Range Troffer Retrofit

2X2,2X4

WISDOM LIGHT



The Range Troffer Retrofit Kit is our newest LED lighting solution for customers looking to upgrade their fluorescent luminaires to a high performing aesthetically-pleasing LED system without the need to install a complete luminaire. This innovative, high quality retrofit kit is dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency.
The retrofit kit is engineered for simple and quick installation making it easy to switch to LED.

- Easy and quick installation



recessed Mount

CCT Select | Wattage Select | 5 YEAR WARRANTY | Intertek | DLC PREMIUM

Retrofit Troffer	Length	Wattage	Output Lumen	Nominal Efficacy	CCT Select	Input Voltage	Dimming	CRI	Flicker Index
WL-3TRRS2224/30/36DUV	2'X2'	24W/30W/36W	3120lm/3900lm/4680lm	130lm/w	3500K 4000K 5000K	AC120-277V	0-10V	>80	<30%
WL-3TRRS24/24/36/45DUV	2'X4'	24W/36W/45W	3120lm/4680lm/5850lm						

Order Guide

Sample Model#: Stack TR-WL-3TRRS2224/30/36DUV (3500K-4000K-5000K)-T

Stack	WL-3TRRS						
Luminaire ID	**Series**	**Length**	**Wattage**	**Dimming**	**Voltage**	**CCT**	**Additional Function**
Stack TR= Stackable Troffer Retrofit	WL-3TRRS = GEN3 Troffer Retrofit	22=2*2FT 24=2*4FT	24/30/36 = 24/30/36 Wattage Select 24/36/45 = 24/36/45 Wattage Select	D=0-10V Dimming	UV=120-277V	3500K-4000K-5000K-T= 3500K-4000K-5000K Select	Blank=NON [EM]=Emergency Driver [MS]= Motion sensor

Application - Ranger Troffer Application in office,Workshop,Warehouse,Shop,School



2'x 2'



2'x 2'



2'x 4'



2'x 4'

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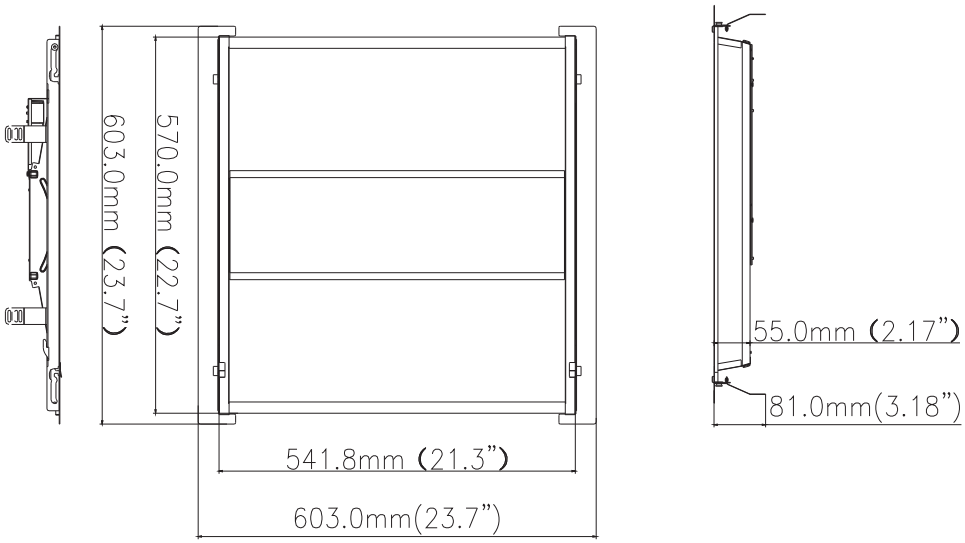
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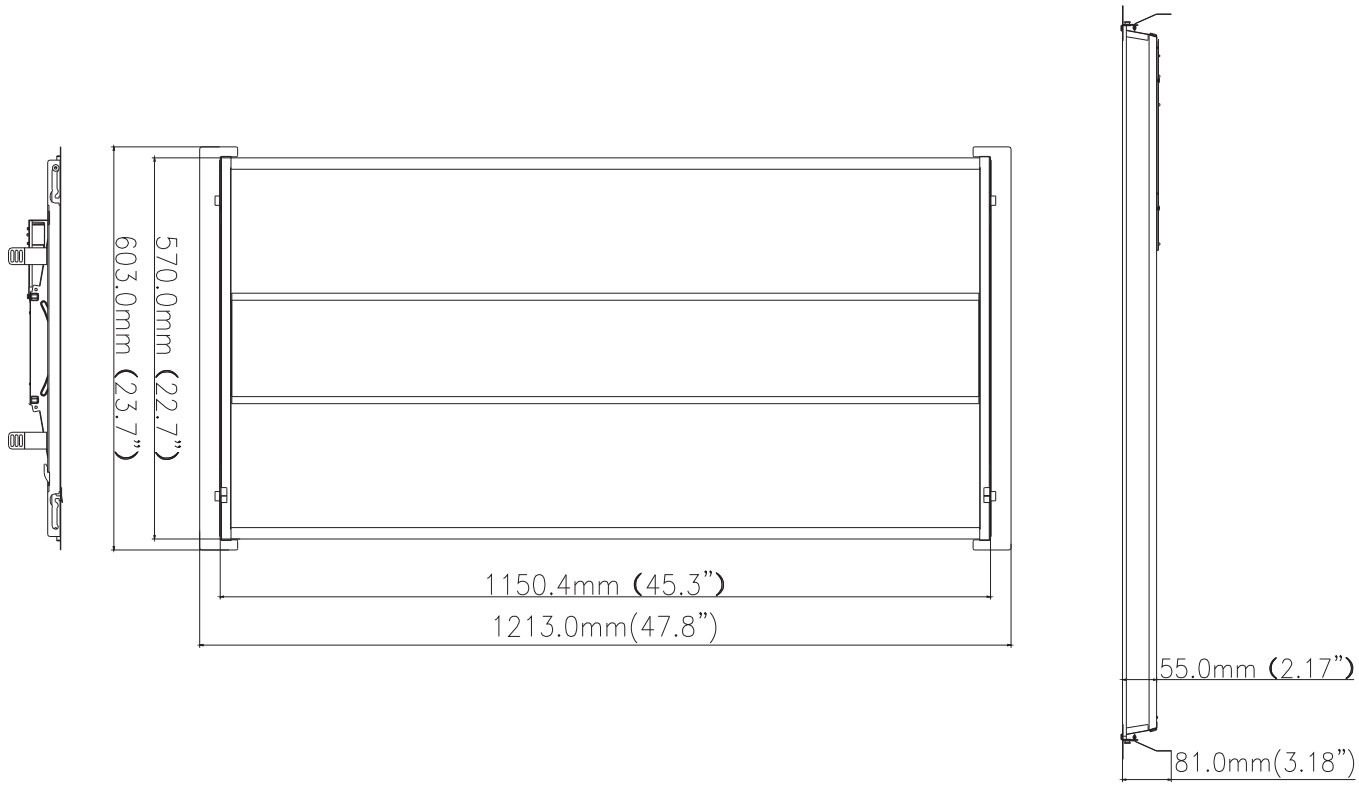
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WISDOM LIGHT

Product Dimension





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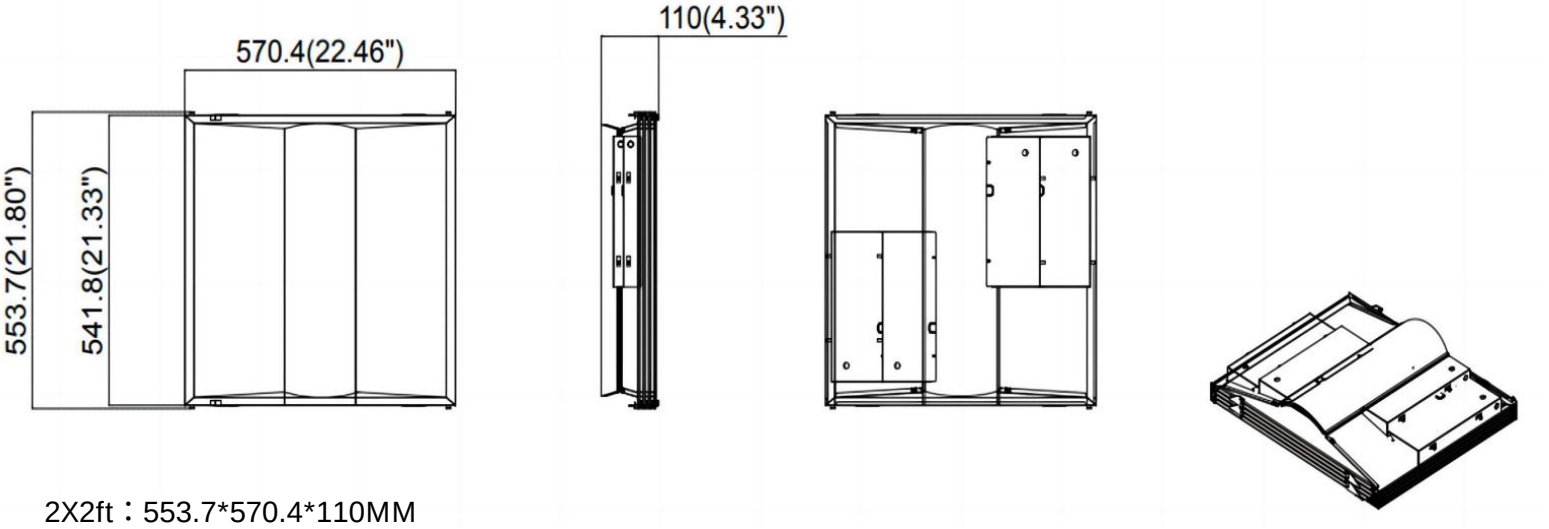
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Range Troffer Retrofit

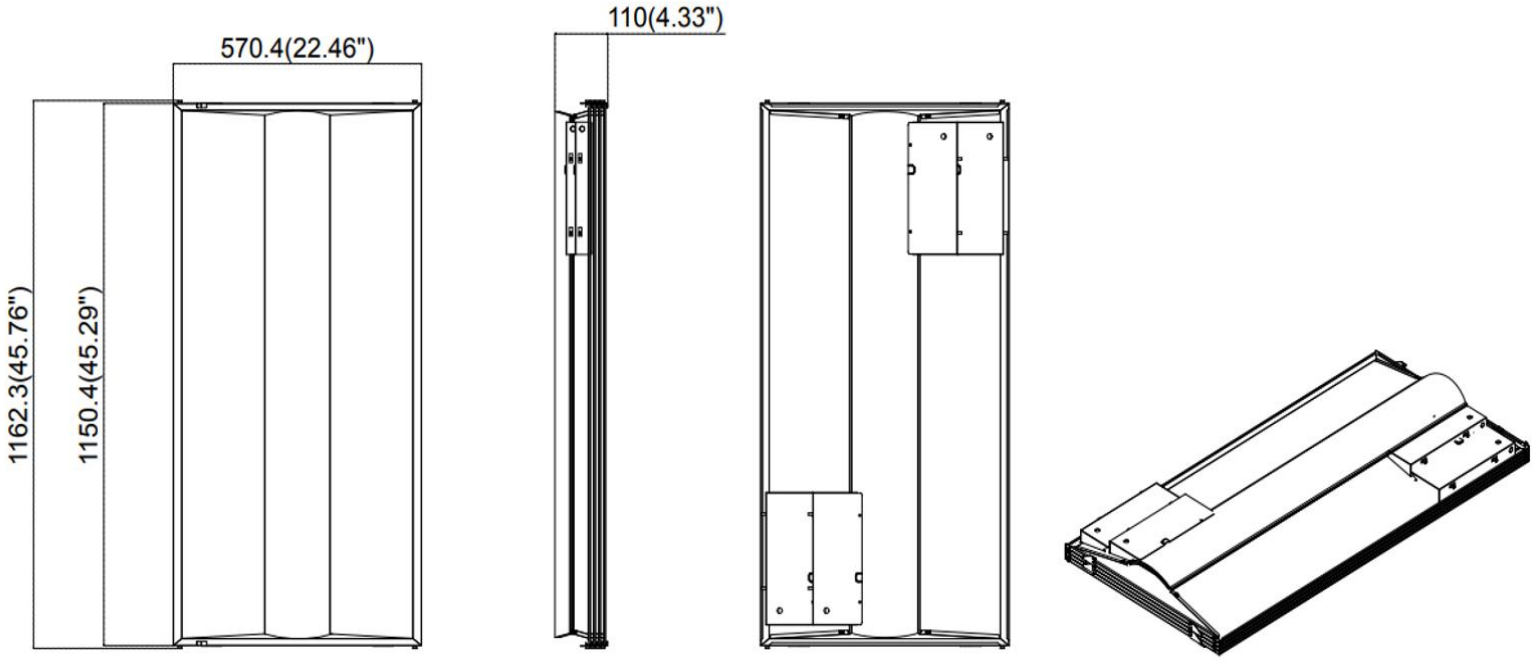
2x2,2x4

WISDOM LIGHT

Stacked Dimensions (Pack of Four)



2X2ft：553.7*570.4*110MM



2X4ft：1162.3*570.4*110MM

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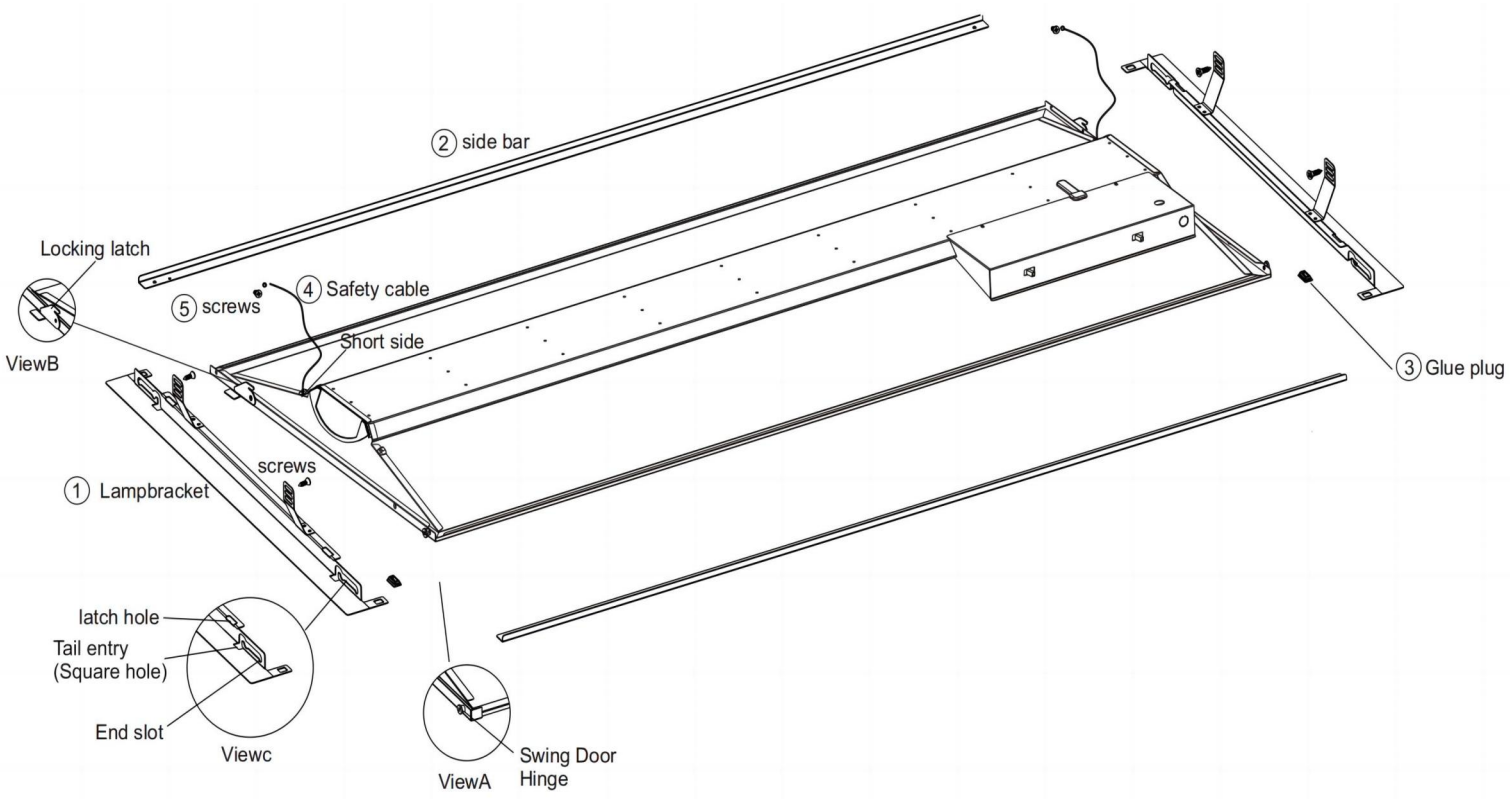
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Range Troffer Retrofit

2x2,2x4

WISDOM LIGHT

PARTS TABLE



PART NAME	QTY/pcs
Screwss(φ4.2*16mm)	6
Safety cable	2
Glue plug	2
Side bar	2
Lampbracket	2

Range Troffer Retrofit

2X2,2X4

WISDOM LIGHT

Accessories (Ordered separately)



Surface Mount Kits
For 2X2FT Troffer
Dimension:605*617*68mm



Surface Mount Kits
For 2X4FT Troffer
Dimension:1215.4*617*68mm



Surface Mount Kits
For 1X4FT Troffer
Dimension:1215.4*317*68mm



External
8WEM =Emergency backup 8W



Internal
8WEM = Emergency backup 8W



Bluetooth / PIR Sensor
Low Voltage Plug and Play Sensor

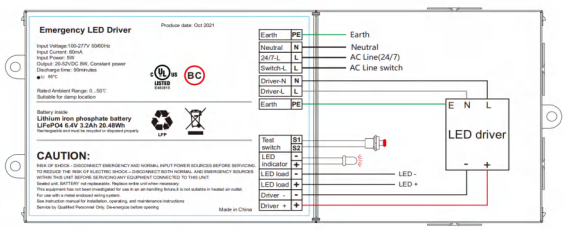


Indicate light & test switch

External

8WEM =Emergency backup 8W



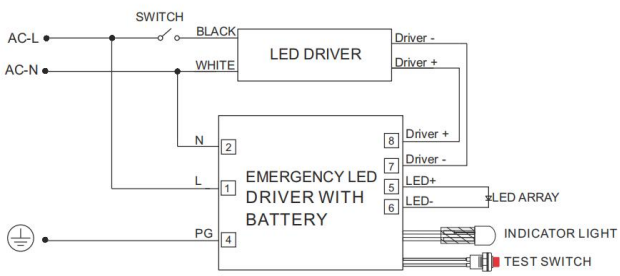


Applications :
- UL Listed for dry locations.
- For use on a wide range of LED fittings to convert them from standard to emergency fitting.
- Additional Relay that can control standard LED driver.
- Deep discharge protection.
- Ambient range ta 0...50℃.
- IP20 protection.

Internal

8WEM = Emergency backup 8W





Applications :
- Meet most of safety standards for lighting
-Standard CSA C22.2 NO.141、UL924
-External lithium battery
-Battery protections over charge protection over discharge protection short circuit protection
-Indicator shows a variety working modes
-The batteries Meet 500 cycles of standard CH and standard DCH
-RoHS compliant
-Emergency 1.5H

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WISDOM LIGHT

Bluetooth / PIR Sensor

Low Voltage Plug and Play Sensor



A compact PIR sensor with integrated photocell for occupancy sensing and daylight harvesting.

- Fits low-profile luminaires.
- Plug-and-play with easy integration.
- Dusk-to-dawn operation with photocell.
- Auto-calibrates for optimal lighting.

Input Voltage	IDetection Range	Mounting Height	Operating Temperature	IP Rating
DC 12V	32ft Max	15ft Max	-30°C to 65°C (-22°F to 149°F)	IP20

Indicate light & test switch



Type: Indicator Light
Diameter: 10mm
Voltage: 6V
Rating: 250V AC, 0.3W
Insulation Resistance: DC500V ≥ 5MΩ
Dielectric Strength: AC1500V/1mm
Electrical Life: > 20,000 hours

Multiple options - Sensor & Emergency Function Cover

CAP-CA



Indicate Light & Test Switch Cover [Customize]

CAP-S [Default shipping specification]



Blank (lid only)

CAP-CB



Bluetooth / PIR Sensor Cover [Customize]

Emergency & Sensor can be installed after removing the cover



Emergency & Sensor Cover

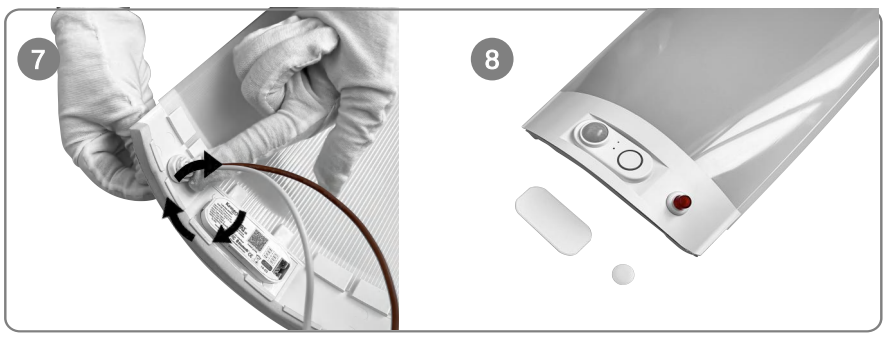
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Accessory Installation Diagram





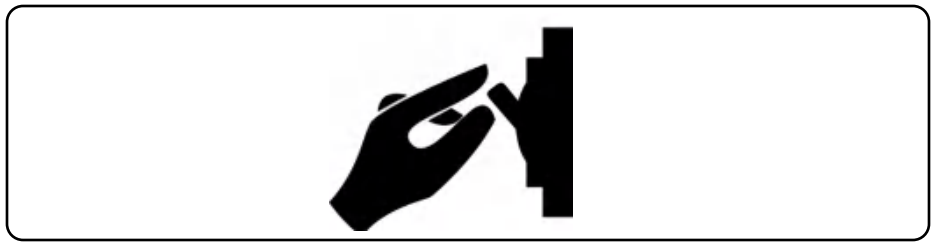


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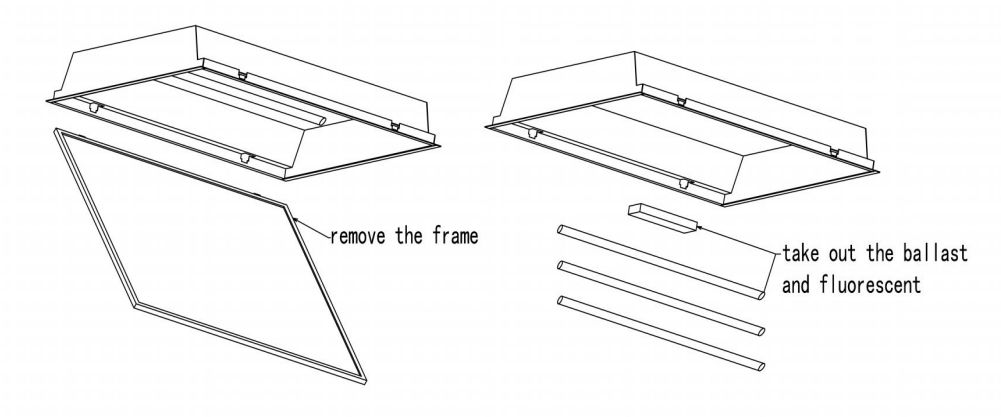
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INSTALLATION INSTRUCTION

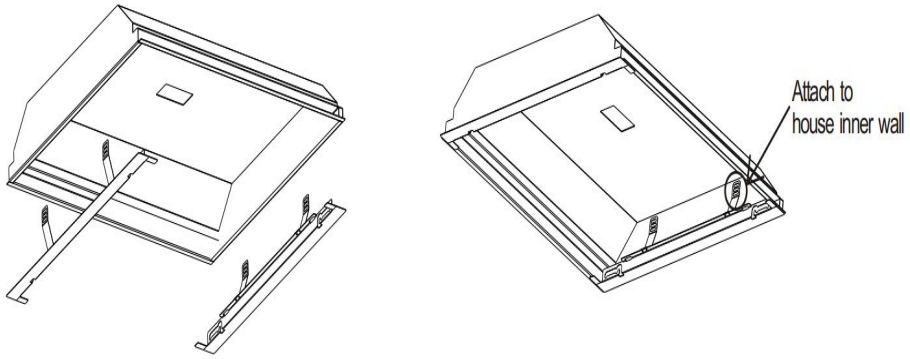
1.Make sure the powef is cut off



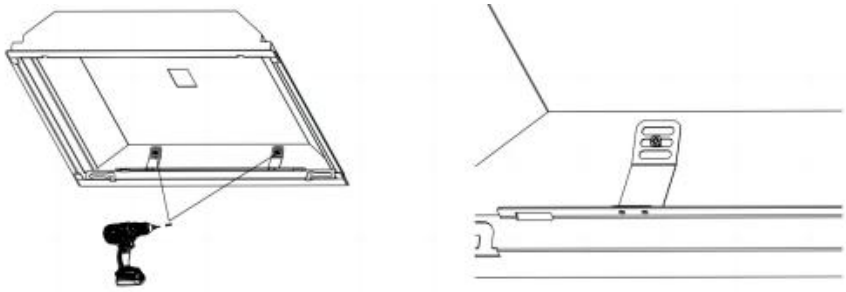
2.Remove the frame, ballast ,Ballast cover, Socket Bars and existing fluorescent from the existing fixture.



3.Fix the Lamp Bracket on the Existing housing with Self Tapping Screws (Screw Size 4.2X16)



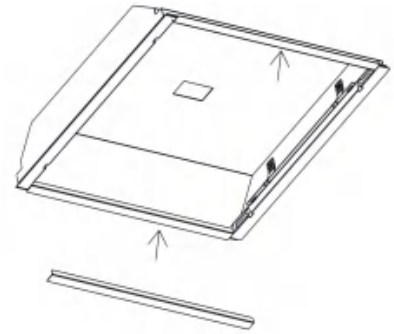
4.Fix the Lamp Bracket on the Existing housing with Self Tapping Screws (Screw Size 4.2X16)

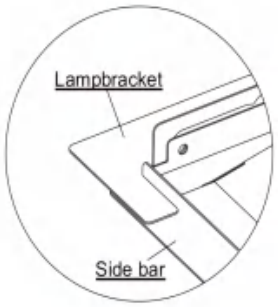


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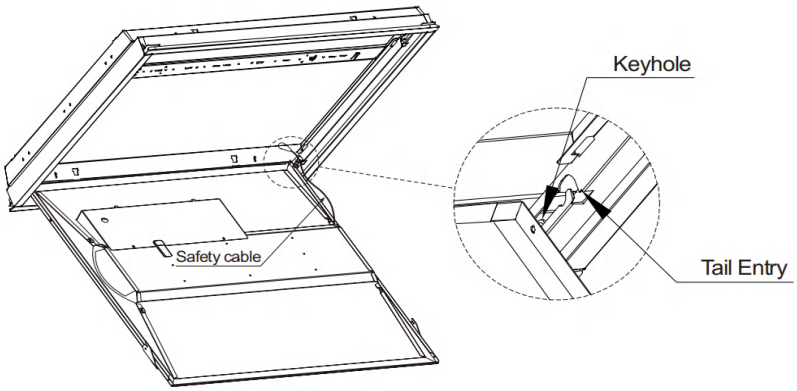
INSTALLATION INSTRUCTION

5.Put the “L” Shape Side Bar Between the Retrofit and “T” Grid , locate the Side Bar under the Lamp bracket

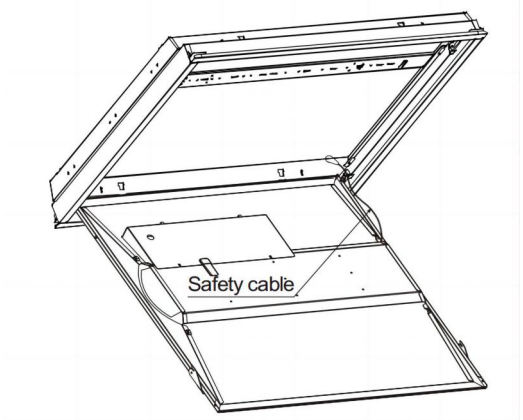




6.Slide the swing door hinge of the retrofit kit into the keyholes attached at the tail entry of the lamp bracket,then push the lamp to the end slot of the brackets.

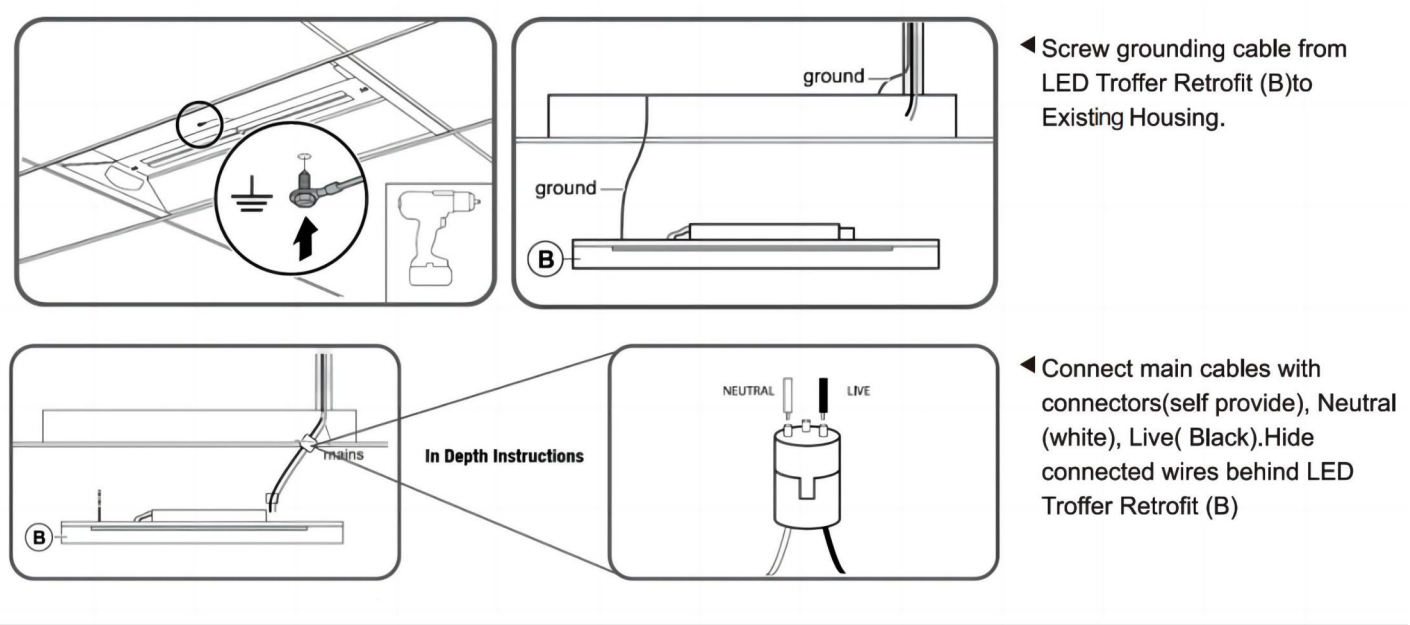


7.Drill and install the safety cable on the existing Housing,to secure the weight balance for the whole fixture.



INSTALLATION INSTRUCTION

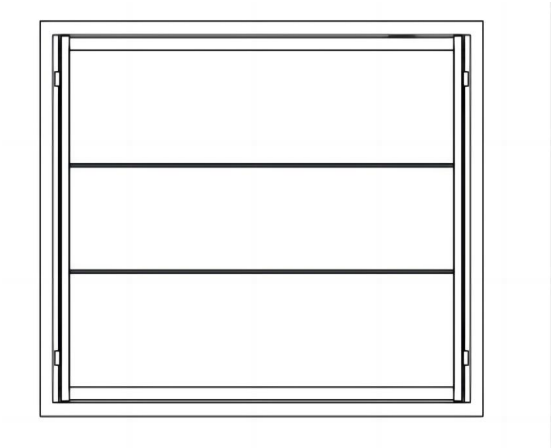
8.Wiring the input cord and grounding cord according to the wiring schematic Below



◀Screw grounding cable from LED Troffer Retrofit (B)to Existing Housing.

◀Connect main cables with connectors(self provide), Neutral (white), Live(Black).Hide connected wires behind LED Troffer Retrofit (B)

9.Close the Fixture, and secure both latches on each side



10.Cover 4 square holes on the Lamp brackets with ③3 glue plug



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2x2,2x4

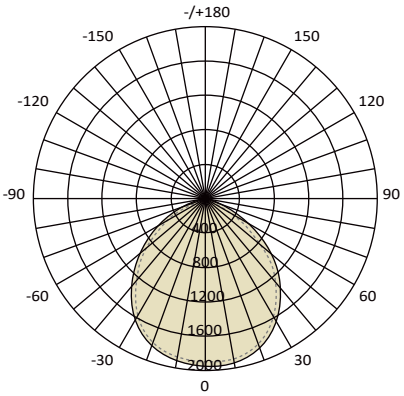
WISDOM LIGHT

Performance

SIZE	2X2 FT			2X4 FT		
POWER	24W	30W	36W	24W	36W	45W
Lumen output	3114lm	3831lm	4622lm	3107lm	4460lm	5715lm
Light Efficiency	134lm/W	133lm/W	132lm/W	139lm/W	137lm/W	134lm/W

Above are subjuect to 4000K . All efficacy is ±5% base on different CCT. For other CCT, please check the IES file to gain accurate data

Stack TR-WL-3TRRS2236-840
Stack TR-WL-3TRRS/2X2'/36W/RA80/4000K



AVERAGE BEAM ANGLE (50%) : 111.4 DEG

Total Lumens:4276.22lm
Input Watts: 36.0W
Efcacy:131.58lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	1450	1449	1448	1448	1443
20	1376	1371	1367	1370	1361
30	1252	1242	1233	1243	1232
40	1086	1070	1054	1073	1066
50	899.2	866.4	840.1	872.6	883.0
60	729.7	654.5	604.0	668.1	720.0
70	585.2	461.4	357.3	480.7	577.6
80	372.4	281.1	125.8	299.7	349.4
90	0.2928	1.621	2.209	2.164	0.2883
DEG	LUMINOUS INTENSITY:cd				

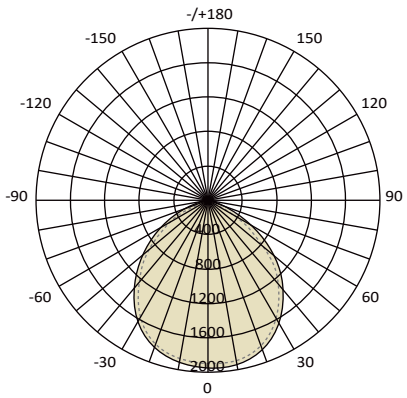
Zonal Lumens

Y	Φ zone	Φ total
0-10	139.1	139.1
10-20	397.2	536.3
20-30	598.1	1134
30-40	714.6	1849
40-50	733.6	2583
50-60	664.3	3247
60-70	537.4	3784
70-80	373.0	4157
80-90	114.2	4271

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	47223	13121
80	59570	20124
75	54304	25450
70	47524	29017
65	43110	31597
60	40541	33555
55	39217	35100
50	38861	36307
45	39033	37378

Stack T- WL-3TRRS2445-840
Stack T- WL-4TRS/2X4'/45W/RA80/4000K



AVERAGE BEAM ANGLE (50%) : 113.1 DEG

Total Lumens:5755.73lm
Input Watts: 42.7W
Efcacy:134.79lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	1946	1928	1899	1877	1865
20	1885	1850	1790	1749	1720
30	1754	1706	1620	1558	1519
40	1562	1502	1391	1317	1278
50	1326	1252	1116	1047	1043
60	1091	980.0	808.0	785.6	860.1
70	896.9	729.5	480.2	548.7	645.6
80	701.2	513.8	170.8	232.5	111.5
90	224.0	151.5	0.3476	0.2980	0.4070
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-10	183.1	183.1
10-20	523.5	706.6
20-30	790.5	1497
30-40	947.4	2445
40-50	978.0	3422
50-60	895.1	4318
60-70	734.4	5052
70-80	499.7	5552
80-90	188.9	5741

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	8378	900
80	5609	1366
75	4323	1709
70	3642	1950
65	3249	2120
60	3030	2245
55	2917	2340
50	2866	2412
45	2843	2473

Fix the Lamp Bracket on the Existing housing with Self Tapping Screws (Screw Size 4.2X16)

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2X2,2X4

WISDOM LIGHT

Product Specifications

Construction

- Innovative design allows for quick and simple retrofit of fluorescent recessed troffers and parabolic luminaires resulting in an upgraded look with superior lens uniformity and visual comfor
- Unibody endplates for added strength
- Large access plate for supply connection

Optics

- Optimal distribution, excellent uniformity, and high performance optics

Finish

- Fixture housing and back reflector are high reflectance white
- Electrostatically applied polyester powder coat paint for durability and luminous uniformity Injection molded end plates are color matched

LED and Light Engine

- LED's are available in 3500K, 4000K, 5000K, 3 CCT Select
- Long-life LED system coupled with electrical driver to deliver optimal performance
- Projected life is 100,000 at 75% lumen output
- Typical CRI ≥ 80

Mounting

- Universal flange design works with most lay-in ceiling types
- Integral pry-out tabs secure luminaire to ceiling grid from above
- Fixture offers tie-in locations for tie-wire on all corners
- Consult local code for appropriate tie-wire recommendations
- See Technical Notes section for drywall frame kit and surface mount kit options

Weight

- 2x2 = 6 lb
- 2x4 = 11.6 lb

Environment

- Suited for damp location installations.
- Operating temperature range: -25° C to 50° C

Compliance

- ETL for damp locations
- RoHS compliant
- Tested to IESNA LM-79 and LM-80
- DesignLights Consortium® Qualified and classified for DLC Premium, refer to www.designlights.org for details and listed configurations.
- Can be used for State of California Title 24 high efficacy luminaire

Warranty

- Five year warranty standard.
  Optional ten year warranty available.

Packing Information:

Model Number	G.W./CTN	Carton Dimensions	PCS/CTN
2×2 Stack Pack	12.5 Kg	700×650×115mm	4 Pcs
2×4 Stack Pack	22.6 Kg	1215×650×115mm	4 Pcs

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