






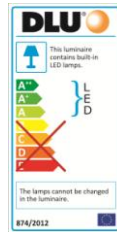



## LED FIXTURES

### FIXED IP65 FIXTURES WITH INTEGRATED LEDs

11W (1x18W T8)	23W (2x18W T8)	23W (1x36W T8)	48W (2x36W T8)	30W (1x58W T8)	58W (2x58W T8)																				
																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">P<sub>nom</sub> (W)</th> <th style="width: 20%;">Equivalent FLUO T8 fixture</th> <th style="width: 20%;">Dimension L x W x H (mm)</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>1 x 18W</td> <td>655 x 89 x 92</td> </tr> <tr> <td>23</td> <td>2 x 18W</td> <td>655 x 130 x 92</td> </tr> <tr> <td>23</td> <td>1 x 36W</td> <td>1265 x 89 x 92</td> </tr> <tr> <td>48</td> <td>2 x 36W</td> <td>1265 x 130 x 92</td> </tr> <tr> <td>30</td> <td>1 x 58W</td> <td>1565 x 89 x 92</td> </tr> <tr> <td>58</td> <td>2 x 58W</td> <td>1565 x 130 x 92</td> </tr> </tbody> </table>		P <sub>nom</sub> (W)	Equivalent FLUO T8 fixture	Dimension L x W x H (mm)	11	1 x 18W	655 x 89 x 92	23	2 x 18W	655 x 130 x 92	23	1 x 36W	1265 x 89 x 92	48	2 x 36W	1265 x 130 x 92	30	1 x 58W	1565 x 89 x 92	58	2 x 58W	1565 x 130 x 92			
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Fixed IP65 wall-mounting fixture, integrating an array of high power LEDs geared by a constant current LED driver. TÜV Süd quality mark. Frontal screen in Polycarbonate with frosted finish and rifling. Body of the fixture and clips for closing the frontal screen made in ABS. U-Bars for wall fixation in stainless steel.  
 Accessory (to be separately ordered): clips for closing the frontal screen made in stainless steel.

ITEM CODE	V <sub>in</sub>	P <sub>nom</sub> (W)	PF	Total flux (lm)	Useful flux (120° vertex cone) (lm)	lm/W	T <sub>c</sub> (K)	R <sub>a</sub>	Axis cd	Beam Opening	Eq. fluo T8
FLL5D7V2A	220-240V 50/60Hz	11	≥ 0.90	1070	900	81.8	4000	> 80	320	100°	1 x 18W
FLL5D7VEA	220-240V 50/60Hz	11	≥ 0.90	1120	940	85.4	6500	> 80	340	100°	1 x 18W
FLL5K7V2A	220-240V 50/60Hz	23	≥ 0.90	2100	1700	73.9	4000	> 80	700	100°	2 x 18W
FLL5K7VEA	220-240V 50/60Hz	23	≥ 0.90	2200	1800	78.3	6500	> 80	750	100°	2 x 18W
FLL5K7V2B	220-240V 50/60Hz	23	≥ 0.90	2100	1700	73.9	4000	> 80	700	100°	1 x 36W
FLL5K7VEB	220-240V 50/60Hz	23	≥ 0.90	2200	1800	78.3	6500	> 80	750	100°	1 x 36W
FLL5R7V2C	220-240V 50/60Hz	48	≥ 0.90	4300	3600	75	4000	> 80	1550	100°	2 x 36W
FLL5R7VEC	220-240V 50/60Hz	48	≥ 0.90	4500	3750	78.1	6500	> 80	1630	100°	2 x 36W
FLL5P7V2D	220-240V 50/60Hz	30	≥ 0.90	2700	2200	73.3	4000	> 80	920	100°	1 x 58W
FLL5P7VED	220-240V 50/60Hz	30	≥ 0.90	2850	2300	76.7	6500	> 80	970	100°	1 x 58W
FLL5T7V2E	220-240V 50/60Hz	58	≥ 0.90	5100	4250	73.3	4000	> 80	1800	100°	2 x 58W
FLL5T7VEE	220-240V 50/60Hz	58	≥ 0.90	5300	4450	76.7	6500	> 80	1900	100°	2 x 58W

Accessory Code	Description	Shipment Unit
FLLCLIPME	Clips for closing the frontal screen made in stainless steel	12-pcs bag



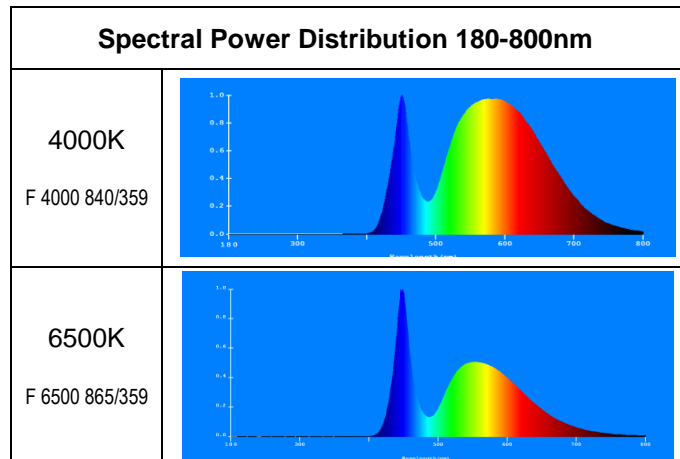
Operating electric conditions	Vin = 220-240V 50/60Hz																												
Insulating class																													
Not Adjustable																													
Average lifetime L70, F50 (*)	30.000 hours																												
Recommended ambient temperature																													
Degree of protection against ingress of dust, solid objects and moisture	IP65																												
Degree of protection against external mechanical impacts	IK08																												
Weight	<table border="1"> <thead> <tr> <th>Item code</th> <th>P<sub>nom</sub> (W)</th> <th>Equivalent Fluo T8</th> <th>kg</th> </tr> </thead> <tbody> <tr> <td>FLL5D7V2A; FLL5D7VEA</td> <td>11</td> <td>1x18W</td> <td>0.8</td> </tr> <tr> <td>FLL5K7V2A; FLL5K7VEA</td> <td>23</td> <td>2x18W</td> <td>1.3</td> </tr> <tr> <td>FLL5K7V2B; FLL5K7VEB</td> <td>23</td> <td>1x36W</td> <td>1.5</td> </tr> <tr> <td>FLL5R7V2C; FLL5R7VEC</td> <td>48</td> <td>2x36W</td> <td>2.1</td> </tr> <tr> <td>FLL5P7V2D; FLL5P7VED</td> <td>30</td> <td>1x58W</td> <td>1.9</td> </tr> <tr> <td>FLL5T7V2E; FLL5T7VEE</td> <td>58</td> <td>2x58W</td> <td>2.7</td> </tr> </tbody> </table>	Item code	P <sub>nom</sub> (W)	Equivalent Fluo T8	kg	FLL5D7V2A; FLL5D7VEA	11	1x18W	0.8	FLL5K7V2A; FLL5K7VEA	23	2x18W	1.3	FLL5K7V2B; FLL5K7VEB	23	1x36W	1.5	FLL5R7V2C; FLL5R7VEC	48	2x36W	2.1	FLL5P7V2D; FLL5P7VED	30	1x58W	1.9	FLL5T7V2E; FLL5T7VEE	58	2x58W	2.7
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Lamp Survival Factor @6000h	0.90																												
Lamp Lumen Maintenance Factor @6000h	0.80																												
Lamp Lumen Maintenance Factor @30.000h	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).*

*(\*) After 30.000 hours, the luminous flux is at least the 70% of the initial value and the 50% of the fixtures are still functioning.*

	Photometric curve	LUMINANCE IN FRONT OF THE EMITTING SURFACE																								
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<b>23W</b> (2x18W fluo)	<p><b>P51</b></p> <p>180.0 — 0.0 — 180°                      270.0 — 90.0 — 120°</p> <p>105° 70 105°                      90° 70 90°                      75° 70 75°                      60° 140 60°                      45° 210 45°                      350 30° 15° 0° 15° 30°</p> <p style="text-align: right;">cd/klm</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Height</th> <th>Eavg</th> <th>Angle: 101 deg</th> <th>Diameter</th> </tr> </thead> <tbody> <tr> <td>1m</td> <td>258 lx</td> <td></td> <td>244 cm</td> </tr> <tr> <td>2m</td> <td>64 lx</td> <td></td> <td>489 cm</td> </tr> <tr> <td>3m</td> <td>28 lx</td> <td></td> <td>733 cm</td> </tr> <tr> <td>4m</td> <td>16 lx</td> <td></td> <td>978 cm</td> </tr> <tr> <td>5m</td> <td>10 lx</td> <td></td> <td>1223 cm</td> </tr> </tbody> </table>	Height	Eavg	Angle: 101 deg	Diameter	1m	258 lx		244 cm	2m	64 lx		489 cm	3m	28 lx		733 cm	4m	16 lx		978 cm	5m	10 lx		1223 cm
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	Photometric curve	LUMINANCE IN FRONT OF THE EMITTING SURFACE
<b>48W</b> (2x36W fluo)		
<b>30W</b> (1x58W fluo)		
<b>58W</b> (2x58W fluo)		




**Reference Standards:**

EN60598-1; EN60598-2-1; EN62031; EN50102; CEI EN 61347-1; CEI EN 61347-2-13; IEC draft 34A/1444/PAS (IEC/PAS 62717 Ed.1); IEC62471; IEC/TR 62471-2; EN55015; EN61000-3-2; EN61000-3-3; EN61547; EN62493

**European Directives and Regulations:**

2014/35; 2014/30; 92/31; 93/68; 2009/125 (Reg.no.1194/2012; no.1428/2015); 2010/30 (Reg.no.874/2012); 2012/27; 2011/65; 2012/19

	<p><b>Correct disposal of this product</b>  (Waste Electrical &amp; Electronic Equipment)  Applicable in countries with separate collection systems</p> <p>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.</p>
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