Stack GEN4 Ranger Troffer

WISDOM LIGHT



The Ranger LED center troffer provides a traditional yet modern design with the latest in solid-state lighting technology. Precision optics allow for maximum energy savings and optimal illumination in an ultra-minimalistic shallow recessed fixture. Available with Wattage and CCT Select technologies, which provide ultimate project flexibilities. With higher efficiency and a longer life over fluorescent fixtures, our LED troffers offer substantial energy and maintenance savings.

PRODUCT FEATURES

- Offers standard and custom sizes with precision ventilation slots.
- Optional antimicrobial coatings for critical environments.
- Customizable luminous efficacy and CRI to meet project needs.
- Custom air ventilation openings available for improved airflow.
- Supports integration with emergency backup drivers.
- Compatible with PIR and Bluetooth sensor options.
- High-grade cold-rolled steel with durable powder coating.
- Uniform light distribution without dark spots.

Standard Product Data	Length	Wattage Select	Output Lumen	Nominal Efficacy	CCT Select	Input Voltage	Dimming	CRI	Flicker Index
WL-4TRS2225DUV(XXK-XXK-XXK)-T	2'X2' 603X603mm	15W/20W/25W	1950lm/2600lm/3250lm	130Lm/W	3500K/ 4000K/ 5000K	AC120-277V	0-10V (10%-100%)	>80	<30%
WL-4TRS2236DUV(XXK-XXK-XXK)-T	2'X2' 603X603mm	24W/30W/36W	3120lm/3900lm/4680lm						
WL-4TRS2436DUV(XXK-XXK-XXK)-T	2'X4' 603X1213mm	16W/24W/36W	2080lm/3120lm/4680lm						
WL-4TRS2445DUV(XXK-XXK-XXK)-T	2'X4' 603X1213mm	24W/36W/45W	3120lm/4680lm/5850lm						

* Custom efficacy options available: up to 150 lm/W with CRI 90, and up to 160 lm/W with CRI 80.

Order Guide

Sample Model#: Stack WL-4TRS2225DUV(3500K-4000K-5000K)-T

Stack	WL-4TRS						
Luminaire ID	**Series**	**Length**	**Wattage**	**Dimming**	**Voltage**	**CCT**	**Additional Function**
Stack= Stackable Troffer	WL-4TRS= GEN4 Troffer	22=2'X2'(603X603mm)	15=15W 20=20W 25=25W 24=24W 30=30W 36=36W	D=0-10V (10%-100%)	UV=120-277V	3500K-4000K-5000K-T= 3500K-4000K-5000K Select	Blank=NON [EM]=Emergency Driver [MS]=Motion sensor
		24=2'X4'(603X1213mm)	16=16W 24=24W 36=36W 45=45W				

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Stack GEN4 Ranger Troffer

WISDOM LIGHT

Custom Specifications	Length	Wattage Select	Output Lumen	Nominal Efficacy	CCT Select	Input Voltage	Dimming	CRI	Flicker Index
WL-4TRS6536DUV(XXK-XXK-XXK)-T	1.65'×1.65' 500X500mm	24W/30W/36W	3120lm/3900lm/4680lm	130Lm/W	3500K/ 4000K/ 5000K	AC120-277V	0-10V (10%-100%)	>80	<30%
WL-4TRS6736DUV(XXK-XXK-XXK)-T	1.67'×1.67' 508X508mm	24W/30W/36W	3120lm/3900lm/4680lm						
WL-4TRS4436DUV(XXK-XXK-XXK)-T	2.44'×2.44' 743X743mm	24W/30W/36W	3120lm/3900lm/4680lm						
WL-4TRS4636DUV(XXK-XXK-XXK)-T	2.46'×2.46' 750X750mm	24W/30W/36W	3120lm/3900lm/4680lm						
WL-4TRS8736DUV(XXK-XXK-XXK)-T	4.87'×1.63' 1485X495mm	24W/30W/36W	3120lm/3900lm/4680lm						
WL-4TRS4936DUV(XXK-XXK-XXK)-T	4.92'×1.65' 1500X500mm	24W/30W/36W	3120lm/3900lm/4680lm						

Order Guide

Sample Model#: Stack WL-4TRS6524DUV(3500K-4000K-5000K)-T

Stack	WL-4TRS						
Luminaire ID	**Series**	**Length**	**Wattage**	**Dimming**	**Voltage**	**CCT**	**Additional Function**
Stack= Stackable Troffer	WL-4TRS= GEN4 Troffer	65= 1.65'x1.65'(500X500mm) 67= 1.67'x1.67'(508X508mm) 44= 2.44'x2.44'(743X743mm) 46= 2.46'x2.46'(750X750mm) 87= 4.87'x1.63'(1485X495mm) 49= 4.92'x1.65'(1500X500mm)	24=24W 30=30W 36=36W	D=0-10V (10%-100%)	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






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Product Specifications

Construction

- Durable, space-efficient housing at just 2.16" depth, crafted from robust 22-gauge cold-rolled steel with a powder-coated finish for superior strength, corrosion resistance, and flawless appearance.
- Supports standard and custom sizes with optional precision ventilation slots to optimize thermal management.
- Generously sized access plate ensures quick and hassle-free supply connections.

Optics

- Extruded stripe PC diffuser provides excellent light diffusion and glare control.
- Three LED boards ensure uniform brightness without dark spots.

Finish

- Fixture housing and back reflector are high reflectance white
- Electrostatically applied polyester powder coat paint for dur ability and luminous uniformity

LED and Light Engine

- LED's are available in 3500K, 4000K 5000K 3 CCT Select
- Custom luminous efficacy: up to 150 lm/W with CRI 90, or up to 160 lm/W with CRI 80.
- Long-life LED system coupled with electrical driver to deliver optimal performance
- Projected life is 100,000 at 75% lumen output
- Typical CRI ≥ 80, CRI ≥ 90 available
- Optional antimicrobial coating for specialized environments.

Mounting

- Standard flange design compatible with most lay-in ceilings.
- Integral pry-out tabs secure luminaire to ceiling grid from above.
- Tie-in locations provided on all corners for wire safety.

Multiple options

- Enables Power over Ethernet (PoE) integration for simplified power and data connectivity
- Compatible with a variety of emergency power sources and se nsors.

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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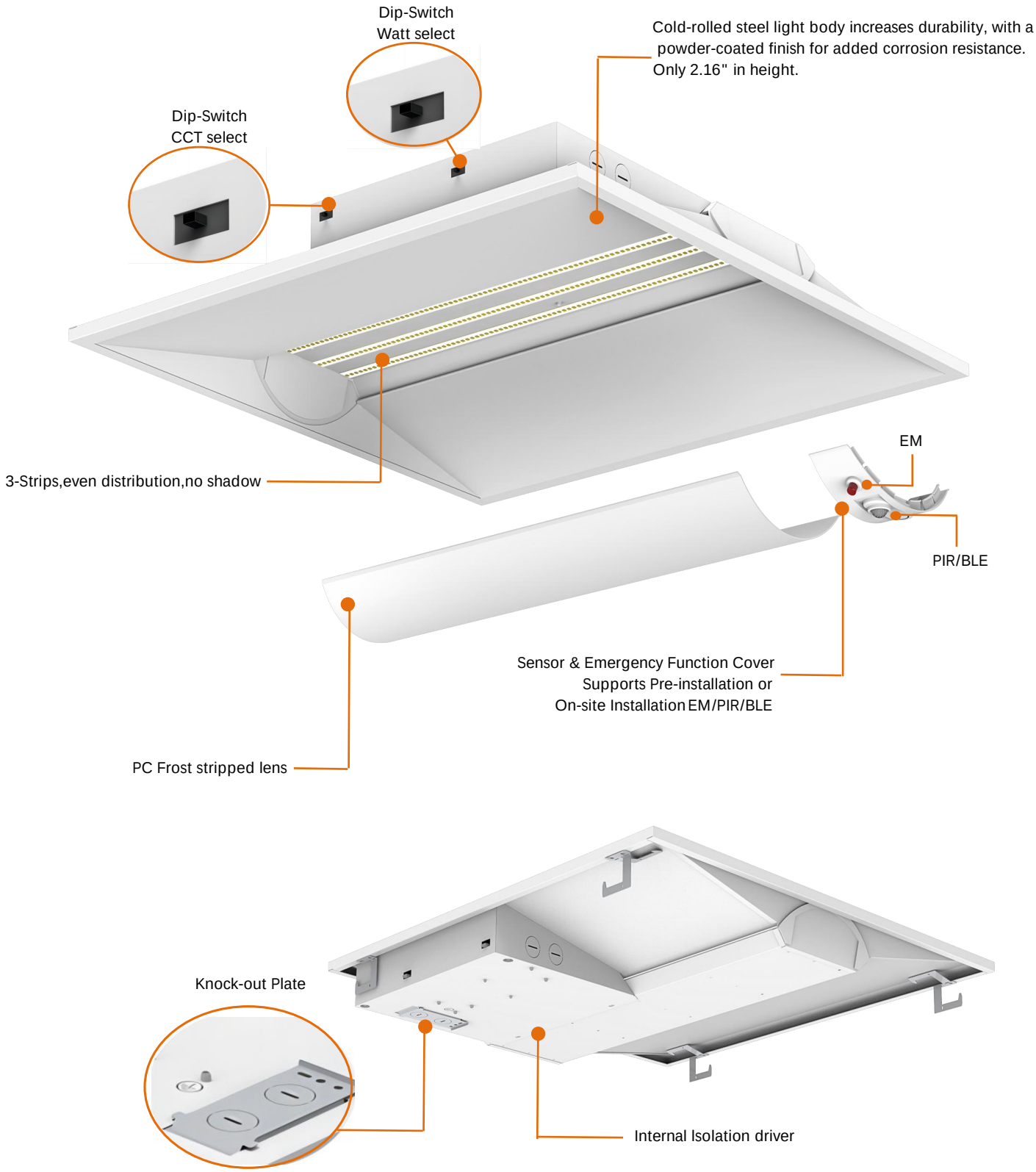
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Stack GEN4 Ranger Troffer

2X2,2X4

WISDOM LIGHT

Features



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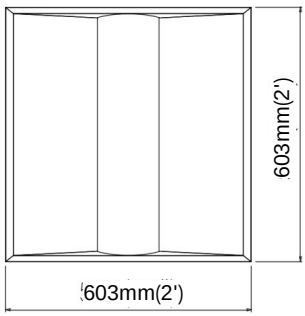
Stack GEN4 Ranger Troffer

WISDOM LIGHT

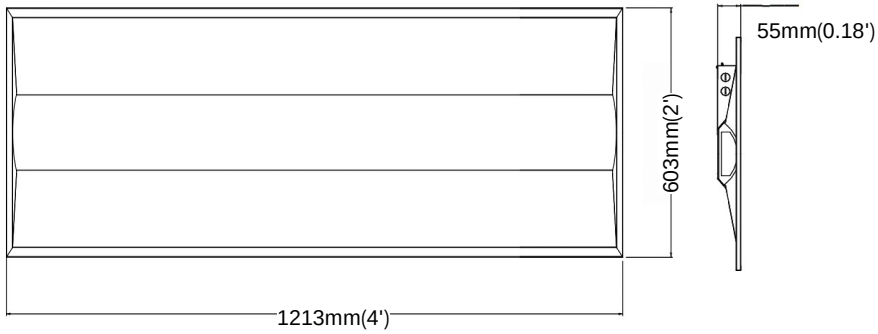
Dimension

Standard sizes

603*603 - 15W/20W/25W/24W/30W/36W

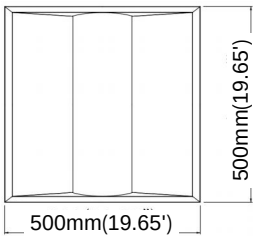


1213*603 - 16W/24W/36W;24W/36W/45W

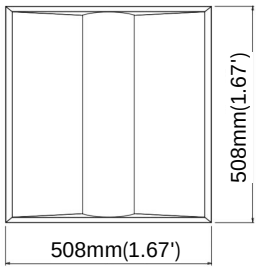


Custom sizes

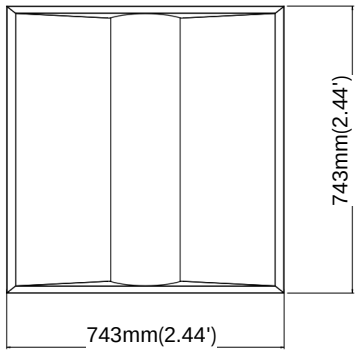
500*500 - 24W/30W/36W



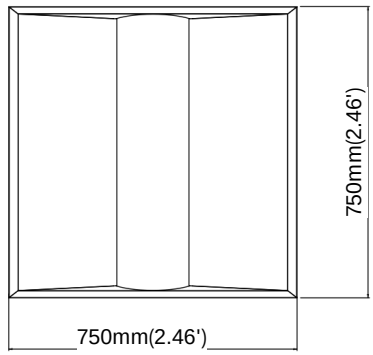
508*508 - 24W/30W/36W



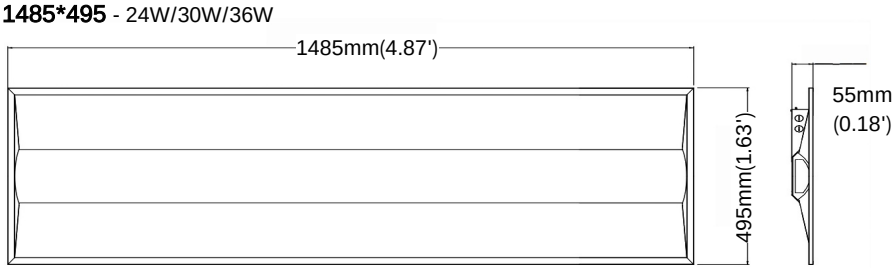
743*743 - 24W/30W/36W



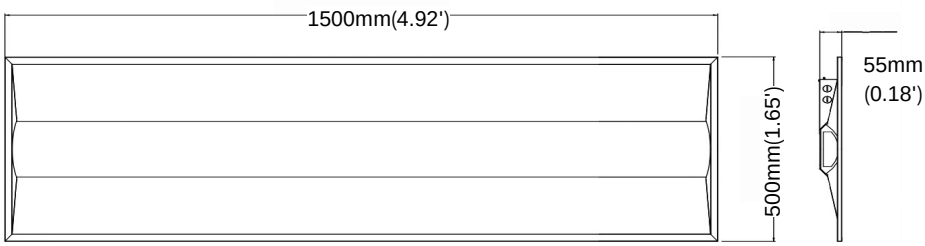
750*750- 24W/30W/36W



1485*495 - 24W/30W/36W



1500*500 - 24W/30W/36W



Model	Length	Widthl	Height
WL-4TRS2225DUV	603mm (2')	603mm (2')	55mm (0.18')
WL-4TRS2436DUV	1213mm (4')	603mm (2')	55mm (0.18')
WL-4TRS6536DUV	500mm (19.65')	500mm (19.65')	55mm (0.18')
WL-4TRS6736DUV	508mm (1.67')	508mm (1.67')	55mm (0.18')
WL-4TRS4436DUV	743mm (2.44')	743mm (2.44')	55mm (0.18')
WL-4TRS4636DUV	750mm (2.46')	750mm (2.46')	55mm (0.18')
WL-4TRS4836DUV	1485mm (4.87')	495mm (1.63')	55mm (0.18')
WL-4TRS4936DUV	1500mm (4.92')	500mm (1.65')	55mm (0.18')

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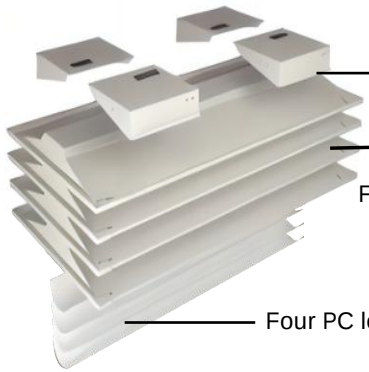
Stack GEN4 Ranger Troffer

2X2,2X4

WISDOM LIGHT

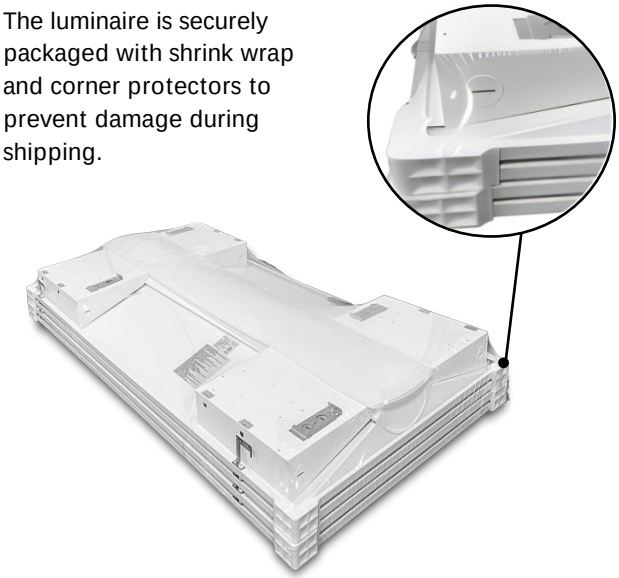
How to Stack Pack

1

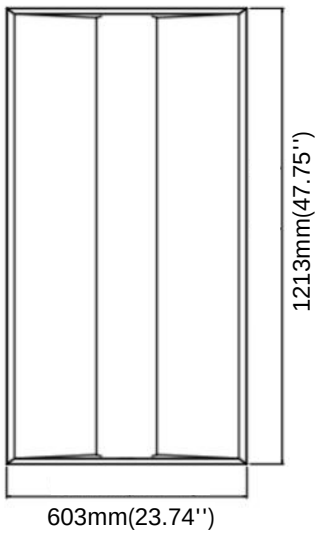


2

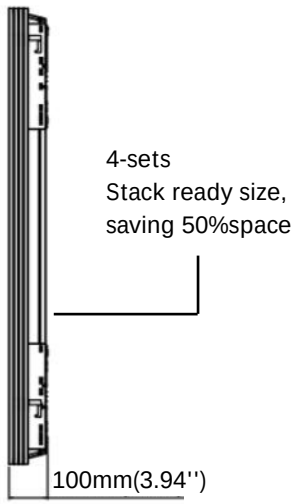
The luminaire is securely packaged with shrink wrap and corner protectors to prevent damage during shipping.



3



4





Cartons support customization

Packing Information :

Model Number	G. W. /CTN	Carton Dimensions	PCS/CTN	40#HQ Qty
2×2 Stack Pack	10.6 Kg	650×650×120mm	4 Pcs	5430 Pcs
2×4 Stack Pack	20 Kg	1250×650×120mm	4 Pcs	2700 Pcs
2×2 Finished Pack	6.5 Kg	665×665×135mm	2 Pcs	2250 Pcs
2×4 Finished Pack	11.5 Kg	1270×665×135 mm	2 Pcs	1150 Pcs

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Stack GEN4 Ranger Troffer

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°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
-RoHS compliant
-Emergency 1.5H

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.

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

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Stack GEN4 Ranger Troffer

2X2,2X4

WISDOM LIGHT

Customize size
· 500X500mm or 508X508mm or 485x485mm
· 1500x500mm or 1485X495mm
· 743X743mm or 750X750mm

Available with four or five DIP switch settings.

High efficiency 150Lm/W or 160Lm/W

High CRI 90 or 98

Customize Service

Coated with antimicrobial spray, suitable for healthcare and specialized environments. It helps inhibit the growth of bacteria and microorganisms, maintaining a sterile and clean lighting area.

Report NO. : 2024FM04845R01D

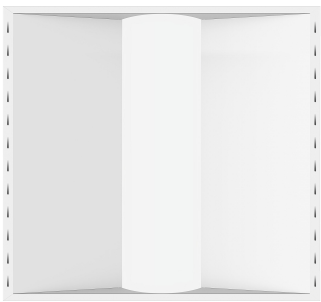
The test microorganism	The average plate count of blank control sample recovered over 24h(cfw/piece)	The average plate count of sample recovered over 24h (cfu/piece)	Antibacterial rate（%）
Escherichia coli AS1.90	$7.8x10^6$	＜20	＞99.99

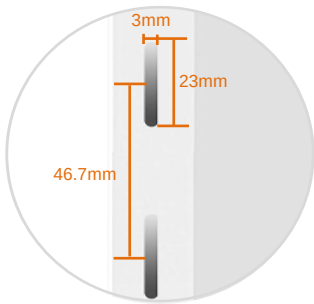
Compatible with Power over Ethernet (PoE) systems for integrated power and data delivery

Custom air ventilation openings available for HVAC integration, improving airflow around the fixture to maintain balanced room temperature and enhance overall comfort and energy efficiency.

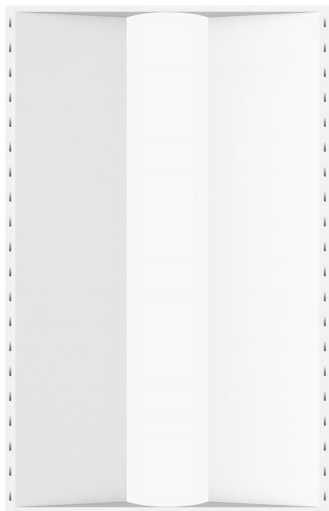
Two design options are provided to suit different project needs.

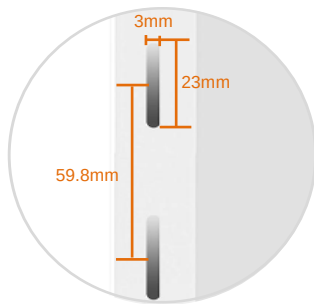
2×2 Fixture
Slot opening size: 23mm × 3mm
Slot spacing: 46.7mm
Quantity: 12 slots per side, total 24 slots





2×4 Fixture
Slot opening size: 23mm × 3mm
Slot spacing: 59.8mm
Quantity: 20 slots per side, total 40 slots

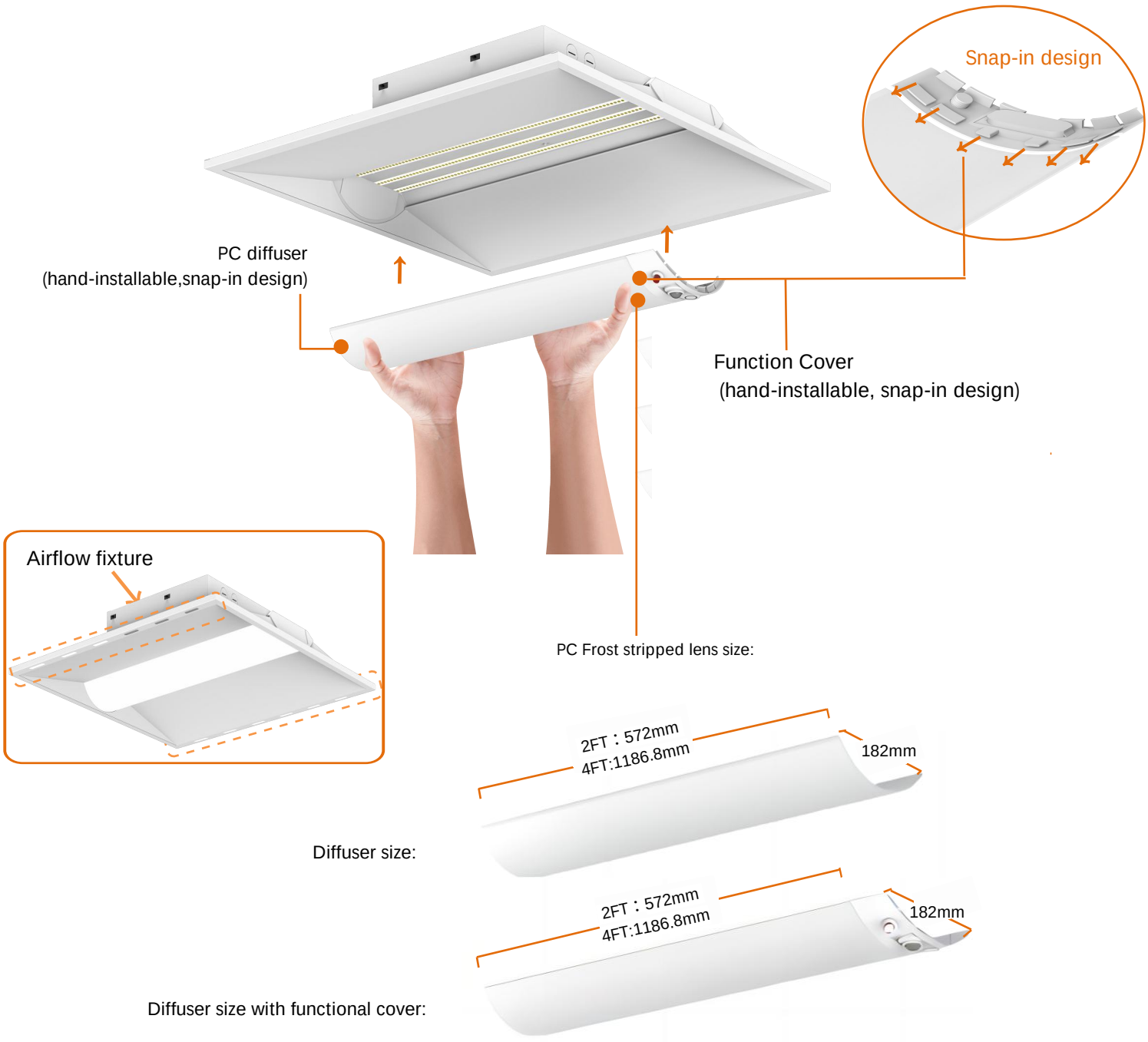




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How to install the cap-ready lens?



Stack GEN4 Ranger Troffer

2X2,2X4

WISDOM LIGHT

Multiple options - Sensor & Emergency Function Cover

CAP-CA



Indicate Light & Test Switch Cover [Customize]

CAP-S [Default shipping specification]



Blank (lid only)

Emergency & Sensor can be installed after removing the cover

CAP-CB

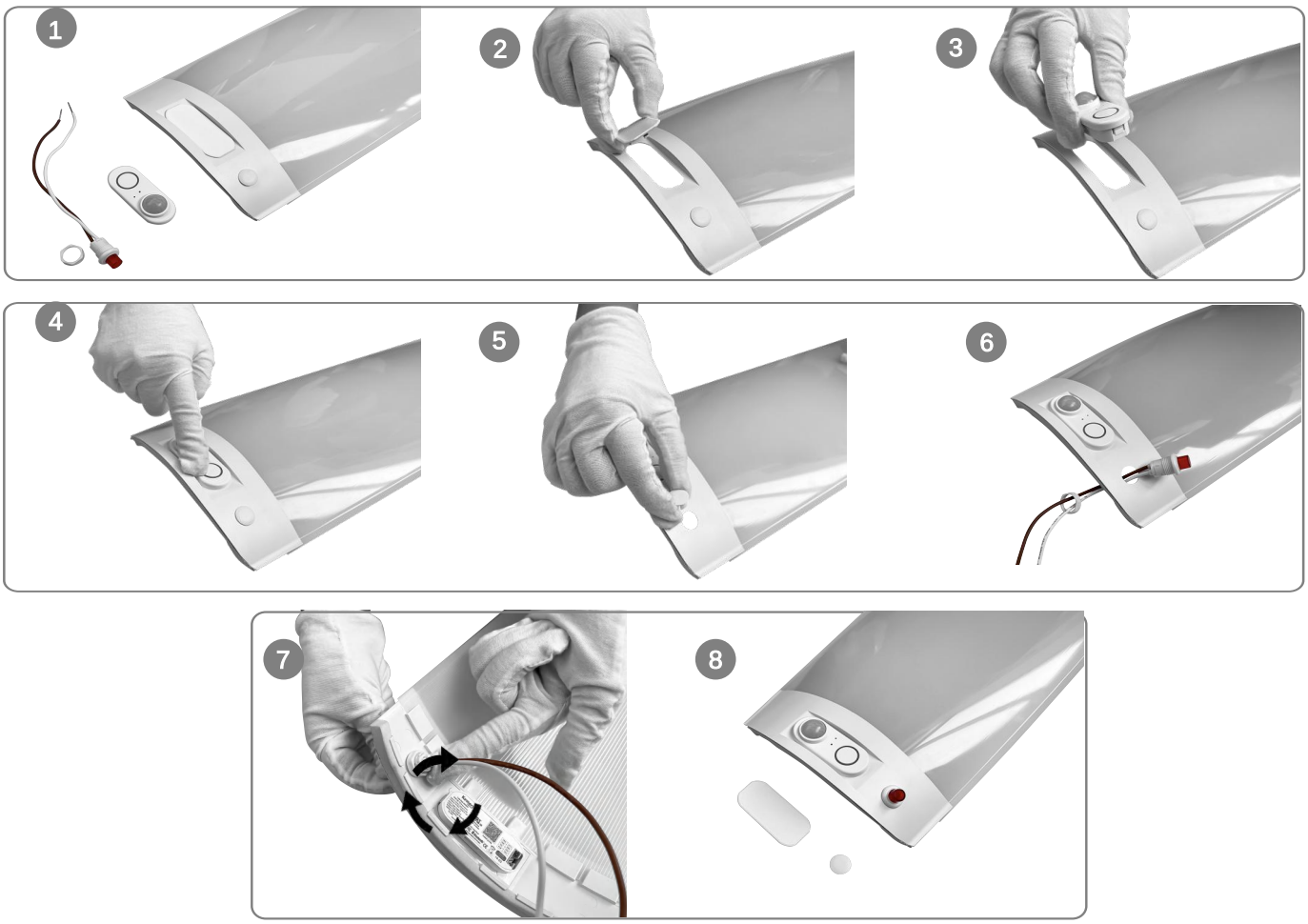


Bluetooth / PIR Sensor Cover [Customize]



Emergency & Sensor Cover

Accessory Installation Diagram



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Stack GEN4 Ranger Troffer

2X2,2X4

WISDOM LIGHT

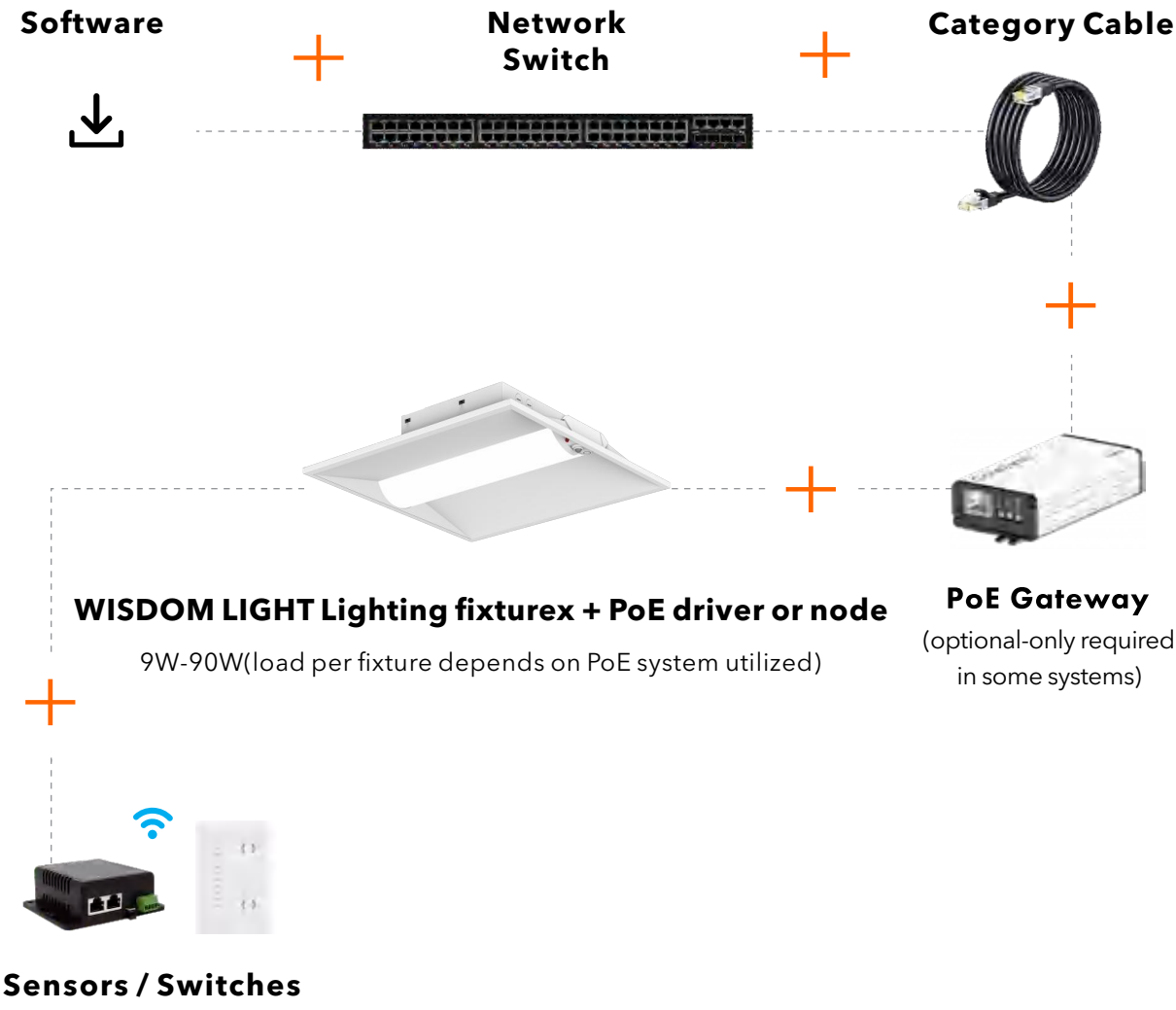
Supports Power over Ethernet (PoE) systems

POE Lighting System Overview:

POE (Power over Ethernet) lighting uses Ethernet technology to deliver both power and data to LED light fixtures through a single network cable. This allows for easy connection, monitoring, and control of lighting in smart buildings.

With POE lighting, installation becomes simpler and more cost-effective, as only one cable is needed for both power and control. It significantly reduces installation and operating costs, while helping building owners achieve wellness and sustainability goals.

- Our light fixtures are fully compatible with PoE systems, allowing both power and data to be delivered through a single Ethernet cable, simplifying installation and reducing wiring complexity.
- When connected to a PoE system, our fixtures leverage smart controls like dimming and scheduling to reduce energy consumption and lower operating costs.
- POE integration enables remote control, dimming, and scene management, offering enhanced flexibility and easy adjustments to meet evolving needs.
- POE compatibility means only one cable is needed for both power and data, simplifying installation. The system is easily scalable, allowing for future expansion without additional wiring.



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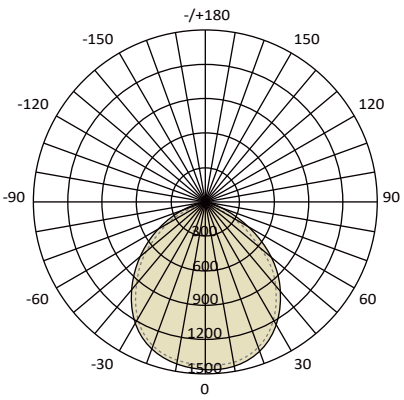
2x2,2x4

WISDOM LIGHT

Performance

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

Stack T- WL-4TRS2224-840
Stack T- WL-4TRS/2X2'/24W/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				

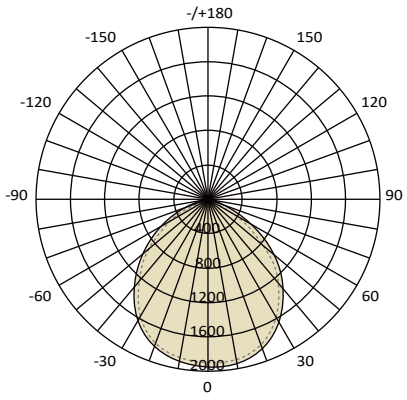
Zonal Lumens

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-4TRS2445-840
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

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