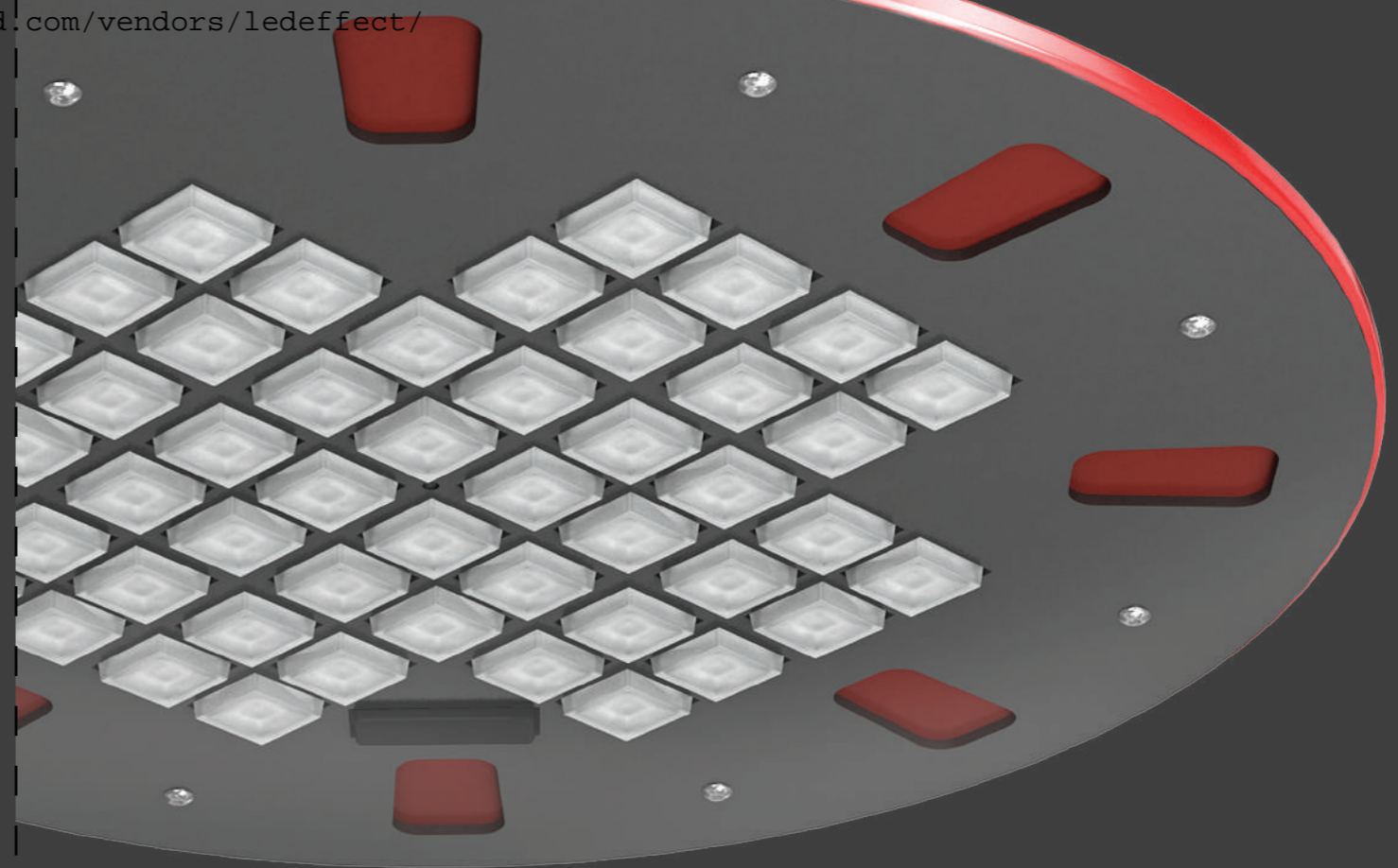




www.ledeffect.com



LED LIGHTING

THE PRODUCT BOOK

COMPANY PROFILE



LED-EFFECT LTD. IS A MANUFACTURER OF HIGH-QUALITY LED LUMINAIRES

LED-Effect Ltd. manufactures a wide range of LED luminaires for various applications:

- Roads of various classes;
- Factories and warehouses;
- Office and administrative buildings;
- Stores and supermarkets;
- Local area;
- Hospitals and schools;
- Housing facilities.

LED-Effect Ltd. stands out due to a consistently high quality of its products which is based on state-of-the-art equipment, best components (NICHIA, OSRAM, CREE are used in all products) and lean production method.

Company LED-Effect provides a full production cycle, from the development of power supplies and manufacturing of fixtures buildings to the test in the lighting laboratory.

We pay a lot of attention to researches of artificial lighting affecting human health.

LED-Effect Ltd. is a member of the Association of Manufacturers of LEDs and systems based on them (APSS) and it is an active player of the LED lighting industry.

Apart from LED luminaires, the company offers to its customers automated lighting control systems (up to 90% of energy savings) and assists them in execution of energy-servicing contracts (energy audit, fund-raising for energy-saving activities).





CONTENTS



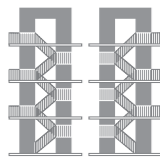
INTERIOR LIGHTING

OFFICE P. 46-48	OFFICE COMFORT P. 56	OFFICE IP54 P. 50-52	OFFICE IP54 for lathed ceiling P. 54	ARROW P. 36
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INDUSTRIAL LIGHTING

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UTILITY LIGHTING

TITAN P. 26	KEDR STREET P. 8	OPTIMA STREET P. 16
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STREET LIGHTING

KEDR STREET P. 8	OPTIMA STREET P. 16	OPTIMA ACCENT P. 18	OPTIMA PENDANT P. 20
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TRADE FLOOR LIGHTING

RETAIL P. 28	RETAIL Light P. 30	RETAIL Optic P. 32	RETAIL P. 34	OFFICE P. 46-48
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AUXILIARIES P. 67

USEFUL INFORMATION P. 76

PRODUCT CODE EXPLANATION

LE-URP-02-050-**0041**-40N

Color temperature

C – 5000K cool white
N – 4000K neutral white (daylight)
W – 3000K warm white

Ingress protection rating, IP

Unique code to be used for order

(it's in bold type in the product code; it's enough to provide this unique code when ordering a luminaire)

Power, W

Series number

03 – Office
04 – Grilyato
11 – Height
14 – Retail
15 – Titan
17 – Grilyato Domino
22 – Kedr
23 – Arrow
26 – Cord
28 – Optima

Application

P – public buildings
O – outdoor
I – industrial buildings
M – medical institutions

Type of mounting

S – suspended (by cords)
C – bulkhead (ceilings)
W – bulkhead (walls)
R – recessed
B – brackets or supports (mounted on ground poles, pillars)

Light source (U - Luminodiode)

Brand – LEDEFFECT

- Standard modification: housing Color – white, diffuser – textured, CCT – N.
- The company reserves the right to change the design of luminaires if it's aimed at improving their performance.

SYMBOLS



Light source – LEDs



Operating temperature range



Lighting control (dimming)



Light weight



CRI



Climatic modification



Light flicker – less than 1%, safe for eyes



Tamper-proof design



CE certified



No specific requirements for disposal



3 years warranty



Power factor



Grounding



IP protection against environmental exposure



Soft, comfortable light



Operating voltage range



Material of a diffuser – opal PMMA



BPSU – Backup Power Supply Unit (optional)

KEDR STREET (UCO)



KEDR series of innovative outdoor bracket-mounted LED luminaires. Efficient substitute for outdoor bracket-mounted luminaires with 125-400 W mercury-vapour lamps and 250 W sodium-vapour lamps.

GENERAL INFORMATION

KEDR (UCO) are the most advanced bracket-mounted LED luminaires. KEDR series luminaires are characterised with the slimest housings within the professional lighting class, the housing is only 7 mm thick. «FINFREE» innovative heat dissipation technology is implemented for the luminaires by installing inside them of the heaters of specifically developed composition of heat-conductive materials. There has been no similar technology so far. KEDR (UCO) luminaires are designed to be mounted onto standard street lighting poles of the diameter up to 48 mm; they can also be bracket-mounted onto walls subject to tilt angle adjustment. KEDR luminaires can be provided with additional optics to create the required illumination. Upon the request of a customer KEDR luminaires can be completed with LEDs of neutral white (4000 K) or warm white (3000 K) luminescence. The luminaire housings are coated with powder paint, structure elements are made of stainless steel; the luminaires are weather-resistant. The luminaires are thoughtfully designed to allow for PSU replacement without the luminaire itself being dismantled.

ADVANTAGES

- High efficacy, over 125 lm/W
- NICHIA, OSRAM, CREE LEDs
- Energy consumption in more than 3,5 less than that of luminaires with 125-400 W mercury-vapour lamps
- Slim housing, only 7 mm thick
- Innovative heat dissipation technology
- Additional optics for wide, deep, narrow lighting distribution
- PSU replacement without dismantling the luminaire
- Light weight of the light installation
- Instant start in low temperatures
- In basic modification lens is made of a durable transparent polycarbonate of 2 mm thickness
- The luminaire is provided for tilt angle discrete adjustment
- Luminaires can be bracket-mounted onto walls subject to tilt angle adjustment
- No specific requirements for maintenance
- No specific requirements for disposal
- IP 67
- Lifetime over 50 000 hours

APPLICATIONS

- Federal highways, highways of regional significance, vicinal roads
- Urban streets
- Interdistrict highways
- Pedestrian paths
- Parks and public gardens
- Parking lots
- Petrol stations
- Industrial sites
- Railway platforms
- Warehouse terminals

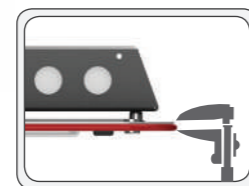


Luminaire with cosine lighting distribution

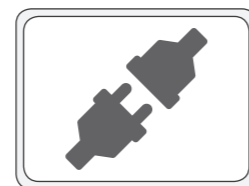


Luminaire with a wide lighting distribution

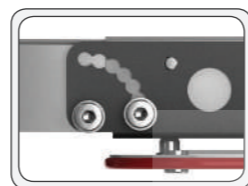
Super slim housing of only 7 mm thick



PSU replacement without dismantling the luminaire



Luminaire tilt angle adjustment



SPECIFICATIONS



Modification with cosine light distribution curve	50 W	75 W	95 W	140 W	180 W
Product code	LE-UCO-32-050-1060 -67C	LE-UCO-32-075-1061 -67C	LE-UCO-32-095-1062 -67C	LE-UCO-32-140-1063 -67C	LE-UCO-32-180-1064 -67C
Luminous flux, lm	6500 lm	9500 lm	12200 lm	18200 lm	23600 lm
Color temperature, (C)	6500 lm	9500 lm	12200 lm	18200 lm	23600 lm
Power, (W)	50 W	75 W	95 W	143 W	180 W
Modification with a wide light distribution curve	75 W	100 W	150 W	200 W	
Product code	LE-UCO-32-075-1066 -67C	LE-UCO-32-100-1059 -67C	LE-UCO-32-150-1067 -67C	LE-UCO-32-200-1047 -67C	
Luminous flux, lm	9100 lm	12150 lm	18800 lm	23500 lm	
Color temperature, (C)	9100 lm	12150 lm	18800 lm	23500 lm	
Power, (W)	75 W	100 W	150 W	200 W	
General information					
Number of LEDs without optics, pcs	77 pcs	119 pcs	154 pcs	224 pcs	294 pcs
Number of LEDs with optics, pcs	0 pcs	36 pcs	48 pcs	72 pcs	96 pcs
Dimensions of a luminaire, (LxWxH) mm	400x235x86 mm	476x234x86 mm	476x260x86 mm	580x260x86 mm	610x345x86 mm
Dimensions of a package, (LxWxH) mm	490x300x100 mm	490x300x100 mm	490x300x100 mm	615x300x100 mm	635x420x100 mm
Weight, kg	2,8 kg	3,3 kg	3,3 kg	4,3 kg	5 kg
Light distribution classification	P (direct light)				
Mounting holes, mm	48 mm				
Voltage, V/ Frequency, Hz	175-264V/50Hz				
CRI	>75				
Percent flicker, %	1%				
Power factor	0,98				
Electric safety classification	I				
IP rating	67				
Climatic modification	NF 1				
Temperature range, °C	-60 ÷ +50°C				
Lifetime, hours	50 000 hours				
Warranty period, years	3 years				

Standard modification: housing colour – dark grey, cosine lighting distribution, clear diffuser, colour temperature – C.



OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE (120°)	WIDE LIGHT DISTRIBUTION CURVE	OPTIONS
				For information on auxiliaries for KEDR UCO luminaires check out p. 67

KEDR WALL (UWO)



KEDR series of innovative industrial wall-mounted luminaires. Efficient substitute for luminaires with 125-400 W mercury-vapour lamps and 250 W high-pressure sodium arc lamps.

GENERAL INFORMATION

KEDR (UWO) are the most advanced industrial wall-mounted luminaires. KEDR series luminaires are characterised with the slimest housings within the professional lighting class, the housing is only 7 mm thick. «FINFREE» innovative heat dissipation technology is implemented for the luminaires by installing inside them of the heaters of specifically developed composition of heat-conductive materials. There has been no similar technology so far. KEDR (UWO) luminaires are designed to be bracket-mounted onto walls subject to tilt angle adjustment. KEDR luminaires can be provided with additional optics to create the required illumination. Upon the request of a customer KEDR luminaires can be completed with LEDs of neutral white (4000 K) or warm white (3000 K) luminescence. The luminaires housings are coated with powder paint, structure elements are made of stainless steel; the luminaires are weather-resistant. The luminaires are thoughtfully designed to allow for PSU replacement without the luminaire itself being dismantled.

ADVANTAGES

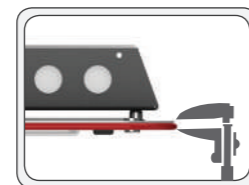
- High efficacy, over 125 lm/W;
- NICHIA, OSRAM, CREE LEDs
- Energy consumption in more than 3,5 less than that of luminaires with 125-400 W mercury-vapour lamps
- Slim housing, only 7 mm thick
- Innovative heat dissipation technology
- Additional optics for wide, deep, narrow lighting distribution
- PSU replacement without dismantling the luminaire
- Light weight of the light installation
- Instant start in low temperatures
- In basic modification lens is made of a durable transparent polycarbonate of 2 mm thickness
- The luminaire is provided for tilt angle discrete adjustment
- No specific requirements for maintenance
- No specific requirements for disposal
- IP 67
- Lifetime over 50 000 hours

APPLICATIONS

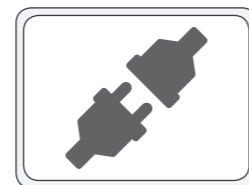
- Industrial sites
- Railway platforms
- Warehouse terminals
- Sport venues
- Adjoining sites
- High bays, over 10 m



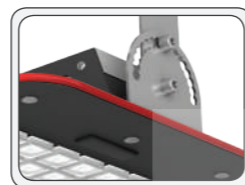
Super slim housing of only 7 mm thick



PSU replacement without dismantling the luminaire



Luminaire tilt angle adjustment



SPECIFICATIONS



Modification with cosine light distribution curve	50 W	75 W	95 W	140 W	180 W
Product code	LE-UWO-32-050-1069-67C	LE-UWO-32-075-1070-67C	LE-UWO-32-095-1071-67C	LE-UWO-32-140-1072-67C	LE-UWO-32-180-1073-67C
Luminous flux, lm	6500 lm	9500 lm	12200 lm	18200 lm	23600 lm
Color temperature, (C)					
Power, (W)	50 W	75 W	95 W	143 W	180 W
Modification with a deep light distribution curve	75 W	100 W	150 W	200 W	
Product code	LE-UWO-32-075-1075-67C	LE-UWO-32-100-1076-67C	LE-UWO-32-150-1077-67C	LE-UWO-32-200-1078-67C	
Luminous flux, lm	9100 lm	12150 lm	18800 lm	23500 lm	
Color temperature, (C)					
Power, (W)	75 W	100 W	150 W	200 W	
General information					
Number of LEDs without optics, pcs	77 pcs	119 pcs	154 pcs	224 pcs	294 pcs
Number of LEDs with optics, pcs	0 pcs	36 pcs	48 pcs	72 pcs	96 pcs
Dimensions of a luminaire, (LxWxH) mm	286x235x150 mm	370x260x174 mm	370x260x174 mm	512x285x181 mm	530x405x181 mm
Dimensions of a package, (LxWxH) mm	490x300x100 mm	490x300x100 mm	490x300x100 mm	615x300x100 mm	635x420x100 mm
Weight, kg	2,8 kg	3,3 kg	3,3 kg	4,3 kg	5 kg
Light distribution classification	P (direct light)				
Voltage, V/ Frequency, Hz	175-264V/50Hz				
CRI	>75				
Percent flicker, %	1%				
Power factor	0,98				
Electric safety classification	I				
IP rating	67				
Climatic modification	NF 1				
Temperature range, °C	-60 ÷ +50°C				
Lifetime, hours	50 000 hours				
Warranty period, years	3 years				

Standard modification: housing colour – dark grey, cosine lighting distribution, clear diffuser, colour temperature – C.



OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE (120°)	51-57° DEEP DISTRIBUTION CURVE	OPTIONS
				For information on auxiliaries for KEDR UWO luminaires check out p. 67

KEDR HIBAY (USI)



Efficient substitute for industrial suspended luminaires with 125-400 W mercury-vapour lamps and 250 W sodium-vapour lamps.

GENERAL INFORMATION

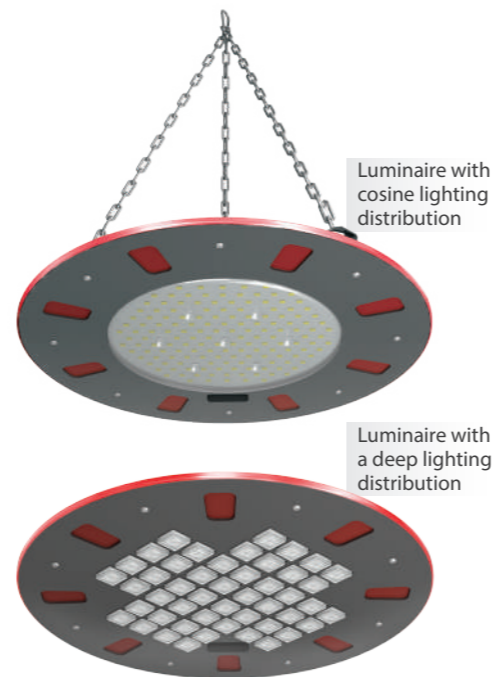
KEDR (USI) are the most advanced industrial suspended luminaires. KEDR series luminaires are characterised with the slimest housings within the professional lighting class, the housing is only 7 mm thick. Innovative heat dissipation technology is implemented for the luminaires by installing inside them of the heaters of «FINFREE» specifically developed composition of heat-conductive materials. There has been no similar technology so far. KEDR (USI) luminaires are designed to be suspended, to ensure safety for luminaires installation there are designed placeholders for safety ropes. KEDR luminaires can be provided with additional optics to create the required illumination. Upon the request of a customer KEDR luminaires can be completed with LEDs of neutral white (4000 K) or warm white (3000 K) luminescence. The luminaires housings are coated with powder paint, a customer can choose the housing colour basing on RAL scale, structure elements are made of stainless steel and are weather-resistant. The luminaires are thoughtfully designed to allow for PSU replacement without the luminaire itself being dismantled.

ADVANTAGES

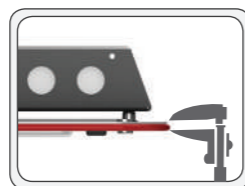
- High efficacy, over 125 lm/W;
- NICHIA, OSRAM, CREE LEDs
- Energy consumption in more than 3,5 less than that of luminaires with 125-400 W mercury-vapour lamps
- Slim housing, only 7 mm thick
- Innovative heat dissipation technology
- Additional optics for wide, deep, narrow lighting distribution
- PSU replacement without dismantling the luminaire
- Light weight of the light installation
- Instant start in low temperatures
- In basic modification lens is made of a durable transparent polycarbonate of 2 mm thickness
- The luminaire is provided for tilt angle discrete adjustment
- No specific requirements for maintenance
- No specific requirements for disposal
- IP 67
- Lifetime over 50 000 hours

APPLICATIONS

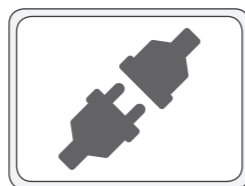
- Industrial sites
- Railway platforms
- Warehouse terminals
- Sport venues
- High bays, over 10 m



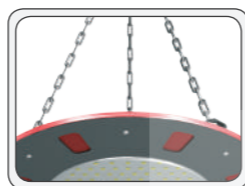
Super slim housing of only 7 mm thick



PSU replacement without dismantling the luminaire



Luminaire tilt angle adjustment



SPECIFICATIONS



Modification with cosine light distribution curve	95 W	140 W	180 W
Product code	LE-USI-32-100-1081 -67C	LE-USI-32-140-1082 -67C	LE-USI-32-180-1083 -67C
Luminous flux, lm	12550 lm	18140 lm	23300 lm
Color temperature, (C)			
Power, (W)	95 W	140 W	180 W
Modification with a deep light distribution curve	100 W	140 W	200 W
Product code	LE-USI-32-100-1086 -67C	LE-USI-32-140-1087 -67C	LE-USI-32-200-1088 -67C
Luminous flux, lm	13000 lm	17450 lm	26200 lm
Color temperature, (C)			
Power, (W)	100 W	140 W	200 W
General information			
Number of LEDs without optics, pcs	154 pcs	224 pcs	294 pcs
Number of LEDs with optics, pcs	48 pcs	64 pcs	96 pcs
Dimensions of a luminaire, (LxWxH) mm	355x65 mm	445x65 mm	530x65 mm
Dimensions of a package, (LxWxH) mm	366x366x80 mm	456x456x77 mm	540x540x80 mm
Weight, kg	3,7	4,1	4,9
Light distribution classification		P (direct light)	
Voltage, V/ Frequency, Hz		175-264V/50Hz	
CRI		>75	
Percent flicker, %		1%	
Power factor		0,98	
Electric safety classification		I	
IP rating		67	
Climatic modification		NF 1	
Temperature range, °C		-60 ÷ +50°C	
Lifetime, hours		50 000 hours	
Warranty period, years		3 years	

Standard modification: housing colour – dark grey, cosine lighting distribution, clear diffuser, colour temperature – C. Suspended elements: chain and carabiner supplied with the luminaire, the length of suspension elements 50 cm.



OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE (120°)	51-57° DEEP DISTRIBUTION CURVE	OPTIONS
				For information on auxiliaries for KEDR USI luminaires check out p. 67

KEDR (URI)

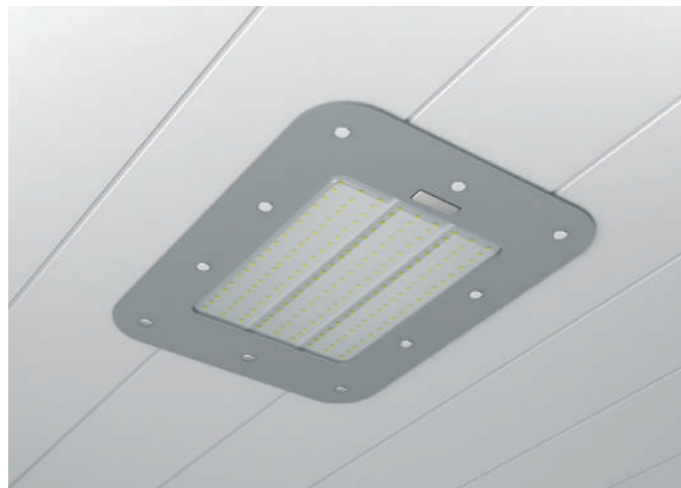
KEDR series of innovative industrial recessed LED luminaires. Efficient substitute for luminaires with 125-400W mercury-vapour lamps.

GENERAL INFORMATION

KEDR (URI) are the most advanced industrial recessed luminaires. KEDR series luminaires are characterised with the slimest housings within the professional lighting class, the housing is only 7 mm thick. «FINFREE» innovative heat dissipation technology is implemented for the luminaires by installing inside them of the heaters of specifically developed composition of heat-conductive materials. There has been no similar technology so far. KEDR (URI) luminaires are designed to be recessed into suspended ceilings. The luminaires housings are coated with powder paint, structure elements are made of stainless steel; the luminaires are weather-resistant. The luminaires are thoughtfully designed to allow for PSU replacement without the luminaire itself being dismantled. High IP rating – IP67.

ADVANTAGES

- High efficacy, over 125 lm/W
- NICHIA, OSRAM, CREE Leds
- Energy consumption is more than 3.5 less than that of luminaires with 125-400W mercury-vapour lamps
- PSU replacement without dismantling the luminaire
- Diffuser from robust transparent PC 2 mm thick
- Instant start in low temperatures
- Recessed mounting into canopies over fuelling areas
- Cosine light distribution curve
- No specific requirements for maintenance
- No specific requirements for disposal
- IP67
- Lifetime over 50,000 hours

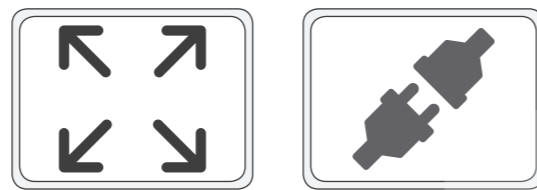


APPLICATIONS

- Petrol stations
- Industrial sites
- Warehouse terminals
- Production shops



External mounting frame KEDR lamp made the sizes provided by the customer Replaceable PSU



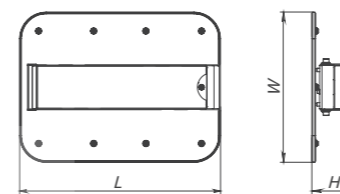
SPECIFICATIONS

Modification with cosine light distribution curve	75 W	95 W	140 W
Product code	LE-URI-32-075-1144 -67C	LE-URI-32-100-1145 -67C	LE-URI-32-150-1146 -67C
Luminous flux, lm	9100 lm	12200 lm	18150 lm
Color temperature, (C)			
Power, (W)	75 W	95 W	143 W
General information			
Dimensions of a luminaire, (LxWxH) mm	330x249,7x108 mm	330x249,7x108 mm	495x249,7x108 mm
Dimensions of a frame, (LxWxH) mm	396x318 mm	396x318 mm	561x318 mm
Dimensions of a package, (LxWxH) mm	430x330x133 mm	430x330x133 mm	632x330x133 mm
Weight, kg	7 kg	7 kg	10,2 kg
Light distribution classification	Cosine		
Light distribution curve	P (direct light)		
Voltage, V/ Frequency, Hz	175-264V/50Hz		
CRI	>75		
Percent flicker,%	<5%		
Power factor	0,9		
Electric safety classification	I		
IP rating	67		
Climatic modification	NF1		
Temperature range, °C	-60 ÷ +50°C		
Lifetime, hours	50 000 hours		
Warranty period, years	3 years		

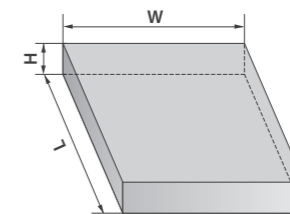
Standard modification: housing Color – grey, diffuser – clear, CCT – C.



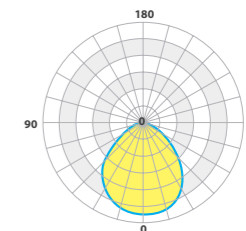
OVERALL DIMENSIONS, mm



PACKAGE DIMENSIONS, mm



COSINE LIGHT DISTRIBUTION CURVE (120°)



OPTIMA STREET (UCO)

Effective bracket-mounted LED luminaires for parks, public gardens and fronts of buildings.

GENERAL INFORMATION

OPTIMA (UCO) bracket-mounted LED luminaires to be installed onto lighting poles of the diameter not over 50 mm. They can also be bracket-mounted onto walls and subject to tilt angle adjustment. Housings are made of aluminium; structure elements are made of stainless steel; luminaires are weather-resistant. Thought-out heat dissipation guarantees continuous operation according to claimed specifications and without failures during the lifetime of a luminaire. Wide range of optics makes OPTIMA luminaires applicable for illuminating objects of various types such as parks, public gardens and fronts of buildings. High ingress protection rating – IP67.

ADVANTAGES

- High efficacy, over 110 lm/W
- Nichia LEDs (Japan)
- Wide range of optics by LEDIL
- Effective solution for frontal illumination of buildings and constructions
- Adopted optics for warehouse premises
- Instant start in low temperatures
- Easy mounting
- Luminaires mounted onto walls with adjustable tilting brackets
- No specific requirements for maintenance
- No specific requirements for disposal
- IP67
- Lifetime over 50,000 hours

APPLICATIONS

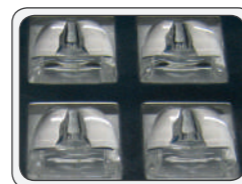
- Fronts of buildings
- Monuments
- Promotion constructions
- Public gardens and parks
- Sport venues
- Industrial facilities



Reliable hermetical connection of luminaire



Additional optics by LEDIL



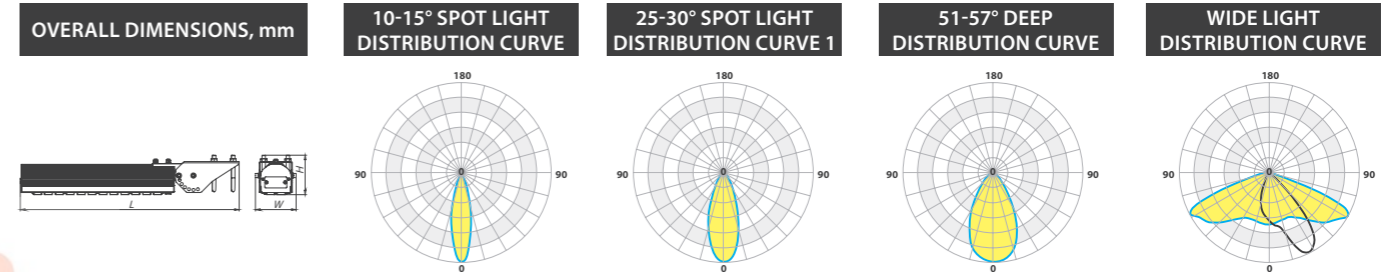
Wall and bracket mounting



SPECIFICATIONS

Modification with the wide light distribution curve		18 W	25 W	36 W
Product code		LE-UCO-28-020-0743-67C LE-UCO-28-020-0776-67W	LE-UCO-28-025-0780-67C LE-UCO-28-025-0784-67W	LE-UCO-28-036-0862-67C LE-UCO-28-036-0866-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with spot distribution curve (10-15°)				
Product code		LE-UCO-28-020-0774-67C LE-UCO-28-020-0778-67W	LE-UCO-28-025-0782-67C LE-UCO-28-025-0786-67W	LE-UCO-28-036-0864-67C LE-UCO-28-036-0868-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with spot distribution curve 1 (25-30°)				
Product code		LE-UCO-28-020-0773-67C LE-UCO-28-020-0777-67W	LE-UCO-28-025-0781-67C LE-UCO-28-025-0785-67W	LE-UCO-28-036-0863-67C LE-UCO-28-036-0867-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with deep distribution curve (51-57°)				
Product code		LE-UCO-28-020-0775-67C LE-UCO-28-020-0779-67W	LE-UCO-28-025-0783-67C LE-UCO-28-025-0787-67W	LE-UCO-28-036-0865-67C LE-UCO-28-036-0869-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
General information				
Number of LEDs with optics, pcs		24 pcs	24 pcs	32 pcs
Power, W		18 W	25 W	36 W
Dimensions of luminaire (UCO), (LxWxH) mm		515x96x95 mm		652x96x96 mm
Dimensions of package, (LxWxH) mm		525x100x100 mm		
Weight, kg		1,9 kg		2,7 kg
Light distribution classification		P (direct light)		
Voltage, V / Frequency, Hz		175-264V/50Hz		
CRI		80		
Percent flicker, %		1%		
Power factor		0,98		
Electric safety classification		I		
IP rating		67		
Climatic modification		NF 1		
Temperature range, C		-60 ÷ +50°C		
Lifetime, hours		50 000 hours		
Warranty period, years		3 years		

Standard modification: housing color – grey, CCT – C.





OPTIMA ACCENT (UWO)

Efficient linear LED luminaires for accent lightening of fronts of buildings, monuments, sports venues, logistics centers.

GENERAL INFORMATION

Luminaires OPTIMA (UWO) Series are bulkhead or to be suspended. The luminaires housing is made of aluminium, structural elements are of stainless steel. These luminaires are resistant to environmental effects. Thought-out heat dissipation guarantees continuous operation according to claimed specifications and without failures during the lifetime of a luminaire. Comprehensive line of optics makes OPTIMA luminaires applicable for lightening of various kinds of objects such as fronts of buildings, monuments, industrial facilities, sports venues. The luminaires are characterised with high IP67 rate of environmental resistance.

ADVANTAGES

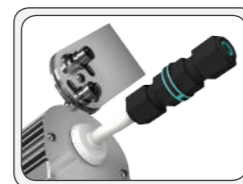
- High efficacy, over 110 lm/W
- Nichia LEDs (Japan)
- Wide range of optics by LEDIL for best approach to light fronts of buildings and facilities
- Adopted optics for warehouse premises
- Instant start at low temperature
- Easy mounting
- Possible mounting at the stage with adjustable tilting brackets
- No special requirements for maintenance
- No specific requirements for disposal
- IP rating 67
- Lifetime over 50,000 hours

APPLICATIONS

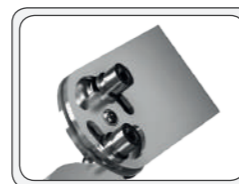
- Fronts of buildings
- Architectural monuments
- Promotion constructions
- Warehouse shelving storage premises
- Sports venues
- Industrial facilities



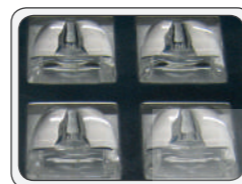
Reliable barrier connection of luminaire



Smooth angle adjustment of luminaire



Additional optics by LEDIL

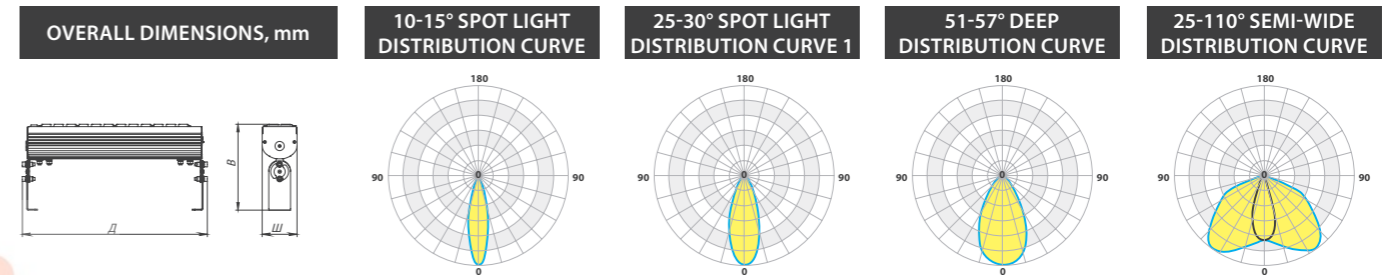


SPECIFICATIONS



Modification with spot distribution curve (10-15°)		18 W	25 W	36 W
Product code		LE-UWO-28-020-0704-67C LE-UWO-28-020-0700-67W	LE-UWO-28-025-0770-67C LE-UWO-28-025-0766-67W	LE-UWO-28-036-0712-67C LE-UWO-28-036-0708-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with spot distribution curve 1 (25-30°)				
Product code		LE-UWO-28-020-0703-67C LE-UWO-28-020-0699-67W	LE-UWO-28-025-0769-67C LE-UWO-28-025-0765-67W	LE-UWO-28-036-0711-67C LE-UWO-28-036-0707-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with deep distribution curve (51-57°)				
Product code		LE-UWO-28-020-0705-67C LE-UWO-28-020-0701-67W	LE-UWO-28-025-0771-67C LE-UWO-28-025-0767-67W	LE-UWO-28-036-0713-67C LE-UWO-28-036-0709-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with long distribution curve (25-110°)				
Product code		LE-UWO-28-020-0706-67C LE-UWO-28-020-0702-67W	LE-UWO-28-025-0811-67C LE-UWO-28-025-0810-67W	LE-UWO-28-036-0714-67C LE-UWO-28-036-0710-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
General information				
Number of LEDs with optics, pcs		24 pcs	24 pcs	32 pcs
Power, W		18 W	25 W	36 W
Dimensions of luminaire (UWO), (LxWxH) mm		358x72x180 mm		517x180x72 mm
Dimensions of package, (LxWxH) mm		525x100x100 mm		
Weight, kg		1,8 kg		2,6 kg
Light distribution classification		P (direct light)		
Voltage, V / Frequency, Hz		175-264V/50Hz		
CRI		80		
Percent flicker, %		1%		
Power factor		0,98		
Electric safety classification		I		
IP rating		67		
Climatic modification		NF 1		
Temperature range, C		-60 ÷ +50°C		
Lifetime, hours		50 000 hours		
Warranty period, years		3 years		

Standard modification: housing color – grey, CCT – C.





OPTIMA PENDANT (USO)

Suspended LED luminaires for streets and squares, pedestrians, public transport stops.

GENERAL INFORMATION

OPTIMA (USO) LED luminaires are to be suspended by cord of diameter from 4 to 10 mm. The luminaires housing is made of aluminium, structural elements are of stainless steel. These luminaires are resistant to environmental effects. Thought-out heat dissipation guarantees continuous operation according to claimed specifications and without failures during the lifetime of a luminaire. Wide range of LEDIL optics (Finland) makes OPTIMA (USO) luminaires be adopted for illumination of various objects such as squares and streets, public transport stops, pedestrians, tram ways. High ingress protection rating IP 67.

ADVANTAGES

- High efficacy, over 110 lm/W
- Nichia LEDs (Japan)
- Wide range of optics by LEDIL
- Effective solution for pedestrians, galleries, public transport stops
- Instant start in low temperatures
- Easy and reliable mounting by cord of diameter from 4 to 10 mm
- Luminaires mounted onto walls with adjustable tilting brackets
- No specific requirements for maintenance
- No specific requirements for disposal
- IP67
- Lifetime over 50,000 hours

APPLICATIONS

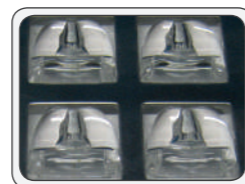
- Squares and streets
- Surface pedestrians
- Public transport stops
- Tram ways
- Industrial galleries



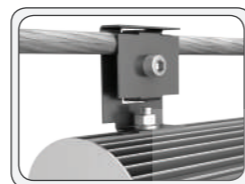
Reliable hermetical connection of luminaire



Additional optics by LEDIL



Reliable mounting by cord

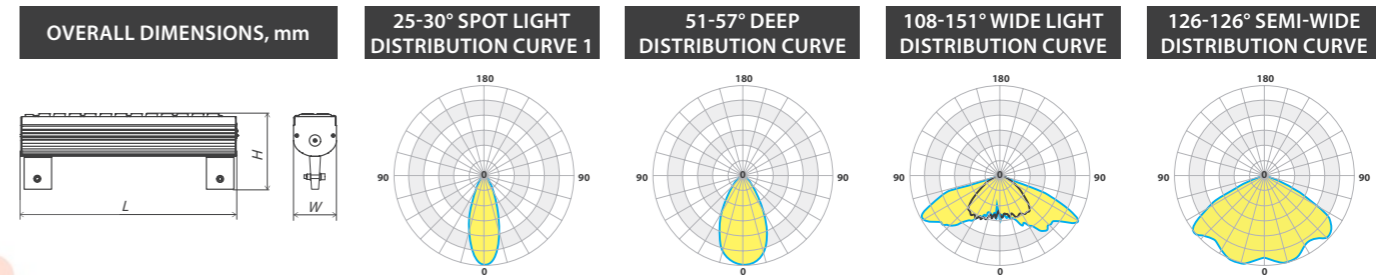


SPECIFICATIONS



Modification with a wide light distribution curve 108-151°		18 W	25 W	36 W
Product code		LE-USO-28-020-0904-67C LE-USO-28-020-0908-67W	LE-USO-28-025-0912-67C LE-USO-28-025-0916-67W	LE-USO-28-036-0920-67C LE-USO-28-036-0924-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with a spot light distribution curve 25-30°		18 W	25 W	36 W
Product code		LE-USO-28-020-0905-67C LE-USO-28-020-0909-67W	LE-USO-28-025-0913-67C LE-USO-28-025-0917-67W	LE-USO-28-036-0921-67C LE-USO-28-036-0925-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with a deep light modification curve 51-57°		18 W	25 W	36 W
Product code		LE-USO-28-020-0907-67C LE-USO-28-020-0911-67W	LE-USO-28-025-0915-67C LE-USO-28-025-0919-67W	LE-USO-28-036-0923-67C LE-USO-28-036-0927-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
Modification with a semi wide light distribution curve		18 W	25 W	36 W
Product code		LE-USO-28-020-0906-67C LE-USO-28-020-0910-67W	LE-USO-28-025-0914-67C LE-USO-28-025-0918-67W	LE-USO-28-036-0922-67C LE-USO-28-036-0926-67W
Luminous flux, (lm)	Color temperature, (C)	2100 lm	2600 lm	3700 lm
	Color temperature, (W)	2000 lm	2500 lm	3600 lm
General information				
Number of LEDs with optics, pcs		24 pcs	24 pcs	32 pcs
Power, W		18 W	25 W	36 W
Dimensions of luminaire (UCO), (LxWxH) mm		385x180x72 mm		517x180x72 mm
Dimensions of package, (LxWxH) mm		525x100x100 mm		
Weight, kg		1,8 kg		2,6 kg
Light distribution classification		P (direct light)		
Voltage, V / Frequency, Hz		175-264V/50Hz		
CRI		80		
Percent flicker, %		1%		
Power factor		0,98		
Electric safety classification		I		
IP rating		67		
Climatic modification		NF 1		
Temperature range, C		-60 ÷ +50°C		
Lifetime, hours		50 000 hours		
Warranty period, years		3 years		

Standard modification: housing color – grey, CCT – C.





HEIGHT

Efficient substitute for fluorescent bulkhead (ceiling-mounted) luminaires for public buildings, 2x36 W, 2x58 W; and also luminaires with mercury-vapour lamps, 125-250 W.

GENERAL INFORMATION

Housing of luminaires is made of aluminium. IP54 ingress protection. Thought-out heat dissipation guarantees continuous operation according to claimed specifications and without failures during the lifetime of a luminaire. Universal mounting joint with adjustable tilt angle allows for mounting onto a wall, pipe or onto a ceiling with suspension.

ADVANTAGES

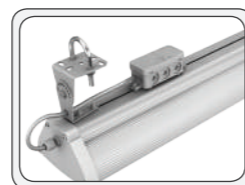
- Nichia LEDs (Japan)
- High CRI >80
- Minimum percent flicker, less than 1%
- IP54
- Textured or opal diffuser
- Easy mounting
- Tilt angle adjustment from 0 to 180°
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours
- WAGO connectors for a faster and more reliable connection to the mains

APPLICATIONS

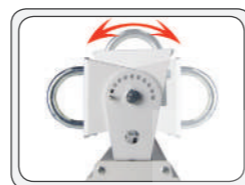
- Industrial sites
- Warehouse terminals
- Production shops
- Underground parking lots
- Service areas and back offices



IP54 ingress protection



User-friendly fittings for bulkhead or suspended mounting



SPECIFICATIONS



	16W	33W	50W	100W
Modification with an textural diffuser				
Product code	LE-UOP-11-020-0570-54C LE-UOP-11-020-0403-54N	LE-UOP-11-040-0572-54C LE-UOP-11-040-0405-54N	LE-UOP-11-060-0574-54C LE-UOP-11-060-0407-54N	LE-UOP-11-100-0576-54C LE-UOP-11-100-0409-54N
Luminous flux, lm/ Color temperature, (C) Color temperature, (N)	1500 lm	3000 lm	4500 lm	9000 lm
Modification with an opal diffuser				
Product code	LE-UOP-11-020-0571-54C LE-UOP-11-020-0404-54N	LE-UOP-11-040-0573-54C LE-UOP-11-040-0406-54N	LE-UOP-11-060-0575-54C LE-UOP-11-060-0408-54N	LE-UOP-11-100-0577-54C LE-UOP-11-100-0410-54N
Luminous flux, lm/ Color temperature, (C) Color temperature, (N)	1400 lm	2900 lm	4400 lm	8800 lm
General information				
Number of LEDs, pcs	32 pcs	64 pcs	66 pcs	132 pcs
Power, W	16 W	33 W	50 W	100 W
Dimensions of a luminaire, (LxWxH) mm	527x132x156 mm	1027x132x156 mm	527x132x156 mm	1027x132x156 mm
Dimensions of a package, (LxWxH) mm	545x135x91 mm	1045x135x91 mm	545x135x91 mm	1045x135x91 mm
Weight, kg	2,1 kg	3,5 kg	2,1 kg	3,7 kg
Voltage, V/ Frequency, Hz	175-264V/50Hz			
Light distribution classification	P (direct light)			
Light distribution curve	Cosine			
CRI	>80			
Percent flicker, %	1%			
Power factor	0,9			
Electric safety classification	I			
IP rating	54			
Climatic modification	NF 4 (moderate and cold climate; indoor, with heating and AC systems)			
Temperature range, °C	-10 ÷ +45°C			
Lifetime, hours	50 000 hours			
Warranty period, years	5 years			

Standard modification: housing Color – white, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE (120°)	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> - Backup Power Supply Unit (BPSU): LE 0274



Industrial linear LED luminaires. Efficient substitute for fluorescent suspended luminaires for industrial buildings 1x18 W, 1x36 W, 1x58 W, 2x36 W.

GENERAL INFORMATION

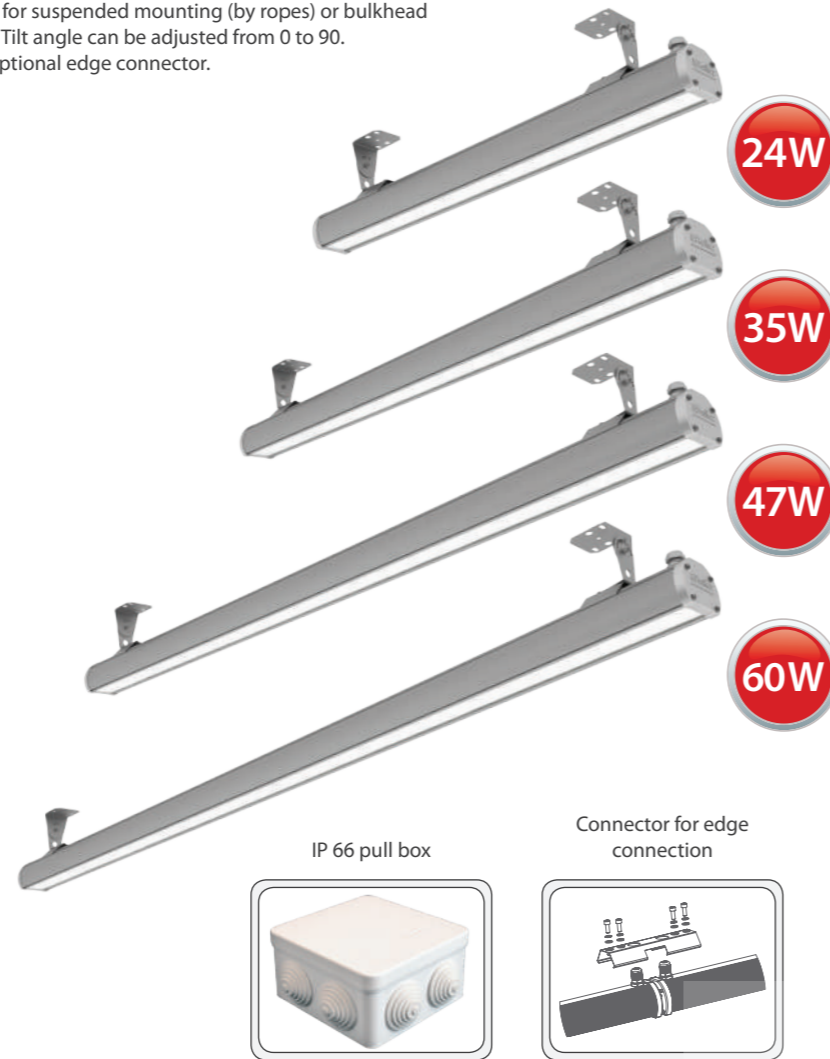
Linear LED luminaires are characterised with aluminium housings of IP 65 high ingress protection. The luminaires are equipped with shock-resistant diffusers of high quality and UV-resistant. Thought-out heat dissipation guarantees continuous operation according to claimed specifications and without failures during the lifetime of a luminaire. Thoughtfully designed assembly fitting allows for suspended mounting (by ropes) or bulkhead mounting (with the bracket subject to tilt angle adjustment). Tilt angle can be adjusted from 0 to 90. The luminaires can be assembled into one line by means of optional edge connector.

ADVANTAGES

- Nichia LEDs (Japan)
- Suspended or bulkhead mounting
- IP65
- Tilt angle adjustment
- Connecting luminaires into one uniform line
- Aluminium housing
- Opal or clear diffuser
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50 000 hours
- IP 66 pull box for faster and more reliable connection

APPLICATIONS

- Industrial facilities
- Shelf storage facilities
- Sport venues
- Underground parking lots
- Back offices
- Car wash stations
- Housing and public utilities
- Fronts of buildings



SPECIFICATIONS

Modification with transparent diffuser		24 W	35 W	47 W	60 W
Product code		LE-UOI-26-024-1005-65C LE-UOI-26-024-1007-65W	LE-UOI-26-035-1009-65C LE-UOI-26-035-1011-65W	LE-UOI-26-047-1013-65C LE-UOI-26-047-1015-65W	LE-UOI-26-060-1017-65C LE-UOI-26-060-1019-65W
Luminous flux, (lm)	Color temperature, (C)	2750 lm	4000 lm	5400 lm	6800 lm
	Color temperature, (W)	2650 lm	3900 lm	5300 lm	6700 lm
Modification with an opal diffuser		24 W	35 W	47 W	60 W
Product code		LE-UOI-26-024-1006-65C LE-UOI-26-024-1008-65W	LE-UOI-26-035-1010-65C LE-UOI-26-035-1012-65W	LE-UOI-26-047-1014-65C LE-UOI-26-047-1016-65W	LE-UOI-26-060-1018-65C LE-UOI-26-060-1020-65W
Luminous flux, (lm)	Color temperature, (C)	2500 lm	3700 lm	5100 lm	6500 lm
	Color temperature, (W)	2400 lm	3600 lm	5000 lm	6400 lm
General information					
Number of LEDs, pcs		30 pcs	45 pcs	60 pcs	75 pcs
Power, W		24 W	35 W	47 W	60 W
Dimensions of a luminaire, (LxWxH) mm		621x77x163 mm	921x77x163 mm	1221x77x163 mm	1521x77x163 mm
Dimensions of a package, (LxWxH) mm		640x90x180 mm	940x90x180 mm	1240x90x180 mm	1540x90x180 mm
Weight, kg		1,3 kg	2,3 kg	3,4 kg	4,4 kg
Voltage, V/ Frequency, Hz		175-264V/50Hz			
Light distribution classification		P (direct light)			
Light distribution curve		Cosine			
CRI		>80			
Percent flicker, %		1%			
Power factor		0,98			
Electric safety classification		I			
IP rating		65			
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)			
Temperature range, C		-40 ÷ +50°C			
Lifetime, hours		50 000 hours			
Warranty period, years		5 years			

Standard modification: housing colour – dark grey, clear diffuser, colour temperature – C, suspensions are not included into the set.

OVERALL DIMENSIONS, mm

PACKAGE DIMENSIONS, mm

COSINE LIGHT DISTRIBUTION CURVE (120°)

OPTIONS

On order:

- Connector for edge connection: LE1058



TITAN

Efficient substitute for fluorescent luminaires (suspended/ ceiling-mounted bulkhead) for industrial/ public buildings, 2x36 W, 2x58 W.

GENERAL INFORMATION

Luminaires of the TITAN series are bulkhead or to be suspended. TITAN series of LED luminaires is specially designed for industrial spaces and buildings. The diffuser is specifically designed to eliminate glare effect and create a comfortable illumination. The diffuser is made of hard UV-resistant PC. These luminaires are optimum and efficient substitutes for fluorescent luminaires (suspended/ ceiling-mounted bulkhead) for industrial/ public buildings, 2x36W, 2x58W.

ADVANTAGES

- Nichia LEDs (Japan)
- CRI >80
- Minimum percent flicker, less than 1%
- Instant start
- Noiseless operation
- Mounting: bulkhead and suspended
- No specific requirements for maintenance
- No specific requirements for disposal
- IP40 & IP65
- Optional: Backup Power Supply Unit
- Lifetime over 50,000 hours
- WAGO connectors for a faster and more reliable connection to the mains

APPLICATIONS

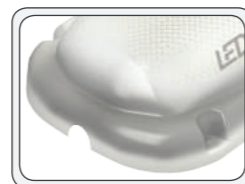
- Utilities
- Industrial sites
- Halls and corridors
- Warehouse terminals
- Parking lots
- Service areas and back offices



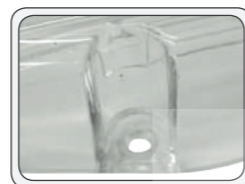
Special diffuser layout eliminates glare effect



The diffuser is made of hard PC



Easy and fast mounting

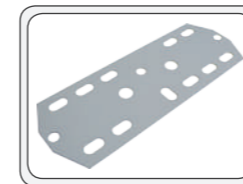


SPECIFICATIONS



Modification with protection IP40		33W	60W
Product code		LE-USI-15-033-0647-40C LE-USI-15-033-0648-40N	LE-USI-15-060-0668-40C LE-USI-15-060-0669-40N
Modification with protection IP65			
Product code		LE-USI-15-040-0535-65C LE-USI-15-040-0467-65N	LE-USI-15-060-0536-65C LE-USI-15-060-0468-65N
Luminous flux, lm	Color temperature, (C)	3300 lm	5000 lm
	Color temperature, (N)	3200 lm	4900 lm
General information			
Number of LEDs, pcs		64 pcs	96 pcs
Power, W		33 W	60 W
Dimensions of a luminaire, (LxWxH) mm		1000x160x65 mm	
Dimensions of a package, (LxWxH) mm		1025x180x90 mm	
Weight, kg		1,5 kg	
Voltage, V/ Frequency, Hz		175-260V/50 Hz	
Light distribution classification		P (direct light)	
Light distribution curve		Cosine	
CRI		>80	
Percent flicker, %		1%	
Power factor		0,9	
Electric safety classification		I	
IP rating		65	
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)	
Temperature range, °C		-10 ÷ +45°C	
Lifetime, hours		50 000 hours	
Warranty period, years		5 years	

Standard modification: housing Color – white, diffuser – textured, CCT – N.



TITAN luminaires are supplied with mounting plates. Such plates allow for mounting onto narrow cable-trays or suspending with studs.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE (120°)	OPTIONS
			On order: - Backup Power Supply Unit (BPSU): LE 0274

RETAIL

Efficient substitute for linear fluorescent luminaires (suspended/ ceiling-mounted bulkhead) for public buildings (PHILIPS TTX), 2x36 W, 2x58 W.

GENERAL INFORMATION

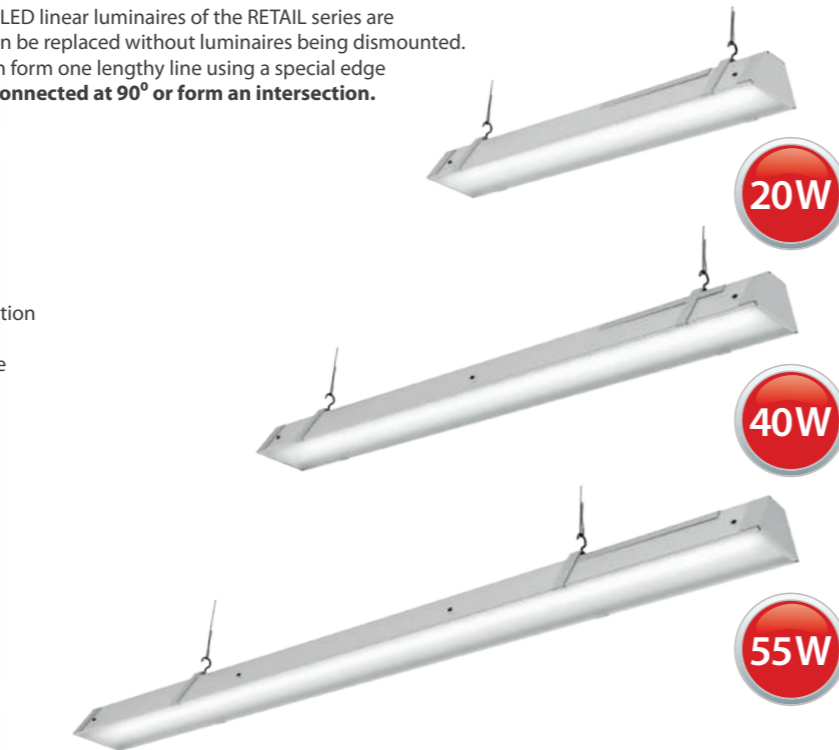
RETAIL series luminaires are designed to be suspended. LED linear luminaires of the RETAIL series are specially made for trade floors in hypermarkets. PSUs can be replaced without luminaires being dismantled. These luminaires have one valuable advantage; they can form one lengthy line using a special edge connector from both ends. **RETAIL luminaires can be connected at 90° or form an intersection.**

ADVANTAGES

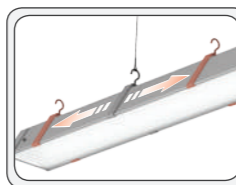
- Nichia LEDs (Japan)
- Mounting: suspended
- Connection into one uniform line
- Connection at an angle and intersection-like connection
- Easy lengthways adjustment of suspensions
- PSU replacement without dismantling the luminaire
- Soft comfortable light
- Minimum percent flicker, less than 1%
- Opal or textured diffuser
- Instant start
- Noiseless operation
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours
- WAGO connectors for a faster and more reliable connection to the mains

APPLICATIONS

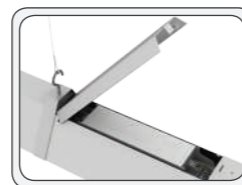
- Trade floors (hypermarkets)
- Administrative and office buildings
- Halls and corridors



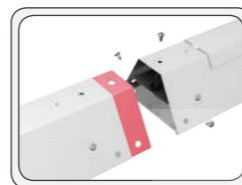
Lengthways adjustment of suspensions



Replaceable PSU



End-to-end connection



SPECIFICATIONS

Modification with an textural diffuser	20 W	40 W	55 W
Single luminaires	LE-USP-14-020-0754-20N	LE-USP-14-040-0756-20N	LE-USP-14-055-0471-20N
Connecting luminaires	LE-USP-14-020-0753-20N	LE-USP-14-040-0755-20N	LE-USP-14-055-0439-20N
Luminous flux, lm	1600 lm	3300 lm	5000 lm
Color temperature, (N)			
Modification with an opal diffuser			
Single luminaires	LE-USP-14-020-0789-20N	LE-USP-14-040-0791-20N	LE-USP-14-055-0472-20N
Connecting luminaires	LE-USP-14-020-0788-20N	LE-USP-14-040-0790-20N	LE-USP-14-055-0450-20N
Luminous flux, lm	1500 lm	3200 lm	4900 lm
Color temperature, (N)			
General information			
Number of LEDs, pcs	32 pcs	64 pcs	96 pcs
Power, W	20 W	40 W	55 W
Dimensions of a luminaire, (LxWxH) mm	485x113,4x111 mm	965x113,4x111 mm	1446x113,4x80 mm
Dimensions of a package, (LxWxH) mm	600x130x90 mm	1080x130x90 mm	1520x127,2x175 mm
Weight, kg	1,2 kg	2 kg	3,5 kg
Voltage, V/ Frequency, Hz	175-260 V/50 Hz		
Light distribution classification	P (direct light)		
Light distribution curve	Cosine		
CRI	>80		
Percent flicker,%	1%		
Power factor	0,9		
Electric safety classification	I		
IP rating	20		
Climatic modification	NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, °C	0 ÷ +45°C		
Lifetime, hours	50 000 hours		
Warranty period, years	5 years		

Standard modification: housing Color – grey, diffuser – textured, CCT – N.

A detailed diagram of the connection of fixtures and options for their connections, see on p. 62.

OVERALL DIMENSIONS, mm

PACKAGE DIMENSIONS, mm

COSINE LIGHT DISTRIBUTION CURVE (120°)

OPTIONS

On order:

- Edge connector: LE 0598
- Backup Power Supply Unit (BPSU): LE 0274
- Set for cord suspension: LE1139



RETAIL-LIGHT

Efficient substitute for linear fluorescent luminaires (suspended/ ceiling-mounted bulkhead) for public buildings (PHILIPS TTX), 1x58 W.

GENERAL INFORMATION

LED linear luminaires of the RETAIL-LIGHT series are specially made for trade floors in hypermarkets. The user-friendly fitting allows for suspended mounting. These luminaires have one valuable advantage; they can form one lengthy line using a special edge connector from both ends.

ADVANTAGES

- Nichia LEDs (Japan)
- Mounting: suspended
- High efficacy, over 100 lm/W
- Connecting luminaires into one uniform line
- Easy lengthways adjustment of suspensions
- Minimum percent flicker, less than 1%
- Opal or textured diffuser
- Instant start
- Noiseless operation
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours
- WAGO connectors for a faster and more reliable connection to the mains

APPLICATIONS

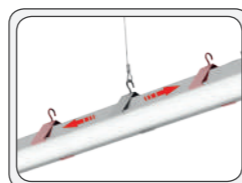
- Trade floors (hypermarkets)
- Shelves with products layout
- Spotlight lighting
- Administrative and office buildings
- Information desks



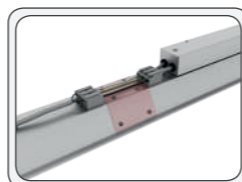
Connecting luminaires into one line



Lengthways adjustment of suspensions



End-to-end connection



WAGO for fast reliable connection



SPECIFICATIONS



Modification a textural diffuser		40 W
Connecting luminaire		LE-USP-14-040-1140-20N LE-USP-14-040-1142-20W
Luminous flux, (lm)	Color temperature, (N)	4100 lm
	Color temperature, (W)	4000 lm
Modification with an opal diffuser		
Connecting luminaire		LE-USP-14-040-1141-20N LE-USP-14-040-1143-20W
Luminous flux, (lm)	Color temperature, (N)	4000 lm
	Color temperature, (W)	3900 lm
General information		
Number of LEDs, pcs		36 pcs
Power, W		40 W
Dimensions of a luminaire, (LxWxH) mm		1434x110x92 mm
Dimensions of a package, (LxWxH) mm		1570x130x95 mm
Weight, kg		1,6 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz
Light distribution classification		P (direct light)
Light distribution curve		Cosine
CRI		>80
Percent flicker,%		1%
Power factor		0,9
Electric safety classification		I
IP rating		20
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)
Temperature range, °C		0 ÷ +45 °C
Lifetime, hours		50 000 hours
Warranty period, years		5 years

Standard modification: housing color – white, diffuser – textured, CCT – N.

The cord is not included into the basic set of supply. RETAIL LIGHT luminaires of the connecting type can form one line.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> - Set for cord suspension: LE1139

RETAIL-OPTIC

Efficient substitute for linear fluorescent luminaires (suspended/ ceiling-mounted bulkhead) for public buildings 1x18 W, 1x36 W, 1x58 W, 2x58 W.

GENERAL INFORMATION

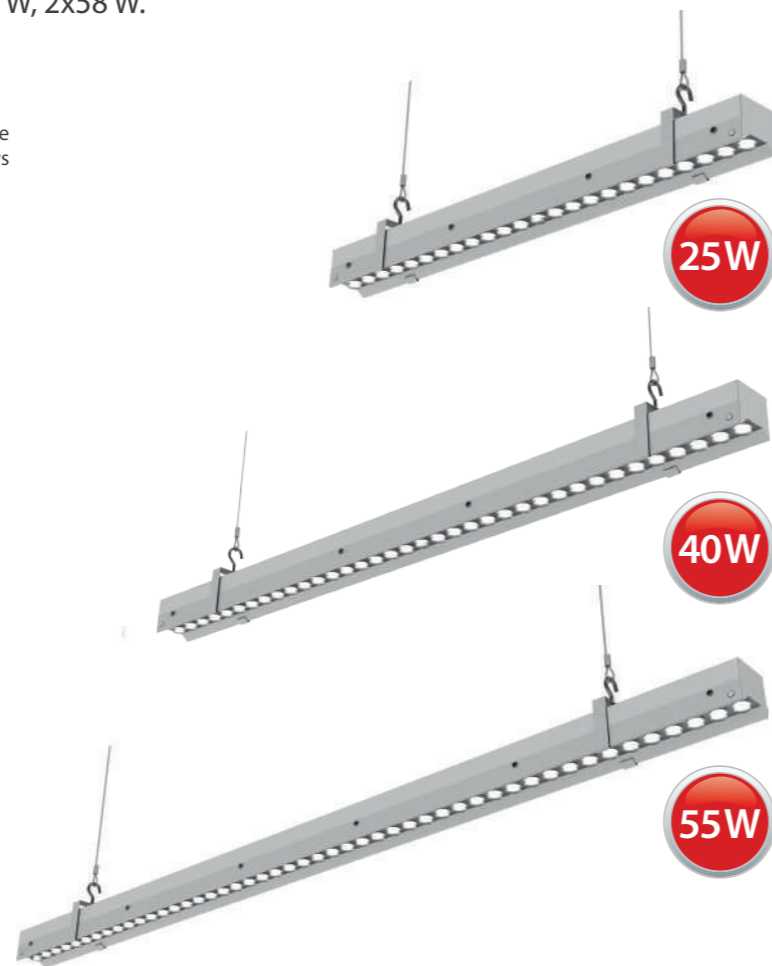
LED linear luminaires of RETAIL-OPTIC series are specially made for trade floors in hypermarkets. The user-friendly fitting allows for suspended mounting. The luminaires are provided with extra optics which ensures required illumination along the aisles and in the product shelves.

ADVANTAGES

- Nichia LEDs (Japan)
- Mounting: suspended
- LEDIL optics
- Easy lengthways adjustment of suspensions
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- Instant start
- Noiseless operation
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours
- WAGO connectors for a faster and more reliable connection to the mains

APPLICATIONS

- Trade floors (hypermarkets)
- High product shelves
- Shelves with products layout
- Product shelves
- Spaces along rows and between shelves

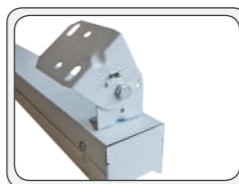


25W

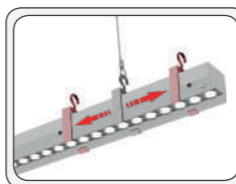
40W

55W

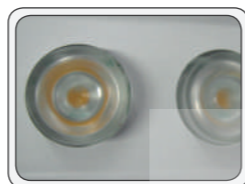
Optional bulkhead fitting with tilt angle adjustment



Lengthways adjustment of suspensions



LEDIL optics



SPECIFICATIONS

Modification with the cosine light distribution curve 26		25 W	40 W	55 W
Product code		LE-USP-14-028-0748-20N LE-USP-14-028-0747-20W	LE-USP-14-040-0722-20N LE-USP-14-040-0733-20W	LE-USP-14-055-0728-20N LE-USP-14-055-0727-20W
Luminous flux, (lm)	Color temperature, (N)	2300 lm	3700 lm	5300 lm
	Color temperature, (W)	2200 lm	3600 lm	5100 lm
Modification with the deep light distribution curve 42+19		25 W	40 W	55 W
Product code		LE-USP-14-028-0750-20N LE-USP-14-028-0749-20W	LE-USP-14-040-0724-20N LE-USP-14-040-0723-20W	LE-USP-14-055-0730-20N LE-USP-14-055-0729-20W
Luminous flux, (lm)	Color temperature, (N)	2300 lm	3700 lm	5300 lm
	Color temperature, (W)	2200 lm	3600 lm	5100 lm
General information				
Number of LEDs, pcs		24 pcs	36 pcs	48 pcs
Power, W		25 W	40 W	55 W
Dimensions of a luminaire, (LxWxH) mm		593,5x53,5x95 mm	889x53,5x95 mm	1184,5x53,5x95 mm
Dimensions of a package, (LxWxH) mm		600x60x100 mm	900x60x100 mm	1200x60x100 mm
Weight, kg		1,2 kg	1,7 kg	2,2 kg
Light distribution classification		P (direct light)		
Voltage, V/ Frequency, Hz		175-260 V/50 Hz		
CRI		80		
Percent flicker,%		1%		
Power factor		0,95		
Electric safety classification		I		
IP rating		20		
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, °C		-60 ÷ +50 °C		
Lifetime, hours		50 000 hours		
Warranty period, years		5 years		

Standard modification: housing color – white, diffuser – textured, CCT – N.
The cord is not included into the basic set of supply.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE 26	DEEP LIGHT DISTRIBUTION CURVE 42+19	OPTIONS
				On order: <ul style="list-style-type: none"> - Optional bulkhead fitting with tilt angle adjustment: LE0821 - Set for cord suspension: LE1139

RETAIL (URP)

Efficient substitute for fluorescent recessed luminaires for public buildings 2x18 W, 2x36 W.

GENERAL INFORMATION

RETAIL (URP) luminaires are designed to be recessed into ceilings of gypsum. Firm spring fitting ensures easy and fast mounting.

ADVANTAGES

- Nichia LEDs (Japan)
- Suspended mounting
- Practic and firm spring fastener for fast mounting of the luminaire
- Soft comfortable lightning
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- Instant start
- Noiseless operation
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours
- WAGA connectors for faster and more reliable connection to the mains

APPLICATIONS

- Trade floors (hypermarkets)
- Administrative and office buildings
- Halls and corridors



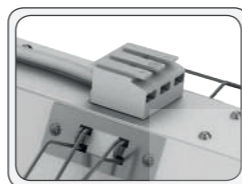
25W

40W

Firm spring fitting



WAGA connectors for easy connection

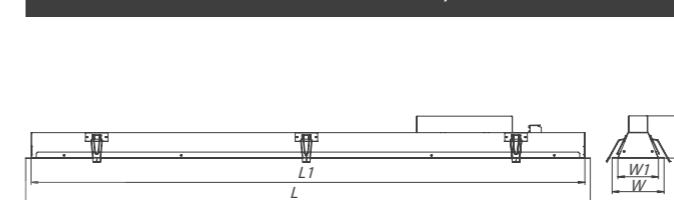


SPECIFICATIONS

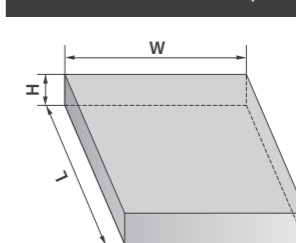
Modification a textural diffuser		25 W	40 W
Connecting luminaire		LE-URP-14-025- 1048 -20N LE-URP-14-025- 1049 -20W	LE-URP-14-040- 0677 -20N LE-URP-14-040- 0678 -20W
Luminous flux, (lm)	Color temperature, (N)	2000 lm	3000 lm
	Color temperature, (W)	1900 lm	2900 lm
Modification with an opal diffuser		25 W	40 W
Connecting luminaire		LE-URP-14-025- 1050 -20N LE-URP-14-025- 1051 -20W	LE-URP-14-040- 0759 -20N LE-URP-14-040- 0760 -20W
Luminous flux, (lm)	Color temperature, (N)	1900 lm	2900 lm
	Color temperature, (W)	1800 lm	2800 lm
General information			
Number of LEDs, pcs		27 pcs	36 pcs
Power, W		25 W	40 W
Dimensions of a luminaire, (LxWxH) mm		1015x115x94 mm	1490x115x94 mm
Dimensions of a package, (LxWxH) mm		1080x130x95 mm	1570x130x95 mm
Mounting holes, mm		995x93 mm	1470x93 mm
Weight, kg		1,6 kg	2 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz	
Light distribution classification		P (direct light)	
Light distribution curve		Cosine	
CRI		>80	
Percent flicker,%		1%	
Power factor		0,9	
Electric safety classification		I	
IP rating		20	
Climatic modification		NF 4	
Temperature range, °C		0 ÷ +45°C	
Lifetime, hours		50 000 hours	
Warranty period, years		5 years	

Standard modification: housing color – white, diffuser – textured, color temperature – N.

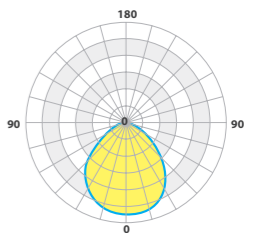
OVERALL DIMENSIONS, mm



PACKAGE DIMENSIONS, mm



COSINE LIGHT DISTRIBUTION CURVE



Linear LED luminaires.

GENERAL INFORMATION

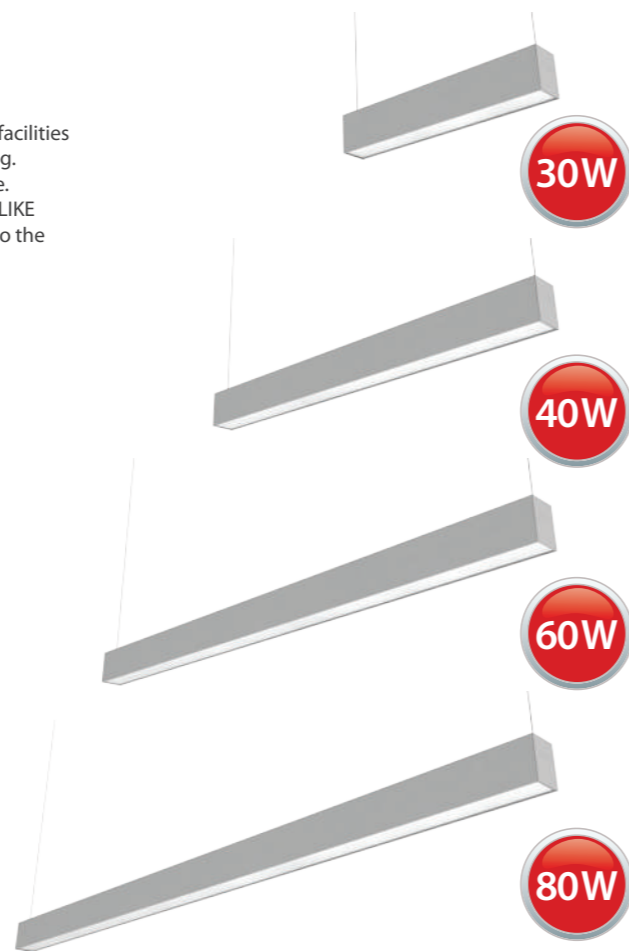
The suspended linear luminaires are designed for comfortable illumination in facilities of various applications. The user-friendly fitting allows for suspended mounting. These luminaires have one valuable advantage; they can form one lengthy line. ARROW luminaires can be connected at 90° and combine into INTERSECTION-LIKE and ANGLED connection. The optional fitting ensures bulkhead mounting onto the wall. To proceed with ANGLED and INTERSECTION-LIKE connection additional adapters are required.

ADVANTAGES

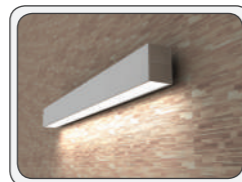
- Nichia LEDs (Japan)
- Mounting: suspended
- Connection into one uniform line
- Connection at an angle and intersection-like connection
- Housing of anodized aluminium
- Comfortable light
- Opal microprismatic diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50 000 hours
- WAGO connectors for a faster and more reliable connection to the mains

APPLICATIONS

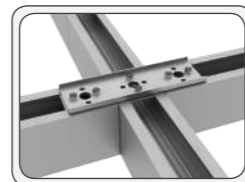
- Apartments
- Cottages
- Hotels
- Administrative and office buildings
- Business centers
- Shopping malls
- Trade floors
- Halls and corridors



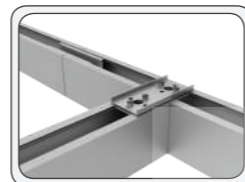
Bulkhead mounting onto walls



«INTERSECTION-LIKE» connection



End-to-end and angled connection



SPECIFICATIONS

Modification with an opal diffuser	30 W	40 W	60 W	80 W	
Product code	LE-USP-23-030-0837-20C LE-USP-23-030-0838-20N LE-USP-23-030-0839-20W	LE-USP-23-040-0843-20C LE-USP-23-040-0844-20N LE-USP-23-040-0845-20W	LE-USP-23-060-0849-20C LE-USP-23-060-0850-20N LE-USP-23-060-0851-20W	LE-USP-23-080-0855-20C LE-USP-23-080-0856-20N LE-USP-23-080-0857-20W	
Luminous flux, (lm)	Color temperature, (C)	2300 lm	3800 lm	6150 lm	8100 lm
	Color temperature, (N)	2250 lm	3750 lm	6100 lm	8000 lm
	Color temperature, (W)	2150 lm	3650 lm	6000 lm	7900 lm
General information					
Number of LEDs, pcs	48 pcs	102 pcs	153 pcs	204 pcs	
Power, W	30 W	40 W	60 W	80 W	
Dimensions of a luminaire, (LxWxH) mm	490x65x100 mm	970x65x100 mm	1450x65x100 mm	1930x65x100 mm	
Dimensions of a package, (LxWxH) mm	500x75x110 mm	980x75x110 mm	1460x75x110 mm	1940x75x110 mm	
Weight, kg	1,2 kg	2,2 kg	3,3 kg	4,3 kg	
Voltage, V/ Frequency, Hz	175-260 V/50 Hz				
Light distribution classification	P (direct light)				
Light distribution curve	Cosine				
CRI	>80				
Percent flicker,%	1%				
Power factor	0,9				
Electric safety classification	I				
IP rating	20				
Climatic modification	NF 4				
Temperature range, °C	0 ÷ +45°C				
Lifetime, hours	50 000 hours				
Warranty period, years	5 years				

Standard modification: housing color – grey, diffuser – textured, color temperature – N. The cord is not included into the basic set of supply.



Adapter for intersection-like connection: LE0969



Adapter for angled connection: LE0936

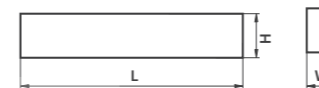


Adapter for end-to-end connection: LE0968

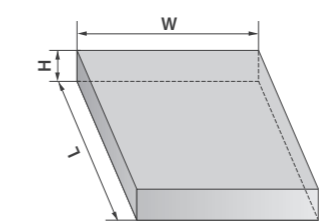


Set for cord suspension: LE0962

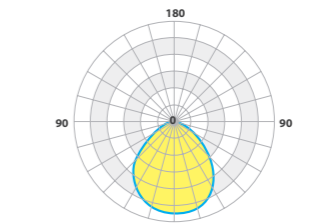
OVERALL DIMENSIONS, mm



PACKAGE DIMENSIONS, mm



COSINE LIGHT DISTRIBUTION CURVE



OPTIONS

- On order:**
- Brackets for wall mounting LE0935;
 - Adapter for angled connection LE0936;
 - Set for cord suspension LE0962;
 - Adapter for end-to-end connection LE0968;
 - Adapter for intersection-like connection LE0969;
 - Dimmable power supply unit LE0757

GRILYATO



Efficient substitute for luminaires of Downlight type with compact fluorescent lamps 2x13 W, 2x26 W.

GENERAL INFORMATION

The luminaires are specifically designed to be recessed into the ceilings of GRILYATO type (cell sizes 50x50 mm, 100x100 mm, 200x200 mm). The luminaires can be mounted into the standard cells of the ceilings of GRILYATO type due to thoughtfully designed housing. The user-friendly fixation system of the luminaire. Materials of high quality, extensive reliability. The luminaires GRILYATO series can also be recessed into suspended ceiling of gypsum with the extra fitting, product code LE-0629.

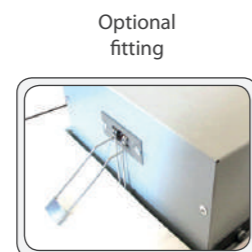
ADVANTAGES

- Nichia LEDs (Japan)
- Soft light due to a higher housing
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- IP 20
- Lifetime over 50,000 hours
- WAGO connectors for faster and more reliable connection to the mains

APPLICATIONS

- Trade floors (hypermarkets)
- Airports
- Administrative and office buildings
- Halls and corridors
- Spot illumination of targeted spaces





SPECIFICATIONS



Modification with textured diffuser		33 W
Product code		LE-URP-04-033-0054-20N LE-URP-04-033-0055-20W
Luminous flux, (lm)	Color temperature, (N)	2300 lm
	Color temperature, (W)	2200 lm
Modification with opal diffuser		
Product code		LE-URP-04-033-0060-20N LE-URP-04-033-0061-20W
Luminous flux, (lm)	Color temperature, (N)	2200 lm
	Color temperature, (W)	2100 lm
General information		
Number of LEDs, pcs		24 pcs
Power, W		33 W
Dimensions of a luminaire, (LxWxH) mm		211x211x123,5 mm
Dimensions of a package, (LxWxH) mm		215x215x125 mm
Weight, kg		1,1 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz
Light distribution classification		P (direct light)
Light distribution curve		Cosine
CRI		>80
Percent flicker,%		1%
Power factor		0,9
Electric safety classification		I
IP rating		20
Climatic modification		NF 4
Temperature range, °C		0 ÷ +45°C
Lifetime, hours		50 000 hours
Warranty period, years		5 years

Standard modification: housing color – white, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> - Fitting for mounting into ceilings of gypsum: LE-0629



GRILYATO



Efficient substitute for fluorescent ceiling-recessed luminaires 2x36 W, 2x18 W.

GENERAL INFORMATION

The luminaire is specifically designed to be recessed into the ceilings of Grilyato type (cell sizes 50x50 mm, 100x100 mm, 200x200 mm). The luminaires can be mounted into the standard cells of the ceilings of Grilyato type due to thoughtfully designed housing. The user-friendly fixation system of the luminaire. Materials of high quality, extensive reliability.

ADVANTAGES

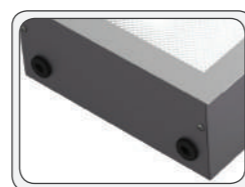
- Nichia LEDs (Japan)
- Soft light due to a higher housing
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- Easy mounting
- No specific requirements for maintenance
- No specific requirements for disposal
- IP 20
- Lifetime over 50,000 hours
- WAGO connectors for faster and more reliable connection to the mains

APPLICATIONS

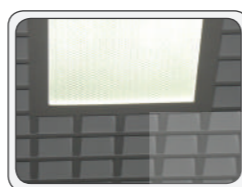
- Trade floors (hypermarkets)
- Airports
- Administrative and office buildings
- Halls and corridors
- Spot illumination of targeted spaces



User-friendly fitting



Mounting into ceilings of Grilyato type



SPECIFICATIONS



Modification with textured diffuser		33 W	25 W
Product code		LE-URP-04-040-0070-20N LE-URP-04-040-0071-20W	LE-URP-04-030-0062-20N LE-URP-04-030-0063-20W
Luminous flux, (lm)	Color temperature, (N)	3000 lm	2300 lm
	Color temperature, (W)	2900 lm	2200 lm
Modification with opal diffuser		33 W	25 W
Product code		LE-URP-04-040-0074-20N LE-URP-04-040-0075-20W	LE-URP-04-030-0066-20N LE-URP-04-030-0067-20W
Luminous flux, (lm)	Color temperature, (N)	2900 lm	2200 lm
	Color temperature, (W)	2800 lm	2100 lm
General information			
Number of LEDs, pcs		64 pcs	48 pcs
Power, W		33 W	25 W
Dimensions of a luminaire, (LxWxH) mm		1211x211x99,8 mm	611x211x99,8 mm
Dimensions of a package, (LxWxH) mm		1220x210x110 mm	213x613x113 mm
Weight, kg		2,7 kg	1,5 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz	
Light distribution classification		P (direct light)	
Light distribution curve		Cosine	
CRI		>80	
Percent flicker,%		1%	
Power factor		0,9	
Electric safety classification		I	
IP rating		20	
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)	
Temperature range, °C		0 ÷ +45°C	
Lifetime, hours		50 000 hours	
Warranty period, years		5 years	

Standard modification: housing color – white, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm 	PACKAGE DIMENSIONS, mm 	COSINE LIGHT DISTRIBUTION CURVE 	OPTIONS <p>On order:</p> <ul style="list-style-type: none"> - Backup Power Supply Unit (BPSU): LE 0274 - Fitting for mounting into ceilings of gypsum: LE-0629
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GRILYATO-DOMINO



RECESSED LUMINAIRES

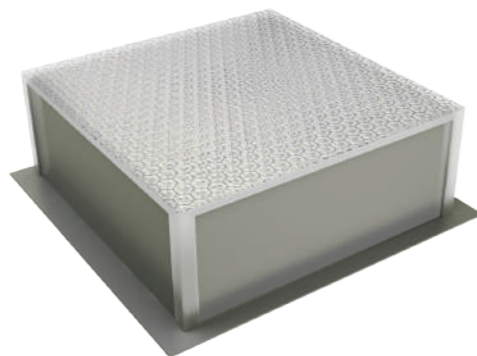
The distinctive solution for custom illumination designs.

GENERAL INFORMATION

Recessed LED luminaires series are designed to be recessed into ceilings of the GRILYATO type. The luminaires are made of optical PC, the diffuser has the special cover to ensure balanced distribution of luminous flux and to prevent flash blindness. GRILYATO-DOMINO luminaires are applied for custom illumination designs, provide the unique luminous effect which highlights advanced solutions in interior design. GRILYATO-DOMINO luminaires are recessed into the ceilings of GRILYATO type, cell size 100x100 mm. The set of supply includes 6 luminaires, connecting cables and PSU. Luminous flux of a single luminaire is 525 lm, power is 8 W, one set is sufficient to substitute a luminous recessed luminaire 4x18 W.

GENERAL INFORMATION

- Nichia LEDs (Japan)
- Distinctive solution for custom illumination designs
- Textured or opal diffuser
- Easy mounting
- Possibility to embody various illumination ideas
- No specific requirements for maintenance
- No specific requirements for disposal
- IP20
- Lifetime over 50,000 hours



Single luminaire

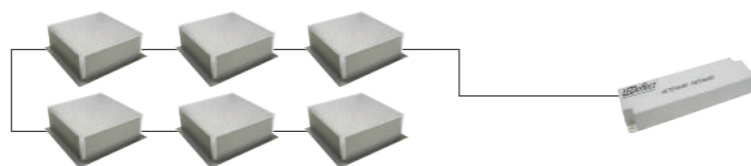


6 luminaires set

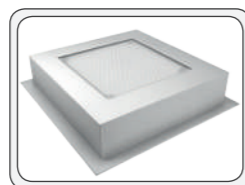
APPLICATIONS

- Custom designs
- Conference and image rooms
- Airports
- Administrative and office buildings
- Halls and corridors
- Spot illumination of targeted spaces

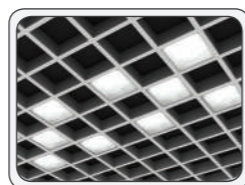
LUMINAIRES DELIVERED IN THE SET



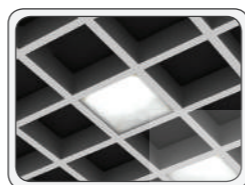
Expansion for ceilings with cells sized 75x75 mm, 150x150 mm and over



Custom illumination design



Recessed into ceilings (Grilyato type, cell size 100x100 mm)



SPECIFICATIONS



Modification with textural diffuser		50 W
Product code (5 luminaires set and PSU)		LE-URP-17-050-0662-20N LE-URP-17-050-0663-20W
Luminous flux, (lm)	Color temperature, (N)	3150 lm
	Color temperature, (W)	3000 lm
Modification with opal diffuser		
Product code (5 luminaires set and PSU)		LE-URP-17-050-0664-20N LE-URP-17-050-0665-20W
Luminous flux, (lm)	Color temperature, (N)	3000 lm
	Color temperature, (W)	2900 lm
General information		
Power, W	50 W	
Dimensions of a luminaire, (LxWxH) mm	100x100x45 mm	
Dimensions of a package, (LxWxH) mm	310x310x50 mm	
Weight, kg	1 kg	
Voltage, V/ Frequency, Hz	175-260 V/50 Hz	
Light distribution classification	P (direct light)	
Light distribution curve	Cosine	
CRI	>80	
Percent flicker,%	1%	
Power factor	0,95	
Electric safety classification	I	
IP rating	20	
Climatic modification	NF 4	
Temperature range, °C	-0 ÷ +45°C	
Lifetime, hours	50 000 hours	
Warranty period, years	5 years	

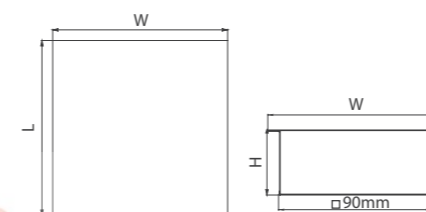
One set consists of:

- luminaires – 6 pcs
- connecting cables (each one of 1 m length)
- PSU
- WAGO connectors

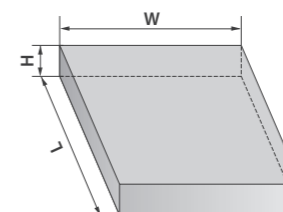


You can find detailed information about optional expansion in the section «AUXILIARIES», p. 73

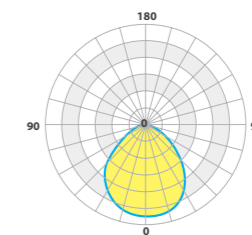
OVERALL DIMENSIONS, mm



PACKAGE DIMENSIONS, mm



COSINE LIGHT DISTRIBUTION CURVE



OPTIONS

- On order:**
- Optional expansion: LE0829



OFFICE-GRILYATO



RECESSED LUMINAIRES

Efficient substitute for fluorescent ceiling-recessed luminaires 4x18 W.

GENERAL INFORMATION

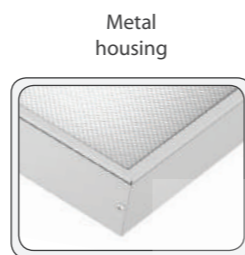
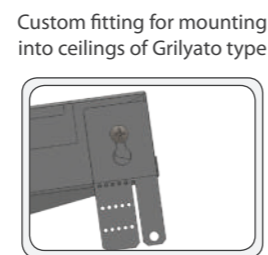
Luminaires OFFICE GRILYATO series is specifically designed to be recessed into the ceilings of GRILYATO type (cell sizes: 50x50 mm, 100x100 mm, 200x200 mm). Metal housing, effective heat dissipation. Housing color is white. The luminaires are available in several modifications:
 – 25 W (up to 2300 lm) – for backup premises and corridors,
 – 33 W (up to 3000 lm) – substitute for fluorescent ceiling-recessed luminaires 4x18 W,
 – 40 W (up to 3700 lm) – for premises with high illumination standards.

ADVANTAGES

- Nichia LEDs (Japan)
- High CRI >80
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Excellent price
- Lifetime over 50,000 hours

APPLICATIONS

- Administrative and office buildings
- Public institutions
- Educational institutions
- Medical centers
- Trade floors
- Halls and corridors



SPECIFICATIONS



Modification with opal diffuser		40 W	33 W	25 W
Product code		LE-URP-03-050-0547-20C	LE-URP-03-040-0542-20C	LE-URP-03-030-0595-20C
		LE-URP-03-050-0548-20N	LE-URP-03-040-0543-20N	LE-URP-03-030-0538-20N
		LE-URP-03-050-0549-20W	LE-URP-03-040-0544-20W	LE-URP-03-030-0539-20W
Luminous flux, (lm)	Color temperature, (C)	4100 lm	3500 lm	2600 lm
	Color temperature, (N)	4040 lm	3400 lm	2500 lm
	Color temperature, (W)	3900 lm	3300 lm	2400 lm
Modification with opal diffuser		40 W	33 W	25 W
Product code		LE-URP-03-050-0569-20C	LE-URP-03-040-0568-20C	LE-URP-03-030-0567-20C
		LE-URP-03-050-0550-20N	LE-URP-03-040-0545-20N	LE-URP-03-030-0540-20N
		LE-URP-03-050-0551-20W	LE-URP-03-040-0546-20W	LE-URP-03-030-0541-20W
Luminous flux, (lm)	Color temperature, (C)	4000 lm	3400 lm	2500 lm
	Color temperature, (N)	3950 lm	3300 lm	2400 lm
	Color temperature, (W)	3850 lm	3250 lm	2300 lm
General information				
Number of LEDs, pcs		80 pcs	64 pcs	48 pcs
Power, W		40 W	33 W	25 W
Dimensions of a luminaire, (LxWxH) mm		589x589x40 mm		
Dimensions of a package, (LxWxH) mm		610x610x85 mm		
Weight, kg		3,1 kg		
Voltage, V/ Frequency, Hz		175-260 V/50 Hz		
Light distribution classification		P (direct light)		
Light distribution curve		Cosine		
CRI		>80		
Percent flicker,%		1%		
Power factor		0,9		
Electric safety classification		I		
IP rating		20		
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, °C		0 ÷ +45°C		
Lifetime, hours		50 000 hours		
Warranty period, years		5 years		

Standard modification: housing color – grey, diffuser – opal, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> – Backup Power Supply Unit (BPSU): LE 0274





OFFICE

Efficient substitute for fluorescent ceiling-recessed luminaires 4x18 W.

GENERAL INFORMATION

The luminaires are to be mounted into the ceilings of «Armstrong» type. Pyramidic housing made of steel ensures efficient light distribution and heat dissipation. As an option OFFICE luminaires can be completed with decorative lamp-shade «CUBE», the logo of the customer can be located there. OFFICE series is a low-cost effective substitute for fluorescent luminaires. The luminaires are available in 3 basic modifications:

- 25 W (up to 2400 lm) for backup premises,
- 33 W (up to 3100 lm) substitute for fluorescent ceiling-recessed luminaires 4x18 W,
- 40 W (up to 3800 lm) for premises with high illumination standards.

ADVANTAGES

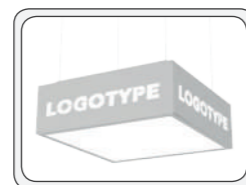
- Nichia LEDs (Japan)
- High CRI >80
- Housing height 40 mm
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Cost effective series
- Excellent price
- Lifetime over 50,000 hours

APPLICATIONS

- Administrative and office buildings
- Public institutions
- Educational institutions
- Medical centers
- Trade floors
- Halls and corridors



Decorative lamp-shade «CUBE» possible for logo promotion



Possible installation of dimming power supply unit



Cost effective option



SPECIFICATIONS



Modification with textured diffuser		40 W	33 W	25 W
Product code		LE-URP-03-050-0492-20C	LE-URP-03-040-0480-20C	LE-URP-03-030-0519-20C
		LE-URP-03-050-0361-20N	LE-URP-03-040-0359-20N	LE-URP-03-030-0009-20N
		LE-URP-03-050-0362-20W	LE-URP-03-040-0360-20W	LE-URP-03-030-0010-20W
Luminous flux, (lm)	Color temperature, (C)	4100 lm	3500 lm	2600 lm
	Color temperature, (N)	4040 lm	3400 lm	2500 lm
	Color temperature, (W)	3900 lm	3300 lm	2400 lm
Modification with opal diffuser		40 W	33 W	25 W
Product code		LE-URP-03-050-0553-20C	LE-URP-03-040-0520-20C	LE-URP-03-030-0559-20C
		LE-URP-03-050-0365-20N	LE-URP-03-040-0363-20N	LE-URP-03-030-0013-20N
		LE-URP-03-050-0366-20W	LE-URP-03-040-0364-20W	LE-URP-03-030-0014-20W
Luminous flux, (lm)	Color temperature, (C)	4000 lm	3400 lm	2500 lm
	Color temperature, (N)	3950 lm	3300 lm	2400 lm
	Color temperature, (W)	3850 lm	3250 lm	2300 lm
General information				
Number of LEDs, pcs		80 pcs	64 pcs	48 pcs
Power, W		40 W	33 W	25 W
Dimensions of a luminaire, (LxWxH) mm		597x597x40 mm		
Dimensions of a package, (LxWxH) mm		610x610x85 mm		
Weight, kg		3,1 kg		
Voltage, V/ Frequency, Hz		175-260 V/50 Hz		
Light distribution classification		P (direct light)		
Light distribution curve		Cosine		
CRI		>80		
Percent flicker,%		1%		
Power factor		0,9		
Electric safety classification		I		
IP rating		20		
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, C		0 ÷ +45°C		
Lifetime, hours		50 000 hours		
Warranty period, years		5 years		

Standard modification: housing color – grey, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> - Backup Power Supply Unit (BPSU): LE 0274 - Dimmable power supply Unit: LE0757 - Decorative lamp-shade «CUBE»: LE0830

OFFICE



Efficient substitute for fluorescent ceiling-recessed luminaires 2x18W, 2x36W, 4x36 W.

GENERAL INFORMATION

Luminaires of OFFICE series are designed to be recessed. Metal housing, efficient heat dissipation.

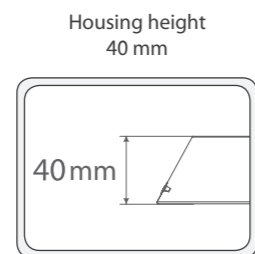
- 16 W (up to 1600 lm) efficient substitute for fluorescent ceiling-recessed luminaires 2x18 W.
- 33 W (up to 3100 lm) efficient substitute for fluorescent ceiling-recessed luminaires 2x36 W.
- 66 W (up to 5900 lm) efficient substitute for fluorescent ceiling-recessed luminaires 4x36 W.

ADVANTAGES

- Nichia LEDs (Japan)
- High CRI >80
- Minimum percent flicker, less than 1%
- IP20
- Easy mounting
- Textured or opal diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours

APPLICATIONS

- Administrative and office buildings
- Public institutions
- Educational institutions
- Medical centers
- Trade floors
- Halls and corridors



SPECIFICATIONS



Modification with textured diffuser		66 W	33 W	16 W
Product code		LE-URP-03-080-0503-20C	LE-URP-03-040-0498-20C	LE-URP-03-020-0518-20C
		LE-URP-03-080-0504-20N	LE-URP-03-040-0499-20N	LE-URP-03-020-0494-20N
		LE-URP-03-080-0505-20W	LE-URP-03-040-0500-20W	LE-URP-03-020-0495-20W
Luminous flux, (lm)	Color temperature, (C)	6100 lm	3400 lm	1600 lm
	Color temperature, (N)	6000 lm	3300 lm	1500 lm
	Color temperature, (W)	5900 lm	3200 lm	1400 lm
Modification with opal diffuser		66 W	33 W	16 W
Product code		LE-URP-03-080-0552-20C	LE-URP-03-040-0560-20C	LE-URP-03-020-0558-20C
		LE-URP-03-080-0506-20N	LE-URP-03-040-0501-20N	LE-URP-03-020-0496-20N
		LE-URP-03-080-0507-20W	LE-URP-03-040-0502-20W	LE-URP-03-020-0497-20W
Luminous flux, (lm)	Color temperature, (C)	6000 lm	3300 lm	1500 lm
	Color temperature, (N)	5900 lm	3200 lm	1400 lm
	Color temperature, (W)	5800 lm	3100 lm	1300 lm
General information				
Number of LEDs, pcs		128 pcs	64 pcs	32 pcs
Power, W		66 W	33 W	16 W
Dimensions of a luminaire, (LxWxH) mm		1197x597x40 mm	1197x297x40 mm	597x297x40 mm
Dimensions of a package, (LxWxH) mm		1210x605x70 mm	1210x305x70 mm	605x605x70 mm
Weight, kg		5,9 kg	3,5 kg	2,5 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz		
Light distribution classification		P (direct light)		
Light distribution curve		Cosine		
CRI		>80		
Percent flicker,%		1%		
Power factor		0,9		
Electric safety classification		I		
IP rating		20		
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, C		0 ÷ +45°C		
Lifetime, hours		50 000 hours		
Warranty period, years		5 years		

Standard modification: housing color – grey, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> - Backup Power Supply Unit (BPSU): LE 0274 - Dimmable power supply unit: LE0757



OFFICE-IP54

Energy saving equivalent to fluorescent luminaires 4x18 W.

GENERAL INFORMATION

Luminaires of the OFFICE IP54 series are designed to be recessed into ceilings of the Armstrong type. OFFICE IP54 luminaires are specially designed to be used in clean environments; they are IP54 (increased protection from environmental exposure). Luminaires have a comfortable light distribution due to a higher housing. They are provided with an IP54 pull box for an easier connection. Steel housing ensures optimum heat dissipation.



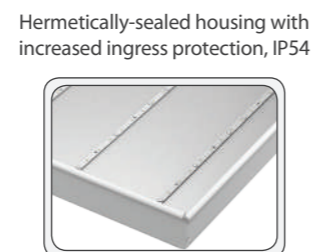
33W

ADVANTAGES

- Nichia LEDs (Japan)
- Increased IP54 protection
- High CRI >80
- Minimum percent flicker, less than 1%
- Opal diffuser
- Comfortable light distribution due to a higher housing
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours

APPLICATIONS

- Medical institutions
- Labs
- Educational institutions
- Administrative and office buildings
- Public institutions
- Trade floors



SPECIFICATIONS



Modification with an opal diffuser	For «Armstrong»	For «Armstrong» Clip in
Product code	LE-URP-03-040-0610-54C LE-URP-03-040-0611-54N LE-URP-03-040-0612-54W	LE-URP-03-040-0806-54C LE-URP-03-040-0807-54N LE-URP-03-040-0808-54W
Luminous flux, lm	Color temperature, (C)	3000 lm
	Color temperature, (N)	2900 lm
	Color temperature, (W)	2800 lm
General information		
Number of LEDs, pcs	64 pcs	64 pcs
Power, W	33 W	33 W
Dimensions of a luminaire, (LxWxH) mm	595,5x595,5x65 mm	600x600x65 mm
Dimensions of a package, (LxWxH) mm	610x610x85 mm	610x610x85 mm
Weight, kg	3,5 kg	3,5 kg
Voltage, V/ Frequency, Hz	175-260 V/50 Hz	
Light distribution classification	P (direct light)	
Light distribution curve	Cosine	
CRI	>80	
Percent flicker, %	1%	
Power factor	0,9	
Electric safety classification	I	
IP rating	54	
Climatic modification	NF 4 (moderate and cold climate; indoor, with heating and AC systems)	
Temperature range, °C	-0 ÷ +45°C	
Lifetime, hours	50 000 hours	
Warranty period, years	5 years	

Standard modification: housing Color – grey, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm

PACKAGE DIMENSIONS, mm

COSINE LIGHT DISTRIBUTION CURVE (120°)

OPTIONS

On order:

- Backup Power Supply Unit (BPSU): LE 0274
- Dimmable power supply unit: LE0757



OFFICE-IP54

Efficient substitute for fluorescent suspended luminaires for public buildings 4x18 W.
The luminaires are used for lighting clean environments.

GENERAL INFORMATION

OFFICE IP54 luminaires are bulkhead ones. OFFICE IP54 luminaires are specially designed to be used in clean environments, they are IP54 (increased protection against environmental exposure). Luminaires are distinguished by comfortable lighting distribution due to a higher housing. They are provided with IP54 pull box for easier connection. Steel housing ensures effective heat dissipation.



ADVANTAGES

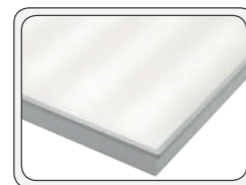
- Nichia LEDs (Japan)
- Increased IP54 protection
- Easy mounting
- High CRI >80
- Luminaires can be completed with diffusers of silicate opal glass
- Minimum percent flicker, less than 1%
- Opal diffuser
- Comfortable light distribution due to a higher housing
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours

APPLICATIONS

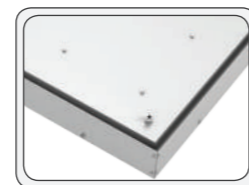
- Medical institutions
- Labs
- Educational institutions
- Administrative and office buildings
- Public institutions
- Trade floors



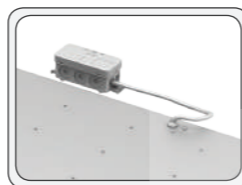
Optional silicate opal glass is available to be supplied



Reliable mantling of the luminaire onto ceiling



Luminaires are completed with IP54 pull boxes



SPECIFICATIONS



Modification with an opal diffuser		33 W
Product code		LE-UOP-03-033-0992 -54C LE-UOP-03-033-0651 -54N LE-UOP-03-033-0993 -54W
Luminous flux, lm	Color temperature, (C)	3000 lm
	Color temperature, (N)	2900 lm
	Color temperature, (W)	2800 lm
General information		
Number of LEDs, pcs		64 pcs
Power, W		33 W
Dimensions of a luminaire, (LxWxH) mm		603x603x75 mm
Dimensions of a package, (LxWxH) mm		610x610x85 mm
Weight, kg		3,5 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz
Light distribution classification		P (direct light)
Light distribution curve		Cosine
CRI		>80
Percent flicker,%		1%
Power factor		0,9
Electric safety classification		I
IP rating		54
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)
Temperature range, °C		-0 ÷ +45°C
Lifetime, hours		50 000 hours
Warranty period, years		5 years

Standard modification: housing color – grey, diffuser – opal, color temperature – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			On order: <ul style="list-style-type: none"> - Backup Power Supply Unit (BPSU): LE0274 - Dimmable power supply unit: LE0757 - Silicate opal glass: LE0809



OFFICE-IP54 (for lathed ceilings)

Series of LED luminaires to be recessed into lathed ceilings.

GENERAL INFORMATION

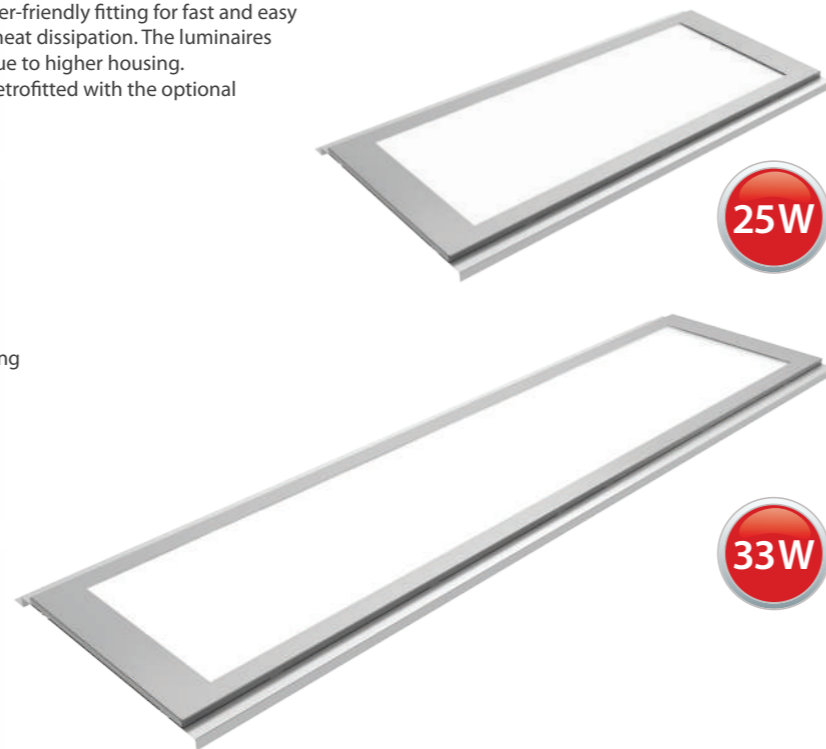
OFFICE IP54 luminaires are designed to be mounted into suspended lathed ceilings. The luminaires are specifically made to be used in clean premises. IP 54 ingress protection. The luminaires are completed with thought-out user-friendly fitting for fast and easy mounting. The housing made of steel ensures efficient heat dissipation. The luminaires are characterized with comfortable light distribution due to higher housing. Upon the request of a customer the luminaires can be retrofitted with the optional silicate opal diffuser.

ADVANTAGES

- Nichia LEDs (Japan)
- High CRI >80
- Minimum percent flicker, less than 1%;
- Opal diffuser
- Comfortable light distribution due to a higher housing
- Increased IP54 protection
- Easy mounting;
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours

APPLICATIONS

- Medical centers
- Laboratories
- Educational institutions
- Administrative and office buildings
- Public institutions
- Trade floors



Robust fitting
for lathed ceiling



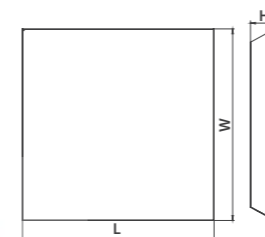
SPECIFICATIONS



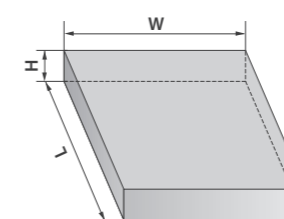
Modification with an opal diffuser	25 W	33 W	
Product code	LE-URP-03-025-0937-54C LE-URP-03-025-0938-54N	LE-URP-03-033-0939-54C LE-URP-03-033-0940-54N	
Luminous flux, lm	Color temperature, (C)	2100 lm	3000 lm
	Color temperature, (N)	2000 lm	2900 lm
General information			
Number of LEDs, pcs	48 pcs	64 pcs	
Power, W	25 W	33 W	
Dimensions of a luminaire, (LxWxH) mm	600x320x58 mm	1200x320x58 mm	
Dimensions of a package, (LxWxH) mm	610x330x68 mm	1210x330x68 mm	
Weight, kg	1,8 kg	3,4 kg	
Voltage, V/ Frequency, Hz	175-260 V/50 Hz		
Light distribution classification	P (direct light)		
Light distribution curve	Cosine		
CRI	>80		
Percent flicker, %	1%		
Power factor	0,9		
Electric safety classification	I		
IP rating	54		
Climatic modification	NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, °C	-0 ÷ +45°C		
Lifetime, hours	50 000 hours		
Warranty period, years	5 years		

Standard modification: housing color – white, diffuser – opal, CCT – N.

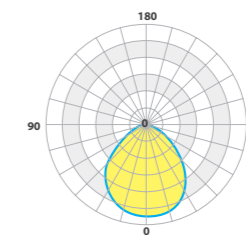
OVERALL DIMENSIONS, mm



PACKAGE DIMENSIONS, mm



COSINE LIGHT DISTRIBUTION CURVE



OPTIONS

On order:

- Backup power supply unit (BPSU): LE 0274
- Dimmable power supply unit: LE0757
- Silicate opal diffuser: LE0809



OFFICE-COMFORT

Comfortable and cost-effective substitute for fluorescent ceiling-recessed luminaires 4x18 W as well as for LED panels with uniform light distribution.

GENERAL INFORMATION

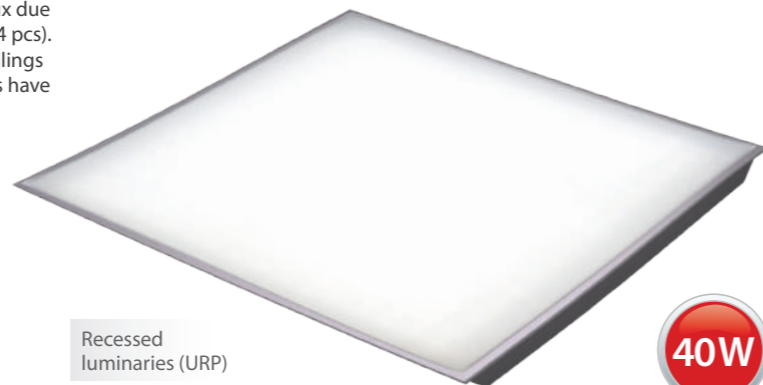
The luminaires provide for uniform distribution of luminous flux due to the dedicated LED matrix with many low-powered LEDs (144 pcs). The luminaires are designed to be recessed into suspended ceilings of Armstrong type, also for bulkhead mounting. The luminaires have metal housing for efficient heat dissipation.

ADVANTAGES

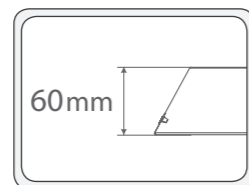
- Nichia LEDs (Japan)
- Soft comfortable flat illumination
- High CRI >80
- Housing height 70 mm
- Minimum percent flicker, less than 1%
- Opal diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Excellent price
- Lifetime over 50,000 hours

APPLICATIONS

- Administrative and office buildings
- Public institutions
- Educational institutions
- Medical centers
- Trade floors
- Halls and corridors



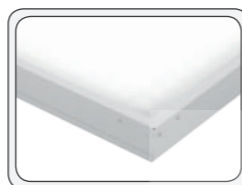
Housing height
60 mm



Possible installation
of dimming power supply unit



Uniform distribution
of luminous flux

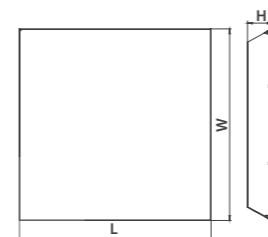


SPECIFICATIONS

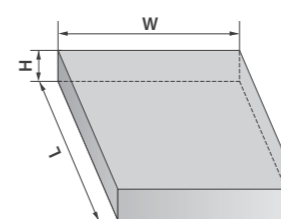
Modification with opal diffuser	40 W	40 W
Product code	LE-URP-03-040-0627-20C LE-URP-03-040-0628-20N	LE-UOP-03-040-0803-20C LE-UOP-03-040-0804-20N
Luminous flux, (lm)	Color temperature, (C)	3900 lm
	Color temperature, (N)	3800 lm
General information		
Number of LEDs, pcs	144 pcs	144
Power, W	40 W	40
Dimensions of a luminaire, (LxWxH) mm	597x597x60 mm	598x598x60 mm
Dimensions of a package, (LxWxH) mm	610x610x85 mm	610x610x85 mm
Weight, kg	3,1 kg	3,1 kg
Voltage, V/ Frequency, Hz	175-260 V/50 Hz	
Light distribution classification	P (direct light)	
Light distribution curve	Cosine	
CRI	>80	
Percent flicker,%	1%	
Power factor	0,9	
Electric safety classification	I	
IP rating	20	
Climatic modification	NF 4 (moderate and cold climate; indoor, with heating and AC systems)	
Temperature range, °C	0 ÷ +45°C	
Lifetime, hours	50 000 hours	
Warranty period, years	5 years	

Standard modification: housing color – grey, diffuser – opal, CCT – N.

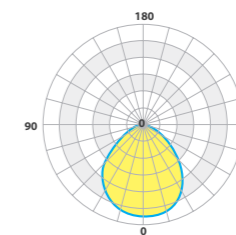
OVERALL DIMENSIONS, mm



PACKAGE DIMENSIONS, mm



COSINE LIGHT DISTRIBUTION CURVE



OPTIONS

On order:

- Dimmable power supply unit: LE0757



OFFICE BULKHEAD

Efficient substitute for luminous ceiling luminaires 4x18 W.

GENERAL INFORMATION

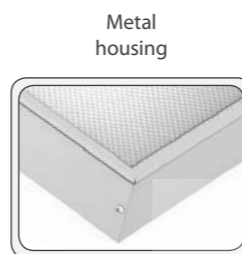
- Luminaires OFFICE series are designed to be bulkhead. Metal housing, efficient heat dissipation.
- 33 W (up to 3100 lm) for mounting into ceilings up to 3,5 height into the standard cell 60x60 cm, efficient substitute for luminous ceiling luminaires 4x18 W.
 - 40 W (up to 3800 lm) for mounting into ceilings up to 5 m height or in the utilities with strict requirements for illumination.

ADVANTAGES

- Nichia LEDs (Japan)
- High CRI >80
- Minimum percent flicker, less than 1%
- Textured or opal diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Excellent price
- Lifetime over 50,000 hours

APPLICATIONS

- Administrative and office buildings
- Public institutions
- Educational institutions
- Medical centers
- Trade floors
- Halls and corridors



SPECIFICATIONS



Modification with textured diffuser		40 W	33 W
Product code		LE-UOP-03-050-0485-20C LE-UOP-03-050-0459-20N LE-UOP-03-050-0460-20W	LE-UOP-03-040-0484-20C LE-UOP-03-040-0178-20N LE-UOP-03-040-0179-20W
Luminous flux, (lm)	Color temperature, (C)	4100 lm	3500 lm
	Color temperature, (N)	4000 lm	3400 lm
	Color temperature, (W)	3900 lm	3300 lm
Modification with opal diffuser			
Product code		LE-UOP-03-050-0562-20C LE-UOP-03-050-0461-20N LE-UOP-03-050-0462-20W	LE-UOP-03-040-0521-20C LE-UOP-03-040-0182-20N LE-UOP-03-040-0183-20W
Luminous flux, (lm)	Color temperature, (C)	4000 lm	3400 lm
	Color temperature, (N)	3900 lm	3300 lm
	Color temperature, (W)	3800 lm	3200 lm
General information			
Number of LEDs, pcs		80 pcs	64 pcs
Power, W		40 W	33 W
Dimensions of a luminaire, (LxWxH) mm		598x592x40 mm	598x592x40 mm
Dimensions of a package, (LxWxH) mm		605x605x70 mm	605x605x70 mm
Weight, kg		3,1 kg	3,1 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz	
Light distribution classification		P (direct light)	
Light distribution curve		Cosine	
CRI		>80	
Percent flicker,%		1%	
Power factor		0,9	
Electric safety classification		I	
IP rating		20	
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)	
Temperature range, C		0 ÷ +45°C	
Lifetime, hours		50 000 hours	
Warranty period, years		5 years	

Standard modification: housing color – white, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> - Backup Power Supply Unit (BPSU): LE 0274

OFFICE BULKHEAD

Efficient substitute for fluorescent ceiling luminaires 2x18 W, 2x36 W, 4x36 W.

GENERAL INFORMATION

Luminaires of OFFICE series are designed for bulkhead mounting.

- Metal housing, efficient heat dissipation.
- 16 W (up to 1600 lm) efficient substitute for fluorescent ceiling luminaires 2x18 W.
- 33 W (up to 3100 lm) efficient substitute for fluorescent ceiling luminaires 2x36 W.
- 66 W (up to 5900 lm) efficient substitute for fluorescent ceiling luminaires 4x36 W.

ADVANTAGES

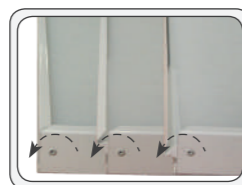
- Nichia LEDs (Japan)
- High CRI >80
- Minimum percent flicker, less than 1%
- IP20
- Easy mounting
- Textured or opal diffuser
- No specific requirements for maintenance
- No specific requirements for disposal
- Lifetime over 50,000 hours

APPLICATIONS

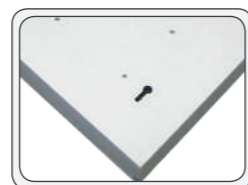
- Administrative and office buildings
- Public institutions
- Educational institutions
- Medical centers
- Trade floors
- Halls and corridors



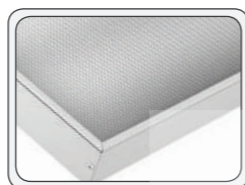
Hinged end cap for easy mounting



Dedicated holes in the housing for fast and reliable mounting



Metal housing



SPECIFICATIONS

Modification with textured diffuser		66 W	33 W	16 W
Product code		LE-UOP-03-080-0487-20C	LE-UOP-03-040-0486-20C	LE-UOP-03-020-0517-20C
		LE-UOP-03-080-0202-20N	LE-UOP-03-040-0194-20N	LE-UOP-03-020-0455-20N
		LE-UOP-03-080-0203-20W	LE-UOP-03-040-0195-20W	LE-UOP-03-020-0456-20W
Luminous flux, (lm)	Color temperature, (C)	6100 lm	3400 lm	1600 lm
	Color temperature, (N)	6000 lm	3300 lm	1500 lm
	Color temperature, (W)	5900 lm	3200 lm	1400 lm
Modification with opal diffuser		66 W	33 W	16 W
Product code		LE-UOP-03-080-0591-20C	LE-UOP-03-040-0563-20C	LE-UOP-03-020-0561-20C
		LE-UOP-03-080-0206-20N	LE-UOP-03-040-0198-20N	LE-UOP-03-020-0457-20N
		LE-UOP-03-080-0207-20W	LE-UOP-03-040-0199-20W	LE-UOP-03-020-0458-20W
Luminous flux, (lm)	Color temperature, (C)	6000 lm	3300 lm	1500 lm
	Color temperature, (N)	5900 lm	3200 lm	1400 lm
	Color temperature, (W)	5800 lm	3100 lm	1300 lm
General information				
Number of LEDs, pcs		128 pcs	64 pcs	32 pcs
Power, W		66 W	33 W	16 W
Dimensions of a luminaire, (LxWxH) mm		1198x592x40 mm	1198x292x40 mm	598x295x40 mm
Dimensions of a package, (LxWxH) mm		1210x605x70 mm	1210x305x70 mm	605x605x70 mm
Weight, kg		5,9 kg	3,5 kg	2,5 kg
Voltage, V/ Frequency, Hz		175-260 V/50 Hz		
Light distribution classification		P (direct light)		
Light distribution curve		Cosine		
CRI		>80		
Percent flicker,%		1%		
Power factor		0,9		
Electric safety classification		I		
IP rating		20		
Climatic modification		NF 4 (moderate and cold climate; indoor, with heating and AC systems)		
Temperature range, C		0 ÷ +45°C		
Lifetime, hours		50 000 hours		
Warranty period, years		5 years		

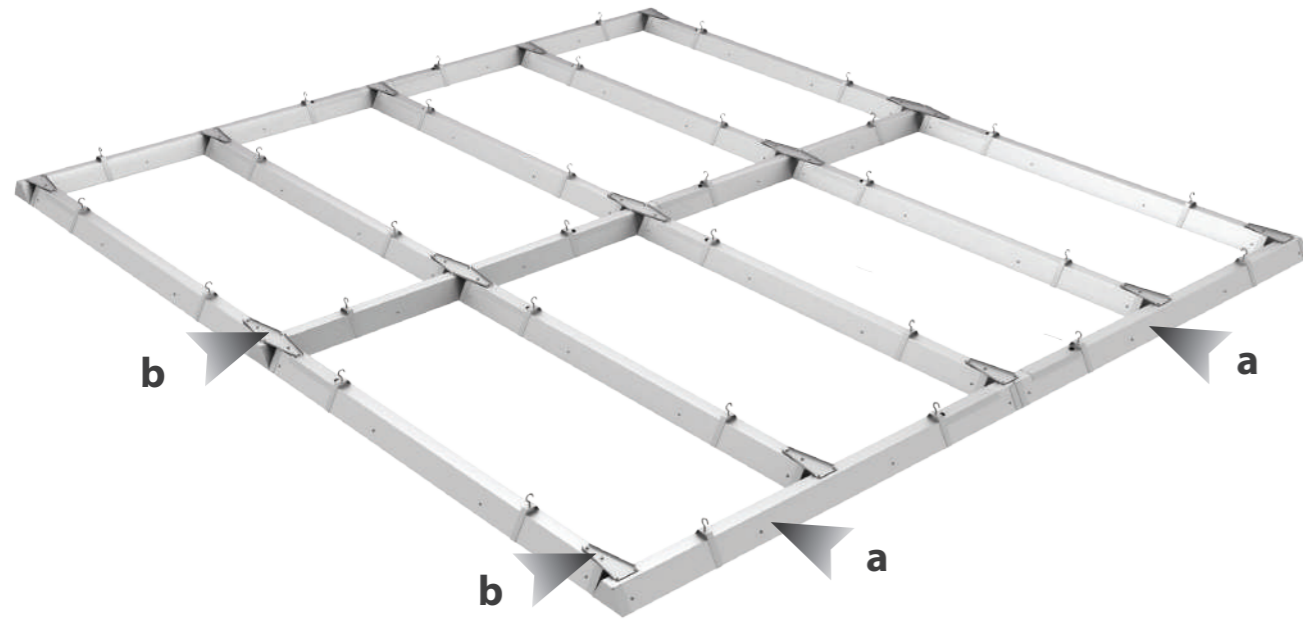
Standard modification: housing color – white, diffuser – textured, CCT – N.

OVERALL DIMENSIONS, mm	PACKAGE DIMENSIONS, mm	COSINE LIGHT DISTRIBUTION CURVE	OPTIONS
			<p>On order:</p> <ul style="list-style-type: none"> – Backup Power Supply Unit (BPSU): LE 0274



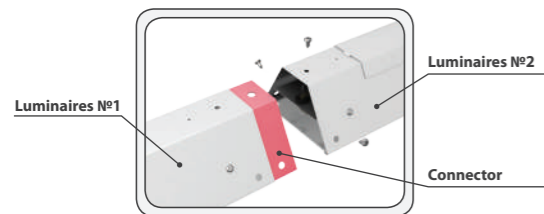
RETAIL ASSEMBLY

Possible assembly options for LED luminaires of the RETAIL series.

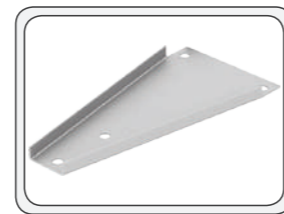


Auxiliaries for assembly of LED luminaires of the RETAIL series:

a One line can be built from IN-BETWEEN LED luminaires of the RETAIL series using a special **edge connector** that comes with the IN-BETWEEN luminaires by default.



b Assembly in the form of **Intersection and Angle** can be done by using an **angle connector**; product code: LE 0598

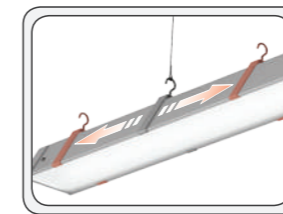


RETAIL FEATURES

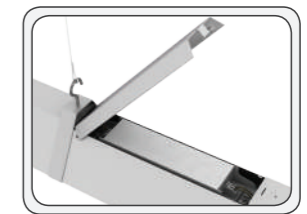
Possible assembly options for LED luminaires of the RETAIL series.



Mounting of RETAIL luminaires is easy due to the lengthways adjustment of the suspension elements. Suspension hooks can travel along the whole length of one luminaire. Due to this adjustment luminaires of the RETAIL series can be suspended using existing suspension elements.



It is easy to maintain luminaires of the RETAIL series as PSUs can be replaced without the need to dismount the luminaire itself.

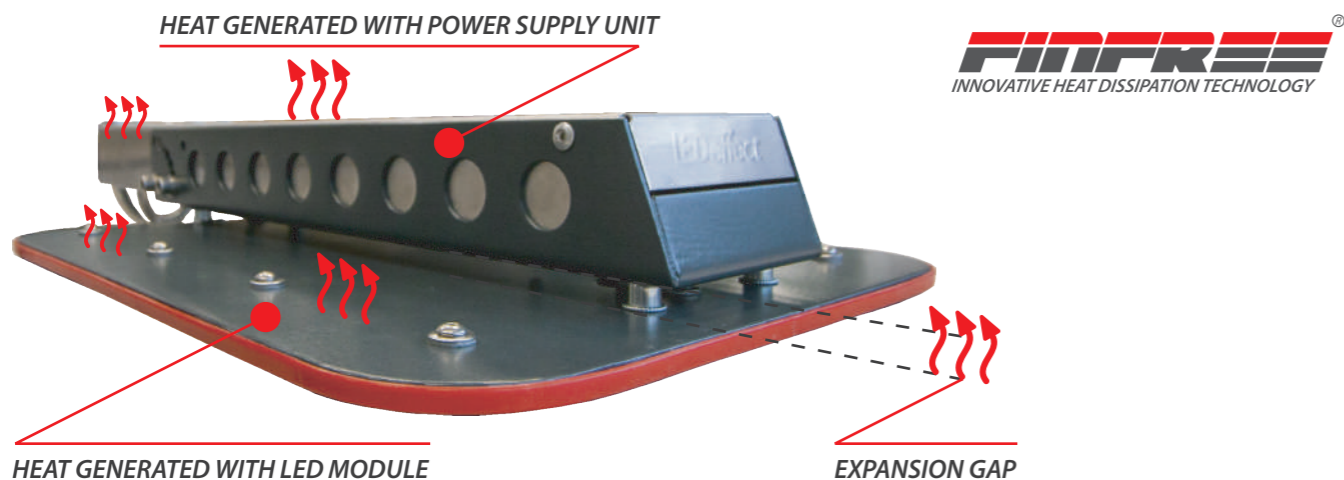


KEDR (FEATURES)



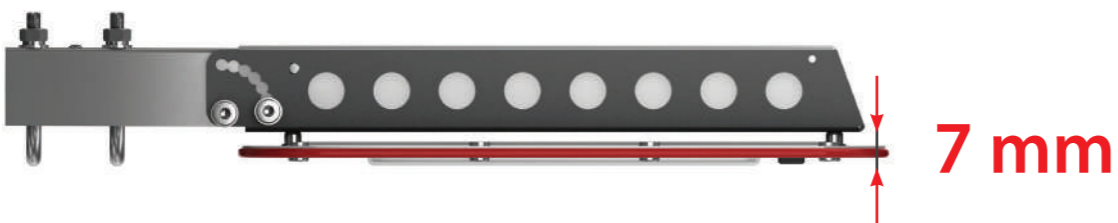
FINFREE – INNOVATIVE **FINFREE** HEAT DISSIPATION TECHNOLOGY

FINFREE technology has been developed by «LED-Effect» Ltd. specialists and has no analogue in Russia. **FINFREE** technology allows for effective heat dissipation from LEDs and inner electronic components of the luminaire by means of the plate heater unit composed of specially matched heat-conductive materials. To improve the luminaire lighting management the power supply unit is separated from the LED module housing.



SLIM HOUSING

KEDR LED luminaires are provided with the slimest housing within the professional lighting class. The housing is only 7 mm thick!



KEDR (FEATURES)



KEDR LED luminaires features.

LEDS

NICHIA, CREE, OSRAM LEDs are used for the luminaire.

OPTICS

LEDIL additional optics is implemented.

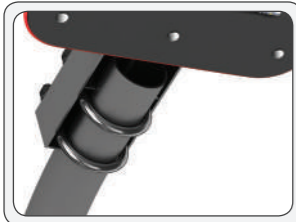
EDGING

It is made of special organosilicon rubber.



KEDR (FEATURES)

KEDR LED luminaires features.



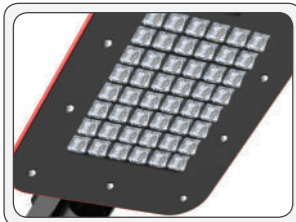
RELIABLE MOUNTING

KEDR UCO LED luminaires are supplied with cross functional brackets subject to tilt angle adjustment to be mounted onto standard lighting poles of the diameter up to 48 mm. U-shaped metal bracket braces ensure reliable and fast mounting of the luminaire.



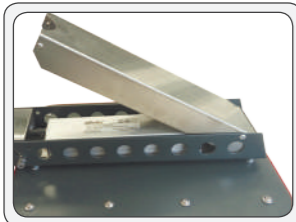
FLEXIBILITY

KEDR UCO LED luminaires are completed with cross functional brackets which allow for mounting both onto standard lighting poles and onto walls, it is also possible to adjust the luminaire tilt angle.



HIGH EFFICACY

High quality and reliable NICHIA, OSRAM, CREE series are used for KEDR LED luminaires which contributes into 130 lm/W luminous efficacy. The new technology of implementing additional optics is applied for the luminaires. This allows to cut losses for an additional diffuser.



EASY MAINTENANCE

In KEDR LED luminaires the power supply unit is available to be replaced without the luminaire dismounting. All the connections are provided with ingress-proof (IP67) screw connectors. No additional tools needed to connect a new power supply unit.



EASY CONNECTION

All KEDR LED luminaires are completed with the reliable plug for connecting to supply mains 220 V. The plugs have IP67 ingress protection.

KEDR (AUXILIARIES)

Comfortable light environment.

COLOUR TEMPERATURES

As standard KEDR luminaires are supplied with LEDs of 5000K colour temperature - cool white light. Optionally LEDs of neutral white or warm white colour can be provided.



5000 K

C – cool white light,
standard modification



4000 K

N – neutral white light (daylight),
Product code for order: **LE1096**

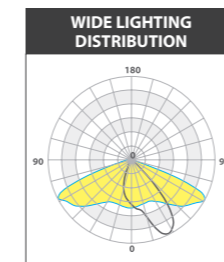


3000 K

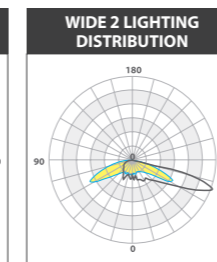
W – warm white,
Product code for order: **LE1097**

ADDITIONAL OPTICS

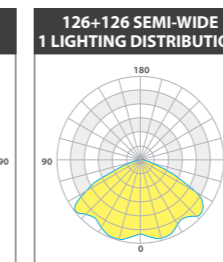
To create a required light environment on various sites KEDR luminaires can be equipped with additional optics.



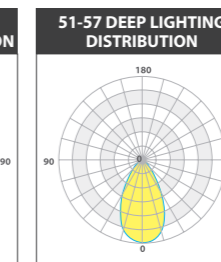
Product code: **LE1095**



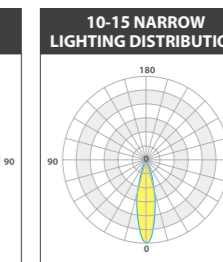
Product code: **LE1094**



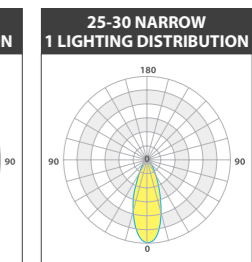
Product code: **LE1093**



Product code: **LE1090**



Product code: **LE1091**



Product code: **LE1092**



KEDR (AUXILIARIES)

UCO bracket.

Optionally KEDR UCO luminaires can be supplied with cast aluminium brackets designed for mounting luminaires onto standard street lighting poles of the diameter up to 48 mm.

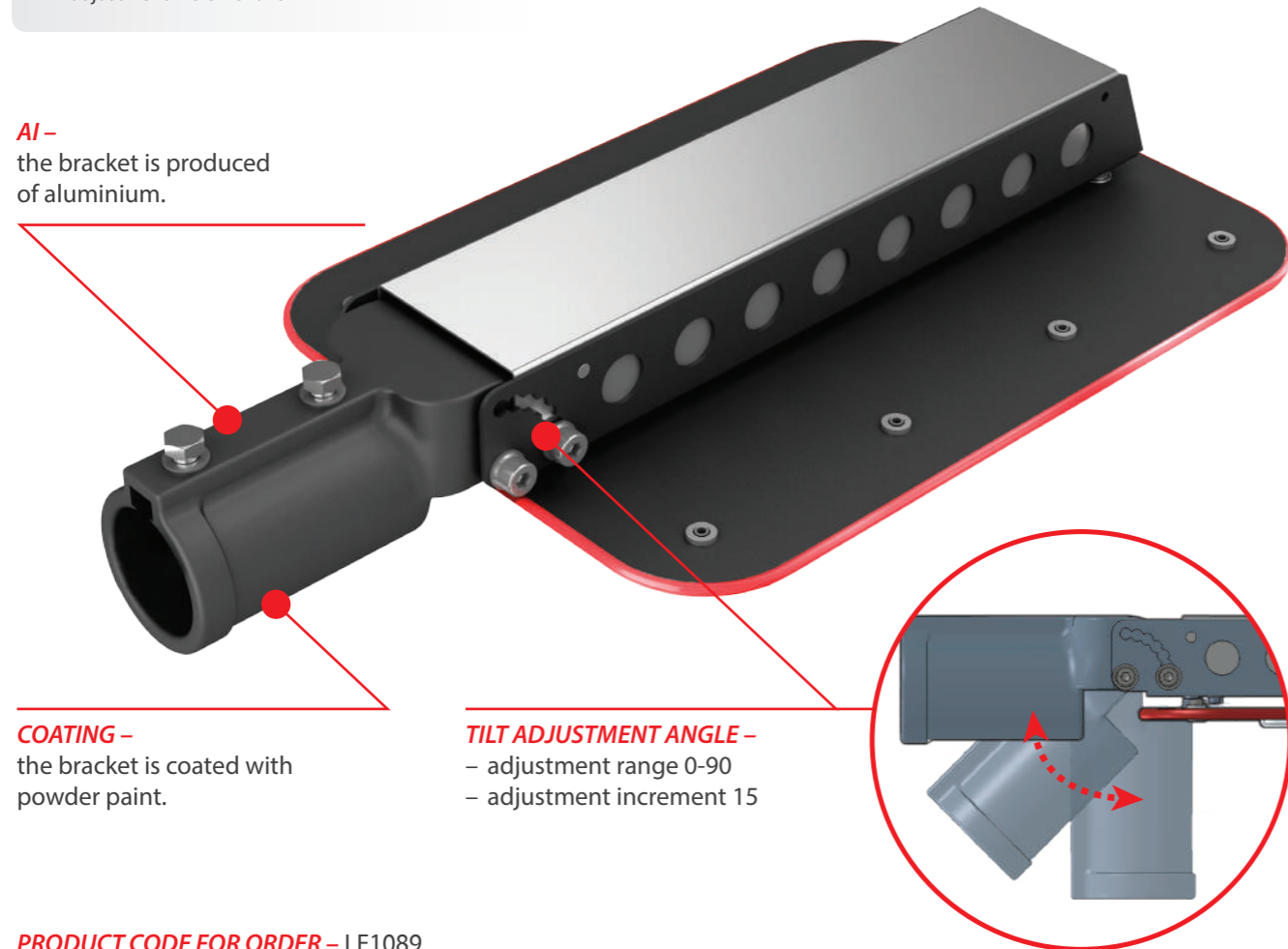
Bracket allows for the luminaire tilt angle adjustment:

- adjustment range 0-90°
- adjustment increment 15°

AI-
the bracket is produced of aluminium.

COATING -
the bracket is coated with powder paint.

TILT ADJUSTMENT ANGLE -
- adjustment range 0-90
- adjustment increment 15



PRODUCT CODE FOR ORDER – LE1089.



KEDR (AUXILIARIES)

USI bracket.

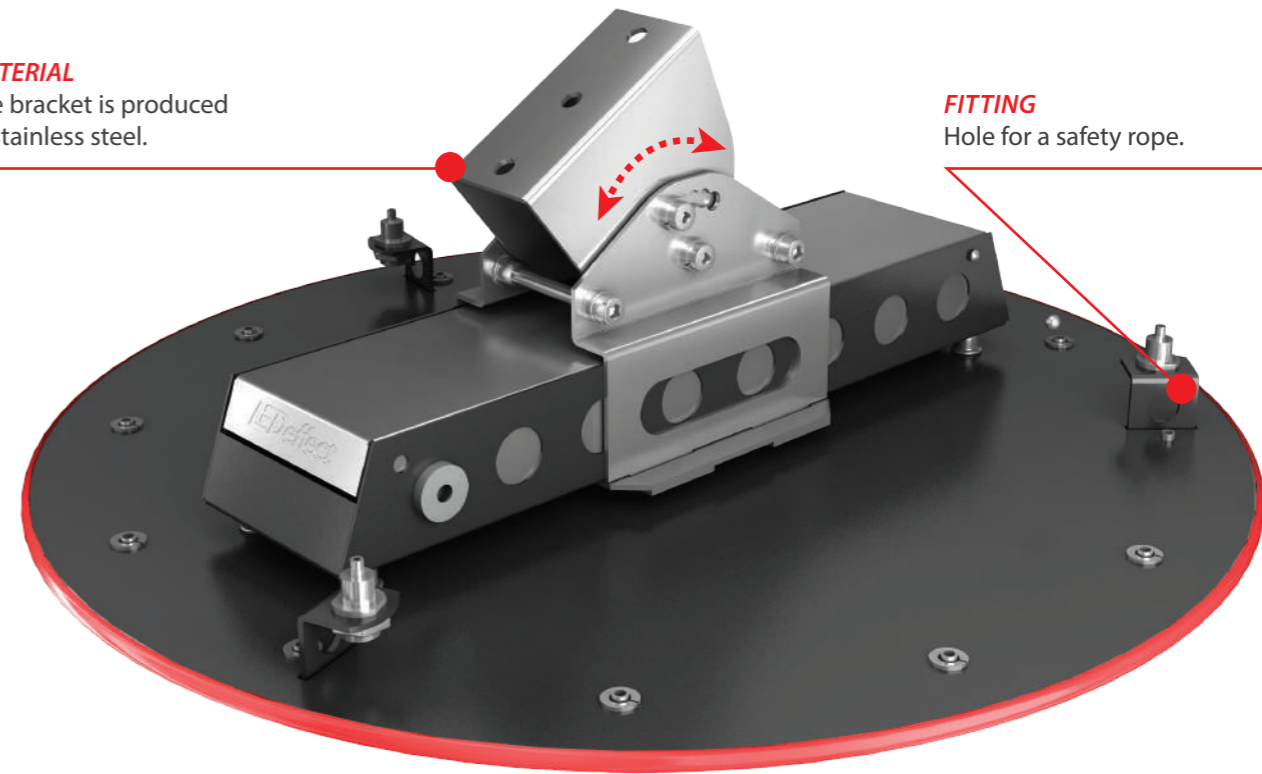
Optionally KEDR USI luminaires can be supplied with brackets to be mounted onto walls.

Bracket allows for the luminaire tilt angle adjustment:

- adjustment range 0-60°
- adjustment increment 15°

MATERIAL
The bracket is produced of stainless steel.

FITTING
Hole for a safety rope.



PRODUCT CODE FOR ORDER – LE1110.

EPSU

External power supply unit, product code: LE1025.

GENERAL INFORMATION

External power supply is used to connect the LED lamps series KEDR access which is difficult. External power supply for easy maintenance and connection, and «EPSU» has protection systems lamps overvoltage in case of lightning hit.

IP 66

The removable power supply unit is manufactured on the basis of the electrical cabinet with IP66 ingress protection.

**-60
+50**

The removable power supply unit can operate with in wide range of ambient temperatures.



The removable power supply unit allows to decrease significantly the luminaire weight as well as the total weight of the structure they are installed onto.



The removable power supply unit is placed inside tamper-proof metal cabinet coated with powder paint.



2-10 luminaires of 100-200 W power can be connected to one removable power supply unit.



PRODUCT CODE FOR ORDER – LE-1025.



You can handle the removable unit at the distance up to 50 meters from the luminaire.



EPSU

External power supply unit, product code: LE-1025.

Weatherproof design.

The device is placed inside the metal cabinet IP66.

Reliability.

EPSU is provided with high quality power supply units.

Connected load.

2 - 10 KEDR luminaires can be connected to one EPSU.

Safety.

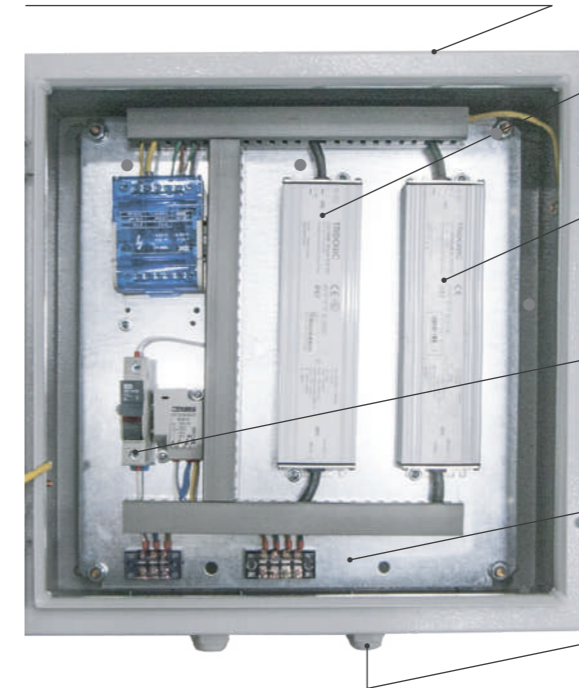
EPSU is equipped with the special protective module against dramatic electric kicks and lighting discharges. There is also installed quick acting safety fuse.

Remote operation.

You can handle EPSU at the distance up to 50 meters from luminaires.

Easy connection.

The unit is completed with gland quick-lock PG inlets.



APPLICATIONS:

- Highways
- Airports
- Industrial sites
- Warehouses
- Hangars
- Passenger stations
- Railroads

TECHNICAL SPECIFICATIONS:

Product code	LE-1025
Weight, kg	25 kg
IP rating	IP66
Climatic modification	NF1
Lifetime, hours	50 000 hours
Overall dimensions, (LxWxH), mm	600x246x687 mm
Warranty period	3 years

CUBE

Decorative suspended lamp-shade available for logo promotion.

GENERAL INFORMATION

«CUBE» is a decorative suspended lamp-shade made of metal, colored in accordance with RAL scale as per request of the customer. Any logo or pattern can provided by the customer can be placed on the surface. The logo or the pattern are carved with the laser machine. «CUBE» is an additional option for recessed luminaires of «OFFICE» series sized 597x597x40 mm. «CUBE» is completed with suspension elements: cord – 4 pieces, each 2 m long, fitting. The suspended decorative lamp-shade «CUBE» is only available in white color.

APPLICATIONS:

- negotiations rooms
- ceremonial premises
- office premises

OVERALL DIMENSIONS:

- LxWxH 652x652x232 mm

PRODUCT CODE FOR ORDER

- LE-0830

EXPANSION

Expansion for luminaires of «GRILYATO DOMINO» series.

GENERAL INFORMATION

The expansion is applied when luminaires «GRILYATO DOMINO» have to be mounted into the ceilings of «GRILYATO» type with cells sized 75x75 mm, 150x150 mm and over. The expansion is made of metal and has powder coating of white color.

HOW TO PLACE THE ORDER:

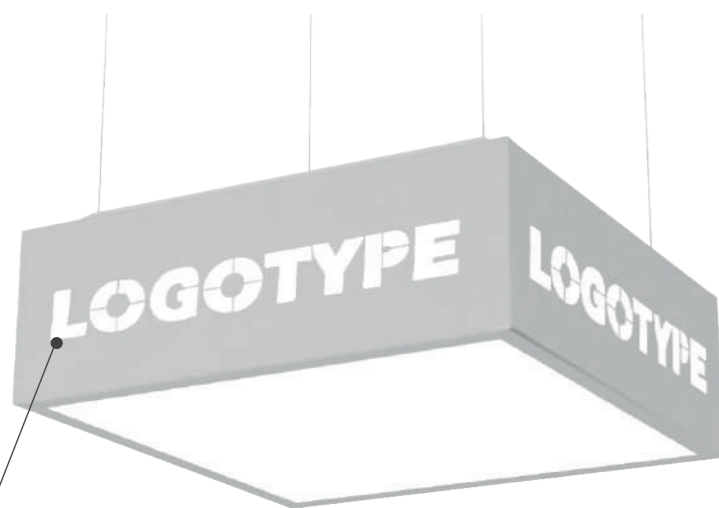
- The order must contain information on size of cells in the ceiling of «GRILYATO» type meant for mounting
- Additionally the required color of the expansion according to RAL scale to be requested

PRODUCT CODE FOR ORDER

- LE-0829



«GRILYATO DOMINO» luminaire is mounted into the ceiling of «GRILYATO» type with cells sized 75x75 mm using the expansion.



A logo is carved in the housing of lamp-shade from 4 sides with the laser machine. The pattern provided by the customer can also be placed on the housing of lamp-shade. The logo/pattern must be delivered in curves and in ai/eps/cdr formats.



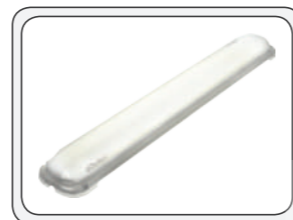
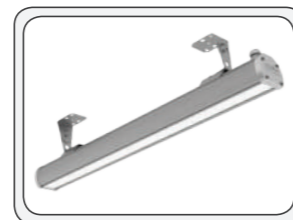
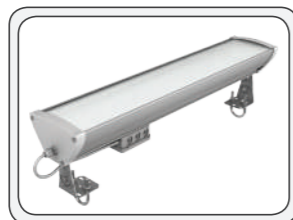
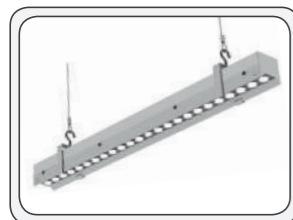
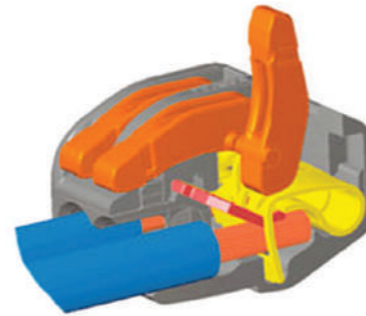
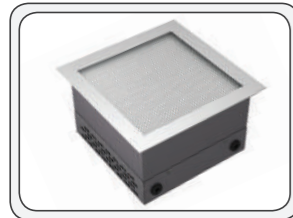
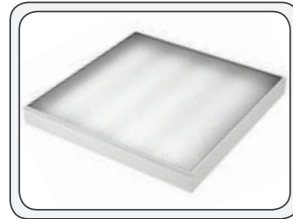
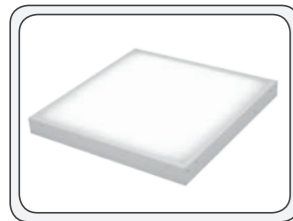
EASY TO CONNECT



WAGO quick-lock connectors for easy and fast connection of LED-Effect LED luminaires to the mains.

FEATURES

- There is allocated connection slot for every connector
- The connectors do not get damaged
- Accidental-touch protection is ensured
- Guaranteed lasting lifetime of the connectors



EASY TO OPERATE



«LED-Effect» THINK ABOUT OUR CUSTOMERS BY IMPLEMENTING CONVENIENT SERVICES:

Custom design of LED equipment for major account customers

IES library for the assortment, required for work in Dialux

Products availability at stock

Arranging training for the customers

Informational support: catalogues, samples, booths, participation in exhibitions and shows of our partners

Effective projects defense program

WE ARE LOOKING FORWARD TO COOPERATE!

WE MAKE IT EASY

WE MAKE IT EASY



USEFUL INFORMATION

Useful information on the documents which regulate or refer lighting engineering industry and LED lighting in particular.

THE SECTION CONTAINS:

- LIGHTING CONCEPTS
- IP INGRESS PROTECTION
- CLIMATIC MODIFICATION

LIGHTING CONCEPTS

Luminous flux is the total emission power of a light source, which is estimated by light sense of a human eye and measured in lumens – lm. This value is applied for light sources mostly. LED luminaire is the final product consisting of LEDs and optics, therefore for LED luminaires the value of luminous flux (F) is normally indicated. The luminous flux is measured at output from the luminaire with regard to losses for electrics and optics.

Luminous intensity (I) – Candela (cd)

Luminous source emits the luminous flux (F) of various intensity. Intensity of directed light emission is called luminous intensity I. This value is usually indicated for halogen lamps and LED chips.

Luminance (E) – Lux (lx)

Luminance shows emitted luminous flux to illuminated square area ratio. Luminance is equal 1 lx provided luminous flux is distributed uniformly over the square area 1 m². It is demanded to hold to this value for illumination of different objects. For example, at the working desk it is regulated as 400-500 lx depending upon difficulty of works.

Luminous efficacy (η) – energy efficacy (lm/W)

This is an essential characteristics of luminous sources and LED luminaires. It is estimated as ratio of luminous flux from luminous source or LED luminaire to supplied power.

Pulsation factor (Pf) – (%)

It characterizes in % the relative pulsation depth of illumination in the fixed point of the space. For most visual works the Pf is regulated not higher than 20%, for computer-located facilities – not higher than 5%. Pulsation factor (Pf) increase makes visual performance go down and enhances fatigability.

USEFUL INFORMATION



Color temperature (Ct) is stated in Kelvin scale of temperature (K). This characteristics defines the color value (warm, neutral (daylight), cool) of the space illuminated with a luminous source. Ct is approximately equal the temperature of heated object which features the color as the defined luminous source. Several types of color temperatures are specified:

- Warm white light up to 3600 K
- Neutral white light (daylight) from 3600 K up to 5300 K
- Cool white light over 5300 K

Color rendering index (Ra or CRI)

Ra characterizes a degree of color rendition of different materials when illuminated with the luminous source compared to the model luminous source. Hence the higher this factor is, the better colors perception of the objects illuminated with artificial luminous sources.



IP INGRESS PROTECTION

IP X X

"0" – no protection

"1" – protection against contact with solid objects bigger than 50 mm (for example, unintentional hand touch)

"2" – protection against contact with solid objects bigger than 12 mm (for example, fingers)

"3" – protection against contact with solid objects bigger than 2,5 mm (for example, tool, screw)

"4" – protection against contact with solid objects bigger than 1 mm (for example, small tool, thin wire)

"5" – dust protection (no harmful dust)

"6" – full dust intrusion protection

"0" – no protection

"1" – vertical water splashes protection (condensation)

"2" – 15 degrees vertical water splashes protection

"3" – 60 degrees vertical water splashes protection

"4" – all directions water splashes protection

"5" – all directions water sprays protection

"6" – full protection against splashes and sprays similar to the sea ride-up

"7" – brief diving protection

"8" – specifically conditioned lasting diving protection

CLIMATIC MODIFICATION



Name	Indication	Temperature value in operation, C			
		Operative		Limit value	
		High value	Low value	High value	Low value
For moderate climate areas	N	+ 40	- 40	+ 45	- 50
For cold climate areas	C	+ 40	- 40	+ 45	- 60
For moderate and cold climate areas	NF	+ 40	- 60	+ 45	- 60
For tropical climate areas	T	+ 45	- 10	+ 55	- 20
For all climatic areas inland except for cold ones (general climatic)	O	+ 45	- 60	+ 55	- 60

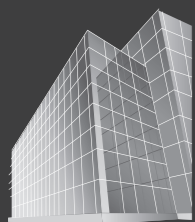
"1" – to be used in the open air (influence of total climatic factors which are specific in this microclimatic area)

"2" – to be used under shelter or in the facilities (volumes) where temperature and air humidity fluctuations do not differ essentially from the ones in the open air, these spaces should also have relatively free outdoor air access

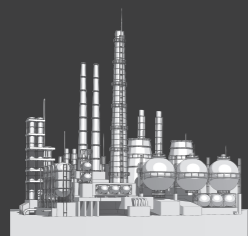
"3" – to be used in closed spaces naturally ventilated, with no artificial-adopted climatic conditions, with less temperature and air humidity fluctuations, less sand and dust effects than in the open air (in metal, heat-insulated, stone, concrete, wooden facilities)

"4" – **to be used in the facilities with artificial-adopted climatic conditions (in closed heated or cooled and ventilated underground spaces)**

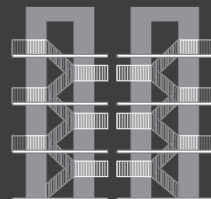
"5" – to be used in the facilities with high humidity (underground spaces with no heating and ventilation such as mines, marine rooms where humidity can pertain on the walls and ceiling for long time)



**INTERIOR
LIGHTING**



**INDUSTRIAL
LIGHTING**



**UTILITY
LIGHTING**



**STREET
LIGHTING**



**SHOP
LIGHTING**

