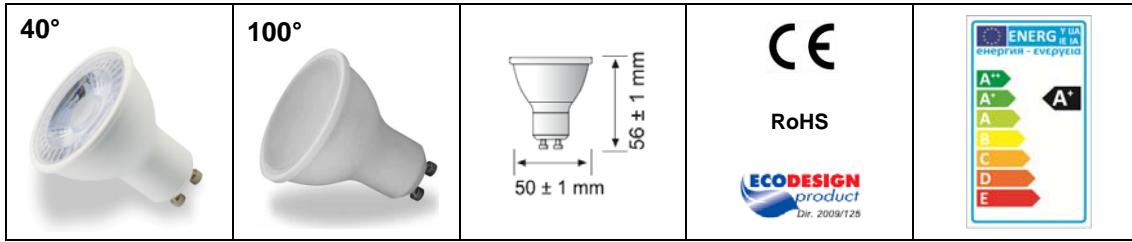







SELFBALLAST LED LAMPS FOR MAINS VOLTAGE GU10 6W “SNOW” DIMMABLE **ECO BRIGHT**



Item code	P _{nom} (W)	T _c (K)	Cap	I (mA)	PF	Total Flux (lm)	Useful Flux (lm)	lm/W	Equivalent hal PAR16 power (W)	Energy Class	Ec (kWh/1000h)	Axis Cd	Beam	R _a	Weight (g)
FLLN407AC-R	6	3000	GU10	30	>0.8	420	360	60	52	A+	6	700	40°	≥80	28
FLLN4072C-R	6	4000	GU10	30	>0.8	420	360	60	52	A+	6	700	40°	≥80	28
FLLN407EC-R	6	6500	GU10	30	>0.8	450	380	63.3	55	A+	6	740	40°	≥80	28

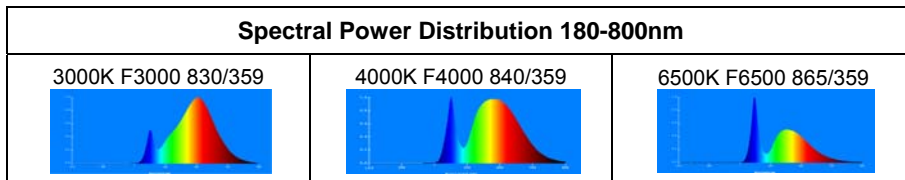
Item code	P _{nom} (W)	T _c (K)	Cap	I (mA)	P F	Lumin. Flux (lm)	lm/W	Equiv. inc power (W)	En. Class	Ec (kWh/1000h)	Axis Cd	Beam	R _a	Weight (g)	
FLLN40CAC-R	6	3000	GU10	30	>0.8	420	70	37	A+	6	150	100°	≥80	26	
FLLN40C2C-R	6	4000	GU10	30	>0.8	420	70	37	A+	6	150	100°	≥80	26	
FLLN40CEC-R	6	6500	GU10	30	>0.8	450	75	39	A+	6	160	100°	≥80	26	

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).

40° model: PAR16 DIRECTIONAL LAMP – for accent lighting 100° model: NON DIRECTIONAL LAMP - for diffused lighting	
Operating electric conditions	230V 50/60Hz
Adjustable 	30-100% by common dimmers for filament lamps for mains voltage, like Relco RTM34SVI, RT34DLI or similar
Lamp not suitable for use under moisture	
Average lifetime L70, F50	15.000 hours
Lamp Survival Factor @6000h	0.90
Lamp Lumen Maintenance Factor @6000h	0.80
Lamp Lumen Maintenance Factor @15.000h	70% (L70)
Starting time	< 0.4s
Number of switching cycles before failure	> 10.000
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



	GONIOPHOTOMETRICS	LUMINANCE IN FRONT OF THE EMITTING SURFACE	UGR Table																																																																																																																																																																																																																																																													
40°			<table border="1"> <thead> <tr> <th>ceiling/cavity</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>walls</th> <td>0.5</td> <td>0.3</td> <td>0.5</td> <td>0.3</td> <td>0.3</td> <td>0.5</td> <td>0.3</td> <td>0.5</td> <td>0.3</td> <td>0.3</td> </tr> <tr> <th>working plane</th> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> </tr> </thead> <tbody> <tr> <td>Room dimensions</td> <td colspan="5">Viewed crosswise</td> <td colspan="5">Viewed endwise</td> </tr> <tr> <td>$\alpha = 28 \text{ } \gamma = 28$</td> <td>28</td> <td>22.4</td> <td>23.6</td> <td>22.9</td> <td>23.8</td> <td>24.0</td> <td>21.1</td> <td>22.1</td> <td>21.3</td> <td>22.2</td> </tr> <tr> <td>36</td> <td>23.3</td> <td>24.2</td> <td>23.5</td> <td>24.4</td> <td>24.4</td> <td>22.7</td> <td>22.7</td> <td>22.0</td> <td>22.8</td> <td>23.1</td> </tr> <tr> <td>48</td> <td>23.5</td> <td>24.4</td> <td>23.8</td> <td>24.6</td> <td>24.9</td> <td>22.0</td> <td>22.9</td> <td>22.3</td> <td>23.1</td> <td>23.4</td> </tr> <tr> <td>66</td> <td>23.8</td> <td>24.6</td> <td>24.1</td> <td>24.8</td> <td>25.1</td> <td>22.2</td> <td>23.0</td> <td>22.5</td> <td>23.3</td> <td>23.6</td> </tr> <tr> <td>88</td> <td>23.8</td> <td>24.6</td> <td>24.2</td> <td>24.9</td> <td>25.2</td> <td>22.3</td> <td>23.1</td> <td>22.4</td> <td>23.4</td> <td>23.6</td> </tr> <tr> <td>126</td> <td>23.9</td> <td>24.7</td> <td>24.2</td> <td>24.9</td> <td>25.2</td> <td>22.3</td> <td>23.1</td> <td>22.7</td> <td>23.4</td> <td>23.7</td> </tr> <tr> <td>48</td> <td>28</td> <td>22.7</td> <td>23.6</td> <td>23.0</td> <td>23.8</td> <td>24.1</td> <td>21.4</td> <td>22.2</td> <td>21.7</td> <td>22.5</td> </tr> <tr> <td>36</td> <td>23.6</td> <td>24.3</td> <td>23.9</td> <td>24.6</td> <td>24.9</td> <td>22.2</td> <td>22.9</td> <td>22.5</td> <td>23.2</td> <td>23.5</td> </tr> <tr> <td>48</td> <td>24.0</td> <td>24.7</td> <td>24.3</td> <td>25.0</td> <td>25.3</td> <td>22.5</td> <td>23.2</td> <td>22.9</td> <td>23.6</td> <td>23.9</td> </tr> <tr> <td>66</td> <td>24.3</td> <td>24.9</td> <td>24.7</td> <td>25.3</td> <td>25.4</td> <td>22.8</td> <td>23.5</td> <td>23.2</td> <td>23.8</td> <td>24.2</td> </tr> <tr> <td>88</td> <td>24.5</td> <td>25.0</td> <td>24.9</td> <td>25.4</td> <td>25.8</td> <td>23.0</td> <td>23.5</td> <td>23.4</td> <td>23.9</td> <td>24.3</td> </tr> <tr> <td>126</td> <td>24.6</td> <td>25.1</td> <td>25.0</td> <td>25.5</td> <td>25.9</td> <td>23.0</td> <td>23.5</td> <td>23.5</td> <td>23.9</td> <td>24.3</td> </tr> <tr> <td>88</td> <td>48</td> <td>24.0</td> <td>24.6</td> <td>24.4</td> <td>24.9</td> <td>25.3</td> <td>22.7</td> <td>23.3</td> <td>23.1</td> <td>23.4</td> </tr> <tr> <td>66</td> <td>24.5</td> <td>25.0</td> <td>24.9</td> <td>25.4</td> <td>25.8</td> <td>23.1</td> <td>23.6</td> <td>23.5</td> <td>24.0</td> <td>24.4</td> </tr> <tr> <td>88</td> <td>24.7</td> <td>25.1</td> <td>25.2</td> <td>25.5</td> <td>26.0</td> <td>23.2</td> <td>23.7</td> <td>23.7</td> <td>24.1</td> <td>24.5</td> </tr> <tr> <td>126</td> <td>24.9</td> <td>25.2</td> <td>25.4</td> <td>25.7</td> <td>26.2</td> <td>23.4</td> <td>23.7</td> <td>23.8</td> <td>24.2</td> <td>24.7</td> </tr> <tr> <td>126</td> <td>48</td> <td>24.0</td> <td>24.5</td> <td>24.4</td> <td>24.9</td> <td>25.3</td> <td>22.7</td> <td>23.2</td> <td>23.1</td> <td>23.4</td> </tr> <tr> <td>66</td> <td>24.5</td> <td>24.9</td> <td>24.9</td> <td>25.3</td> <td>25.8</td> <td>23.1</td> <td>23.5</td> <td>23.6</td> <td>24.0</td> <td>24.4</td> </tr> <tr> <td>88</td> <td>24.7</td> <td>25.1</td> <td>25.2</td> <td>25.5</td> <td>26.0</td> <td>23.3</td> <td>23.7</td> <td>23.8</td> <td>24.1</td> <td>24.6</td> </tr> </tbody> </table> <p>Variations with the observer position at spacings: $s = 1.08$ $+ 0.9 / - 0.9$ $+ 0.8 / - 0.7$ 1.58 $+ 1.0 / - 0.7$ $+ 1.5 / - 0.5$ 2.08 $+ 1.5 / - 0.7$ $+ 0.8 / - 0.8$</p> <p>CIE Pub.117 Corrected 393.1 in Total Lamp Luminous Flux. (log(F/F0)) = -3.21</p>	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					$\alpha = 28 \text{ } \gamma = 28$	28	22.4	23.6	22.9	23.8	24.0	21.1	22.1	21.3	22.2	36	23.3	24.2	23.5	24.4	24.4	22.7	22.7	22.0	22.8	23.1	48	23.5	24.4	23.8	24.6	24.9	22.0	22.9	22.3	23.1	23.4	66	23.8	24.6	24.1	24.8	25.1	22.2	23.0	22.5	23.3	23.6	88	23.8	24.6	24.2	24.9	25.2	22.3	23.1	22.4	23.4	23.6	126	23.9	24.7	24.2	24.9	25.2	22.3	23.1	22.7	23.4	23.7	48	28	22.7	23.6	23.0	23.8	24.1	21.4	22.2	21.7	22.5	36	23.6	24.3	23.9	24.6	24.9	22.2	22.9	22.5	23.2	23.5	48	24.0	24.7	24.3	25.0	25.3	22.5	23.2	22.9	23.6	23.9	66	24.3	24.9	24.7	25.3	25.4	22.8	23.5	23.2	23.8	24.2	88	24.5	25.0	24.9	25.4	25.8	23.0	23.5	23.4	23.9	24.3	126	24.6	25.1	25.0	25.5	25.9	23.0	23.5	23.5	23.9	24.3	88	48	24.0	24.6	24.4	24.9	25.3	22.7	23.3	23.1	23.4	66	24.5	25.0	24.9	25.4	25.8	23.1	23.6	23.5	24.0	24.4	88	24.7	25.1	25.2	25.5	26.0	23.2	23.7	23.7	24.1	24.5	126	24.9	25.2	25.4	25.7	26.2	23.4	23.7	23.8	24.2	24.7	126	48	24.0	24.5	24.4	24.9	25.3	22.7	23.2	23.1	23.4	66	24.5	24.9	24.9	25.3	25.8	23.1	23.5	23.6	24.0	24.4	88	24.7	25.1	25.2	25.5	26.0	23.3	23.7	23.8	24.1	24.6
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3																																																																																																																																																																																																																																																						
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100°			<table border="1"> <thead> <tr> <th>ceiling/cavity</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>walls</th> <td>0.5</td> <td>0.3</td> <td>0.5</td> <td>0.3</td> <td>0.3</td> <td>0.5</td> <td>0.3</td> <td>0.5</td> <td>0.3</td> <td>0.3</td> </tr> <tr> <th>working plane</th> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> <td>0.2</td> </tr> </thead> <tbody> <tr> <td>Room dimensions</td> <td colspan="5">Viewed crosswise</td> <td colspan="5">Viewed endwise</td> </tr> <tr> <td>$\alpha = 28 \text{ } \gamma = 28$</td> <td>28</td> <td>27.4</td> <td>28.8</td> <td>27.7</td> <td>29.1</td> <td>29.3</td> <td>27.2</td> <td>28.6</td> <td>29.4</td> <td>28.8</td> </tr> <tr> <td>36</td> <td>28.7</td> <td>30.1</td> <td>29.0</td> <td>30.3</td> <td>30.4</td> <td>29.4</td> <td>29.8</td> <td>28.7</td> <td>30.0</td> <td>30.3</td> </tr> <tr> <td>48</td> <td>28.2</td> <td>30.5</td> <td>29.4</td> <td>30.8</td> <td>31.1</td> <td>28.8</td> <td>30.2</td> <td>29.2</td> <td>30.4</td> <td>30.7</td> </tr> <tr> <td>66</td> <td>28.4</td> <td>30.8</td> <td>30.0</td> <td>31.1</td> <td>31.4</td> <td>29.2</td> <td>30.4</td> <td>29.6</td> <td>30.7</td> <td>31.0</td> </tr> <tr> <td>88</td> <td>28.8</td> <td>30.9</td> <td>30.1</td> <td>31.2</td> <td>31.6</td> <td>29.3</td> <td>30.5</td> <td>29.7</td> <td>30.8</td> <td>31.1</td> </tr> <tr> <td>126</td> <td>29.9</td> <td>31.0</td> <td>30.2</td> <td>31.3</td> <td>31.4</td> <td>29.4</td> <td>30.6</td> <td>29.8</td> <td>30.9</td> <td>31.2</td> </tr> <tr> <td>48</td> <td>28</td> <td>27.9</td> <td>29.1</td> <td>28.2</td> <td>29.4</td> <td>29.7</td> <td>27.7</td> <td>29.0</td> <td>29.0</td> <td>29.5</td> </tr> <tr> <td>36</td> <td>28.4</td> <td>30.5</td> <td>29.7</td> <td>30.8</td> <td>31.1</td> <td>29.1</td> <td>30.2</td> <td>29.5</td> <td>30.5</td> <td>30.9</td> </tr> <tr> <td>48</td> <td>28.9</td> <td>31.1</td> <td>30.4</td> <td>31.4</td> <td>31.7</td> <td>29.7</td> <td>30.7</td> <td>30.2</td> <td>31.1</td> <td>31.4</td> </tr> <tr> <td>66</td> <td>30.4</td> <td>31.5</td> <td>31.0</td> <td>31.8</td> <td>32.2</td> <td>30.2</td> <td>31.1</td> <td>30.4</td> <td>31.5</td> <td>31.8</td> </tr> <tr> <td>88</td> <td>30.8</td> <td>31.6</td> <td>31.2</td> <td>32.0</td> <td>32.4</td> <td>30.3</td> <td>31.2</td> <td>30.8</td> <td>31.6</td> <td>32.0</td> </tr> <tr> <td>126</td> <td>30.9</td> <td>31.7</td> <td>31.4</td> <td>32.1</td> <td>32.5</td> <td>30.5</td> <td>31.3</td> <td>30.9</td> <td>31.7</td> <td>32.1</td> </tr> <tr> <td>88</td> <td>48</td> <td>30.2</td> <td>31.1</td> <td>30.7</td> <td>31.5</td> <td>31.9</td> <td>29.9</td> <td>30.8</td> <td>30.4</td> <td>31.2</td> </tr> <tr> <td>66</td> <td>30.9</td> <td>31.6</td> <td>31.4</td> <td>32.0</td> <td>32.5</td> <td>30.5</td> <td>31.3</td> <td>31.0</td> <td>31.7</td> <td>32.1</td> </tr> <tr> <td>88</td> <td>31.2</td> <td>31.8</td> <td>31.7</td> <td>32.3</td> <td>32.7</td> <td>30.8</td> <td>31.4</td> <td>31.3</td> <td>31.9</td> <td>32.3</td> </tr> <tr> <td>126</td> <td>31.4</td> <td>32.0</td> <td>31.9</td> <td>32.4</td> <td>32.9</td> <td>31.0</td> <td>31.5</td> <td>31.5</td> <td>32.0</td> <td>32.5</td> </tr> <tr> <td>126</td> <td>48</td> <td>30.2</td> <td>31.0</td> <td>30.7</td> <td>31.4</td> <td>31.8</td> <td>30.0</td> <td>30.7</td> <td>30.4</td> <td>31.1</td> </tr> <tr> <td>66</td> <td>30.9</td> <td>31.6</td> <td>31.4</td> <td>32.0</td> <td>32.5</td> <td>30.4</td> <td>31.2</td> <td>31.1</td> <td>31.7</td> <td>32.1</td> </tr> <tr> <td>88</td> <td>31.3</td> <td>31.8</td> <td>31.8</td> <td>32.3</td> <td>32.8</td> <td>30.9</td> <td>31.4</td> <td>31.4</td> <td>31.9</td> <td>32.4</td> </tr> </tbody> </table> <p>Variations with the observer position at spacings: $s = 1.08$ $+ 0.2 / - 0.2$ $+ 0.2 / - 0.3$ 1.58 $+ 0.1 / - 0.3$ $+ 0.2 / - 0.3$ 2.08 $+ 0.3 / - 0.3$ $+ 0.3 / - 0.3$</p> <p>CIE Pub.117 Corrected 385.7 in Total Lamp Luminous Flux. (log(F/F0)) = -3.31</p>	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					$\alpha = 28 \text{ } \gamma = 28$	28	27.4	28.8	27.7	29.1	29.3	27.2	28.6	29.4	28.8	36	28.7	30.1	29.0	30.3	30.4	29.4	29.8	28.7	30.0	30.3	48	28.2	30.5	29.4	30.8	31.1	28.8	30.2	29.2	30.4	30.7	66	28.4	30.8	30.0	31.1	31.4	29.2	30.4	29.6	30.7	31.0	88	28.8	30.9	30.1	31.2	31.6	29.3	30.5	29.7	30.8	31.1	126	29.9	31.0	30.2	31.3	31.4	29.4	30.6	29.8	30.9	31.2	48	28	27.9	29.1	28.2	29.4	29.7	27.7	29.0	29.0	29.5	36	28.4	30.5	29.7	30.8	31.1	29.1	30.2	29.5	30.5	30.9	48	28.9	31.1	30.4	31.4	31.7	29.7	30.7	30.2	31.1	31.4	66	30.4	31.5	31.0	31.8	32.2	30.2	31.1	30.4	31.5	31.8	88	30.8	31.6	31.2	32.0	32.4	30.3	31.2	30.8	31.6	32.0	126	30.9	31.7	31.4	32.1	32.5	30.5	31.3	30.9	31.7	32.1	88	48	30.2	31.1	30.7	31.5	31.9	29.9	30.8	30.4	31.2	66	30.9	31.6	31.4	32.0	32.5	30.5	31.3	31.0	31.7	32.1	88	31.2	31.8	31.7	32.3	32.7	30.8	31.4	31.3	31.9	32.3	126	31.4	32.0	31.9	32.4	32.9	31.0	31.5	31.5	32.0	32.5	126	48	30.2	31.0	30.7	31.4	31.8	30.0	30.7	30.4	31.1	66	30.9	31.6	31.4	32.0	32.5	30.4	31.2	31.1	31.7	32.1	88	31.3	31.8	31.8	32.3	32.8	30.9	31.4	31.4	31.9	32.4
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3																																																																																																																																																																																																																																																						
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88	31.3	31.8	31.8	32.3	32.8	30.9	31.4	31.4	31.9	32.4																																																																																																																																																																																																																																																						



Reference Standards: EN62560; EN62612; EN62493; EN62471; IEC/TR62471-2; EN55015; EN61000-3-2; EN61000-3-3; EN61547
European Directives: 2014/35; 2014/30; 92/31; 93/68; 2009/125 (Reg.no.1194/2012; no.244/09; no.1428/2015); 2012/27 (Reg.Del. no.874/2012 and Reg. no.1369/2017); 2011/65; 2012/19

	<p>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.</p>
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