

Operation of LED-Retrofit Lamps  
LED Star Classic RL-A40 with various Dimmers



RL-A40 frosted  
43620818

Legend: green dimmability very good (under 25% light)  
red dimmability critical (flicker and/or sound possible, and/or no less than 25% light)  
white not tested / out of working range of dimmer

| Manufacturer      | Dimmer-Type, Model     | Load Range [W]             | Dimmer type        | No. of lamps |   |   |   |   |    |    |    |   | tested "OK" |
|-------------------|------------------------|----------------------------|--------------------|--------------|---|---|---|---|----|----|----|---|-------------|
|                   |                        |                            |                    | 1            | 2 | 3 | 5 | 8 | 10 | 15 | 20 | x |             |
| ABB               | 2250 U                 | 60 ~ 600 W                 | Turn               |              |   |   |   |   |    |    |    |   | 2-20        |
| ABB               | 6513 U - 102           | 40 ~ 420 W                 | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| ABB               | 6523 U                 | 2 ~ 100 VA-LED             | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| ABB               | 6526 U                 | 2 ~ 100 VA-LED             | Push (2 wire)      |              |   |   |   |   |    |    |    |   | 1-20        |
| ABB               | 6523 U-102             | 2 - 100W                   | Turn- Leading      |              |   |   |   |   |    |    |    |   | 1-20        |
| ABB               | 6523 UR-103            | 2 - 400W                   | Turn- Leading      |              |   |   |   |   |    |    |    |   | 1-20        |
| Berker            | 286710                 | 20 ~ 360 W                 | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| Berker            | 2973                   | 3 - 60W                    | Turn               |              |   |   |   |   |    |    |    |   | 1-18        |
| Bticino           | BTN4411N               | 3 - 75W                    | Tast               |              |   |   |   |   |    |    |    |   | 1-20        |
| Busch Jaeger      | 2250 U                 | 60 ~ 600 W                 | Turn               |              |   |   |   |   |    |    |    |   | 2-20        |
| Busch Jaeger      | 6513 U - 102           | 40 ~ 420 W                 | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| Busch Jaeger      | 6523 U                 | 2 ~ 100 VA-LED             | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| Busch Jaeger      | 6526 U                 | 2 ~ 100 VA-LED             | Push (2 wire)      |              |   |   |   |   |    |    |    |   | 1-20        |
| Busch Jaeger      | 6523 U-102             | 2 - 100W                   | Turn- Leading      |              |   |   |   |   |    |    |    |   | 1-20        |
| Busch Jaeger      | 6523 UR-103            | 2 - 400W                   | Turn- Leading      |              |   |   |   |   |    |    |    |   | 1-20        |
| Eltako            | EVD61NPN-UC            | 400W                       | Push (3 wire)      |              |   |   |   |   |    |    |    |   | 1-20        |
| Eltako            | EUD61NPL-230V          | 4 - 200W                   | R, Leading         |              |   |   |   |   |    |    |    |   | 1-20        |
| Feller            | 40200                  | 4 ~ 200W(RC) 4~400W(RL)    | RL, RC             |              |   |   |   |   |    |    |    |   | 1-20        |
| Feller            | 40300                  | 300W                       | RLC                |              |   |   |   |   |    |    |    |   | 1-19        |
| Feller            | 40200.LED.EB           | 4 - 20VA RL / 4 - 100VA RC | RL, RC             |              |   |   |   |   |    |    |    |   | 1-6         |
| GIRA              | 1176-00/01             | 50 ~ 420W                  | RLC                |              |   |   |   |   |    |    |    |   | 1-20        |
| Gira              | 5401 00                | 3 - 100W/200W              | Tast               |              |   |   |   |   |    |    |    |   | 1-20        |
| Gira              | 2450 00                | 3 - 60W                    | Turn               |              |   |   |   |   |    |    |    |   | 1-18        |
| Hager             | EVN 011                | 300VA                      | RC                 |              |   |   |   |   |    |    |    |   | 1-18        |
| Hager             | EVN 012                | 300W                       | RC                 |              |   |   |   |   |    |    |    |   | 1-18        |
| Hager             | EVN 004                | 500VA                      | RL                 |              |   |   |   |   |    |    |    |   | 1-20        |
| Jung              | 1271LEDDE              | 3 ~ 100W                   | Push (3 wire)      |              |   |   |   |   |    |    |    |   | 1-20        |
| Jung              | 1711DE                 | 3 - 100W/200W              | Tast               |              |   |   |   |   |    |    |    |   | 1-20        |
| Jung              | 1730DD                 | 3 - 60W                    | Turn               |              |   |   |   |   |    |    |    |   | 1-18        |
| Klik aan Klik uit | AWMD-250               | 3~ 24W                     |                    |              |   |   |   |   |    |    |    |   | 1-7         |
| Legrand           | BTN4411N               | 3 - 75W                    | Tast               |              |   |   |   |   |    |    |    |   | 1-20        |
| Legrand           | 67083                  | 3 ~ 400W                   | RLC                |              |   |   |   |   |    |    |    |   | 1-20        |
| Legrand           | 67084                  | 8 -300 VA                  | RLC, Push (3 wire) |              |   |   |   |   |    |    |    |   | 1-20        |
| Legrand           | 67085 (078406)         | 8 -300 VA                  | RLC, Push (3 wire) |              |   |   |   |   |    |    |    |   | 1-18        |
| Legrand           | L4402N                 | 60~500W                    | R                  |              |   |   |   |   |    |    |    |   | 1-20        |
| Merten            | MEG5134-0000           | 4 ~ 200W(RC) 4~400W(RL)    | RC                 |              |   |   |   |   |    |    |    |   | 1-20        |
| Merten            | MEG5136-0000           | 315W                       | RC                 |              |   |   |   |   |    |    |    |   | 1-19        |
| Merten            | MEG5300-000            | 4 - 20VA RL / 4 - 100VA RC | RL, RC             |              |   |   |   |   |    |    |    |   | 1-6         |
| MK - Electric     | K1535                  | 65 ~ 450 W                 | Turn               |              |   |   |   |   |    |    |    |   | 2-20        |
| MK - Electric     | K1501 WHILV            | 60 ~ 500 W                 | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| MK - Electric     | K4501 WHILV            | 180W                       | RLC                |              |   |   |   |   |    |    |    |   | 1-11        |
| MK - Electric     | K4500 WHILV            | 400W                       | RLC                |              |   |   |   |   |    |    |    |   | 2-20        |
| NIKO              | 310-0280X              | 2 ~100 VA                  |                    |              |   |   |   |   |    |    |    |   | 1-20        |
| Niko              | 310-02901              | 3 - 200W                   | Tast               |              |   |   |   |   |    |    |    |   | 1-20        |
| Niko              | 310-03901              | 3 - 200W                   | Turn               |              |   |   |   |   |    |    |    |   | 1-20        |
| PEHA              | 431HAN                 | 6~120W RL / 6~60W          | RL                 |              |   |   |   |   |    |    |    |   | 1-18        |
| Philips           | UID8670                | 2 ~ 100 VA-LED             | Push (3 wire)      |              |   |   |   |   |    |    |    |   | 1-20        |
| RELCO             | RP0977                 | 4-100W                     |                    |              |   |   |   |   |    |    |    |   | 1-20        |
| RELCO             | RM0545                 | 4-100W                     |                    |              |   |   |   |   |    |    |    |   | 1-20        |
| Schneider         | SBD200LED              | 4 ~ 200W(RC) 4~400W(RL)    | RL, RC             |              |   |   |   |   |    |    |    |   | 1-20        |
| Schneider         | SBD315RC (315 GLE )    | 315W                       | RC                 |              |   |   |   |   |    |    |    |   | 1-19        |
| Schneider         | CCT99100               | 4 - 20VA RL / 4 - 100VA RC | RL, RC             |              |   |   |   |   |    |    |    |   | 1-6         |
| Schneider         | SBD315RC               | 315W                       | RC                 |              |   |   |   |   |    |    |    |   | 1-19        |
| Schneider         | SBD200 (WDE 002299)    | 4~400VA                    | Turn - Universal   |              |   |   |   |   |    |    |    |   | 1-20        |
| Schneider         | SAE dimmer puck        | 4 - 20VA RL / 4 - 100VA RC | RL, RC             |              |   |   |   |   |    |    |    |   | 1-6         |
| SE LK             | LK FUGA LED-S 120VA    | 4 - 120W                   | Slider RL          |              |   |   |   |   |    |    |    |   | 1-20        |
| SE LK             | LK OPUS 66 LED-S 120VA | 4 - 120W                   | Slider RL          |              |   |   |   |   |    |    |    |   | 1-20        |
| VADSBO            | VD300                  | 0 - 300VA                  | Turn               |              |   |   |   |   |    |    |    |   | 1-18        |
| Varilight         | HQ3W                   | 60-400W                    | R                  |              |   |   |   |   |    |    |    |   | 1-20        |

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red dimmability critical (flicker and/or sound possible, and/or no less than 25% light)  
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| Manufacturer | Dimmer-Type, Model       | Load Range [W] | Dimmer type    | No. of lamps |   |   |   |   |    |    |    | tested "OK" |      |
|--------------|--------------------------|----------------|----------------|--------------|---|---|---|---|----|----|----|-------------|------|
|              |                          |                |                | 1            | 2 | 3 | 5 | 8 | 10 | 15 | 20 | x           |      |
| Vimar        | 20148                    | 500W           | RL             |              |   |   |   |   |    |    |    |             | 1-20 |
| Vimar        | Universal dimmer 20135.1 | 3 - 200W       | Tast           |              |   |   |   |   |    |    |    |             | 1-20 |
| Vimar        | Universal dimmer 20136.1 | 3 - 200W       | Turn- Leading  |              |   |   |   |   |    |    |    |             | 1-20 |
|              |                          | 3 - 200W       | Turn- Trailing |              |   |   |   |   |    |    |    |             | 1-20 |

Typical values. Test performed with regarded lamps named. The test results reflect the measurement of the individual devices that were used in tests.  
Radium does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using successor models of the tested devices or different models of the same manufacturer. The test results were achieved by using the above mentioned LED-lamp types.

Radium does not take over any responsibility, warranty or liability that these results can also be achieved by using the devices under other conditions or when using other LED-lamp types.

Due to the big number of electronic components and many other influence factors noise can emerge in unfavourable condiditons, which may be well audible in the case of resonance.

Generally speaking, employment of trailing edge dimmers is recommended. They require the neutral wire for installation.

Changes, errors and omissions excepted.