PHILIPS

GreenSpace emergency

DN460B, DN461B
DN470B, DN471B
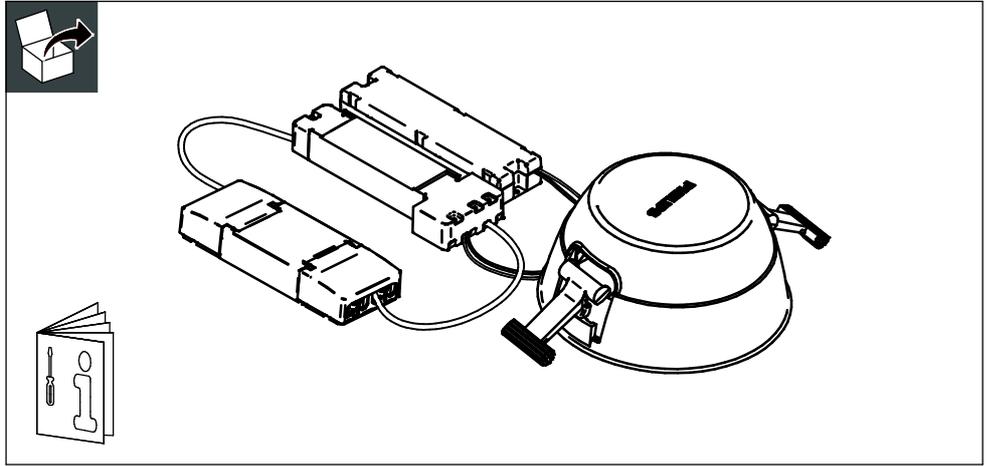
	CE	indoor	220 V 240 V	50 Hz 60 Hz	□	Max. 40 °C Min. 10 °C					⊘ 0,8m	IK02	GLOW WIRE 850 °C

		Color temperature [K]	P_{nom} [W]	P_{max} [W]	kg	ϕ mm	UGR
DN460B	LED11S	830, 840	14	15,4	1,26	150	22
DN461B	LED11S	830, 840	14	15,4	1,26	150	19
DN470B	LED20S	830, 840	21,6	23,8	2,13	200	22
DN471B	LED20S	830, 840	21,6	23,8	2,13	200	19
DN470B	LED30S	830, 840	31,2	34,4	2,13	200	22
DN471B	LED30S	830, 840	31,2	34,4	2,13	200	19

DN460B, DN461B

	x	y	z
PSU-E	157	47	30
PSE-E	200	74	32
PSED-E	200	74	32

DN470B, DN471B

208

74

IP20

73

⌀ 166

IP20

IP44 in case of: GC or PGO accessory

x

y

208

74

90

z

IP20

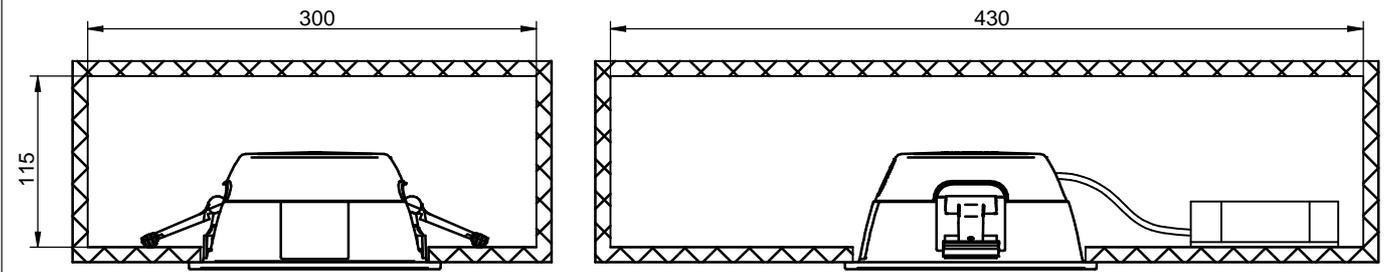⌀ 216

IP20

IP44 in case of: GC or PGO accessory
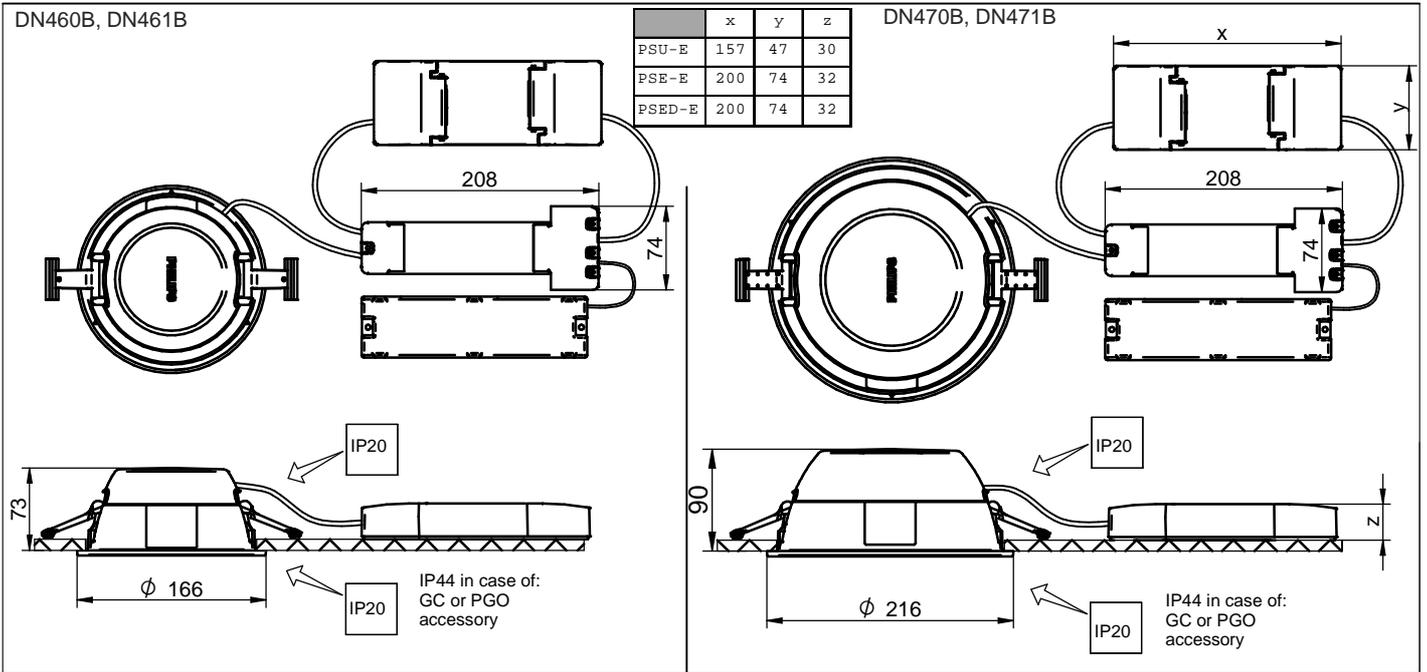
⚠ Luminaire must not cover with any thermally insulating material.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or similar qualified person!

Only with soft clothes! Do not push hard!

Minimal built-in dimensions

300

115

430

1a

∅ see table on 1st page $^{+2}_{0}$

1b

LED indicator with Opal Glass (PGO)
luminaire must be mounted
into the ceiling close
to the luminaire

∅9mm

2a

PZ2

2b

Basic & PRO version

Switched
L

Switched
N

N

L

Mains/DALI
cables

9   20

Min 2x0.5 mm
Max 2x2.5 mm

Cable to
driver

~220-240V

DALI version

Switched
L

Switched
N

N

L

DALI
OUT

DALI
IN

Cable to
driver

Switched
IN

~220-240V

3a

Through wiring option (PSE-E driver,
ELB,ELP - CU3)

Remove cap from the emergency
inverter

Mains cable

9   20

Min 2x0.5 mm ^{2}
Max 2x2.5 mm ^{2}

3b

Driver

Switched
N   L

Switched cable
OUT

Emergency inverter unit

Switched
L   N

Unswitched
L   N

Switched cable
IN

Unswitched cable
OUT

Unswitched cable
IN

~220-240V

Through wiring option (PSED-E driver, ELB,ELP - CU5)

Remove cap from emergency unit

4a

Mains/DALI cable

9 — 20

Min 2x0.5 mm
Max 2x2.5 mm

Driver

DALI IN — Switched N L — DALI cabel OUT — Switched cable OUT

Emergency inverter unit

Switched L N — Unswitched L N — Switched cable IN — Unswicthed cable IN — Unswitched cable OUT — ~220-240V

4b
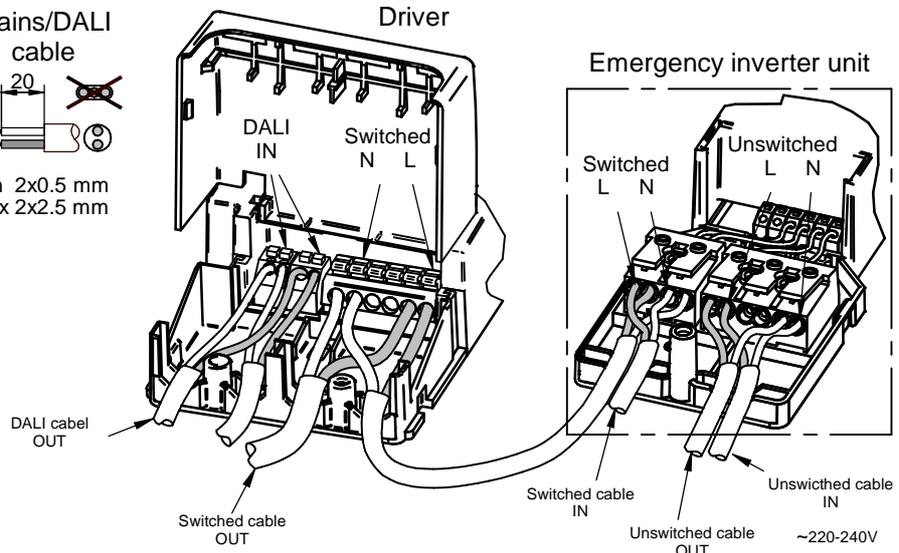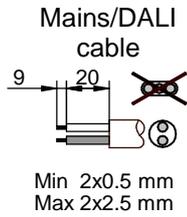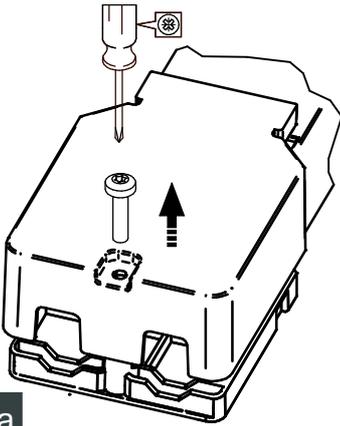
Xitanium 20W/m 0.15-0.5A 54V 230V (PSU-E)		Xitanium 20W WH 0.15-0.5A 54V Is (PSE-E)		Xitanium 36W/m 0.3-1.05A 54V 230V (PSU-E)		Xitanium 36W WH 0.3-1.05A 54V Is (PSE-E)	
Lum. Pack	**Inom. (A)**	**Lum. Pack**	**Inom. (A)**	**Lum. Pack**	**Inom. (A)**	**Lum. Pack**	**Inom. (A)**
LED11S	0,058	LED11S	0,058	LED30S	0,129	LED30S	0,129
LED20S	0,089	LED20S	0,089				
Imax. (A)	18	**Imax. (A)**	15,8	**Imax. (A)**	18	**Imax. (A)**	16
Tref. (ms)	0,25	**Tref. (ms)**	0,224	**Tref. (ms)**	0,25	**Tref. (ms)**	0,216
MCB	**Max. Products (pcs)***	**MCB**	**Max. Products (pcs)***	**MCB**	**Max. Products (pcs)***	**MCB**	**Max. Products (pcs)***
B-10A	21	B-10A	22	B-10A	21	B-10A	22
B-16A	34	B-16A	36	B-16A	34	B-16A	36
C-10A	35	C-10A	37	C-10A	35	C-10A	37
C-16A	57	C-16A	61	C-16A	57	C-16A	61

Inrush current

I mains (A)

I max

max/2

I nom.

Tref

Time (us)
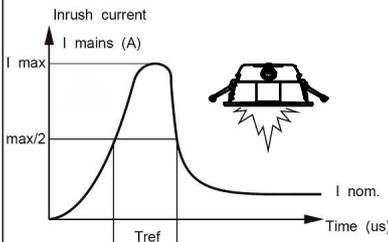
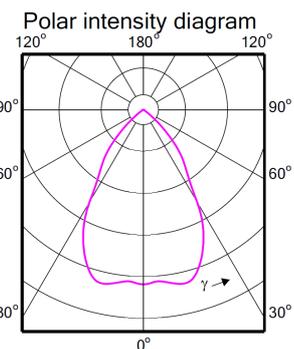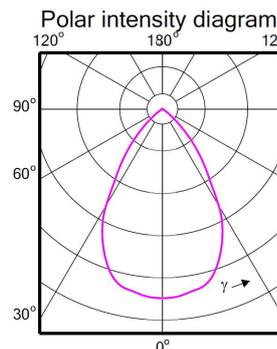| TCI Driver Minijolly LC 20 1-10V TCI Driver JOLLY HV 25 1-10V TCI Driver JOLLY US 32 1-10V (PSE-E D7)		Xitanium 20W WH 0.15-0.5A 54V TD/Is CL 230V (PSED-E, PSED-VLC-E)		Xitanium 36W WH 0.3-1A 54V TD/Is CL 230V (PSED-E, PSED-VLC-E)	
Lum. Pack	**Inom. (A)**	**Lum. Pack**	**Inom. (A)**	**Lum. Pack**	**Inom. (A)**
LED11S	0,058	LED11S	0,058	LED30S	0,129
LED20S	0,089	LED20S	0,089		
LED30S	0,129				
Imax. (A)	5	**Imax. (A)**	20,4	**Imax. (A)**	20,4
Tref. (ms)	0,05	**Tref. (ms)**	0,195	**Tref. (ms)**	0,195
MCB	**Max. Products (pcs)***	**MCB**	**Max. Products (pcs)***	**MCB**	**Max. Products (pcs)***
B-10A	31	B-10A	15	B-10A	15
B-16A	50	B-16A	24	B-16A	24
C-10A	52	C-10A	24	C-10A	24
C-16A	85	C-16A	40	C-16A	40

Light output in emergency operation mode (UGR22):
BLF:
34% (410 Lm - LED11S),   19% (400 Lm - LED20S)
12% (390 Lm - LED30S)
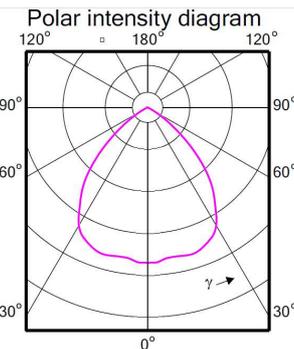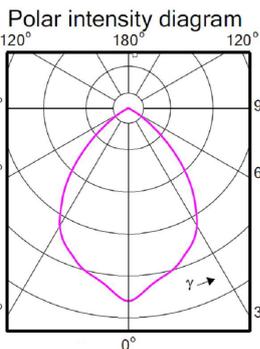
Light output in emergency operation mode (UGR19):
BLF:
34% (390Lm - LED11S)   19% (380 Lm - LED20S)
12% (370 Lm - LED30S)

Polar intensity diagram

Polar intensity diagram

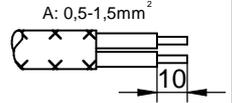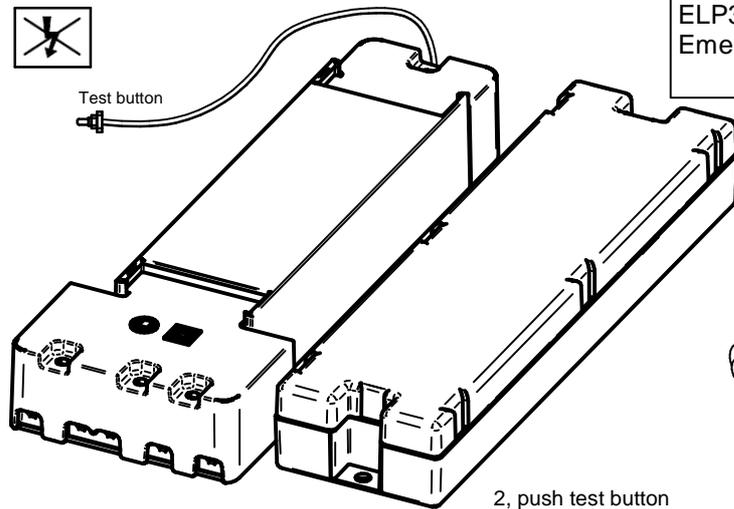Polar intensity diagram

Polar intensity diagram

- Charging time: 16h
- Charge current: 130mA
- Battery: NiMH 2500 mAh sC-Cells
- Battery fuse: F4A 250V (fast)
- AC line fuse: T500mA 250V
- Inrush current (I_{peak}): 3,2A
- T_{peak}(half peak time): 1 msec
- Battery storage temp:
  · at 20-30°C: max 6 months
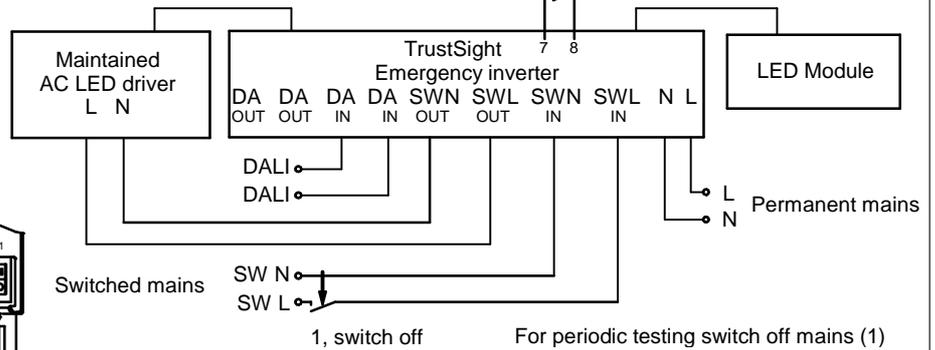 · at 20-40°C: max 1 months
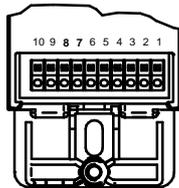
Test button

Luminaire
classificatioin:

| X | 1 | A - - - E | 180 |

X: Self-contained
1: maintained
A: Including test device
E: Non replaceable lamp/battery
180: duration of emergency mode [min]

A: 0,5-1,5mm²

10

2, push test button

Test button is not supplyed with the luminaire.

For launch testing connect test button here

Maintained
AC LED driver
L   N

TrustSight
Emergency inverter   7   8

DA   DA   DA   DA   SWN   SWL   SWN   SWL   N   L
OUT OUT IN   IN   OUT   OUT   IN   IN

LED Module

DALI
DALI

L   Permanent mains
N

Test button:
7&8 connectors

Switched mains

SW N
SW L

L
N

Initiate functional test as
long as switch pressed:
   press 0 < time < 10 s
Initiate duration test:
   press > 10 s

10 9 8 7 6 5 4 3 2 1

1, switch off   For periodic testing switch off mains (1)

To assure the lighting quality of this unique LED lighting concept there are only a few instructions regarding the maintenance of this LED luminaire:
- Do not touch electronic components!
     Electronic components maybe under high voltage.
- Do not stare into LED light beam.
- The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE
   electrical regulations or the national requirements.
- The batteries have a life time expectancy of 4 years.
- After storage time has passed battery can be revitalize only once by full charging.

Periodic tests should be performed according to EN 50172:2004, clause 7.2.3 and 7.2.4. - Testing monthly and annually
- Each month the EL kit is running in emergency mode for 30 seconds (swithc off the luminaire and push the test button).
     Light source must work
- Once a year similar test must performe but with whole duration of the authonomy (3hours)

Self-Test
- The TrustSight Pro and DALI versions are equipped with a self-test functionality according IEC 62034. At 28 days after power-up the TrustSight will perform a functional test of 30 seconds.
Every 6th test (after half year) will be a duration test. This test will run until the battery is empty and it will check if the capacity of the battery is sufficient to provide 3hrs emergency time. This will result in 2 full duration tests every year.
During the tests the battery and output is checked. During the duration test also the battery capacity is checked.
In case of a failure, an error will be indicated by the indicator LED.
When scheduling a test (functional or duration test) the operation of the AC-driver is also checked. When the AC-driver is active, so normal lighting is on, the test will be postponed for a maximum of 3 days. When the AC-driver is off for at least 1 hour the test is started.