

EASY | LED
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MISS NOTHING.

BUBBO[®]

FLOODLIGHT SYSTEM

BUBO®

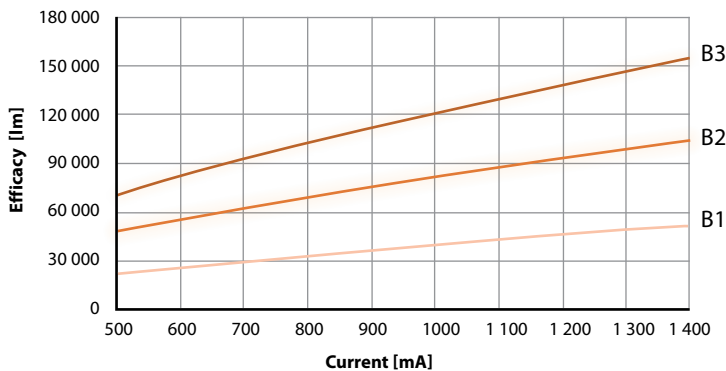
UP TO 1,5 KW
UP TO 173 000 LM

BUBO® PRODUCT FAMILY

Versions B1, B2 and B3 class LED floodlights

Power up to 1 540 W
Light output up to 173 000 lm
Efficacy up to 146 lm/W

FLOODLIGHT EFFICACY



Light Efficacy

The LED technology available in the Bubo™ series meets the strictest TLCI (Television Lighting Consistency Index) requirements for comprehensive high-definition broadcasting with highest quality motion reproduction using flicker-free technology.

The TLCI is similar to the CRI but describes the color rendering for TV cameras.

	CRI >70	CRI >80	CRI >90	
5 700 K			o	
5 000 K	x	x		x = standard
4 000 K	x	o		o = option
3 000 K	o			

TLCI

Television Lighting Consistency Index of over 90 available

Flicker Free

Flicker Free dimming down to 140 mA level.

With PWM technology down to 15 mA (400 - 500 Hz).

Materials

Light engine: Die-casted aluminium chassis with shot-blasted, textured body

Gear unit: Die-casted aluminium chassis with surface texturing, die-casted aluminium lids.

Mounting and frame components: Stainless steel, delta treated screws

Glass: Extra clear thermally hardened glass and stainless steel frame

Optics

Standard symmetrical optics with 12, 34, 70 and 110 degree light distribution beam. Flood light optics UP-F.

IP- and IK-classes IP66, IK08

Protection class CL I

Luminaire ambient

temperature range Up to -40...+60°C (95% RH)

Control

DALI as standard, optional 1–10 V available, also compatible with wide range of intelligent control methods

Mains voltage

230 VAC (operation voltage range:198–264 VAC)

Frequency 50/60 Hz

Power factor PF > 0,95

Surge protection

Standard 4 kV/6 kV - L-N/L-GND, N-GND

Thermal protection

Standard bi-funtional protection with active power adjustment function.

Other

Standard intelligent inrush current control system

Gradual turn-on process in cold environments for protection of LED components.

Installation

Flexible with a range of mounting accessories. Precision aiming device available.

Guarantee 5 years

Additional components / Mounting components

Alternative installation methods for the gear unit
Extension cable kits and long-distance cabling packages available

Surge protection 20kV with two level protection. Protective components designed specially for devices installed in high position.

PRODUCT WEIGHT INFORMATION (KG)

	Rack with light engines		Bracket		Gear unit	
	Stadion		Area	Hall	Unit	Mounting
Bubo B1	9,4 kg		3 kg			
Bubo B2	22,2 kg	8,8 kg	9 kg	6,3 kg	7,6 kg	0,5 kg
Bubo B3	33,3 kg	8,8 kg	9 kg	6,3 kg	8,7 kg	0,5 kg
Total weight						
Bubo B1G	16 kg					

BUBO® MODELS

Model B1

Driving current [mA]	500 mA	700 mA	850 mA	1 000 mA	1 200 mA	1 400 mA
LEDs	120					
Input power [W]	180 W	251 W	305 W	360 W	437 W	514 W
Luminous flux [lm]	26 300 lm	34 800 lm	40 400 lm	45 900 lm	52 300 lm	58 000 lm

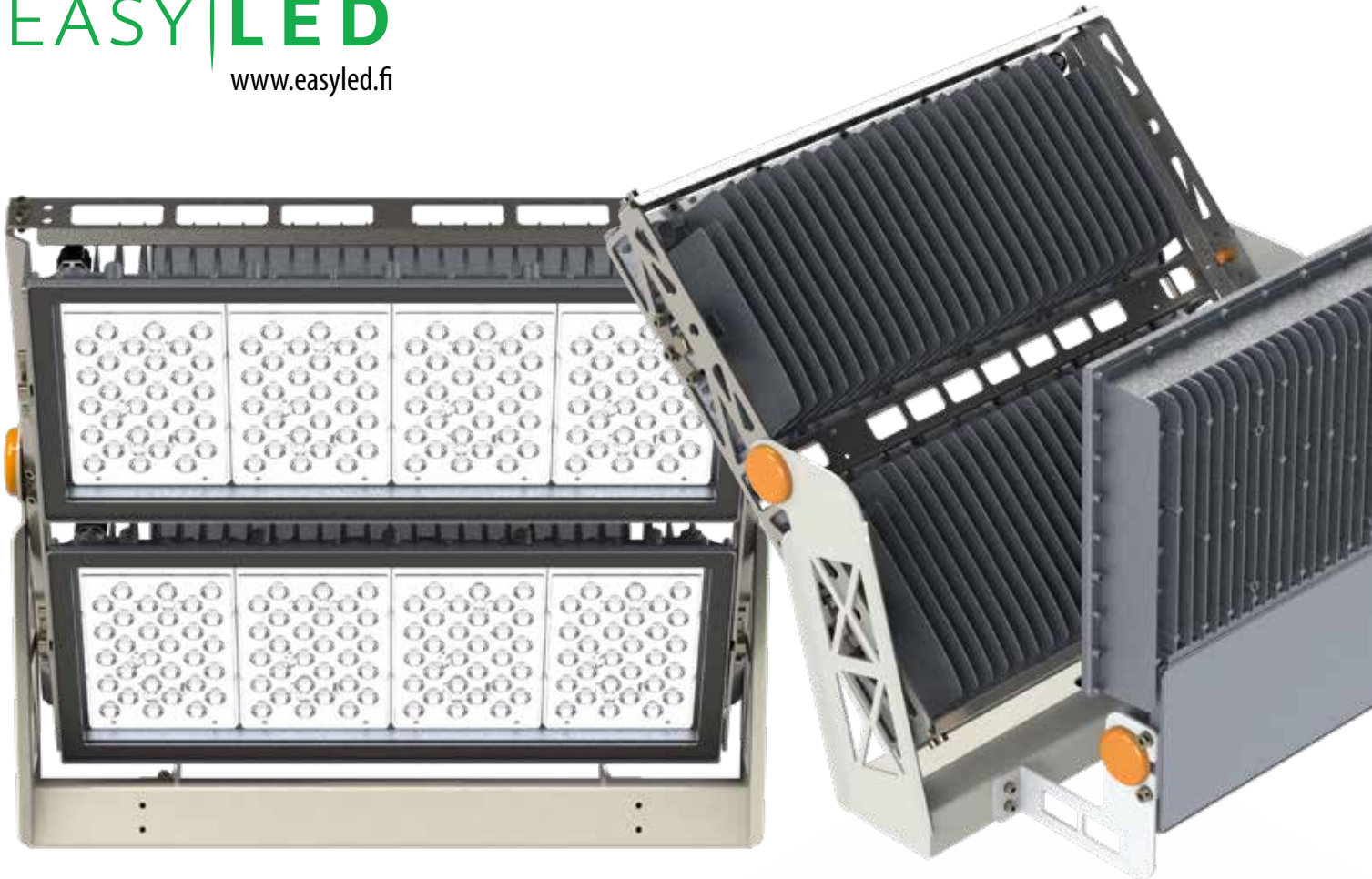
Model B2

Driving current [mA]	500 mA	700 mA	850 mA	1 000 mA	1 200 mA	1 400 mA
LEDs	240					
Input power [W]	360 W	502 W	610 W	720 W	874 W	1 027 W
Luminous flux [lm]	52 600 lm	69 500 lm	80 800 lm	91 700 lm	104 500 lm	116 000 lm

Model B3

Driving current [mA]	500 mA	700 mA	850 mA	1 000 mA	1 200 mA	1 400 mA
LEDs	360					
Input power [W]	540 W	753 W	915 W	1 080 W	1 310 W	1 540 W
Luminous flux [lm]	78 800 lm	104 000 lm	121 000 lm	137 000 lm	156 000 lm	173 000 lm





BUBO® | MISS NOTHING.

A perfect scoring position in front of a cheering audience, a demanding cargo loading job for the last boat of the night, or a large warehouse area under your watchful eyes - BUBO® lights up your success. BUBO® lighting system, designed for illuminating large areas, is the perfect choice for stadiums and arenas, ports, storage areas, airports and cranes. Also applicable to indirect lighting. Easy LED's lighting solution and design know-how guarantees you illumination that meets your needs.

BUBO® the biggest and the brightest: The lighting system is designed for large area illumination. The luminaires are available in one, two or three module systems and offer unbeatable light efficacy.

BUBO® is intelligent: Intelligent lighting control methods, DALI-system (standard). Dynamic control and management; instant ON/OFF.

BUBO® is cost-effective: The luminaire is assembled in a tough die-casted aluminium chassis and it requires little maintenance and has a long lifespan of several decades.

BUBO® is TV-compatible: The uniform, flicker-free light is compatible with current broadcasting requirements, which is especially important in sports broadcasting.

BUBO® -LIGHTING SYSTEM LIFESPAN WITH GEAR UNIT (standard)

	AREA					
Driving current [mA]	500	700	850	1000	1200	1400
LED Module CRI72 L90B10, C10 [h]	>150 000			125 000	50 000	20 000
LED Module CRI72 L80B10, C10 [h]	>150 000				140 000	90 000
LED Module CRI82 L90B10, C10 [h]	>150 000		130 000	80 000	35 000	16 000
LED Module CRI82 L80B10, C10 [h]	>150 000				130 000	85 000

BUBO® -LIGHTNING SYSTEM LUMINAIRE AMBIENT TEMPERATURE WITH GEAR UNIT (standard)

Max Temperature outdoors	+60°C	+55°C	+50°C	+50°C	+45°C	+40°C
Max Temperature indoors	+55°C	+50°C	+45°C	+45°C	+35°C	+30°C
Min Temperature	-40°C					
Gear unit lifespan @ta25	>100 000					75 000

BUBO® -LIGHTING SYSTEM LIFESPAN WITH GEAR UNIT (standard)

	STADIUM					
Driving current [mA]	500	700	850	1000	1200	1400
LED Module CRI72 L90B10, C10 [h]	>150 000			110 000	30 000	14 000
LED Module CRI72 L80B10, C10 [h]	>150 000				110 000	75 000
LED Module CRI82 L90B10, C10 [h]	>150 000		115 000	60 000	24 000	12 000
LED Module CRI82 L80B10, C10 [h]	>150 000				105 000	65 000

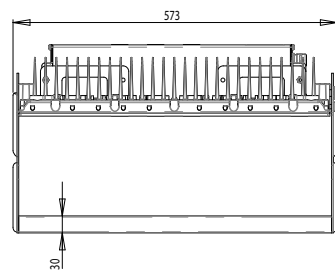
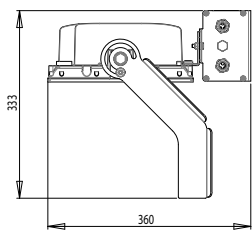
BUBO® -LIGHTNING SYSTEM LUMINAIRE AMBIENT TEMPERATURE WITH GEAR UNIT (standard)

Max Temperature outdoors	+65°C	+60°C	+60°C	+55°C	+45°C	+35°C*
Max Temperature indoors	+60°C	+55°C	+55°C	+50°C	+40°C	+30°C*
Min Temperature	-40°C					
Gear unit lifespan @ta25	>100 000					

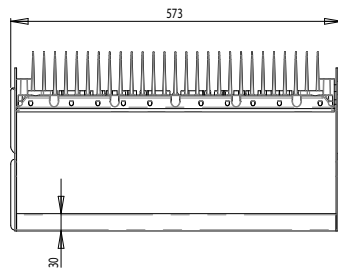
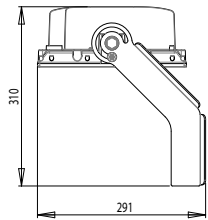
*Bubo is also suitable for indirect lighting. Different maximum operating temperatures for the 1400 mA version: +30°C outside and +25°C inside.

BUBO® DIMENSIONS

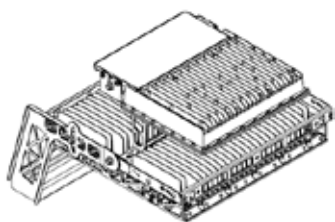
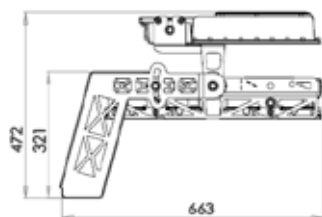
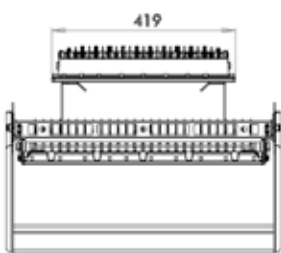
Bubo® B1G



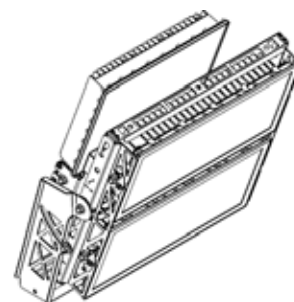
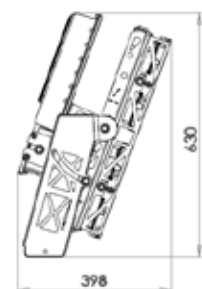
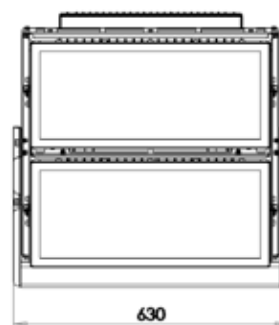
Bubo® B1



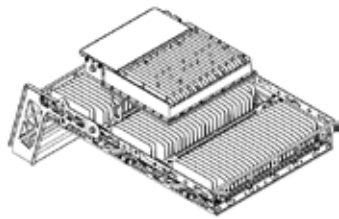
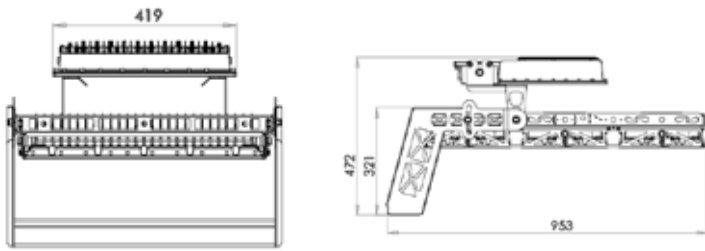
Bubo® B2 area



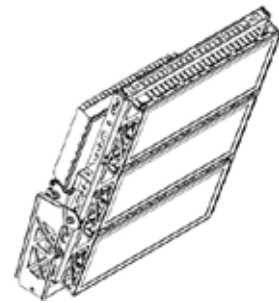
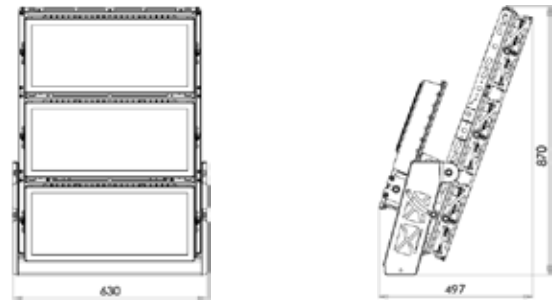
Bubo® B2 stadium



Bubo® B3 area

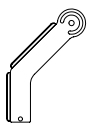


Bubo® B3 stadium

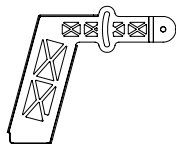


Bubo® brackets

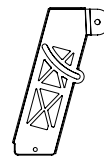
B1G/B1 bracket



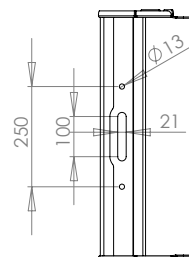
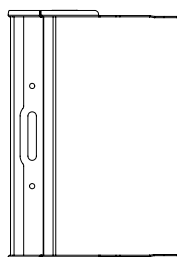
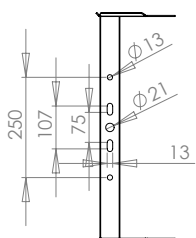
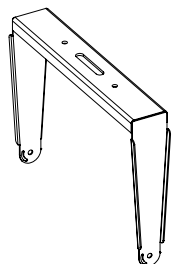
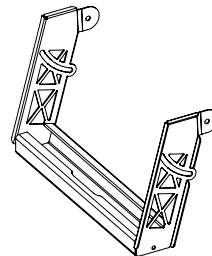
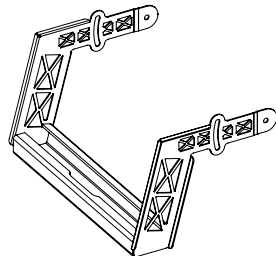
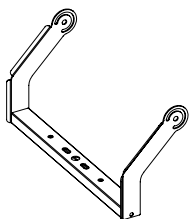
Area bracket



Stadium bracket



Hall bracket





BUBO®

FLOODLIGHT SYSTEM

EASY LED THE BRIGHT CHOICE

Investing in high quality LED lighting today will pay off far into the future. Easy LED Oy is a Finnish company specialised in manufacturing of energy efficient LED lighting systems for different environments, such as sports arenas, industrial premises, roads and areas as well as retail and office spaces.



EASY LED

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