



# Energy Saving LED Lights

## FIEM INDUSTRIES LTD.

(AN ISO/TS 16949:2009, ISO 14001:2015, OHSAS 18001:2007, ISO 9001:2015 CERTIFIED & NABL ACCREDITED LAB)

### Corporate Office

Plot No. 1915, Rai Industrial Estate,  
Phase-V, Sonapat-131029,  
Haryana (INDIA)  
Tel. : +91-130-2367905  
Fax : +91-130-2367903

### Sales & Marketing Office

Aria Commercial Tower, (Unit No. 1A & 1C),  
1st Floor, JW Marriott Hotel, Aerocity,  
New Delhi-110037 (INDIA)  
Tel. : 9821795327/28/29/30

### Manufacturing Plant

SP1-C, Tapukara Industrial Estate,  
Distt. Alwar-301707, Rajasthan (INDIA)

**Website:**  
[www.fiemindustries.com](http://www.fiemindustries.com)

**Email:**  
[ledsales@fiemindustries.com](mailto:ledsales@fiemindustries.com)

**Toll Free No:**  
**1800 11 5969**

**NOTE:**  
Images are not to Scale. Due to continuous R&D,  
the company reserves the right to make changes in the  
design, data and withdraw any products without  
any prior notice.

## MANUFACTURING UNITS



Unit-I, Kundli (Haryana)



Unit-II, Hosur (Tamil Nadu)



Unit-III, Hosur (Tamil Nadu)



Unit-IV, Mysore (Karnataka)



Unit-V, Hosur (Tamil Nadu)



Unit-VI, Nalagarh (HP)



Unit-VIII, Tapukara (Rajasthan)



Unit-IX, Ahmedabad (Gujarat)

## ABOUT THE COMPANY



Corporate Office & Unit-VII at Rai, Sonapat (Haryana)

Our Company started more than 45 years ago as an OEM supplier for various automotive components and is one of the Pioneers in the Industry. It is a Public Ltd. Company listed on Bombay Stock Exchange and National Stock Exchange of India. The Company is catering to the needs of almost all segments of prestigious OEM automobile industry viz., Two-wheelers, Three-wheelers, Four-wheelers, LCVs, HTVs, tractors etc., also widely exporting to OEM customers globally. Today Fiem is a formidable name in the automotive lighting industry with 9 state of the art manufacturing plants in India as well as **R&D Centers (Govt. approved) located in India besides have their design office in Japan and Italy.** Our Photometric Lab is accredited by **NABL for LED Luminaires as well as Automotive lighting.** All our manufacturing facilities are certified with **ISO/TS 16949:2009, ISO 14001:2015 & OHSAS 18001:2007.**

The company after strengthening its position in the Automotive Industry have also gone in for **diversification since last 5 years in two more additional segments** whereby they have started manufacturing **LED Luminaires for indoor and outdoor application** and the second segment is **Integrated Passenger Information System** consisting of Train Indication; Coach Guidance & PC based Announcement System and **Passenger Information System/Led Display Systems** for Automotive- Buses and Railways.

**Under the company's diversification plan it manufactures LED Lighting products** such as LED Bulbs & LED Tube Light, Recess Panels, Down Lights, Spot Lights, Bay Lights, Flood Lights, Solar based Lantern and Street lights etc. Company feels that LED is the present and the future of lighting industry and there is no dearth for business of its LED products because of its undisputed advantages such as Huge Energy Saving, Long Reliable Life, Low Maintenance Cost, Eco -friendly, No Mercury & UV, Minimal Carbon Foot Print etc.

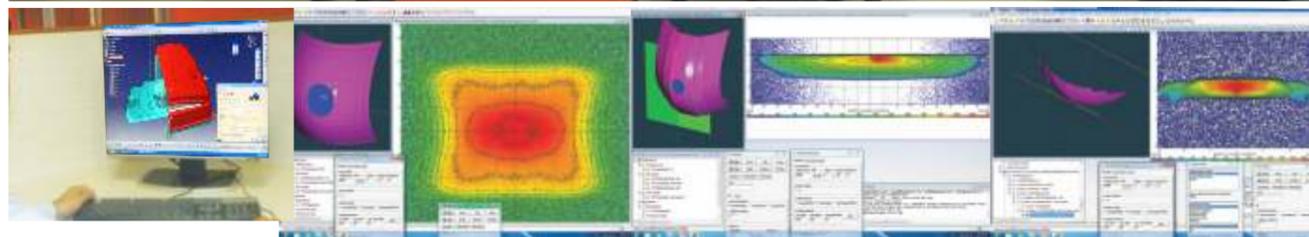
**Fiem Led Lighting is 100% Indian and 100% proven for producing Energy Efficient Lighting Products.**

## RESEARCH & DEVELOPMENT

### Govt. Approved In-House Research & Development Centre

We transform the idea of our customers into innovative products by our strong R&D, Designing capabilities and NABL Accredited Lab

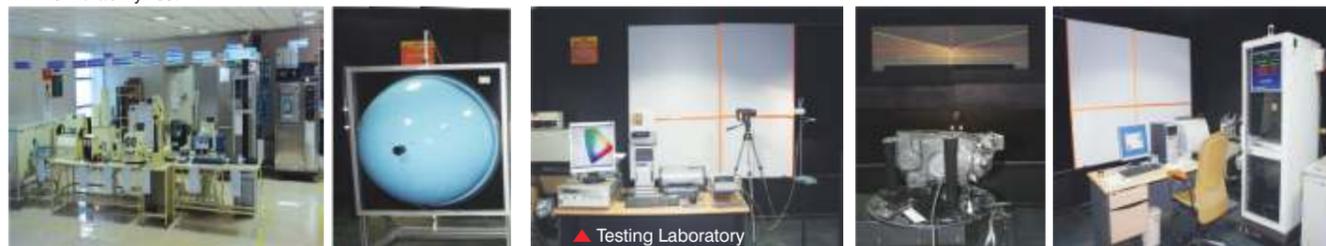
#### Design & Development Wing



#### Environmental, Electrical, Mechanical & Durability Test

#### Integrating Sphere - IM Ø

#### Photometric Simulations



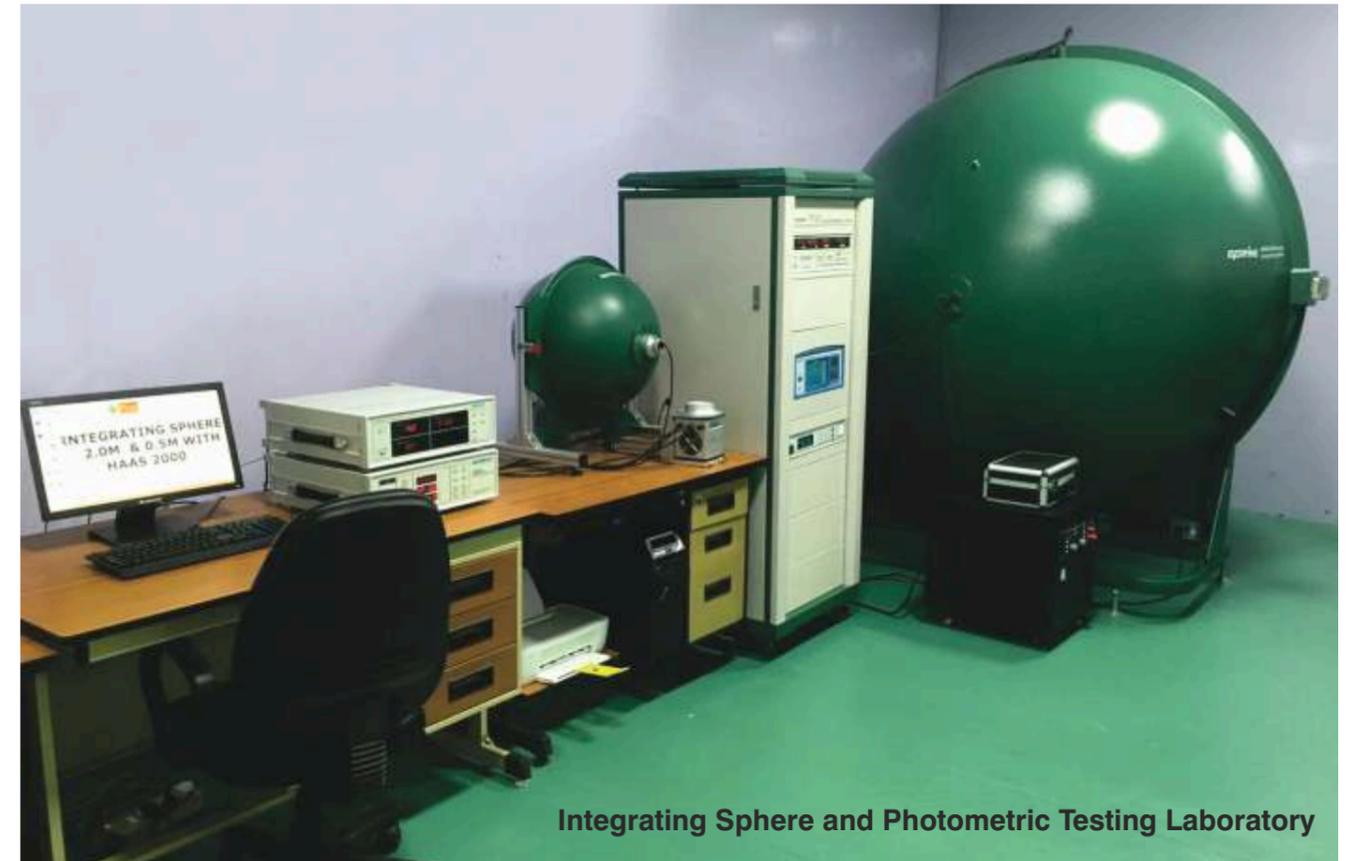
Photometry Solution Lab-consisting of Calorimetry Tester, License Lamp Testing Camera, Fully Automatic Goniometer With Test Programmes of National & International Lighting Regulations



Vibration Tester with Anechoic (Elamitic) Chamber

3-d Coordinate & Profile Measuring Equipments

## TESTING LABORATORY



Integrating Sphere and Photometric Testing Laboratory



Durability Test

Goniometer With Mirror Attachment  
Photometric Lab for LED Luminaires

## LED MANUFACTURING FACILITIES

## LED MANUFACTURING FACILITIES

### 4 Fully Automatic Lines for LED Bulb Assembly



High Power LED Street Light 10 Aging Lines



LED Bulb 4 Aging Lines



10 Assembly Lines



4 Assembly Lines

# LED MANUFACTURING FACILITIES

# CERTIFICATES

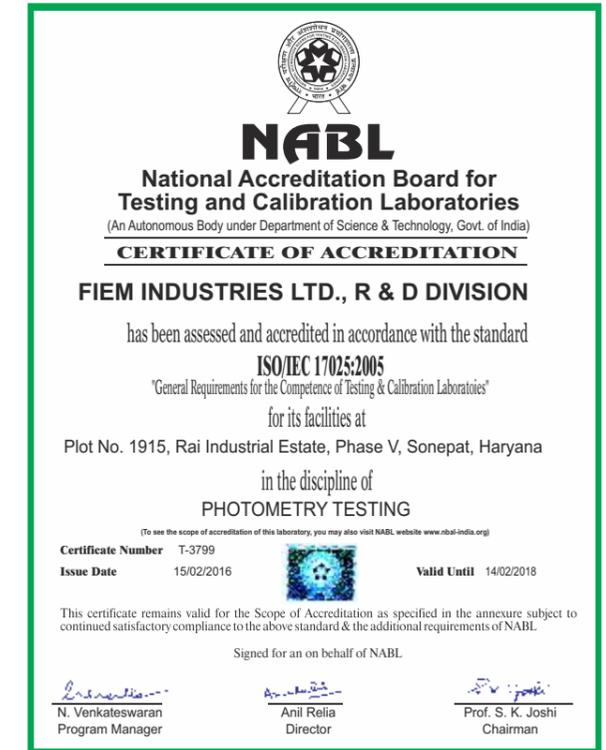
## 7 SMT Lines (Surface Mount Technology)



### Government approval for In-House R&D Centre



### NABL Certificate of Accredited



### Quality Management System ISO 9001:2008



### ISO 9001:2015



# CERTIFICATES

# CERTIFICATES

## BIS Certification for LED Bulb

**भारतीय मानक बोर्ड**  
BUREAU OF INDIAN STANDARDS  
Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India

Our Ref: Registration/CRS 2016-4028/R-84000515 Date:16-06-2017

Inclusion Id: 10679

Subject: Inclusion of Additional Model(s)

MANUFACTURING UNIT:	FIEM INDUSTRIES LTD. UNIT VIII SP 1-C, TAPUKARA IND. AREA, BHIWADI, DISTT. ALWAR, RAJASTHAN - 301707, INDIA
INDIAN REPRESENTATIVE:	FIEM INDUSTRIES LTD. UNIT VIII SP 1-C, TAPUKARA IND. AREA, BHIWADI, DISTT. ALWAR, RAJASTHAN - 301707, INDIA DR. H C KADHPAL, VICE PRESIDENT R n D kandpal@fiemindustries.com 9899206610

Dear Sir,

- This has reference to your request for inclusion of models of 'Self-Balasted LED Lamps For General Lighting Services' as per IS 16102(PART 1):2012 in Registration No. R-84000515 already granted to you which is valid upto 06-12-2018.
- It is intimated that the additional models as per details given below have been agreed to be included in your Registration No. R-84000515 w.e.f. 09-06-2017:

Product	Self-Balasted LED Lamps For General Lighting Services
IS No.	IS 16102(PART 1):2012
Brand	FIEM
Inclusion of Additional Model(s) (w.e.f. 09-06-2017)	5W, 7W, 9W, 12W
Factory Address	UNIT VIII SP 1-C, TAPUKARA IND. AREA, BHIWADI, DISTT. ALWAR, RAJASTHAN - 301707, INDIA

- In view of the above, you are permitted to mark your product 'Self-Balasted LED lamps for General Lighting Service' having above mentioned Brand/Additional Models as per the guidelines for the use of Standard Mark and labeling requirements under BIS Compulsory Registration Scheme for Electronic and IT Products given in circular No Ref. CMD 3/81/5975 dated 03/12/2015 available on BIS website and Ministry of Electronics and Information Technology (MeitY) notification S.O. 638(E) dated 10/02/2016, w.e.f. 09-06-2017. Other terms and conditions of the Registration Scheme shall remain same.
- This letter is being issued with the approval of competent authority. Kindly acknowledge receipt of this letter.

Thanking you,

Yours faithfully,  
*(S. Chauhani)*  
S. CHAUHANI  
Scientist (C-Reg Dept.)  
Telefax : +91-11-2323 0856  
E-mail: registration@bis.org.in

## VCA approval for LED Display System

**VCA**  
THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED <sup>(1)</sup> APPROVAL-EXTENDED <sup>(2)</sup> APPROVAL-REFUSED <sup>(3)</sup> APPROVAL-WITHDRAWN <sup>(4)</sup> PRODUCTION DEFINITELY <sup>(5)</sup> WITHDRAWN <sup>(6)</sup> OF A TYPE OF ELECTRICAL/ELECTRONIC SUB-ASSEMBLY <sup>(7)</sup> WITH REGARD TO REGULATION NO. 10.04

Approval No: 10R-048765

Extension No: Not applicable

- Make (trade name of manufacturer): FIEM INDUSTRIES LTD
- Type and general commercial description(s): LED Display System
- Means of identification of type, if marked on the vehicle/component: Separate technical unit.  
Approval number and Fiem Part No:  
LED Display Panel - 00405DU2052-00TX  
Driver Control Unit - 0040DCU2053-00XX
- Location of that marking: On the rear side of LED Display Panel and on the top of Controller
- Category of vehicle: Not applicable
- Name and address of manufacturer:  
FIEM INDUSTRIES LTD.  
Plot No. 1915, Rai Industrial Estate, Phase-V,  
Sonapat-131029, Haryana (India).

In the case of components and separate technical units, location and method of affixing of the ECE approval mark: Indelible stickers on the Back side of Display & top of Controller

ISQ317685  
An executive agency of the Department for Transport  
June 2012 Revision 0

## CE certification of Drivers & Luminaires

**Intertek**

Intertek India Private Limited  
E-20, Block B-1, Mohan Co-operative Industrial Estate  
Mathura Road, New Delhi - 110 044, India  
Tel: +91 11 4159 5460 Fax: +91 11 4159 5475

**Test Verification of Conformity**

Applicant Name & Address : FIEM INDUSTRIES LIMITED  
D-34 DSIDC Packaging Complex Kirti Nagar  
New Delhi - 110015 India

Manufacturing Location(s) : Unit I: Plot No. 1915 Rai Industrial Estate  
Phase V Sonapat 131029 Haryana India  
Unit VI: Village Bhatian, Tehsil Nalagarh, Distt. Solan - 174101 Himachal Pradesh India  
Unit VII: S.P.I.-C, Tapukara Industrial Estate, Distt. Alwar-301019 Rajasthan India

Product(s) Tested : Recessed Luminaire

Rating and principal characteristics : 220V - 240VAC, 50/50Hz, 22 W

Model(s) : Prismatic - MP2P22

Brand name : 

Relevant Standard(s)/Specification(s) : Low Voltage Directive (LVD) 2006/95/EC  
EN 60598-2:2-1996+A1:1997 used in conjunction with  
EN 60598-1:2004+A1:2006

Verification Issuing Office Name & Address : Intertek India Private Limited  
E-20, Block B-1, Mohan Co-operative Industrial Estate,  
Mathura Road, New Delhi-110044, India

Verification/Project Number(s) : DL12-09264

**NOTE:** This verification is part of the full test report(s) and should be read in conjunction with it.

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or use of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and nonconformity results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification programme.

*(Rakesh Chaurasia)*  
Rakesh Chaurasia  
Operations Head  
02<sup>nd</sup> October 2012

www.intertek.com

## CE certification of LED Bulbs

**Intertek**

Intertek India Private Limited  
E-20, Block B-1, Mohan Co-operative Industrial Estate  
Mathura Road, New Delhi-110 044, India  
Tel: +91 11 4159 5460 Fax: +91 11 4159 5475

**TEST REPORT**  
IEC 62560  
Self-Balasted LED-Lamp  
for general lighting services by voltage > 50V Safety specifications

Report Number: IEC JCR 001 15 00424 004

Date of Issue: 17 September 2013

Total number of pages: 23

Issued by (printed name and a grade): Vikram Gupta

Approved by (printed name and a grade): Rakesh Chaurasia

Testing Laboratory Name: Intertek India Pvt. Ltd.  
Address: E-20, Block B-1, Mohan Co-operative Industrial Estate, Mathura Road, New Delhi - 110044 India

Applicant's name: FIEM INDUSTRIES LTD  
Address: Plot No. 1915, HSEDC, Rai Industrial Estate, Distt. Sonapat - 131029, HARYANA, INDIA

Total specifications:  
Standard: IEC 62560:2011 (Final Edition)  
Type of approval: CR Scheme  
Manufacturer identification: N/A  
Test Report Form No.: IEC60900A  
Test Report Form Originator: IEC/ISA Certification Body  
Issue TRF: Issue 001-0

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This certificate is valid only for the specific test results and is not valid for any other test results. It is not valid for any other test results. It is not valid for any other test results. It is not valid for any other test results.

Test item description: Self-Balasted LED lamp

Trade Mark: FIEM

Manufacturer: FIEM, UNIT VIII SP-1C

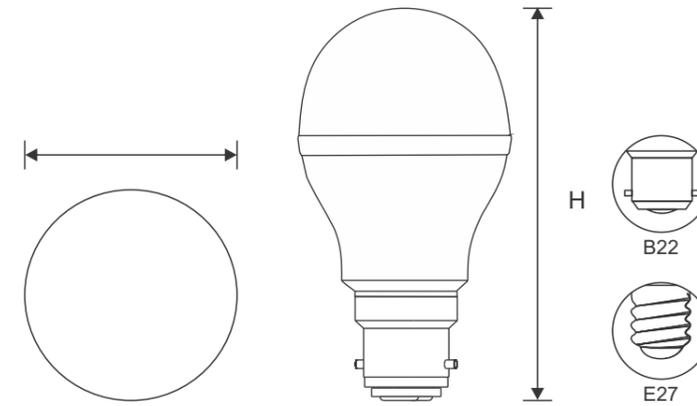
Model/Type reference: IS-16102-2012-001, IS-16102-2012-002, IS-16102-2012-003, IS-16102-2012-004, IS-16102-2012-005, IS-16102-2012-006, IS-16102-2012-007, IS-16102-2012-008, IS-16102-2012-009, IS-16102-2012-010, IS-16102-2012-011, IS-16102-2012-012, IS-16102-2012-013, IS-16102-2012-014, IS-16102-2012-015, IS-16102-2012-016, IS-16102-2012-017, IS-16102-2012-018, IS-16102-2012-019, IS-16102-2012-020, IS-16102-2012-021, IS-16102-2012-022, IS-16102-2012-023, IS-16102-2012-024, IS-16102-2012-025, IS-16102-2012-026, IS-16102-2012-027, IS-16102-2012-028, IS-16102-2012-029, IS-16102-2012-030, IS-16102-2012-031, IS-16102-2012-032, IS-16102-2012-033, IS-16102-2012-034, IS-16102-2012-035, IS-16102-2012-036, IS-16102-2012-037, IS-16102-2012-038, IS-16102-2012-039, IS-16102-2012-040, IS-16102-2012-041, IS-16102-2012-042, IS-16102-2012-043, IS-16102-2012-044, IS-16102-2012-045, IS-16102-2012-046, IS-16102-2012-047, IS-16102-2012-048, IS-16102-2012-049, IS-16102-2012-050, IS-16102-2012-051, 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# LED CLASSIC BULB

# LED CLASSIC BULB



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
										H		
FLA013W65KB22	3W	100V-300V	6500K	255	<20%	>80	0.50	B22	52	93	25,000 Hrs	50 Nos
FLA013W65KE27	3W	100V-300V	6500K	255	<20%	>80	0.50	E27	52	93	25,000 Hrs	50 Nos
FLA015W65KB22*	5W	100V-300V	6500K	460	<20%	>80	0.90	B22	55	100	25,000 Hrs	50 Nos
FLA015W65KE27*	5W	100V-300V	6500K	460	<20%	>80	0.90	E27	55	100	25,000 Hrs	50 Nos
FLA017W65KB22*	7W	100V-300V	6500K	650	<20%	>80	0.90	B22	55	100	25,000 Hrs	50 Nos
FLA017W65KE27*	7W	100V-300V	6500K	650	<20%	>80	0.90	E27	55	100	25,000 Hrs	50 Nos
FLA019W65KB22*	9W	100V-300V	6500K	820	<20%	>80	0.90	B22	55	100	25,000 Hrs	50 Nos
FLA019W65KE27*	9W	100V-300V	6500K	820	<20%	>80	0.90	E27	55	100	25,000 Hrs	50 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

- Aluminium housing with Plastic coating
- LED fixing system is as per European Standard



## APPLICATIONS



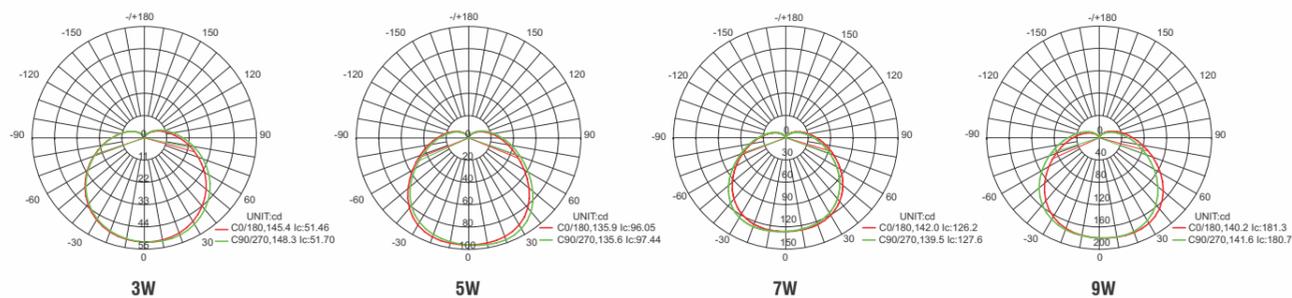
Conforming Standards: LM- 80 & Photo Biological Test IEC62471 \* BIS Conforming: IS-16102 (Part I):2012-R-84000515



## EXPLODED VIEW



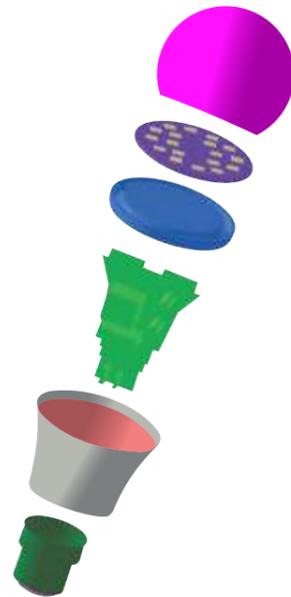
## LIGHT DISTRIBUTION



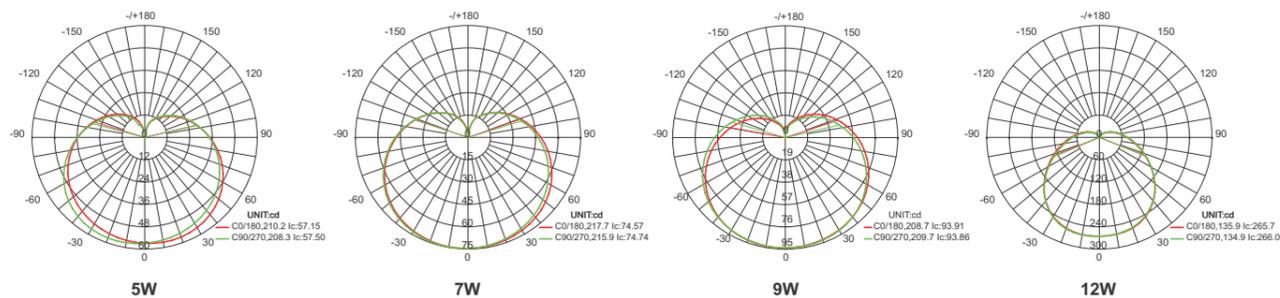
# LED PREMIUM BULB



EXPLODED VIEW

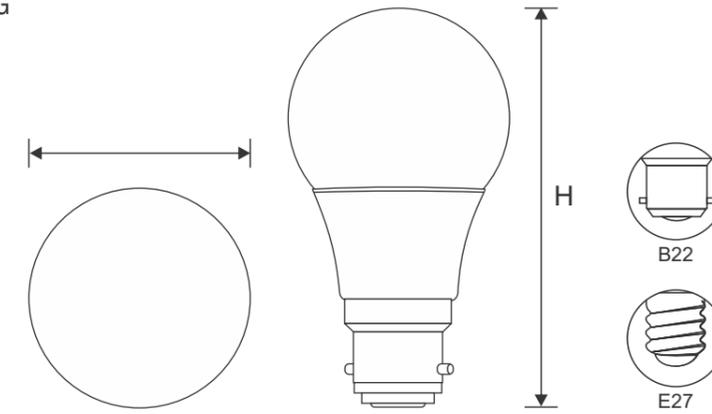


LIGHT DISTRIBUTION



# LED PREMIUM BULB

## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
										H		
FLA025W65KB22*	5W	100V-300V	6500K	450	<20%	>80	0.90	B22	60	110	25,000 Hrs	50 Nos
FLA025W65KE27*	5W	100V-300V	6500K	450	<20%	>80	0.90	E27	60	110	25,000 Hrs	50 Nos
FLA027W65KB22*	7W	100V-300V	6500K	630	<20%	>80	0.90	B22	60	110	25,000 Hrs	50 Nos
FLA027W65KE27*	7W	100V-300V	6500K	630	<20%	>80	0.90	E27	60	110	25,000 Hrs	50 Nos
FLA029W65KB22*	9W	100V-300V	6500K	810	<20%	>80	0.90	B22	70	125	25,000 Hrs	50 Nos
FLA029W65KE27*	9W	100V-300V	6500K	810	<20%	>80	0.90	E27	70	125	25,000 Hrs	50 Nos
FLA0212W65KB22*	12W	100V-300V	6500K	1150	<20%	>80	0.90	B22	68	129	25,000 Hrs	40 Nos
FLA0212W65KE27*	12W	100V-300V	6500K	1150	<20%	>80	0.90	E27	68	129	25,000 Hrs	40 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

- Aluminium housing with Plastic coating
- LED fixing system is as per European Standard



## APPLICATIONS



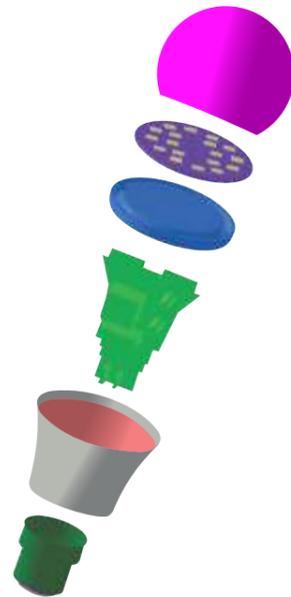
Conforming Standards: LM- 80 & Photo Biological Test IEC62471 \* BIS Conforming: IS-16102 (Part I):2012-R-84000515

# LED 3-IN-1 BULB

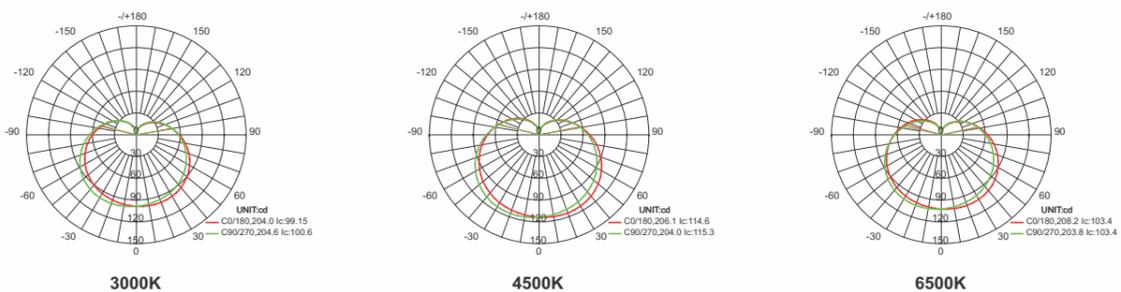
# LED 3-IN-1 BULB



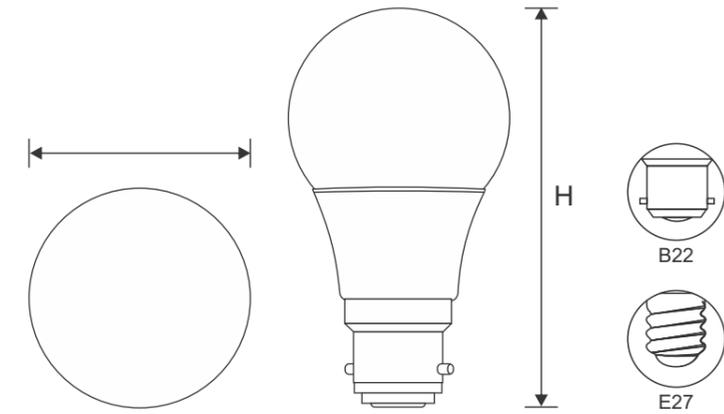
## EXPLODED VIEW



## LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING

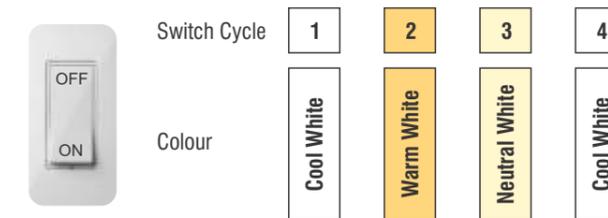


## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
									W	H		
FLA089WCWNB22	9W	100V-300V	CWN*	730	<15%	>80	0.90	B22	70	125	25,000 Hrs	50 Nos
FLA089WCWNE27	9W	100V-300V	CWN*	730	<15%	>80	0.90	E27	70	125	25,000 Hrs	50 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

\*CWN:  
C = Cool White  
W = Warm White  
N = Neutral White



## FEATURES

- Light Colour Control using the AC main switch.
- By turning ON/OFF/ON within 6 seconds, the colour of the light can be changed among cool white, warm white and neutral white.
- The last set colour is maintained once the light is ON for 5 seconds.

## CONSTRUCTION

- Aluminium housing with Plastic coating
- LED fixing system is as per European Standard



## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DIMMABLE / 3 STEP DIMMABLE BULB

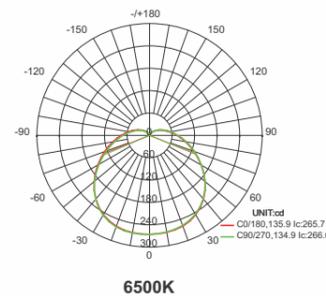
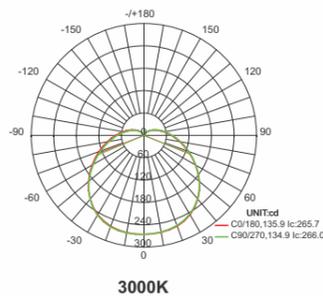
# LED DIMMABLE / 3 STEP DIMMABLE BULB



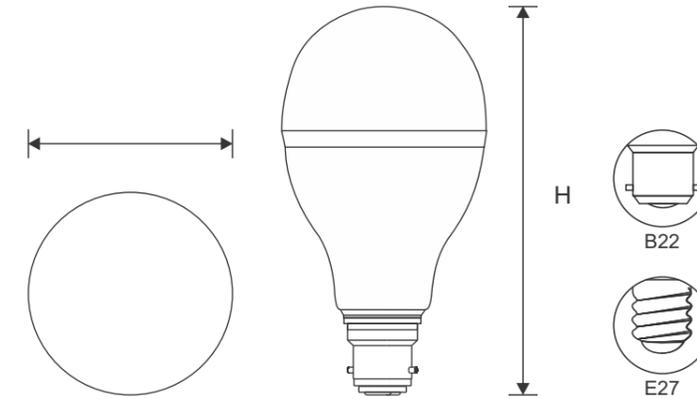
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
									D	H		
FLA07-D-12W65KB22	12W	100V-300V	6500K	1150	<20%	>80	0.90	B22	68	129	25,000 Hrs	40 Nos
FLA07-D-12W65KE27	12W	100V-300V	6500K	1150	<20%	>80	0.90	E27	68	129	25,000 Hrs	40 Nos
FLA07-3S-12W65KB22	12W	100V-300V	6500K	1150	<20%	>80	0.90	B22	68	129	25,000 Hrs	40 Nos
FLA07-3S-12W65KE27	12W	100V-300V	6500K	1150	<20%	>80	0.90	E27	68	129	25,000 Hrs	40 Nos

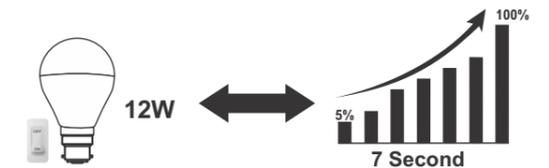
WARM/NEUTRAL WHITE colour options may be available on request.

D = Dimmable 3S = 3 Step Dimmable

## DIMMABLE BULB

### Features:

- Continuous Analog Dimming Controlled by any AC wall Switch
- Upon turning on the switch, the light will start at 5% and Brighten to 100% within 7 seconds
- Easy – No Dimmer cost
- High Efficiency, High Energy Saving
- Long Life & Eco Friendly
- High Lumen Output, Bright and True Colour



### Dimming Action:

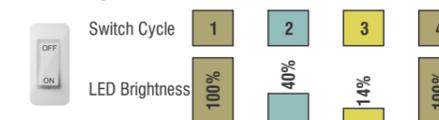
- This bulb increase brightness from low to high when turned ON.
- Flick the switch any time before full brightness to lock in the dimming level you desire.
- Flick again to repeat the cycle.

## 3 STEP DIMMABLE BULB

### Features:

- Light brightness control by using AC Main Switch
- By turning On/OFF/ON, the brightness of light is controlled in steps of 100%, 40% and 10%
- No dimmer requirement and ideal solution for energy saving.
- Easy Installation

### Dimming Action:



## CONSTRUCTION

- Aluminium housing with Plastic coating
- LED fixing system is as per European Standard

## APPLICATIONS



**Cautions:** • Only Operates with AC Power Supply • Not for Use in Totally Enclosed Fixture • Disconnect Power before Changing Lamp

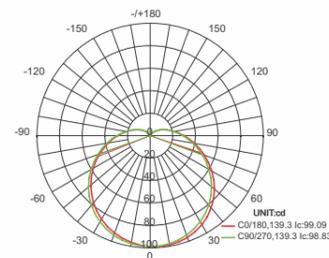
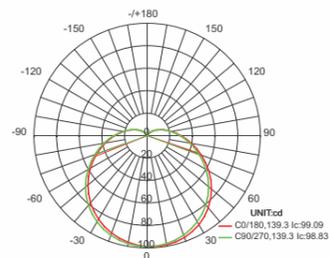
# LED EMERGENCY BULB



## EXPLODED VIEW

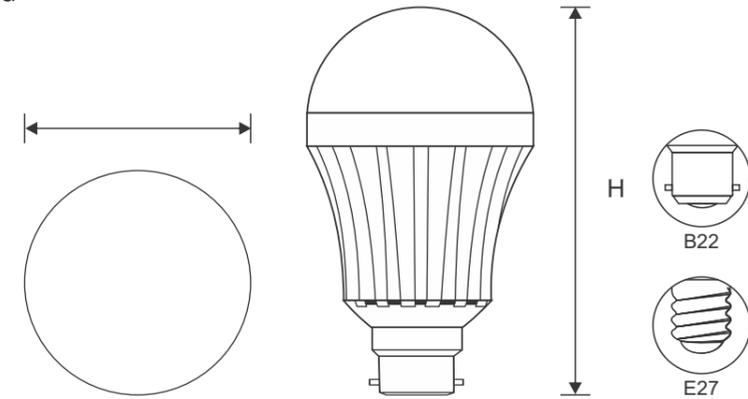


## LIGHT DISTRIBUTION



# LED EMERGENCY BULB

## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	CRI	Base	Dimensions (mm)		Packing
						D	H	
FLA057W65KB22	7W	140V-270V	6500K	>80	B22	68	121	50 Nos
FLA057W65KE27	7W	140V-270V	6500K	>80	E27	68	121	50 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

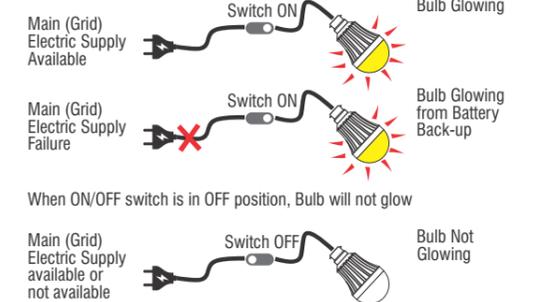
## WORKING INSTRUCTIONS:

LED Emergency Bulb is fitted with Lithium Ion Battery to keep the Bulb glowing even when the Main (Grid) Electric Supply fails. Bulb has 2 modes of operations as mentioned below :-

### Mode 1 :

When the Bulb ON/OFF switch is in ON position, then bulb will be glowing from Main (Grid) Electric Supply and also Battery will get charged, in case of Main (Grid) Electric Supply failure Bulb will be still glowing and will be powered by internal Battery giving a back-up upto 4 hours under fully Battery condition. charged

### Mode 2 :



## FEATURES

- Long Life • Eco Friendly • High Energy Saving • Bright and True Colours
- High Lumen Output • Instant Start

## CONSTRUCTION

- LED fixing system is as per European Standard



## APPLICATIONS



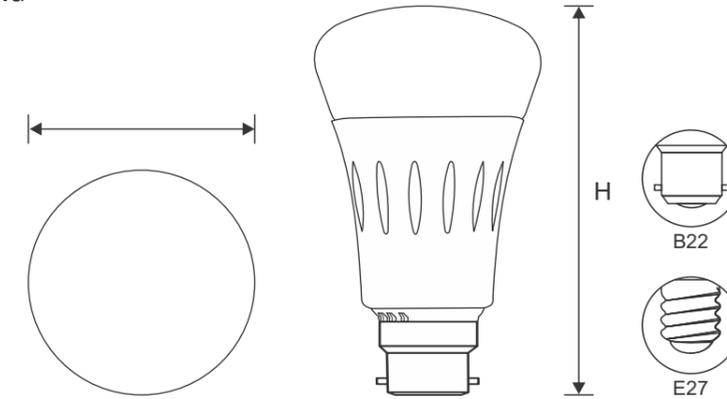
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED SMART BULB

# LED SMART BULB



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour	Initial Lumens	Base	Dimensions (mm)		Life (Upto)	Packing
							H		
FLA066WRGBB22	6W	85V-265V	RGB	600	B22	62	117	25,000 Hrs	50 Nos
FLA066WRGBE27	6W	85V-265V	RGB	600	E27	62	117	25,000 Hrs	50 Nos

## EXPLODED VIEW



## WORKING

Intelligent Smart Bulb, which can be connected with controller pod to power source. This work through Bluetooth and shall be used with the IOS (Apple iPhone)/ Android App to pair bulb with the controller. It has more than one million colour combinations such as changing colour as per music and dance and also can checks the heartbeat.



## FEATURES

- Long Life • Eco Friendly • High Energy Saving • Bright and True Colours
- High Lumen Output • Instant Start

## CONSTRUCTION

- Aluminium housing with Plastic coating
- LED fixing system is as per European Standard

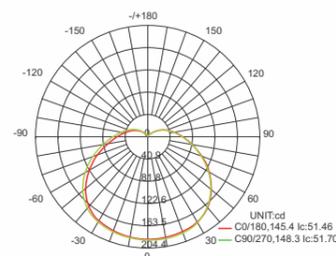
## APPLICATIONS



Conforming Standards: • LM- 80 & Photo Biological Test IEC62471 • IEC - 62560-211



## LIGHT DISTRIBUTION



# LED DECO / CANDLE BULB

# LED DECO / CANDLE BULB



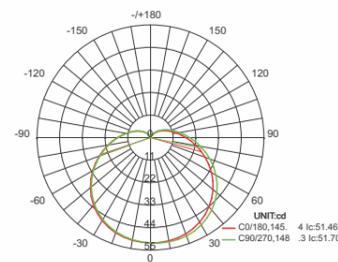
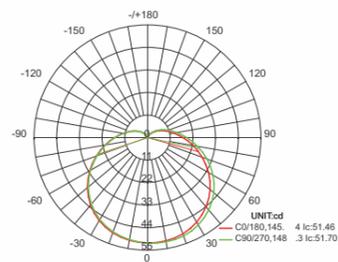
EXPLODED VIEW



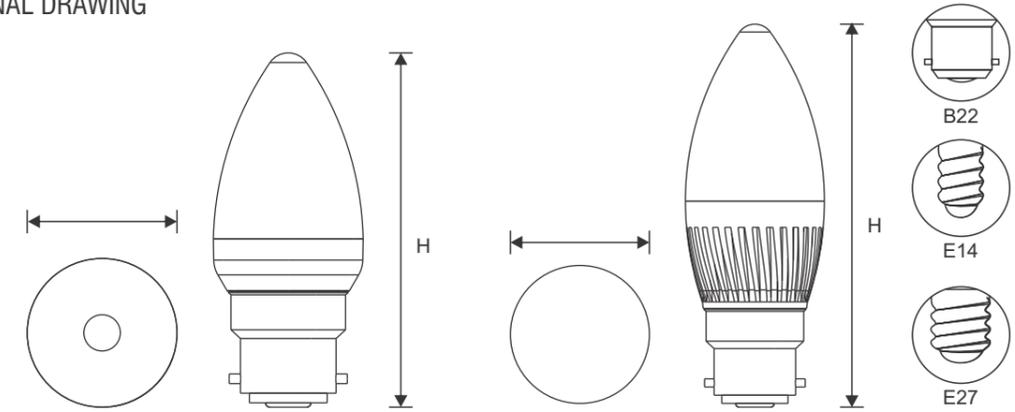
DECO BULB

CANDLE BULB

LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS DECO BULB:

CAT. REF.	Rated Wattage	Working Voltage	Colour	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
							H		
FLA03HWRB22	0.5W	100V-300V	RED	0.50	B22	35	83	25,000 Hrs	100 Nos
FLA03HWWB22	0.5W	100V-300V	WHITE	0.50	B22	35	83	25,000 Hrs	100 Nos
FLA03HWYB22	0.5W	100V-300V	YELLOW	0.50	B22	35	83	25,000 Hrs	100 Nos
FLA03HWBB22	0.5W	100V-300V	BLUE	0.50	B22	35	83	25,000 Hrs	100 Nos
FLA03HWGB22	0.5W	100V-300V	GREEN	0.50	B22	35	83	25,000 Hrs	100 Nos

## SPECIFICATIONS CANDLE BULB:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
									H		
FLA043W65KE14	3W	100V-300V	6500K	210	>75	0.50	E14	34	104	25,000 Hrs	100 Nos
FLA043W65KE27	3W	100V-300V	6500K	210	>75	0.50	E27	34	104	25,000 Hrs	100 Nos
FLA043W65KB22	3W	100V-300V	6500K	210	>75	0.50	B22	34	104	25,000 Hrs	100 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

- Housing with engineering thermoplastic
- LED fixing system is as per European Standard



## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

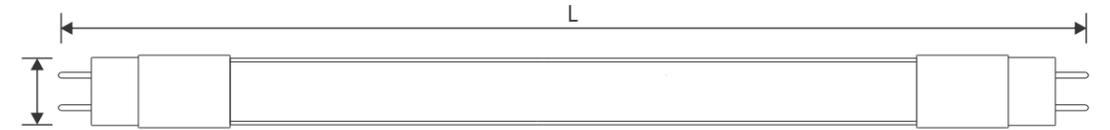
# LED T8 TUBE LIGHT

# LED T8 TUBE LIGHT



EXPLODED VIEW

## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
									L	Ø		
FLB01-A-20WT865K	20W	100V-300V	6500K	1900	<20%	>80	0.90	G13	1200	27	25,000 Hrs	20 Nos
FLB01-A-10WT865K	10W	100V-300V	6500K	950	<20%	>80	0.90	G13	600	27	25,000 Hrs	20 Nos
FLB01-P-20WT865K	20W	100V-300V	6500K	1900	<20%	>80	0.90	G13	1200	27	25,000 Hrs	20 Nos
FLB01-P-10WT865K	10W	100V-300V	6500K	950	<20%	>80	0.90	G13	600	27	25,000 Hrs	20 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

A = Aluminium P = Plastic

## FEATURES

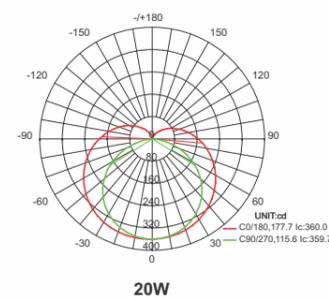
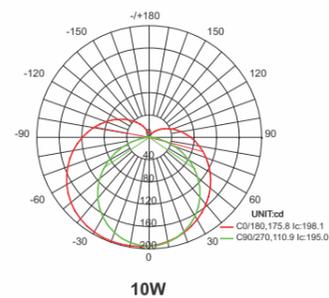
- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

- Extruded Aluminium / Thermoplastic housing with highly efficient PC diffuser
- T-8 type G13 Cap
- LED fixing system is as per European Standard



## LIGHT DISTRIBUTION



## APPLICATIONS



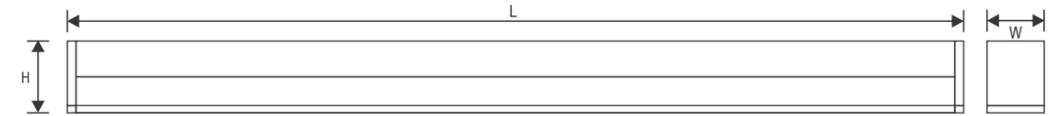
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED T8 TUBE LIGHT (BATTEN)

# LED T8 TUBE LIGHT (BATTEN)



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLC03-P-20WT865K	20W	100V-300V	6500K	2000	<20%	>80	0.90	1135	22	35	25,000 Hrs	20 Nos
FLC03-P-10WT865K	10W	100V-300V	6500K	1000	<20%	>80	0.90	568	22	35	25,000 Hrs	20 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

P = Plastic

## EXPLODED VIEW



## FEATURES

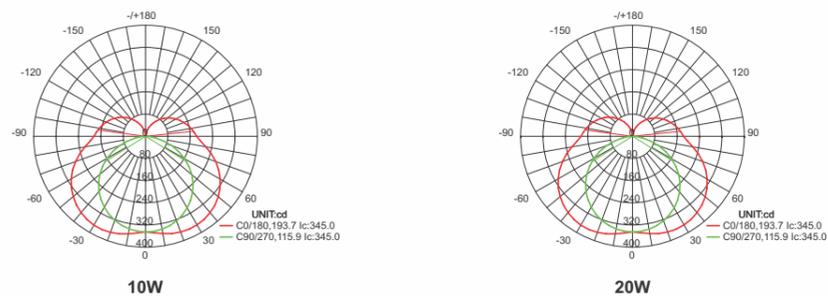
- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

- Thermoplastic housing with highly efficient PC diffuser
- LED fixing system is as per European Standard



## LIGHT DISTRIBUTION



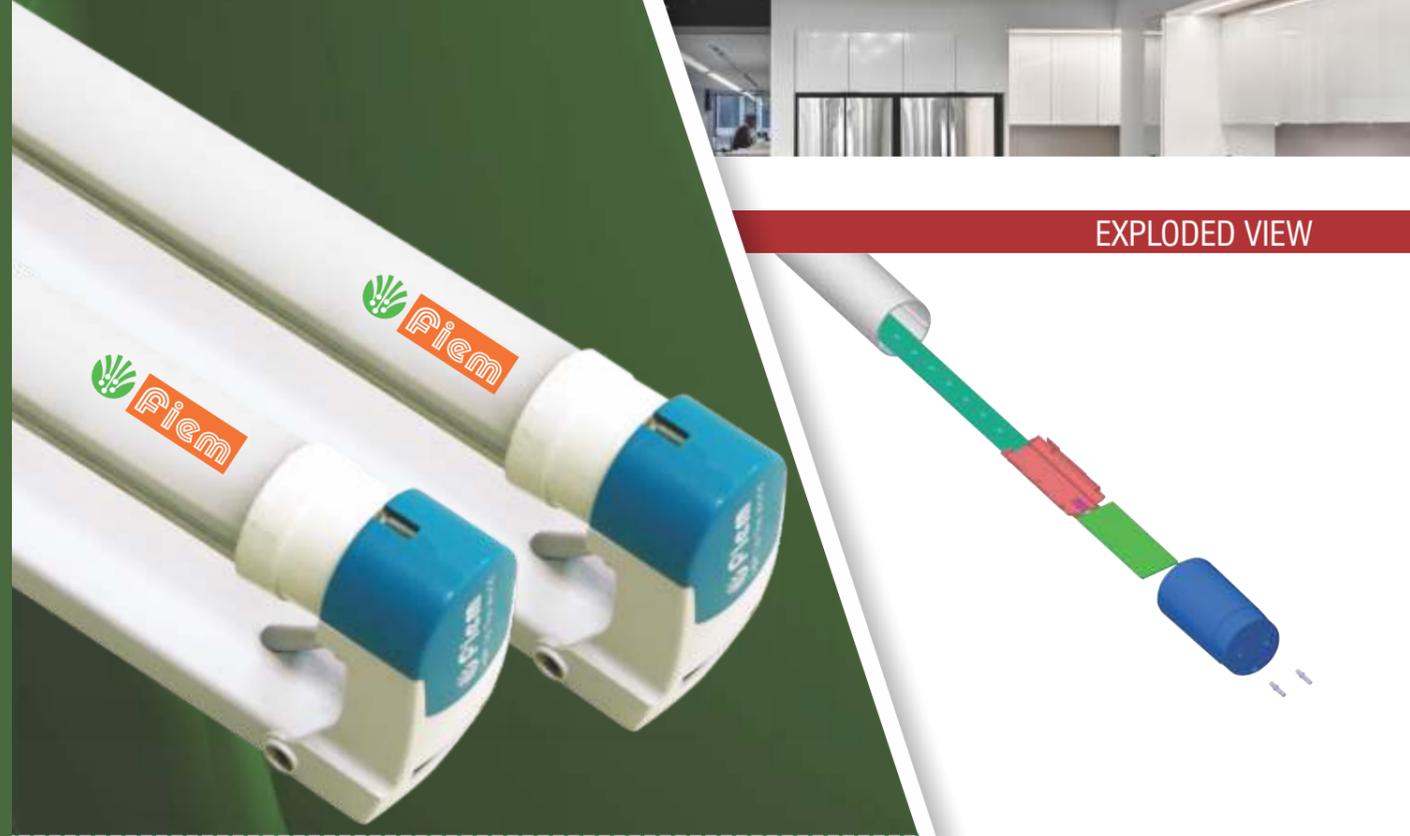
## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

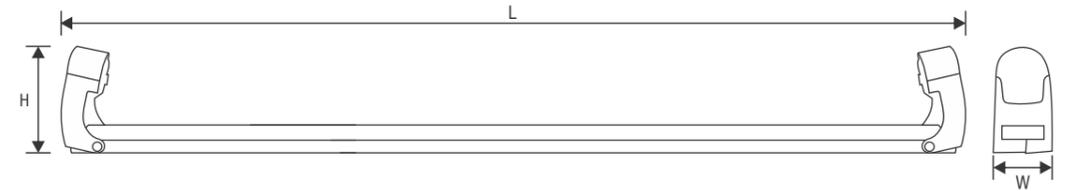
# LED T8 TUBE LIGHT (STRIP)

# LED T8 TUBE LIGHT (STRIP)



EXPLODED VIEW

## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
									L	H		
FLC02-A-20WT865K	20W	100V-300V	6500K	1900	<20%	>80	0.90	G13	1240	68	25,000 Hrs	20 Nos
FLC02-A-10WT865K	10W	100V-300V	6500K	950	<20%	>80	0.90	G13	620	68	25,000 Hrs	20 Nos
FLC02-P-20WT865K	20W	100V-300V	6500K	1900	<20%	>80	0.90	G13	1240	68	25,000 Hrs	20 Nos
FLC02-P-10WT865K	10W	100V-300V	6500K	950	<20%	>80	0.90	G13	620	68	25,000 Hrs	20 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

A = Aluminium P = Plastic

## FEATURES

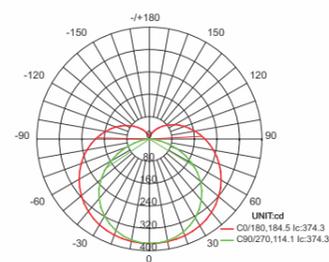
- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

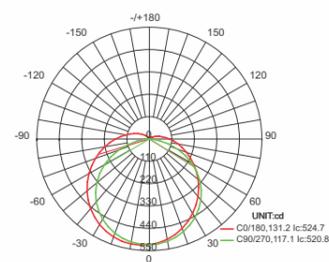
- Batten: CRCA sheet metal with white epoxy powder coated and side plastic cap
- LED fixing system is as per European Standard



## LIGHT DISTRIBUTION



Plastic



Aluminium

## APPLICATIONS



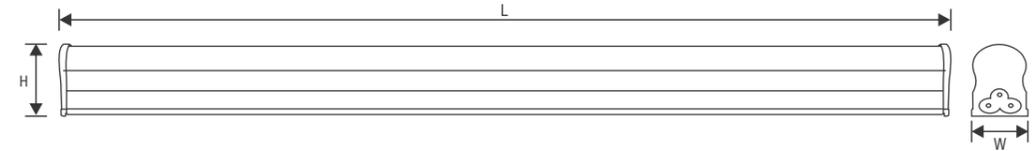
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED T5 TUBE FITTING (BATTEN)

# LED T5 TUBE FITTING (BATTEN)



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLC01-P-16WT565K	16W	100V-300V	6500K	1440	<20%	>80	0.90	1160	23	33	25,000 Hrs	20 Nos
FLC01-P-8WT565K	8W	100V-300V	6500K	720	<20%	>80	0.90	580	23	33	25,000 Hrs	20 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

P = Plastic

## EXPLODED VIEW



## FEATURES

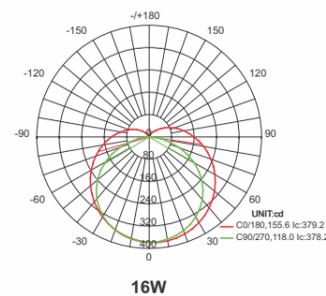
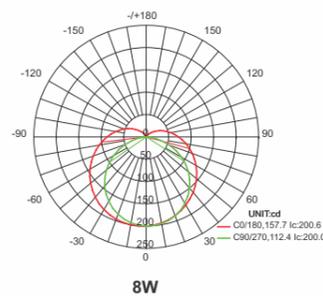
- Long Life • Eco Friendly • No Mercury • No UV • High Energy Saving
- Bright and True Colours • High Lumen Output • No Glare or Strobe Effect

## CONSTRUCTION

- Thermoplastic housing with highly efficient PC diffuser
- LED fixing system is as per European Standard



## LIGHT DISTRIBUTION



## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED SPOT LIGHT (MR16)

# LED SPOT LIGHT (MR16)



FLD015W27KGU10

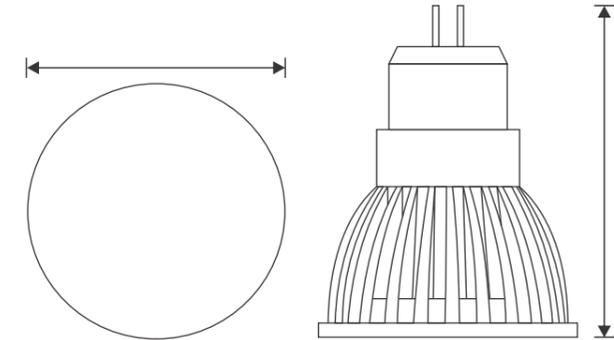


FLD013W27KG53

## EXPLODED VIEW



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Base	Dimensions (mm)		Life (Upto)	Packing
									W	H		
FLD013W27KG53	3W	100V-300V	2700K	240	<20%	>80	0.50	G5.3	50	62	25,000 Hrs	100 Nos
FLD015W27KG53	5W	100V-300V	2700K	380	<20%	>80	0.50	G5.3	50	62	25,000 Hrs	100 Nos
FLD015W27KGU10	5W	100V-300V	2700K	380	<20%	>80	0.50	GU10	50	62	25,000 Hrs	100 Nos
FLD017W27KGU10	7W	100V-300V	2700K	500	<20%	>80	0.50	GU10	50	82	25,000 Hrs	100 Nos

## FEATURES

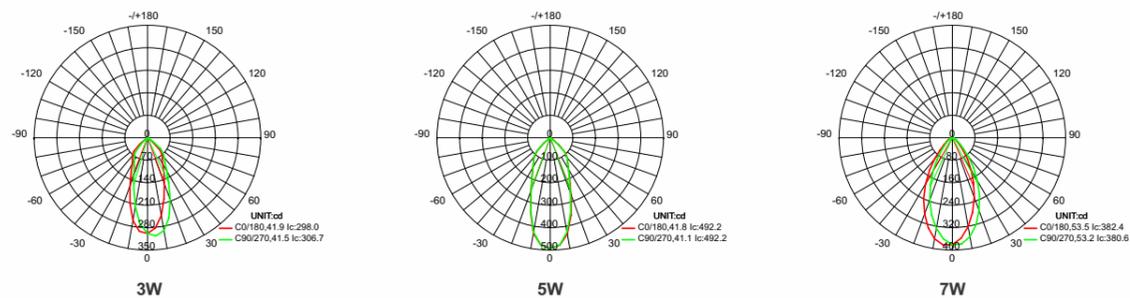
- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look • High Colour Rendering
- Cameta Lens

## CONSTRUCTION

- Extruded Aluminium housing with highly efficient PC lens
- LED fixing system is as per European Standard



## LIGHT DISTRIBUTION



## APPLICATIONS



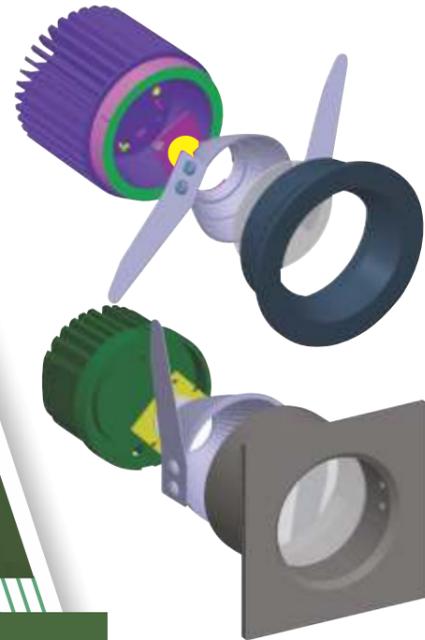
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED SPOT LIGHT (COB)

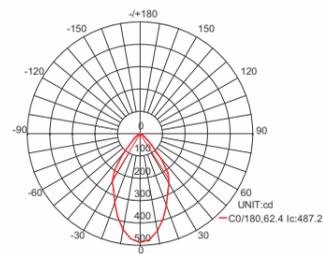
# LED SPOT LIGHT (COB)



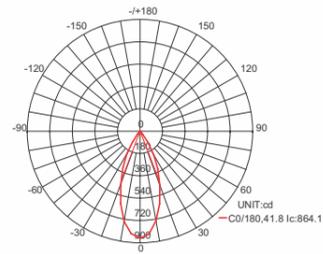
EXPLODED VIEW



LIGHT DISTRIBUTION

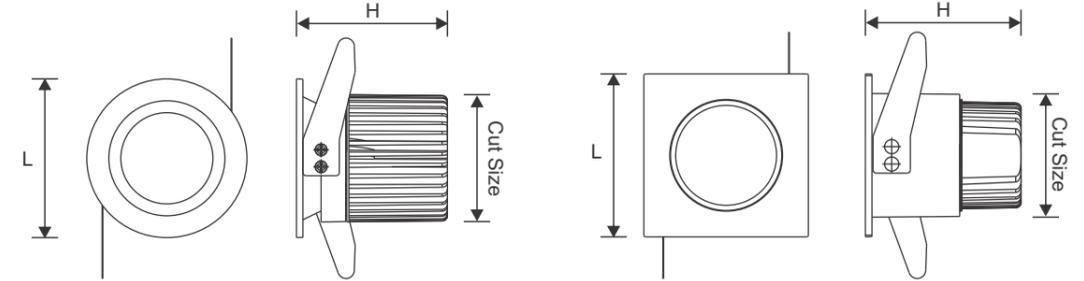


Round



Square

## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	H	Cut Size		
FLD026WCOBR65K	6W	100V-300V	6500K	420	<20%	>75	0.90	75	70	60	25,000 Hrs	20 Nos
FLD026WCOBS65K	6W	100V-300V	6500K	420	<20%	>75	0.90	75	70	60	25,000 Hrs	20 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Thermoplastic housing
- LED fixing system is as per European Standard



## APPLICATIONS



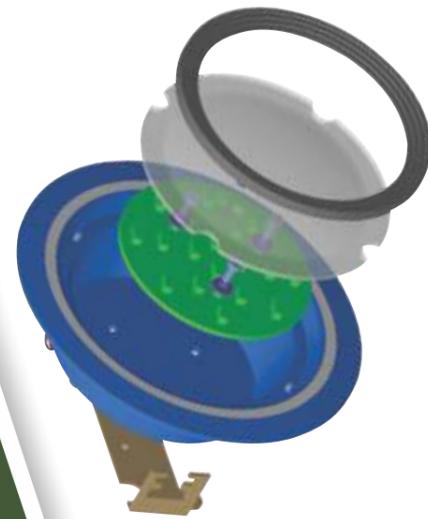
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT RING SERIES (ROUND)

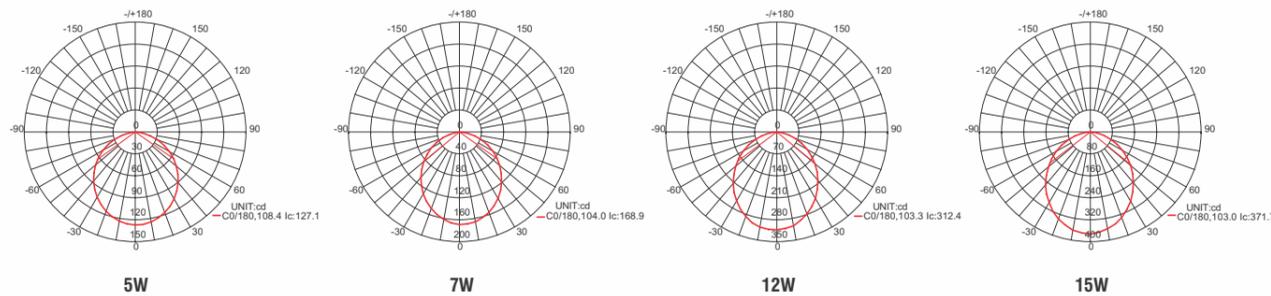
# LED DOWN LIGHT RING SERIES (ROUND)



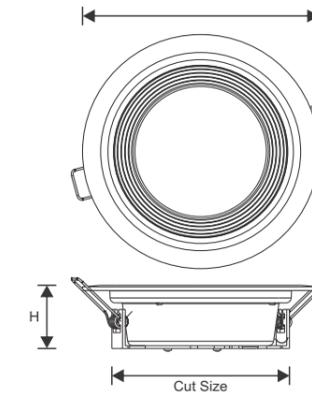
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Size (inches)	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
									H	Cut Size			
FLH014X5W65K	4	5W	100V-300V	6500K	375	<20%	>80	0.90	125	40	90	25,000 Hrs	16 Nos
FLH014X7W65K	4	7W	100V-300V	6500K	525	<20%	>80	0.90	125	40	90	25,000 Hrs	16 Nos
FLH016X12W65K	6	12W	100V-300V	6500K	900	<20%	>80	0.90	188	40	140	25,000 Hrs	16 Nos
FLH016X15W65K	6	15W	100V-300V	6500K	1125	<20%	>80	0.90	188	40	140	25,000 Hrs	16 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Aluminium housing
- LED fixing system is as per European Standard



## APPLICATIONS



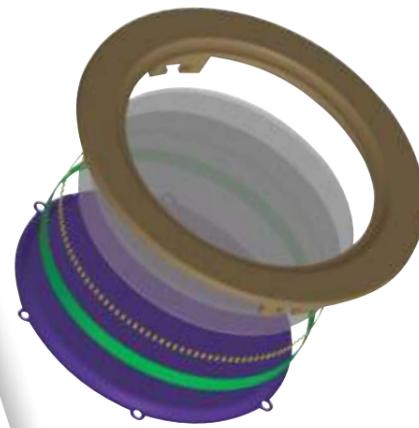
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT SLIM SERIES (ROUND)

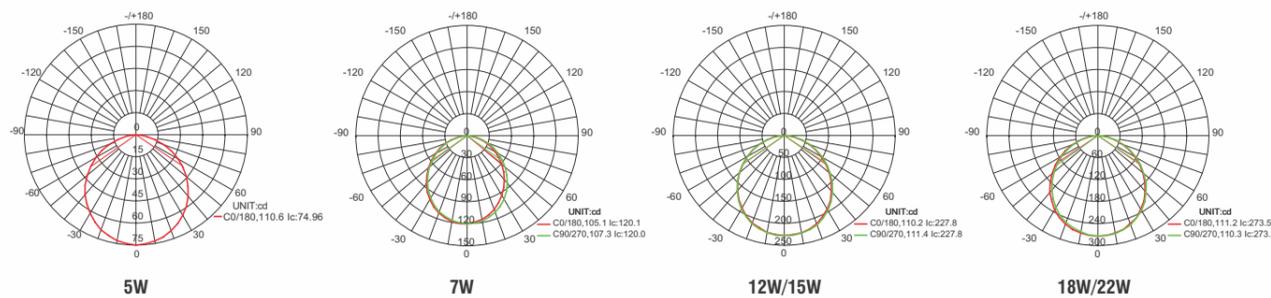
# LED DOWN LIGHT SLIM SERIES (ROUND)



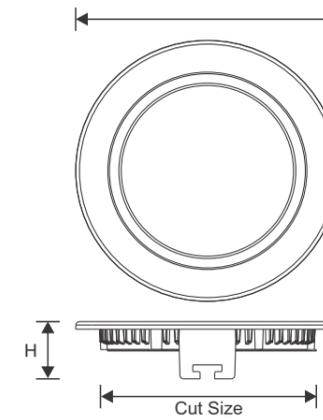
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Size (inches)	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
									H	Cut Size			
FLH024X5W65K	4	5W	100V-300V	6500K	375	<20%	>80	0.90	150	25	115	25,000 Hrs	16 Nos
FLH024X7W65K	4	7W	100V-300V	6500K	525	<20%	>80	0.90	150	25	115	25,000 Hrs	16 Nos
FLH026X12W65K	6	12W	100V-300V	6500K	900	<20%	>80	0.90	190	25	158	25,000 Hrs	16 Nos
FLH026X15W65K	6	15W	100V-300V	6500K	1125	<20%	>80	0.90	190	25	158	25,000 Hrs	16 Nos
FLH028X18W65K	8	18W	100V-300V	6500K	1350	<20%	>80	0.90	240	25	208	25,000 Hrs	12 Nos
FLH028X22W65K	8	22W	100V-300V	6500K	1650	<20%	>80	0.90	240	25	208	25,000 Hrs	12 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Aluminium housing
- LED fixing system is as per European Standard



## APPLICATIONS



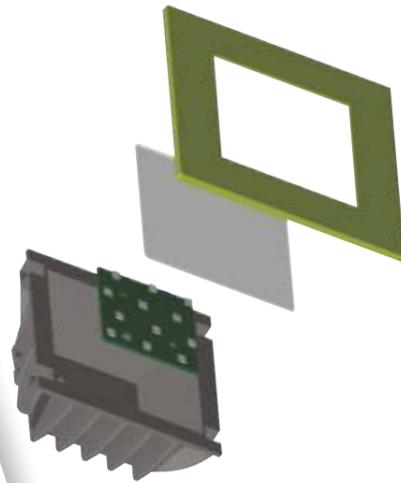
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT FLAT SERIES (SQUARE)

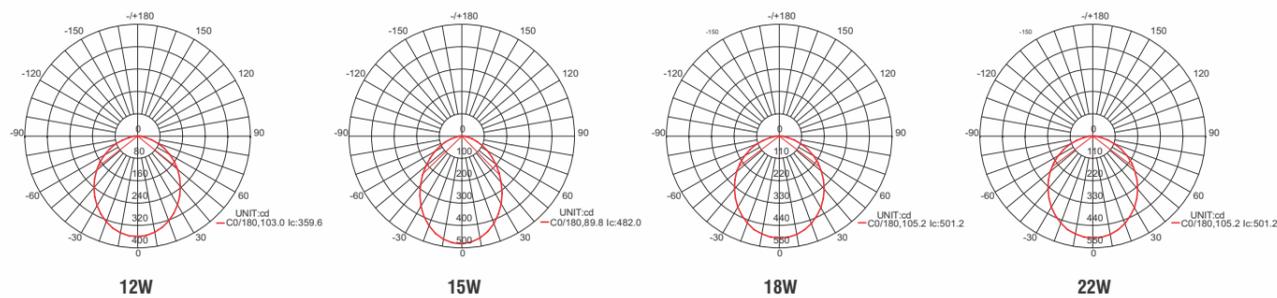
# LED DOWN LIGHT FLAT SERIES (SQUARE)



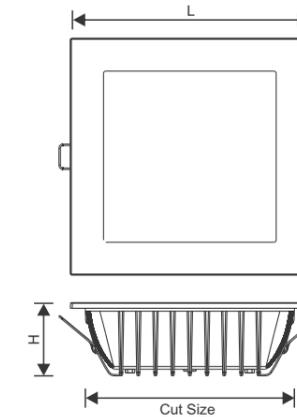
EXPLODED VIEW



## LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Size (inches)	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
									L	H	Cut Size		
FLI016X12W65K	6	12W	100V-300V	6500K	900	<20%	>80	0.90	160	50	140	25,000 Hrs	16 Nos
FLI016X15W65K	6	15W	100V-300V	6500K	1125	<20%	>80	0.90	160	50	140	25,000 Hrs	16 Nos
FLI018X18W65K	8	18W	100V-300V	6500K	1350	<20%	>80	0.90	194	60	160	25,000 Hrs	12 Nos
FLI018X22W65K	8	22W	100V-300V	6500K	1650	<20%	>80	0.90	194	60	160	25,000 Hrs	12 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Outer frame made out of engineering plastic material. Aesthetics plain front look and heat sink made out of pressure die cast aluminium (LM6) with white powder coating. Complete with LED and LED driver duly wired upto terminal block
- Diffuser: 2.0 to 2.5mm thick computerized designed highly reflective material with inbuilt state of art optical design which enhances light output
- LED fixing system is as per European Standard
- Finish: White powder coated



## APPLICATIONS



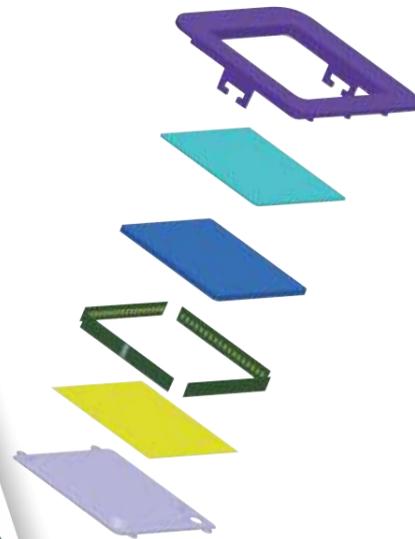
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT SLIM SERIES (SQUARE)

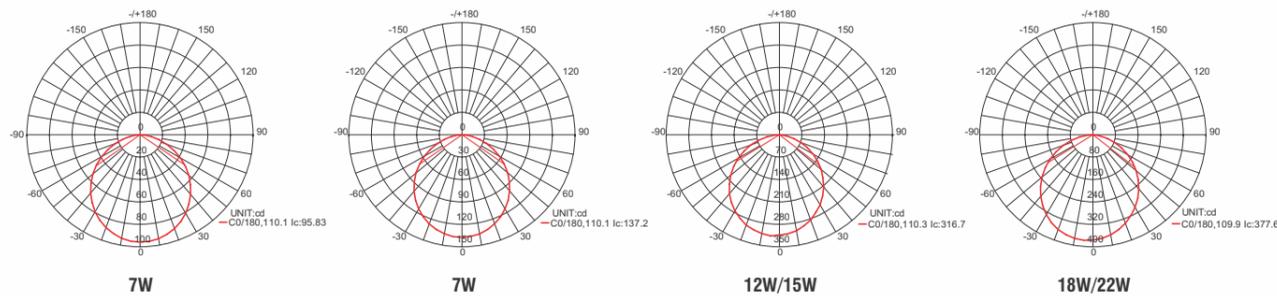
# LED DOWN LIGHT SLIM SERIES (SQUARE)



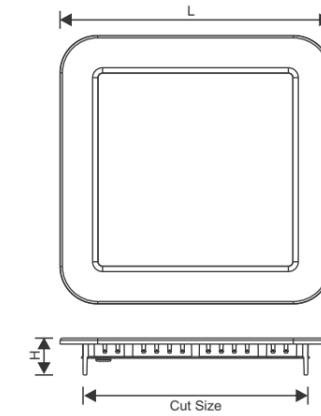
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Size (inches)	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
									L	H	Cut Size		
FLI024X5W65K	4	5W	100V-300V	6500K	375	<20%	>80	0.90	118	25	98	25,000 Hrs	16 Nos
FLI024X7W65K	4	7W	100V-300V	6500K	525	<20%	>80	0.90	118	25	98	25,000 Hrs	16 Nos
FLI026X12W65K	6	12W	100V-300V	6500K	900	<20%	>80	0.90	180	25	150	25,000 Hrs	16 Nos
FLI026X15W65K	6	15W	100V-300V	6500K	1150	<20%	>80	0.90	180	25	150	25,000 Hrs	16 Nos
FLI028X18W65K	8	18W	100V-300V	6500K	1350	<20%	>80	0.90	228	25	210	25,000 Hrs	12 Nos
FLI028X22W65K	8	22W	100V-300V	6500K	1650	<20%	>80	0.90	228	25	210	25,000 Hrs	12 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Aluminium housing
- LED fixing system is as per European Standard



## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT ADJUSTABLE (COB)

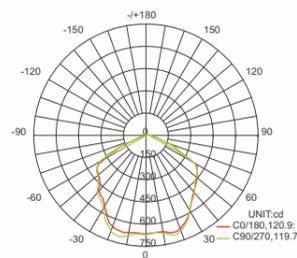
# LED DOWN LIGHT ADJUSTABLE (COB)



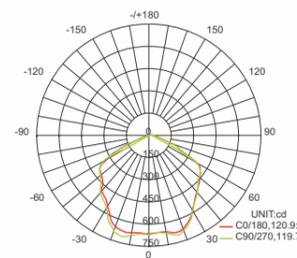
EXPLODED VIEW



LIGHT DISTRIBUTION

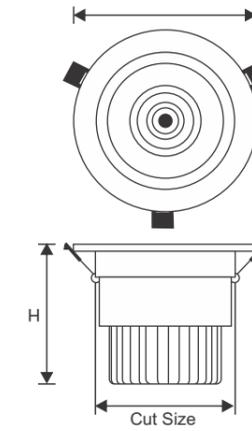


25W



35W

## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								H	Cut Size			
FLO0125W65K	25W	100V-300V	6500K	2250	<20%	>80	0.90	140	96	112	25,000 Hrs	12 Nos
FLO0135W65K	35W	100V-300V	6500K	3150	<20%	>80	0.90	160	96	135	25,000 Hrs	12 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Adjustable aluminium die cast frame housing complete with PC reflector moulding.
- Clear float glass lens.
- Chip on board.
- LED fixing system is as per European Standard.
- Finish: White powder coated.



## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT STEP (COB)

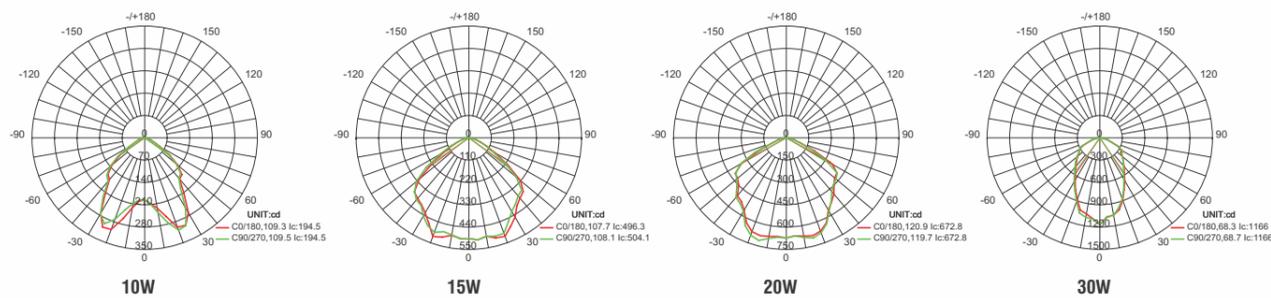
# LED DOWN LIGHT STEP (COB)



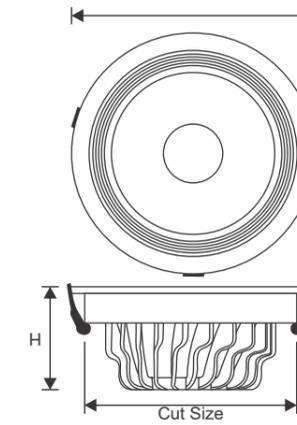
**EXPLODED VIEW**



**LIGHT DISTRIBUTION**



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								H	Cut Size			
FLO0210W65K	10W	100V-300V	6500K	900	<20%	>80	0.90	120	85	92	25,000 Hrs	12 Nos
FLO0215W65K	15W	100V-300V	6500K	1350	<20%	>80	0.90	120	85	92	25,000 Hrs	12 Nos
FLO0220W65K	20W	100V-300V	6500K	1800	<20%	>80	0.90	200	83	180	25,000 Hrs	12 Nos
FLO0230W65K	30W	100V-300V	6500K	2700	<20%	>80	0.90	225	96	200	25,000 Hrs	12 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Aluminium die cast frame housing complete with PC reflector moulding.
- Clear float glass lens.
- Chip on board.
- LED fixing system is as per European Standard.
- Finish: White powder coated.



## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED DOWN LIGHT SURFACE SERIES (ROUND)

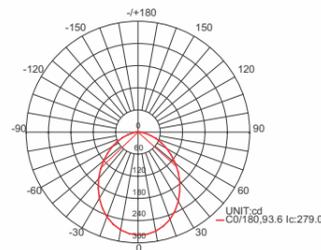
# LED DOWN LIGHT SURFACE SERIES (ROUND)



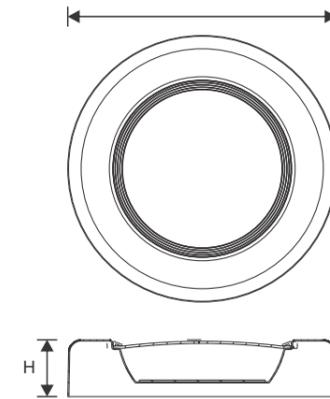
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Size (inches)	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)		Life (Upto)	Packing
										H		
FLJ018X15W65K	8	15W	100V-300V	6500K	1350	<20%	>80	0.90	230	55	25,000 Hrs	12 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look
- Protection: IP40

## CONSTRUCTION

- Outer body made out of spun aluminium sheet and front ring made out of spun M.S. steel sheet. Complete with LED and LED Driver duly wired upto terminal block.
- Diffuser : 2.0 to 2.5 mm thick computerized designed highly reflective material with inbuilt state of art optical design which enhances light output.
- LED fixing system is as per European Standard.
- Finish: White powder coated.

## APPLICATIONS



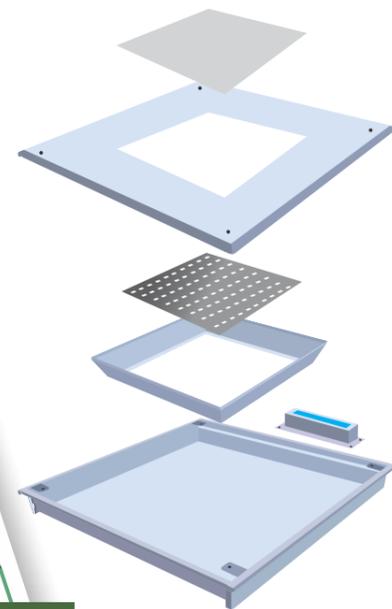
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED PANEL LIGHT BOX SERIES

# LED PANEL LIGHT BOX SERIES

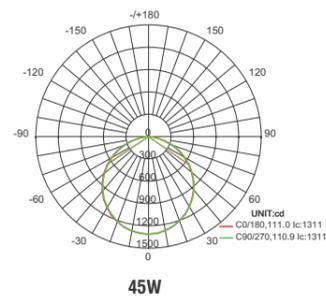
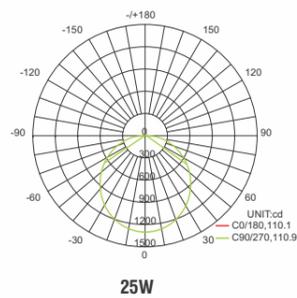


**EXPLODED VIEW**

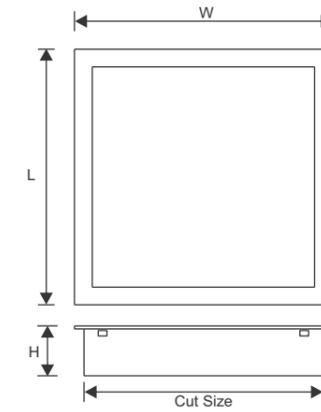


Diffused Series    Sparkle Series    Prismatic Series

## LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)				Life (Upto)	Packing
								L	W	H	Cut Size		
FLK012X245WS65K	45W	100V-300V	6500K	3600	<15%	>80	0.90	592	592	60	580	25,000 Hrs	2 Nos.
FLK012X245WP65K	45W	100V-300V	6500K	3600	<15%	>80	0.90	592	592	60	580	25,000 Hrs	2 Nos.
FLK012X245WD65K	45W	100V-300V	6500K	3600	<15%	>80	0.90	592	592	60	580	25,000 Hrs	2 Nos.
FLK012X225WD65K	25W	100V-300V	6500K	2000	<15%	>80	0.90	592	592	60	580	25,000 Hrs	2 Nos.
FLK012X225WB65K	25W	100V-300V	6500K	2000	<15%	>80	0.90	592	592	60	580	25,000 Hrs	2 Nos.
FLK012X225WP65K	25W	100V-300V	6500K	2000	<15%	>80	0.90	592	592	60	580	25,000 Hrs	2 Nos.
FLK011X125WS65K	25W	100V-300V	6500K	2000	<15%	>80	0.90	291	291	61	274	25,000 Hrs	8 Nos.
FLK011X125WP65K	25W	100V-300V	6500K	2000	<15%	>80	0.90	291	291	61	274	25,000 Hrs	8 Nos.
FLK011X125WD65K	25W	100V-300V	6500K	2000	<15%	>80	0.90	291	291	61	274	25,000 Hrs	8 Nos.

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- CRCA sheet housing complete with LED and LED Driver duly wired upto terminal block for 2x2 panel
- Outer frame made out of engineering plastic material for 1x1 panel
- Diffuser: 2.0 to 2.5mm thick computerized designed diffuser which gives an appealing design and enhances light output
- LED fixing system is as per European Standard
- Finish: White powder coated



## APPLICATIONS



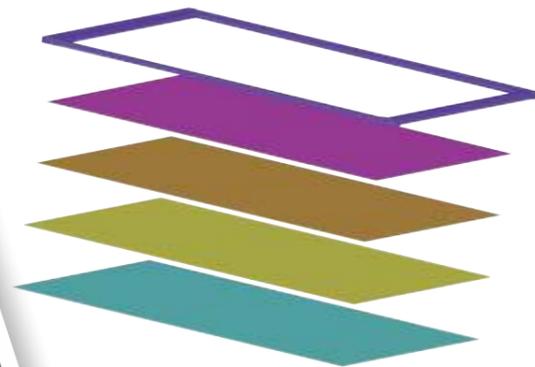
Conforming Standards: LM- 79-80 & Photo Biological Test IEC62471

# LED PANEL LIGHT SLIM SERIES (SURFACE)

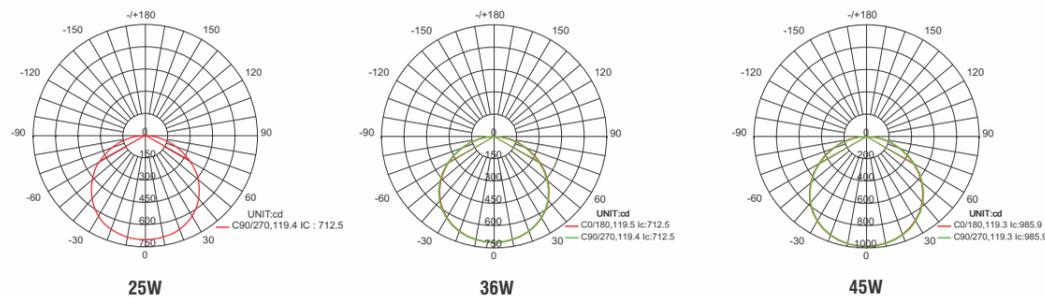
# LED PANEL LIGHT SLIM SERIES (SURFACE)



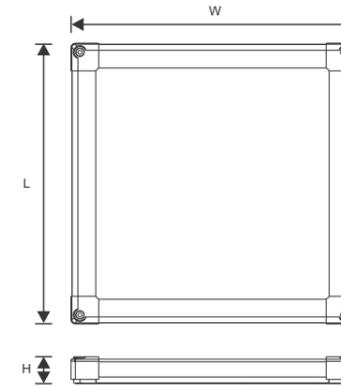
EXPLODED VIEW



## LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLK022X236W65K	36W	230V	6500K	2700	<15%	>80	0.90	610	610	12	25,000 Hrs	4 Nos
FLK022X245W65K	45W	230V	6500K	3300	<15%	>80	0.90	610	610	12	25,000 Hrs	4 Nos
FLK021X125W65K	25W	230V	6500K	1900	<15%	>80	0.90	310	310	12	25,000 Hrs	5 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## FEATURES

- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Extruded aluminium frame housing complete with PC diffuser, side embedded LED's and LED driver duly wired up to terminal PCB
- 3mm thick latest technology light guide & designed thin diffuser and reflectors which gives an appealing 'smooth, diffused & comfort cool' light
- LED fixing system is as per European Standard.
- Finish: White powder coated.



## APPLICATIONS



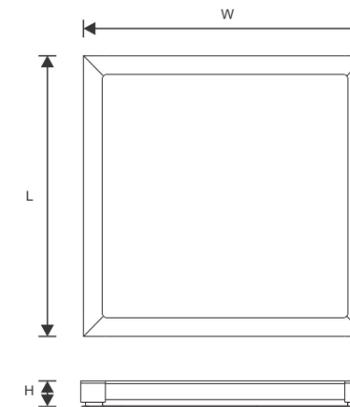
Conforming Standards: LM- 79-80 & Photo Biological Test IEC62471

# LED PANEL LIGHT SLIM SERIES (ARMSTRONG)

# LED PANEL LIGHT SLIM SERIES (ARMSTRONG)



## DIMENSIONAL DRAWING

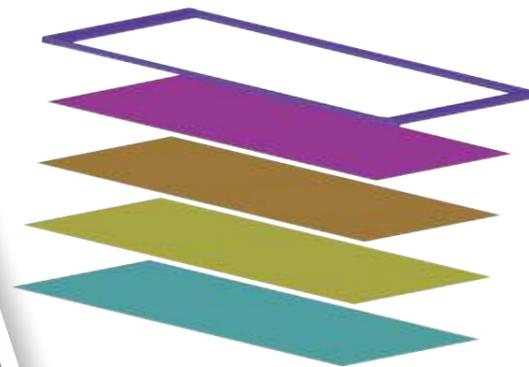


## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLK032X236W65K	36W	100V-300V	6500K	2700	<15%	>80	0.90	600	600	12	25,000 Hrs	4 Nos
FLK032X245W65K	45W	100V-300V	6500K	3300	<15%	>80	0.90	600	600	12	25,000 Hrs	4 Nos
FLK031X125W65K	25W	100V-300V	6500K	1900	<15%	>80	0.90	300	300	12	25,000 Hrs	5 Nos
FLK031X445W65K	45W	100V-300V	6500K	3300	<15%	>80	0.90	1200	300	12	25,000 Hrs	4 Nos

WARM/NEUTRAL WHITE colour options may be available on request.

## EXPLODED VIEW



## FEATURES

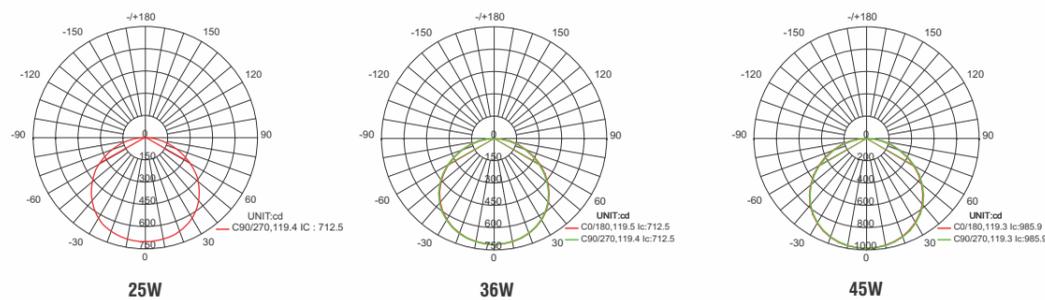
- Long Life • Eco Friendly • No Mercury • No UV • Elegant Look

## CONSTRUCTION

- Extruded aluminium frame housing complete with PC diffuser, side embedded LED's and LED driver duly wired up to terminal PCB
- 3mm thick latest technology light guide & designed thin diffuser and reflectors which gives an appealing 'smooth, diffused & comfort cool' light
- LED fixing system is as per European Standard.
- Finish: White powder coated.



## LIGHT DISTRIBUTION



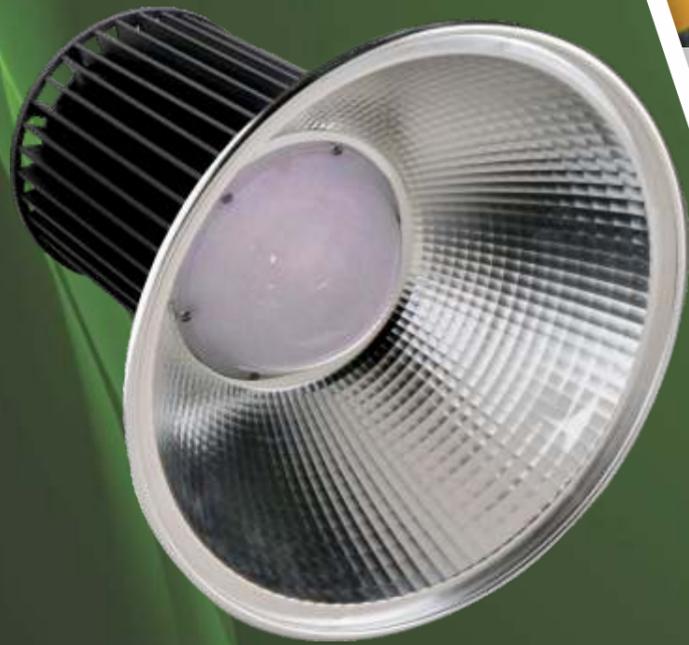
## APPLICATIONS



Conforming Standards: LM- 79-80 & Photo Biological Test IEC62471

# LED HI-BAY LIGHT

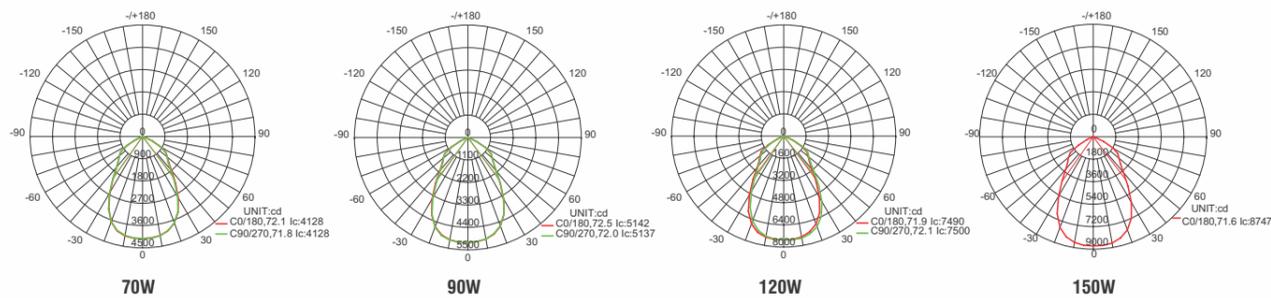
# LED HI-BAY LIGHT



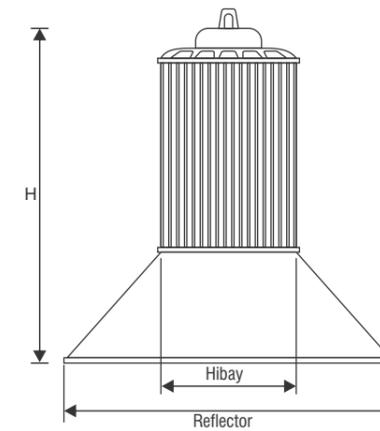
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								H	Hi-bay	Reflector		
FLL0170W65K	70W	100V-300V	6500K	6300	<10%	>70	0.95	225	270	510	25,000 Hrs	1 No
FLL0190W65K	90W	100V-300V	6500K	8100	<10%	>70	0.95	225	270	510	25,000 Hrs	1 No
FLL01120W65K	120W	100V-300V	6500K	10800	<10%	>70	0.95	225	270	510	25,000 Hrs	1 No
FLL01150W65K	150W	100V-300V	6500K	13500	<10%	>70	0.95	225	300	510	25,000 Hrs	1 No

WARM/NEUTRAL WHITE colour options may be available on request.

\*Higher Lumen Products/Higher Wattages may also be available on customers requirement.

## FEATURES

- Suitable for 9-15 mtr height
- Instant start, suitable for frequent switching places
- No glare or flicker, reduce visual fatigue, No maintenance
- Beam Angle : 130 degree
- Environmentally safe
- Heat dissipation technology design
- Ingress Protection: IP54

## CONSTRUCTION

- Housing: made out of High Pressure Die Cast aluminium Material with PC lenses module.
- LED fixing system is as per European Standard.
- SMPS Based LED Driver : CC/CV type with over load and short circuit protection.



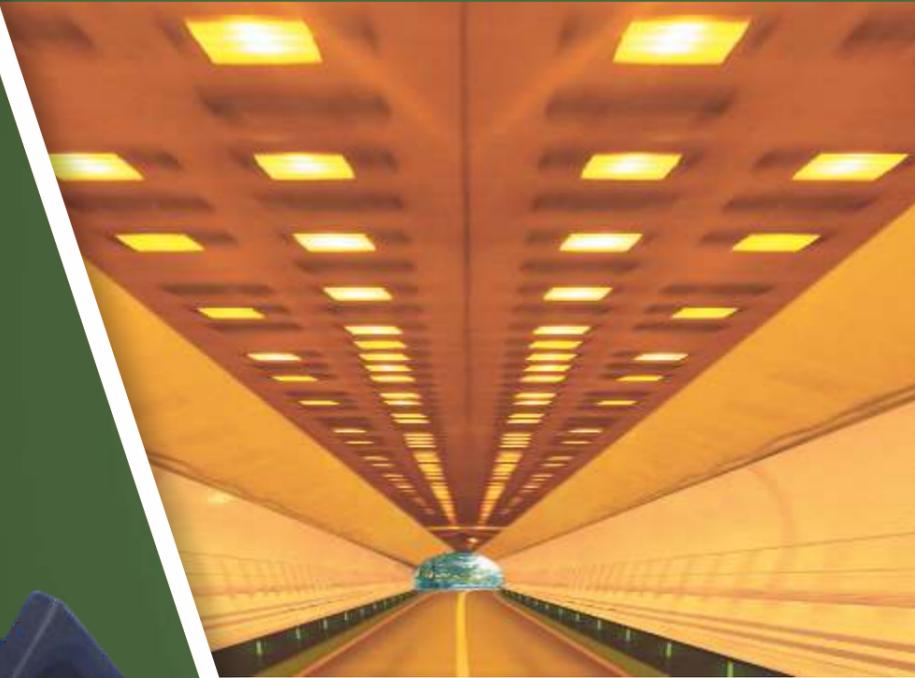
## APPLICATIONS



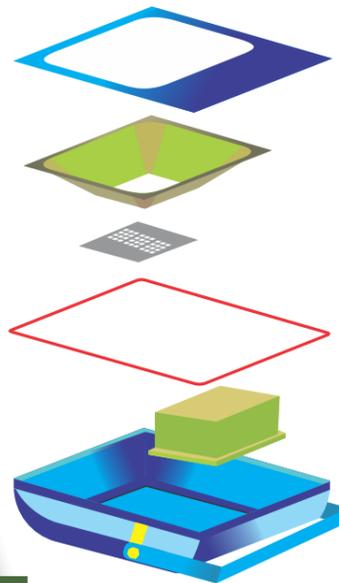
Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED FLOOD LIGHT

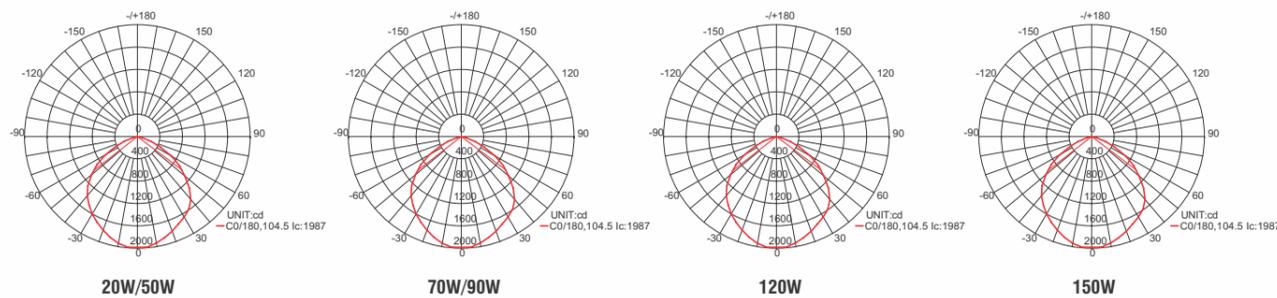
# LED FLOOD LIGHT



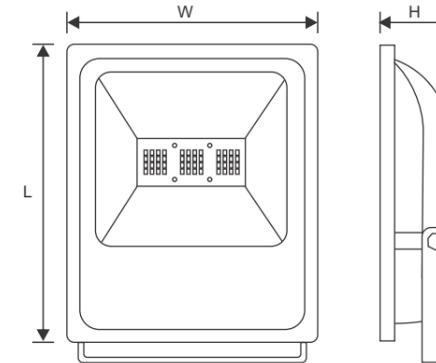
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLM0120W65K	20W	100V-300V	6500K	1800	<10%	>70	0.95	225	185	50	50,000 Hrs	1 No
FLM0150W65K	50W	100V-300V	6500K	4500	<10%	>70	0.95	275	230	90	50,000 Hrs	1 No
FLM0150W65K-H	50W	100V-300V	6500K	5000	<10%	>70	0.95	275	230	90	50,000 Hrs	1 No
FLM0170W65K	70W	100V-300V	6500K	6300	<10%	>70	0.95	275	230	90	50,000 Hrs	1 No
FLM0190W65K	90W	100V-300V	6500K	8100	<10%	>70	0.95	345	295	90	50,000 Hrs	1 No
FLM01120W65K	120W	100V-300V	6500K	10800	<10%	>70	0.95	315	330	95	50,000 Hrs	1 No
FLM01150W65K	150W	100V-300V	6500K	13500	<10%	>70	0.95	315	330	95	50,000 Hrs	1 No

WARM/NEUTRAL WHITE colour options may be available on request.

\*Higher Lumen Products/Higher Wattages may also be available on customers requirement.

## FEATURES

- Wide Beam Angle 120 degree
- No Glare, no flash
- Superior Aesthetics
- No maintenance
- Eco Friendly, No UV, No Mercury
- Over load protection, short circuit protection and protection against lightning strike
- Constant current drive, low current fluctuation, high efficient and long life span
- Ingress Protection: IP65

## CONSTRUCTION

- Housing: made out of Aluminium Alloy
- LED fixing system is as per European Standard
- SMPS Based LED Driver: CC/CV type with over load and short circuit protection



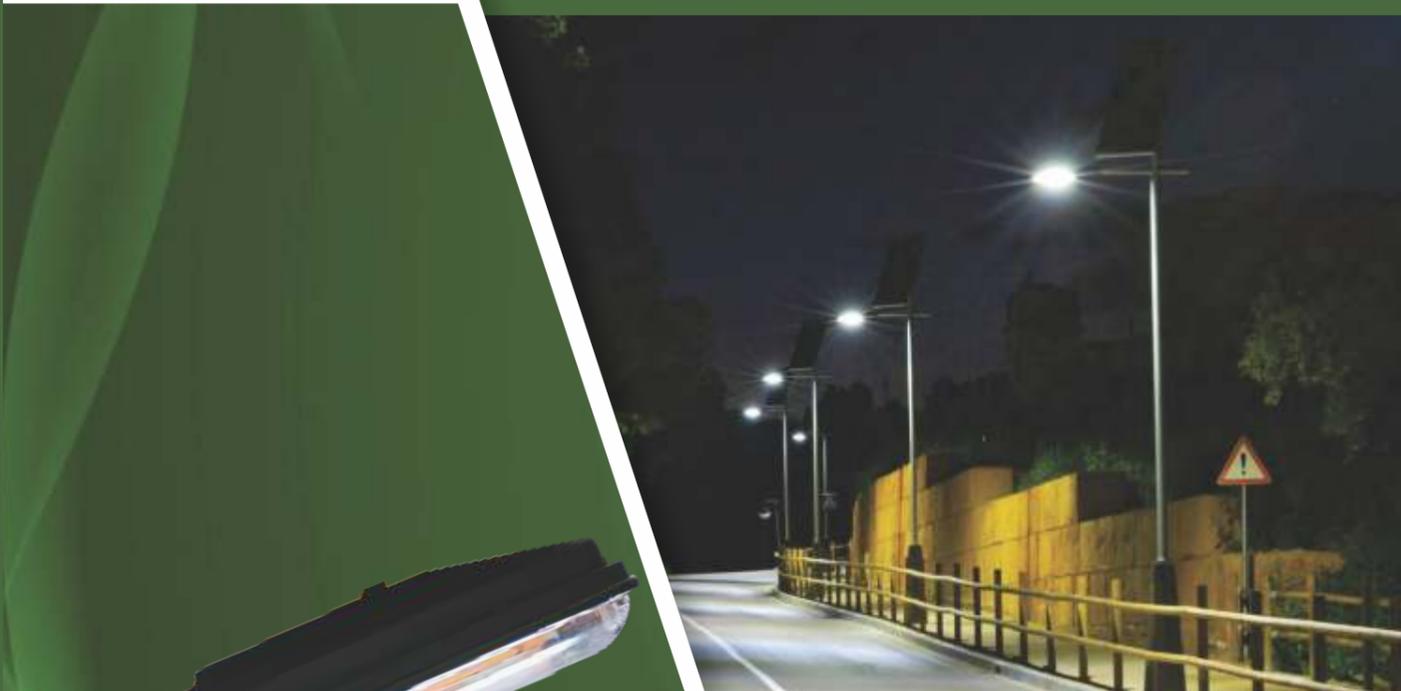
## APPLICATIONS



Conforming Standards: LM- 80 & Photo Biological Test IEC62471

# LED STREET LIGHT (SOLAR)

# LED STREET LIGHT (SOLAR)



12W & 15W

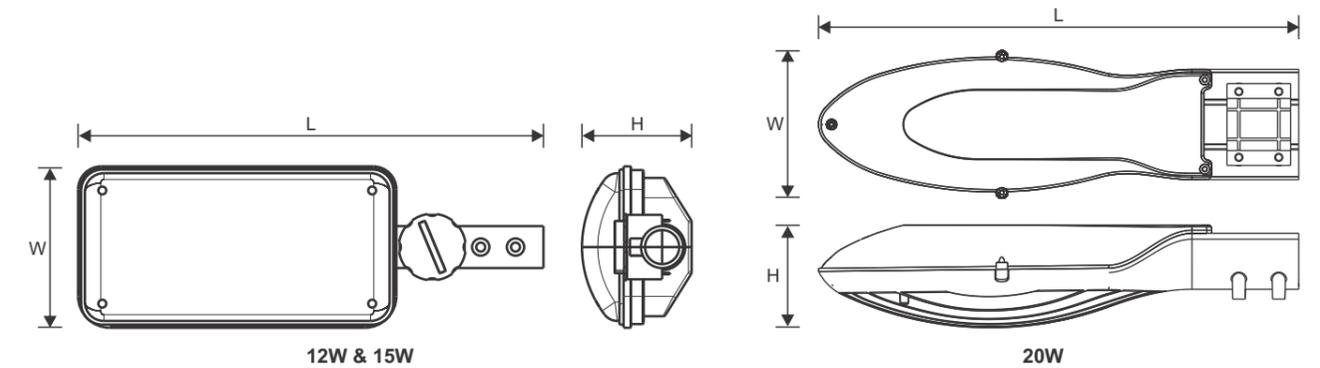


20W

## EXPLODED VIEW



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage (dc)	Colour Temp.	Initial Lumens	CRI	Dimensions (mm)			Life (Upto)	Packing
						L	W	H		
FLN0112W65K	12W	10V-14.5V	6500K	1140	>70	440	155	115	50,000 Hrs	1 No.
FLN0115W65K	15W	10V-14.5V	6500K	1425	>70	440	155	115	50,000 Hrs	1 No.
FLN0120W65K	20W	10V-14.5V	6500K	1900	>70	385	120	83	50,000 Hrs	1 No.

WARM/NEUTRAL WHITE colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

## FEATURES

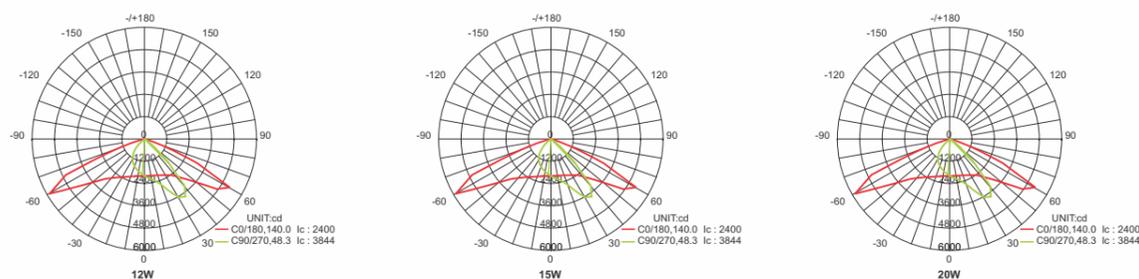
- Eco-Friendly • No Mercury • No UV • Suitable for 3-5 mtr pole • Superior Aesthetics
- Dusk to dawn operation • No maintenance • Input voltage range 12V DC
- Battery Deep discharge and Over charge protection, PV on indication lamp
- Ingress Protection: IP65

## CONSTRUCTION

- 12W & 15W:** Housing: Made out of Nylon plastic material with PC diffuser and high grade aluminium heat sink.
- 20W:** Housing: Made out of High Pressure Die Cast Aluminium Material with PC lenses.
- LED fixing system is as per European Standard.
- Charge controller cum driver : MPPT based CC/CV Charge Controller with inbuilt CC LED Driver with over load and short circuit protection.



## LIGHT DISTRIBUTION



## APPLICATIONS



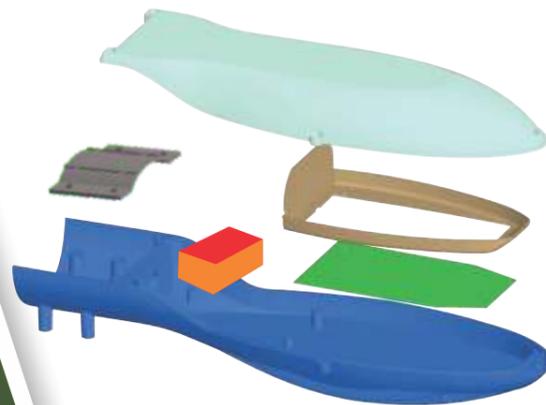
Conforming Standards: • LM- 80 & Photo Biological Test IEC62471 • MNRE Specifications

# LED STREET LIGHT (ECO)

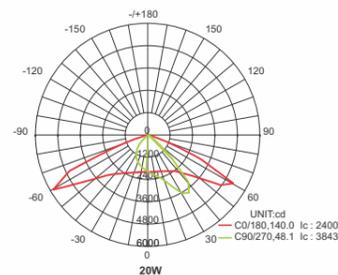
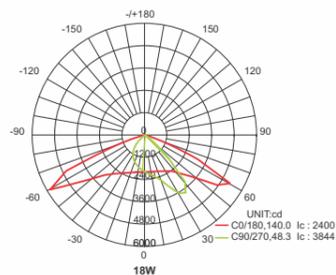
# LED STREET LIGHT (ECO)



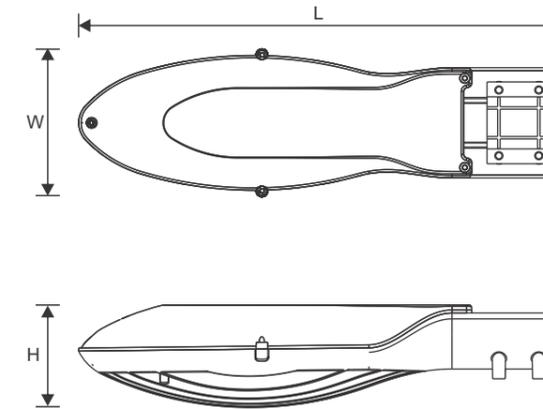
EXPLODED VIEW



LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLN0218W65K	18W	100V-300V	6500K	1620	<10%	>70	0.95	385	120	83	50,000 Hrs	1 No
FLN0220W65K	20W	100V-300V	6500K	1800	<10%	>70	0.95	385	120	83	50,000 Hrs	1 No
FLN0224W65K	24W	100V-300V	6500K	2160	<10%	>70	0.95	385	120	83	50,000 Hrs	1 No

WARM/NEUTRAL WHITE colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

## FEATURES

- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury • Luminous Efficiency >90LM/W • Beam Angle : 130 degree • Over load protection, short circuit protection and protection against lighting strike • Constant current drive, low current fluctuation, high efficient and long life span • Efficient light distribution, perfectly show the luminance and brightness for Roadways as per guidelines • Qualify the most stringent salt spray test; the highest body protection level is up to grade 10
- Ingress Protection: IP65

## CONSTRUCTION

- Housing: Made out of High Pressure Die Cast aluminium Material with PC lenses.
- LED fixing system is as per European Standard.
- SMPS Based LED Driver : CC/CV type with over load and short circuit protection.

## APPLICATIONS



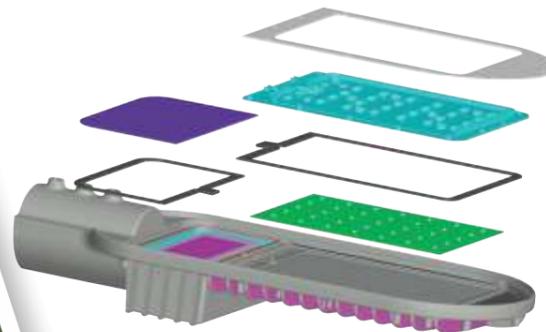
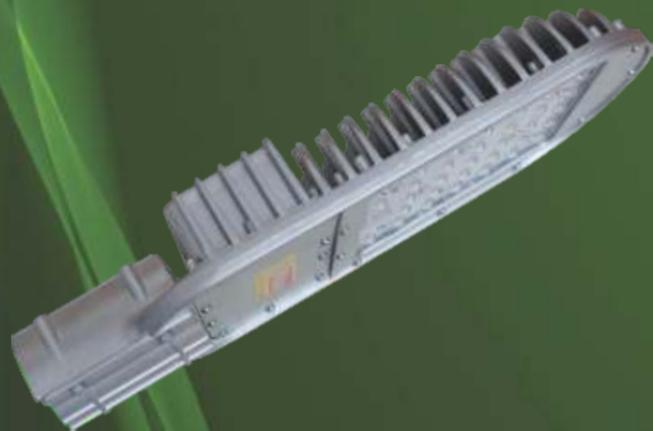
Conforming Standards: • LM- 80 & Photo Biological Test IEC62471

# LED STREET LIGHT

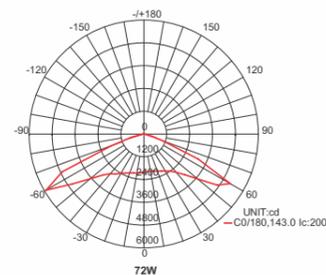
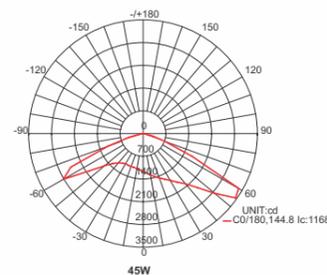
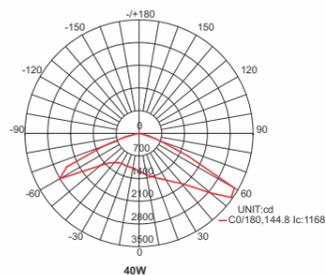
# LED STREET LIGHT



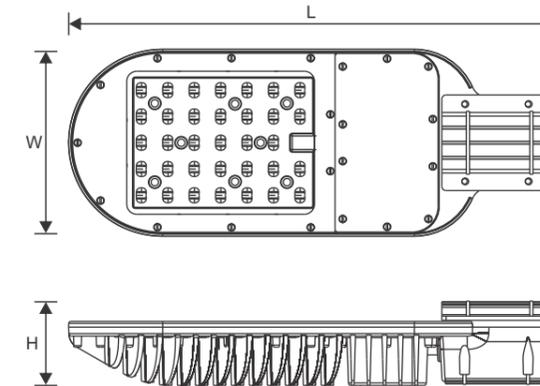
EXPLODED VIEW



## LIGHT DISTRIBUTION



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLN0340W65K	40W	100V-300V	6500K	4000	<10%	>70	0.95	459	178	83	50,000 Hrs	1 No
FLN0345W65K	45W	100V-300V	6500K	4050	<10%	>70	0.95	459	178	83	50,000 Hrs	1 No
FLN0372W65K	72W	100V-300V	6500K	6480	<10%	>70	0.95	459	178	83	50,000 Hrs	1 No

WARM/NEUTRAL WHITE colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

## FEATURES

- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury • Luminous Efficiency >90LM/W • Beam Angle : 130 degree
- Over load protection, short circuit protection and protection against lighting strike • Constant current drive, low current fluctuation, high efficient and long life span • Efficient light distribution, perfectly show the luminance and brightness for Roadways as per guidelines • Qualify the most stringent salt spray test; the highest body protection level is up to grade 10 • Ingress Protection: IP65/66

## CONSTRUCTION

- Housing: Made out of High Pressure Die Cast aluminium Material with PC lenses.
- LED fixing system is as per European Standard.
- SMPS Based LED Driver : CC/CV type with over load and short circuit protection.

## APPLICATIONS



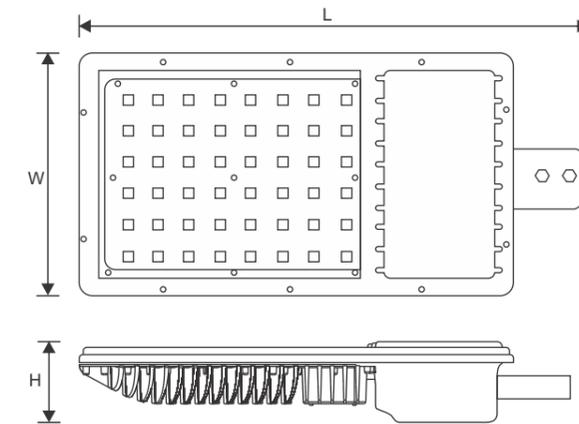
Conforming Standards: • LM- 80 & Photo Biological Test IEC62471

# LED STREET LIGHT

# LED STREET LIGHT



## DIMENSIONAL DRAWING

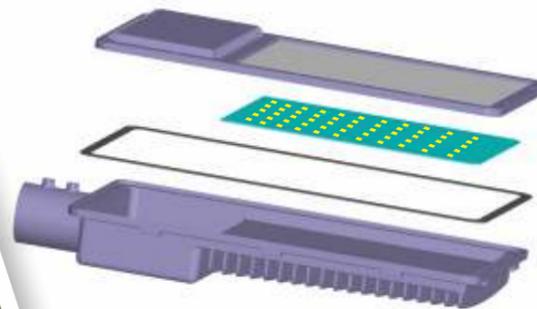


## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLN0390W65K	90W	100V-300V	6500K	8100	<10%	>70	0.95	629	270	83	50,000 Hrs	1 No
FLN03120W65K	120W	100V-300V	6500K	10800	<10%	>70	0.95	629	270	83	50,000 Hrs	1 No
FLN03150W65K	150W	100V-300V	6500K	13500	<10%	>70	0.95	629	270	83	50,000 Hrs	1 No

WARM/NEUTRAL WHITE colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

## EXPLODED VIEW



## FEATURES

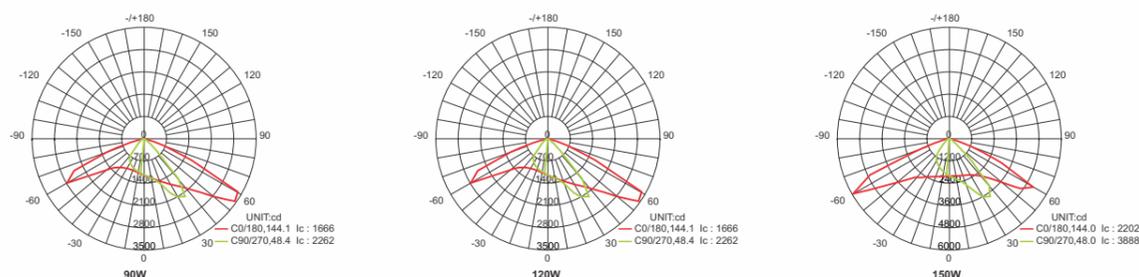
- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury • Luminous Efficiency >90LM/W • Beam Angle : 130 degree
- Over load protection, short circuit protection and protection against lightning strike • Constant current drive, low current fluctuation, high efficient and long life span • Efficient light distribution, perfectly show the luminance and brightness for Roadways as per guidelines • Qualify the most stringent salt spray test; the highest body protection level is up to grade 10 • Ingress Protection: IP65/66

## CONSTRUCTION

- Housing: Made out of High Pressure Die Cast aluminium Material with PC lenses.
- LED fixing system is as per European Standard.
- SMPS Based LED Driver : CC/CV type with over load and short circuit protection.



## LIGHT DISTRIBUTION



## APPLICATIONS



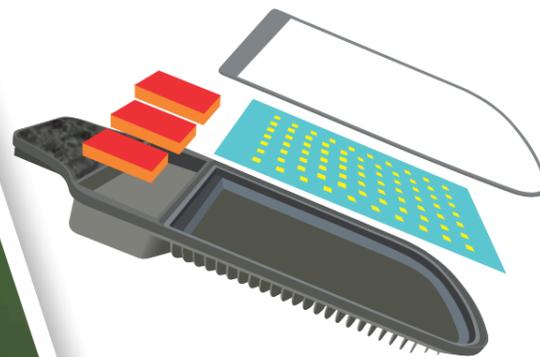
Conforming Standards: • LM- 80 & Photo Biological Test IEC62471

# LED STREET LIGHT

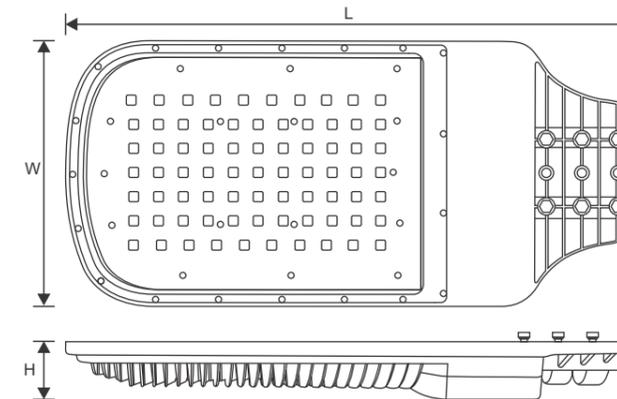
# LED STREET LIGHT



EXPLODED VIEW



## DIMENSIONAL DRAWING

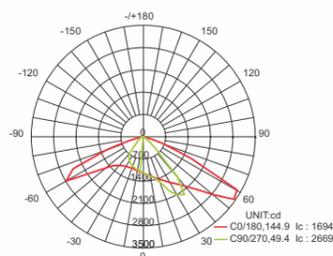


## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLN03200W65K	200W	100V-300V	6500K	18000	<10%	>70	0.95	795	372	75	50,000 Hrs	1 No

**WARM/NEUTRAL WHITE** colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

## LIGHT DISTRIBUTION



## FEATURES

- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury • Luminous Efficiency >90LM/W • Beam Angle : 130 degree • Over load protection, short circuit protection and protection against lighting strike • Constant current drive, low current fluctuation, high efficient and long life span • Efficient light distribution, perfectly show the luminance and brightness for Roadways as per guidelines • Qualify the most stringent salt spray test; the highest body protection level is up to grade 10 • Ingress Protection: IP65/66

## CONSTRUCTION

- Housing: Made out of High Pressure Die Cast aluminium Material with PC lenses.
- LED fixing system is as per European Standard.
- SMPS Based LED Driver : CC/CV type with over load and short circuit protection.

## APPLICATIONS



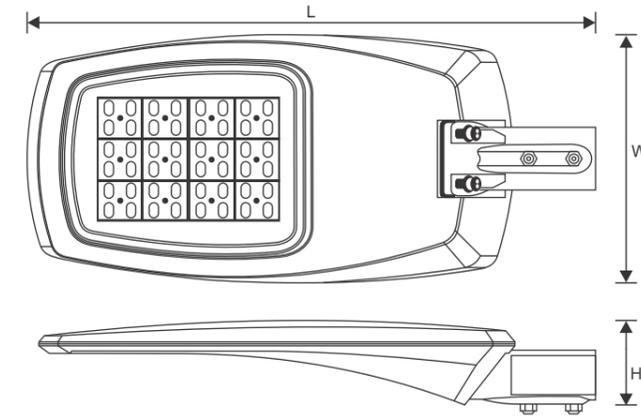
Conforming Standards: • LM- 80 & Photo Biological Test IEC62471

# LED STREET LIGHTING LUMINAIRES (DIMMABLE 1-10V)

# LED STREET LIGHTING LUMINAIRES (DIMMABLE 1-10V)



## DIMENSIONAL DRAWING



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Input Current	iTHD	Power Factor	Colour Temp.	CRI	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLN04100W65K	100W	240V/50Hz	450mA	<10%	0.95	6500K	>70	630	300	130	50,000 Hrs	1 No

**WARM/NEUTRAL WHITE** colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

## EXPLODED VIEW



## FEATURES

- Dimmable : 1 - 10V
- Luminous Efficacy : >110LM/W
- Case Temperature : -40C to 85C
- Thermal Protection : Yes, Power derating under over temperature
- Surge Protection : 10KV
- RFI/EMC : IEC 61000-3.2, 3.3
- Insulation : Class-I
- Efficiency : >90%
- Mechanical Strength : IK08
- RoHS Compliant
- Cut-Off Light Distribution
- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury
- Over load protection, short circuit protection and protection against lighting strike
- Constant current drive
- Efficient light distribution, perfectly show the luminance and brightness for Roadways as per guidelines
- Ingress Protection: IP66
- Ease of component replacement & End of life disassembly

## APPLICATIONS



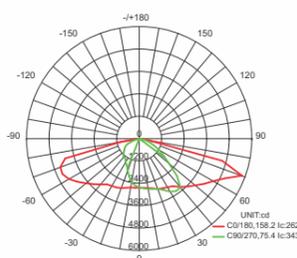
## CONSTRUCTION

- The Luminaire body is made of high pressure die cast aluminium with high corrosive resistance. Cover of the luminaire is made of high heat & shock resistant tempered glass.
- SMPS based LED Driver: CC/CV operation with Short circuit and open circuit protection.



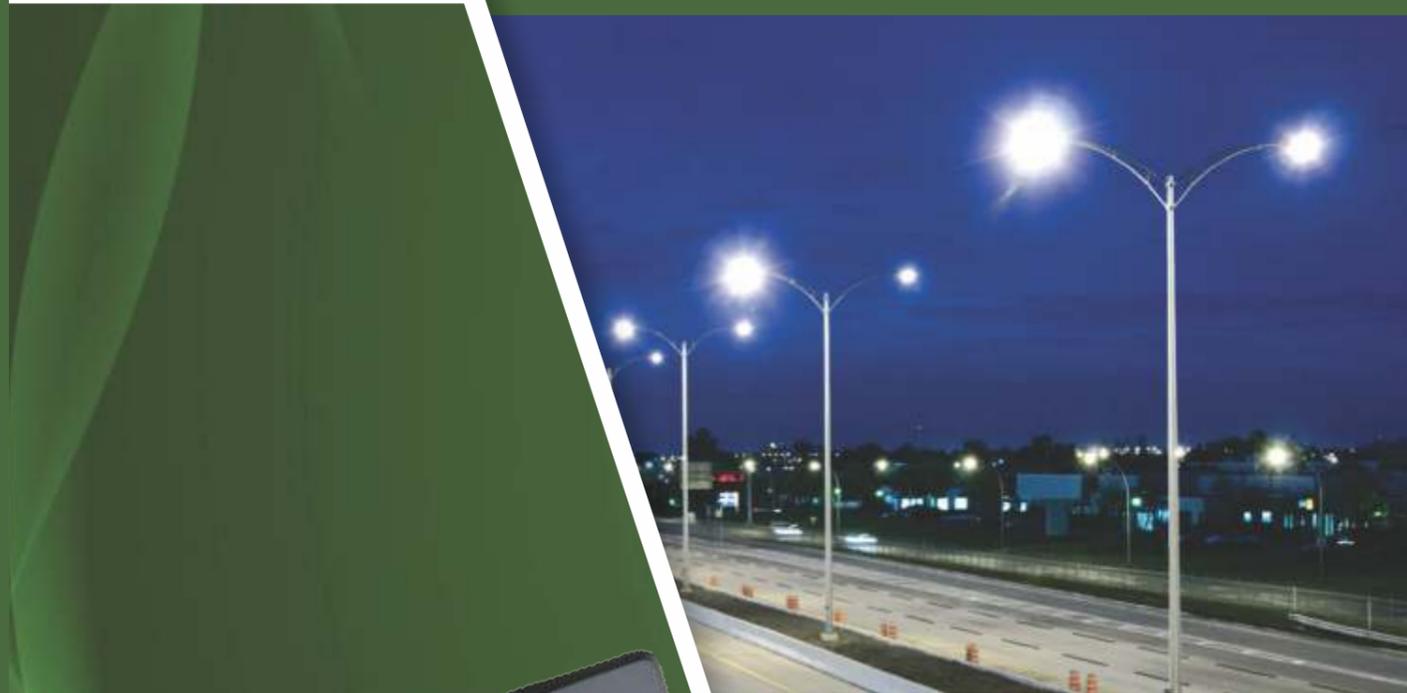
Conforming Standards: • LM- 80 & Photo Biological Test IEC62471

## LIGHT DISTRIBUTION

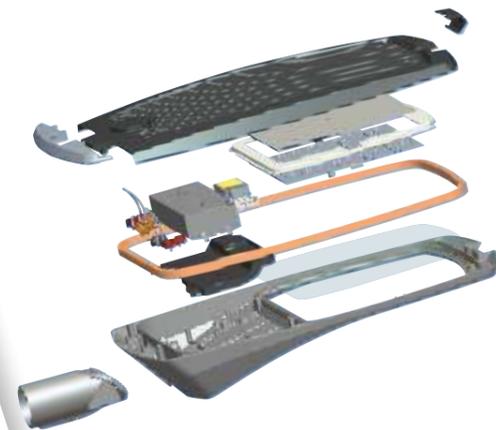


# LED STREET LIGHTING LUMINAIRES (DIMMABLE 1-10V)

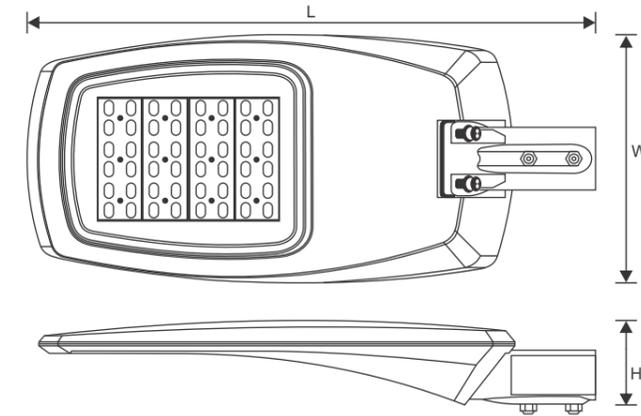
# LED STREET LIGHTING LUMINAIRES (DIMMABLE 1-10V)



### EXPLODED VIEW



### DIMENSIONAL DRAWING



### SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Input Current	iTHD	Power Factor	Colour Temp.	CRI	Dimensions (mm)			Life (Upto)	Packing
								L	W	H		
FLN04170W65K	170W	240V/50Hz	700mA	<10%	0.95	6500K	>70	750	366	130	50,000 Hrs	1 No

**WARM/NEUTRAL WHITE** colour options may be available on request.  
\*Higher lumen products are available based on customer requirements.

### FEATURES

- Dimmable : 1 - 10V
- Luminous Efficacy : >110LM/W
- Case Temperature : -40C to 85C
- Thermal Protection : Yes, Power derating under over temperature
- Surge Protection : 10KV
- RFI/EMC : IEC 61000-3.2, 3.3
- Insulation : Class-I
- Efficiency : >90%
- Mechanical Strength : IK08
- RoHS Compliant
- Cut-Off Light Distribution
- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury
- Over load protection, short circuit protection and protection against lighting strike
- Constant current drive
- Efficient light distribution, perfectly show the luminance and brightness for Roadways as per guidelines
- Ingress Protection: IP66
- Ease of component replacement & End of life disassembly

### APPLICATIONS



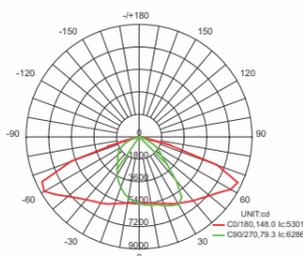
### CONSTRUCTION

- The Luminaire body is made of high pressure die cast aluminium with high corrosive resistance. Cover of the luminaire is made of high heat & shock resistant tempered glass.
- SMPS based LED Driver: CC/CV operation with Short circuit and open circuit protection.



Conforming Standards: • LM- 80 & Photo Biological Test IEC62471

### LIGHT DISTRIBUTION



## LED GARDEN LIGHT (POST TOP)



### SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)			Life (Upto)	Packing
								H	Mounting Bracket			
FLG0110WLS65K	10W	100V-300V	6500K	1200	<15%	>70	0.90	1000	400	75 (max)	25,000 Hrs	1 No.
FLG0115WLS65K	15W	100V-300V	6500K	1800	<15%	>70	0.90	1000	400	75 (max)	25,000 Hrs	1 No.
FLG0210WOS65K	10W	100V-300V	6500K	1200	<15%	>70	0.90	1370	450	75 (max)	25,000 Hrs	1 No.
FLG0215WOS65K	15W	100V-300V	6500K	1800	<15%	>70	0.90	1370	450	75 (max)	25,000 Hrs	1 No.
FLG0310WES65K	10W	100V-300V	6500K	1800	<15%	>70	0.90	1370	450	75 (max)	25,000 Hrs	1 No.
FLG0315WES65K	15W	100V-300V	6500K	1800	<15%	>70	0.90	1370	450	75 (max)	25,000 Hrs	1 No.

WARM/NEUTRAL WHITE colour options may be available on request.

### FEATURES

- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury • Luminous Efficiency >90LM/W • Beam Angle : 130 degree • Eco-Friendly • No Mercury • No UV • Compatible for round & architecture pole
- Rich Aesthetics Round Surface • More than 50% energy saving over CFL/Sodium vapour lamp • Ingress Protection IP65

### CONSTRUCTION

- Made up of single piece polycarbonate glass & spun aluminium canopy for optic housing. Complete with LED and LED Driver duly wired upto mounting clamp.
- Optics : Antiglare 12 to 15 mm thick computerized designed highly reflective material with inbuilt state of art optical design which enhances light output.
- LED fixing system is as per European Standard.
- Finish: Black powder coated.
- Driver : SMPS Based CC/CV Driver with over load and short circuit protection. Conforming to EN-60598-2-1, BS-EN-61347-1 & BS-EN-61347-2-13. LED Driver Insulation upto 3 kV.

### APPLICATIONS



Conforming Standards: • LM-80 & Photo Biological Test IEC62471 • CE Certified LED Driver & Luminaires

## LED GARDEN LIGHT (BOLLARDS)



### SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Colour Temp.	Initial Lumens	THD	CRI	Power Factor	Dimensions (mm)		Life (Upto)	Packing
								H			
FLP016WAS65K	6W	100V-300V	6500K	720	<15%	>70	0.90	200	460	25,000 Hrs	1 No.
FLP019WAS65K	9W	100V-300V	6500K	1080	<15%	>70	0.90	200	460	25,000 Hrs	1 No.
FLP026WCS65K	6W	100V-300V	6500K	720	<15%	>70	0.90	300	750	25,000 Hrs	1 No.
FLP029WCS65K	9W	100V-300V	6500K	1080	<15%	>70	0.90	300	750	25,000 Hrs	1 No.
FLP0312WES65K	12W	100V-300V	6500K	1450	<15%	>70	0.90	270	900	25,000 Hrs	1 No.
FLP046WCS65K	6W	100V-300V	6500K	720	<15%	>70	0.90	215	920	25,000 Hrs	1 No.
FLP049WCS65K	9W	100V-300V	6500K	1080	<15%	>70	0.90	215	920	25,000 Hrs	1 No.

WARM/NEUTRAL WHITE colour options may be available on request.

### FEATURES

- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury • Eco-Friendly • No Mercury • No UV • Design to fix anywhere with the help of fasteners • Rich aesthetics round surface • More than 50% energy saving over CFL/Sodium vapour lamp • Ingress Protection IP65

### CONSTRUCTION

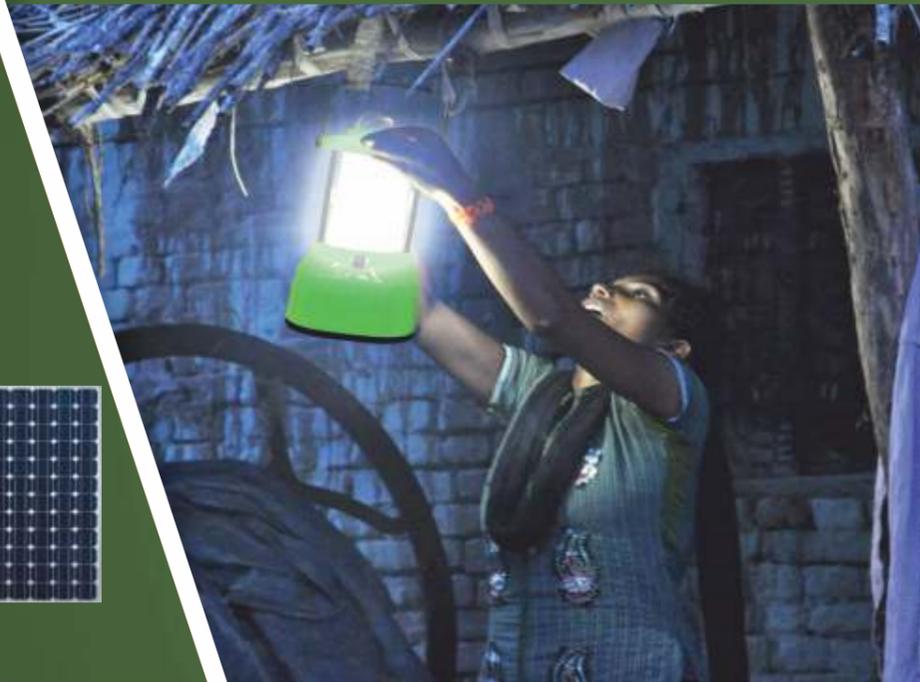
- Aluminium top and GI pipe based structure with injection moulded ribbed and diffused type acrylic and poly cover middle body made up of single piece polycarbonate glass complete with LED and LED driver duly wired upto mounting clamp
- Diffuser: 12 to 15 mm thick computerized highly reflective material with inbuilt state of art optical design which enhances light output
- LED fixing system is as per European Standard.
- Finish: Black powder coated.
- Driver : SMPS Based CC/CV Driver with over load and short circuit protection. Conforming to EN-60598-2-1, BS-EN-61347-1 & BS-EN-61347-2-13. LED Driver Insulation upto 3 kV.

### APPLICATIONS



Conforming Standards: • LM-80 & Photo Biological Test IEC62471

# LED SOLAR LANTERN



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage (dc)	Colour Temp.	Initial Lumens	CRI	Dimensions (mm)			Life (Upto)	Packing
						L	W	H		
FLF013W65K	3W	12V DC	6500K	360	>70	178.5	178.5	326	25,000 Hrs	1 No.
FLF012W65K	2W	3.7V DC	6500K	240	>70	150	150	230	25,000 Hrs	1 No.

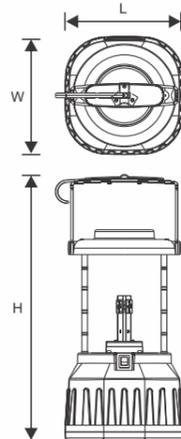
## FEATURES

- No Glare, no flash • Superior Aesthetics • No maintenance • Eco Friendly, No UV, No Mercury
- Eco-Friendly • No Mercury • No UV • Suitable for study • Non-fuel consumption and No fumes
- Superior Aesthetics • No maintenance easy to handle • 100% energy saving
- Healthy battery/deep discharge/charging, PV on indication lamp

## CONSTRUCTION

- Housing: Made out of nylon plastic material with PC diffuser and high grade aluminium heat sink
- LED fixing system is as per European Standard.
- Charge controller cum driver: CC/CV driver with over load and short circuit protection

## DIMENSIONAL DRAWING



## APPLICATIONS



Conforming Standards: • LM-80 & Photo Biological Test IEC62471 • MNRE Specifications

# LED MULTIFUNCTIONAL FLASH LIGHT



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Battery Size	Dimensions (mm)		Life (Upto)	Packing
				70	185		
FLE01MF3W65K	3W Full Scatter throw	8.5V DC-30V DC	4AA size cells	70	185	25,000 Hrs	1 No.

## FEATURES

- 3 W full scatter throw • Uses 4 AA size cells • Highly efficient & reliable (latest Digital technology)
- Uses 38 white LEDs for head & 12 red LEDs for hazard (warning) • IP 65 ingress protection
- Easy to use & carry anywhere feature • Can be powered by an auxiliary supply of 8.5V DC-30 VDC • Has 5 features • LED Life (50,000 hrs)
- Can be readily accommodated in an accessory in automotive 2-Wh/4-Wh • Unit can be put on belt • Low power consumption • Long life for batteries

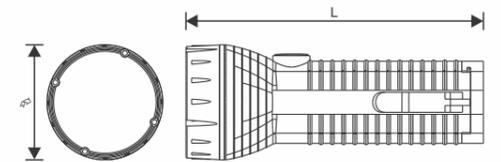
## FUNCTIONS

- Three step lighting with flash
- The first push & release results in the innermost 6 nos. white LED to light up
- The second push & release results in the innermost 13 nos white LEDs to light up
- The third push & release lights up all the 38 nos. white LEDs
- The fourth push & release flashes all the 38 nos. white LEDs
- The fifth push & release will switch off all the 38 white LEDs & flash the 12 nos. Red LEDs to indicate a warning signal (Beacon type)

## USES

Can be used for tracking purposes, as an emergency source of light in Automotive as a hazard indicator, in naval & merchant ships as signal device, in military application, by dentists & physicians for diagnostics or as a general purpose household torch.

## DIMENSIONAL DRAWING



Conforming Standards: • LM-80 & Photo Biological Test IEC62471

# LIFE SAVE LED TORCH



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Working Voltage	Battery Size	Dimensions (mm)		Life (Upto)	Packing
				50	L 173		
FLE01LS2W65K	2W Full Scatter throw	8.5V DC-30V DC	2AA size cells	50	173	25,000 Hrs	1 No.

## FEATURES

- 2 W full scatter throw • Uses 2 AA size cells • Highly efficient & reliable (latest Digital technology) • Uses 1 nos. white power LEDs for head & 12 red LEDs for hazard (warning)
- IP 65 ingress protection • Easy to use & carry anywhere feature • Can be powered by an auxiliary supply of 8.5V DC-30 VDC • Has 3 features • LED Life (50,000 hrs)
- Can be readily accommodated in an accessory in automotive 2-Wh/4-Wh • Unit can be put on belt • Unit can be strip wire etc. • Unit can be used as hammer to break glass in emergency
- Low power consumption • Long life for batteries

**Important Use:** This can be used in automobiles for emergencies like failure of central locking & power windows system-self locking of seat belts and other disaster situations • Also suitable for self defence of ladies

## FUNCTIONS

- Single step lighting with flash
- The first push & release results in the lighting up of power white LED
- The second push & release will switch off the power white LEDs & flash the 12 nos. Red LEDs to indicate a warning signal (Beacon type)
- The third push & release will result in all the LEDs (white & red) to be switched off

## USES

Can be used for tracking purposes, as an emergency source of light in Automotive as a hazard indicator, in naval & merchant ships as signal device, in military application, by dentists & physicians for diagnostics or as a general purpose household torch



Conforming Standards: • LM-80 & Photo Biological Test IEC62471

# HIGH POWER LED TORCH



## SPECIFICATIONS:

CAT. REF.	Rated Wattage	Battery Size	Dimensions (mm)		Life (Upto)	Packing
			58	L 258		
FLE01HP1W65K	1W bright white LED	D1050-R20 Heavy Duty	58	258	25,000 Hrs	1 No.

## FEATURES

- 1 W bright white LED
- Uses 3 heavy duty cells
- Highly efficient & reliable (latest Digital technology)
- IP 65 ingress protection
- Easy to use & carry anywhere feature
- LED Life (50,000 hrs)
- Power LED with highly efficient reflector
- Low power consumption

## FUNCTIONS

- Single step operation
- Push ON/OFF

## USES

Can be used for tracking purposes, as an emergency source of light, naval & merchant ships, in military operations, police petrolling, commandos, by dentists & physicians for diagnostics or as a general purpose household torch.



Conforming Standards: • LM-80 & Photo Biological Test IEC62471

# INTEGRATED PASSENGER INFORMATION SYSTEM



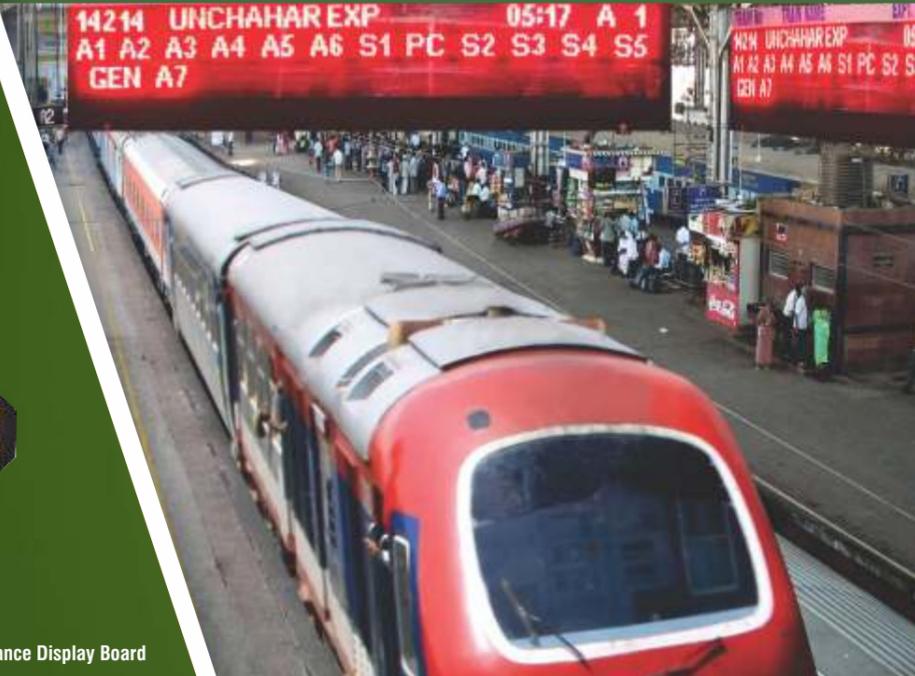
Multiline Display Board



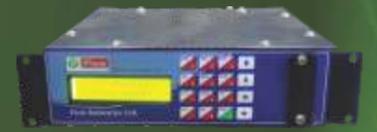
LED Display Inside AC Coaches



Coach Guidance Display Board



# INTEGRATED PASSENGER INFORMATION SYSTEM

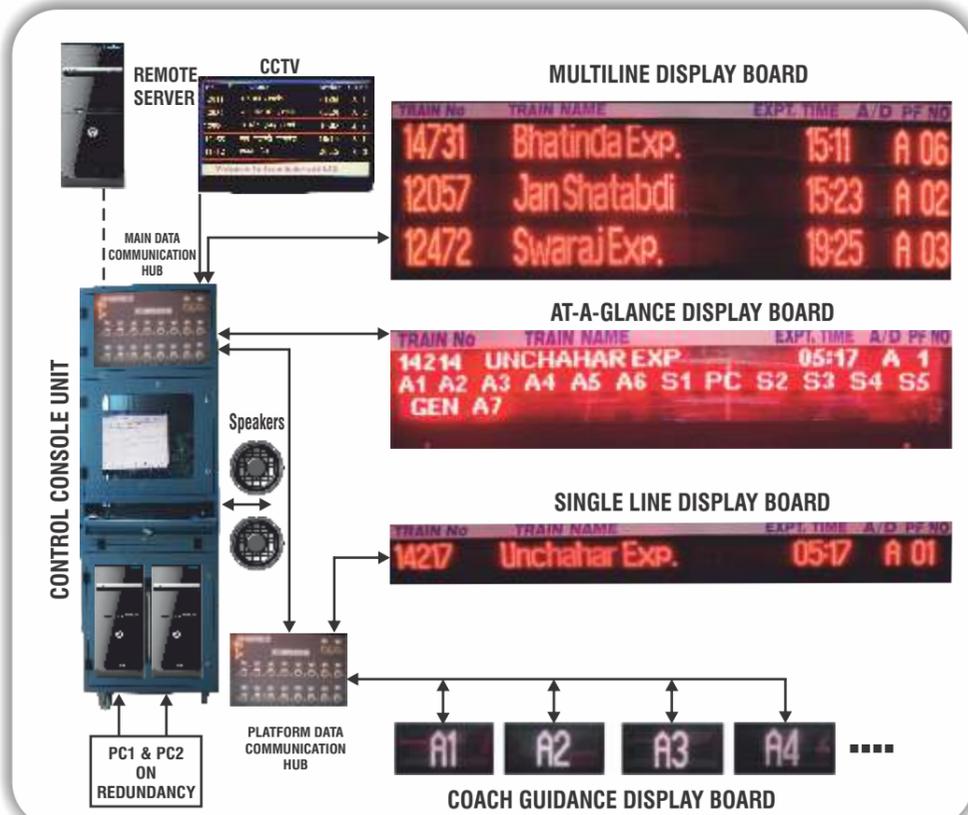


## Train Indication, Coach Guidance and PC Based Announcement System for Indian Railways

Confirming to RDSO SPECIFICATION NO: RDSO/SPN/TC/61/2012 (Rev 3.0)

### System Consists of:

1. Control Console Unit
2. Audio Announcement System
3. CCTV
4. Main Data Communication Hub/ Platform Data Communication Hub
5. Platform Displays (Multiline/ single line Display Board)
6. Coach Guidance Display Board
7. At- A- Glance Display Board



Control Console Unit



LCD



SLDPT-LCD Display for 1st AC Coupe



Master Board Unit & LCD

## Intelligent Transportation Systems with LED displays for Buses

### SYSTEM CONSISTS OF:

1. Driver Controller Unit
2. Front Display Unit
3. Side Display unit
4. Rear Display Unit
5. Internal Display Unit & Voice Announcement System
  - MOUD/JnNURM/ASRTU Compliant Product
  - GPS/GPRS Compatible
  - Windows language user friendly Application Software
  - Route database updation through USB
  - Slim design
  - High bright Day Night viewable LED's

