

## 8202709 dimmer compatibility test

Project: AR111 12,4W 4000K 30°

| No.           | Supplier               | Item No. | mode①                                    | mode②   | 8202709    |       |  |
|---------------|------------------------|----------|--|---|------------|-------|--|
|               |                        |          |  |   | 12,4W/230V |       |  |
|               |                        |          |  |   | Max        | Min   | Description  |
| 1             | hager                  | EVN012   | Fluocompact*<br><b>(Yellow)</b>          | 1. Progressive switch-off   | 13.87W     | 1.51W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          |  | 2. Night light  | 13.88W     | 1.49W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          |  | 3. 100%   | 13.85W     | 1.5W  | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          |  | 4. No function  | 13.85W     | 1.48W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          | Capacitive loads(CFL)<br><b>(Purple)</b> | 1. Progressive switch-off   | 13.84W     | 0.73W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 6%.  |
|               |                        |          |  | 2. Night light  | 13.83W     | 0.73W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 6%.  |
|               |                        |          |  | 3. 100%   | 13.83W     | 0.69W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 6%.  |
|               |                        |          |  | 4. No function  | 13.82W     | 0.7W  | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 6%.  |
|               |                        |          | Inductive loads<br><b>(Blue)</b>         | 1. Progressive switch-off   | 13.74W     | 1.06W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          |  | 2. Night light  | 13.72W     | 1.03W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          |  | 3. 100%   | 13.74W     | 1.03W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          |  | 4. No function  | 13.75W     | 1.02W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          | LED load<br><b>(Red)</b>                 | 1. Progressive switch-off   | 13.95W     | 1.6W  | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          |  | 2. Night light  | 13.94W     | 1.62W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          |  | 3. 100%   | 13.93W     | 1.64W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          |  | 4. No function  | 13.92W     | 1.61W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 13%. |
|               |                        |          | Load tracking(CFL+LED)<br><b>(Green)</b> | 1. Progressive switch-off   | 13.88W     | 1.1W  | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          |  | 2. Night light  | 13.86W     | 1.06W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          |  | 3. 100%   | 13.87W     | 1.06W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
|               |                        |          |  | 4. No function  | 13.87W     | 1.06W | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 9%.  |
| Factory reset | Progressive switch-off | 13.85W   | 0.75W                                    | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 6%. |            |       |  |
|               | Night light            | 13.86W   | 0.73W                                    | Stable dimming performance and there's invisible flicker during dimming. The light can be dimmed to 6%. |            |       |  |

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|--------|----------|-------------|---------|-------------|------------|-------|--|
|        |          |             |         |             | 12,4W/230V |       |  |
|        |          |             |         |             | Max        | Min   | Description  |
|        |          |             | (White) | 100%        | 13.85W     | 0.76W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%. |
|        |          |             |         | No function | 13.86W     | 0.74W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%. |
| 2      | hager    | EVN011      |         |             | 13.87W     | 0.72W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%. |
| 3      | eltako   | EUD12NPN-UC | AUTO    |             |            |       |  |
|        |          |             | EC1     |             |            |       |  |
|        |          |             | EC2     |             |            |       |  |
|        |          |             | LC1     |             |            |       |  |
|        |          |             | LC2     |             |            |       |  |
|        |          |             | LC3     |             |            |       |  |
| 4      | eltako   | EUD12D-UC   | EUD     |             | 13.44W     |       | Non-dimmable   |
|        |          |             | RTD     |             |            |       | Non-dimmable   |
|        |          |             | ESV     |             | 13.41W     |       | Can be turned on but Non-dimmable  |
|        |          |             | TLZ     |             | 13.43W     |       | Can be turned on but Non-dimmable  |
|        |          |             | MIN     |             | 13.58W     |       | Can be turned on but Non-dimmable  |
|        |          |             | MMX     |             | 13.56W     |       | Can be turned on but Non-dimmable  |
|        |          |             | TI      |             |            |       | Imcompatibility  |
|        |          |             | ER      |             |            |       | Imcompatibility  |
|        |          |             | ON      |             | 13.41W     |       | Function is available  |
|        |          |             | OFF     |             |            |       | Function is available  |
|        |          |             | 5       | schneider   | CCTDD20016 | 1     |  |
| 2      |          | 14.05W      |         |             |            | 0.04W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%. |
| 3 Prog |          |             |         |             |            |       | Imcompatibility  |
| 4 LED2 |          | 13.91W      |         |             |            | 0.04W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%. |
| 5 Prog |          |             |         |             |            |       | Imcompatibility  |
| 6 Strd |          | 13.4W       |         |             |            | 0.15W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%. |
| 7 ON   |          | 13.41W      |         |             |            |       | Can be turned on but Non-dimmable  |
|        |          |             |         |             |            | Green | 13.96W   |



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| No. | Supplier  | Item No.  | mode① | mode②            | 8202709    |       |   |
|-----|-----------|-----------|-------|------------------|------------|-------|---|
|     |           |           |       |                  | 12,4W/230V |       |   |
|     |           |           |       |                  | Max        | Min   | Description   |
| 6   | Legrandoc | 002671    | White | Orange           | 13.4W      |       | Non-dimmable  |
|     |           |           |       | White            | 13.95W     | 1.24W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 9%.  |
|     |           |           |       | Blue             | 13.39W     |       | Non-dimmable  |
|     |           |           |       | Red              | 13.98W     | 2.86W | Can only dimmed to the Min position and it's 20%  |
|     |           |           |       | Red              |            |       |   |
|     |           |           |       | Green            |            |       |   |
|     |           |           |       | Orange           |            |       |   |
| 7   | NIKO      | 310-00700 |       | 1                | 13.81W     | 0.6W  | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.  |
|     |           |           |       | 2                |            |       | Imcompatibility   |
|     |           |           |       | CFLI1            | 13.81W     | 0.7W  | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.  |
|     |           |           |       | CFLI2            | 13.89W     | 1.37W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 11%. |
|     |           |           |       | LED1             | 13.79W     | 0.18W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |
|     |           |           |       | LED2             | 13.61W     | 0.21W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |
|     |           |           |       | LED3             | 13.76W     | 0.17W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |
|     |           |           |       | LED4             | 13.58W     | 0.22W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |
| 8   | NIKO      | 310-04900 |       |                  | 12.92W     | 0.64W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.  |
| 9   | NIKO      | 310-02800 |       |                  | 13.88W     | 0.29W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |
| 10  | NIKO      | 310-02900 |       | DEFAULT 1        | 14.06W     | 1.32W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 11%. |
|     |           |           |       | HALO LED2        | 14.08W     | 1.08W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 9%.  |
|     |           |           |       | Transformer LED3 | 14.06W     | 0.74W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.  |
|     |           |           |       | LED4             | 8.18W      | 0.22W | Dimming range is limited and it's from 2%-68%.  |
|     |           |           |       | Transformer LED5 | 13.91W     | 0.26W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |



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|-----|----------|-----------|-------------------------------|-------|------------|---------|---|
|     |          |           |                               |       | 12,4W/230V |         |   |
|     |          |           |                               |       | Max        | Min     | Description   |
|     |          |           | LED6                          |       | 14.04W     | 0.36W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.  |
|     |          |           | LED7                          |       | 13.92W     | 0.25W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 2%.  |
|     |          |           | LED8                          |       | 14.08W     | 0.38W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.  |
| 11  | NIKO     | 310-01900 | LED1                          |       | 13.81W     | 0.5W    | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.  |
|     |          |           | LED2                          |       |            |         | Imcompatibility   |
|     |          |           | LED3 *                        |       | 13.82W     | 0.71W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.  |
|     |          |           | LED4*                         |       | 13.84W     | 1.38W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 11%. |
|     |          |           | LED5                          |       | 13.77W     | 0.12,4W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%.  |
|     |          |           | LED6                          |       | 13.53W     | 0.17W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%.  |
|     |          |           | LED7*                         |       | 13.73W     | 0.15W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%.  |
|     |          |           | LED8*                         |       | 13.54W     | 0.17W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 1%.  |
| 12  | bticino  | N4411N    | Preset levels mode            |       | 13.96W     | 1.32W   | Non-dimmable  |
|     |          |           | Preset levels mode+night mode |       | 14W        | 1.32W   | Non-dimmable  |
|     |          |           | Dimming mode                  |       | 14W        | 0.53W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 4%.  |
| 13  | bticino  | N4408N    |                               |       | 14.22W     | 1.85W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 15%. |
| 14  | NIKO     | 310-03900 | LED1                          |       | 14.02W     | 1.4W    | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 13%. |
|     |          |           | HALO LED2                     |       |            |         | Imcompatibility   |
|     |          |           | Transformer LED3*             |       |            |         | There always flicker during dimming   |
|     |          |           | LED4                          |       | 8.36W      | 0.31W   | Dimming range is limited and it's from 3%-70%.  |
|     |          |           | Transformer LED5              |       | 13.89W     | 0.35W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.  |
|     |          |           | LED6                          |       | 14.04W     | 0.48W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 4%.  |
|     |          |           | LED7*                         |       | 13.9W      | 0.32W   | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.  |



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|-----|----------|---------------|-------|-------|------------|-------|---|
|     |          |               |       |       | 12,4W/230V |       |   |
|     |          |               |       |       | Max        | Min   | Description   |
|     |          |               | LED8* |       | 14.04W     | 0.44W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 4%.        |
| 15  | eltako   | EUD61NPL-230V | P-AB  |       | 14.06W     | 0.71W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.        |
|     |          |               | P-AN  |       | 14.36W     | 0.85W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.        |
| 16  | eltako   | EUD61NP-230V  |       |       |            |       | Incompatibility   |
| 17  | eltako   | EUD61NPN-230V | AUTO  |       | 13.46W     | 0.38W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.        |
|     |          |               | LC1   |       | 13.9W      | 0.65W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.        |
|     |          |               | LC2   |       | 13.87W     | 0.67W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 4%.        |
|     |          |               | LC3   |       | 13.9W      | 0.66W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 4%.        |
|     |          |               | EC1   |       | 13.79W     | 0.73W | Slow dimming response performance and there's invisible flicker during dimming.The light can be dimmer to 6%. |
|     |          |               | EC2   |       | 13.37W     | 0.7W  | Slow dimming response performance and there's invisible flicker during dimming.The light can be dimmer to 6%. |
| 18  | eltako   | EUD61NPN-UC   | AUTO  |       | 13.39W     | 0.37W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 3%.        |
|     |          |               | LC1   |       | 13.91W     | 0.63W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.        |
|     |          |               | LC2   |       | 13.87W     | 0.66W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.        |
|     |          |               | LC3   |       | 13.86W     | 0.69W | Stable dimming performance and there's invisible flicker during dimming.The light can be dimmed to 6%.        |
|     |          |               | EC1   |       | 13.79W     | 0.73W | Slow dimming response performance and there's invisible flicker during dimming.The light can be dimmer to 6%. |
|     |          |               | EC2   |       | 13.4W      | 0.7W  | Slow dimming response performance and there's invisible flicker during dimming.The light can be dimmer to 6%. |

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| No.   | Supplier | Item No. | mode① | mode②       | 8202709   |  |  |
|---|----------|----------|-------|-------------|---|--|--|
|   |          |          |       |             | 12,4W/230V  |  |  |
|   |          |          |       |             |  |  |  |
|   |          | Max      | Min   | Description |   |  |  |
| <p>8202709 AR111 12,4W 4000K 30° Test result :</p> <p>8202709 and dimmers are compatible with the following models are 1/2/5(1;2; 4LED2, 6 Strd mode )/6(White mode 下 : Green, White)/7( 1,CFLI1 ,CFLI2, LED1, LED2,LED3,LED4 mode )/8/9/10( DEFAULT 1,HALO LED2,Transformer LED3 ,Transformer LED5, LED6, LED7,LED8 mode )/11(LED1, LED3*, LED4*, LED5, LED6, LED7*, LED8* mode)/12 (Dimming mode) /13/14(LED 1,Transformer LED5, LED6, LED7*, LED8* mode )/15/17(AUTO, LC1,LC2,LC3, mode )/18(AUTO, LC1,LC2,LC3, mode )</p> |          |          |       |             |   |  |  |

