BURUX
ELECTRONICS

GENERAL CATALOG

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2020

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GENERAL CATALOG

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Permanent Lighting Equipment

BURUX
ELECTRONICS

Introduction

Since darkness has always been mankind's most restrictive fear, it has been a literary symbol for dominical and evil matters for a long time. Man overcame his old fear after he succeeded in inhibiting fire and for that he managed to gain control of his work schedule, his bustle and even his recreation. For millenniums, making fire and burning wood, mineral and herbal oils and even animal fat was the only source of light for mankind. Although cheap and more or less available, it was also accompanied by so many risks and hazards.

It was only during the last century that electricity made its way to industries and became a more convenient and cleaner way of light production. Though from a scientific perspective, there was no change in the method and foundation of lighting production and «hot material radiation» was still the source of light. Latter developments in physics led to the introduction and commercialization of the «gas discharge» method, which is considered a great improvement both in terms of consumption efficiency and diversity. Tubular fluorescent lamp, compact fluorescent (ESL), gas discharge (sodium vapor and mercury vapor) and metal halide lamps are all considered gas discharge lamps.

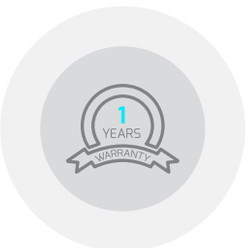
A much bigger step was taken with the introduction of light emitting diode (LED). The advantages of this achievement, especially after the last two decades' developments, are so bold and unavoidable that there has been legislation for the necessity of expanding the usage of LEDs instead of the former fluorescent and incandescent generations in so many countries, especially the developed countries. Although the most important impetus for the movement towards LED technology and its dominance in the lighting market is it's superiority over its competitors in energy efficiency, the fact that this newly emerged technology is also environmentally friendly can't be denied.

Furthermore, its high flexibility in various applications makes it an even more efficient technology.

In our country 25 to 30 percent of the total electricity production is spent on lighting, which is alarmingly (about 18 percent) higher than the global average. One of the easiest and most accessible ways to correct the energy consumption pattern in lighting is surely replacing the old high power consumption sources with the new LED technology. In this regards Burux company operates by the aim of producing high quality health lighting equipment.

Our Services

Since the beginning of its entrance to the production field and the presentation of its lighting products, BURUX has made it its goal and motto to offer high quality products and unexampled customer service we believe a conscious and punctilious consumer deserves this kind of treatment. BURUX's basket of diverse lighting products which includes products for general use, specialized use and, costume made products leave a great range to choose from.
Although based on statics, less than ۲ percent of BURUX's products are returned after being sold, we are committed to continue after sales services for a long time.

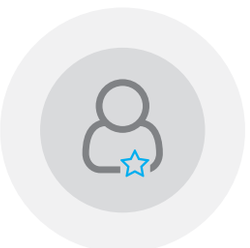


Quality guarantee

warranty for up to one years

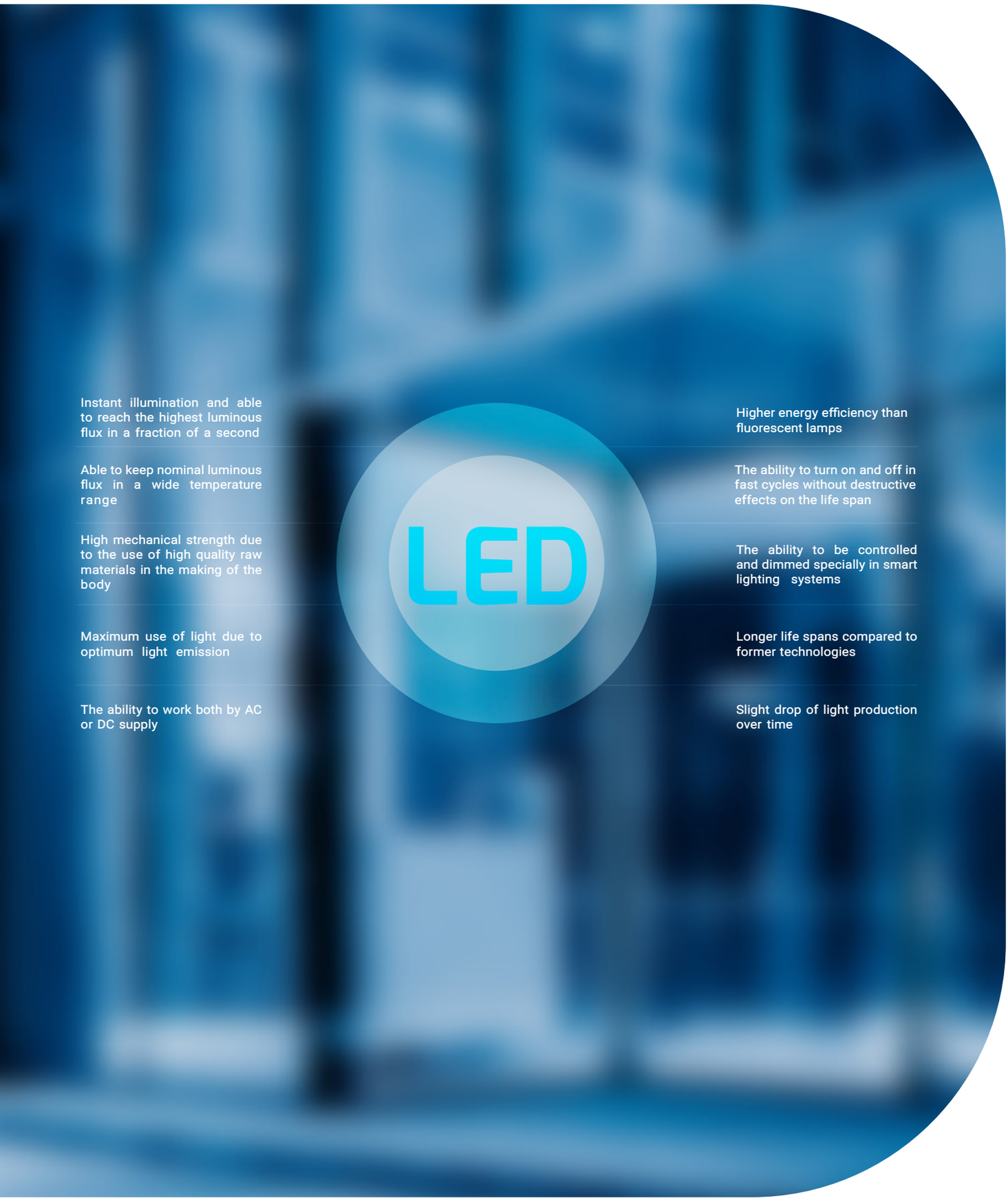
Immediate delivery

On time Delivery



Customer club

special privileges for loyal customers



Instant illumination and able to reach the highest luminous flux in a fraction of a second

Able to keep nominal luminous flux in a wide temperature range

High mechanical strength due to the use of high quality raw materials in the making of the body

Maximum use of light due to optimum light emission

The ability to work both by AC or DC supply

Higher energy efficiency than fluorescent lamps

The ability to turn on and off in fast cycles without destructive effects on the life span

The ability to be controlled and dimmed specially in smart lighting systems

Longer life spans compared to former technologies

Slight drop of light production over time

Quality Stability

Since the start BURUX has endeavored to move in its own formulated perspective and path to fulfill its goals in the shortest matter of time and the most perfect shape possible. The most important steps that have been taken in this regard so far are briefly described as follows:

- **the production of all types of PBT, polyamide and aluminum bodies using ”injection” and ”extruder”machines.**
- **the production of all shapes and sizes of light bulbs using ”blow molding” machines**
- **the assembly of SMD electronic components and also LED chips on boards using ”pick and place” technology**
- **the production of all types of plastic parts related to lamps and lights (T8 caps, FPL and, all kind of plastic caps) using injection machines.**

MANUFACTURED ACCORDING TO THE REQUIREMENTS OF OUR CUSTOMER

Nowadays with the rapidly changing tastes and needs of consumers of a product, the only companies capable of continuing to operate will be the ones that have the needed flexibility in this field. BURUX endeavors to create the necessary foundation for this flexibility by producing as many parts as possible.

REVITALIZING PRODUCTION CAPACITY IN THE LIGHTING INDUSTRY

Given the global market acceptance of BURUX products, the company is determined to increase its production capacity to meet market needs. BURUX complex also plans to enter the CIS, GCC, EU and Northeast African markets in the future.

COMPLIANCE WITH STANDARDS FROM THE BEGINNING OF THE PRODUCTION CYCLE

Without a doubt, high quality production, is a result of all processes involved in the production of a product. The more careful and closer the monitoring, the more assured we are of the quality of the finished product. Given that the most of the main parts of BURUX's products are made under our direct supervisions and experts' eyes monitoring, the high quality of our products can be ensured.

ENSURED CONTINUOUS PRODUCT SUPPLY

One of the most important parameters of the success of a product, at least in the lighting market, is a long and continuous presentation of the product. What a great deal of imported goods that, despite the initial popularity in the market, have still failed to sell simply because of a halt in the supplying process. In fact, the internationalization of product development in BURUX has paved the way for continuous supply of these products.

all production is for the

purpose of ultimately satisfying a consumer

GENERAL PANEL Series **70**

Polycarbonate lights have changed dramatically from other older ones, using a new generation of chipsets that are far less heat-generating from the previous generations, it also uses polymeric materials with heat sinking and heat transferring abilities without changing color or shape of the material. Features include high quality body and diffuser, low height, good edge width, simple and beautiful appearance and long life of LEDs and drivers.

GENERAL Series **28**

Manufactured at 10, 12, 15 watts using the latest technology, BURUX light bulbs have some interesting features that allow them to be used instead of incandescent, power save and even old LED light bulbs. The most important advantage of these lamps is the high optical efficiency and thus the reduction of electrical energy consumption. High durability due to the use of high quality components, stable exposure and a very slight drop in brightness during operation, beautiful appearance as well as uniform light distribution without any flickering are other strengths of this product range.

Ario Series **64**

The ARIO series are a replacement for the old fluorescent lamps (1x40, 2x40, 3x40, and 4x40). These lights with built-in or overlaid installation ability are the main lighting source for office and commercial spaces. The bodies of these lights are made entirely of aluminum, which is suitablefor all climates conditions even warmish areas. The LED chipsets are manufactured and assembled by «EPI STAR» company in Taiwan.

T8 Series **36**

Aluminum profile not only strengthens the lamp structure and prevents pressure-induced deformation during transportation and installation, but also over time, due to ambient heat, optimizes heat distribution and extends the useful life of LEDs and electronic components. Features of the T8 lamps include uniform light distribution, color quality, no color change of the body, un-breakability and cleanliness of the lamp reflector.

Arian Series **50**

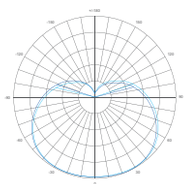
ARIAN also known as 40w linear light is one of the products with a very unique, advanced and, modern design. ARIAN has been produced and marketed as a replacement for similar fluorescent lights. This light is a suitable replacement for the FPL 2x36 and fluorescent lighting fixtures. The frame of this lamp is designed to have a very uniform light distribution.

GENERAL

Bulb family

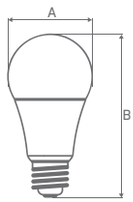
- Home
- Hotels & Restaurants
- Hospitals & Educational Centers
- Shopping Centers
- Office
- Indoor & Outdoor Halls

Model (Bulb type)	power (watt)	Lumen Output	GLS Replacement	Nominal Current	Dimension	PCS/Carton	Carton Weight	Order No.
A55	7 Watt	600 lm	50 W	61 mA	55x100mm	100 pcs	3.35 kg	237X
A60	10 Watt	810 lm	70 W	70 mA	60x110mm	100 pcs	3.35 kg	532X
A60	12 Watt	1050 lm	90 W	104 mA	60x118mm	100 pcs	3.44 kg	534X
A70	15 Watt	1300 lm	110 W	130 mA	70x130mm	50 pcs	5.05 kg	533X
A80	20 Watt	1750 lm	145 W	174 mA	80x155mm	50 pcs	7.26 kg	535X
A95	25 Watt	2200 lm	185 W	217 mA	95x185mm	50 pcs	12 kg	539X



WW	X=0
NW	X=1
DL	X=2

≈80 - 90 lm/W	12,500
25000 hr	E27
-20 to +40°C	>80
230 V - 50 Hz	230°



GIANT

Bulb family

Home

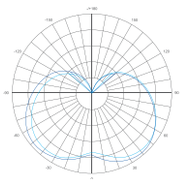
Hotels & Restaurants

Indoor & Outdoor Halls

Shopping Centers

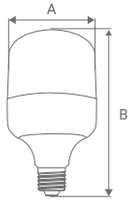
Office

model (Bulb type)	power (watt)	Lumen Output	GLS Replacement	Nominal Current	Dimension	PCS/Carton	Carton Weight	Order No.
T100	30 Watt	2400 lm	200 W	260 mA	120x200mm	12 pcs	4.7 kg	542X
T120	40 Watt	3600 lm	300 W	348 mA	118x225mm	12 pcs	7.6 kg	297X
T140	50 Watt	4300 lm	360 W	435 mA	140x235mm	8 pcs	4.35 kg	298X
T160	60 Watt	5200 lm	430 W	522 mA	160X280mm	8 pcs	6.2 kg	299X
T140 Diecast	80 Watt	7000 lm	585 W	380 mA	140x260mm	9 pcs	8 kg	548X



WW X=0
NW X=1
DL X=2

≈80-95 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
E27(80W=E40)
CRI >80
230°



CANDLE

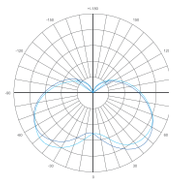
Candle family

Home

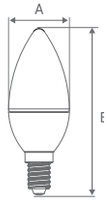
Hotels & Restaurants

Indoor & Outdoor Halls

model (Bulb type)	power (watt)	Lumen Output	GLS Replacement	Nominal Current	Dimension	PCS/Carton	Carton Weight	Order No.
C30	5 Watt	400 lm	33 W	45 mA	30x132mm	100 pcs	6.4 kg	134X
C37	7 Watt	560 lm	47 W	61 mA	37x106mm	100 pcs	6.4 g	137X
C37	7.5 Watt	640 lm	55 W	65 mA	37x106mm	100pcs	7 kg	138X



WW	X=0	≈80 lm/W	12,500
NW	X=1	25000 hr	E14
DL	X=2	-20 to +40°C	CRI >80
		230 V - 50 Hz	250°



TAIL-CANDLE

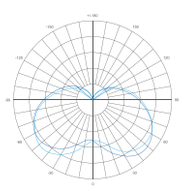
Candle family

Home

Hotels & Restaurants

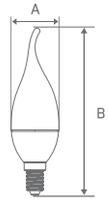
Indoor & Outdoor Halls

model (Bulb type)	power (watt)	Lumen Output	GLS Replacement	Nominal Current	Dimension	PCS/Carton	Carton Weight	Order No.
C30L	5 Watt	420 lm	33 W	45 mA	37x132mm	100 pcs	6.4 kg	124X
C37L	7 Watt	600 lm	50 W	61 mA	37x138mm	100 pcs	7 kg	127X
C37L	7.5 Watt	640 lm	55 W	65 mA	37x138mm	100 pcs	7 kg	128X



WW X=0
NW X=1
DL X=2

≈80 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
E14
CRI >80
250°



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Tube family

Home

Office

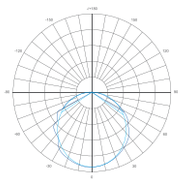
Hospitals & Educational Centers

PC	9	Watt	**850 lm**	18 W	78 mA	26x600mm	25 pcs	4.0 kg	142X
PC	18	Watt	**1700 lm**	36 W	157 mA	26x1200mm	25 pcs	7.6 kg	141X
PC	23	Watt	**2185 lm**	46 W	205 mA	26x1500mm	25 pcs	9.5 kg	143X

model
(Bulb type)

power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW	X=0
NW	X=1
DL	X=2

≈105 lm/W	12,500
25000 hr	G13
-20 to +40°C	>80
230 V - 50 Hz	160°

PL

Tube family

Home

Hotels & Restaurants

Hospitals & Educational Centers

Shopping Centers

Office

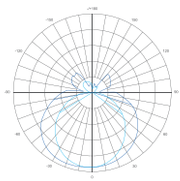
FPL **18** Watt

1700 lm
36 W
157 mA
43x425mm
25 pcs
2.84 kg
373X

model
(Bulb type)

power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW	X=0
NW	X=1
DL	X=2

≈100 lm/W	12,500
25000 hr	2G11
-20 to +40°C	CRI >80
230 V - 50 Hz	120°


more
transparency
MORE
EFFICIENCY

HALOGEN

Reflector family

- Home
- Hotels & Restaurants
- Shopping Centers
- Indoor & Outdoor Halls

SMD **6** Watt

540 lm
45 W
52 mA
50x55mm
100 pcs
4.7 kg
305X

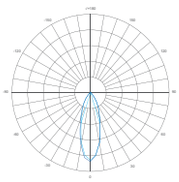
SMD **7** Watt

560 lm
55 W
60 mA
50x55mm
100 pcs
4.7 kg
306X

model
(Bulb type)

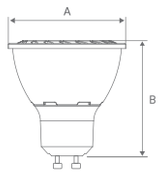
power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW	X=0
NW	X=1
DL	X=2

≈90 lm/W	12,500
25000 hr	GU10
-20 to +40°C	CRI >80
230 V - 50 Hz	38°



CYLINDER

Reflector family

Shopping Centers

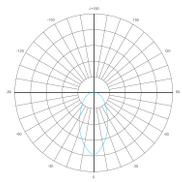
Hospitals & Educational Centers

R50	6 Watt	**520 lm**
		45 W
		52 mA
		50x90mm
		100 pcs
		6.3 kg
		282X
R63	7 Watt	**600 lm**
		50 W
		60 mA
		63x103mm
		50 pcs
		6.3 kg
		283X

model
(Bulb type)

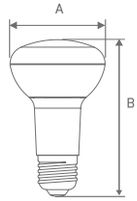
power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW	X=0
NW	X=1
DL	X=2

≈75 lm/W	12,500
25000 hr	E14 & E27
-20 to +40°C	CRI >80
230 V - 50 Hz	160°



5

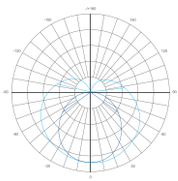
Linear family

T5	5 Watt	**450 lm**
		8 W
		43 mA
		315x22x37mm
		25 pcs
		4.0 kg
		201X
T5	9 Watt	**800 lm**
		15 W
		78 mA
		564x22x37mm
		25 pcs
		5.0 kg
		202X
T5	15 Watt	**1300 lm**
		24 W
		130 mA
		869x22x37mm
		25 pcs
		6.2 kg
		203X
T5	18 Watt	**1600 lm**
		30 W
		157 mA
		1179x22x37mm
		25 pcs
		5.7 kg
		204X

model
(Bulb type)

power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW X=0
NW X=1
DL X=2

≈85-90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
160°

ARIAN

Linear family

Home

Hotels & Restaurants

Hospitals & Educational Centers

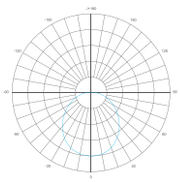
DASH **38** Watt

2700 lm
60 W
348 mA
595x42x65mm
20 pcs
8.2 kg
357X

model
(Bulb type)

power
(watt)

Lumen Output
GLS Replacement
Nominal Current
Dimension
PCS/Carton
Carton Weight
Order No.



WW	X=0
NW	X=1
DL	X=2

≈85 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
180°

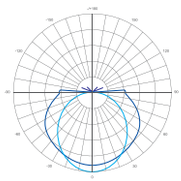
P-LINEAR

Linear family

WP 20 Watt	Lumen Output	1850 lm
	GLS Replacement	35 W
	Nominal Current	174 mA
	Dimension	600x80x75mm
	PCS/Carton	25 pcs
	Carton Weight	7.5 kg
	Order No.	572X
WP 40 Watt	Lumen Output	3700 lm
	GLS Replacement	70 W
	Nominal Current	348 mA
	Dimension	1200x80x75mm
	PCS/Carton	25 pcs
	Carton Weight	15 kg
	Order No.	574X
WP 50 Watt	Lumen Output	4600 lm
	GLS Replacement	85 W
	Nominal Current	435 mA
	Dimension	1200x80x75mm
	PCS/Carton	25 pcs
	Carton Weight	15 kg
	Order No.	575X

model (Bulb type)

power (watt)



WW X=0
NW X=1
DL X=2

≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
160°

26-LINEAR

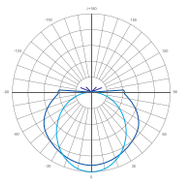
Linear family

T26	25 Watt	**2250 lm**
		40 W
		215 mA
		315x54x83mm
		9 pcs
		7.5 kg
		581X
T26	45 Watt	**4000 lm**
		75 W
		390 mA
		564x54x83mm
		25 pcs
		9 kg
		582X
T26	75 Watt	**6500 lm**
		120 W
		650 mA
		869x54x83mm
		25 pcs
		9 kg
		583X
T26	90 Watt	**8000 lm**
		150 W
		785 mA
		1179x54x83mm
		9 pcs
		15 kg
		584X

model
(Bulb type)

power
(watt)

Lumen Output
GLS Replacement
Nominal Current
Dimension
PCS/Carton
Carton Weight
Order No.



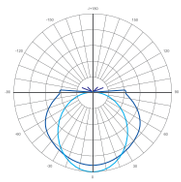
WW X=0
NW X=1
DL X=2

≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
160°

18

Linear family

model (Bulb type)	power (watt)	Lumen Output	GLS Replacement	Nominal Current	Dimension	PCS/Carton	Carton Weight	Order No.
T18	20 Watt	1800 lm	32 W	172 mA	315x58x46mm	16 pcs	7.5 kg	585X
T18	40 Watt	3200 lm	60 W	312 mA	615x58x46mm	16 pcs	9 kg	586X
T18	60 Watt	5200 lm	96 W	520 mA	869x58x46mm	16 pcs	9 kg	587X
T18	80 Watt	6400 lm	120 W	628 mA	1179x58x46mm	16 pcs	15 kg	588X



WW X=0
NW X=1
DL X=2

≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
160°


BURUX
ELECTRONICS
BURUX
PRODUCTS
use in indoor halls and outdoors

GLASS-PANEL

Panel family

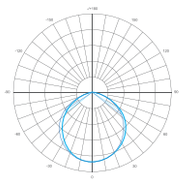
- Hotels & Restaurants
- Hospitals & Educational Centers
- Shopping Centers
- Office

GP	6 Watt	450 lm
		8 W
		52 mA
		95x40mm
		40 pcs
		6.5 kg
		622X
GP	12 Watt	900 lm
		16 W
		105 mA
		160x40mm
		20 pcs
		6.05 kg
		624X
GP	18 Watt	1350 lm
		24 W
		156 mA
		200x40mm
		10 pcs
		7.8 kg
		625X
GP	24 Watt	1800 lm
		32 W
		210 mA
		260x40mm
		10 pcs
		10 kg
		626X

model (Bulb type)

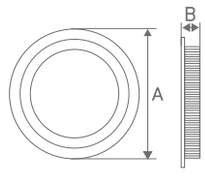
power (watt)

Lumen Output
GLS Replacement
Nominal Current
Dimension
PCS/Carton
Carton Weight
Order No.



WW X=0
NW X=1
DL X=2

≈75 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
120°



A RAD

Panel family

- Hotels & Restaurants
- Hospitals & Educational Centers
- Shopping Centers
- Office

Square **60** Watt

Lumen Output	**4800 lm**
GLS Replacement	90 W
Nominal Current	522 mA
Dimension	595x595x55mm
PCS/Carton	1 pcs
Order No.	31030x

Square **80** Watt

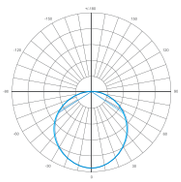
Lumen Output	**6400 lm**
GLS Replacement	120 W
Nominal Current	696 mA
Dimension	595x595x55mm
PCS/Carton	1 pcs
Order No.	31031x

Square **120** Watt

Lumen Output	**9600 lm**
GLS Replacement	180 W
Nominal Current	1043 mA
Dimension	595x595x55mm
PCS/Carton	1 pcs
Order No.	31032x

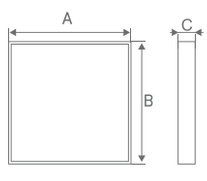
model
(Bulb type)

power
(watt)



WW	X=0
NW	X=1
DL	X=2

≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
120°



A RIO

Panel family

- Hotels & Restaurants
- Hospitals & Educational Centers
- Shopping Centers
- Office

Rectangular **30** Watt

2400 lm	
45 W	
261 mA	
125x1195x55mm	
1 pcs	
31036x	

Rectangular **60** Watt

4800 lm	
90 W	
522 mA	
195x1195x55mm	
1 pcs	
31035x	

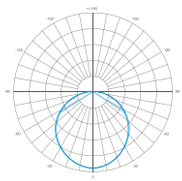
Rectangular **90** Watt

7200 lm	
135 W	
783 mA	
295x1195x55mm	
1 pcs	
31034x	

model
(Bulb type)

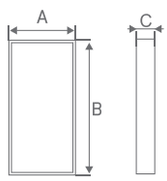
power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW	X=0
NW	X=1
DL	X=2

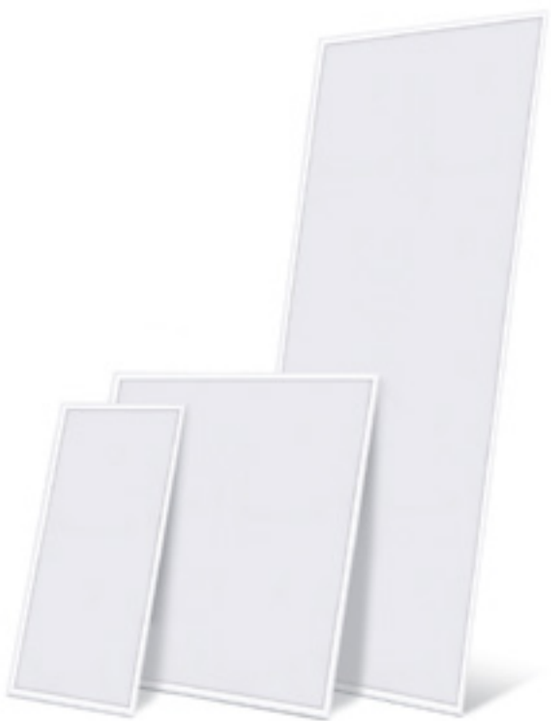
≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
120°



XTRUDE

Panel family

- Hotels & Restaurants
- Hospitals & Educational Centers
- Shopping Centers
- Office



Rectangular **24** Watt

Lumen Output	**1900 lm**
GLS Replacement	36 W
Nominal Current	208 mA
Dimension	295x595x12mm
PCS/Carton	4 pcs
Carton Weight	321X
Order No.	

Square **40** Watt

Lumen Output	**4000 lm**
GLS Replacement	75 W
Nominal Current	347 mA
Dimension	595x595x12mm
PCS/Carton	6 pcs
Carton Weight	314X
Order No.	

Rectangular **40** Watt

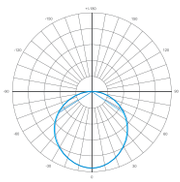
Lumen Output	**4000 lm**
GLS Replacement	75 W
Nominal Current	347 mA
Dimension	295x1195x12mm
PCS/Carton	6 pcs
Carton Weight	323X
Order No.	

Rectangular **72** Watt

Lumen Output	**7200 lm**
GLS Replacement	130 W
Nominal Current	626 mA
Dimension	595x1195x125mm
PCS/Carton	4 pcs
Carton Weight	326X
Order No.	

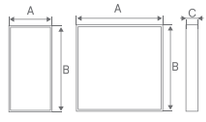
model
(Bulb type)

power
(watt)



WW X=0
NW X=1
DL X=2

≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
120°



A RAZ

Panel family

- Hotels & Restaurants
- Hospitals & Educational Centers
- Shopping Centers
- Office

Rectangular

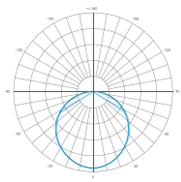
80 Watt

7200 lm
130 W
626 mA
595x595x50mm
4 pcs
321X

model
(Bulb type)

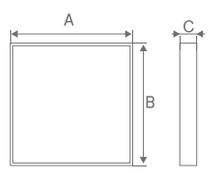
power
(watt)

Lumen Output
GLS Replacement
Nominal Current
Dimension
PCS/Carton
Carton Weight
Order No.



WW	X=0
NW	X=1
DL	X=2

≈90 lm/W	12,500
25000 hr	>80
-20 to +40°C	120°
230 V - 50 Hz	



GENERAL PANEL

Panel family

Home

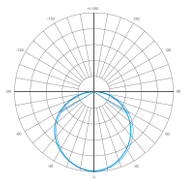
Hotels & Restaurants

Hospitals & Educational Centers

Shopping Centers

Office

model (Bulb type)	power (watt)	Lumen Output	GLS Replacement	Nominal Current	Dimension	PCS/Carton	Carton Weight	Order No.
GP-Bi	8 Watt	**630 lm**	52 W	70 mA	75 mm	50 pcs		755X
GP-Bi	15 Watt	**1350 lm**	112 W	130 mA	100 mm	40 pcs		756X
GP-Bi	18 Watt	**1620 lm**	135 W	155 mA	120 mm	20 pcs		757X
GP-Bi	22 Watt	**1980 lm**	165 W	190 mA	150 mm	20 pcs		758X
GP-Bi	28 Watt	**2520 lm**	210 W	240 mA	180 mm	20 pcs		759X



WW X=0
NW X=1
DL X=2

≈90 lm/W
25000 hr
-20 to +40°C
230 V - 50 Hz
12,500
CRI >80
120°

GENERAL PANEL

Panel family

Home

Hotels & Restaurants

Hospitals & Educational Centers

Shopping Centers

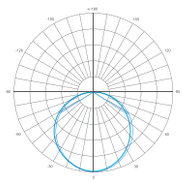
Office

GP-Bo	12 Watt	**840 lm**	70 W / 104 mA / 155 mm / 50 pcs / 505X
GP-Bo	18 Watt	**1260 lm**	105 W / 155 mA / 210 mm / 40 pcs / 506X
GP-Bo	25 Watt	**1800 lm**	145 W / 217 mA / 240 mm / 20 pcs / 507X
GP-Bo	32 Watt	**2300 lm**	190 W / 278 mA / 300 mm / 20 pcs / 508X

model
(Bulb type)

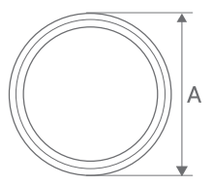
power
(watt)

- Lumen Output
- GLS Replacement
- Nominal Current
- Dimension
- PCS/Carton
- Carton Weight
- Order No.



WW	X=0
NW	X=1
DL	X=2

≈90 lm/W · 12,500 · 25000 hr · CRI >80 · -20 to +40°C · 120° · 230 V - 50 Hz



TECHNICAL **DATA**

When we talk about the suitability or inadequacy of the lighting of a space (such as a living room, an office, a shopping mall, etc), what factors do we consider? How do we compare the available parameters? These are the main issues, Because the lighting of environments in which human biomass flows directly, has various parameters that the user's ignorance of its importance and its positive or negative effects on those who work, live or disport themselves in that environment can't be wavered. In this section it has been attempted to provide information, as simple and as far as possible, without engaging with the physics specialized topics about light and illumination and the numerous formulas and relations involved in this branch of knowledge, with general but effective information and awareness of what to expect from the brightness of your environment. On the way to achieving this goal, we will first look at some basic and applied terms in passing and then the accepted standards in this area.

luminous flux (lumen)

The amount of light emitted from the light source in all directions is called the luminous flux or lumen, obviously, the higher the flux is, the brighter the lamp will be. Luminous flux is one of the most important parameters of choosing any lamp or luminaire, which is very important to pay attention to.

Propagation angle

the angle of light emission is the range of light output from the lamp that can vary depending on the type of reflector (frame) used. For example, the reflector of the study lamps create a limited angle for the lamps light emission to provide the light required for studying.

Glare

A glare ensues, with a high contrast between darkness and brightness. For example, the high-beam headlights at night, or staring directly at the sun or over-ambient light. Here, if the light of the study lamp is excessive, it can cause eye irritation and fatigue and reduce the effectiveness of studying.

light intensity (lux)

The amount of light emitted by a light source at a given distance is called light intensity on a surface, and its unit is Lux. Here, the light on the book increases or decreases depending on the type of the lamp.

Color rendering index (CRI)

The CRI in an optical source is an indicator of how close the colors of different objects are to the actual color under a specific light source. For example, in a store, if the light is not chosen correctly, we will have an issue detecting the actual color of clothing items. CRI is a number between 1 and 100 with 100 being the closest light quality to sunlight. LEDs have the highest CRI compared to other technologies.

Design standard (lighting)

As we are aware, a lighting designer must perform design operations taking into account many standard parameters such as light intensity, optical overlap, CRI, light emission, light color, surface reflection coefficient and many other components.
Lighting, ergonomically, shouldn't cause eye tiredness or straining or for example, in stores, lighting should be designed to minimize the eye tiredness or straining shades of objects so that the decoration does not fall out of shape.

Light Pollution

Light pollution

Light pollution refers to the excessive illumination of an environment by artificial lights. This phenomenon causes the stars and celestial bodies to dim in the sky. Light pollution will occur if the proper lighting isn't chosen. If a city doesn't have artificial lights, the unpolluted sky can be seen.

Sky Glow

Sky glow

Sky glow is the faint light of the sky which still shadows the horizon even as we leave urban areas.

Flicker Noise

Flicker noise

This expression indicates very rapid changes in the amount of brightness that may or may not be visually detectable depending on the frequency. In exceptional cases Flicker up to an approximate frequency of 80Hz is detectable by naked human eyes and this frequency is called the compound frequency. The flicker perceived by the human eye can cause an unpleasant experience for the observer.

THE MAIN LIGHT COLORS

Light color temperature has important applications in lighting, photography and film making, publishing, industry, film and animation, astronomy, gardening and many more. In fact, the term “color temperature” refers to light sources contrary to the original idea, the color temperature has nothing to do with the actual temperature of the light source and is related to the color of light produced by the lamp. Also, the lower the color temperature, the warmer the light will feel and the higher the number, the colder it will feel.

COLOR TEMPERATURE

In the scientific definition of color temperature, the black body is an element like Platinum which does not reflect any light and absorbs all the light radiated. If the black body warms up, it will produce different lights at different temperatures, covering the entire visible spectrum. To explain this definition, consider the color of molten metal. When a piece of steel is molten, its color first turns dark red, indicating the relation between temperature and color. As the temperature rises, the color of the molten metal turns violet blue and eventually emits ultraviolet radiation. When the metal is removed from the heat source, its color turns yellow, then orange to then red, so the color temperature is defined by the color of the black body at a given temperature and is expressed in Kelvin.

The meaning by “color” here is not absolute colors but the thermal spectrum of colors. In practice, the color temperature range is between 1000 and 10000 Kelvin, and at lower temperatures, it starts from red and yellow and reaches blue at higher temperatures.

Choosing the right temperature for any environment appropriate to its application is important since choosing the right color will affect the mood of the individual and will vary depending on the mood you want to create. In case of the old lamps (Incandescent light bulbs) it wasn’t possible to select the light color emitted by the lamp but, nowadays with the help of LED technology you can choose the color of lights.

BURUX has been able to capture audiences’ minds through a variety of years of products analysis and use of product packages, and each year it has received feedback from its agents and costumers and strives to improve using them. According to Burux’s new strategy, the products are divided into three categories based on the color of their light. This feature was created simply because of easy and quick access to the desired product, among other options, so that dear sellers can easily identify which color the light bulbs are. The three color categories include: «Blue» presenting day light (6500k), «Green» presenting cool white (4000k), and «Yellow» presenting warm white (2700k). The packaging is simple and minimal in appearance, consisting of two colors, executed on a white background. Gray is used for descriptions and one of three colors: blue, green, yellow is highlighted to meet customer needs.

Day light (6500k)

Suitable for industrial jobs, where non-sleepiness, precision, and elegance matter.

6500
K

Cool White (4000k)

Moderate or vivid natural light that is suitable for environments such as schools, offices, kitchens and more.

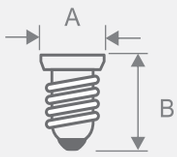
4000
K

Warm White (2700k)

Suitable for warm and intimate environments with a gentle and relaxing induction, such as bedrooms, reception rooms, patients' room in hospitals as well as accommodation.

2700
K

TYPES OF CAPS AND THEIR APPLICATIONS

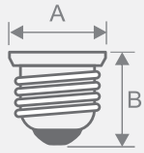


E14

14x25mm

Suitable for candle and reflector light bulbs

Small screw caps

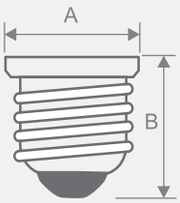


E27

27x27mm

Suitable for most normal light bulbs

Normal screw caps

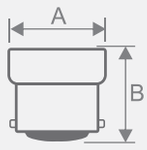


E40

40x48mm

Suitable for high wattage lamps

Large screw caps



B22d

22x25 mm

Suitable for British standard light bulbs

Bayonet caps

GU10

10 mm

Suitable for halogen type lamps with 230v voltage

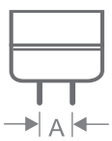
starter base

GU5.3

5.3 mm

Suitable for halogen type lamps with low voltage

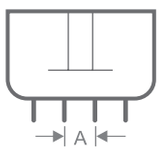
needle



G13

13 mm

Suitable for T8 fluorescent lamps



2G11

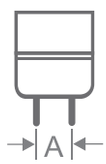
11 mm

Suitable for FPL lamps

G9

9 mm

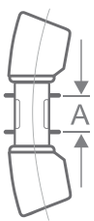
Suitable for chandelier lamps



G5

5 mm

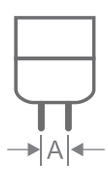
Suitable for fluorescent lamps (T8)



2G13

13 mm

Suitable for circle fluorescent lamps



GU4

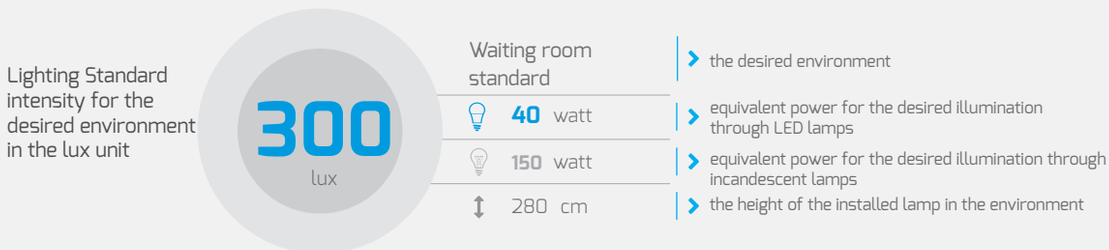
4 mm

Suitable for chandelier lamps

Needle chandelier or cartridge

Lighting standards

The amount of illumination required for different applications is suggested based on the accuracy and complexity of the work to be done.
For example for simple tasks such as walking in the hallway, the intensity of the illumination of 120 Lux is required, and for tasks such as assembling machines and fine-tuning tools that require very clear human vision, the illumination intensity of about 1000 Lux is required.
In the following, we have compiled the appropriate light intensity for different spaces by relative standard.
In all cases, given the height of the light, the equivalent power (Watts) to reach this level of brightness comes in both the use of LED lamps and incandescent lamps, which also confirms the savings achieved when using the LED lamps.
At the end of each section there is a «lighting for all» page number corresponding to the same space for selecting the appropriate products.



A FEW TIPS about the standard lighting pages:

All the numbers of brightness intensity are extracted from an international source

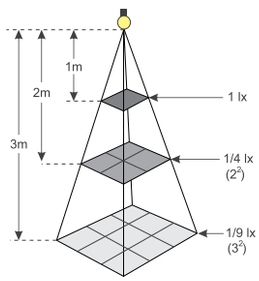
The required power (Watt) calculations are general and can be made up of several separate sources.

The ceiling height of each of the spaces is considered as conventional.

In selecting the space under investigation, it has been tried to use items that are generalizable and interpretable

Jump to page

Calculation Method Of Illumination Intensity (Lux) Through Formula



$$\text{illuminance} = \frac{\text{luminous flux}}{\text{surface area}}$$

$$\text{illuminance} = \frac{\text{luminous flux}}{\text{height}^2}$$

The intensity of light is the amount of light emitted from the light source at a given distance above a surface.
In a given environment, the surface area for illumination is of the opposite ratio to the intensity of illumination, but since lamps are generally mounted on the upper part of the ceiling, the distance and height of the ceiling also have a significant effect on the intensity of light. Obviously, the greater the distance the lamp has from the ground, the less the illuminance will be.
To calculate the illuminance of ambient light (Lux), we simply divide the luminous flux (Lumen) of the light bulb by the area of the illuminated environment.
Another way to calculate is that the luminous flux be divided by the square of the distance. Since the height of the light installation is a more constant component than the surface area required for illumination, we use this formula to estimate the luminous flux required in each environment.

How to measure the intensity of illumination through application

GET IT ON Google Play

Download on the App Store

Using software is a quick and easy way to measure the intensity of light. With smartphones, light intensity can be easily measured. You can use the barcode to these apps.

Calculation method of the power required in light intensity

Using the above formulas and knowing the amount of Lux, one can calculate the luminous flux and then calculate the amount of power required for standard lighting.

Kitchen

200 lux

- 15 watt
- 100 watt
- 280 cm

Living rooms and guest area

200 lux

- 15 watt
- 100 watt
- 280 cm

Bedroom

100 lux

- 7 watt
- 60 watt
- 280 cm

Vanity

500 lux

- 5 watt
- 40 watt
- 100 cm

Staircase
150 lux
- 10 watt
- 75 watt
- 280 cm

Reading Room
500 lux
- 36 watt
- 270 watt
- 280 cm

W.C
100 lux
- 4 watt
- 33 watt
- 220 cm

Halls
150 lux
- 10 watt
- 75 watt
- 280 cm

Mirror (bathroom)
500 lux
- 5 watt
- 34 watt
- 100 cm

Bathroom
100 lux
- 4 watt
- 33 watt
- 220 cm

Backyard
100 lux
- 4 watt
- 33 watt
- 280 cm

Parking lots
150 lux
- 11 watt
- 81 watt
- 280 cm

Relaxing at home is very important, in fact the feeling of security and relaxation at home is achieved by decorating and lighting according to people's taste. It may be everyone's opinion that after a tiring day, the best place to rest is in your own home. Lighting and the use of the right optical components in the environment may be the end point for all urban environmental pollution and human intellectual wellbeing.

House lighting
products
104

500 lux

Design studio

- **36** watt
- **270** watt
- 280 cm

300 lux

Conference rooms

- **22** watt
- **162** watt
- 280 cm

300 lux

Home office

- **22** watt
- **162** watt
- 280 cm

200 lux

Resting rooms

- **14** watt
- **108** watt
- 280 cm

500 lux

Public places

- **36** watt
- **270** watt
- 280 cm

500 lux

Computer rooms

- **36** watt
- **270** watt
- 280 cm

200 lux

Waiting rooms

- **14** watt
- **108** watt
- 280 cm

300 lux

Banks

- **99** watt
- **745** watt
- 600 cm

500 lux

Bank coffer

- **29** watt
- **216** watt
- 250 cm

150 lux

Staircase

- **12** watt
- **93** watt
- 300 cm

200 lux

Cafeteria

- **14** watt
- **108** watt
- 280 cm

100 lux

W.C

- **8** watt
- **62** watt
- 300 cm

Offices are spaces where employees spend at least about 8 hours daily. Luminous hygiene and standard lighting in office environments must be designed to be sufficient both for job and for not tiring the eyes of the employees.

Office Lighting Products

106

Supermarket

750 lux

- **90** watt
- **670** watt
- 360 cm

Hypermarket

1000 lux

- **330** watt
- **2485** watt
- 600 cm

Grocery stores

500 lux

- **40** watt
- **310** watt
- 300 cm

Tool shops

750 lux

- **62** watt
- **465** watt
- 300 cm

200 lux

Fitting room

- **7** watt
- **55** watt
- 200 cm

600 lux

Boutique

- **80** watt
- **600** watt
- 380 cm

200 lux

Coffee shops

- **17** watt
- **125** watt
- 300 cm

500 lux

Barber shops and beauty parlors

- **36** watt
- **270** watt
- 280 cm

300 lux

smithy

- **45** watt
- **330** watt
- 400 cm

300 lux

Automobile repair shop

- **25** watt
- **185** watt
- 300 cm

250 lux

Shopping malls

- **20** watt
- **155** watt
- 300 cm

750 lux

Car showroom

- **250** watt
- **1860** watt
- 600 cm

The storefronts are usually spaces that have a brighter lighting and use mixed colors for better view of the products on the shelves. But the point is that colors should look natural and even reduce the amount of distracting, shadows.

Stores Lighting Products

108

Restaurant

200 lux

- **30** watt
- **220** watt
- 400 cm

Hotel lobbies

300 lux

- **37**
- **275**
- 400

Conference rooms

300 lux

- **45**
- **330**
- 400

Reception
300 lux
25 watt
185 watt
300 cm

Halls
100 lux
8 watt
62 watt
300 cm

Rooms
250 lux
18 watt
135 watt
280 cm

Vanity
500 lux
5 watt
35 watt
100 cm

W.C
150 lux
12 watt
93 watt
300 cm

Industrial kitchen
500 lux
40 watt
310 watt
300 cm

Dining hall
200 lux
17 watt
125 watt
300 cm

Outdoor enclosure
100 lux
6 watt
43 watt
250 cm

One of the attractions of restaurants and hotels is the lighting used in them. If the lighting system of the restaurant is in harmony with the decor and creates an attractive environment, the use lighting fixtures in accordance with the restaurant environment and the type of decor will attract the customer. Therefore, it should be taken into consideration like other features of the hotels and restaurants. Knowing how to design a restaurant's lighting can make the restaurant experience more than just a meal for customer.

Restaurants and Hotels Lighting Products
110

1000 lux

Examination room

- **9** watt
- **70** watt
- 100 cm

500 lux

Laboratory

- **36** watt
- **270** watt
- 280 cm

200 lux

Hospitalization room

- **14** watt
- **110** watt
- 280 cm

100 lux

Intensive care

- **7** watt
- **55** watt
- 280 cm

250 lux

Waiting room

- **18** watt
- **135** watt
- 280 cm

200 lux

Reception

- **14** watt
- **110** watt
- 280 cm

300 lux

Public areas

- **22** watt
- **162** watt
- 280 cm

150 lux

Hallways

- **11** watt
- **80** watt
- 280 cm

300 lux

Elementary classrooms

- **25** watt
- **185** watt
- 300 cm

500 lux

High school -classrooms

- **41** watt
- **310** watt
- 300 cm

200 lux

Kindergartens

- **14** watt
- **110** watt
- 280 cm

Lighting health in a hospital and training center is one of the lighting needs of these complexes and needs unique solutions. it is clear that in these spaces there should be greater control over the spectrum and intensity of light. Offering distracting lighting in stressful places, such as MRI and CT scanning, can divert the patient's attention away from the environment, machinery and medical equipment, and reduce anxiety. This is especially important in hospitals and other health care settings, which aim to accelerate the process of improving patients.

Hospitals and educational centers

112

300 lux

Amphitheater

- **177** watt
- **1325** watt
- 800 cm

200 lux

Galleries and museums

- **30** watt
- **220** watt
- 400 cm

300 lux

Religious buildings

- **70** watt
- **520** watt
- 500 cm

750 lux

Factories and production centers

- **1000** watt
- **7450** watt
- 1200 cm

500 lux

Sports hall

- **662** watt
- **4970** watt
- 1200 cm

1000 lux

Production hall (high accuracy)

- **9** watt
- **70** watt
- 100 cm

200 lux

Train stations

- **17** watt
- **125** watt
- 300 cm

500 lux

Swimming pools

- **295** watt
- **2200** watt
- 800 cm

100 lux

The entrance area of the apartment

- **8** watt
- **62** watt
- 300 cm

100 lux

Warehouse

- **60** watt
- **440** watt
- 800 cm

150 lux

Parking lot

- **7** watt
- **50** watt
- 240 cm

300 lux

Control and diagnosis hall

- **25** watt
- **185** watt
- 300 cm

In manufacturing and industrial spaces that are indoors and where machines and production lines are located, benchmark lighting is critical to the quality of work performed by the staff. In such environments, light sources are the highest altitude so that light is uniformly distributed throughout the environment and does not cause glare. In such environments, depending on the characteristics of space, different types of light sources are used to provide both efficiency and quality of light and to create a good sense of place.

Indoors and Outdoors Lighting Products

114

Lighting Solutions for

In order for humans to need light to see and be seen in any environment, determining the source of light is very important. Given the vast market of light and illumination, if we were to choose a light source ourselves, it would be a little difficult to work without accurate information about the products and conditions available. In the world of light, the tastes of people vary, whether choosing for outdoors or indoors. I like to use warm colors and indirect light, and maybe a good white and direct light will make you feel good; this is where taste comes into play. But we have to accept that in the specialty of lighting, there are principles and criteria that different products have been designed and made for different environments by the engineers and specialists of this course. For example, it takes a long time for standard lighting conditions to be achieved by experimenting with exposing people to the angle of light, the quality of the light and its color, as well as studying their behavior and physical response to ideal conditions. So each product has its own application and its design is done considering the basic conditions in each environment. "Lighting for everyone", helps you to choose your desired lamp or luminaire light fixture. This section is designed to facilitate access and accurate product selection in less time for different environments. In the continuation of this section, we have separated all the different places and environments with the product that can be used in them. Right now, you can easily select the type of lighting and product you want by visiting their special pages.

LIGHTING SOLUTIONS For **HOME**

LIGHTING SOLUTIONS For **OFFICE**

LIGHTING SOLUTIONS For SHOP & STORE

LIGHTING SOLUTIONS
For **HOTEL & RESTAURANT**

LIGHTING SOLUTIONS For HOSPITAL & EDUCATIONAL CENTER

50 Arian Series

64 Ario Series

62 Arad Series

LIGHTING SOLUTIONS For INDOOR HALL & OUTDOOR

BURUX
ELECTRONICS
GENERAL CATALOG
2020