



ARIES
IMEX
TRADING
INC.

INDOOR LIGHTS

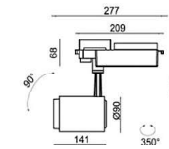


LED TRACK LIGHT



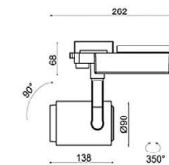
HY16305S

Power consumption:	Max 30W
Color temperature:	K
Beam angle:	15° /25° /40°
Color rendering index:	Ra≥80
Protection class:	IP20
Operating temperature:	-20°C~ +40°C
Rated life hours:	30000~50000H



HY16306S

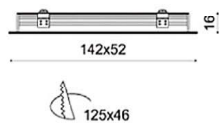
Power consumption:	Max 30W
Color temperature:	K
Beam angle:	12° /24° /40°
Color rendering index:	Ra≥80
Protection class:	IP20
Operating temperature:	-20°C~ +40°C
Rated life hours:	30000~50000H





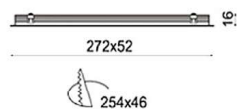
HB7609

Power consumption:	Max 2x5W
Color temperature:	3000K/4000K/5000K
Beam angle:	80°
Color rendering index:	Ra ≥ 80
Protection class:	IP20
Operating temperature:	-20°C ~ +40°C
Rated life hours:	30000~50000H

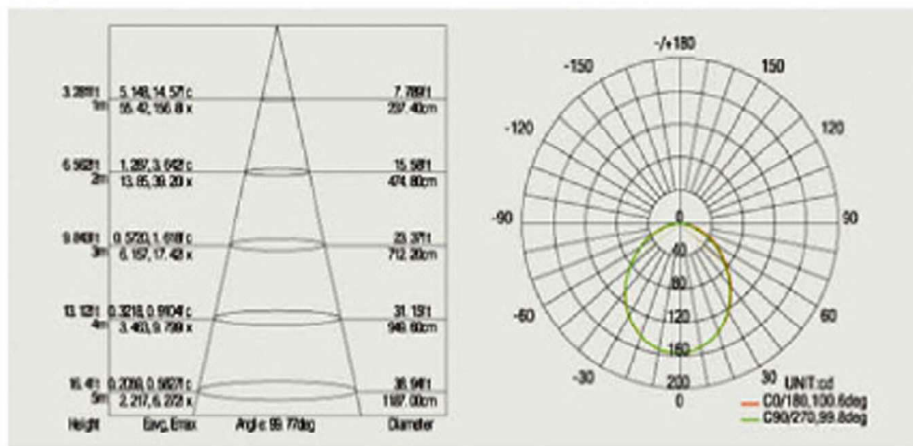


HB7609

Power consumption:	Max 2x5W
Color temperature:	3000K/4000K/5000K
Beam angle:	80°
Color rendering index:	Ra ≥ 80
Protection class:	IP20
Operating temperature:	-20°C ~ +40°C
Rated life hours:	30000~50000H



100°





HB1611 HB1610 HB1642	
Power consumption:	Max 4W
Color temperature:	3000K/4000K/5000K
Beam angle:	25°/45°
Color rendering index:	Ra ≥ 80
Protection class:	IP20
Operating temperature:	-20°C ~ +40°C
Rated life hours:	30000~50000H



HB1611



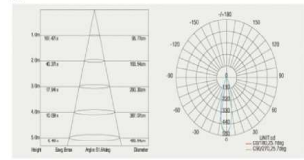
HB1610



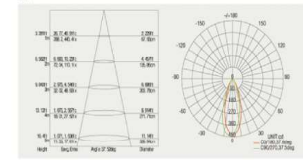
HB1642



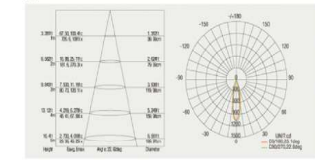
25°



40°



60°





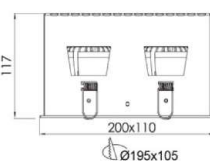
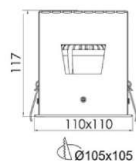
HB26351

HB26352



HB26351	
Power consumption:	Max 9W
Color temperature:	3000K/4000K/5000K
Beam angle:	15°/25°/40°/60°
Color rendering index:	Ra ≥ 80
Protection class:	IP20
Operating temperature:	-20°C ~ +40°C
Rated life hours:	30000 ~ 50000H

HB26352	
Power consumption:	Max 15W
Color temperature:	3000K/4000K/5000K
Beam angle:	15°/25°/40°/60°
Color rendering index:	Ra ≥ 80
Protection class:	IP20
Operating temperature:	-20°C ~ +40°C
Rated life hours:	30000 ~ 50000H



LED types



- Clean lens
- Spread lens
- Frosted lens
- The lower honey comb



HB16149



HB16150



HB16160



HB16257



HB16258

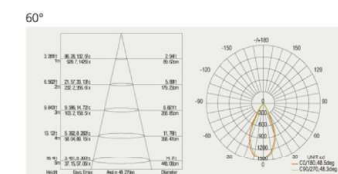
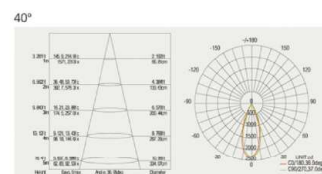
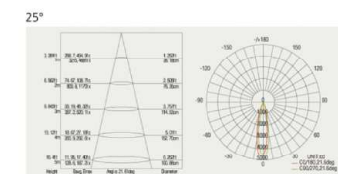
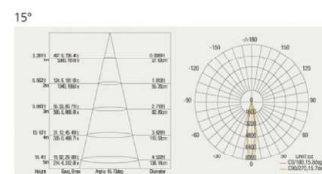


HB16259



HB16149 HB16150 HB16160 HB16257 HB16258 HB16259

Power consumption:	Max 15W
Color temperature:	3000K/4000K/5000K
Beam angle:	15°/25°/40°/60°
Color rendering index:	Ra ≥ 80
Protection class:	IP20
Operating temperature:	-20°C ~ +40°C
Rated life hours:	30000 ~ 50000H





CONCEPT

INVIGORATING
SUPERMARKETS

BENEFITS IN EACH AREA

SUPERMARKET LIGHTING
ELEMENTS

MODERN LIGHT IN CLASSROOM

INVIGORATING SUPERMARKETS RETAIL LIGHTING SOLUTION

When designing successful supermarket lighting, many elements need to be considered, such as colour rendition, reflection, contrast, and energy efficiency. Colour perception is one of the most important visual parameters in a retail environment as it influences the opinion of goods, buying decisions, and also determines the overall impression of the store itself.

Applying different modules inside the luminaires with various colour temperatures and colour points enhance the attraction of products by supporting their natural colours and highlighting certain tones. With professional food lighting, supermarkets are able to foster the in-store experience and attain customer loyalty as well. On the other hand, creating contrast ensures proper attention for the merchandise and gives guidance through the areas of the store that helps customers feel more comfortable.

Welcome to **Invigorating Supermarkets Solution** by

 **ARIES IMEX TRADING INC.**



“ Enhance the in-store experience with professional lighting design



SHELVES AREA

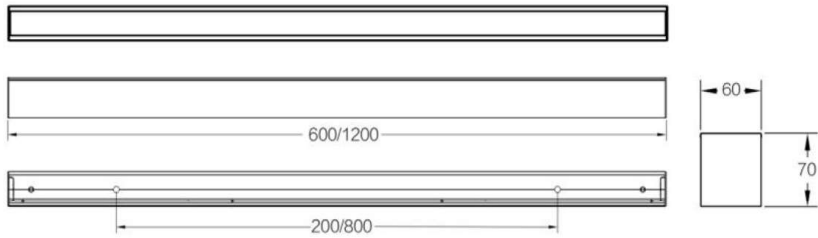
Linear light for worlds of shopping

Linear Pro light fixture combines performance, safety and reliability in order to comply with the specifications of industrial/ Supermarket lighting systems.

It has been developed over the linear concept, with PMMA lenses and several photometry options, which optimize lighting for different applications.

Its body is made of extruded aluminum, which makes the whole structure of the light fixture work as a heat sink.

LINEAR PRO



Benefits:

- Instant lighting;
- LED according to IEC 60048-2-43 for H2S (hydrogen sulfide);
- CRI>90 with R9>50 (better color reproduction);
- Light line up to 40m*(131") with one feed-in, without light gap
- High-efficiency LEDs: Up to 120lm/W
- No environment warming (no infrared emission);
- No object discoloration (no ultraviolet emission);
- Driver with input/output galvanic isolation;
- Constant luminous flux over the entire supply voltage range;
- PMMA lenses (acrylic);
- Easy installation: free of choice pendant points throughout the entire length of the fixture
- Life expectancy higher than 50,000 hours (L70)2.
- International WELL Building compliant

- 5 YEARS
- CRI >90
- LM80
- OSRAM DRIVER INTRAL
- OSRAM CHIPS
- 50000h
- UGR <16

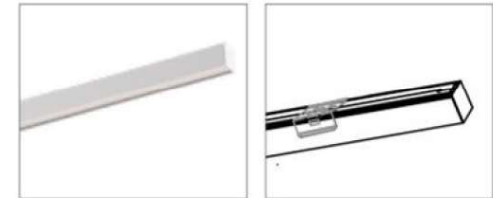


GUIDE TO COMPLETING THE INSTALLATION

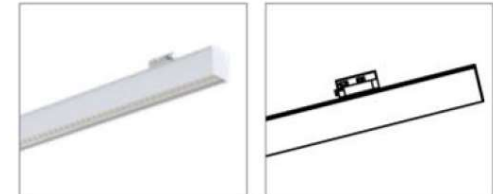
Continuous row



Ceiling surface-mounted



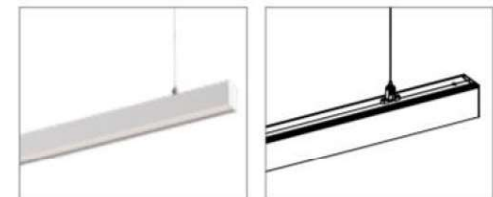
Track System



Pendant Tube Suspension



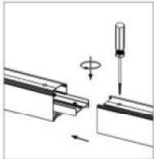
Wire Rope Suspension



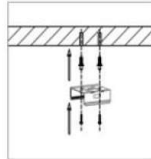
ACCESSORIES



I- connector
with two screws
Aluminium, powder- coated
L120mm, W57mm, H20mm
Load: 20kg



Fixing clip
with two screws
Spring steel, galvanised.
Load: 20kg,
L 50mm, H20mm



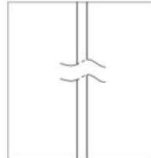
3-circuit adapter
for track luminaire, 250V
Plastic.
Load: 10kg.



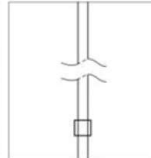
Canopy
with two screws
Metal, powder-coated
Ø65mm, H10mm
Load: 20kg



Pendant tube
metal, powder-coated
Non adjustable
Ø10mm, L600mm
Load: 20kg



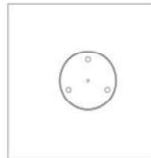
Adjustable pendant tube
Metal, powder-coated
Ø10mm, L600-1000mm
Load: 20kg



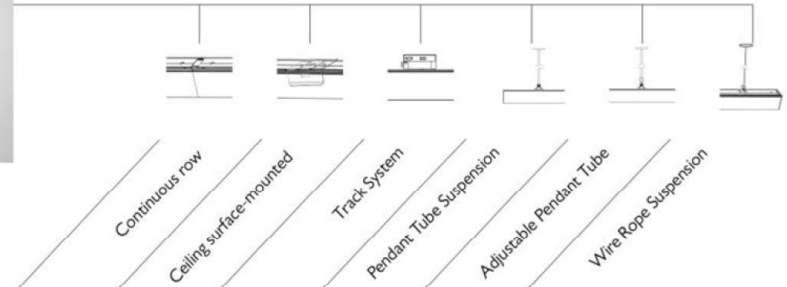
Mounting device
for subsequent
mounting
with two screws
Metal, powder-coated



Mounting bush
with three screws
metal
Ø 40mm, H10mm
Load: 10kg



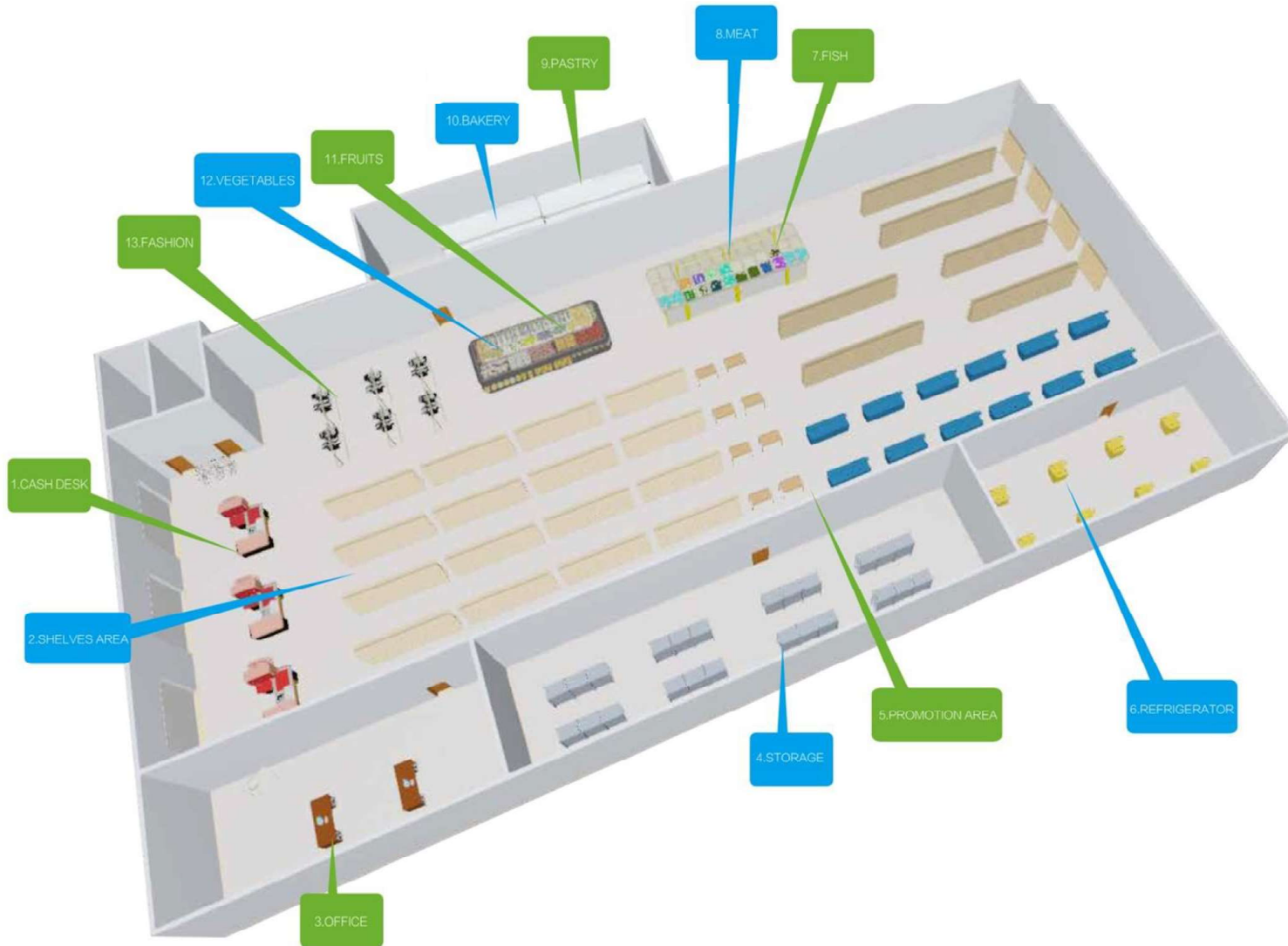
Wire rope
Ø 2.00mm, L 1,500mm.
Load: 20kg



	Continuous row	Ceiling surface-mounted	Track-System	Pendant Tube Suspension	Adjustable Pendant Tube	Wire Rope Suspension
1 I- connector	•					
2 Fixing clip		•				
3 3-circuit adapter			•			
4 Canopy				•	•	
5 Pendant tube				•		
6 Adjustable pendant tube					•	
7 Mounting device				•	•	•
8 Mounting bush						•
9 Wire rope						•

FUNCTIONALITY

Create a visual journey for shoppers with professional lighting.



7.FISH



8.MEAT



9.PASTRY



10.BAKERY



11.FRUIT



12.VEGETABLES



13.FASHION



1.CASH DESK



2.SHELVES AREA



3.OFFICE



4.STORAGE

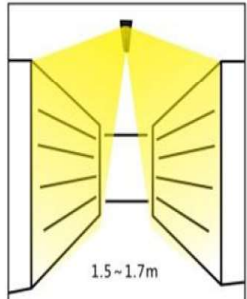


5.PROMOTION AREA



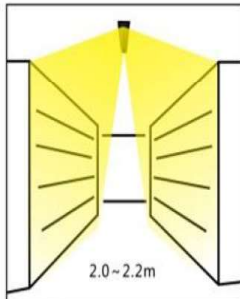
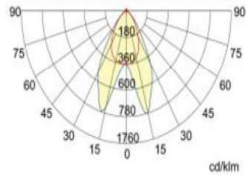
6.REFRIGERATOR

Application scenarios



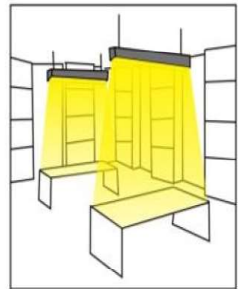
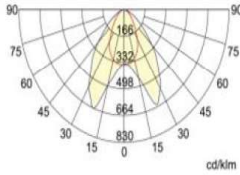
1.5~1.7m

G1260AN 2-20°x65°

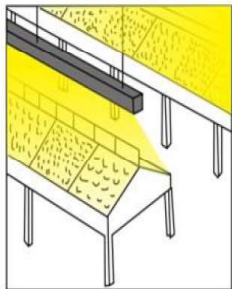
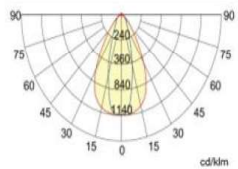


2.0~2.2m

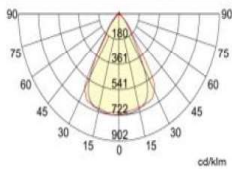
G1260AW 2-30°x65°



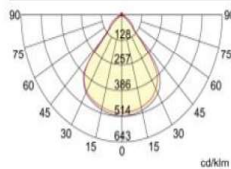
G1260D 30°x65°



G1260E 65°x70°



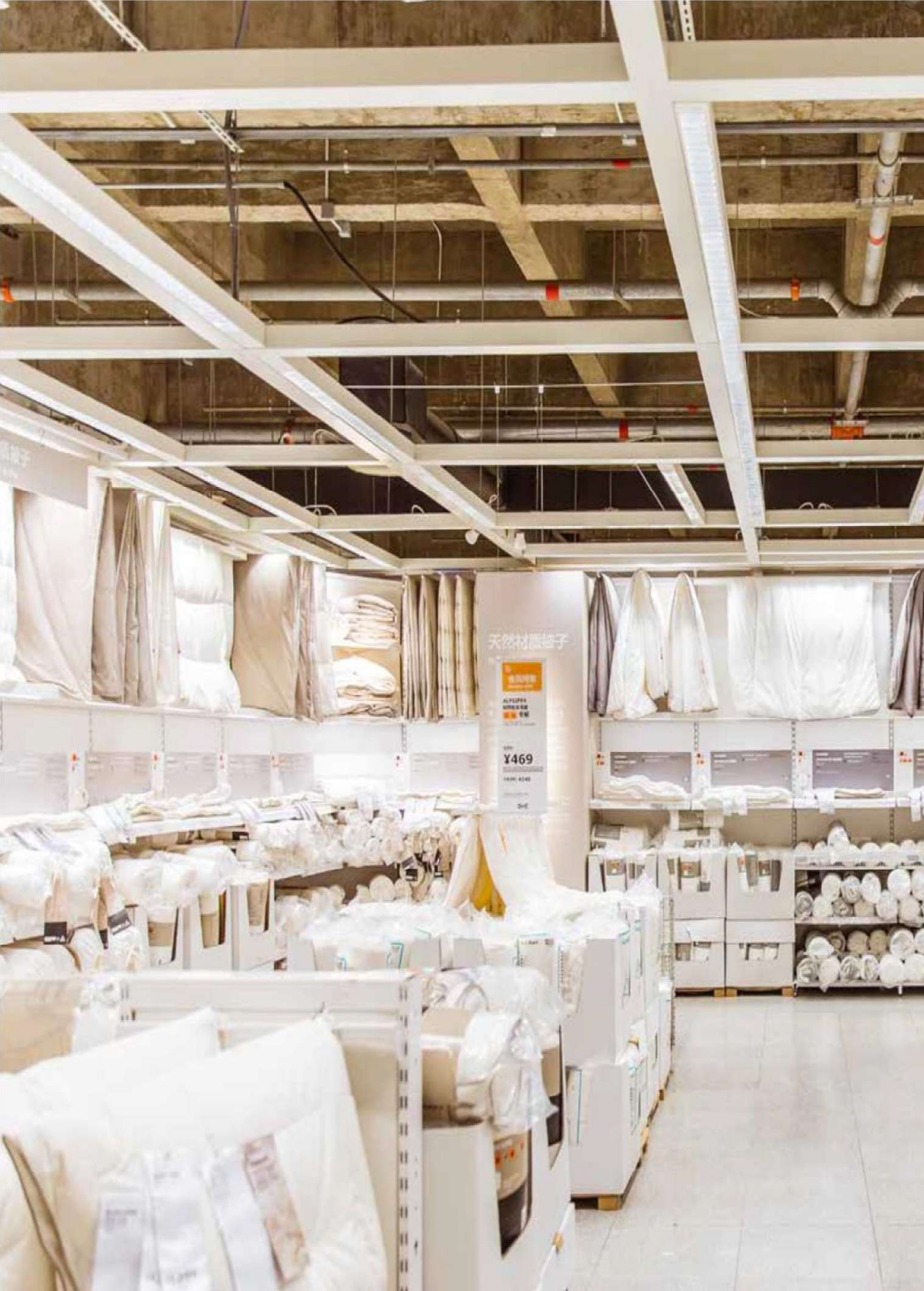
G1260F 85°x85°



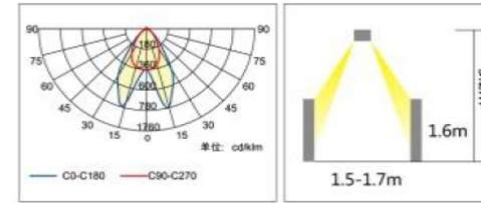
SHELF ILLUMINATION

Continuous lighting lines with LED technology are ideal for open spaces in the store, arranged parallel to the shelving. Positioned centrally over the aisles, the fixtures utilize double asymmetric reflectors that direct light onto the shelves and floor, providing an ideal amount of vertical illumination. This way no light is wasted, therefore fewer light sources are needed to provide sufficient levels of illumination, bringing savings of up to 40%.

CONTINUOUS ROW provides flexibility in a robust manner while offering a clean and elegant finish: tight luminaire to luminaire connection, no light leaks and no visible screws.



GI260AN 2-20°x65°



2-20° *65° Symmetric wide reflector

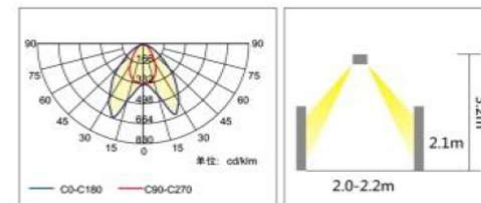
- Slightly wide, sym. light distribution for illuminating two vertical surfaces (wall/shelf) with a homogeneous distribution of brightness without a visible lamp
- URG < 16, precise PC reflector and PMMA lens wall washer with 2*20° symmetric
- 90% Optic efficiency

2-20° *65°

Applications:

Selves prim-layers elevation illuminance is up to 900Lux for 1.5-1.7 meters width channel.

GI260AW 2-30°*65°



2-30° *65° Symmetric wide reflector

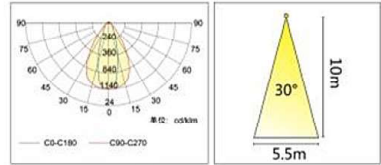
- Slightly wide, sym. light distribution for illuminating two vertical surfaces (wall/shelf) with a homogeneous distribution of brightness without a visible lamp
- URG < 16, precise PC reflector and PMMA lens wall washer with 2*30° symmetric
- 90% Optic efficiency

2-30° *65°

Applications:

Selves prim-layers elevation illuminance is up to 900Lux for 2.0-2.2 meters width channel.

G1260D 30°*65°



30°*65° Symmetric narrow reflector optic(UGR<16)

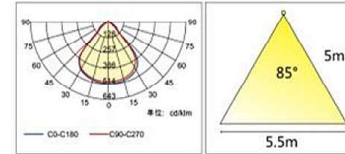
- Precise, deep light distribution for accurate illumination of areas from a light point height of 10m/32.8'
- UGR<16 through precision PC reflector and PMMA optic 30°
- 90% Optic efficiency

30° *65°

Applications:

CASH DESK, conference and lecture halls, warehouse and industrial buildings, receptions, directional light

G1260F 85°*85°



85°*85° Symmetric reflector optic(UGR<19)

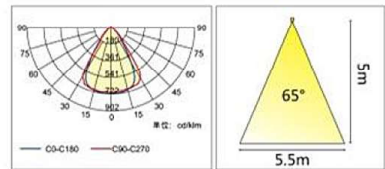
- Wide and deep light distribution for precise and generous illumination of areas up to a light point height of 5m/16.4'
- UGR<19 through precision PC reflector and PMMA optic 85°
- 90% Optic efficiency

85° *85° (UGR<19)

Applications:

Supermarkets paths, offices and workspaces, conference and training rooms, educational institutions, receptions, directional light from low heights of up to 5m/16.4'

G1260E 65°*70°



65°*70° Symmetric reflector optic(UGR<16)

- Wide and deep light distribution for precise and generous illumination of areas up to a light point height of 5m/16.4'
- UGR<16 through precision PC reflector and PMMA optic 65°
- 90% Optic efficiency

65° *70° (UGR<16)

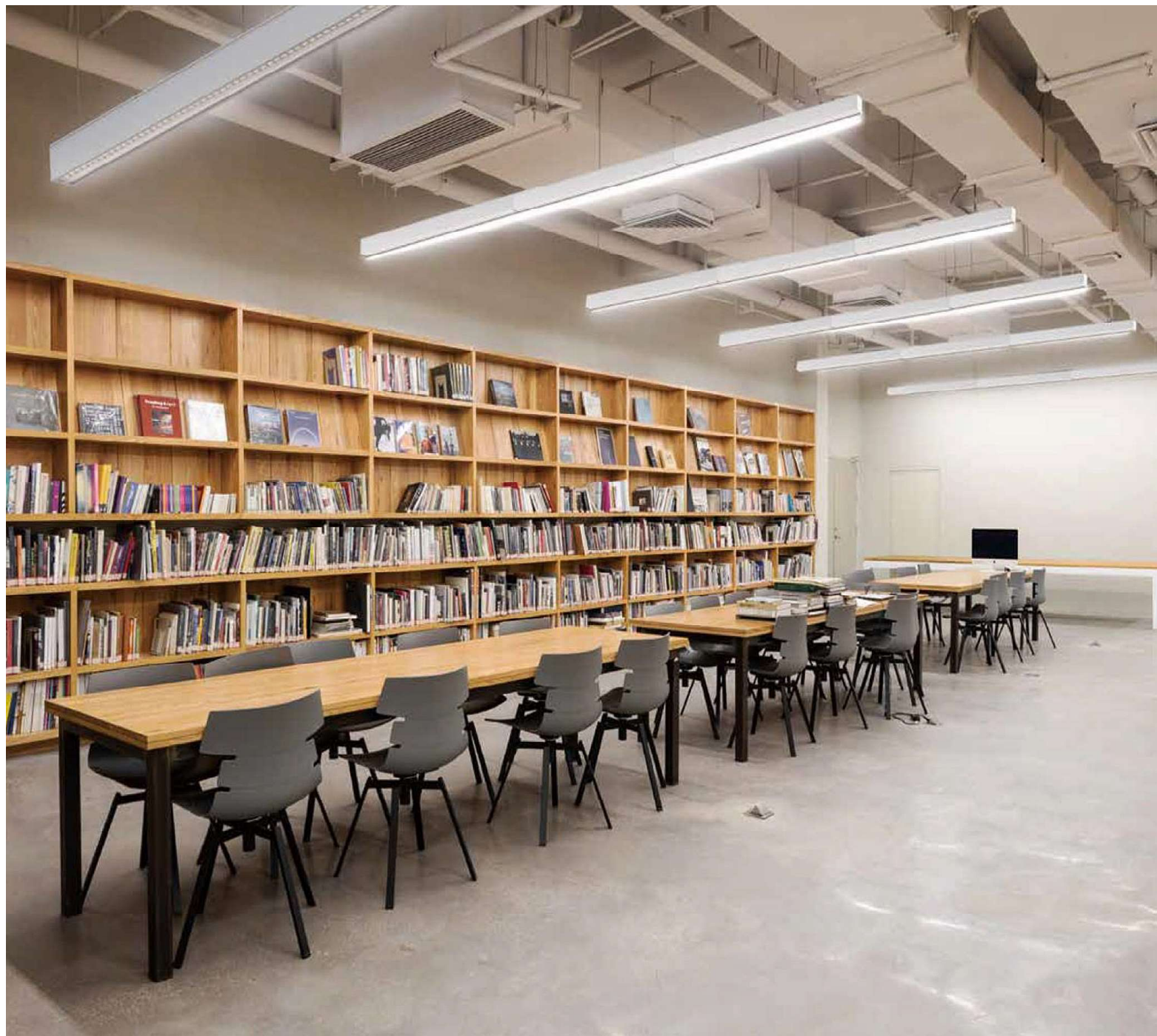
Applications:

Offices and workspaces, conference and training rooms, educational institutions, receptions, supermarkets (cashiers desks and paths), directional light from low heights of up to 5m/16.4'



Linear Pro

Light source	LED SMD
Power	MAX. 60W
Correlated Color Temperature	3000K
	4000K
	5000K
Color Rendering Index	>80
	>90
Standard deviation color matching (SDCM)	3 (with a tolerance of +/- 0.005 on color point measurement)
Median useful life L70B50	50,000 hours
Median useful life L80B50	30,000 hours
Median useful life L90B50	20,000 hours
Average ambient temperature	+25°C
Operating temperature range	-25°C ~ +45°C
Driver	Built-in
Mains voltage	180-260V AC/ 50-60Hz
	220-240V AC/ 50-60Hz
	120V/270V AC/ 50-60Hz
Dimming	Dali dimming on request
	0-10V dimming
	ON/OFF
Material	Housing Aluminum
	Reflector: PC
	Lens: PC
Finish	White
	Black
Dimension	L600*W60*H70mm
	L1200*W60*H70mm





🌱 Create a visual journey for shoppers with professional lighting



SHELVES AREA Asymmetric

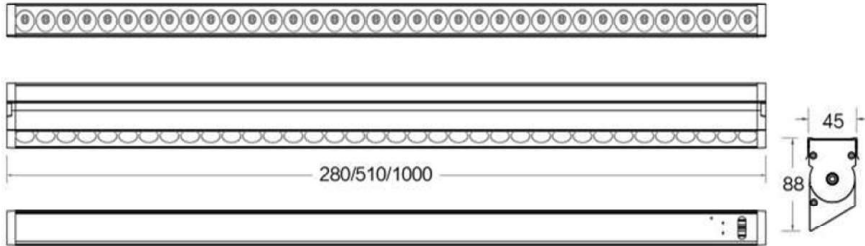
Speical Light for display

There's no doubt that as humanbeings, we crave daylight. Where possible, architects will fnd ingenious ways of incorporating it into new buildings, but there will always be places where artificial lighting is the only option. How do we strike a balance between the role of light,on the one hand, and the immensepower of nature on the other?

Star-K set out to investigate. Creating the right in-store ambience can make customers feel at ease and enhance the shopping experience. Our special lighting solutions are designed to bring out the best in the appearance of all your products.

LINEAR PRO

SHELVES AREA Asymmetric - W1072 65°*65° 30°

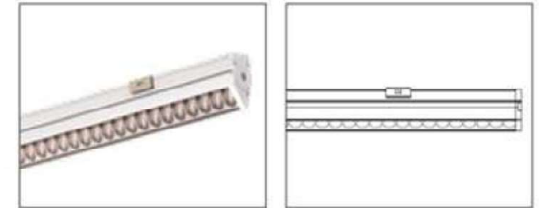


Light source	LED SMD
Power	18W/36W/63W
Correlated Color Temperature	3000K 4000K 5000K
Color Rendering Index	>80 >90
Median useful life L70B50	50,000 hours
Mains voltage	180-260V AC/ 50-60Hz 220-240V AC/ 50-60Hz 120V/270V AC/ 50-60Hz
Operating temperature range	-25°C – +45°C
Driver	Built-in
Mains voltage	180-260V AC/ 50-60Hz 220-240V AC/ 50-60Hz 120V/270V AC/ 50-60Hz
Dimming	Dali dimming on request 0-10V dimming ON/OFF
Material	Housing Aluminum Reflector: PC Lens: PC
Finish	White Black

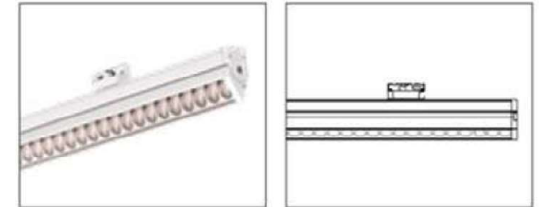


GUIDE TO COMPLETING THE INSTALLATION

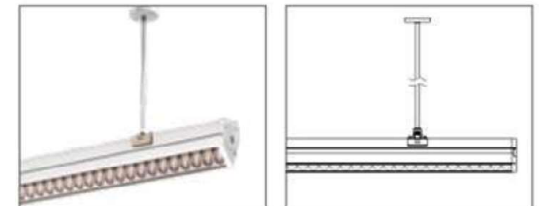
Ceiling surface-mounted



Track system



Straight or Telescopic Boom

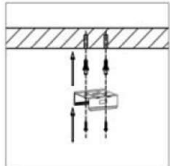


ACCESSORIES



Fixing clip

with two screws
Spring steel, galvanised.
Load: 20kg.
L 50mm, H20mm



3-circuit adapter

for pendant luminaire, 250V
Plastic.
Load: 10kg.



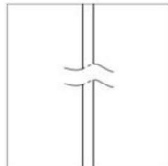
Canopy

with two screws
Metal, powder-coated
Ø65mm, H10mm
Load: 20kg



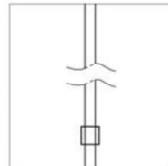
Pendant tube

metal, powder-coated
Non adjustable
Ø10mm, L600mm
Load: 20kg



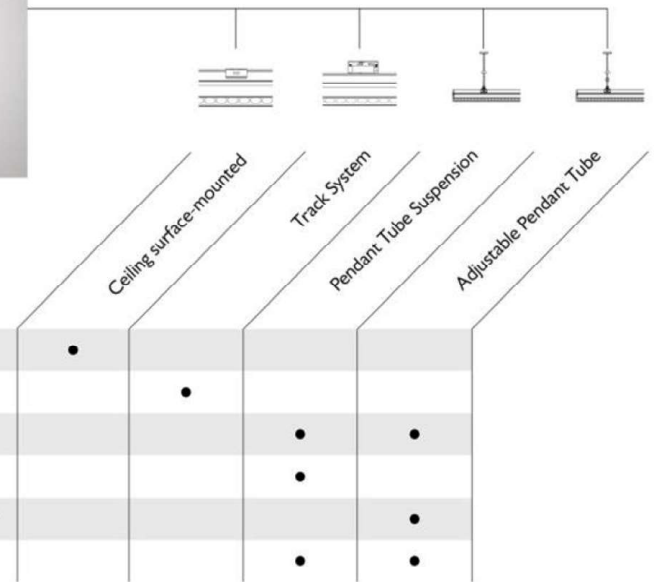
Adjustable pendant tube

Metal, powder-coated
Non adjustable
Ø10mm, L600-1000mm
Load: 20kg

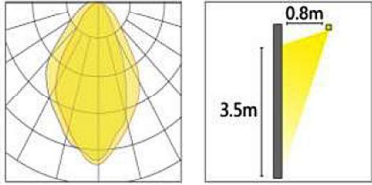


Mounting device

for subsequent
mounting
with two screws
Metal, powder-coated



WI1072 65°*65° 30° Asymmetric

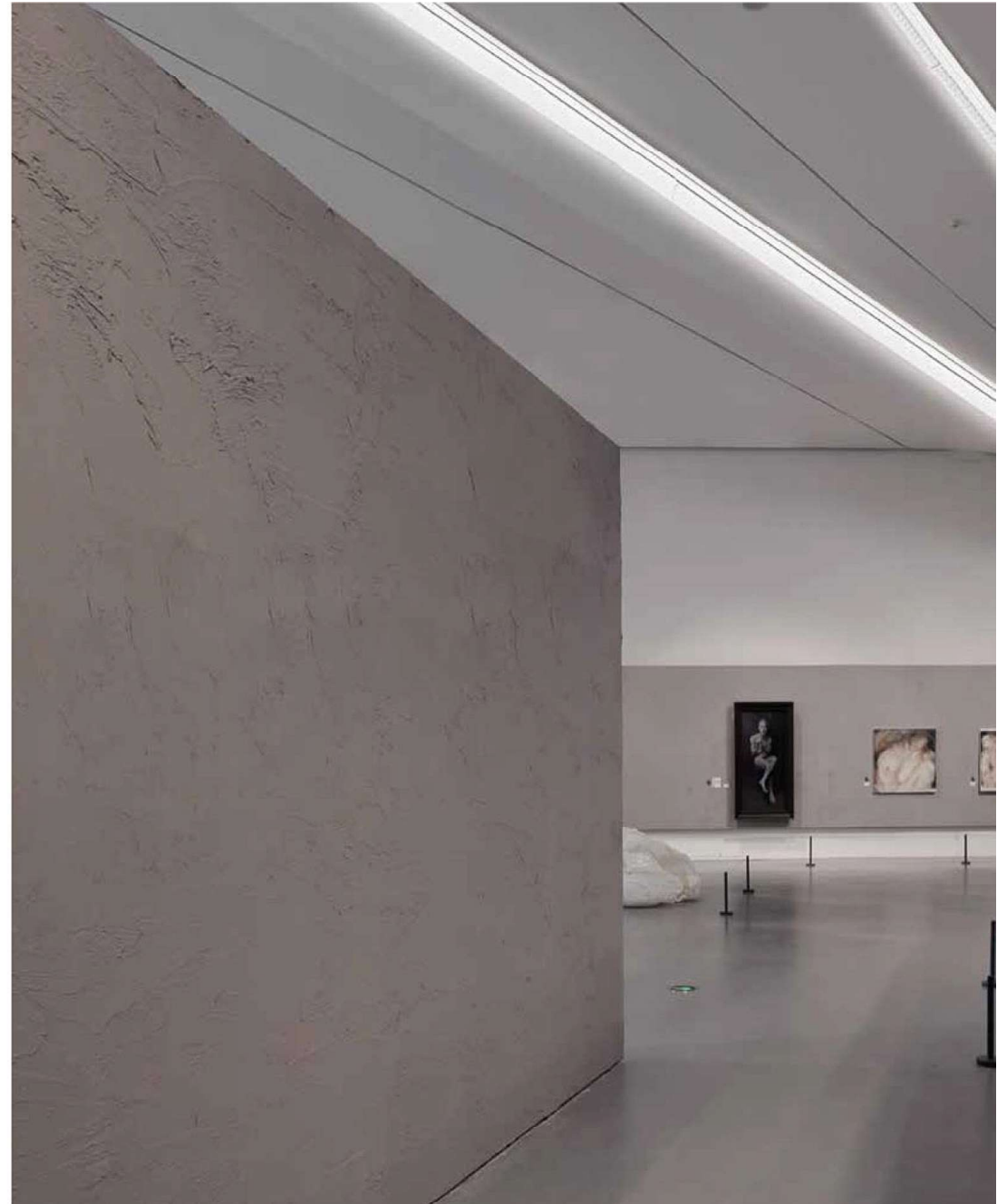


65°*65° Asymmetric narrow reflector

- Slightly wide, asym. light distribution for illuminating one vertical surface (wall/shelf) with a homogeneous distribution of brightness without a visible lamp.
- Precise PC reflector and PMMA lens wall washer asymmetric.
- 88% Optic efficiency.

Applications:

Uniform illumination of shelves/walls in the outer aisles in libraries, supermarkets, shops, galleries or ware-houses with close distance (0.8m/2.62') to the illuminated surfaces





T&P

DISTINCTIVE STORE IMAGE

Beside its functional value, lighting is a key factor in creating a distinctive image of the store and highlighting the brand. It is not only enhancing the look and appeal of the merchandise, but also affects the feeling of the space itself. A modern lighting solution will contribute to the supermarket's business performance to a great extent.

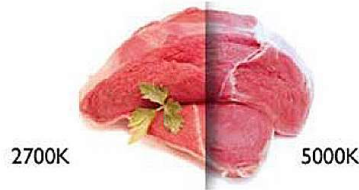
LIGHT CONTROLS

A supermarket requires not only the right lighting for each specific area but also an easy-to-manage system with sensors that guarantee energy saving. Presence detectors are implemented in the storage area, in the refrigerator room and in the offices to make sure lighting is used only where needed. At the same time, daylight sensors ensure the maximum usage of available natural light for the visual comfort of customers and staff. Time-based control is ideal for the automatic switching and dimming of lighting according to a schedule using pre-defined lighting scenes, for instance at cleaning and restocking.

EFFICIENCY

Refrigeration and lighting account for over 50 percent of total energy use in the average supermarket. By combining the latest energy efficient technology and lighting design with smart controlling of the system, SLE provides a sustainable solution that guarantees keeping the monthly energy bills low and that is easy to maintain in the long run.

100% EXPERTISE



LIGHT QUALITY

Good quality lighting in a supermarket is able to help customers to make the right buying decisions and, at the same time, creates a pleasant shopping environment that stimulates purchase behaviours. Next to perfect colour rendition, applying the right light with appropriate colour temperature for fresh products such as fish, meat, bread, pastry, fruits and vegetables is essential. Thus these areas are illuminated using specific Food Colours LED luminaires with high CRI values.

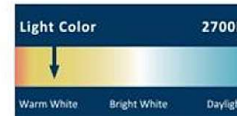


CRI70

CRI90

T&P

Emphasize the freshness of products and stimulate purchase behaviour.





T&P

Emphasize the freshness of products and stimulate purchase behaviour.



FRUITS & VEGETABLES

The fruit and vegetable section often takes centre stage at the entrance. The colours of fresh, appetising green produce tempt customers and turn their minds to buying. The CCT (correlated colour temperature) of FRUIT module is ideal to support the vibrancy of rich natural colours and ensures that customers can easily assess the quality of the items.



MEAT & COLD CUTS

A warm white full spectrum light rich in red tones enhances the natural colour of the meat. Light sources with MEAT module inside are ideal for highlighting the freshness of displayed meat products while ensuring that white elements remain naturally white. The extra MEAT+ is recommended to emphasize red colour tones even more.



BREAD, PASTRIES & CHEESE

Few things are more tempting than freshlybaked goods and tasty cheese. Often bought on impulse, they positively influence a supermarket's turnover. The warm, brownish shades of GOLD CCT add a crispy look, enhancing the colour; while with the golden shades of GOLD+ we can achieve the "fresh out of the oven" appearance to make sure bakery products cannot be overlooked.



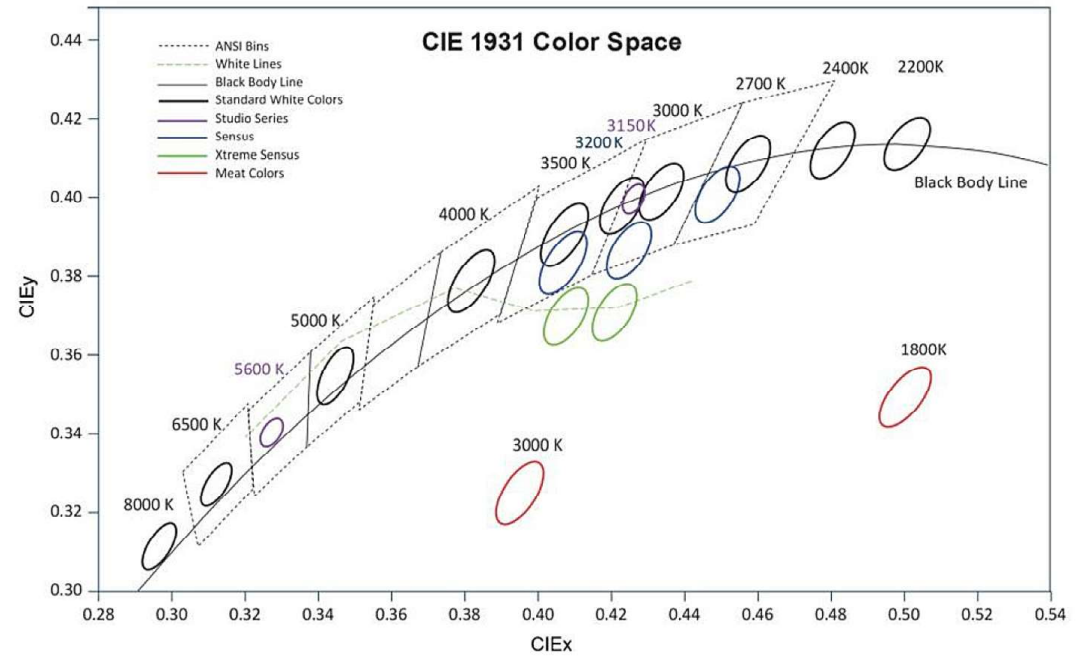
FISH, FROZEN PRODUCTS & DAIRY

Such products are displayed in special cabinets that are maintained at low temperatures. It is therefore beneficial to use the cool white light of the FISH module to support the perception of freshness. Cut fish with red flesh, however, looks best under warmer colour lighting. Whether cold or warm, the lighting should provide good rendition of reds and whites to bring out the best in all colours.

T&P

Photometric characteristics

Application specific colours for attractive product presentation.





T&P

Modern Pendant for Fresh Food PF300



Retail stores, especially food and fashion TF100



Light is sales-promoting TF080



Hot Sale Promotion TF500
Simple track spotlights for flexible retail lighting



As a retailer you have to consider the use of different devices (modern pendant, simple track and hot sale promotion) and the messages that are communicated.



“ To create inspiration or create background. Simplification on the one hand, enrichment on the other.



Modern Pendant for Fresh Food

Developed a range of luminaires that minimize discoloration by utilizing a specially selected light spectrum. The optical design of the STAR-P product line ensures optimum homogeneity for the light distribution.

Features

- Attractive design
- Fresh Food Rose and Fresh Food Meat dedicated spectrum for meat counters
- Fresh Food Champagne dedicated spectrum for fruits, vegetables, bread and cheese counters suitable for a wide range of applications and ideal for enhancing the appearance of fresh food produce

Create a sleek and serene effect

With dynamic lighting, retailers can stand out on a busy shopping street and draw customers inside.

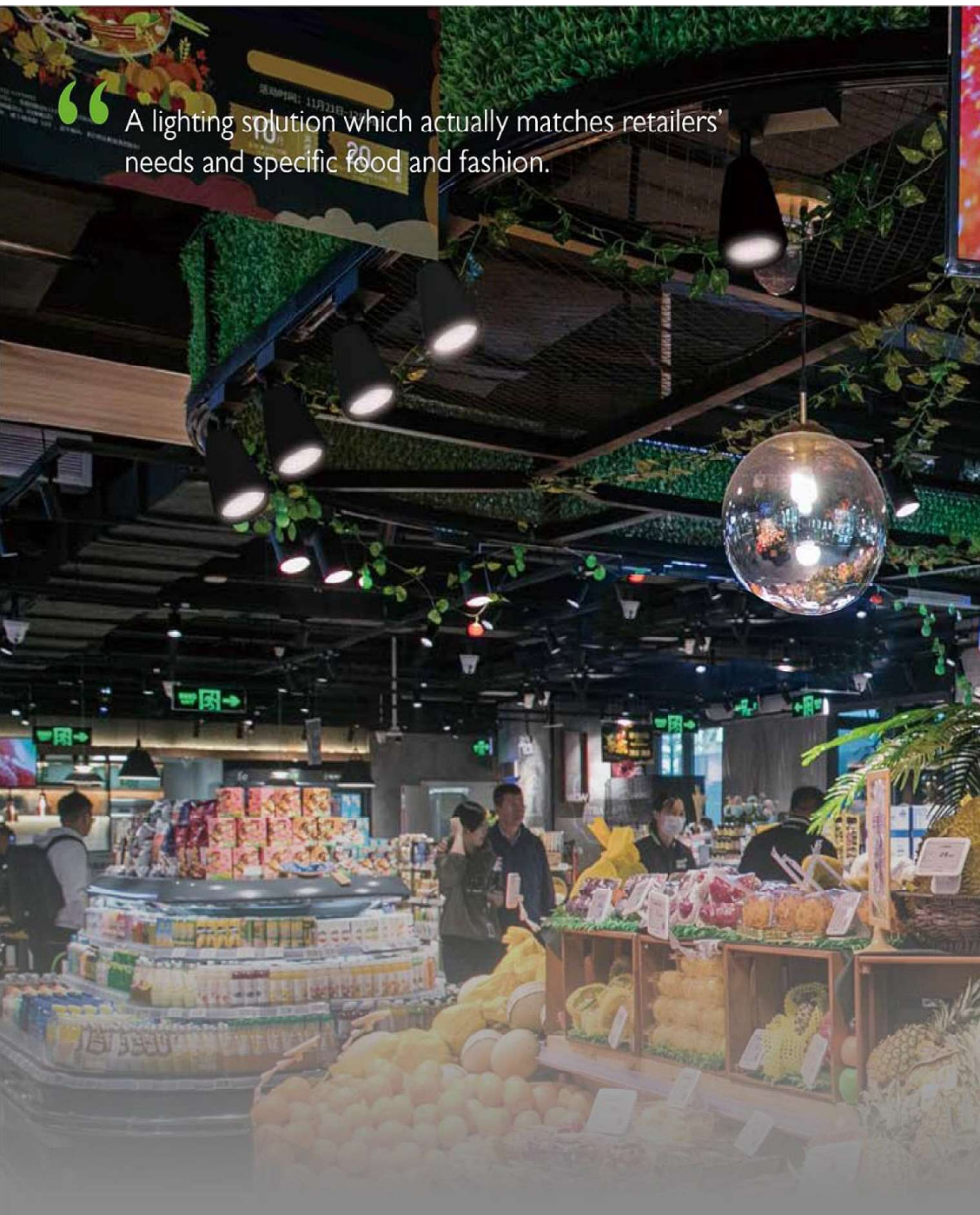


Median useful life L80B50	30,000 hours
Median useful life L90B50	20,000 hours
Average ambient temperature	+25°C
Operating temperature range	-25°C ~ +45°C
Driver	Built-in
Mains voltage	220-240V AC/ 50-60Hz
Dimming	Dali dimming on request 0-10V dimming
Material	Housing Aluminum Reflector: PC
Finish	Colza Yellow Telegrey Living Coral Yellow Green
Beam angle	38°
Optical element	Diffuser(DF)
Installation	Suspension set supplied with the product, cable length 1.5m (not replaceable on site but longer length possible on request before order)

PF300

Fresh Food, Pendant

Type	PF300
Light source	LED COB
Power	MAX. 35W
Correlated Color Temperature	1800K (Fresh Food Rose, ROSE) 3000K Extreme Sensus (Fresh Food Meat, FMT) 3000K Extreme Sensus (Fresh Food Fruit, FFT) 5000K (Fresh Food Vegetables, FV) 6500K (Fresh Food Frost White, FFW) 2400K (Fresh Food Gold+, Gold+)
Color Rendering Index	>70 (Fresh Food Rose, Fresh Food Meat) >80(Fresh Food Frost White) >90 (Fresh Food Meat, Fruit, Vegetables, Gold+)
Standard deviation color matching (SDCM)	3 (with a tolerance of +/- 0.005 on color point measurement)
Median useful life L70B50	50,000 hours



“ A lighting solution which actually matches retailers’ needs and specific food and fashion.



TF100
Simple Track Spotlight

Retail stores, especially food and fashion

Retailers need to retain high-quality lighting to catch the customer's eye, as well as flexibility in architectural integration.

Features

- High color rendering
- Special spectrums tailored to the specific requirements of fresh food counters
- 0-10V/ Triac/ DALI dimming to adjust the light exactly to the desired level

TF100

Retail stores, especially food and fashion

Type	TF100
Light source	LED COB
Power	35W
Correlated Color Temperature	1800K (Fresh Food Rose, ROSE)
	3000K Extreme Sensus (Fresh Food Meat, FMT)
	3000K Extreme Sensus (Fresh Food Fruit, FFT)
	5000K (Fresh Food Vegetables, FV)
	6500K (Fresh Food Frost White, FFW)
	2400K (Fresh Food Gold+, Gold+)
	3500K (Man Fashion)
	3500K Sensus(Woman Fashion)
Color Rendering Index	>70 (Fresh Food Rose, Fresh Food Meat)
	>80(Fresh Food Frost White)
	>90 (Fresh Food Meat, Fruit, Vegetables, Gold+, Man & Women Fashion)
Standard deviation color matching (SDCM)	3 (with a tolerance of +/- 0.005 on color point measurement)

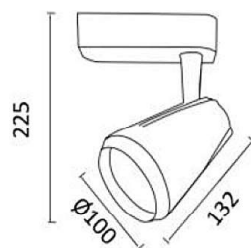


A choice of LED flavors

The experience for shoppers is truly different, as they are amazed to find there's no visible light source above their heads.



270° rotatable and 90° tiltable



Lumen maintenance at median useful life 50000h	L80
Control gear failure rate at median useful life 50000h	5%
Average ambient temperature	+25°C
Operating temperature range	-25°C ~ +45°C
Driver	Built-in
Mains voltage	220-240V AC/ 50-60Hz
Dimming	Dali dimming on request
	Triac dimming on request
	0-10V dimming on request
Material	Housing Die-casting Aluminum
	Reflector: PC
Finish	Black
	White
Optic	24° / 36°
Connection	3C track adapter
Installation	On 3-circuit track



“ The customer journey needs to be a seamless process though, across many platforms, channels and touch points.



TF080
Promoting Track Spotlight

PROMOTION AREA

Light is sales-promoting.
Simple track spotlights for
flexible retail lighting.

TF is the clear choice for fashion retailers to make colors appear rich and intense while keeping whites bright. The track-mounted is also available in a choice of black or white finish. And the combination of efficient LED technology and an innovative heatsink ensures that this is a reliable, lasting solution.

Features

- At a glance— Outstanding colour rendering (CRI > 90) @ 3000K/4000K
- Clean, robust design
- Efficient operation with up to approx. 104 lm/W
- 0-10V/ Triac/ DALI dimming to adjust the light exactly to the desired level
- Service life to 50,000 h (L80/B50)

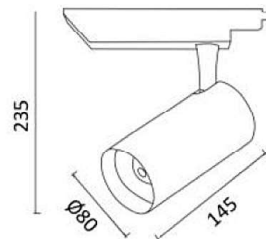
TF080

Retail stores, especially promotion

Type	TF080
Light source	LED COB
Power	35W
Luminous flux	3200lm
Correlated Color Temperature	3000/4000/5000K
Color Rendering Index	>80
	>90
Beam Angle	15°
	24°
	38°
Standard deviation color matching (SDCM)	3 (with a tolerance of +/- 0.005 on color point measurement)



270° rotatable and 90° titable



Promoting

before, during and after a purchase

We discuss the analogy of an editorial team on a magazine, pulling together to create the overall experience

Luman maintenance at median useful life 50000h	L80
Control gear failure rate at meian useful life 50000h	5%
Average ambient temperature	+25°C
Operating temperature range	-25°C ~ +45°C
Driver	Built-in
Mains voltage	220-240V AC/ 50-60Hz
Dimming	Dali dimming on request
	0-10V dimming on request
	Triac dimming on request
Material	Housing Die-casting Aluminum
	Reflector: PC
Finish	Black
	White
Connection	3-circuit track adapter
Installation	On 3-circuit track



“ Making the simple complicated is commonplace; making the complicated simple, awesomely simple, that’s creativity.



TF500

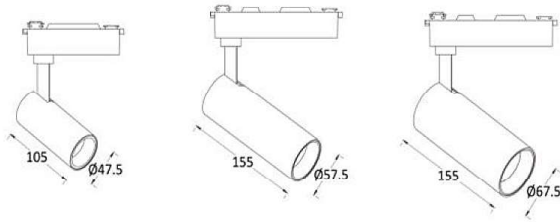
Simple track spotlights for flexible retail lighting

GENERAL LIGHTING

General lighting is the main source of illumination in a store, providing uniform lighting that allows for customer circulation throughout the space, and for the staff to perform daily tasks. Diffused general lighting ensures a sense of well-being that makes customers feel comfortable and more likely to stay longer in the store.

TASK AREA LIGHTING

Focused, higher level of illumination is required for specific areas such as counters and cash desks. Completing the sale is the most important retail task, so it is essential to enable the quick and accurate flow of payments, measurements, and the reading of tags. For this, shadows and glare need to be eliminated and we need to calculate the ideal illumination level, taking contrast levels into account between the task area and the general lighting.



TF500

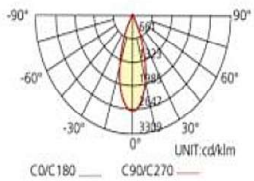
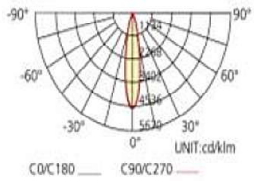
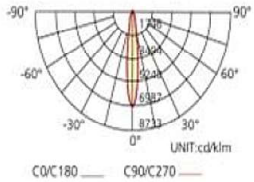
Retail stores, especially promotion

Supermarket style

LEDs and associated control technology are helping to transform retail across the world. The lighting enhances products by delivering exactly the right color accent.



270° rotatable and 90° tiltable



Type	TF080	Lumen maintenance at median useful life 50000h	L80LED
Light source	LED COB	Control gear failure rate at median useful life 50000h	5%
Power	15W/25W/35W	Average ambient temperature	+25°C
Luminous flux	1350lm/2250lm/3200lm	Operating temperature range	-25°C ~ +45°C
Correlated Color Temperature	3000/4000/5000K	Driver	Built-in
Color Rendering Index	>80	Mains voltage	220-240V AC/ 50-60Hz
	>90	Dimming	Dali dimming on request 0-10V dimming on request Triac dimming on request
Beam Angle	15°	Material	Housing Die-casting Aluminum Lens: PC
	24°	Finish	Black White
	36°	Connection	3-circuit adapter
Standard deviation color matching (SDCM)	3 (with a tolerance of +/- 0.005 on color point measurement)	Installation	On 3-circuit track

“ Welcome to Modern Light in Classroom.



MODERN LIGHT IN CLASSROOM LIGHTING SOLUTION

At XCELL LIGHT ART™ having the wellbeing of the young generation have created a solution in mind. From now on schools will benefit from the most comfortable, energy conscious lighting of the latest technology everyday.

By old classroom lighting equipped with inefficient T8 luminaires, our children are daily exposed to visual discomfort, and, due to the unbalanced distribution of brightness they are even in danger of long-term vision damage. On the other hand, inefficient lighting technology accounts for 50 to 70% of the electricity bill in school buildings.

Improve the learning environment with modern school lighting that was designed specifically for classrooms, fully complies with standards and at the same time minimizes power consumption and CO emission. The long lifetime 2luminaires guarantee low maintenance costs and the light management system provides automatic control. Choose lighting with extraordinary efficacy, great light quality, and both direct and indirect light distribution for ultimate comfort.

Welcome to **Modern Light in Classroom** by XCELL LIGHT ART™

FUNCTIONALITY

Create an inspiring learning space.

Learning is easier in an inspiring environment with the right light.

The illuminance of surrounding areas and the ceiling ensures the adequate and uniform luminance distribution in the field of vision both for the teacher and the pupils.



C

Modern Pendant for Blackboard B1236



Suspended LED Luminaires for Classroom P1230



Classic LED Luminaires for Classroom P6060





“ Appropriate lighting of the space enables correct perception of the visual information, recognising the objects and faces.



C B1236

Modern Pendant for Blackboard

ASYMMETRIC BLACKBOARD LIGHTING

The blackboard area utilizes asymmetric LED lighting for good vertical illumination. To provide maximum uniformity, luminaires specifically developed for lighting vertical surfaces are implemented along the board with an optimal light level of 610 lux. Push button enables the comfortable control of the board lighting.

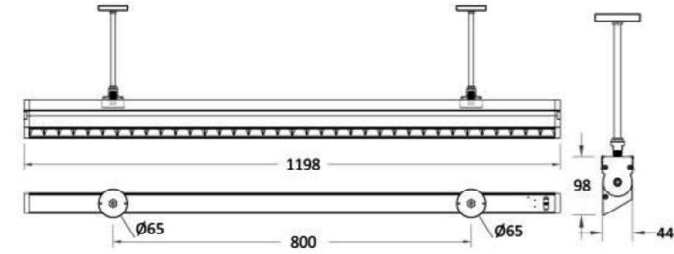
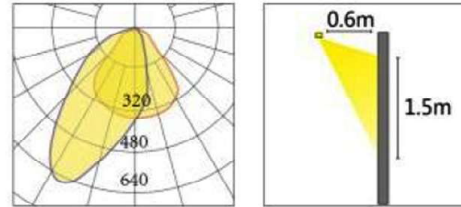
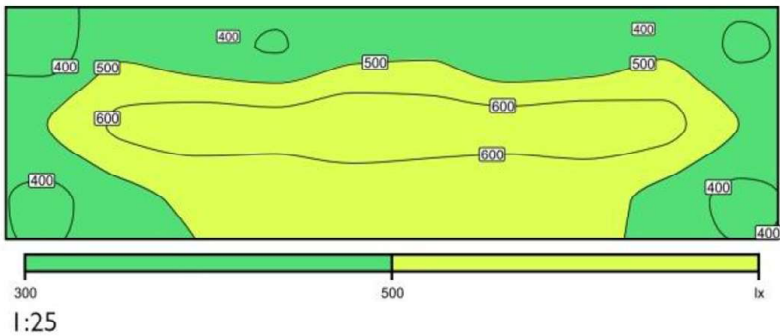
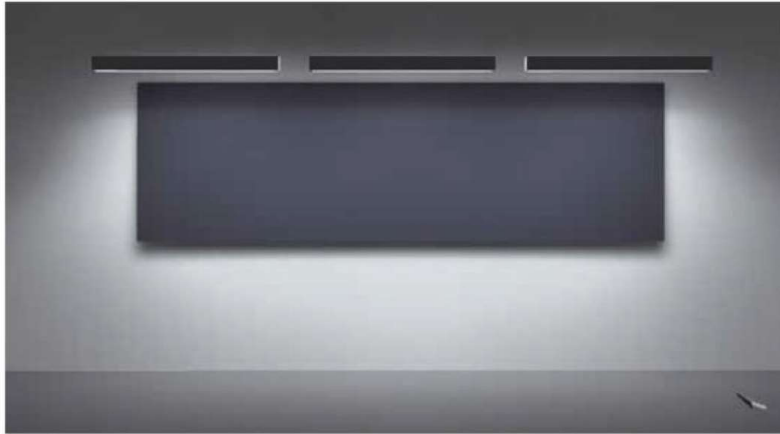
ERGONOMICS

Up to 80% of all information is perceived through our vision therefore the visual perception plays a decisive role during the educational process. Correct lighting enables the student to perceive the objects and shapes correctly, to acquire information about the space and makes the orientation inside the space easier. Correct lighting in the classroom improves the capability of the pupils to concentrate and makes the educational process more cheerful.

C

B1236 55°*90° 22° Asymmetric

A fully automatic control system is implemented that ensures the 600lux constant illumination level.



55°*90° Asymmetric narrow reflector tilt 22°

- Very narrow, asym. light tilt 22° distribution for illuminating two vertical surface (blackboard/wall/shelf) with a homogeneous distribution of brightness without a visible lamp
- UGR < 16, anti-glare PC reflector and PMMA lens wall washer with 22° asymmetric
- 88% Optic efficiency

Power: 36W

Illuminance (Ev): ≥ 610lx

Overall uniformity luminance (Uo): ≥ 0.9 (0.8)

Unified Glare Rating (UGR): ≤ 16 (≤ 19)

Flicker Free: ≤ 1%

Color Temperature (Tc): 5000K

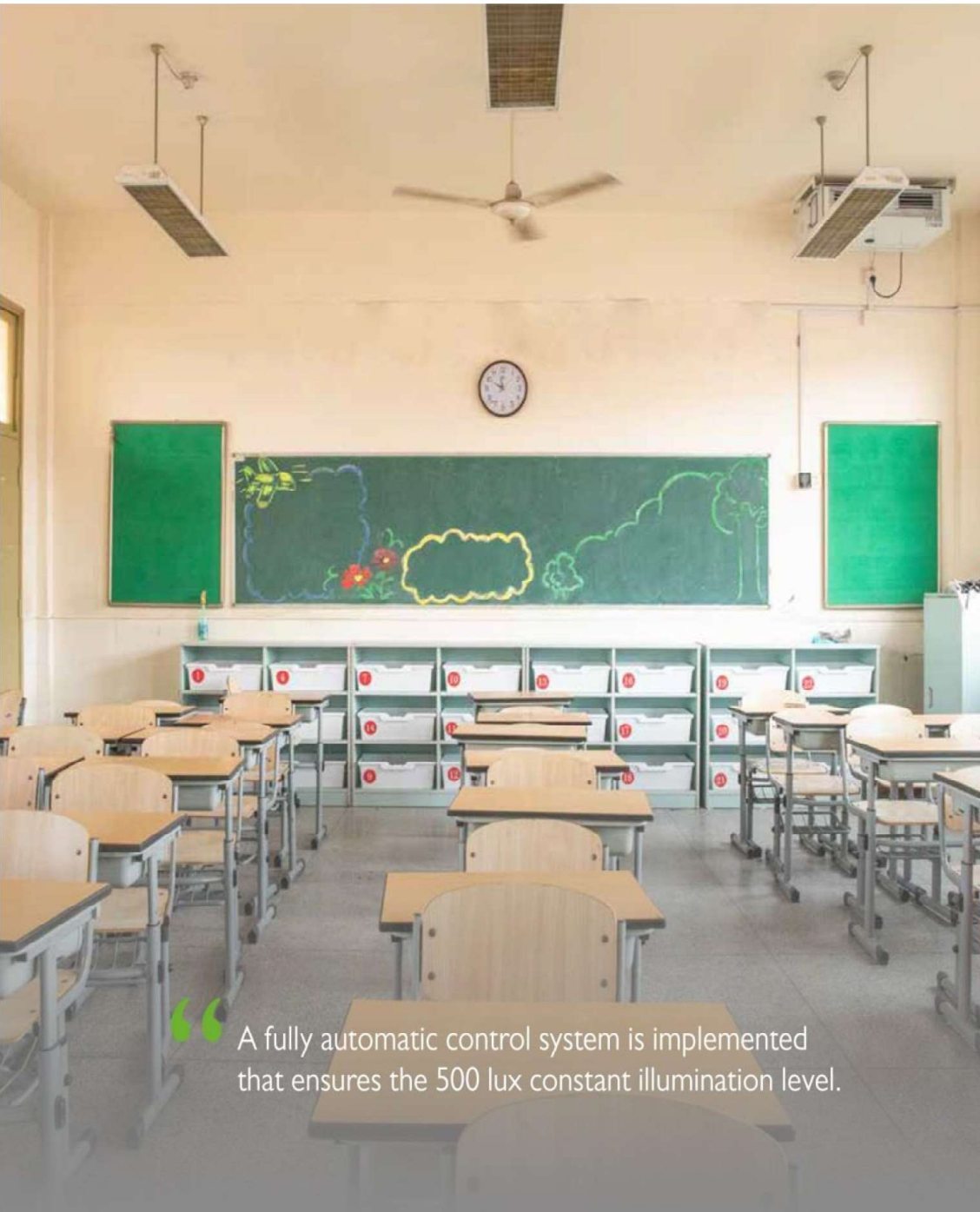
Color rendering index, (Ra): ≥ 90

Photobiological safety: Risk Group 0 (RG0)
≤ 0.6m

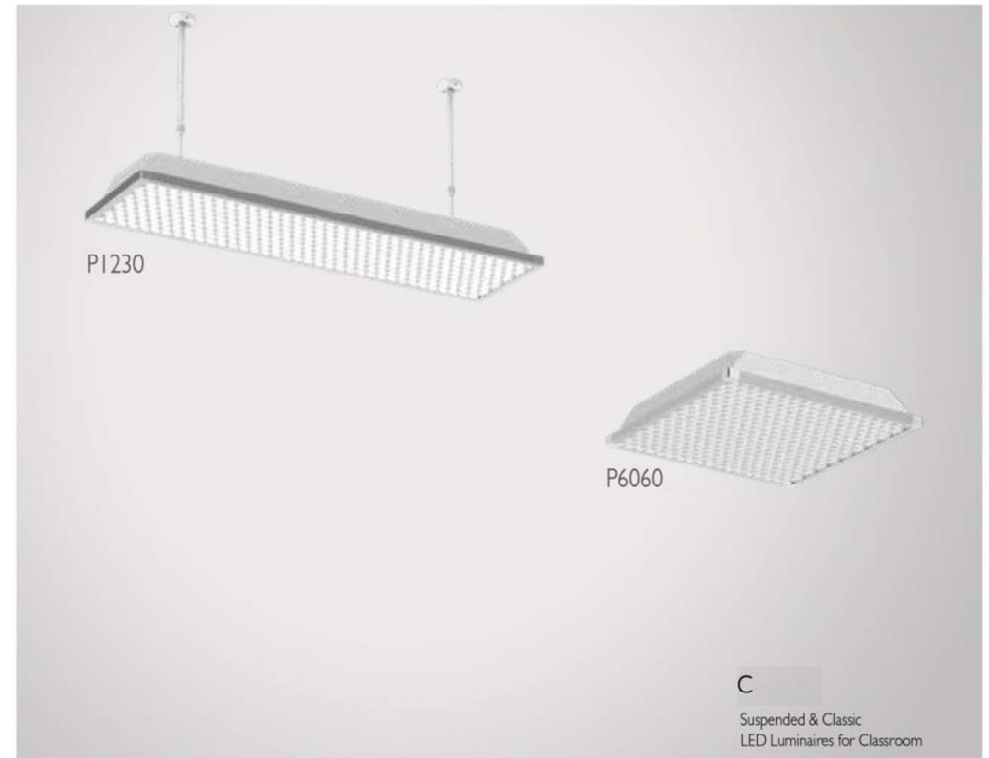
Applications:

Classroom blackboard, libraies, galleries





“ A fully automatic control system is implemented that ensures the 500 lux constant illumination level.



MOTIVATION AND PRODUCTIVITY

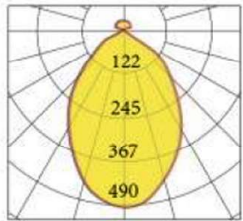
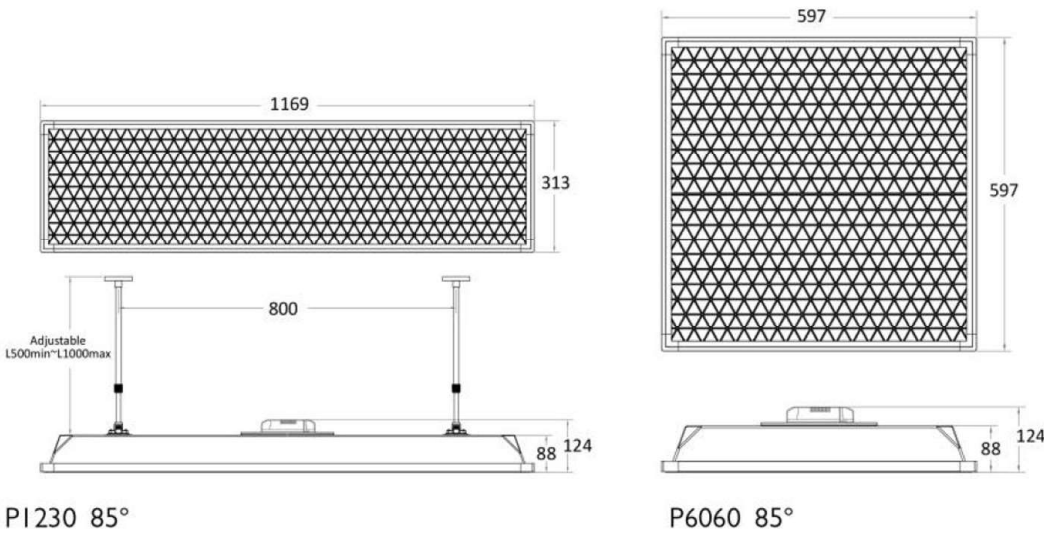
- Suspended LED luminaires provide great visual comfort for task areas.
- With both direct and indirect light distribution the solution enlarges and brightens the classroom space, thus eliminates the so-called cave effect.
- The result is an improved learning environment that has a positive effect on motivation and performance.

ILLUMINATION LEVEL

The light substantially affects the feeling of well-being of the pupils and teachers; it influences their psyche, performance efficiency, the ability to concentrate and regeneration.

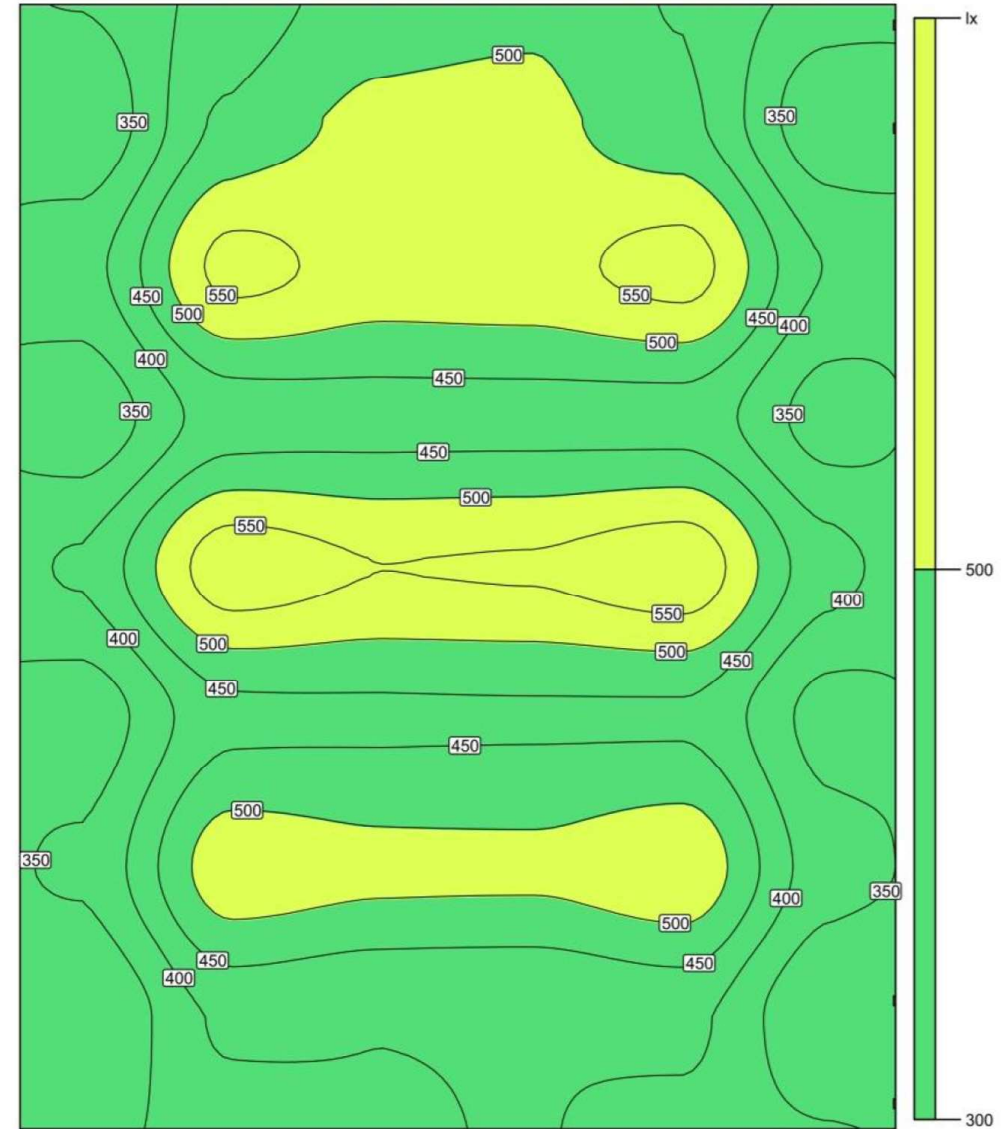
The correct illumination of the space enables correct perception of the visual information, recognising the object shapes and faces.

C



- Power: 36W
- Illuminance (Ev) : 500lx (≥300lx)
- Overall uniformity luminance (Uo) : 0.8(≥0.7)
- Unified Glare Rating (UGR) : ≤15 (≤19)
- Flicker Free : ≤1%
- Color Temperature (Tc) : 5000K
- Color rendering index, (Ra) : ≥90
- Photobiological safety: Risk Group 0 (RG0)

A fully automatic control system is implemented that ensures the 500lux constant illumination level.





Aries Imex Trading Inc.



ariesimexmarketing2022



09219102697



www.ariesimextrading.com



sales@ariesimextrading.com



09953884201 • 09167043556 • 82871988



Room 306 Zone 027, Madrigal Building,
286 Escolta St, Binondo, Manila,
1006 Metro Manila

