











# Dimmer compatibility test

Project ID: 20211027

Project Name:Filament bulbs

Product/Part number:As below

Date: Oct-27-2021

Comment/Result: PASS

No.	Brand	Item No.	Mode①	Mode②	8204244 8204245		8204254 8204255 8204256 8204251 8204252 8204253		8204232		8204231		8204230		8204246		8204221		8204220		8204202 8204204 8204206 8204211		8204250		8204201 8204203 8204205												
					10W/230V		5W/230V		8W/230V		6W/230V		4W/230V		6W/230V		4W/230V		2W/230V		4W/230V		3W/230V		2W/230V												
					Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description						
					10	NIKO	310-02900	LED4	LED4	8.36	0.29	Stable dimming performance but there is visible flicker in the very beginning	4.34	0.25	Stable dimming performance and invisible flicker;The light can be dimmed to about 5%.	6.15	0.4	Stable dimming performance and invisible flicker;The light can be dimmed to about 5%.	6.2	0.34	Stable dimming performance but there is visible flicker in the very beginning	4.01	0.36	Stable dimming performance but there is visible flicker in the very beginning	5.87	0.45	Stable dimming performance and invisible flicker;The light can be turned off.	1.37	0.14	Stable dimming performance and invisible flicker;The light can be turned off.	2.98	0.21	Stable dimming performance and invisible flicker;The light can be turned off.	1.9	0.2	Stable dimming performance and invisible flicker;The light can be turned off.	1.38
8.99	0.3	4.79	0.25	6.54						0.4	4.07		0.25	5.82		0.26	3.32		0.13	1.92		0.17	3.87		0.19	2.53		0.2	1.87		0.17						
8.98	0.32	5.02	0.24	7.42						0.36	6.14		0.26	4.17		0.22	5.96		0.28	3.25		0.12	1.8		0.13	3.78		0.17	2.46		0.16	1.82		0.15			
9.02	0.4	4.59	0.24	7.39						0.37	5.99		0.26	3.63		0.23	5.75		0.26	2.94		0.24	1.83		0.22	3.87		0.21	2.53		0.19	1.88		0.16			
8.98	0.35	5.05	0.28	7.48						0.38	6.23		0.39	4.23		0.27	5.95		0.32	3.4		0.12	1.88		0.12	3.95		0.24	2.65		0.21	1.9		0.15			
11	NIKO	310-01900	LED1	LED1	8.93	0.99	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.37	0.58	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	7.4	1.1	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	5.89	0.81	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	3.9	0.66	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	5.67	0.87	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	3.44	0.16	Stable dimming performance and invisible flicker;The light can be turned off.	1.85	0.12	Stable dimming performance and invisible flicker;The light can be turned off.	3.93	0.17	Stable dimming performance and invisible flicker;The light can be turned off.	2.59	0.18	Stable dimming performance and invisible flicker;The light can be turned off.	1.9	0.14	Stable dimming performance and invisible flicker;The light can be turned off.
					9.15	1.18		4.5	0.82		8.23	1.33		6.23	0.97		3.72	0.84		4.34	1.02		Incompatible	Incompatible		Incompatible	Incompatible		Incompatible								
					8.85	1.37		4.72	0.92		7.63	1.52		5.9	1.04		3.91	0.92		5.68	1.14		3.33	0.2		1.83	0.21		3.77	0.24		2.44	0.18		1.83	0.18	
					8.81	1.54		4.89	1.01		7.65	1.62		6.07	1.18		4.02	0.99		5.82	1.24		3.25	0.24		1.82	0.21		3.78	0.27		2.43	0.24		1.81	0.22	
					8.92	0.15		4.73	0.12		7.87	0.24		5.87	0.15		3.86	0.14		5.67	0.16		3.36	0.05		1.84	0.03		3.85	0.05		2.51	0.02		1.86	0.03	
					8.84	0.21		4.74	0.19		7.83	0.28		5.89	0.21		3.96	0.22		5.68	0.21		3.44	0.03		1.86	0.06		3.86	0.08		2.57	0.06		1.88	0.06	
					8.89	0.19		4.7	0.14		7.95	0.23		5.92	0.12		3.87	0.12		5.63	0.13		3.4	0.02		1.86	0.03		3.84	0.06		2.56	0.05		1.86	0.06	
					8.84	0.25		4.75	0.16		7.93	0.26		5.93	0.23		3.94	0.21		5.67	0.19		3.45	0.04		1.89	0.03		3.91	0.09		2.57	0.09		1.9	0.08	
12	btronic	N4411N	Preset levels mode	Preset levels mode	9W	2.49	Can be turned on but Non-dimmable; Invisible flicker;	4.7	1.56	Can be turned on but Non-dimmable; Invisible flicker;	7.43	1.56	Can be turned on but Non-dimmable; Invisible flicker;	6W	1.89	Can be turned on but Non-dimmable; Invisible flicker;	4.01	1.49	Can be turned on but Non-dimmable; Invisible flicker;	5.84	1.99	Can be turned on but Non-dimmable; Invisible flicker;	3.28	0.54	Can be turned on but Non-dimmable; Invisible flicker;	1.8	0.38	Can be turned on but Non-dimmable; Invisible flicker;	3.75	0.53	Can be turned on but Non-dimmable; Invisible flicker;	2.44	0.43	Can be turned on but Non-dimmable; Invisible flicker;	1.84	0.08	Can be turned on but Non-dimmable; Invisible flicker;
					8.95	2.43		4.73	1.56		7.48	1.56		5.95	1.93		3.89	1.54		5.92	1.86		3.32	0.58		1.83	0.42		3.74	0.52		2.4	0.43		1.82	0.06	
					9.06	0.92		4.89	0.64		7.39	1.02		6.07	0.77		3.64	0.66		5.79	0.82		3.26	0.26		1.69	0.2		3.69	0.27		2.38	0.25		1.75	0.19	
13	btronic	N4408N	LED1	LED1	9.12	1.54	Stable dimming performance but there is visible flicker in the very beginning	4.98	1.07	Stable dimming performance but there is visible flicker in the very beginning	7.45	1.7	Stable dimming performance and invisible flicker;The light can be dimmed to about 20%.	6.14	1.24	Stable dimming performance but there is visible flicker in the very beginning	3.49	1.04	Stable dimming performance but there is visible flicker in the very beginning	5.92	1.31	Stable dimming performance and invisible flicker;The light can be turned off.	3.18	0.29	Stable dimming performance and invisible flicker;The light can be turned off.	3.71	0.32	Stable dimming performance and invisible flicker;The light can be turned off.	2.41	0.31	Stable dimming performance and invisible flicker;The light can be turned off.	1.82	0.28	Stable dimming performance and invisible flicker;The light can be turned off.			





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					10W/230V		5W/230V		8W/230V		6W/230V		4W/230V		6W/230V		4W/230V		2W/230V		4W/230V		3W/230V		2W/230V												
					Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description	Max	Min	Description						
18	ellako	EUD61NPN-LC	LC1	/	8.96	0.71	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.95	0.49	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	7.5	0.81	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	6.12	0.61	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.08	0.51	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	5.89	0.63	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	3.17	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	1.72	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	3.63	0.11	Stable dimming performance and invisible flicker;The light can be turned off.	2.42	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	1.76	0.09	Stable dimming performance and invisible flicker;The light can be turned off.
					8.88	0.75	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.94	0.5	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	7.51	0.8	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	6.12	0.65	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.05	0.5	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	5.85	0.68	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	3.2	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	1.72	0.09	Stable dimming performance and invisible flicker;The light can be turned off.	3.67	0.12	Stable dimming performance and invisible flicker;The light can be turned off.	2.36	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	1.75	0.08	Stable dimming performance and invisible flicker;The light can be turned off.
					8.92	0.72	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.94	0.49	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	7.53	0.8	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	6.15	0.62	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	4.1	0.48	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	5.88	0.61	Stable dimming performance and invisible flicker;The light can be dimmed to about 10%.	3.22	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	1.74	0.08	Stable dimming performance and invisible flicker;The light can be turned off.	3.66	0.12	Stable dimming performance and invisible flicker;The light can be turned off.	2.39	0.09	Stable dimming performance and invisible flicker;The light can be turned off.	1.79	0.1	Stable dimming performance and invisible flicker;The light can be turned off.
					8.9	1.47	Unstable dimming performance	4.74	0.96	Unstable dimming performance	7.71	1.59	Unstable dimming performance	5.94	1.17	Unstable dimming performance	3.88	0.95	Unstable dimming performance	5.7	1.23	Unstable dimming performance	3.3	0.22	Unstable dimming performance	1.8	0.18	Unstable dimming performance	3.77	0.25	Unstable dimming performance	2.51	0.22	Unstable dimming performance	1.83	0.17	Unstable dimming performance
					8.95	1.45	Unstable dimming performance	4.76	0.94	Unstable dimming performance	7.73	1.63	Unstable dimming performance	5.92	1.19	Unstable dimming performance	3.95	0.98	Unstable dimming performance	5.75	1.18	Unstable dimming performance	3.32	0.2	Unstable dimming performance	1.83	0.18	Unstable dimming performance	3.75	0.23	Unstable dimming performance	2.5	0.18	Unstable dimming performance	1.79	0.18	Unstable dimming performance

### Test result:

No. 8204244, 8204245: The ones with better compatibility are: 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10( LED6, LED8 Mode )/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204251, 8204252, 8204253, 8204254, 8204255, 8204256: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10( LED6, LED8 Mode )/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204232: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /14/15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204231, 8204239, 8204240: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10(DEFAULT 1, Transformer LED3, LED6, LED8Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/11/12 (Dimming modeMode) /15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204230: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/11/12 (Dimming modeMode) /15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204246: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /12 (Dimming modeMode) /15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204221: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10(DEFAULT 1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /12 (Dimming modeMode) /13/14(LED1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED4, Transformer LED5, LED6, LED7\*, LED8\*Mode)/15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204220: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10(DEFAULT 1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /12 (Dimming modeMode) /13/14(LED1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED4, Transformer LED5, LED6, LED7\*, LED8\*Mode)/15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204202, 8204204, 8204206, 8204211: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10(DEFAULT 1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /12 (Dimming modeMode) /13/14(LED1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED4, Transformer LED5, LED6, LED7\*, LED8\*Mode)/15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204250: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10(DEFAULT 1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /12 (Dimming modeMode) /13/14(LED1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED4, Transformer LED5, LED6, LED7\*, LED8\*Mode)/15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )

No. 8204201, 8204203, 8204205: The ones with better compatibility are 1/2/5 (Mode 2; 4LED2, 5 Prog,6 Strd)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 Mode )/8/9/10(DEFAULT 1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/11(LED1, LED3\*, LED4\*, LED5, LED6, LED7\*, LED8\*Mode)/12 (Dimming modeMode) /12 (Dimming modeMode) /13/14(LED1, LED4, Transformer LED5, LED6,LED7, LED8Mode)/11(LED1, LED4, Transformer LED5, LED6, LED7\*, LED8\*Mode)/15/17(AUTO, LC1,LC2,LC3, Mode )/18(AUTO, LC1,LC2,LC3, Mode )