

The background of the entire page is a dark, out-of-focus photograph of numerous circular light sources, creating a bokeh effect. The lights are primarily in shades of orange, yellow, and white, with some darker, blurred shapes in the background.

**INDUSTRIAL & INDOOR LIGHTING**



# About us



Omnitech Lighting Private Limited (OLT) is an ISO 9001:2015 quality certified LED luminaires manufacturing company specializing in outdoor Flood and Architectural lights that are 100% designed and made in India conforming to the latest Indian and international lighting standards. OLT LED lights have high reliability built into the design through years of R&D and experience.

Omnitech Lighting also undertakes custom design and Manufacturing of project based LED lighting fixtures to suit special applications.

Omnitech Lighting has a modern manufacturing unit located at Greater Noida in Delhi NCR, India. We ensure. All OLT lighting fixtures are tested in-house as well as at NABL accredited labs like UL, Intertek and undergo rigorous testing for extreme temperature and humidity conditions to ensure reliability in all operating conditions.

Photometric design IES files for all OLT luminaires are available to enable customers and architects for design and selection of appropriate type and number of luminaires in any design software like DIALUX, RELUX or AGi32.



# INDUSTRIAL LIGHTING

Bright, uniform and efficient  
LED lighting for  
Industrial applications

## Industrial Lighting



MODOLED - I



MODOLED - II



STELLA



OMEGA



HYDROLED



AeroFlood  
QUBIK-Surface

## MODOLED-|

IP66 IK08



Energy Label A++

## LED INDUSTRIAL MEDIUMBAY &amp; Highbay Light

## DESIGN FEATURES

- High pressure die cast Aluminium alloy housing
- Polyester powder coating matt black / Graphite grey
- Robust, Sleek design with excellent heat dissipation
- Clear 4mm thick toughened glass / polycarbonate.
- Silicon moulded gaskets for IP66 rating
- Integral / Non integral driver with safety diode to protect the LED module against voltage peaks up to 4KV. P.F. > 0.95.
- All Stainless steel - AISI 304 grade hardware
- Industrial installation with Non Integral bay lights facilitate remote drivers placement at easy to maintain locations. In addition, Group / Individual luminaire controls like Dimming / Day light, Motion sensor enabled.
- **ON REQUEST:** Microwave motion sensor, Dimmable / DALI versions, Daylight sensor, Emergency version through lithium Iron battery pack, Mechanical protection guard.

## THERMAL MANAGEMENT

- Generously designed radiator fins in vertical direction to ensure proper air convection

## COMPLIANCES - LUMINAIRE

- As Per IS 10322 (Part5/ Sec.5) 2012 & 2015
- IP66, IK08 as per IEC-EN 62262
- On Request: Surface coating resistant to Salt spray tests pursuant to Standard UNI EN ISO 9227.

## LEDs

- Power LEDs with high efficacy(>150 lm/W), 4000 / 5700K, with Luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs..
- Low junction thermal resistance for long life and low lumen depreciation
- High colour rendering : CRI - 70/80/90

## ELECTRICAL SYSTEM•

- Outdoor rated >90% efficiency constant current drivers with over voltage (440V AC)/Undervoltage, Short circuit & open circuit protection 4KV / 5KV / 6KV inbuilt surge protection
- Optional 10KV / 20 KV external SPD
- Low current harmonics : THD < 10%
- Low flicker : <3%
- Ambient temperature range : -30°C to +50°C

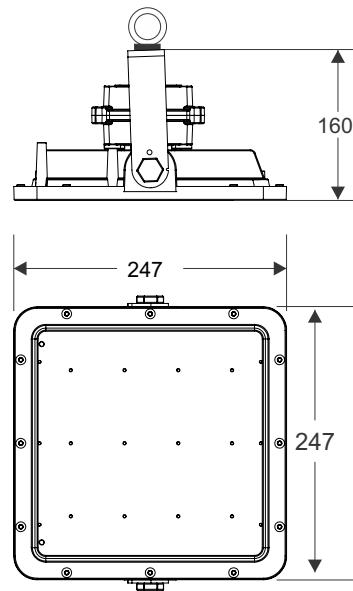
## OPTICAL SYSTEM

- Variety of photometric beam options for - Industrial Bays, Aisle Lighting , Double Asymmetric lighting for Vertical storage racks.
- Structured on high performance optical grade lenses in PMMA / PC
- Photometric design data for all optics available



## MODOLED-I

IP66 IK08

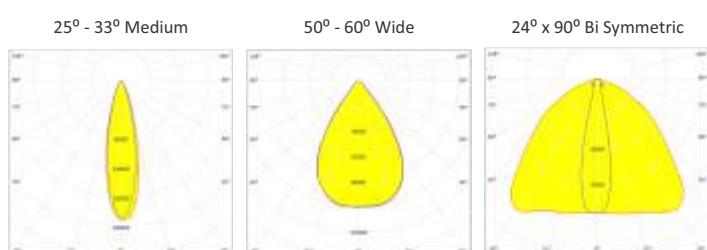


## Technical Parameters

Input AC Voltage	:	100V – 280V AC, 50-60 Hz
Frequency	:	50 / 60 Hz
Luminous Efficacy	:	120 Lumens/Watt
CCT (K)	:	5700K / 4000K / 3000K
Optics	:	10° / 15° / 24° / 38° / 60° / 90° / Elliptical Beam / Double Asymmetric / 20°x 90° Elliptical

## Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	Light Beam	THD	PF	Surge Protection	CCT	CRI
MODOLED-I	OLIL-0075-757-60-00	75	0.325	9000	Symm 60°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIM-0100-757-60-00	100	0.436	12000	Symm 60°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIM-0135-757-60-00	135	0.592	16200	Symm 60°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIM-0150-757-20x90	150	0.655	18000	20°x90°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIM-0150-757-25-00	150	0.655	18000	Symm 25°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIM-0150-757-60-00	150	0.655	18000	Symm 60°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIH-0200-757-20x90	200	0.857	24000	20°x90°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIH-0200-757-FN-00	200	0.875	24000	AsymFN	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIH-0200-757-25-00	200	0.875	24000	Symm 25°	<10%	0.95	4 KV	5700K	70
MODOLED-I	OLIH-0200-757-60-00	200	0.875	24000	Symm 60°	<10%	0.95	4 KV	5700K	70



## MODOLED-II

IP66 IK08



Energy Label A++

## LED INDUSTRIAL HIGHBAY LIGHT

### DESIGN FEATURES

- High pressure die cast Aluminium alloy housing
- Polyester powder coating matt black / Graphite grey
- Robust, Sleek design with excellent heat dissipation
- Clear 4mm thick toughened glass / polycarbonate.
- Silicon moulded gaskets for IP66 rating
- Integral / Non integral driver with safety diode to protect the LED module against voltage peaks up to 4KV. P.F. > 0.95.
- All stainless steel - AISI 304 grade hardware
- Industrial installation with Non integral bay lights facilitate remote drivers placement at easy to maintain locations. In addition, Group / Individual luminaire controls like Dimming / Day light, Motion sensor enabled.
- **ON REQUEST:** Microwave motion sensor, Dimmable / DALI versions, Daylight sensor, Emergency version through lithium Iron battery pack, Mechanical protection guard.

### THERMAL MANAGEMENT

- Generously designed radiator fins in vertical direction to ensure a proper Air convection

### COMPLIANCES - LUMINAIRE

- As Per IS 10322 (Part5/ Sec.5) 2012 & 2015
- IP66, IK08 as per IEC-EN 62262
- **ON REQUEST:** Surface coating resistant to Salt spray tests pursuant to Standard UNI EN ISO 9227.

### LEDs

- Power LEDs with high efficacy(>150 lm/W), 4000 / 5700K, with Luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs..
- Low junction thermal resistance for long life and low lumen depreciation
- High colour rendering : CRI - 70/80/90

### ELECTRICAL SYSTEM•

- Outdoor rated >90% efficiency constant current drivers with over voltage (440V AC)/Undervoltage, Short circuit & open circuit protection 4KV / 5KV / 6KV inbuilt surge protection
- Optional 10KV / 20 KV external SPD
- Low current harmonics : THD < 10%
- Low flicker : <3%
- Ambient temperature range : -30°C to +50°C

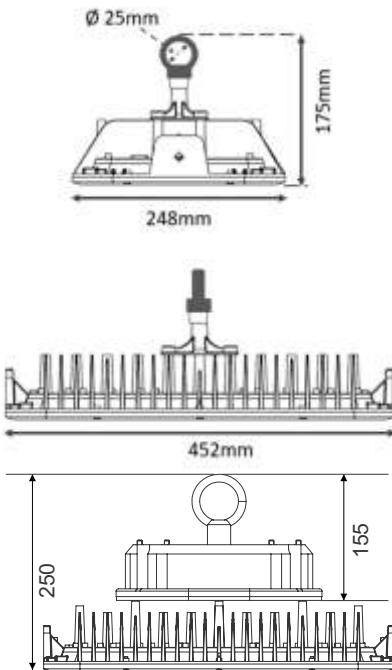
### OPTICAL SYSTEM

- Variety of photometric beam options for - Industrial Bays, Aisle Lighting , Double Asymmetric lighting for Vertical storage racks.
- Structured on high performance optical grade lenses in PMMA / PC
- Photometric design data for all optics available



# MODOLED-II

IP66 IK08

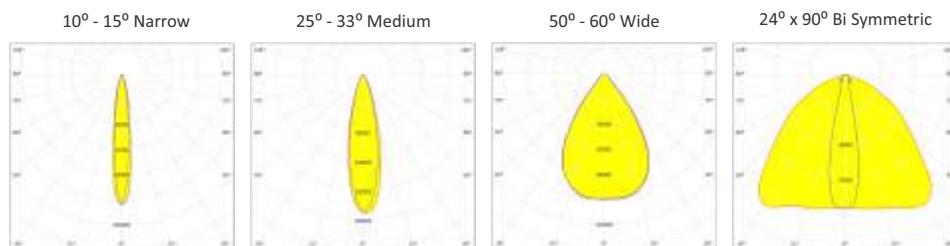


## Technical Parameters

Input AC Voltage	:	100V – 280V AC, 50-60 Hz
Frequency	:	50 / 60 Hz
Luminous Efficacy	:	120 Lumens/Watt
CCT (K)	:	5700K / 4000K / 3000K
Optics	:	10° / 15° / 24° / 38° / 60° / 90° / Elliptical Beam / Double Asymmetric / 20°x 90° Elliptical

## Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	Light Beam	THD	PF	Surge Protection	CCT	CRI
MODOLED-II	OLIH-0200-757-60-00	200	0.850	24000	60° x 60°	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0240-757-60-00	240	1.02	28800	60° x 60°	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0240-757-25-00	240	1.02	28800	25°	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0300-757-10-00	300	1.275	36000	10°	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0300-957-42-00	300	1.275	30900	42°	<10%	0.95	4 KV	5700K	90
MODOLED-II	OLIH-0300-757-60-00	300	1.275	36000	60° x 60°	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0300-757-FN-00	300	1.275	36000	Asymm FN	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0350-757-28-00	350	1.495	42000	28°	<10%	0.95	4 KV	5700K	70
MODOLED-II	OLIH-0350-757-60-00	350	1.495	42000	60° x 60°	<10%	0.95	4 KV	5700K	70

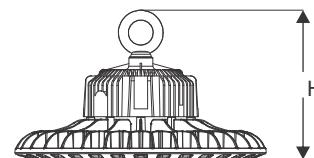
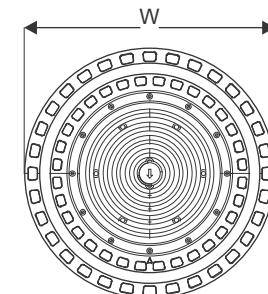


## STELLA

IP66 IK08



Energy Label A++



## LED INDUSTRIAL MEDIUMBAY &amp; Highbay Light

## SPECIFICATION

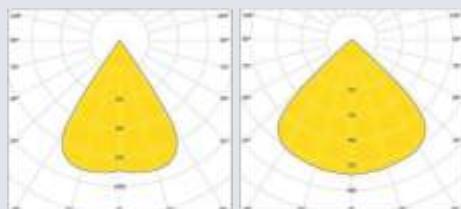
- High pressure die cast Aluminium alloy housing
- Robust, Sleek design with excellent heat dissipation
- Silicon moulded gaskets for IP66 rating
- All stainless steel - AISI 304 grade hardware
- **LED** : Power LEDs with high efficacy (>150 lm/W), 3000/4000/5700K, with luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.
- **Lens** : 30% 60% 90%
- **Diffuser** :Integrated polycarbonate IP66 lens
- **Coating**: Polyester powder coating
- **Driver** : Integral driver with safety diode to protect the LED module against voltage peaks up to 4KV. P.F. > 0.95.
- **Ambient Temperature Zone** : -30 °C to +50°C
- **Input Voltage Range** : 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

## Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	Light Beam	THD	PF	Surge Protection	CCT	CRI	Dimension (ØWxH)mm
STELLA-I	OLIM-0100-757-60-00	100	0.438	12000	60°	<10%	0.95	4 KV	5700K	70	Ø282x115
STELLA-II	OLIH-0150-757-60-00	150	0.657	18000	60°	<10%	0.95	4 KV	5700K	70	Ø342x119
STELLA-III	OLIH-0200-757-30-00	200	0.877	24000	30°	<10%	0.95	4 KV	5700K	70	Ø403x128

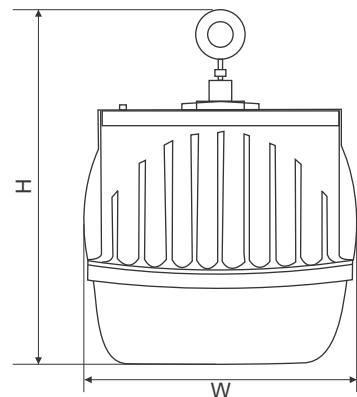


# OMEGA

IP66 IK08



Energy Label A++



## LED INDUSTRIAL WELLGLASS LIGHT

### SPECIFICATION

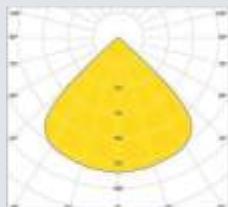
- High pressure die cast Aluminium alloy housing
- Robust, Sleek design with excellent heat dissipation
- Silicon moulded gaskets for IP66 rating
- All Stainless steel - AISI 304 grade hardware
- **LED** : Power LEDs with high efficacy (>150 lm/W), 3000/4000/5700K, with Luminous Flux maintenance of 70% (L70 B20) at 50,000 Hrs.
- **Optics** : 140° Wide
- **Diffuser** : Polycarbonate Clear / Opal
- **Coating**: Polyester powder coating
- **Driver** : Integral driver with safety diode to protect the LED module against voltage peaks up to 4KV. P.F. > 0.95.
- **Ambient Temperature Zone** : -30 °C to +50°C
- **Input Voltage Range** : 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

### Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	Light Beam	THD	PF	Surge Protection	CCT	CRI	Dimension (ØWxH)mm
OMEGA OLWG-0025-757-140-00		25	0.109	2750	140°	<10%	0.95	4 KV	5700K	70	Ø175x250
OMEGA OLWG-0040-757-140-00		40	0.175	4800	140°	<10%	0.95	4 KV	5700K	70	Ø175x250



## HYDROLED

IP66 IK08



Energy Label A++



## LED INDUSTRIAL TASK &amp; LOWBAY LIGHT

## SPECIFICATION

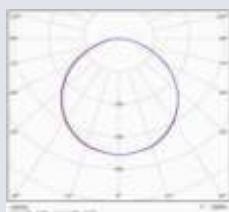
- Housing :** Polycarbonate V2 self extinguishing UV resistant
- LEDs :** Midpower LEDs with high efficacy (>160lm/W), having Luminous Flux maintenance of 70% (L70 B20) at 50,000 Hrs.
- Mounting :** With Stainless steel clips
- Diffuser :** Opal polycarbonate V2 self extinguishing UV resistant High transmittance
- Driver :** Integral driver with safety diode to protect the LED module against voltage peaks up to 4KV. P.F. > 0.95.
- Ambient Temperature Zone :** -30 °C to +50°C
- Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

## Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	Light Beam	THD	PF	Surge Protection	CCT	CRI	Dimension (LxWxH)mm
HYDROLED	OLIG-0025-757-DIF-00	25	0.109	2250	DIFF	<10%	0.95	4 KV	5700K	70	590x86x66
HYDROLED	OLIG-0040-757-DIF-00	40	0.175	3600	DIFF	<10%	0.95	4 KV	5700K	70	1180x86x66

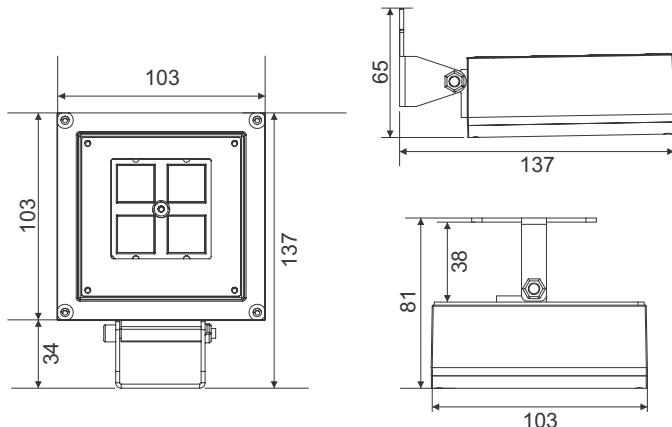


# Aeroflood-QUBIK-Surface

IP66 IK08



Energy Label A++



## LED INDUSTRIAL TASK & LOWBAY LIGHT

### SPECIFICATION

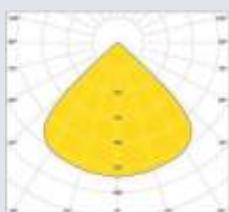
- High Pressure die cast Aluminium alloy housing
- Robust, Sleek design with excellent heat dissipation
- Silicon moulded gaskets for IP66 rating
- All Stainless steel - AISI 304 grade hardware
- **LED** : Power LEDs with high efficacy (>140 lm/W), Outdoor Illumination grade SMD LEDs, LM80 Certified., 3000/4000/5700K, with Luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.
- **Optics** : Symmetric : 60° / 90°, Asymmetric : 20°x 90° Oval / FN - Forward Asymmetric 45°
- **Diffuser** : 3mm thick extra clear toughened glass
- **Coating**: Polyester powder coating
- **Driver** : Integral driver with safety diode to protect the LED module against voltage peaks up to 4KV. P.F. > 0.95.
- **Ambient Temperature Zone** : -30 °C to +50°C
- **Input Voltage Range** : 140V – 277V AC, 50-60 Hz



Application image for reference purpose only

### Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	Light Beam	THD	PF	Surge Protection	CCT	CRI
QUBIK-S	OLFL-0018-757-FN-00	18	0.083	1800	Asymm FN	<10%	0.95	4 KV	4000K	70
QUBIK-S	OLFL-0025-957-TF-00	25	0.011	2500	TUN TF	<10%	0.95	4 KV	4000K	70
QUBIK-S	OLFL-0036-757-20x90	36	0.158	3600	20°x90°	<10%	0.95	4 KV	4000K	70









# INDOOR COMMERCIAL LIGHTING



Uniform, efficient and  
low glare lighting for  
offices, and commercial spaces

## Indoor Commercial Lighting



COMFORT



SNOW SQUARE  
Recess



SNOW SQUARE  
Surface



SNOW ROUND  
Recess



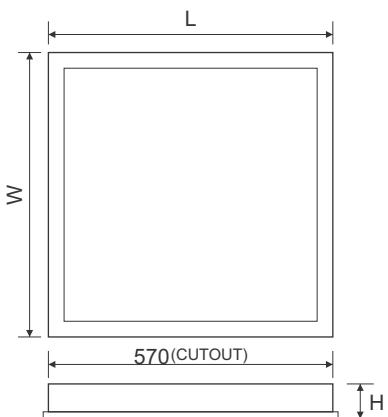
SNOW ROUND  
Surface



COMET - T5  
LED Batten

# COMFORT

IP66 IK08



Energy Label A++

## LED GRID CEILING RECESS MOUNTING TROFFER LIGHT

### SPECIFICATION

**Housing :** CRCA steel powder coated White

**Diffuser :** Opal PS/PMMA sheet with high transmittance

**LEDs :** Mid power LEDs with high efficacy (>160lm/W), having Luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.

**Sizes :** 2ft x 2ft / 1ft x 1ft / 1ft x 4ft

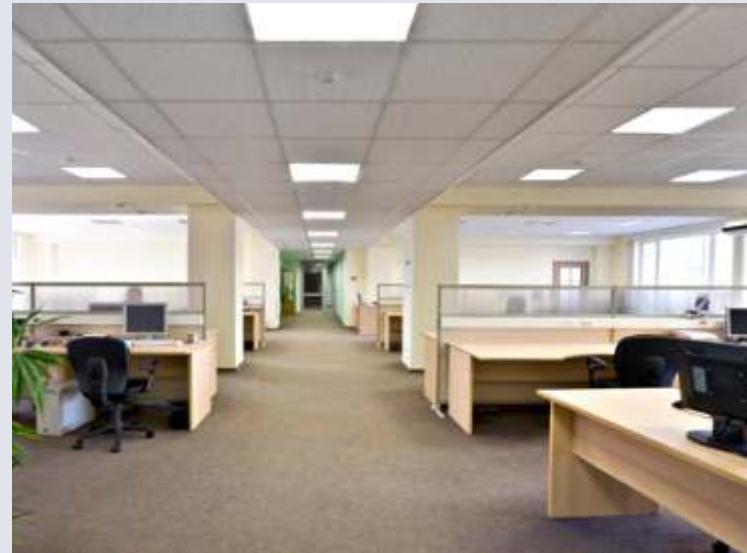
**System Efficacy :** > 100 Lm/W. high efficacy 120Lm/w also available on request

**CCT/CRI :** 3000K / 4000K / 6500K, 80 CRI.

**Power Supply :** Non Dimmable, P.F. >0.95, THD <10% / 1-10V Dimmable / DALI Dimmable drivers

**Ambient Temperature Zone :** -30°C to +45°C

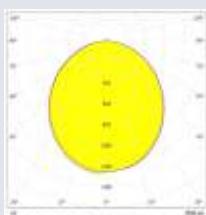
**Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

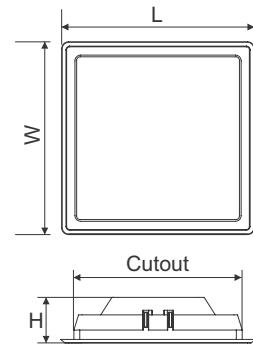
### Technical Specifications

SERIES	ITEM CODE	SYSTEM WATTAGE	INPUT CURRENT	DELIVERED LUMENS	THD	PF	SURGE PROTECTION	CCT	CRI	DIMENSION (LxWxH)mm
COMFORT	OLCR0020-865-00	20	0.087	2000	<10%	0.95	2 KV	6500K	80	295 x 295 x 70
COMFORT	OLCR0040-865-00	40	0.175	4000	<10%	0.95	2 KV	6500K	80	595 x 595 x 70
COMFORT	OLCR0040-865-00Z	40	0.175	4000	<10%	0.95	2 KV	6500K	80	1195 x 295 x 70



# SNOW SQUARE-Recess

IP66 IK08



INDOOR  
COMMERCIAL LIGHTING

Energy Label **A++**

Dimensions	3W	6W	9W	12W	15W	18W
Outer (LxWxH)	83x83x36	117x117x36	117x117x36	167x167x36	167x167x36	220x220x36
Cut out	63x63	97x97	97x97	147x147	147x147	200x200

## LED FALSE CEILING RECESS MOUNTING DOWNLIGHTER

### SPECIFICATION

**Housing :** Engineering plastic white

**Diffuser :** Opal poly styrene / PMMA sheet with high transmittance

**LEDs :** Mid power LEDs with high efficacy (>160lm/W), having luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.

**Sizes :** Available in 4 different sizes

**System Efficacy :** > 100 Lm/W. high efficacy 120Lm/W also available on request

**CCT/CRI :** 3000K / 4000K / 6500K, 80 CRI.

**Power Supply :** Non Dimmable, P.F. >0.95, THD <10% / 1-10V Dimmable / DALI Dimmable Drivers

**Ambient Temperature Zone :** -30°C to +45°C

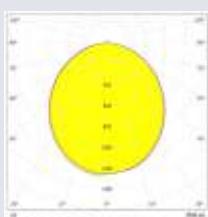
**Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

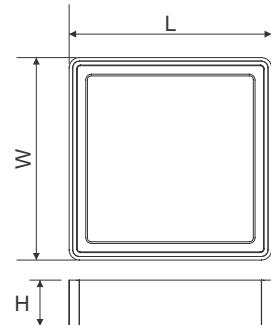
### Technical Specifications

SERIES	ITEM CODE	SYSTEM WATTAGE	INPUT CURRENT	DELIVERED LUMENS	THD	PF	SURGE PROTECTION	CCT	CRI	DIMENSION (LxWxH)mm
SNOW SQ-R OLDR0003-865- SQ	OLDR0003-865- SQ	3	0.022	300	<10%	0.95	2 KV	6500K	80	83x83x36
SNOW SQ-R OLDR0006-865- SQ	OLDR0006-865- SQ	6	0.028	600	<10%	0.95	2 KV	6500K	80	117x117x36
SNOW SQ-R OLDR0009-865- SQ	OLDR0009-865- SQ	9	0.042	900	<10%	0.95	2 KV	6500K	80	117x117x36
SNOW SQ-R OLDR0012-865- SQ	OLDR0012-865- SQ	12	0.055	1200	<10%	0.95	2 KV	6500K	80	167x167x36
SNOW SQ-R OLDR0015-865- SQ	OLDR0015-865- SQ	15	0.069	1500	<10%	0.95	2 KV	6500K	80	167x167x36
SNOW SQ-R OLDR0018-865- SQ	OLDR0018-865- SQ	18	0.083	1800	<10%	0.95	2 KV	6500K	80	220x220x36



## SNOW SQUARE-Surface

IP66 IK08



Energy Label A++

Dimensions	3W	6W	9W	12W	15W	18W
Outer (LxWxH)	87x87x36	120x120x36	120x120x36	172x172x36	172x172x36	225x225x36

## LED CEILING SURFACE MOUNTING DOWNLIGHTER

### SPECIFICATION

**Housing :** Engineering plastic white

**Diffuser :** Opal poly styrene / PMMA Sheet with high transmittance

**LEDs :** Mid power LEDs with high efficacy (>160lm/W), having luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.

**Sizes :** Available in 4 different sizes

**System Efficacy :** > 100 Lm/W. High Efficacy 120Lm/W also available on request

**CCT/CRI :** 3000K / 4000K / 6500K, 80 CRI.

**Power Supply :** Non Dimmable, P.F. >0.95, THD <10% / 1-10V Dimmable / DALI Dimmable Drivers

**Ambient Temperature Zone :** -30°C to +45°C

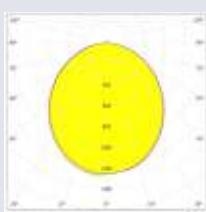
**Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

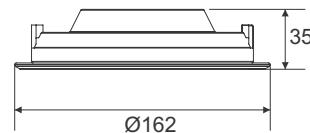
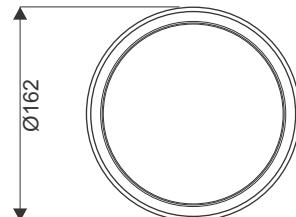
### Technical Specifications

SERIES	ITEM CODE	SYSTEM WATTAGE	INPUT CURRENT	DELIVERED LUMENS	THD	PF	SURGE PROTECTION	CCT	CRI	DIMENSION (LxWxH)mm
SNOW SQ-S	OLDS0003-765-SQ	3	0.022	300	<10%	0.95	2 KV	6500K	80	87x87x36
SNOW SQ-S	OLDS0006-765-SQ	6	0.028	600	<10%	0.95	2 KV	6500K	80	120x120x36
SNOW SQ-S	OLDS0009-765-SQ	9	0.042	900	<10%	0.95	2 KV	6500K	80	120x120x36
SNOW SQ-S	OLDS0012-765-SQ	12	0.055	1200	<10%	0.95	2 KV	6500K	80	172x172x36
SNOW SQ-S	OLDS0015-765-SQ	15	0.069	1500	<10%	0.95	2 KV	6500K	80	172x172x36
SNOW SQ-S	OLDS0018-765-SQ	18	0.083	1800	<10%	0.95	2 KV	6500K	80	225x225x36



# SNOW ROUND-Recess

IP66 IK08



INDOOR  
COMMERCIAL LIGHTING

Energy Label **A++**

Dimensions	3W	6W	9W	12W	15W	18W
Outer (ØxH)	Ø83x35	Ø113x35	Ø113x35	Ø162x35	Ø162x35	Ø217x35
Cut out	Ø64	Ø96	Ø96	Ø145	Ø145	Ø198

## LED FALSE CEILING RECESS MOUNTING DOWNLIGHTER

### SPECIFICATION

**Housing :** Engineering plastic white

**Diffuser :** Opal poly styrene / PMMA sheet with high transmittance

**LEDs :** Mid power LEDs with high efficacy (>160lm/W), having luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.

**Sizes :** Available in 4 different sizes

**System Efficacy :** > 100 Lm/W. High Efficacy 120Lm/W also available on request

**CCT/CRI :** 3000K / 4000K / 6500K, 80 CRI.

**Power Supply :** Non Dimmable, P.F. >0.95, THD <10% / 1-10V Dimmable / DALI Dimmable Drivers

**Ambient Temperature Zone :** -30°C to +45°C

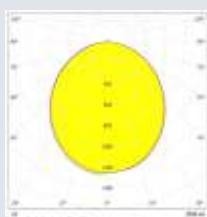
**Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

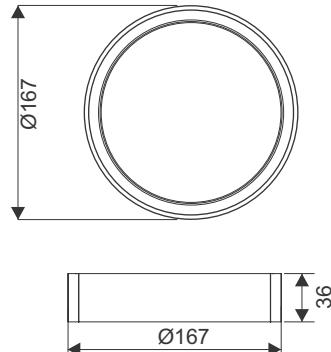
### Technical Specifications

SERIES	ITEM CODE	SYSTEM WATTAGE	INPUT CURRENT	DELIVERED LUMENS	THD	PF	SURGE PROTECTION	CCT	CRI	DIMENSION (LxWxH)mm
SNOW RD-R OLDR0003-765-RD		3	0.022	300	<10%	0.95	2 KV	6500K	80	Ø83x35
SNOW RD-R OLDR0006-765-RD		6	0.028	600	<10%	0.95	2 KV	6500K	80	Ø113x35
SNOW RD-R OLDR0009-765-RD		9	0.042	900	<10%	0.95	2 KV	6500K	80	Ø113x35
SNOW RD-R OLDR0012-765-RD		12	0.055	1200	<10%	0.95	2 KV	6500K	80	Ø162x35
SNOW RD-R OLDR0015-765-RD		15	0.069	1500	<10%	0.95	2 KV	6500K	80	Ø162x35
SNOW RD-R OLDR0018-765-RD		18	0.083	1800	<10%	0.95	2 KV	6500K	80	Ø217x35



# SNOW ROUND-Surface

IP66 IK08



Energy Label A++

Dimensions	3W	6W	9W	12W	15W	18W
Outer (ØxH)	Ø88x36	Ø118x36	Ø118x36	Ø167x36	Ø167x36	Ø222x36

## LED CEILING SURFACE MOUNTING DOWNLIGHTER

### SPECIFICATION

**Housing :** Engineering plastic white

**Diffuser :** Opal poly styrene / PMMA sheet with high transmittance

**LEDs :** Mid power LEDs with high efficacy (>160lm/W), having luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.

**Sizes :** Available in 4 different sizes

**System Efficacy :** > 100 Lm/W. high efficacy 120Lm/W also available on request

**CCT/CRI :** 3000K / 4000K / 6500K, 80 CRI.

**Power Supply :** Non Dimmable, P.F. >0.95, THD <10% / 1-10V Dimmable / DALI Dimmable Drivers

**Ambient Temperature Zone :** -30°C to +45°C

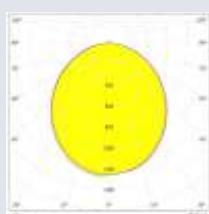
**Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

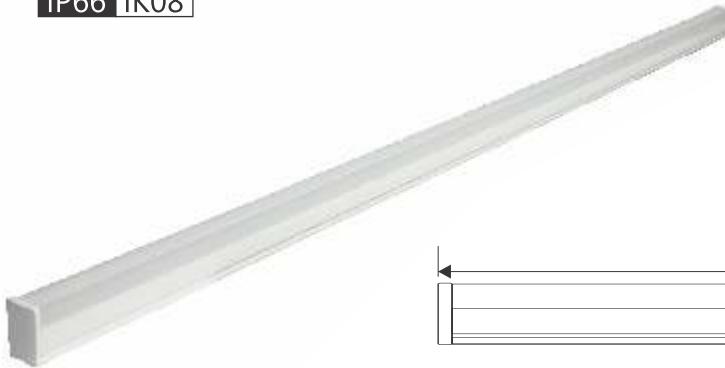
### Technical Specifications

Series	Item Code	System Wattage	Input Current	Delivered Lumens	THD	PF	Surge Protection	CCT	CRI	Dimension (LxWxH)mm
SNOW RD-S	OLDS0003-765-RD	3	0.022	300	<10%	0.95	2 KV	6500K	80	Ø88x36
SNOW RD-S	OLDS0006-765-RD	6	0.028	600	<10%	0.95	2 KV	6500K	80	Ø118x36
SNOW RD-S	OLDS0009-765-RD	9	0.042	900	<10%	0.95	2 KV	6500K	80	Ø118x36
SNOW RD-S	OLDS0012-765-RD	12	0.055	1200	<10%	0.95	2 KV	6500K	80	Ø167x36
SNOW RD-S	OLDS0015-765-RD	15	0.069	1500	<10%	0.95	2 KV	6500K	80	Ø167x36
SNOW RD-S	OLDS0018-765-RD	18	0.083	1800	<10%	0.95	2 KV	6500K	80	Ø222x36

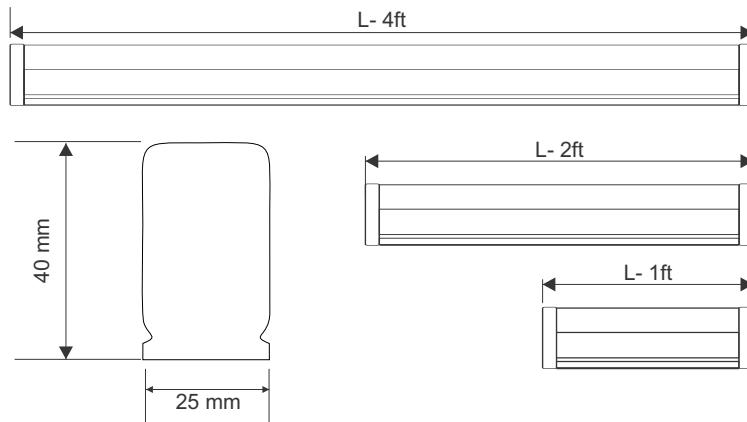


# COMET-T5 LED Batten

IP66 IK08



INDOOR  
COMMERCIAL LIGHTING



Energy Label A++

## LED WALL/ CEILING MOUNTING SLIM BATTEN LIGHT

### SPECIFICATION

**Housing :** Engineering plastic white

**Diffuser :** Opal poly styrene / PMMA sheet with high transmittance

**LEDs :** Mid power LEDs with high efficacy (>160lm/W), having luminous flux maintenance of 70% (L70 B20) at 50,000 Hrs.

**Sizes :** Available in 3 different sizes

**System Efficacy :** > 100 Lm/W. high efficacy 120Lm/W also available on request

**CCT/CRI :** 3000K / 4000K / 6500K, 80 CRI.

**Power Supply :** Non Dimmable, P.F. >0.95, THD <10% / 1-10V Dimmable / DALI Dimmable Drivers

**Ambient Temperature Zone :** -30°C to +45°C

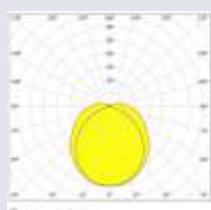
**Input Voltage Range :** 100V – 280V AC, 50-60 Hz



Application image for reference purpose only

### Technical Specifications

SERIES	ITEM CODE	SYSTEM WATTAGE	INPUT CURRENT	DELIVERED LUMENS	THD	PF	SURGE PROTECTION	CCT	CRI	DIMENSION (LxWxH)mm
COMET BATTEN	OLCS0005-865-00	5	0.035	500	<10%	0.95	2 KV	6500K	80	295 x 25 x 40
COMET BATTEN	OLCS0009-865-00	9	0.042	900	<10%	0.95	2 KV	6500K	80	590 x 25 x 40
COMET BATTEN	OLCS0020-865-00	20	0.092	2000	<10%	0.95	2 KV	6500K	80	1180 x 25 x 40



# RECOMMENDED ILLUMINATION

As per IS 3646 (Part 1) : 1992

## 1 ELECTRICITY GENERATION, TRANSMISSION AND DISTRIBUTION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
<b>1.1 General Plant</b>			
1.1.1 Turbine Houses (operating floor)	200	2.3.1	Ingot stripping, soaking pits, annealing and heat treatment bays, acid recovery plant pickling and cleaning bays, roughing mills, cold mills, finishing mills, tinning and galvanizing lines, cut up and rewind lines
1.1.2 Boiler and turbine house basements	100	2.3.2	General
1.1.3 Boiler houses, platforms, areas around burners	100	2.3.3	Control Platforms
1.1.4 Switch rooms, meter rooms, oil plant rooms, HV substations (indoor)	150	2.3.4	Wire mills, product finishing, steel inspection and treatment
1.1.5 Control rooms	300	2.3.5	Plate/strip inspection
1.1.6 Relay and telecommunication rooms	300	<b>2.4 Foundries</b>	
1.1.7 Diesel generator rooms, compressor rooms	150	2.4.1	Automatic plant
1.1.8 Pump houses, water treatment plant houses	150	2.4.1.1	Without manual operation
1.1.9 Battery rooms, chargers, rectifiers	100	2.4.1.2	With occasional manual operation
1.1.10 Precipitator chambers, platforms, etc	100	2.4.1.3	With continuous manual operation
1.1.11 Cable tunnels and basements, circulating water culverts and screen chambers, storage tanks (indoor), operating areas and filling points at outdoor tanks	50	2.4.1.4	Control room
<b>1.2 Coal Plant</b>		2.4.1.5	Control platforms
1.2.1 Conveyors, gantries, junction towers, unloading hoppers, ash handling plants, settling pits, dust hoppers outlets	100	2.4.2	Non-automatic plants
1.2.2 Other areas where operators may be in attendance	150	2.4.2.1	Charging floor, pouring, shaking out, cleaning, grinding fettling
<b>1.3.1 Nuclear Plants</b>		2.4.2.2	Rough moulding, rough core making
Gas circulation bays, reactor area, boiler platform, reactor charges and discharge face	150	2.4.2.3	Fine moulding, fine core making
<b>2 METAL MANUFACTURE</b>		2.4.2.4	Inspection
<b>2.1 Iron Making</b>		<b>2.5 Forges (Severe vibration is likely to occur)</b>	
<b>2.1.1 Sinter plant :</b>		2.5.1	General
Plant floor	200	2.5.2	Inspection
Mixer drum, fan house, screen houses, coolers, transfer stations	150	<b>3 CERAMICS</b>	
<b>2.1.2 Furnaces, cupola:</b>		<b>3.1 Concrete products</b>	
General	150	Mixing, casting, cleaning	200
Control platforms	300	<b>3.2 Potteries</b>	
Conveyor galleries, walkways	50	3.2.1	Grinding, moulding, pressing, cleaning, trimming, glazing, firing
2.2.1 Electric melting shops	200	3.2.2	Enameling, colouring
2.2.2 Basic oxygen steel making plants		<b>3.3 Glass Works</b>	
2.2.2.1 General	150	3.3.1	Furnaces rooms, bending, annealing
2.2.2.2 Convertor floor, teeming bay	200	3.3.2	Mixing rooms, forming, cutting, grinding, Polishing, toughening
2.2.2.3 Control platforms	300	3.3.3	Bevelling, decorative cutting, etching, Silvering
2.2.2.4 Scrap bays	150	3.3.4	Inspection
		4.1.1	Exterior walkways, platforms, stairs and Ladders
		4.1.2	Exterior pump and valve areas
		4.1.3	Pump and compressor houses
		4.1.4	Process plant with remote control
		4.1.5	Process plant requiring occasional manual intervention
			100

# RECOMMENDED ILLUMINATION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
4.1.6 Permanently occupied work stations in process plant	200	5.6.3 Fine work, for example, office machinery assembly	750
4.1.7 Control rooms for process plant	300	5.6.4 Very fine work, for example, instrument assembly	1000
<b>4.2 Pharmaceutical Manufacturer and Fine Chemicals Manufacturer</b>		5.6.5 Minute work, for example, watch making	1500
4.2.1 Pharmaceutical manufacturer Grinding, granulating, Mixing drying, tableting, sterilizing, washing, preparation of solutions, filling, capping, wrapping, hardening	500	<b>5.7 Inspection and Testing Shops</b>	
4.2.2 Fine chemical manufacture		5.7.1 Coarse work, for example, using go/no go gauges, inspection of large sub-assemblies	500
4.2.2.1 Exterior walkways, platforms, stairs and ladders	50	5.7.2 Medium work, for example, inspection of painted surfaces	750
4.2.2.2 Process plant	100	5.7.3 Fine work, for example, using calibrated scales, inspection of precision mechanisms	1000
4.2.2.3 Fine chemical finishing	500	5.7.4 Very fine work, for example, inspection of small intricate parts	1500
4.2.2.4 Inspection	500	5.7.5 Minute work, for example, inspection of very small instruments	2000
<b>4.3 Soap Manufacture</b>		<b>5.8 Paint Shops and Spray Booths</b>	
4.3.1 General area	300	5.8.1 Dipping, rough spraying	300
4.3.2 Automatic processes	200	5.8.2 Preparation, ordinary painting, spraying and finishing	500
4.3.3 Control panels	300	5.8.3 Fine painting, spraying and finishing	750
4.3.4 Machines	300	5.8.4 Inspection, retouching and matching	1000
<b>4.4 Paint Works</b>		<b>5.9 Plating Shops</b>	
4.4.1 General	300	5.9.1 Vats and baths	300
4.4.2 Automatic processes	200	5.9.2 Buffing, polishing burnishing	500
4.4.3 Control panels	300	5.9.3 Final buffering and polishing	750
4.4.4 Special batch mixing	750		
4.4.5 Colour matching	1000	<b>6 ELECTRICAL AND ELECTRONIC ENGINEERING</b>	
<b>5 MECHANICAL ENGINEERING</b>		6.1 Electrical Equipment Manufacture	
<b>5.1 Structural Steel Fabrication</b>		6.1.1 Manufacture of cables and insulated wires, winding, varnishing and immersion of coils, assembly of large machines, simple assembly work	300
5.1.1 General	300	6.1.2 Medium assembly, for example, telephones, small motors	500
5.1.2 Marking off	500	6.1.3 Assembly of precision components, for example, Circuit Boards requiring Manual Insertion of components, inspection and calibration	1000
<b>5.2 Sheet Metal Works</b>		6.1.4 Assembly of high precision parts	1500
5.2.1 Pressing, punching shearing, stamping, spinning, folding	500	<b>6.2 Electronic Equipment Manufacture</b>	
5.2.2 Bench work, scribing, inspection	750	6.2.1 Printed circuit board	
<b>5.3 Machine and Tool Shops</b>		6.2.1.1 Silk screening	500
5.3.1 Rough bench and machine work	300	6.2.1.2 Hand insertion of components, soldering	750
5.3.2 Medium bench and machine work	500	6.2.1.3 Inspection	1000
5.3.3 Fine bench and machine work	750	6.2.1.4 Assembly of wiring harness, cleat-ing harness, testing and calibration	750
5.3.4 Gauge rooms	1000	6.2.1.5 Chassis assembly	1000
<b>5.4 Die Sinking Shops</b>		6.2.2 Inspection and testing:	
5.4.1 General	500	6.2.2.1 Soak test	200
5.4.2 Fine work	1500	6.2.2.2 Safety and functional tests	300
<b>5.5 Welding and Soldering Shops</b>			
5.5.1 Gas and arc welding, rough spot welding	300		
5.5.2 Medium soldering, brazing, spot welding	500		
5.5.3 Fine soldering, fine spot welding	1000		
<b>5.6 Assembly Shops</b>			
5.6.1 Rough work for example, frame and heavy machine assembly	300		
5.6.2 Medium work, for example, engine assembly, vehicle body assembly	500		

# RECOMMENDED ILLUMINATION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
<b>7 FOOD , DRINK AND TOBACCO</b>		<b>8.5 Carpet Manufacture</b>	
<b>Canning, Preserving and Freezing</b>		8.5.1 Winding, beaming	300
7.1.1 Grading and sorting of raw materials	750	8.5.2 Setting pattern, tufting cropping, trimming, fringing, latexing and latex drying	500
7.1.2 Preparation	500	8.5.3 Designing, weaving, mending	750
7.1.3 Canned and bottled goods		8.5.4 Inspection	
7.1.3.1 Retorts	300	8.5.4.1 General	1000
7.1.3.2 Automatic processes	200	8.5.4.2 Piece dyeing	750
7.1.3.3 Labeling and packaging	300	<b>9 LEATHER INDUSTRY</b>	
7.1.4 Frozen foods		<b>9.1 Leather Manufacture</b>	
7.1.4.1 Process area	300	9.1.1 Cleaning, tanning and stretching, vats, cutting, fleshing, stuffing	300
7.1.4.2 Packaging and storage	300	9.1.2 Finishing, scarfing	500
<b>7.2 Bottling, Brewing and Distilling</b>		<b>9.2 Leather Working</b>	
7.2.1 Key washing and handling, bottle washing	200	9.2.1 General	300
7.2.2 Key inspection	300	9.2.2 Pressing, glazing	500
7.2.3 Process areas	300	9.2.3 Cutting, splitting, scarfing, sewing	750
7.2.4 Bottle filling	750	<b>10 CLOTHING AND FOOTWEAR</b>	
<b>7.3 Edible Oils and Fats Processing</b>		<b>10.1 Clothing Manufacture</b>	
7.3.1 Refining and blending	300	10.1.1 Preparation of cloth	300
7.3.2 Production	500	10.1.2 Cutting	750
<b>7.4 Bakeries Chocolates and Confectionery</b>		10.1.3 Matching	750
7.4.1 General	300	10.1.4 Sewing	1000
7.4.2 Automatic processes	200	10.1.5 Pressing	500
7.4.2 Hand decorating, icing, inspection, wrapping and packing	500	10.1.6 Inspection	1500
<b>7.5 Tobacco Processing</b>		10.1.7 Hand tailoring	1500
7.5.1 Material preparation, making and packing	500	<b>10.2 Hosiery and Knitwear manufacture</b>	
7.5.2 Hand Processes	750	10.2.1 Flat bed knitting machines	500
<b>8 TEXTILES</b>		10.2.2 Circular knitting machines	750
<b>8.1 Fibre Preparation</b>		10.2.3 Lockstitch and over locking machine	1000
8.1.1 Bale breaking, washing		10.2.4 Linking or running on	1000
300		10.2.5 Mending, Hand finishing	1500
8.1.2 Stock dyeing, tinting	300	10.2.6 Inspection	1500
<b>8.2 Yarn Manufacture</b>		<b>10.3 Glove Manufacture</b>	
8.2.1 Spinning, roving, winding, etc	500	10.3.1 Sorting and grading	750
8.2.2 Heading (drawing in)	1000	10.3.2 Pressing, Knitting, cutting	500
<b>8.3 Fabric Production</b>		10.3.3 Sewing	750
8.3.1 Knitting	500	10.3.4 Inspection	1500
8.3.2 Weaving		<b>10.5 Boot and Shoe Manufacture</b>	
8.3.2.1 Jute and hemp	300	10.4.1 Stiffening, braiding, refining, forming, sizing, pounding, ironing	300
8.3.2.2 Heavy woolens	500	10.4.2 Cleaning, flanging, finishing	500
8.3.2.3 Medium worsteds, fine woolens, cottons	750	10.4.3 Sewing	750
8.3.2.4 Fine worsteds, fine linens, Synthetics	1000	10.4.4 Inspection	1500
8.3.2.5 Mending	1500	<b>10.5 Boot and Shoe Manufacture</b>	
8.3.2.6 Inspection	1500	10.5.1 Sorting and grading	1000
<b>8.4 Fabric Finishing</b>		10.5.2 Clicking, closing	1000
8.4.1 Dyeing	300	10.5.3 Preparatory operations	1000
8.4.2 Calendering, chemical treatment, etc	500	10.5.4 Cutting tables and pressure	1500
8.4.3 Inspection		10.5.5 Bottom stock preparation, lasting	
8.4.3.1 'Grey' cloth	1000	Bottoming finishing, shoe room	1000
8.4.3.2 Final	1500		

# RECOMMENDED ILLUMINATION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
10.5.6 Rubber		12.2.2 Composing rooms	
10.5.6.1 Washing, compounding, coating, drying, varnishing, vulcanizing, calendering, cutting	300	12.2.2.1 Hand composing, imposition and distribution	750
10.5.6.2 Lining, making and finishing	500	12.2.2.2 Hot metal keyboard	750
<b>11 TIMBER AND FURNITURE</b>		12.2.2.3 Hot metal casting	300
<b>11.1 Sawmills</b>		12.2.2.4 Photo composing keyboard or setters	500
11.1.1 General	200	12.2.2.5 Paste up	750
11.1.2 Head saw	500	12.2.2.6 Illuminated tables - general lighting	300
11.1.3 Grading	750	12.2.2.7 Proof presses	500
<b>11.2 Woodwork Shops</b>		12.2.2.8 Proof reading	750
11.2.1 Rough sawing, bench work	300	12.2.3 Graphic Reproduction	
11.2.2 Sizing, planning, sanding, medium machining and bench work	500	12.2.3.1 General	500
11.2.3 Fine bench and machine work, fine sanding, finishing	750	12.2.3.2 Precision proofing, retouching, etching	1000
<b>11.3 Furniture Manufacture</b>		12.2.3.3 Colour reproduction and inspection	1000
11.3.1 Raw material stores	100	12.2.4 Printing machine room	
11.3.2 Finished goods stores	150	12.2.4.1 Presses	500
11.3.3 Wood matching and assembly, rough sawing, cutting	300	12.2.4.2 Premake ready	500
11.3.4 Machining, sanding and assembly, polishing	500	12.2.4.3 Printed sheet inspection	1000
11.3.5 Tool rooms	500	12.2.5 Binding	
11.3.6 Spray booths		12.2.5.1 Folding, pasting, punching and stitching	500
11.3.6.1 Colour finishing	500	12.2.5.2 Cutting, assembling, embossing	750
11.3.6.2 Clear finishing	300	<b>13 PLASTIC AND RUBBER</b>	
11.3.7 Cabinet making		<b>13.1 Plastic Products</b>	
11.3.7.1 Veneer sorting and grading	1000	13.1.1 Automatic Products	
11.3.7.2 Marquetry, pressing, patching and fitting	500	13.1.1.1 Without manual control	50
11.3.7.3 Final inspection	750	13.1.1.2 With occasional manual control	100
<b>11.4 Upholstery Manufacture</b>		13.1.1.3 With continuous manual control	300
11.4.1 Cloth inspection	1500	13.1.1.4 Control rooms	300
11.4.2 Filling, covering	500	13.1.1.5 Control platforms	300
11.4.3 Slipping, cutting, sewing	750	13.1.2 Non-automatic plant	
11.4.4 Assembly	500	13.1.2.1 Mixing, calendaring, extrusion, injection, compression and blow molding, sheet fabrication	300
11.4.5 Tape edging	1000	13.1.2.2 Trimming, cutting, polishing, cementing	500
<b>12 PAPER AND PRINTING</b>		13.1.2.3 Printing, inspection	1000
<b>12.1 Paper Mills</b>		<b>13.2 Rubber Products</b>	
12.1.1 Pulp mills, preparation plants	300	13.2.1 Stock preparation - plasticizing, milling	200
12.1.2 Paper and board making		13.2.2 Calendaring, fabric preparation, stock cutting	500
12.1.2.1 General	300	13.2.3 Extruding, moulding	500
12.1.2.2 Automatic process	200	13.2.4 Inspection	1000
12.1.2.3 Inspection, sorting	500	<b>14 DISTRIBUTION AND STORAGE</b>	
12.1.3 Paper converting processes		<b>14.1 Work Stores</b>	
12.1.3.1 General	300	14.1.1 Unpacking, sorting	200
12.1.3.2 Associated printing	500	14.1.2 Large item storage	100
<b>12.2 Printing Works</b>		14.1.3 Small item rack storage	300
12.2.1 Type foundries		14.1.4 Issue counter, records, store man's desk	500
12.2.1.1 Matrix making, dressing type, hand and machine coating	300		
12.2.1.2 Front assembly, sorting	750		

# RECOMMENDED ILLUMINATION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
<b>14.2 Warehouses and Bulk Stores</b>		<b>16.4 Sewage Treatment Works</b>	
14.2.1 Storage of goods where identification requires only limited preparation of detail	100	16.4.1 Walkways	50
14.2.2 Storage of goods where identification requires perception of detail	150	16.4.2 Process areas	100
14.2.3 Automatic high bay rack stores		<b>17.1 Small Shops with Counters</b>	<b>500</b>
14.2.3.1 Gangway	20	<b>17.2 Small Self-Service Shops with Island Displays</b>	<b>500</b>
14.2.3.2 Control station	200	<b>17.3 Super Markets, Hyper-markets</b>	
14.2.3.3 Packing and dispatch	300	17.3.1 General	500
14.2.3.4 Loading bays	150	17.3.2 Checkout	500
<b>14.3 Cold Stores</b>		17.3.3 Showroom for large objects, for example, cars, furniture	500
14.3.1 General	300	17.3.4 Shopping precincts and arcades	150
14.3.2 Breakdown, make-up and dispatch	300	<b>17.4 Fuel Pump Retail Stations</b>	
14.3.3 Loading bays	150	17.4.1 Approach & Exit	50
<b>15 COMMERCE</b>		17.4.2 Under Canopy dispensing Area	300
<b>15.1 Offices</b>		17.4.3 Dispensing Machine Readings Display vertical	200
15.1.1 General offices	300	<b>18 PLACES OF PUBLIC ASSEMBLY</b>	
15.1.2 Deep plan general offices	500	<b>18.1 Public rooms, Village Halls, Worship Halls</b>	
15.1.3 Computer work stations	300	<b>18.2 Concert Halls, Cinemas and Theaters</b>	
15.1.4 Conference rooms, executive offices	300	18.2.1 Foyer	200
15.1.5 Computer and data preparation rooms	300	18.2.2 Booking office	300
15.1.6 Filing rooms	200	18.2.3 Auditorium	100
<b>15.2 Drawing Offices</b>		18.2.4 Dressing rooms	300
15.2.1 General	300	18.2.5 Projection room	150
15.2.2 Drawing boards	500	<b>18.3 Churches</b>	
15.2.3 Print rooms	200	18.3.1 Body of church	150
<b>15.3 Banks and Building Societies</b>		18.3.2 Pulpit, lectern	300
15.3.1 Counter, office area	300	18.3.3 Choir stalls	300
15.3.2 Public area	200	18.3.4 Alter, communion table, chancel	150
<b>16 SERVICES</b>		18.3.5 Vestries	150
<b>16.1 Garages</b>		18.3.6 Organ	300
16.1.1 Interior parking area	30	<b>18.4 Hospitals</b>	
16.1.2 General repairs, servicing, washing, polishing	300	18.4.1 Anesthetic rooms	
16.1.3 Workbench	500	18.4.1.1 General	300
16.1.4 Spray booths	500	18.4.1.2 Local	1000
16.1.5 External apron		18.4.2 Consulting areas	
16.1.5.1 General	50	18.4.2.1 General	300
16.1.5.2 Pump area (retail sales)	300	18.4.2.2 Examination	1000
<b>16.2 Appliance servicing</b>		18.4.3 Corridors	
16.2.1 Workshop		18.4.3.1 General	150
16.2.1.1 General	300	18.4.4 Ward corridors	
16.2.1.2 Workbench	500	18.4.4.1 Day, screened from bays	200
16.2.1.3 Counter	300	18.4.4.2 Day, open to natural light	200
16.2.1.4 Stores	300	18.4.4.3 Morning / evening	150
<b>16.3 Laundries</b>		18.4.4.4 Night	10
16.3.1 Commercial laundries		18.4.5 Cubicles	
16.3.2 Receiving, sorting, washing, drying, ironing Dispatch, dry-cleaning, bulk machine work	300	18.4.5.1 General	300
16.3.3 Head ironing, pressing, mending, spotting, Inspection	500	18.4.5.2 Treatment	1000
16.3.4 Launderettes	300		

# RECOMMENDED ILLUMINATION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
18.4.6 Examination		<b>18.5 Hotels</b>	
18.4.6.1 General	300	18.5.1 Entrance halls	100
18.4.6.2 Local inspection	1000	18.5.2 Reception , cashier's and porters' desks	300
18.4.7 Intensive therapy		18.5.3 Bars, coffee base , dining rooms, grill rooms, restaurants , lounges	200
18.4.7.1 Bad head	50	18.5.4 Cloak rooms, baggage rooms	100
18.4.7.2 Circulation between bed ends	100	18.5.5 Bed rooms	50
18.4.7.3 Observation	300	18.5.6 Bathroom	100
18.4.7.4 Local observation	1000	<b>18.6 Libraries</b>	
18.4.7.5 Staff base (day)	300	18.6.1 Lending library	
18.4.7.6 Staff base (night)	30	18.6.1.1 General	300
18.4.8 Laboratories		18.6.1.2 Counters	500
18.4.8.1 General	300	18.6.1.3 Bookshelves	150
18.4.8.2 Examination	500	18.6.1.4 Reading rooms	300
18.4.9 Nurses' stations		18.6.1.5 Reading tables	300
18.4.9.1 Morning/day/evening	300	18.6.2 Catalogues	
18.4.9.2 Night desks	30	18.6.2.1 Card	150
18.4.9.3 Night, medical trolleys	100	18.6.2.2 Microfiche / Visual display units	150
18.4.10 Operating theaters		18.6.3 Reference libraries	
18.4.10.1 General	500	18.6.3.1 Genera	300
18.4.10.2 Local	50000	18.6.3.2 Counters	500
18.4.11 Pathology departments		18.6.3.3 Bookshelves	150
18.4.11.1 General	300	18.6.3.4 Study tables, carrels	500
18.4.11.2 Examination	500	18.6.3.5 Map room	300
18.4.11.3 Pharmacies	300	18.6.4 Display and exhibition areas	
18.4.11.4 Reception / enquiry	300	18.6.4.1 Exhibits insensitive to light	300
18.4.11.5 Recovery rooms	300	18.6.4.2 Exhibit sensitive to light, for example, pictures, prints rare books in archives	150
18.4.12 Ward-circulation		18.6.5 Library workrooms	
18.4.12.1 Day	100	18.6.5.1 Book repair and binding	500
18.4.12.2 Morning / evening	100	18.6.5.2 Catalogue and sorting	500
18.4.12.3 Night		18.6.5.3 Remote book stores	150
518.4.13 Ward-bed head		<b>18.7 Museums and Art Galleries</b>	
18.4.13.1 Morning / evening	50	18.7.1 Exhibits insensitive to light	300
18.4.13.2 Reading	150	18.7.2 Light sensitive exhibits , for example, oil and temper paints, un-dyed leather, bone ivory , wood , etc	150
18.4.14 Night		18.7.3 Extremely light sensitive exhibits, for example ,textiles , water colours, prints and drawings, skins, botanical specimens etc.	50
18.4.14.1 Adult	1	18.7.4 Conservation studies and workshops	500
18.4.14.2 Pediatric	1	<b>18.8 Sports Facilities</b>	
18.4.14.3 Psychiatric	5	18.8.1 Multi-purpose sports halls	500- 750
18.4.14.4 Watch	5	18.8.2 Specific Sports : As per respective governing guidelines.	
18.4.15 X-Ray areas		<b>19 EDUCATION</b>	
18.4.15.1 General	200	19.1 Assembly Halls	
18.4.15.2 Diagnostic	200	19.1.1 General	300
18.4.15.3 Operative	300		
18.4.15.4 Process dark room	50		
18.4.16 Surgeries			
18.4.16.1 General	300		
18.4.16.2 Waiting rooms	150		
18.4.17 Dental Surgeries			
18.4.17.1 Chair Special lighting			
18.4.17.2 Laboratories	500		
18.4.18 Consulting rooms			
18.4.18.1 General	300		
18.4.18.2 Desk	500		
18.4.18.3 Examination couch	500		
18.4.18.4 Ophthalmic wall and near-vision charts	500		

# RECOMMENDED ILLUMINATION

Type of Interior or Activity	Average Service Illuminance in lux	Type of Interior or Activity	Average Service Illuminance in lux
<b>19.2 Teaching Spaces</b>		<b>21.2 Circulation Areas</b>	
General	300	21.2.1 Lifts	100
<b>19.3 Lecture Theaters</b>		21.2.2 Corridors, passage ways,stairs	100
19.3.1 General	300	21.2.3 Escalators, travellators	150
19.3.2 Demonstration benches	500	<b>21.3 Medical and first Aid Centres</b>	
19.4 Seminar Rooms	500	21.3.1 Consulting rooms, treatment rooms	500
19.5 Art Rooms	500	21.3.2 Rest rooms	150
19.6 Needlework Rooms	500	21.3.3 Medical stores	150
19.7 Laboratories	500	<b>21.4 Staff Rooms</b>	
19.8 Libraries	300	21.4.1 Changing , locker and cleaners rooms, cloakrooms, lavatories	100
19.9 Music Rooms	300	21.4.2 Rest rooms	150
19.10 Sports Halls	300	<b>21.5 Staff Restaurants</b>	
19.11 Workshops	300	21.5.1 Canteens, cafeterias, dining rooms, mess rooms	200
<b>20 TRANSPORT</b>		21.5.2 Survery , vegetable preparation , washing-up area	300
<b>20.1 Airports</b>		21.5.3 Food preparation and cooking	500
20.1.1 Ticket counters, checking desks, and information desks	500	21.5.4 Food stores , cellars	150
20.1.2 Departure lounges, other waiting areas	200	<b>21.6 Communications</b>	
20.1.3 Baggage reclaim	200	21.6.1 Switchboard rooms	300
20.1.4 Baggage handling	100	21.6.2 Telephone apparatus rooms	150
20.1.5 Customs and immigration halls	500	21.6.3 Telex rooms , post rooms	500
20.1.6 Concourse	200	21.6.4 Reprographic room	300
<b>20.2 Railway Stations</b>		<b>21.7 Building Services</b>	
20.2.1 Ticket office	500	21.7.1 Boiler houses	
20.2.2 Information office	500	21.7.1.1 General	100
20.2.3 Luggage office		21.7.1.2 Boiler front	150
20.2.3.1 General	100	21.7.1.3 Boiler control room	300
20.2.3.2 Counter	200	21.7.1.4 Control rooms	300
20.2.4 Waiting rooms	200	21.7.1.5 Mechanical plant room	150
20.2.5 Concourse	200	21.7.1.6 Electrical power supply and distribution rooms	150
20.2.6 Time table	200	21.7.1.7 Store rooms	100
20.2.7 Ticket barriers	200	<b>21.8 Car Parks</b>	
20.2.8 Platforms (covered)	50	21.8.1 Covered car parks	
20.2.9 Platforms (open)	20	21.8.1.1 Floors	20
<b>20.3 Train Stations</b>		21.8.1.2 Ramps and corners	30
20.3.1 Ticket offices	500	21.8.1.3 Entrances and exits	100
20.3.2 Information offices	500	21.8.1.4 Control booths	200
20.3.3 Left luggage office		21.8.1.5 Outdoor car parks	20
20.3.3.1 General	100		
20.3.3.2 Counter	200		
20.3.4 Waiting rooms	200		
20.3.5 Concourse	200		
20.3.6 Time tables	200		
20.3.7 Loading areas	150		
<b>21 GENERAL BUILDING AREAS</b>			
21.1 Entrance			
21.1.1 Entrance halls, lobbies , waiting rooms	200		
21.1.2 Enquiry desks	500		
21.1.3 Gatehouses	200		





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