Retrofit Magnetic Strips

T7

WISDOM LIGHT



The WL- 2WRTST - series 4ft LED retrofit strip kits deliver up to 130LPW,while achieving up to CRI 80. The innovative kit is designed for retro-fitting existing troffer and strip luminaires.
The kits is easy to install and fits into almost any existing linear fixture via magnets ,making it a perfect upgrade option where energy savings and long life,without the added renovation labor and waste.

- Dimmable：0-10V dimmable.
- Mounting Method: Magnetic LED strips and quick-connect driver.
- Easy and quick installation, quickly and conveniently installs. with existing fixture body in 3 minutes.
- No noise, maintenance-free, no glare, flicker or hot spots.
- Durable - 5-year warranty. Long life up to 50,000 hours.



T7 Retrofit Magnetic Strips	Length	Wattage /1 Strip	Strips Q'ty	Total Power	Nominal Efficacy	Lumen	CCT Single	Input Voltage	Dimming	UGR	CRI	Flicker Rate
WL-2WRTST220D	4'	10W	2	20W	130lm/w	2600lm	3500K 4000K 5000K	AC120-277V	0-10V	<22	Ra>80	<30%
WL-2WRTST230D	4'	15W	2	30W		3900lm						
WL-2WRTST240D	4'	20W	2	40W		5200lm						
WL-2WRTST260D	4'	30W	2	60W		7800lm						
WL-2WRTST280D	4'	40W	2	80W		10400lm						

Order Guide

Gen2 T7 130LM/W,OPTIC LENS,DLC PREMIUM ,UGR<22

Sample Model#: Magnetic-WL-2WRTST280D(4000K)

Magnetic	WL-2WRTST						
Luminaire ID	Series	Length Pattern	Number	Wattage	Dimming	CCT	Additional Function
Magnetic= Magnet Retroft Strip Kits	WL-2WRTST= GEN2 T7 Retroft Strip Kits	BLANK =4FT	2= 2 strips	20=20W 30=30W 40=40W 60=60W 80=80W	D=0-10V Dimming 120-277V	3000K 3500K 4000K 5000K	Blank= Non MS=Motion sensor EM =Emergency Driver B =Emergency Driver +Microwave sensor

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Application - Troffer Retrofit Strip Kits Application in office,Workshop,Warehouse,Shop,School

1.Use as LED Strip Fixture

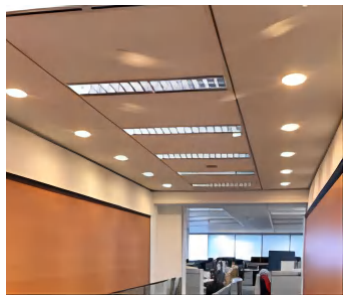




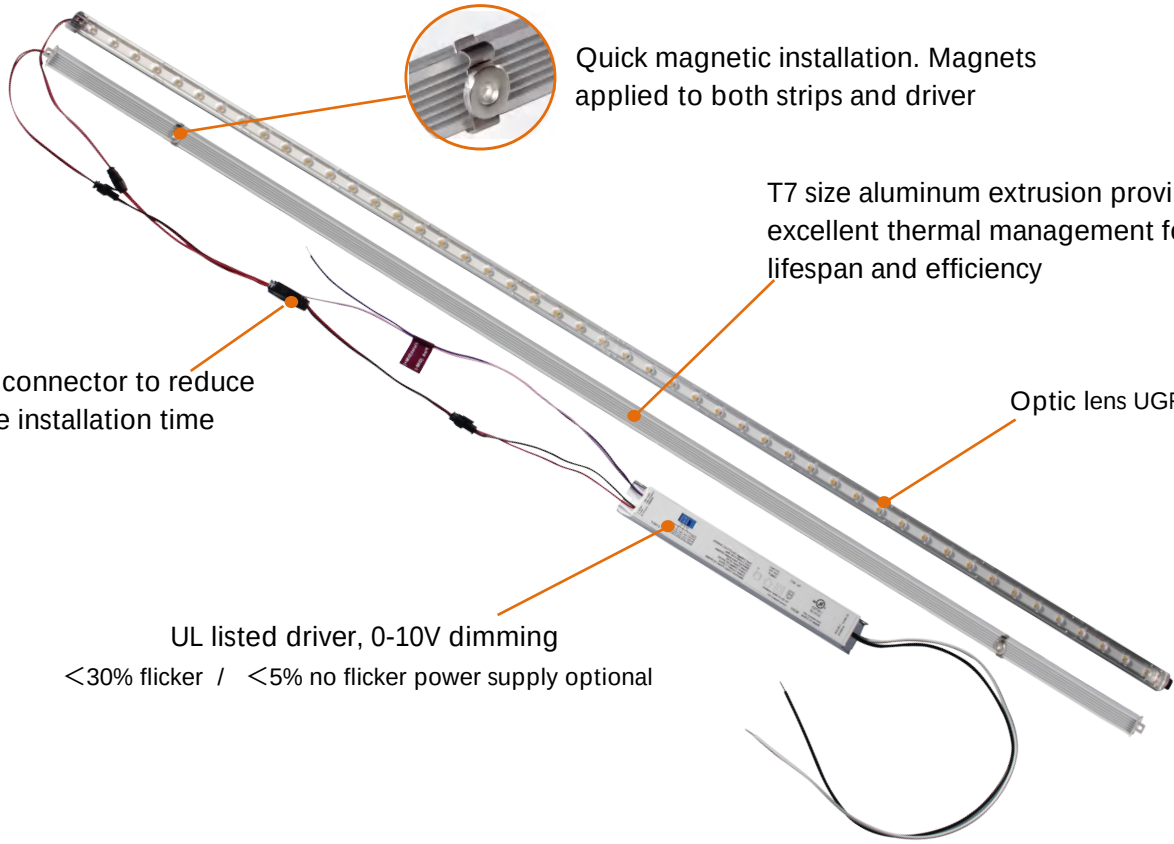


2.Replace the old fuorescent tube









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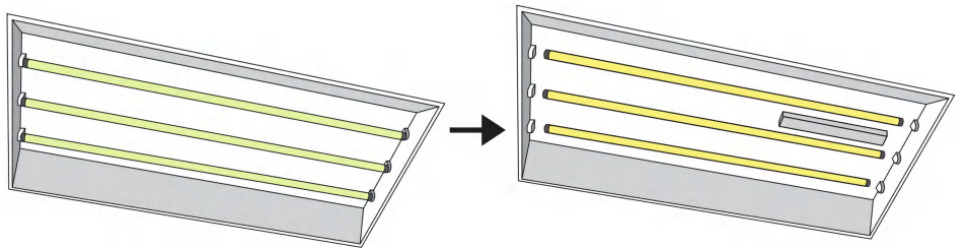
TYPICAL INSTALLATIONS

An installer can simply remove the old fluorescent tubes, disconnect the existing ballast, connect the driver for the magnetic tubes to power, and place the magnet side of the driver onto the fixture. Magnetic tubes can then simply be placed in the fixture using built-in magnetic mounts and connected to driver to finish the installation.

This type of installation saves time and money, doesn't require the installer to know what kind of ballast or bulb type the original fixture uses, while also providing bright, efficient, high CRI lighting

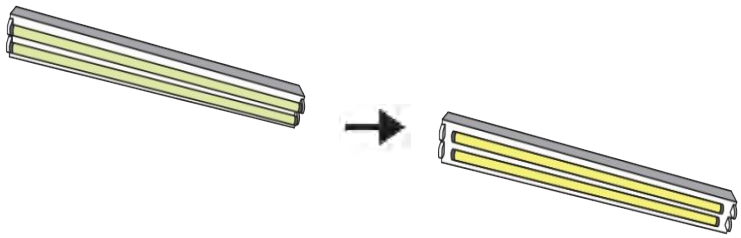
4' x 2' troffer

WL-2WRTST220/30/40/60/80D



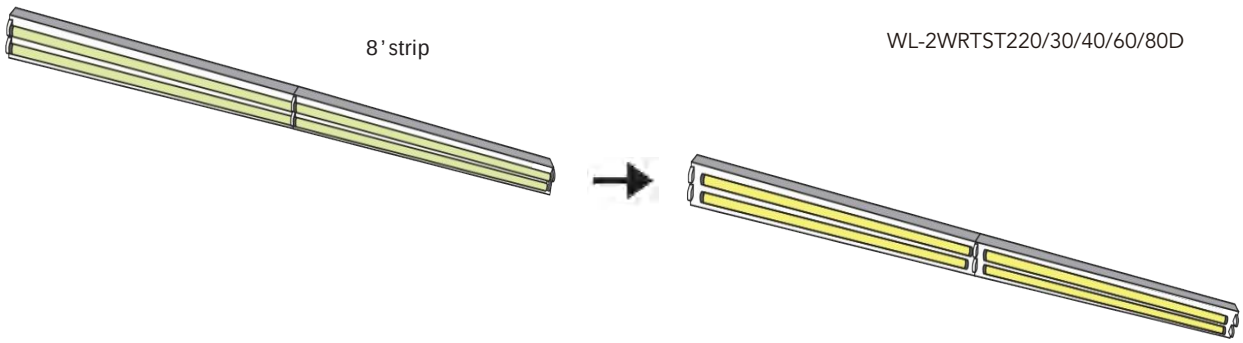
4' strip

WL-2WRTST220/30/40/60/80D



8' strip

WL-2WRTST220/30/40/60/80D

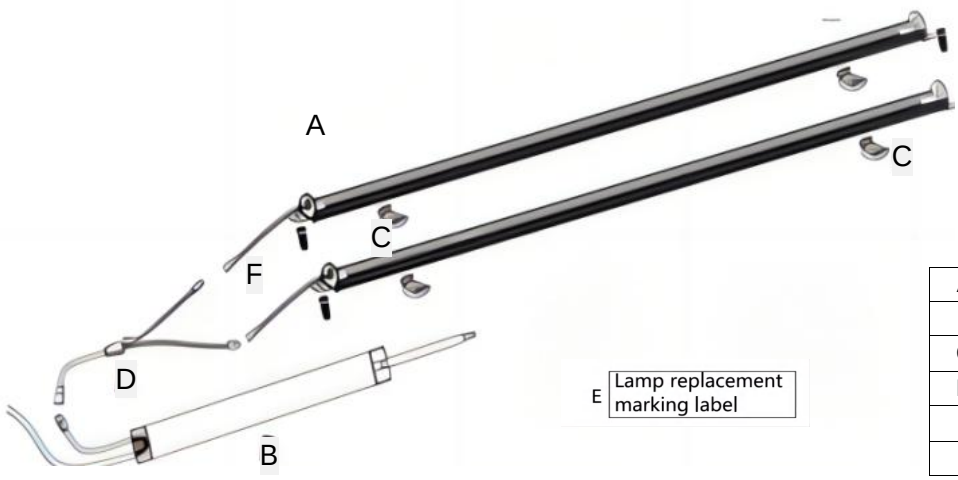


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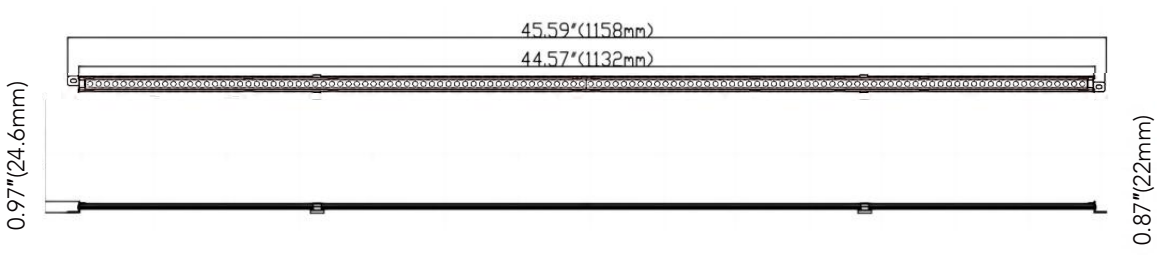
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Getting Started



A	4' LED strips
B	LED driver
C	Round Magnets
D	Quick connect
E	Luminaire Modification label
F	Tek Screw optional

Dimensions



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Accessories (Ordered separately)



Bi-level Daylight Harvest Microwave Senso



Integrated 12V Eco Microwave Sensor



External

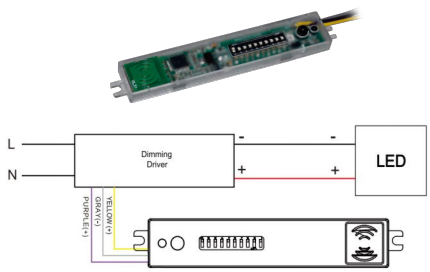
8WEM =Emergency backup 8W



Internal

8WEM = Emergency backup 8W

Bi-level Daylight Harvest Microwave Senso



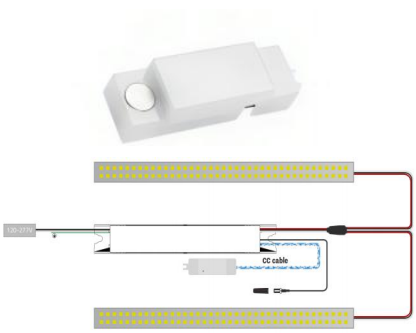
SPECIFICATIONS

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	-40F~158°F(-40°C~70°C)



Sensor Remote Programmer

Integrated 12V Eco Microwave Sensor



SPECIFICATIONS

Input Voltage	DC 12V
Input Power	0.1W
Housing Material	UL 94-VO
Detection Range	20-40ft (depending on mounting height)
Mounting Height	8-20ft
Indoor/0utdoor Use	Indoor
Operating Temperature	-30°Cto 55°C,-22°F to 131°F
Storage Temperature	-30°C to 85°C, -22°F to 185°F
IP Rating	IP20

Features：

• Microwave occupancy sensor supports setting a delay time and bi-level dimming of sensors through the app.

• Magnet mount for simple installation and flexible positioning

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Retrofit Magnetic Strips

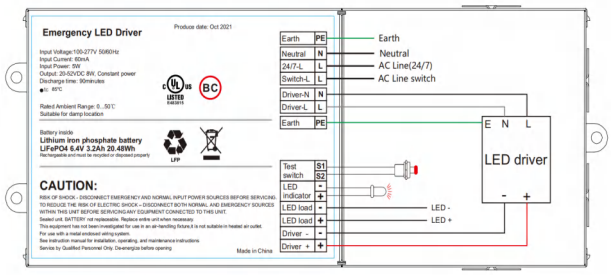
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WISDOM LIGHT

External

8WEM =Emergency backup 8W





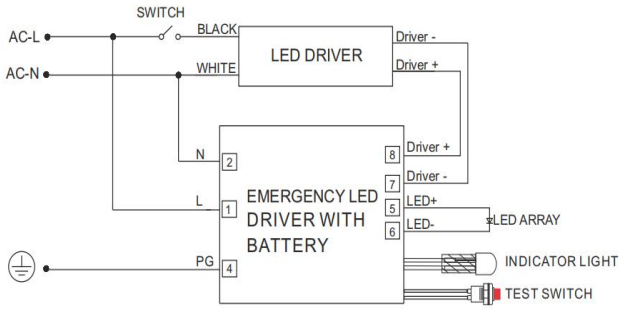
Applications：

- 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°C.
- 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

PACKING



Three packaging methods

MODEL	OUTER CARTON TYPE	OUTER CARTON DIMENSIONS /CM	N.W./CTN	G.W./CTN	PCS/CTN
2 FT-2 Strip	LED strip outer carton	66.5*21*18.5	5	6	50PCS
	Quick connect cable outer carton	44.2*41.8*13	8.5	9.2	500PCS
	Power supply outer carton	44.2*39.2*12	11	12	50PCS
4FT-2 Strip	LED strip outer carton	124*21*22.5	8.5	9.8	70PCS
	Quick connect cable outer carton	44.2*41.8*13	8.5	9.2	500PCS
	Power supply outer carton	44.2*39.2*12	11.9	12.5	50PCS

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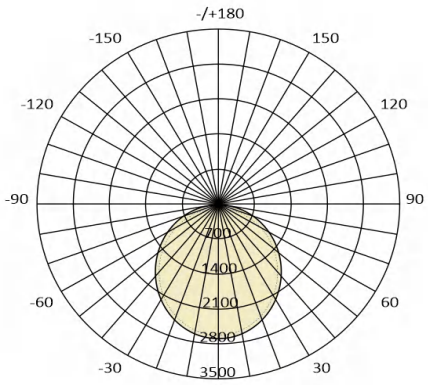
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Performance

Magnetic-WL-2WRTST230D
Magnetic-WL-2WRTST/4'/2strips/30W/RA80/5000K



AVERAGE BEAM ANGLE(50%):84.2 DEG

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	3046	3042	3036	3030	3025
20	2878	2873	2852	2842	2799
30	2501	2479	2452	2423	2378
40	1777	1708	1584	1611	1527
50	268.4	373.7	348.3	318.5	187.1
60	47.21	80.75	104.1	84.40	58.75
70	19.62	33.34	56.63	36.70	18.01
80	48.85	44.46	24.76	11.46	25.65
90	0.7634	0.6744	0.2641	0.0558	0.0515
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumen

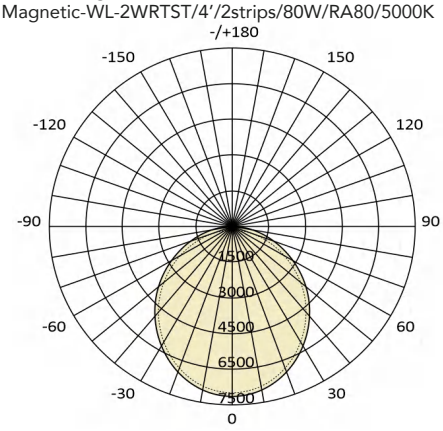
Y	Φ zone	Φ total
0-10	291.4	291.4
10-20	838.6	1130
20-30	1234	2364
30-40	1307	3671
40-50	702.8	4374
50-60	135.3	4510
60-70	57.78	4567
70-80	26.40	4594
80-90	7.082	4601

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	676	1108
80	3913	1978
75	807	2121
70	717	2298
65	827	2520
60	1313	2890
55	2174	3775
50	5808	7519
45	19660	17928

NOMINAL POWER(W):30W
IMAX(cd)：3069
TOTAL FLUX(lm)：4602.6lm
TEST VOLTAGE(V)：219.7V

Magnetic-WL-2WRTST280D
Magnetic-WL-2WRTST/4'/2strips/80W/RA80/5000K



AVERAGE BEAM ANGLE(50%):81.7 DEG

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	7036	7005	6950	6918	6886
20	6748	6881	6527	6398	6281
30	5981	5838	5606	5360	5226
40	4538	4156	3630	3337	2909
50	1130	1179	3337	522.1	325.3
60	130.4	220.8	522.1	170.7	113.6
70	40.55	80.47	170.7	67.92	38.1
80	51.94	26.13	67.92	24.12	12.55
90	4.268	3.513	24.12	0.1024	0.1389
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumen

Y	Φ zone	Φ total
0-10	668.6	668.6
10-20	1922	2591
20-30	2833	5423
30-40	2997	8420
40-50	1672	10092
50-60	339.8	10432
60-70	128.1	10560
70-80	58.35	10619
80-90	16.99	10636

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	179	232
80	417	405
75	185	457
70	165	508
65	188	559
60	364	641
55	788	837
50	2450	1696
45	6032	4111

NOMINAL POWER(W):80W
IMAX(cd)：7062
TOTAL FLUX(lm)：10640lm
TEST VOLTAGE(V)：219.7V

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Product Specifications

Construction

- Rigid, formed extrude aluminum with high-performance LED boards mounted directly for optimal thermal performance. Diffuse acrylic lens increases uniformity and controls brightness, WL- 2WRTST - series is available in standard 4' configurations for increased flexibility in linear applications

Optics

- Optics lens, secondary optical design anti-glare anti-mosquito design

LED and Light Engine

- LED's are available in 3000K, 3500K, 4000K,5000K, single CCT
- 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 magnetic design on both strips and drivers for easy positioning and alignment .
- Self-tapping Tek screws are included to nonmagnetic surface installation

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.

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