

# Operation of LED-Retrofit Lamps LED Star Globe RL-G with various Dimmers



**Radium**  
Die Lichtmarke



**G95 100**

43920123

|         |        |                                                                                          |
|---------|--------|------------------------------------------------------------------------------------------|
| Legend: | green  | dimmability very good (under 25% light)                                                  |
|         | yellow | dimmable (under 40% light)                                                               |
|         | red    | dimmability critical (flickering and/or sound possible, and/or only more than 40% light) |
|         | white  | not tested                                                                               |

T: Trailing edge phase dimmer  
L: Leading edge phase dimmer  
U: Universal dimmer

| Manufacturer    | Dimmer-Type, Model      | Mains/<br>Power | Load Range [W] | Dimming<br>Method | 1 Lamp | 4 Lamps |
|-----------------|-------------------------|-----------------|----------------|-------------------|--------|---------|
| 2001            | 63533                   | 230/50Hz        | 29,08          | T                 | 51-0%  |         |
| 2007            | 63533                   | 230/50Hz        | 24,08          | T                 |        |         |
| ABB             | STD 50-3                | 230/50Hz        | 60-500         | L                 | 95-18% | 93-19%  |
| Altenburger     | 50,3                    | 230/50Hz        |                |                   | 92-19% |         |
| AURORA          | DSP 400                 | 230/50Hz        | 400            | L                 |        | 91-0%   |
| Bticino         | L/N/NT4411NHC/HD/HS4411 | 230/50Hz        |                |                   | 92-5%  | 94-0%   |
| bticino         | NT4402N                 | 230/50Hz        | 500            | R                 | 89-20% | 89-21%  |
| Busch-Jaeger    | 6513 U-102              | 230/50Hz        | 420            | T                 | 93-26% | 90-16%  |
| Busch-Jaeger    | 6523 U-102              | 230/50Hz        | 40-420         | T                 | 89-0%  | 92-14%  |
| Busch-Jaeger    | 2250 U                  | 230/50Hz        | 60-600         | L                 | 86-0%  | 95-0%   |
| CENTURY CONTROL | MULTI DIMMER            | 230/50Hz        | 60-600         | U                 | 91-1%  | 95-0%   |
| DimMax          | 420 SL                  | 230/50Hz        | 200            | L/T               | 100-2% | 99-2%   |
| DINUY           | RE EL1 LE1              | 230/50Hz        | 400            | LED               | 99-24% | 97-23%  |
| ELKO            | 400GLI                  | 230/50Hz        |                |                   |        | 88-4%   |
| ELKO            | 315GLE                  | 230/50Hz        | 20-315         | T                 |        |         |
| ELKO            | 600GLE/I                | 230/50Hz        |                |                   | 91-0%  | 93-15%  |
| ELKO            | 600GLI                  | 230/50Hz        | 40-600         | U                 | 90-0%  | 91-8%   |
| ELKO            | 420GLE/I                | 230/50Hz        | 40-420         | U                 | 96-5%  | 93-5%   |
| ELKO            | 1000LRI                 | 230/50Hz        |                |                   | 99-0%  | 98-0%   |
| ELKO            | 630GLE                  | 230/50Hz        | 20-630         | U                 | 93-19% | 88-13%  |
| Eltako          | EUD61NPN-UC             | 230/50Hz        | 5-400          | R / L / C         | 88-0%  | 87-0%   |
| Feller          | 40200.LEDxxx            | 230/50Hz        |                |                   | 89-14% | 85-10%  |
| Feller          | 40600 RLC               | 230/50Hz        | 20-600         | U                 | 91-0%  | 93-15%  |
| Feller          | 40600.RC                | 230/50Hz        |                |                   | 93-19% | 88-13%  |
| Feller          | 40600.RL                | 230/50Hz        |                |                   | 90-0%  | 91-8%   |
| Feller          | 40420.RLC               | 230/50Hz        |                |                   | 96-5%  | 93-5%   |
| Feller          | 31000                   | 230/50Hz        |                |                   | 99-0%  | 98-0%   |
| GIRA            | 226200                  | 230/50Hz        |                |                   | 92-14% | 94-3%   |
| Gira            | 030700                  | 230/50Hz        | 20-525         | T                 | 92-19% | 87-11%  |
| Gira            | 217400                  | 230/50Hz        | 4X20-250       | KNX-U             | 97-16% | 93-10%  |
| Hager           | WUD87                   | 230/50Hz        | 400            | LED-U             | 87-18% | 89-12%  |
| Hamilton        | KP1X40                  | 230/50Hz        | 400            |                   |        |         |
| Hugo Müller     | paladin 872110 led      | 230/50Hz        |                |                   | 99-24% | 97-23%  |
| Jung            | 225 NVDE                | 230/50Hz        | 20-500         | L                 | 92-14% | 94-3%   |
| Jung            | 225 TDE                 | 230/50Hz        |                |                   | 92-19% | 87-11%  |
| Jung            | 3904 REGHE              | 230/50Hz        |                |                   | 97-16% | 93-10%  |
| Legrand         | 665114                  | 230/50Hz        | 400            | U                 | 92-5%  | 94-0%   |
| Legrand         | 574319/574339           | 230/50Hz        | 400            | U                 | 92-5%  | 94-0%   |
| Legrand         | 572239/572739           | 230/50Hz        | 400            | U                 | 92-5%  | 94-0%   |
| Legrand         | 078407/079207           | 230/50Hz        | 400            | U                 | 92-5%  | 94-0%   |
| Legrand         | 048869/048871           | 230/50Hz        | 400            | U                 | 92-5%  | 94-0%   |
| Legrand         | 067083/048869           | 230/50Hz        | 400            | U                 | 92-5%  | 94-0%   |
| Legrand         | 770062                  | 230/50Hz        | 400            | RLC               | 83-0%  | 83-0%   |
| MASTER          | DM-DGL                  | 230/50Hz        | 1000           | U / LED           |        |         |
| MASTER          | DM-2500                 | 230/50Hz        | 2500           | U / LED           | 99-0%  | 97-0%   |
| Merten          | MEG5136-0000            | 230/50Hz        |                |                   |        |         |
| Merten          | MEG5134-0000            | 230/50Hz        |                |                   | 89-14% | 85-10%  |
| Merten          | MEG5139-0000            | 230/50Hz        |                |                   | 91-0%  | 93-15%  |
| Merten          | MEG5137-0000            | 230/50Hz        |                |                   | 93-19% | 88-13%  |
| Merten          | MEG5133-0000            | 230/50Hz        |                |                   | 90-0%  | 91-8%   |
| Merten          | MEG5138-0000            | 230/50Hz        |                |                   | 96-5%  | 93-5%   |
| Merten          | MEG 5170-0300           | 230/50Hz        | 10-200         | U                 | 85-15% |         |

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| Manufacturer | Dimmer-Type, Model | Mains/<br>Power | Load Range [W] | Dimming<br>Method | 1 Lamp | 4 Lamps |
|--------------|--------------------|-----------------|----------------|-------------------|--------|---------|
| Merten       | MEG 5131           | 230/50Hz        | 40-400         | L                 | 91-0%  | 94-0%   |
| Merten       | MEG 5132           | 230/50Hz        |                |                   | 91-0%  | 94-0%   |
| Merten       | MEG 5140           | 230/50Hz        | 9-100          | L                 | 83-0%  | 86-0%   |
| Merten       | MEG 5135           | 230/50Hz        | 60-1000        | L                 | 99-0%  | 98-0%   |
| MK           | K4501              | 230/50Hz        | 180            | L                 | 80-3%  | 86-7%   |
| NEXUS        | 881P-01            | 230/50Hz        | 400            | L                 | 79-0%  | 97-0%   |
| NIKO         | 310-0190001901     | 230/50Hz        | 5-200          | U                 | 100-0% | 97-0%   |
| Odace        | S520512            | 230/50Hz        |                |                   | 89-14% | 85-10%  |
| Odace        | S520511            | 230/50Hz        |                |                   | 90-0%  | 91-8%   |
| Odace        | S520515            | 230/50Hz        |                |                   | 96-5%  | 93-5%   |
| Odace        | S520518            | 230/50Hz        |                |                   | 83-0%  | 86-0%   |
| Osram        | HTi DALI 315 DIM   | 230/50Hz        | 20-315         | DALI-T            |        | 97-6%   |
| PEHA         | 435 HAN            | 230/50Hz        | 60-600         | L                 | 82-4%  | 84-2%   |
| Schneider    | 400GLI             | 230/50Hz        | 40-400         | T                 |        | 88-4%   |
| Schneider    | SBD315RC           | 230/50Hz        |                |                   |        |         |
| Schneider    | SBD200LED          | 230/50Hz        | 400            |                   | 89-14% | 85-10%  |
| Schneider    | SBD600RCRL         | 230/50Hz        |                |                   | 91-0%  | 93-15%  |
| Schneider    | SBD630RC           | 230/50Hz        |                |                   | 93-19% | 88-13%  |
| Schneider    | SBD600RL           | 230/50Hz        |                |                   | 90-0%  | 91-8%   |
| Schneider    | SBD420RCRL         | 230/50Hz        |                |                   | 96-5%  | 93-5%   |
| Schneider    | 5170               | 230/50Hz        |                |                   | 85-15% |         |
| Schneider    | SBD400RL           | 230/50Hz        |                |                   | 91-0%  | 94-0%   |
| Schneider    | SBDSP1             | 230/50Hz        |                |                   | 83-0%  | 86-0%   |
| Schneider    | ATTD1000RL         | 230/50Hz        |                |                   | 99-0%  | 98-0%   |
| Shuttle      | SDIM-T-LED-500W    | 230/50Hz        | 2-500          | T & LED-T         | 94-2%  | 93-3%   |
| Siemens      | 5TC8 284           | 230/50Hz        | 20-525         | T                 | 75-14% | 61-3%   |
| Siemens      | 5WG1-527-1AB31     | 230/50Hz        | 20-500         | KNX-U             |        |         |
| theben       | DIMAX 544 plus P   | 230/50Hz        | 250            | T                 |        |         |
| theben       | DIMAX 534 plus     | 230/50Hz        | 400            | T                 | 97-6%  | 97-0%   |
| VADSBO       | LD 220             | 230/50Hz        | 1-200          | U                 | 99-0%  |         |
| VARILIGHT    | HQ3W               | 230/50Hz        | 400            |                   | 83-18% |         |
| Vimar        | 20135              | 230/50Hz        | 3 - 100        | U                 | 94-2%  | 92-2%   |
| NIKO         | 330-0070000701     | 230/50Hz        | 5-200          | U                 | 95-32% | 93-26%  |
| ZANO         | WH401              | 230/50Hz        | 400            | L                 |        |         |
| ZANO         | WH251              | 230/50Hz        | 250            |                   | 65-0%  | 94-0%   |
| ZANO         | Z GRID 600         | 230/50Hz        | 250            | T                 | 93-0%  | 97-0%   |
| ZANO         | Z GRID 500         | 230/50Hz        | 500            |                   | 74-0%  | 96-0%   |

Typical values. Tests 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 conditons, 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.

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