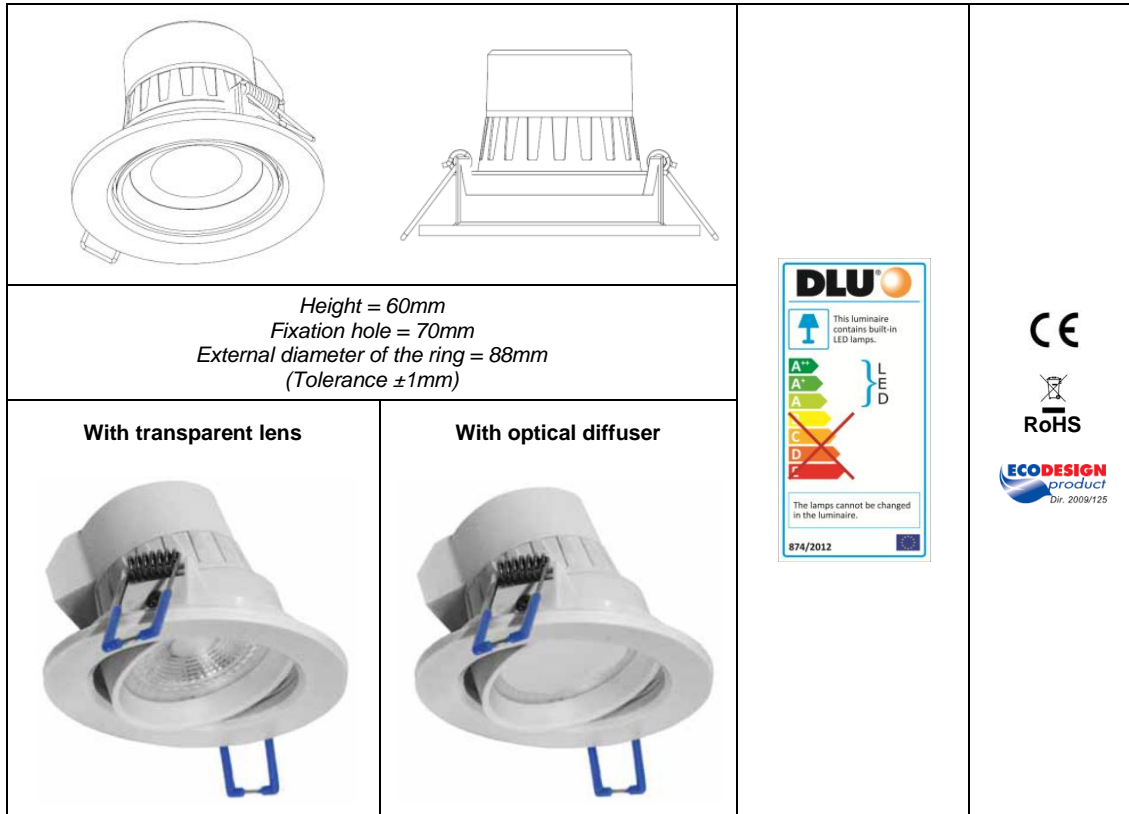


LED FIXTURES

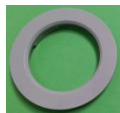
FIXED RECESSED DOWNLIGHTER MR16/GU10 7W TILTING







ECO BRIGHT



Fixed recessed downlighter for false ceiling application, integrating an array of high power LEDs geared by an internal LED driver. Substitution of fixtures for GU10/MR16 halogen lamps. 50° tilting angle around the vertical axis. Fixture body in polycarbonate with opaque white finish; frontal screen in polycarbonate with two options: transparent lens or frosted diffuser. Two sustaining springs in stainless steel. Available accessory: Frontal ring in polycarbonate, grey painted finish (to be separately ordered)

ITEM CODE	V _{in}	P _{nom} (W)	PF	Total flux (lm)	Useful flux (lm)	lm/W	T _c (K)	R _a	Axis cd	Beam Opening	Frontal Glass
FLLD57VA9-T	220-240V 50/60Hz	7	> 0.50	650	550 (90° vertex cone)	78.6	3000	> 80	600	60°	Transparent Lens
FLLD57VAC-T	220-240V 50/60Hz	7	> 0.50	650	500 (120° vertex cone)	71.4	3000	> 80	250	110°	Optical Diffuser

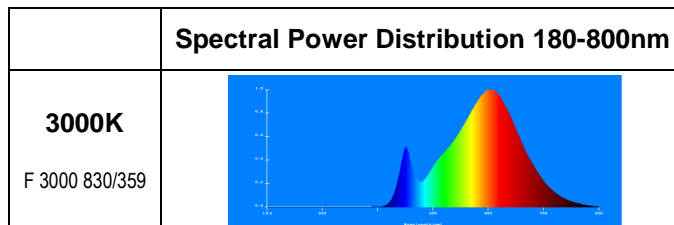
Accessory Code	Description	Finish	Shipment Unit	
MM88RINGS	Frontal ring in polycarbonate	GREY painting	6-pcs box	

Operating electric conditions	Vin = 220-240V 50/60Hz
Insulating class	
Not Adjustable	
False ceiling hole	
Average lifetime L70, F50 (*)	25.000 hours
For indoor use only	
Recommended ambient temperature	
Not suitable for covering with thermally insulated material	
Protection degree	V.I. IP20; V.O. IP23
Weight	120g
Lamp Survival Factor @6000h	0.90
Lamp Lumen Maintenance Factor @6000h	0.80
Lamp Lumen Maintenance Factor @25.000h	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
<small>LED lamp 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).</small>	

(*) After 25.000 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	UGR Table																																																																																																																																																																																																																																																																									
FLLD57VA9-T			<table border="1"> <thead> <tr> <th>ceiling/cevyty</th> <th>0.7</th> <th>0.7</th> <th>0.5</th> <th>0.5</th> <th>0.3</th> <th>0.7</th> <th>0.7</th> <th>0.5</th> <th>0.5</th> <th>0.3</th> </tr> <tr> <th>wall</th> <th>0.5</th> <th>0.3</th> <th>0.5</th> <th>0.3</th> <th>0.3</th> <th>0.5</th> <th>0.3</th> <th>0.5</th> <th>0.3</th> <th>0.3</th> </tr> <tr> <th>working plane</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> <th>0.2</th> </tr> </thead> <tbody> <tr> <td colspan="2">Room dimensions</td> <td colspan="5">Viewed crosswise</td> <td colspan="5">Viewed sidewise</td> </tr> <tr> <td>s = 2m y = 2m</td> <td>10.3</td> <td>11.4</td> <td>10.4</td> <td>11.4</td> <td>11.8</td> <td>10.8</td> <td>11.9</td> <td>11.0</td> <td>12.1</td> <td>12.2</td> </tr> <tr> <td>3m</td> <td>10.4</td> <td>11.5</td> <td>10.7</td> <td>11.7</td> <td>11.9</td> <td>10.9</td> <td>11.9</td> <td>11.1</td> <td>12.1</td> <td>12.3</td> </tr> <tr> <td>4m</td> <td>10.5</td> <td>11.4</td> <td>10.8</td> <td>11.5</td> <td>11.9</td> <td>10.9</td> <td>11.9</td> <td>11.1</td> <td>12.1</td> <td>12.3</td> </tr> <tr> <td>5m</td> <td>10.5</td> <td>11.4</td> <td>10.8</td> <td>11.4</td> <td>11.9</td> <td>10.8</td> <td>11.7</td> <td>11.1</td> <td>12.0</td> <td>12.2</td> </tr> <tr> <td>6m</td> <td>10.5</td> <td>11.3</td> <td>10.8</td> <td>11.4</td> <td>11.9</td> <td>10.8</td> <td>11.7</td> <td>11.1</td> <td>11.9</td> <td>12.2</td> </tr> <tr> <td>8m</td> <td>10.6</td> <td>11.3</td> <td>11.0</td> <td>11.4</td> <td>12.0</td> <td>10.9</td> <td>11.5</td> <td>11.3</td> <td>11.9</td> <td>12.3</td> </tr> <tr> <td>12m</td> <td>10.4</td> <td>11.2</td> <td>11.0</td> <td>11.4</td> <td>11.9</td> <td>10.9</td> <td>11.4</td> <td>11.1</td> <td>11.9</td> <td>12.1</td> </tr> <tr> <td>4m</td> <td>10.3</td> <td>11.3</td> <td>10.4</td> <td>11.5</td> <td>11.7</td> <td>10.7</td> <td>11.7</td> <td>11.0</td> <td>11.9</td> <td>12.2</td> </tr> <tr> <td>3m</td> <td>10.5</td> <td>11.3</td> <td>10.8</td> <td>11.4</td> <td>11.9</td> <td>10.9</td> <td>11.7</td> <td>11.2</td> <td>12.0</td> <td>12.3</td> </tr> <tr> <td>4m</td> <td>10.4</td> <td>11.4</td> <td>11.0</td> <td>11.7</td> <td>12.0</td> <td>10.9</td> <td>11.7</td> <td>11.9</td> <td>12.0</td> <td>12.3</td> </tr> <tr> <td>6m</td> <td>10.7</td> <td>11.5</td> <td>11.1</td> <td>12.0</td> <td>12.0</td> <td>10.9</td> <td>11.6</td> <td>11.9</td> <td>12.0</td> <td>12.3</td> </tr> <tr> <td>8m</td> <td>10.6</td> <td>11.3</td> <td>11.0</td> <td>11.4</td> <td>12.0</td> <td>10.9</td> <td>11.5</td> <td>11.3</td> <td>11.9</td> <td>12.3</td> </tr> <tr> <td>12m</td> <td>10.4</td> <td>11.2</td> <td>11.0</td> <td>11.4</td> <td>11.9</td> <td>10.9</td> <td>11.4</td> <td>11.1</td> <td>11.9</td> <td>12.2</td> </tr> <tr> <td>8m</td> <td>10.4</td> <td>11.2</td> <td>11.0</td> <td>11.5</td> <td>11.9</td> <td>10.9</td> <td>11.5</td> <td>11.3</td> <td>11.9</td> <td>12.2</td> </tr> <tr> <td>6m</td> <td>10.7</td> <td>11.2</td> <td>11.1</td> <td>11.4</td> <td>12.0</td> <td>10.9</td> <td>11.4</td> <td>11.3</td> <td>11.9</td> <td>12.2</td> </tr> <tr> <td>8m</td> <td>10.6</td> <td>11.1</td> <td>11.1</td> <td>11.5</td> <td>12.0</td> <td>10.9</td> <td>11.3</td> <td>11.3</td> <td>11.8</td> <td>12.2</td> </tr> <tr> <td>12m</td> <td>10.4</td> <td>11.0</td> <td>11.1</td> <td>11.4</td> <td>11.9</td> <td>10.9</td> <td>11.2</td> <td>11.3</td> <td>11.7</td> <td>12.1</td> </tr> <tr> <td>12m</td> <td>4m</td> <td>10.5</td> <td>11.1</td> <td>10.9</td> <td>11.5</td> <td>11.9</td> <td>10.9</td> <td>11.4</td> <td>11.9</td> <td>12.2</td> </tr> <tr> <td>6m</td> <td>10.6</td> <td>11.1</td> <td>11.1</td> <td>11.5</td> <td>11.9</td> <td>10.9</td> <td>11.3</td> <td>11.3</td> <td>11.7</td> <td>12.2</td> </tr> <tr> <td>8m</td> <td>10.4</td> <td>11.0</td> <td>11.1</td> <td>11.4</td> <td>11.9</td> <td>10.9</td> <td>11.2</td> <td>11.3</td> <td>11.7</td> <td>12.2</td> </tr> </tbody> </table> <p>Variations with the observer position at spacings: s = 1.0m + 1.6 / - 2.6 + 1.6 / - 2.8 1.5m + 2.2 / - 2.0 + 2.2 / - 2.2 2.0m + 2.9 / - 2.1 + 3.2 / - 2.3</p> <p>CIE Pub-117 Corrected 443.3 lm Total Lamp Luminous Flux (E₀log(I/F)) = -1.9</p>	ceiling/cevyty	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	wall	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 sidewise					s = 2m y = 2m	10.3	11.4	10.4	11.4	11.8	10.8	11.9	11.0	12.1	12.2	3m	10.4	11.5	10.7	11.7	11.9	10.9	11.9	11.1	12.1	12.3	4m	10.5	11.4	10.8	11.5	11.9	10.9	11.9	11.1	12.1	12.3	5m	10.5	11.4	10.8	11.4	11.9	10.8	11.7	11.1	12.0	12.2	6m	10.5	11.3	10.8	11.4	11.9	10.8	11.7	11.1	11.9	12.2	8m	10.6	11.3	11.0	11.4	12.0	10.9	11.5	11.3	11.9	12.3	12m	10.4	11.2	11.0	11.4	11.9	10.9	11.4	11.1	11.9	12.1	4m	10.3	11.3	10.4	11.5	11.7	10.7	11.7	11.0	11.9	12.2	3m	10.5	11.3	10.8	11.4	11.9	10.9	11.7	11.2	12.0	12.3	4m	10.4	11.4	11.0	11.7	12.0	10.9	11.7	11.9	12.0	12.3	6m	10.7	11.5	11.1	12.0	12.0	10.9	11.6	11.9	12.0	12.3	8m	10.6	11.3	11.0	11.4	12.0	10.9	11.5	11.3	11.9	12.3	12m	10.4	11.2	11.0	11.4	11.9	10.9	11.4	11.1	11.9	12.2	8m	10.4	11.2	11.0	11.5	11.9	10.9	11.5	11.3	11.9	12.2	6m	10.7	11.2	11.1	11.4	12.0	10.9	11.4	11.3	11.9	12.2	8m	10.6	11.1	11.1	11.5	12.0	10.9	11.3	11.3	11.8	12.2	12m	10.4	11.0	11.1	11.4	11.9	10.9	11.2	11.3	11.7	12.1	12m	4m	10.5	11.1	10.9	11.5	11.9	10.9	11.4	11.9	12.2	6m	10.6	11.1	11.1	11.5	11.9	10.9	11.3	11.3	11.7	12.2	8m	10.4	11.0	11.1	11.4	11.9	10.9	11.2	11.3	11.7	12.2
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0.4 + 0.3 / - 0.4 1.5m + 0.2 / - 0.4 + 0.2 / - 0.4 2.0m + 0.5 / - 0.5 + 0.5 / - 0.5</p> <p>CIE Pub-117 Corrected 587.5 lm Total Lamp Luminous Flux (E₀log(I/F)) = -1.9</p>	ceiling/cevyty	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	wall	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 sidewise					s = 2m y = 2m	14.7	16.1	15.0	16.3	16.5	14.7	16.1	15.0	16.3	16.5	3m	15.7	17.0	16.0	17.2	17.5	15.7	17.0	16.0	17.3	17.5	4m	16.0	17.2	16.3	17.5	17.7	16.0	17.3	16.2	17.5	17.9	6m	16.1	17.2	16.4	17.5	17.9	16.1	17.3	16.5	17.6	17.9	8m	16.0	17.2	16.4	17.5	17.7	16.1	17.3	16.5	17.5	17.8	12m	16.0	17.1	16.4	17.4	17.7	16.1	17.2	16.4	17.5	17.8	4m	15.1	16.4	15.5	16.6	16.9	15.1	16.4	15.5	16.6	16.9	3m	16.3	17.4	16.4	17.7	18.0	16.3	17.4	16.7	17.7	18.0	4m	16.7	17.7	17.0	18.0	18.3	16.7	17.7	17.1	18.0	18.4	6m	16.8	17.7	17.2	18.0	18.4	16.9	17.8	17.3	18.1	18.5	8m	16.8	17.4	17.2	18.0	18.4	16.9	17.7	17.3	18.1	18.5	12m	16.8	17.4	17.2	17.9	18.3	16.9	17.6	17.3	18.0	18.4	8m	16.8	17.4	17.2	17.9	18.3	16.8	17.4	17.2	18.0	18.4	6m	17.0	17.7	17.4	18.1	18.5	17.0	17.7	17.5	18.1	18.5	8m	17.0	17.6	17.5	18.0	18.5	17.1	17.7	17.5	18.1	18.5	12m	17.0	17.5	17.5	18.0	18.5	17.1	17.6	17.4	18.1	18.5	12m	4m	16.7	17.5	17.2	17.9	18.3	16.8	17.5	17.2	17.9	6m	17.0	17.6	17.4	18.0	18.4	17.0	17.6	17.5	18.0	18.5	8m	17.0	17.5	17.5	18.0	18.4	17.1	17.6	17.4	18.0	18.5											
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Reference Standards:
EN60598-1; 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>Correct disposal of this product (Waste Electrical & 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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