



Dimmer compatibility test

Project Name: Fluke series

Report No.:20210910-2

Product/Part number: 3422117,3422112

Date:Sep-10th-2021

Comment/Result: TBD

Inspector:Tuan

No.	Brand	Item No.	Mode①	Mode②	DUT-1-3422117			DUT-2-3422112		
					12W/230V/50Hz			12W/230V/50Hz		
					Max	Min	Description	Max	Min	Description
			Fluocompa ct*	Progressiv e switch- off	17.94W	5.52W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.99	5.48W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				Night light	17.95W	5.43W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.02W	5.54W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				100%	17.99W	5.42W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.98W	5.48W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				No function	17.93W	5.48W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.98W	5.37W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				Progressiv e switch- off	17.96W	2.2W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18W	2.25W	Stable dimming performance but the light is still on in the Min position;No visible flicker.

hager	EVN012	Capacitive loads(CFL)	Night light	17.95W	2.16W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.91W	2.2W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			100%	17.91W	2.2W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.94W	2.19W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			No function	17.96W	2.23W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.99W	2.19W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
		Inductive loads	Progressiv e switch-off	18.23W	2.28W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.15W	2.29W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Night light	18.18W	2.22W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.16W	2.27W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			100%	18.25W	2.31W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.23W	2.28W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			No function	18.22W	2.3W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.18W	2.33W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
		LED load	Progressiv e switch-off	18.32W	3.68W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.3W	3.75W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Night light	18.3W	3.62W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.34W	3.69W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			100%	18.29W	3.64W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.22W	3.66W	Stable dimming performance but the light is still on in the Min position;No visible flicker.

1				No function	18.28W	3.95W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.32W	3.71W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Load tracking(C FL+LED)	Progressive switch-off	17.94W	3.62W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.94W	3.66W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				Night light	17.91W	3.67W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.97W	3.64W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				100%	17.82W	3.64W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.72W	3.66W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				No function	17.87W	3.64W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.88W	3.65W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Factory reset	Progressive switch-off	18W	2.2W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.92W	2.2W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				Night light	18.25W	1.84W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.26W	1.78W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				100%	18.13W	1.82W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.15W	1.85W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				No function	17.98W	1.84W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18W	1.82W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
2	hager	EVN011			17.97W	2.22W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.94W	2.17W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
		E	EC1				Incompatibility			Incompatibility

3	eltako	EUD12NPN-UC	EC2				Incompatibility			Incompatibility
			LC1				Incompatibility			Incompatibility
			LC2				Incompatibility			Incompatibility
			LC3				Incompatibility			Incompatibility
4	eltako	EUD12D-UC	EUD		17.94W		Can be turned on&off but Non-dimmable.No visible flicker.	17.85W		Can be turned on&off but Non-dimmable.No visible flicker.
			RTD				Incompatibility			Incompatibility
			ESV		17.9W		Can be turned on but Non-dimmable ;The timer switch functions is working normally;No visible flicker.	17.84W		Can be turned on but Non-dimmable ;The timer switch functions is working normally;No visible flicker.
			TLZ		17.83W		Can be turned on but Non-dimmable ;The timer switch functions is working normally;No visible flicker.	17.87W		Can be turned on but Non-dimmable ;The timer switch functions is working normally;No visible flicker.
			MIN		18.1W		Can be turned on&off but Non-dimmable.No visible flicker.	18W		Can be turned on&off but Non-dimmable.No visible flicker.
			MMX		17.87W		Can be turned on&off but Non-dimmable.No visible flicker.	17.92W		Can be turned on&off but Non-dimmable.No visible flicker.
			TI				Incompatibility			Incompatibility
			ER				Incompatibility			Incompatibility
			ON		17.87W		Function is available	17.77W		Function is available
			OFF				Function is available			Function is available
			1		17.72W	0.32W	Incompatibility	17.7W	0.31W	Incompatibility
			2		17.94W	0.09W	Stable dimming performance but the light is still on and dimming light in the Min position; No visible flicker.	18W	0.11W	Stable dimming performance but the light is still on and dimming light in the Min position; No visible flicker.

5	schneider	CCTDD20016	3 Prog		17.75W	0.16W	Stable dimming performance but the light is still on and dimming light in the Min position; No visible flicker.	17.82W	0.13W	Stable dimming performance but the light is still on and dimming light in the Min position; No visible flicker.
			4 LED2		17.94W	0.14W	Stable dimming performance and it can be turned off;No visible flicker	17.97W	0.16W	Stable dimming performance and it can be turned off;No visible flicker
			5 Prog		17.74W	0.11W	Stable dimming performance and it can be turned off;No visible flicker	17.79W	0.13W	Stable dimming performance and it can be turned off;No visible flicker
			6 Strd		17.86W		Can be turned on but Non-dimmable.No visible flicker.	17.75W		Can be turned on but Non-dimmable.No visible flicker.
			7 ON		17.84W		Can be turned on but Non-dimmable.No visible flicker.	17.79W		Can be turned on but Non-dimmable.No visible flicker.
	Legrandoc	002671	White	Green	18W	2.77W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.87W	2.78W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				Orange	18.06W		Can be turned on&off but Non-dimmable.	17.94W		Can be turned on&off but Non-dimmable.
				White	17.92W	2.89W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.87W	2.9W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
				Blue	18.06W		Can be turned on&off but Non-dimmable.	17.96W		Can be turned on&off but Non-dimmable.
				Red	17.75W	6.75W	The lamp can be dimmed in the Min position,Not Max position;	17.93W	6.72W	The lamp can be dimmed in the Min position,Not Max position;
			Red							
			Green							
			Orange							

			Blue							
7	NIKO	310-00700	1		17.94W	2.05W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.88W	2.04W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			2				Incompatibility			Incompatibility
			CFLI1		17.87W	3.16W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.82W	3.13W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			CFLI2		18.5W	3.39W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.48W	3.45W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED1		18.04W	0.29W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.92W	0.31W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED2		18.03W	0.52W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.04W	0.38W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED3		18.03W	0.34W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.95W	0.3W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED4		18.09W	0.42W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.06W	0.42W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
8	NIKO	310-04900			17.82W	2.17W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.83W	2.17W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
9	NIKO	310-02800			18.13W	0.9W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.11W	0.9W	Stable dimming performance but the light is still on in the Min position;No visible flicker.

10	NIKO	310-02900	DEFAULT 1		18.85W	2.15W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.84W	2.1W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			HALO				Incompatibility			Incompatibility
			Transformer LED3				Incompatibility			Incompatibility
			LED4		16.37W		Can be turned on but Non-dimmable	16.32W		Can be turned on but Non-dimmable
			Transformer LED5		18.08W	0.4W	Stable dimming performance but the light is still on in the Min position;There is visible flicker.	18.05W	0.38W	Stable dimming performance but the light is still on in the Min position;There is visible flicker.
			LED6		18.88W	0.36W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.84W	0.38W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED7		18.04W	0.69W	Incompatibility	18.01W	0.57W	Incompatibility
			LED8		18.82W	0.34W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.84W	0.39W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
		31	LED1		18W	1.99W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.04W	2.01W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED2				Incompatibility			Incompatibility
			LED3 *				Incompatibility			Incompatibility
			LED4*		18.55W	3.38W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.63W	3.35W	Stable dimming performance but the light is still on in the Min position;No visible flicker.

11	NIKO	10-01900	LED5		17.92W	0.28W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.03W	0.3W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED6		17.97W	0.4W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.19W	0.38W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED7*		17.93W	0.28W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18W	0.29W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED8*		18.04W	0.37W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.07W	0.35W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
12	bticino	N4411N	Preset levels mode		13.3W	5.72W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	13.56W	5.32W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Preset levels mode+night mode		13.55W	5.25W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	13.64W	5.6W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Dimming mode		18.06W	1.58W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.08W	1.67W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
13	bticino	N4408N			18.95W	5.54W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.93W	5.65W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED1		18.85W	2.43W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.88W	2.45W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			HALO LED2				Incompatibility			Incompatibility
			Transformer LED3*				Incompatibility			Incompatibility

14	NIKO	310-03900	LED4		16.45W	0.52W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	16.53W	0.54W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			Transformer LED5		17.92W	0.56W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.98W	0.56W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED6		18.89W	0.48W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.76W	0.49W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED7*		17.97W	0.57W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.99W	0.61W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LED8*		18.74W	0.54W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.72W	0.51W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
15	eltako	EUD61NP-L-230V	P-AB		17.96W	1.42W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.82W	1.48W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			P-AN		18.61W	1.91W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.68W	1.88W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
16	eltako	EUD61NP-L-230V			0.64W	0.64W	Incompatibility	0.66W	0.66W	Incompatibility
		EUD61NP-L-230V	AUTO		17.95W	1.3W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	17.97W	1.28W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LC1		18.76W	1.47W	Sames as above	18.57W	1.5W	Sames as above

17	eltako	61NPN-230V	LC2		18.74W	1.46W	Sames as above	18.64W	1.49W	Sames as above
			LC3		18.8W	1.49W	Sames as above	18.87W	1.48W	Sames as above
			EC1		18.05W	3.24W	Sames as above	18.12W	3.22W	Sames as above
			EC2		18.04W	3.26W	Sames as above	18.08W	3.06W	Sames as above
18	eltako	EUD61NPN-UC	AUTO		18.02W	1.33W	Stable dimming performance but the light is still on in the Min position;No visible flicker.	18.01W	1.31W	Stable dimming performance but the light is still on in the Min position;No visible flicker.
			LC1		18.62W	1.45W	Sames as above	18.6W	1.47W	Sames as above
			LC2		18.62W	1.5W	Sames as above	18.63W	1.48W	Sames as above
			LC3		18.63W	1.48W	Sames as above	18.58W	1.54W	Sames as above
			EC1		17.9W	3.2W	Sames as above	18W	3.16W	Sames as above
			EC2		18.05W	3.2W	Sames as above	18.02W	3.2W	Sames as above

Test result: 3422117 and 3422112 are use the same LED module and driver, there is no significant difference in the matching results between DUT(1&2) and the same dimmer; The ones with better dimming compatiblity are No.1/2/ 5 (Mode 2; 3Prog;4LED2, 5Prog)/No.6(White Mode: Green, White)/No.7 (Mode 1, CFL1, CFL2,LED1, LED2 ,LED3, LED4 Mode) /No.8/9//10(DEFAULT 1, LED6, LED8Mode)/No.11(LED1, LED3*, LED4*, LED5, LED6, LED7*, LED8*Mode)/No.12/13/14(LED1,LED4, Transformer LED5,LED6, LED7*,LED8*,Mode),/No.15/17/18.

3422117



3422112

