



TF2C



TF2H



## APPLICATIONS

### TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY

- Factory facilities (plant, workshop, warehouse....)
- Area lighting (exhibition hall, convention center, garage....)
- Sports facilities (gym, club...)

### TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY

- Large industrial hall (production, processing, machining....)
- Large indoor area (warehouse, logistic hall, supermarket, sport club, exhibition center...)

## SPECIFICATION

(TF2C, TF2H)

|                         |                            |
|-------------------------|----------------------------|
| Input Voltage:          | 100 ~ 277Vac               |
| Input Frequency:        | 50 / 60Hz                  |
| Power Factor:           | 0.95                       |
| Surge Protection Level: | 10kV line-earth            |
| Working Environment:    | -40°C~ +45°C, 10% ~ 90% RH |
| CCT:                    | 3000K, 4000K, 5000K, 5700K |
| CRI:                    | ≥70                        |
| Housing:                | Extrusion                  |

|                               |                 |
|-------------------------------|-----------------|
| IP Rating of LED Light Engine | IP68            |
| IP Rating of LED Driver:      | IP67            |
| Warranty:                     | 5 Years Limited |

## FINISHING COLORS

|                                                                                    |       |                                                                                     |       |
|------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------|
|  | Gray  |  | Black |
|  | White |  | Blue  |

## 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 available for various area lighting.
- Angle adjustable within  $\pm 60^\circ$  with mounting brackets.

## PHOTOS

(TF2C)



(TF2H)



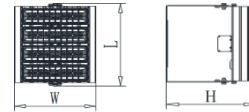
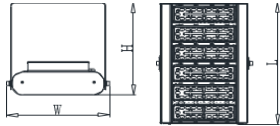
### ORDERING INFORMATION

Example: TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY , TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY

| Luminaire Type       | Module Qty |                 | System Power |           | LED Module |             | LED Package |               | Cable Standard |              | LED Qty per Module |               |       |
|----------------------|------------|-----------------|--------------|-----------|------------|-------------|-------------|---------------|----------------|--------------|--------------------|---------------|-------|
| TF High bay light    | 1          | 1 module        | 40           | 40W       | M1A        | M1A module  |             | A 3535        | A              | CCC+VDE      | 18                 | 18pcs         |       |
| 2H 2H series         | 2          | 2 modules       | 50           | 50W       | M2A        | M2A module  |             |               | C              | PSE          |                    |               |       |
|                      | 3          | 3 modules       | 60           | 60W       |            |             |             |               | H              | UL           |                    |               |       |
|                      |            |                 |              |           | M8B        | M8B module  |             | C 3030        | X              | Others       | 63                 | 63pcs         |       |
|                      | 7          | 7 modules       | 400          | 400W      | M16B       | M16B module |             | B 5050        |                |              | 18                 | 18ps          |       |
|                      | 8          | 8 modules       | 480          | 480W      |            |             |             |               |                |              | 28                 | 28pcs         |       |
| Lens Code            |            |                 |              | CRI & CCT |            |             |             | Brand of LEDs |                | Driver Brand |                    | Bracket Color |       |
| 1010 110degree       |            |                 |              | 7030      |            | Ra≥70,      | CCT 3000K   | LU            | LUMILEDS       | IN           | INVENTRONICS       | BK            | Black |
| 3040 Type Vs Short   |            |                 |              | 7040      |            | Ra≥70,      | CCT 4000K   | CM            | LUMILEDS       | MO           | MOSO               | WH            | White |
| 1908 12 degree       | 3560       | 60 degree       | 7050         |           | Ra≥70      | CCT 5000K   |             | Customized    | PH             | PHILIPS      | BU                 | Blue<br>Gray  |       |
| 3725 25 degree       | 3590       | 90 degree       | 7057         |           | Ra≥70,     | CCT 5700K   | SS          | SAMSUNG       | MW             | MEAN WELL    | GY                 |               |       |
| 3540 40 degree       | 3030       | 110x40 degree   |              |           |            |             | NI          | NICHIA        | XX             | Others       |                    |               |       |
| 1325 25 degree       | 5390       | 90 degree       |              |           |            |             | CR          | CREE          |                |              |                    |               |       |
| 5340 40 degree       | 1310       | Lambertian type |              |           |            |             |             | LN            | LUMINUS        |              |                    |               |       |
| 2360 60 degree       |            |                 |              |           |            |             |             | XX            | Others         |              |                    |               |       |
| 3125 25 degree       | 2114       | Type V Short    |              |           |            |             |             |               |                |              |                    |               |       |
| 3140 40 degree       | 2040       | Type V Short    |              |           |            |             |             |               |                |              |                    |               |       |
| 3160 60 degree       | 2212       | Type II Short   |              |           |            |             |             |               |                |              |                    |               |       |
| 2190 90 degree       | 1113       | Type III Short  |              |           |            |             |             |               |                |              |                    |               |       |
| 2211 90x40 degree    | 2501       | 60x60 degree    |              |           |            |             |             |               |                |              |                    |               |       |
| 2310 Lambertian type | 2502       | 80x80 degree    |              |           |            |             |             |               |                |              |                    |               |       |
| 3504 80x40 degree    | 2503       | 80x50 degree    |              |           |            |             |             |               |                |              |                    |               |       |
| 3505 70x30 degree    |            |                 |              |           |            |             |             |               |                |              |                    |               |       |

### PRODUCT DIMENSIONS

Example: TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY , TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY



| Model  | L (mm) | W (mm) | H (mm) | N.W (kg) |
|--------|--------|--------|--------|----------|
| TF2C-1 | 95     | 360    | 200    | 3.6      |
| TF2C-2 | 175    | 360    | 200    | 4.7      |
| TF2C-3 | 255    | 360    | 260    | 6.0      |
| TF2C-4 | 335    | 360    | 260    | 7.3      |
| TF2C-5 | 415    | 360    | 360    | 9.5      |
| TF2C-6 | 495    | 360    | 360    | 10.4     |
| TF2C-7 | 575    | 360    | 360    | 11.9     |
| TF2C-8 | 655    | 360    | 360    | 3.1      |

| Model         | L (mm) | W (mm) | H (mm) | N.W (kg) |
|---------------|--------|--------|--------|----------|
| TF2H-1        | 105    | 300    | 290    | 2.4      |
| TF2H-1 (wide) | 120    | 300    | 290    | 2.5      |
| TF2H-2        | 190    | 300    | 290    | 3.8      |
| TF2H-3        | 270    | 300    | 290    | 5.2      |
| TF2H-4        | 350    | 300    | 290    | 6.2      |
| TF2H-5        | 430    | 300    | 355    | 11.2     |
| TF2H-6        | 480    | 300    | 355    | 12.5     |
| TF2H-7        | 560    | 300    | 355    | 14.3     |
| TF2H-8        | 640    | 300    | 355    | 15.6     |

Notes: Typical values above. Actual N.W. is subject to tolerance of 5%. Dimension tolerance: ±5mm

### PERFORMANCE

Example: TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY , TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY

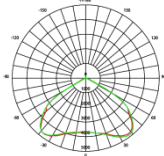
| 28 Model | Power<br>(W) | Module M1A/M2A-VA-18 |              | Module M8B-VC-63   |              | Module M16B-VB-18  |              | Module M16B-VB-    |              |
|----------|--------------|----------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|--------------|
|          |              | Efficacy<br>(lm/W)   | Flux<br>(lm) | Efficacy<br>(lm/W) | Flux<br>(lm) | Efficacy<br>(lm/W) | Flux<br>(lm) | Efficacy<br>(lm/W) | Flux<br>(lm) |
| TF2C-1   | 40           | 130                  | 5200         | 135                | 5400         | 152                | 6080         | 168                | 6720         |
| TF2H-1   | 50           | 122                  | 6100         | 130                | 6500         | 145                | 7250         | 163                | 8150         |
|          | 60           | 117                  | 7020         | 122                | 7320         | 133                | 7980         | 155                | 9300         |
| TF2C-2   | 80           | 137                  | 10960        | 140                | 11200        | 160                | 12800        | 175                | 14000        |
| TF2H-2   | 100          | 130                  | 13000        | 135                | 13500        | 150                | 15000        | 170                | 17000        |
|          | 120          | 122                  | 14640        | 127                | 15240        | 140                | 16800        | 163                | 19560        |
| TF2C-3   | 120          | 137                  | 16440        | 140                | 16800        | 160                | 19200        | 175                | 21000        |
| TF2H-3   | 150          | 130                  | 19500        | 135                | 20250        | 150                | 22500        | 170                | 25500        |
|          | 180          | 122                  | 21960        | 127                | 22860        | 140                | 25200        | 163                | 29340        |
| TF2C-4   | 160          | 137                  | 21920        | 140                | 22400        | 160                | 25600        | 175                | 28000        |
| TF2H-4   | 200          | 130                  | 26000        | 135                | 27000        | 150                | 30000        | 170                | 34000        |
|          | 240          | 122                  | 29280        | 127                | 30480        | 140                | 33600        | 163                | 39120        |
| TF2C-5   | 200          | 137                  | 27400        | 140                | 28000        | 160                | 32000        | 175                | 35000        |
| TF2H-5   | 250          | 130                  | 32500        | 135                | 33750        | 150                | 37500        | 170                | 42500        |
|          | 300          | 122                  | 36600        | 127                | 38100        | 140                | 42000        | 163                | 48900        |
| TF2C-6   | 240          | 137                  | 32880        | 140                | 33600        | 160                | 38400        | 175                | 42000        |
| TF2H-6   | 300          | 130                  | 39000        | 135                | 40500        | 150                | 45000        | 170                | 51000        |
|          | 360          | 122                  | 43920        | 127                | 45720        | 140                | 50400        | 163                | 58680        |
| TF2C-7   | 280          | 137                  | 38360        | 140                | 39200        | 160                | 44800        | 175                | 49000        |
| TF2H-7   | 350          | 130                  | 45500        | 135                | 47250        | 150                | 52500        | 170                | 59500        |
|          | 420          | 122                  | 51240        | 127                | 53340        | 140                | 58800        | 163                | 68460        |
| TF2C-8   | 320          | 137                  | 43840        | 140                | 44800        | 160                | 51200        | 175                | 56000        |
| TF2H-8   | 400          | 130                  | 52000        | 135                | 54000        | 150                | 60000        | 170                | 68000        |
|          | 480          | 122                  | 58560        | 127                | 60960        | 140                | 67200        | 163                | 78240        |

Note: 1. Values shown are subject to  $\pm 5\%$ – $\pm 8\%$  tolerance. 2. Efficacy of Ra70 3000K is 5% lower than other CCT $\geq$ 4000K.

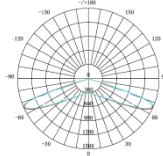
### TYPICAL DISTRIBUTIONS

Example: TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY , TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY

Module  
M1A

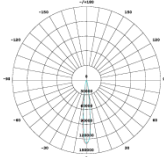


110D1010

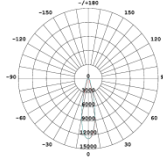


T5S3040

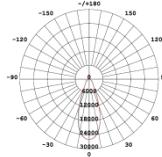
Module  
M2A



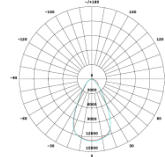
12D1908



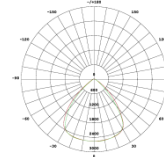
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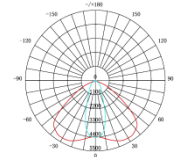
40D3540



60D3560

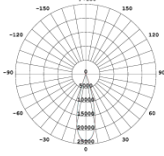


90D3590

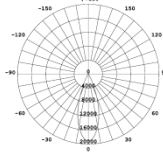


110x40D3030

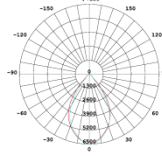
Module  
M8B



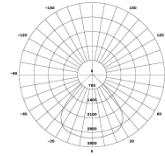
25D1325



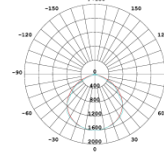
40D5340



60D2360

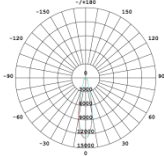


90D5390

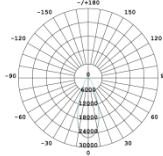


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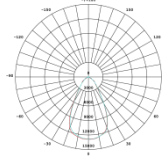
Module  
M16B



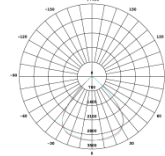
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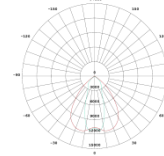
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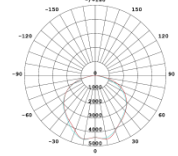
60D3160



90D2190

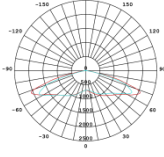


90Dx40D2211

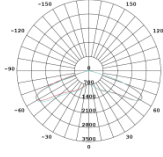


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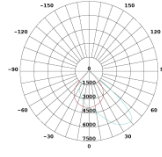
Module  
M16B



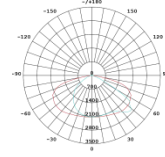
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T5S2040

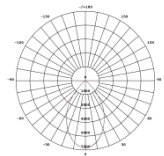


T2S2212

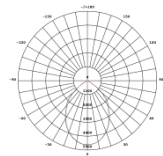


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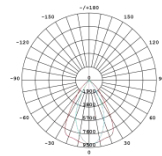
Module  
M16B



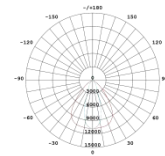
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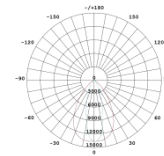
80Dx80D2502



80Dx50D2503



80Dx40D3504

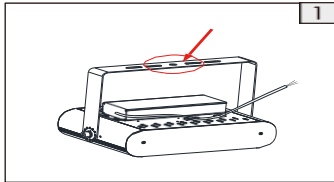


70Dx30D3505

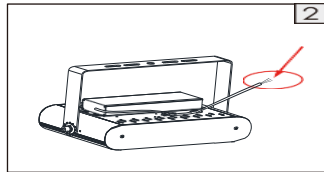
### INSTALLATION AND MAINTENANCE

Example: TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY

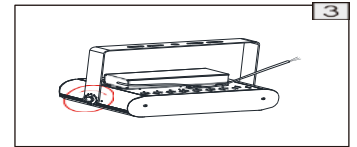
#### INSTALLATION



1. Mount the luminaire onto the ceiling or wall.  
(recommend M10 screws)

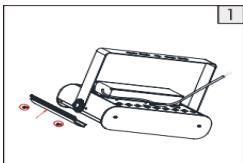


2. Connect to the L, N, and G wires of AC input correctly.

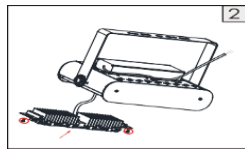


3. Loosen the screws at sides on bracket to adjust the fixture to a right angle. Then tighten up the screws.

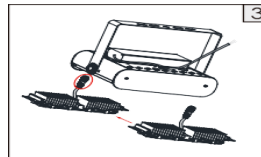
#### MAINTENANCE



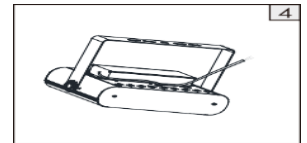
1. Undo the screws to remove the two side beam covers.



2. Undo the screws on ends of the module to be replaced, and plug it out.



3. Undo the cable connectors. Replace with a new module.

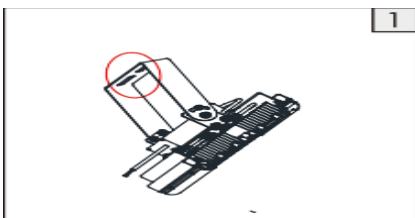


4. Connect the cable, fixate the new module with screws. Install the side beam covers back.

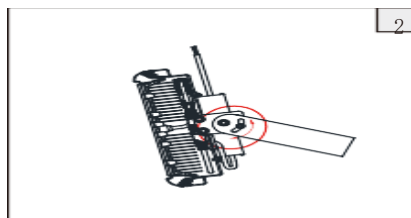
### INSTALLATION AND MAINTENANCE

Example: TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY

#### INSTALLATION

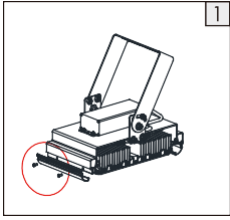


1. Mount the luminaire to the ceiling or wall. (recommend M10 screws)  
Connect the wires to L, N, and G of AC input.

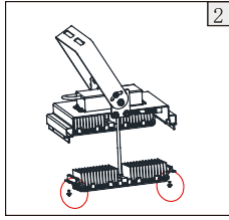


2. Loosen the screws on the bracket at sides to adjust the fixture to a right angle. Tighten up the screws.

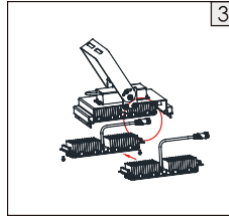
### MAINTENANCE



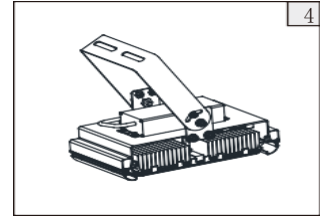
1. Undo the screws to remove the side plates.



2. Undo the screws on ends of the module.



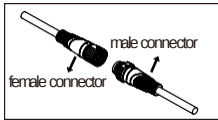
3. Disconnect the cable. Replace the module.



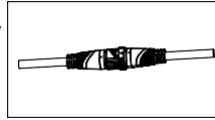
4. Connect the cable and tighten up the connectors. Fixate the new module with screws tightened up. Assemble the side plates with the screws.

### CABLE CONNECTORS

Example: TF2C-4-240-M8B-CA-63-2360-7040-LU-MO-GY , TF2H-4-240-M8B-CA-63-2360-7040-LU-MO-GY



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  $\Delta t 60^{\circ}\text{C}$ .
- 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.

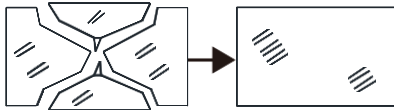
Warning: Danger! Electric shock risk!

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

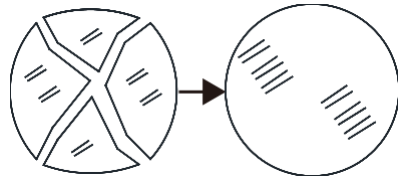


For luminaires with glass cover: The broken cover should be replaced.

Rectangle



Round



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.
- 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.