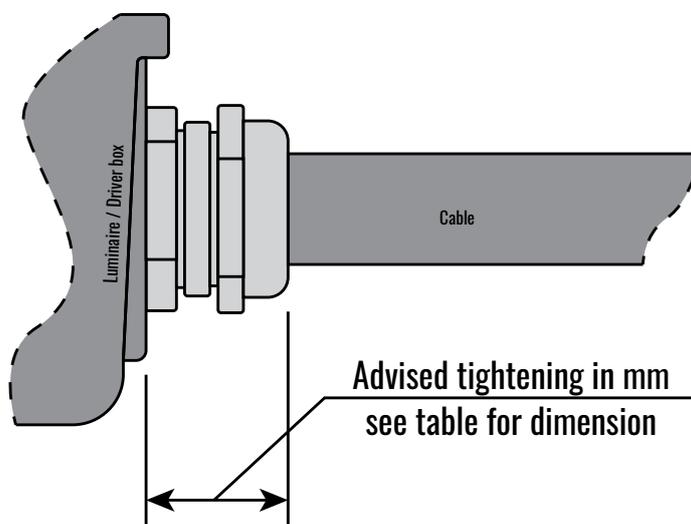


WARNING - DANGER

Do not stare at the operating light source.

1. To determine the correct angle of adjustment of the luminaire, follow the instructions of the lighting plan and/or the supplier. Before installation, always check that the installation site is completely level.
2. Only install the fixtures at mounting locations that have been pre-approved or inspected by a certified company.
3. It is recommended to start installation as close to the power point as possible.
4. The weight of the connecting cable must not load the luminaire.
5. To protect the light module and to avoid the risk of injury, gloves should be worn during assembly and installation.
6. The drivers, driver box or driver tray and other components must be properly grounded. For example by means of an earth claw or a pre-installed earth cable.
7. Check that the degree angle is set correctly before tightening the bolts
8. Check that all bolts and cable glands are properly tightened. see tables: "Cable gland - Advised tightening in mm" and "Bolt - tightening information" below
9. After installation, the point furthest from the grounding installation should be professionally checked in accordance with local law.

Cable gland - Advised tightening in mm



Cable gland type :	M12*1.5-D-SI 4-8mm	M20*1.5-2H 4-8mm	M20*1.5-H 5-10mm	M20*1.5 6-12mm	M20*1.5-D 8-14mm
Dcbright H07BQ-F 4G0.5mm ² (Ø6.7mm)	+/-17.7mm	+/-19.8mm	X	X	X
Dcbright H07BQ-F 2G2mm ² (Ø7.3mm)	+/-18.4mm	+/-19.9mm	X	X	X
Dcbright H07BQ-F 2G1.5 + 2G0.5mm ² (Ø8mm)	+/-18.9mm	+/-20mm	+/-20.4mm	X	X
Dcbright H07BQ-F 4G1.5 + 2G0.5mm ² (Ø10.4mm)	X	X	+/-21.3mm	+/-22.2mm	X
Dcbright H07BQ-F 6G1.5 + 2G0.5mm ² (Ø13.6mm)	X	X	X	X	+/-20.8mm
Dcbright H07BQ-F 2G2.5 + 2G0.5mm ² (Ø9.5mm)	X	X	+/-21.1mm	X	X
Dcbright H07BQ-F 4G2.5 + 2G0.5mm ² (Ø12.3mm)	X	X	X	X	+/-21mm
Dcbright H07BQ-F 6G2.5 + 2G0.5mm ² (Ø13.8mm)	X	X	X	X	+/-21.1mm
Dcbright SiHF-08 2x1mm ² (Ø7.9mm)	+/-18.9mm	+/-20mm	X	X	X
Dcbright SiHF-08 2x2.5mm ² +2x0.5mm ² (Ø10.7mm)	X	X	+/-21.3mm	X	X
EPDM H07RN-F 3G1.5mm ² (Ø10mm)	X	X	+/-21.3mm	X	X

GREEN = allowed | ORANGE = not recommended but possible | RED = not allowed

Bolt - tightening information

Bolts on luminaire	M8	20N
	M16	175N
Bolts on bracket (8.8 rated)	M20	341N
	M24	590N
Bolts on bracket (12.9 rated)	M20	576N
	M24	995N

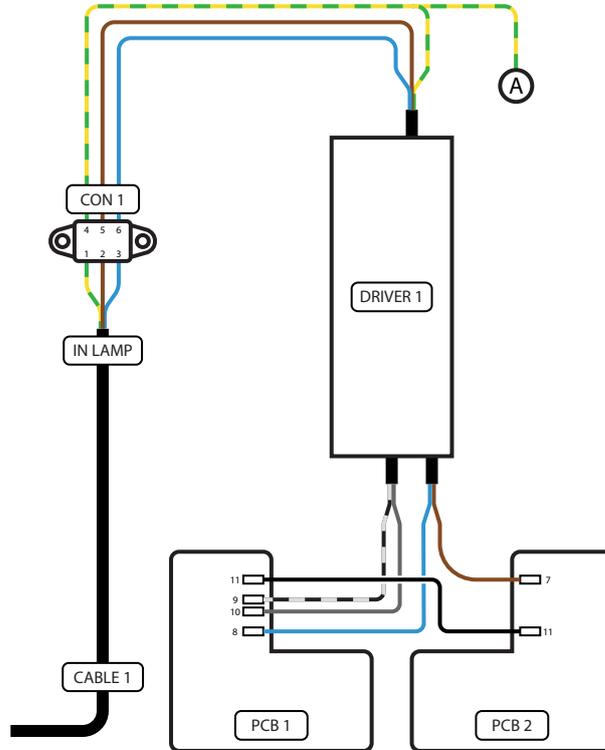
Installation - installation instructions

Cable connection labeling

<p>Input Voltage 220 - 480 Vac</p>	<p>Connection - DR1-AC-600-1200-1800</p>
	<p>Connection - DR3-AC-1800+DIM</p>
	<p>Connection - DR3-AC-1800</p>
	<p>Connection - DR2-AC-1200+DIM</p>
	<p>Connection - DR2-AC-1200</p>
	<p>Connection - DR1-AC-600+DIM</p>
	<p>Connection - DR1-AC-600</p>
	<p>Connection - DR1-AC-400</p>
	<p>Connection - DR1-AC-320</p>

Installation - electrical schematic

Dark Licht ONE



DL1-AC-320W-51

1 GREEN YELLOW	INCOMING CABLE TO CON 1	EARTH
2 BROWN	INCOMING CABLE TO CON 1	PHASE NEUTRAL
3 BLUE	INCOMING CABLE TO CON 1	EARTH
4 GREEN YELLOW	CON 1 TO DRIVER 1 AND 2	PHASE
5 BROWN	CON 1 TO DRIVER 1 AND 2	PHASE NEUTRAL
6 BLUE	CON 1 TO DRIVER 1 AND 2	PHASE NEUTRAL
7 BROWN	DRIVER 1 TO PCB 1	DRI OUT +
8 BLUE	DRIVER 1 TO PCB 2	DRI OUT -
9 BLACK WHITE	DRIVER 1 TO PCB 1	TEMP +
10 GREY	DRIVER 1 TO PCB 1	TEMP -
11 BLACK	CONNECT PCB 1 TO PCB 2	BRIDGE CABLE

A | CONNECT CON 1 (INCOMING EARTH CABLE) TO LUMINAIRE HOUSING

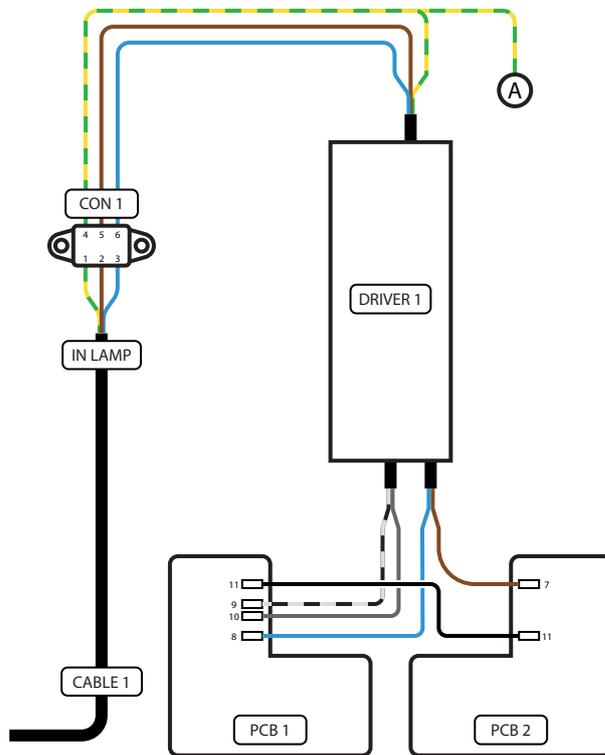
CABLE 1 | INCOMING CABLE TO CON 1

DRIVER 1 | 320W DRIVER IN LUMINAIRE 1

PCB 1 | IN LUMINAIRE 1

PCB 2 | IN LUMINAIRE 1

CON 1 | INSIDE LUMINAIRE 1



DL1-AC-400W-64

1 GREEN YELLOW	INCOMING CABLE TO CON 1	EARTH
2 BROWN	INCOMING CABLE TO CON 1	PHASE NEUTRAL
3 BLUE	INCOMING CABLE TO CON 1	EARTH
4 GREEN YELLOW	CON 1 TO DRIVER 1 AND 2	PHASE
5 BROWN	CON 1 TO DRIVER 1 AND 2	PHASE NEUTRAL
6 BLUE	CON 1 TO DRIVER 1 AND 2	PHASE NEUTRAL
7 BROWN	DRIVER 1 TO PCB 1	DRI OUT +
8 BLUE	DRIVER 1 TO PCB 2	DRI OUT -
9 BLACK WHITE	DRIVER 1 TO PCB 1	TEMP +
10 GREY	DRIVER 1 TO PCB 1	TEMP -
11 BLACK	CONNECT PCB 1 TO PCB 2	BRIDGE CABLE

A | CONNECT CON 1 (INCOMING EARTH CABLE) TO LUMINAIRE HOUSING

CABLE 1 | INCOMING CABLE TO CON 1

DRIVER 1 | 400W DRIVER IN LUMINAIRE 1

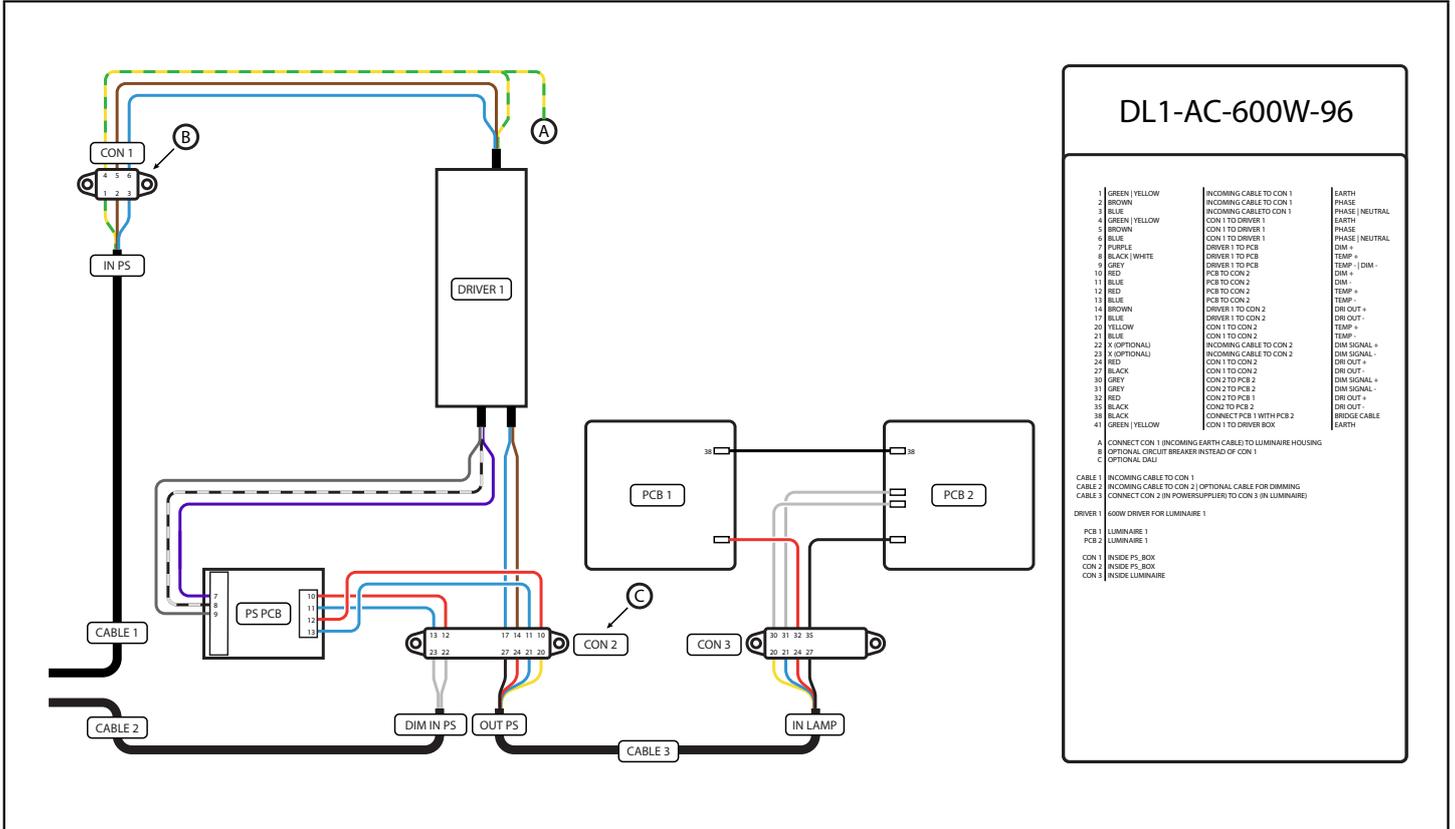
PCB 1 | IN LUMINAIRE 1

PCB 2 | IN LUMINAIRE 1

CON 1 | INSIDE LUMINAIRE 1

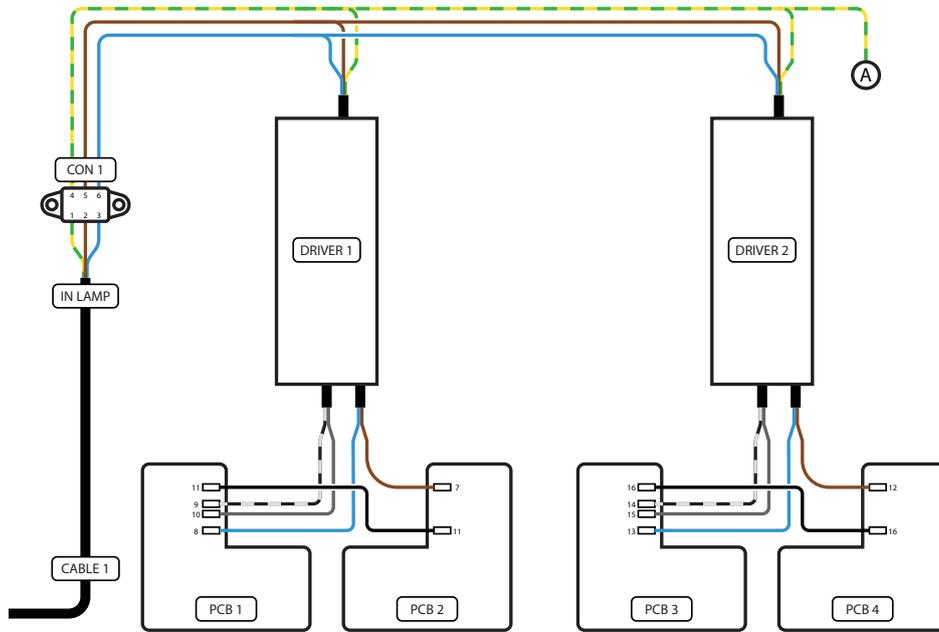
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Installation - electrical schematic

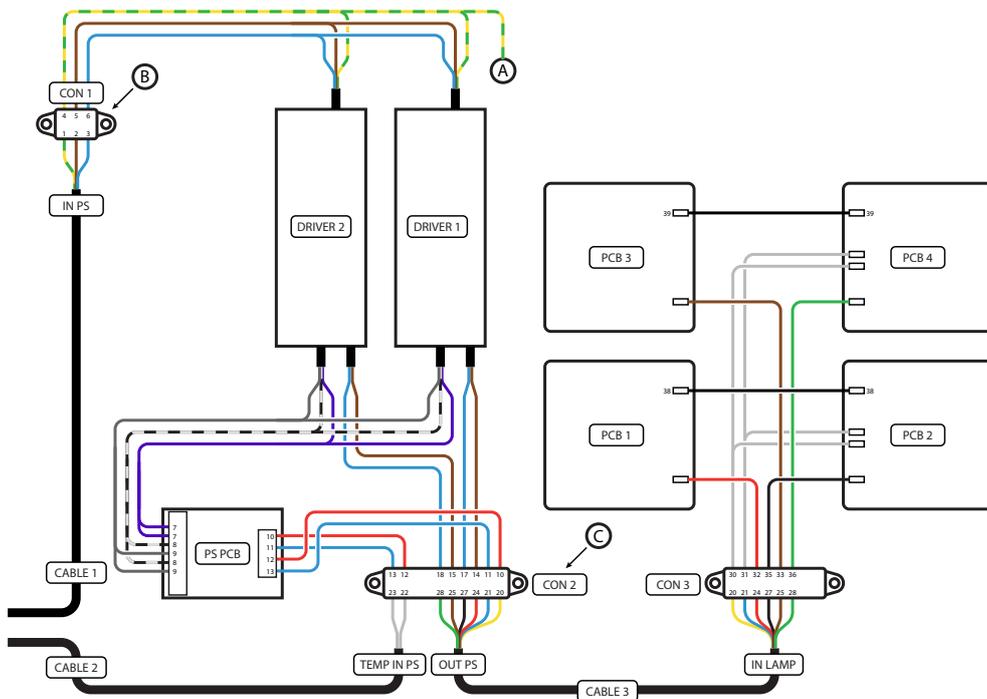
Dark Light TWO



DL2-AC-800W-128

1 GREEN YELLOW	INCOMING CABLE TO CON 1	EARTH
2 BROWN	INCOMING CABLE TO CON 1	PHASE
3 BLUE	INCOMING CABLE TO CON 1	PHASE NEUTRAL
4 GREEN YELLOW	CON 1 TO DRIVER 1 AND 2	EARTH
5 BROWN	CON 1 TO DRIVER 1 AND 2	PHASE
6 BLUE	CON 1 TO DRIVER 1 AND 2	PHASE NEUTRAL
7 BROWN	DRIVER 1 TO PCB 1	DRI OUT +
8 BLUE	DRIVER 1 TO PCB 2	DRI OUT -
9 BLACK WHITE	DRIVER 1 TO PCB 1	TEMP +
10 GREY	DRIVER 1 TO PCB 1	TEMP -
11 BLACK	CONNECT PCB 1 TO PCB 2	BRIDGE CABLE
12 BROWN	DRIVER 2 TO PCB 3	DRI OUT +
13 BLUE	DRIVER 2 TO PCB 4	DRI OUT -
14 BLACK WHITE	DRIVER 2 TO PCB 3	TEMP +
15 GREY	DRIVER 2 TO PCB 3	TEMP -
16 BLACK	CONNECT PCB 3 TO PCB 4	BRIDGE CABLE

- A CONNECT CON 1 (INCOMING EARTH CABLE) TO LUMINAIRE HOUSING
- CABLE 1 INCOMING CABLE TO CON 1
 DRIVER 1 400W DRIVER IN LUMINAIRE 1
 DRIVER 2 400W DRIVER IN LUMINAIRE 2
- PCB 1 IN LUMINAIRE 1
 PCB 2 IN LUMINAIRE 1
 PCB 3 IN LUMINAIRE 2
 PCB 4 IN LUMINAIRE 2
- CON 1 INSIDE LUMINAIRE 1



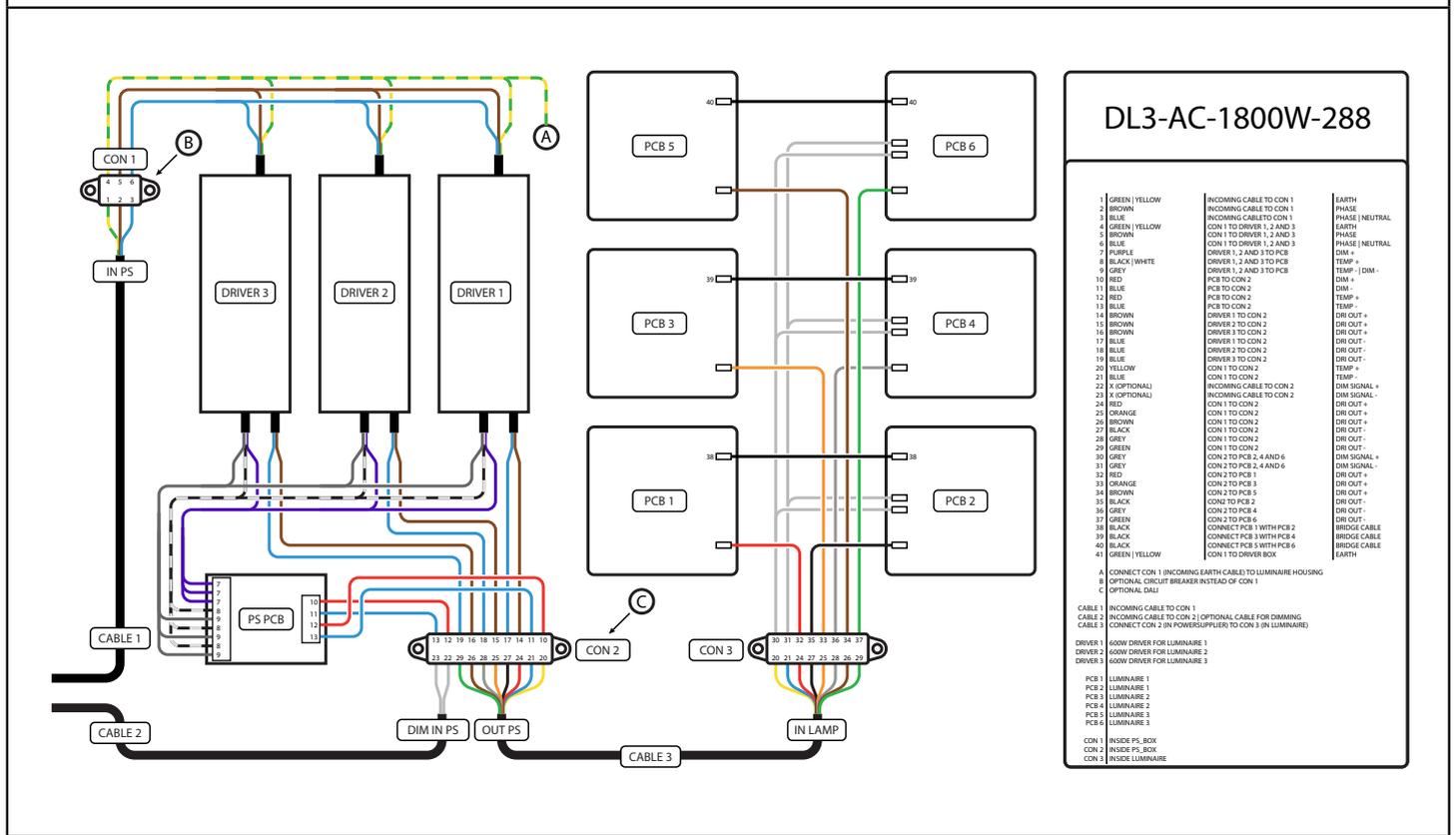
DL2-AC-1200W-192

1 GREEN YELLOW	INCOMING CABLE TO CON 1	EARTH
2 BROWN	INCOMING CABLE TO CON 1	PHASE
3 BLUE	INCOMING CABLE TO CON 1	PHASE NEUTRAL
4 GREEN YELLOW	CON 1 TO DRIVER 1 AND 2	EARTH
5 BROWN	CON 1 TO DRIVER 1 AND 2	PHASE
6 BLUE	CON 1 TO DRIVER 1 AND 2	PHASE NEUTRAL
7 PURPLE	DRIVER 1 AND 2 TO PCB	DM +
8 BLACK WHITE	DRIVER 1 AND 2 TO PCB	TEMP - (DIM -)
9 GREY	PCB TO CON 2	DM +
10 RED	PCB TO CON 2	TEMP +
11 BLUE	PCB TO CON 2	DM -
12 RED	PCB TO CON 2	TEMP -
13 BLUE	DRIVER 1 TO CON 2	DRI OUT +
14 BROWN	DRIVER 1 TO CON 2	DRI OUT +
15 BLUE	DRIVER 1 TO CON 2	DRI OUT -
16 BLUE	DRIVER 2 TO CON 2	DRI OUT -
17 BLUE	DRIVER 2 TO CON 2	TEMP +
18 BLUE	DRIVER 2 TO CON 2	TEMP -
19 YELLOW	CON 1 TO CON 2	DM SIGNAL +
21 BLUE	CON 1 TO CON 2	DM SIGNAL -
22 X (OPTIONAL)	CON 1 TO CON 2	DRI OUT +
23 X (OPTIONAL)	CON 1 TO CON 2	DRI OUT +
24 RED	CON 1 TO CON 2	DRI OUT -
25 BROWN	CON 1 TO CON 2	DM SIGNAL +
27 BLACK	CON 1 TO CON 2	DM SIGNAL -
28 GREEN	CON 2 TO PCB 2 AND 4	DRI OUT +
30 GREY	CON 2 TO PCB 2 AND 4	DRI OUT -
31 GREY	CON 2 TO PCB 2 AND 4	DM SIGNAL +
32 RED	CON 2 TO PCB 1	DRI OUT +
33 BROWN	CON 2 TO PCB 3	DRI OUT +
35 BLACK	CON 2 TO PCB 2	DRI OUT -
36 GREEN	CON 2 TO PCB 4	DRI OUT -
38 BLACK	CONNECT PCB 1 WITH PCB 2	BRIDGE CABLE
39 BLACK	CONNECT PCB 3 WITH PCB 4	BRIDGE CABLE
41 GREEN YELLOW	CON 1 TO DRIVER BOX	EARTH

- A CONNECT CON 1 (INCOMING EARTH CABLE) TO LUMINAIRE HOUSING
 B OPTIONAL CIRCUIT BREAKER INSTEAD OF CON 1
 C OPTIONAL DIM
- CABLE 1 INCOMING CABLE TO CON 1
 CABLE 2 OPTIONAL CABLE FOR DIMMING
 CABLE 3 CONNECT CON 2 (IN POWERSUPPLIER) TO CON 3 (IN LUMINAIRE)
- DRIVER 1 600W DRIVER FOR LUMINAIRE 1
 DRIVER 2 600W DRIVER FOR LUMINAIRE 2
- PCB 1 LUMINAIRE 1
 PCB 2 LUMINAIRE 1
 PCB 3 LUMINAIRE 2
 PCB 4 LUMINAIRE 2
- CON 1 INSIDE PS_BOX
 CON 2 INSIDE PS_BOX
 CON 3 INSIDE LUMINAIRE

Installation - electrical schematic

Dark Light THREE



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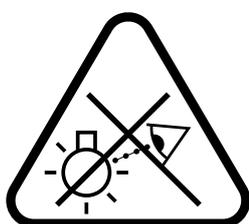
Maintenance



WARNING - DANGER

When performing maintenance work, disconnect the voltage from the LED fixture before starting the work.

General warning



WARNING - DANGER

Do not stare at the operating light source.

Cleaning

Do not use solvents, caustic cleaners or similar agents. Use only a dry or slightly damp cloth to clean the lamp. Clean the glass plate, bolts and housing. Always keep the space between the cooling fins on the back of the fixture free, if dirt accumulates between these cooling fins it should be cleaned as soon as possible. With intensive use and for proper maintenance of the product, this cleaning should take place once a year.

Waste disposal



Dispose of electrical appliances in an environmentally friendly way! Electrical devices do not belong in household waste! According to European Directive 2012/19/EU on waste electrical and electronic equipment, electrical equipment must be collected separately and disposed of in an environmentally friendly recycling facility. You can obtain information about the disposal of waste equipment from your municipality or city administration.