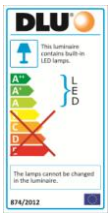
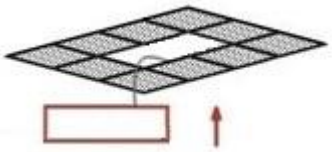
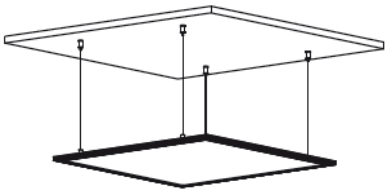
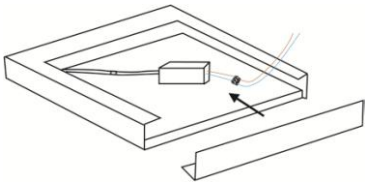
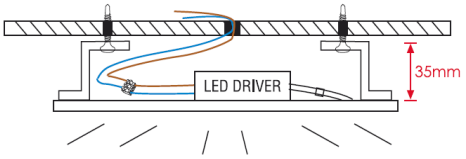
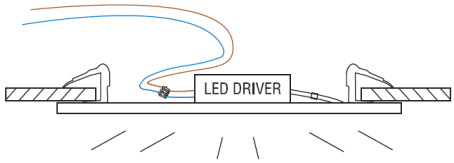
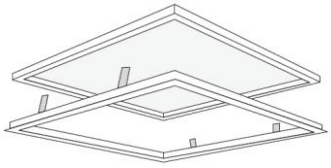
LED FIXTURES
PANEL 30x120cm
ECO BRIGHT

side = 1196x296 ±1mm
thickness = 10 ±1mm



RoHS
ECODESIGN product
Dir. 2009/125

MOUNTING OPTIONS	
False-ceiling frame	
Suspension optional kit code FLLKITSUSP	
Box for wall/ceiling optional kit code FLLKITWALL/1	
Ceiling optional kit code FLLKITPLAF	
Cut-out hole optional kit code FLLKITHOLE	
Cut-out hole frame optional kit code FLLKITMARK/1	

36W or 42W LED Panel, integrating an array of high power LEDs geared by an external constant current LED driver. Chassis in Aluminium, white painted finish for optimal heat-dissipation. Frontal diffuser 95% light transmittance rate. Mounting in false-ceiling frames 30x120cm. Other optional mounting for installation (by ordering the dedicated accessory kits):

- Suspension (kit code FLLKITSUSP): Brackets and suspending ropes in steel with clamps and fasteners, with adjustable buttons to fine-tune the horizontal positioning.
- Box for wall/ceiling (kit code FLLKITWALL/1): outer dimension after mounting = L 300 x W 1200 x H 50mm
- Ceiling (kit code FLLKITPLAF): Brackets 35mm tall.
- Downlighter in cut-out hole (kit code FLLKITHOLE): Springs for false-ceiling fixation.
- Metallic frame to mount the panel flush in a rectangular cut-out hole in the false ceiling (kit code FLLKITMARK/1)

Specifics of the whole system (LED Panel + LED power supply)

Operating electric conditions (set Panel + LED driver)	220-240V 50/60Hz
For indoor use only	
Recommended ambient temperature	
Insulating class	 (Notice: the LED Panel taken alone is )
Not Adjustable	
Useful lifetime	45.000h L70 (Ta=25°C)
Weight	2.8kg (LED driver included)
Lamp Survival Factor @6000h	0.90
Lamp Lumen Maintenance Factor @6000h	0.80
Lamp Lumen Maintenance Factor @35.000h	70% (L70)
Starting time	< 0.4s
Number of Switching cycles before failure	> 15.000
Warm-up time (to 95% of the steady-state luminous output)	< 2.0s
Failure rate @1000h	< 5.0%
Colour consistency	MacAdam ellipses step ≤ 6
Mercury and dangerous substances	Absent
UV and IR radiation	Absent

LED system classified EXEMPT (RISK GROUP 0) in application of the EN 62471: 2008 (CIE S009:2002) standards "Photobiological safety of lamps and lamp systems" and in application of the European Directive 2006/25 on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation).

Specifics of the set LED Panel + LED driver

CODE	V_{in}	P_{nom} (W)	PF	Luminous Flux (lm)	lm/W	T_c (K)	R_a	Beam Opening
FLLUW7VAE-1	220-240V 50/60Hz	36	≥ 0.90	3400	94.4	3000	> 80	120°
FLLUW7V2E-1	220-240V 50/60Hz	36	≥ 0.90	3400	94.4	4000	> 80	120°
FLLUV7VAE-1	220-240V 50/60Hz	42	≥ 0.90	3800	90.5	3000	> 80	120°
FLLUV7V2E-1	220-240V 50/60Hz	42	≥ 0.90	3800	90.5	4000	> 80	120°

Reference Standards: EN60598-1; CEI EN 62722-2-1; IEC62471; EN55015; EN61000-3-2; EN61000-3-3; EN61547; EN62493
European Directives: 2014/35; 2014/30; 92/31; 93/68; 2009/125 (Reg.no.1194/2012; 1428/2015); 2012/27 (Reg.no.874/2012); 2011/65; 2012/19

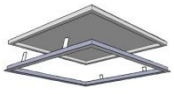
Characteristics of the LED Driver

PRI 220-240V 50/60Hz 0.22A max	**SEC** 27-42VDC 900mA ± 5%	T_a = 50°C T_c = 90°C	**L x W x H** 115 x 43 x 25
	SELV		

Ref. Standards: EN 61347-1; EN 61347-2-13; EN 62384; EN 62493; EN 55015; EN61000-3-2; EN 61000-3-3; EN 61547
European Directives: 2014/35; 2014/30; 92/31; 93/68; 2011/65; 2012/19

Accessories **36W model** **42W model** (to be separately ordered)	For **Dimmability by 1...10VDC signal**	Substitute the DLU driver with the dimmable driver model “DLC 142/1050-E-C2-1…10V” (code 9918344, ref 9918344) by ELT
	For **Permanent emergency autonomy 1h**	Add the KIT (Emergency unit + battery) model “emerLED 12-50V 3W 1h” (ref 9953061) by ELT
	For **Permanent emergency autonomy 3h**	Add the KIT (Emergency unit + battery) model “emerLED 12-50V 3W 3h” (ref 9953062) by ELT
website: http://www.elt.es/home/i-inicio.html		

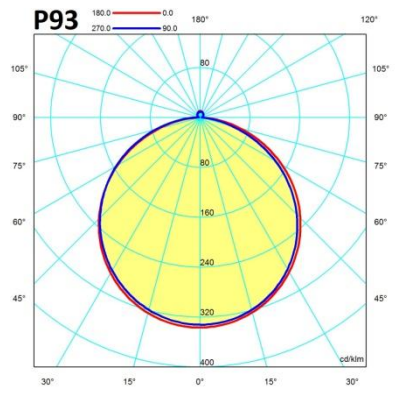
OPTIONAL ACCESSORY KITS

Code	Application	Content
FLLKITSUSP	Suspension mounting	Brackets and ropes in steel with clamps and fasteners, adjustable buttons to fine-tune the horizontal positioning
FLLKITWALL/1	Wall/ceiling mounting as a box	Metallic box to transform the panel in a wall-mounted fixture. Outer dimension after mounting L 300 x W 1200 x H 50±5mm
FLLKITPLAF	Direct wall/ceiling mounting	Brackets 35mm tall
FLLKITHOLE	Mounting in the false ceiling, as a recessed downlighter	Springs for mounting in a 275x1175mm cut-out hole
FLLKITMARK/1	Metallic frame for a rectangular hole in the false ceiling	Mounting flush with the false ceiling 

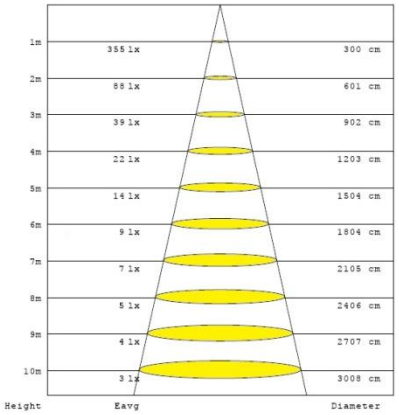
PHOTOMETRICS

36W PANEL

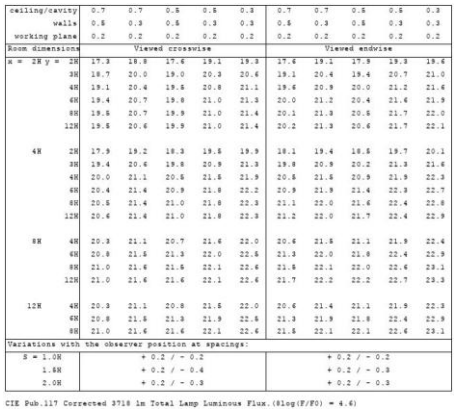
Spatial distribution of luminous intensity



Luminance on parallel planes within the optical beam



UGR Table



ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	17.3	18.8	17.6	19.1	19.3	17.6	19.1	17.9	19.3	19.6
3H	18.7	20.0	19.0	20.3	20.6	19.1	20.4	19.4	20.7	21.0
4H	19.1	20.4	19.5	20.8	21.1	19.6	20.9	20.0	21.2	21.6
6H	19.4	20.7	19.8	21.0	21.3	20.0	21.2	20.4	21.6	21.9
8H	19.5	20.7	19.9	21.0	21.4	20.1	21.3	20.5	21.7	22.0
12H	19.5	20.6	19.9	21.0	21.4	20.2	21.3	20.6	21.7	22.1
4H 2H	17.9	19.2	18.3	19.5	19.9	18.1	19.4	18.5	19.7	20.1
3H	19.4	20.6	19.8	20.9	21.3	19.8	20.9	20.2	21.3	21.6
4H	20.0	21.1	20.5	21.5	21.9	20.5	21.5	20.9	21.9	22.3
6H	20.4	21.4	20.9	21.8	22.2	20.9	21.9	21.4	22.3	22.7
8H	20.5	21.4	21.0	21.8	22.3	21.1	22.0	21.6	22.4	22.8
12H	20.6	21.4	21.0	21.8	22.3	21.2	22.0	21.7	22.4	22.9
8H 4H	20.3	21.1	20.7	21.6	22.0	20.6	21.5	21.1	21.9	22.4
6H	20.8	21.5	21.3	22.0	22.5	21.3	22.0	21.8	22.4	22.9
8H	21.0	21.6	21.5	22.1	22.6	21.5	22.1	22.0	22.6	23.1
12H	21.0	21.6	21.6	22.1	22.6	21.7	22.2	22.2	22.7	23.3
12H 4H	20.3	21.1	20.8	21.5	22.0	20.6	21.4	21.1	21.9	22.3
6H	20.8	21.5	21.3	21.9	22.5	21.3	21.9	21.8	22.4	22.9
8H	21.0	21.6	21.6	22.1	22.6	21.5	22.1	22.1	22.6	23.1

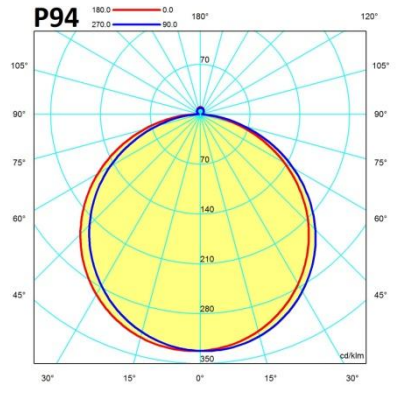
Variations with the observer position at spacings:

S = 1.0H	+ 0.2 / - 0.2	+ 0.2 / - 0.2
1.6H	+ 0.2 / - 0.4	+ 0.2 / - 0.3
2.0H	+ 0.2 / - 0.3	+ 0.2 / - 0.3

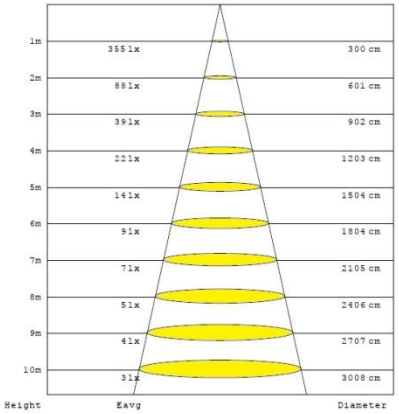
CIE Pub.117 Corrected 3718 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

42W PANEL

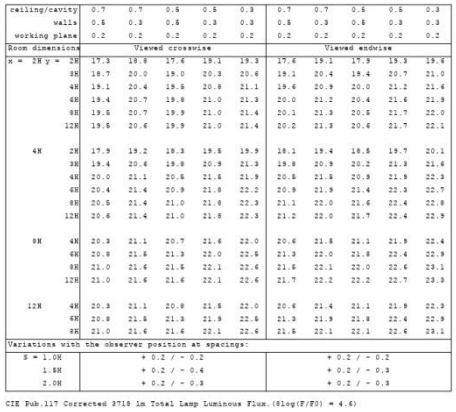
Spatial distribution of luminous intensity



Luminance on parallel planes within the optical beam



UGR Table



ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	17.3	18.8	17.6	19.1	19.3	17.6	19.1	17.9	19.3	19.6
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4H	19.1	20.4	19.5	20.8	21.1	19.6	20.9	20.0	21.2	21.6
6H	19.4	20.7	19.8	21.0	21.3	20.0	21.2	20.4	21.6	21.9
8H	19.5	20.7	19.9	21.0	21.4	20.1	21.3	20.5	21.7	22.0
12H	19.5	20.6	19.9	21.0	21.4	20.2	21.3	20.6	21.7	22.1
4H 2H	17.9	19.2	18.3	19.5	19.9	18.1	19.4	18.5	19.7	20.1
3H	19.4	20.6	19.8	20.9	21.3	19.8	20.9	20.2	21.3	21.6
4H	20.0	21.1	20.5	21.5	21.9	20.5	21.5	20.9	21.9	22.3
6H	20.4	21.4	20.9	21.8	22.2	20.9	21.9	21.4	22.3	22.7
8H	20.5	21.4	21.0	21.8	22.3	21.1	22.0	21.6	22.4	22.8
12H	20.6	21.4	21.0	21.8	22.3	21.2	22.0	21.7	22.4	22.9
8H 4H	20.3	21.1	20.7	21.6	22.0	20.6	21.5	21.1	21.9	22.4
6H	20.8	21.5	21.3	22.0	22.5	21.3	22.0	21.8	22.4	22.9
8H	21.0	21.6	21.5	22.1	22.6	21.5	22.1	22.0	22.6	23.1
12H	21.0	21.6	21.6	22.1	22.6	21.7	22.2	22.2	22.7	23.3
12H 4H	20.3	21.1	20.8	21.5	22.0	20.6	21.4	21.1	21.9	22.3
6H	20.8	21.5	21.3	21.9	22.5	21.3	21.9	21.8	22.4	22.9
8H	21.0	21.6	21.6	22.1	22.6	21.5	22.1	22.1	22.6	23.1

Variations with the observer position at spacings:

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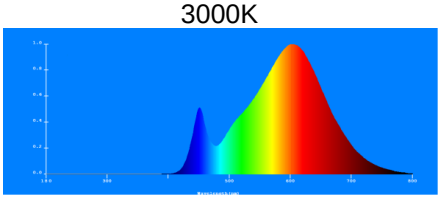
1.6H	+ 0.2 / - 0.4	+ 0.2 / - 0.3
2.0H	+ 0.2 / - 0.3	+ 0.2 / - 0.3

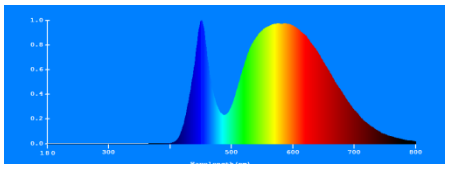
CIE Pub.117 Corrected 3718 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

Spectral Power Distribution 180-800nm

3000K



4000K



Correct disposal of this product
(Waste Electrical & Electronic Equipment) Applicable in countries with separate collection systems

This graphic symbol placed on the product and on the package indicates that the product should not be disposed with other household waste.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and responsibly recycle them to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased the product, or their local government office, for details on where and how they can take these items for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract; this product should not be mixed with other commercial wastes for disposal.