



FEATURES

Construction

- Whole structure heating dissipation design with efficient thermal conduction, radiation and convection.
- Unique patented IP68 LED light engines.
- Tool-less onsite replacement of light engines greatly reduces maintenance cost.

Electrical

- Flexible to reach desired power consumption by choosing appropriate light engines.

Optical

- Ergonomic and specialized lighting distributions.

Mounting

- Bracket adjustable within $\pm 60^\circ$ maximum.

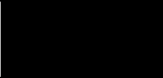
APPLICATIONS

- Tunnel lighting (tunnel, underpass, corridor....)

SPECIFICATION

Input Voltage:	100 ~ 277Vac
Input Frequency:	50 / 60Hz
Power Factor:	0.95
Surge Protection Level:	10kV line-earth
Working Environment:	-40°C~ +50°C, 10% ~ 90% RH
CCT:	3000K-5700K
CRI:	≥ 70
Housing	Extrusion
IP Rating of LED Engine	IP68
IP Rating of LED Driver	IP67
Impact Resistance	IK08
Warranty	5 Years Limited

FINISHING COLORS

	Gray		Black
	White		Blue



PHOTOS

ORDERING INFORMATION

Example: TS2H-3-180-M8B-CA-63-1390-7040-LU-MO-GY

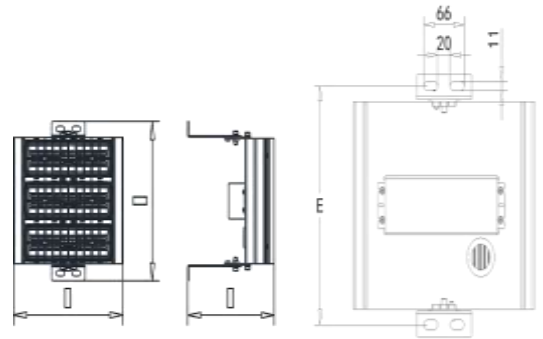
Luminaire Type	Module Qty	System Power	LED Module		LED Package	Cable Standard	LED Qty per Module		
TS Tunnel light	1 1 module	40 40W	M1A	M1A module	A 3535	A CCC+VDE	18	18pcs	
	2 2modules	50 50W	M2A	M2A module		C PSE			
2H 2H series	3 3 modules	60 60W	M8B	M8B module	C 3030	H UL	63	63pcs	
	4 4 modules					X Others			
		240 240W	M16B	M16B module	B 5050		18	18pcs	
							28	28pcs	
Lens Code		CRI & CCT		Brand of LEDs		Driver Brand		Bracket Color	
1502	Type I Short Vertical	7030	Ra≥70, CCT 3000K		LU	LUMILEDS	MO MOSO	BK	Black
3101	Type I Short Vertical	7040	Ra≥70, CCT 4000K		CM	LUMILEDS	IN INVENTRONICS	WH	White
1010	110degree	7050	Ra≥70, CCT 5000K		Customized		PH PHILIPS	BU	Blue
3590	90 degree	7057	Ra≥70, CCT 5700K		SS	SAMSUNG	MW MEAN WELL	GY	Gray
					NI	NICHIA	XX Others		
2322	Type II Short Vertical				CR	CREE			
5390	90 degree				LN	LUMINUS			
1310	Lambertian type				XX	Others			
3108	Type II Short Vertical								
2190	90 degree								
2310	Lambertian type								

PERFORMANCE

Model	Power (W)	Module M1A/M2A-VA-18		Module M8B-VC-63		Module M16B-VB-18		Module M16B-VB-28	
		Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)	Efficacy (lm/W)	Flux (lm)
TS2H-1	40	130	5200	135	5400	152	6080	168	6720
	50	122	6100	130	6500	145	7250	163	8150
	60	117	7020	122	7320	133	7980	155	9300
TS2H-2	80	137	10960	140	11200	160	12800	175	14000
	100	130	13000	135	13500	150	15000	170	17000
	120	122	14640	127	15240	140	16800	163	19560
TS2H-3	120	137	16440	140	16800	160	19200	175	21000
	150	130	19500	135	20250	150	22500	170	25500
	180	122	21960	127	22860	140	25200	163	29340
TS2H-4	160	137	21920	140	22400	160	25600	175	28000
	200	130	26000	135	27000	150	30000	170	34000
	240	122	29280	127	30480	140	33600	163	39120

PRODUCT DIMENSIONS

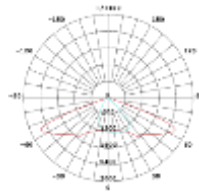
Model	L(mm)	W(mm)	H(mm)	N.M.(kg)	E (mm)
TS2H-1	140	300	235	2.4	111
TS2H-1 (wide)	155	300	235	2.5	126
TS2H-2	225	300	235	3.8	196
TS2H-3	305	300	235	5.1	276
TS2H-4	385	300	235	6.0	356



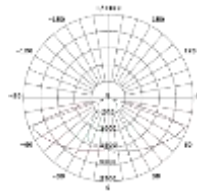
Notes:1. Typical values above. Tolerance of N.W.: 5%. Tolerance of L/W/H: ± 5 mm. Tolerance of E and mounting holes dimensions ± 0.5 mm:

TYPICAL DISTRIBUTIONS

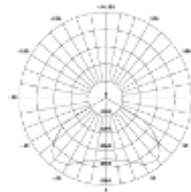
Module
M1A



T1SV1502

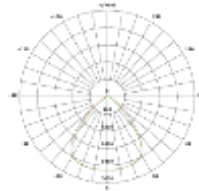


T1SV3101



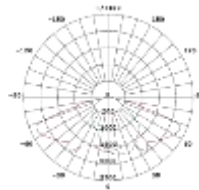
110D1010

Module
M2A

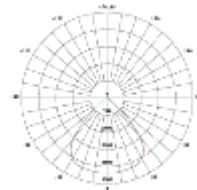


90D3590

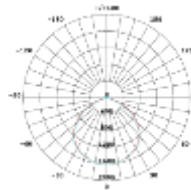
Module
M8B



T2SV2322

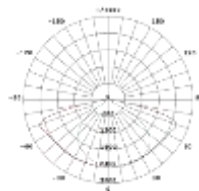


90D5390

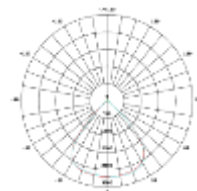


LBN1310

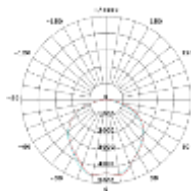
Module
M16B



T2SV3108



90D2190



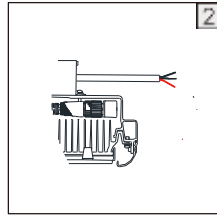
LBN2310

INSTALLATION AND MAINTENANCE

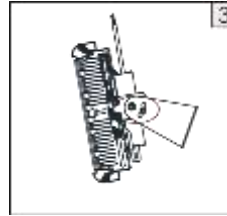
INSTALLATION



1. Mount the luminaire onto the wall, and fixate it by tightening up screws.
(recommend M10 screws)

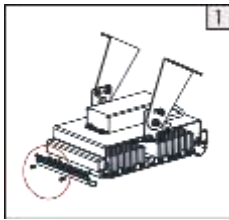


2. Connect the wires to L, N, and G of AC input. Make sure it grounded sufficiently.

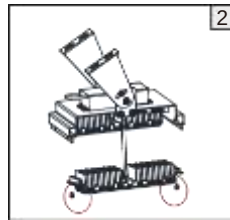


3. Loosen the screws on the brackets at side to adjust the fixture to a right angle. Tighten up the screws.

MAINTENANCE



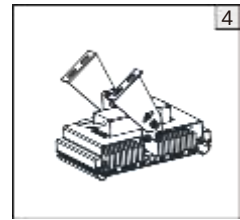
1. Undo the screws to remove the side plates.



2. Undo the screws on ends of the module.



3. Disconnect the cable. Replace the module.



4. Connect the cable and tighten up the connectors. Fixate the new module with screws tightened up. Assemble the side plates with the screws.

CABLE CONNECTION



1. Connect the male and female connectors by aligning the indicative arrow on them.



2. Hold the nut on one terminal still, meanwhile, rotating clockwise till the one on the other terminals is tightened up. Otherwise the waterproof performance might be affected.

WIRING

Power Supply End	Earth wire	Neutral wire	Live wire
Fixture End	Yellow-green lead	Blue lead	Brown lead
	Green lead	White lead	Black lead

CAUTION

Disconnect or turn off power before installation, maintenance and wiring.

Cable connection must be insulated and waterproof.

For luminaires with glass cover: the cover is made of tempered glass which shatters into small pieces without sharp edges when it breaks. Application condition: -30°C~100°C; maximum temperature rise $\Delta t \leq 60^\circ\text{C}$.

The light source of this luminaire is not replaceable. When the light source's lifetime comes to an end, it is the whole luminaire that should be replaced.

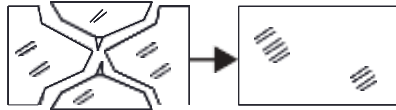
INSTALLATION AND MAINTENANCE

Warning: Danger! Electric shock risk!

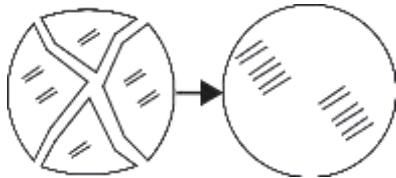
(via IEC 60417-6042 (2011-11))



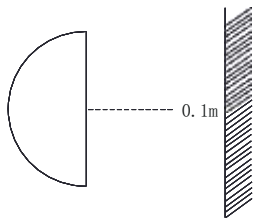
For luminaires with glass cover: The broken cover should be replaced. Rectangle



Round



Minimum distance from the light source to the illuminated object: 0.1m.



The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling

REMARKS:

- 1.This luminaire uses permanent connection on power supply with flexible cable and wires (60245 IEC57). Sufficient length of cable is reserved for connection to AC power. Protection over the connection joint and elimination of tensile force there should be ensured. efficient.
- 2.This luminaire uses type Z attachment: the external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.
- 3.Wiring: the connection to AC power should be operated on terminal blocks in a wiring box with a degree of protection at least equivalent to the luminaire, and there should be devices to fixate wires.
- 4.The luminaire can be mounted onto ordinary combustible surfaces.