RAYCOS LIGHTING

PROJECT NAME _____ DATE _____

NOTE _____

TRCB EMERGENCY TROFFER SERIES

2 x 2 & 2 x 4 EMERGENCY TROFFER

SELECTABLE POWER + INTEGRATED EMERGENCY BACKUP



SIZE
2 x 2 / 2 x 4

POWER
25-50 W SELECTABLE

OUTPUT
UP TO 6,100 LM

EMERGENCY
8 W / 90+ MINUTES

ETL LISTED | DLC PREMIUM | 0-10 V DIMMABLE | 110° BEAM

APPLICATION

COMMERCIAL INTERIORS



PRODUCT FEATURES

VOLUMETRIC OPTICS

- Clean center-basket design with volumetric distribution
- Selectable wattage and selectable CCT
- Factory-installed emergency driver and Li-ion battery
- Illuminated test switch and charging indicator
- Suitable for damp locations
- Ideal replacement for 2 x 2 and 2 x 4 fluorescent troffers

ORDERING GUIDE

EMERGENCY MODELS

Model	Size	Selectable Power	Selectable Lumens	Selectable CCT	Installed Option
RY-TRCB-35W2X2-CCT/EM	2 x 2	25 / 35 W	3,125 / 4,375 lm	3000 / 4000 / 5000 K	Emergency backup
RY-TRCB-50W2X4-CCT/EM	2 x 4	33 / 40 / 50 W	4,026 / 5,000 / 6,100 lm	3000 / 4000 / 5000 K	Emergency backup

BEAM
110°

CRI
>80

POWER FACTOR
>0.9

DIMMING
0-10 V

LIFETIME
50,000+ HRS

PERFORMANCE DATA

TRCB SERIES

- 2 x 2: 25 / 35 W and 3,125 / 4,375 lumens
- 2 x 4: 33 / 40 / 50 W and 4,026 / 5,000 / 6,100 lumens
- Selectable 3000 / 4000 / 5000 K color
- Operating range: -4°F to +104°F (-20°C to +40°C)
- DLC IDs: S-WVBTA1 (2 x 2) and S-DFLM69 (2 x 4)
- Lumen maintenance above 70% at 50,000+ hours

EMERGENCY SYSTEM

FACTORY INSTALLED

- ETL listed and DLC Premium
- 8 W emergency output
- Minimum 90-minute runtime
- 100-277 Vac emergency input
- 7.4 V / 2500 mAh Li-ion battery
- Five-year warranty

Intertek
5000444

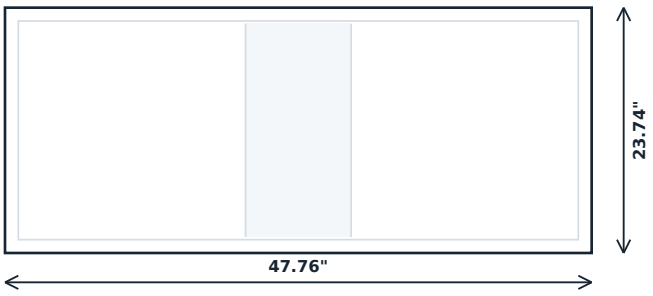
TRCB EMERGENCY TROFFER SERIES

DIMENSIONS & PHOTOMETRICS

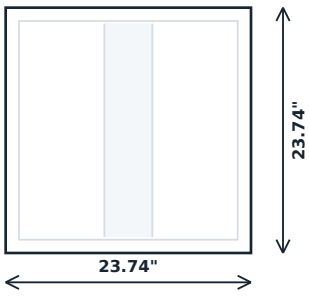
PRODUCT DIMENSIONS

INCHES

2 x 4 FRONT VIEW



2 x 2 FRONT VIEW



SIDE PROFILE



PACKAGE INFORMATION

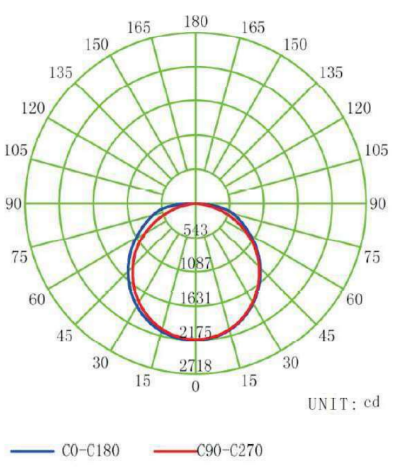
2 FIXTURES PER CARTON

Packing Data	2 x 2	2 x 4
Package quantity	2 pcs	2 pcs
Package size	25.79 x 4.13 x 25.79 in	49.60 x 4.13 x 25.79 in
Package weight	17.0 lb (7.7 kg)	31.9 lb (14.5 kg)
Package CBM	0.045048	0.086657
40GP / 40HQ / 45HQ	~2570 / ~3010 / ~3460 pcs	~1330 / ~1560 / ~1800 pcs

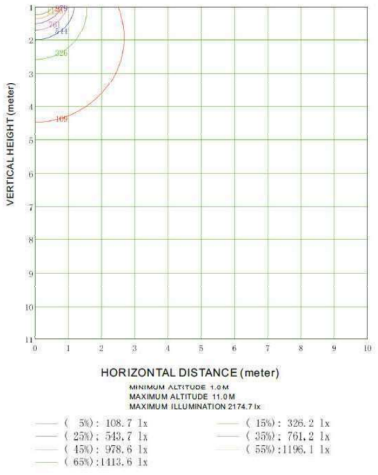
PHOTOMETRIC REPORT

2 x 4 REFERENCE

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



VERTICAL EQUILUMINOUS CURVE



Photometric plots reproduced from the supplied TRCB test report.

TRCB EMERGENCY TROFFER SERIES

INSTALLATION & WIRING

T-GRID INSTALLATION + WIRING GUIDE

POWER / CCT / 0-10 V

WARNING:

1.Switch off before installation.
2.Switch on only after complete installation and examination of the circuit.

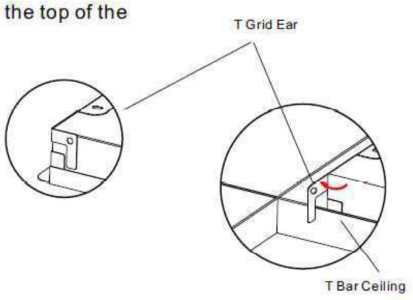


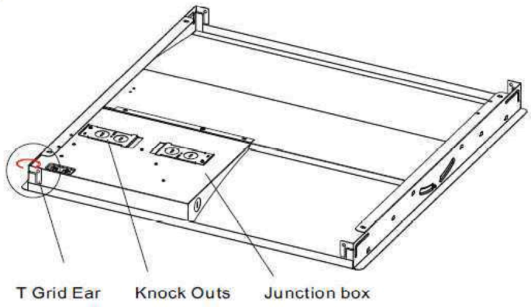


1. Bring the TRCB Troffer into the T bar ceiling panel.

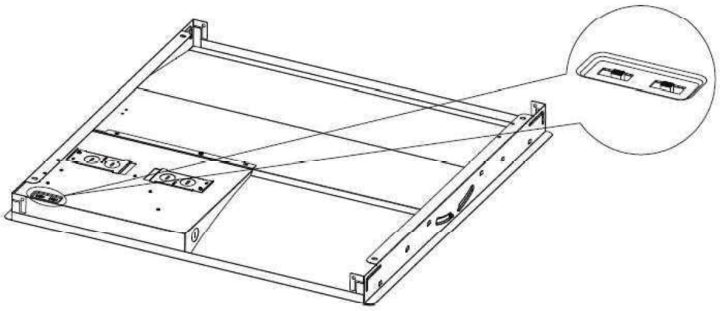
2. Bend T-grid ears over the top of the T bar ceiling.

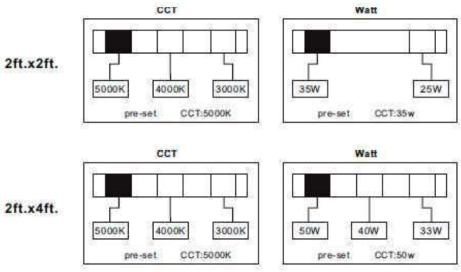
Fold the hook up with 90°





Adjusting the switch, and making the switch fix on the needed Watt and CCT.
Adjustable watt is 2x2ft: 25W/35W,2x4ft: 33W/40W/50W,Adjustable CCT is 3000K/4000K/5000K.





WIRING GUIDE

1.Wire input end of the LED driver to supply wires using connector according to wiring section. Wire connections must be insulated.
2. Connect the BLACK/BROWN lead to LINE(+) supply lead.
3.Connect the WHITE/BLUE lead to NEUTRAL/COMMON (-) supply lead.
4.Connect the GREEN lead to GROUND supply lead.
5.If any, connect PURPLE/BLUE to 0-10V SIGNAL supply lead and GREY/WHITE to 0-10V NEUTRAL/REFERENCE supply lead.

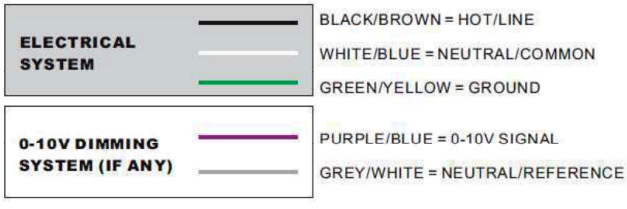


.DISCONNECT POWER BEFORE INSULATING OR SERVICING

.ALL ELECTRICAL WORK SHOULD BE COMPLETED BY QUALIFIED PERSONNEL

.AND MEET NATIONAL (NEC), REGIONAL AND LOCAL ELECTRICAL CODES

WIRING DIAGRAM



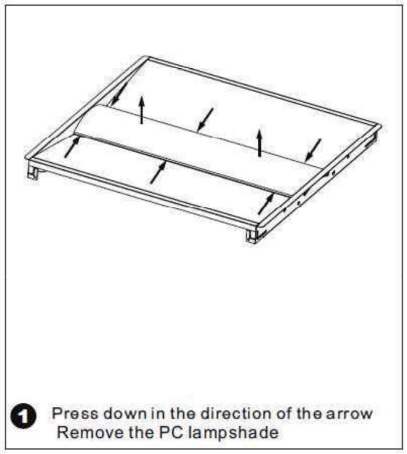
TRCB EMERGENCY TROFFER SERIES

MOTION SENSOR OPTION

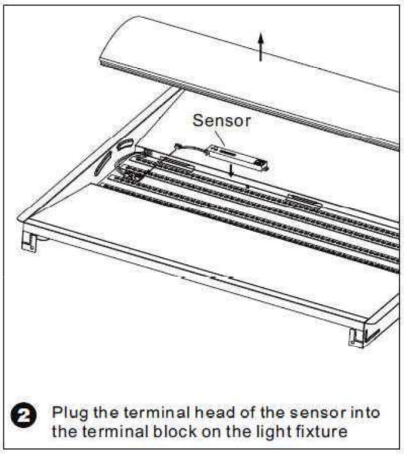
ANT-7 SENSOR INSTALLATION + SETTINGS

DIP SWITCH / REMOTE CONTROL

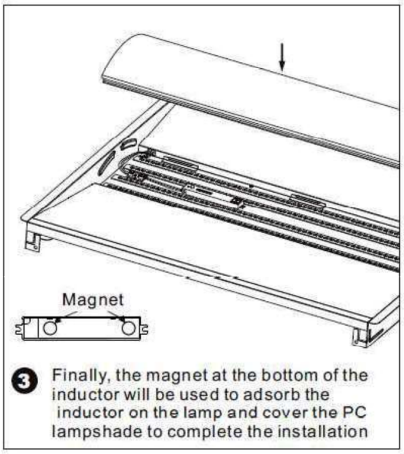
Build-In Motion Sensor Information



1 Press down in the direction of the arrow Remove the PC lampshade

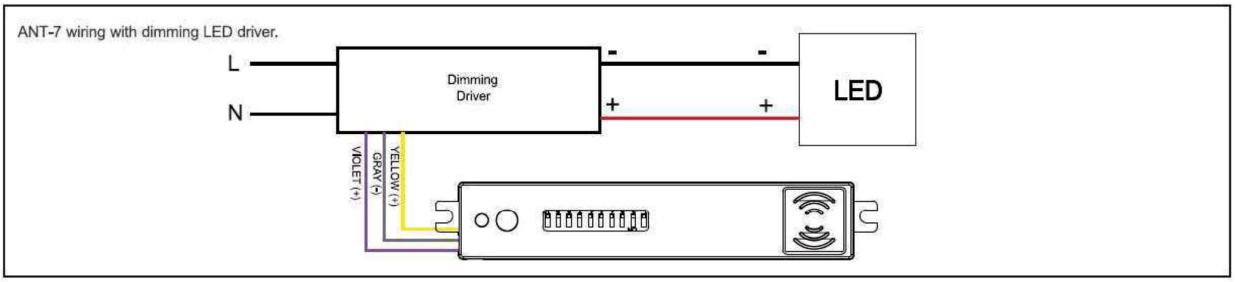


2 Plug the terminal head of the sensor into the terminal block on the light fixture

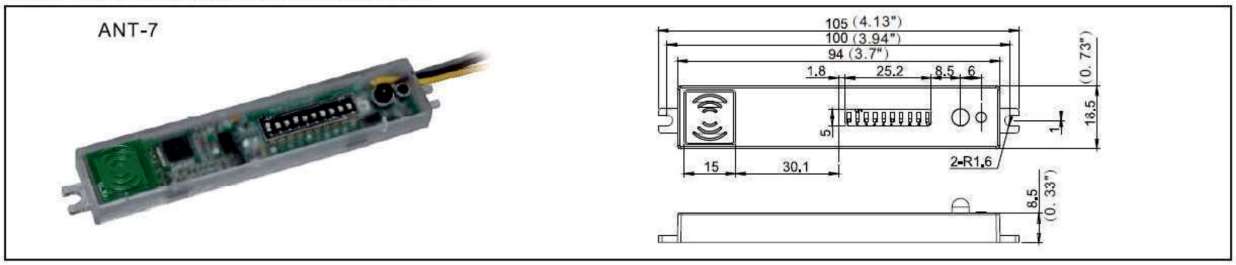


3 Finally, the magnet at the bottom of the inductor will be used to adsorb the inductor on the lamp and cover the PC lampshade to complete the installation

WIRING DIAGRAMS (If the sensor has a terminal head, it can be directly inserted into the terminal block on the lamp. No need to rewire)



BUILT-IN MOTION SENSOR INFORMATION



⚠ WARNING

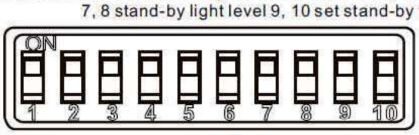
NOTE: Warm up time is 15seconds. After the sensor connects input power first time, the light will keep on 15 seconds, then go to dimming to work normally.
NOTE: Factory Default Setting: 100% sensitivity, Hold on time: 10seconds, Daylight sensor is 30lux, Dimming level:30%,Dimming time: 60minitues.
NOTE: Any setting changed by DIP Switch or remote control, the led light that sensor connect will on/off as confirm.

SPECIFICATIONS

Power supply	12V⎓24V DC, >50mA
HF System	5.8GHz±75MHz
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 17ft.(5.2m)/360°
Mounting height	Max 13ft(4m)
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F ~ 158°F (-40°C ~ 70°C)

PARAMETER SETTING BY DIP SWITCH

Consider the picture: 1, 2 set sensitivity: 3, 4 set hold time; 5, 6 set the lux; 7, 8 stand-by light level 9, 10 set stand-by time;



For detailed adjustment methods, please refer to the



TRCB EMERGENCY TROFFER SERIES

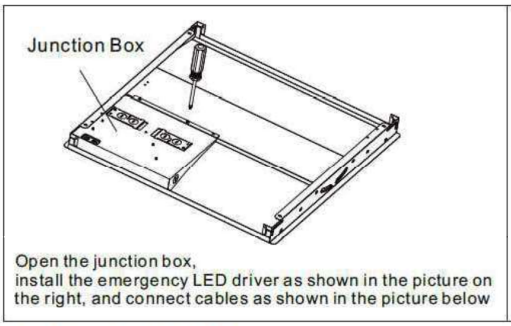
EMERGENCY BACKUP

EMERGENCY DRIVER INSTALLATION + OPERATION

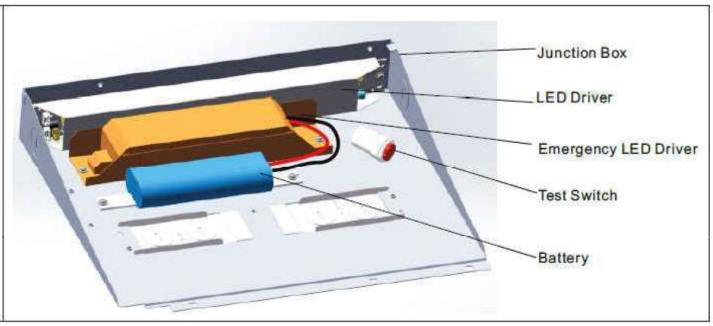
8 W / 90+ MINUTES

Build-In Emergency Back-up Information

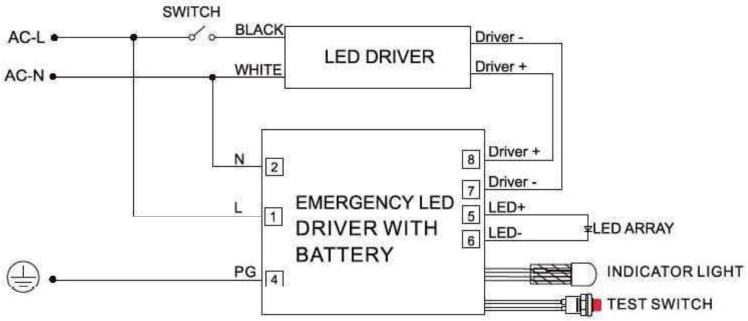
EMERGENCY LED DRIVER INSTALLATION POSITION



Open the junction box,
install the emergency LED driver as shown in the picture on the right, and connect cables as shown in the picture below



WIRING DIAGRAM



1.DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
2.TEST ACCESSORY LEADS-OBSERVE PROPER POLARITY WIRING.

EMERGENCY LED DRIVER INFORMATION

Specifications:

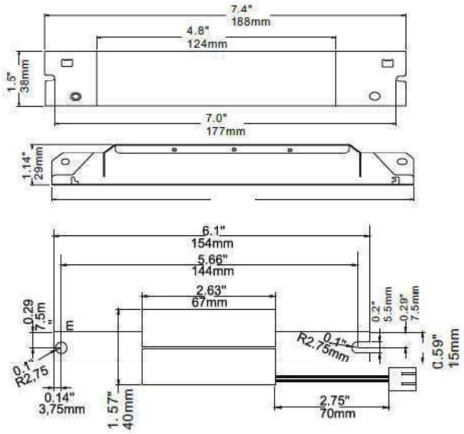


Specifications:

Universal Input Voltage	100 277Vac 50 60Hz
AC Input Current	100mA max.
AC Input Power Rating	7.0W max.
Output Current and Voltage	160-320mA 25 48Vdc
Output Power	8W
Emergency Time	⩾1.5H
Full Warranty	5 Years
Test Switch Indicator Light	Illuminated Test Switch,indicator Light
Battery	Li-ion battery-7.4V/2500mAH
Battery Charging Current	250mA
Charging Time	⩾24Hours
Temperature Rating （Ambient）	Li-ion 0°C to +40°C (32°F to 104°F)

Dimensions:

Case-7.4"x1.5"x1.14"(mounting center-7.0")
Battery 6.1"x1.57"(mounting center-5.66")



AC Operation:
AC power is present,The LED load from the LED driver is normal power supply, AC LED driver output current can not exceed150W or 4A.the emergency driver is charging in a standby mode,The green LED light on to indicate that it is charging.

Emergency operation:
When the AC power goes out,The emergency driver detects the AC power outage and automatically switch to the working emergency mode. The green LED off. When the AC power is restored,the emergency driver backs to AC power working and