

# Case study

Individual lighting and control solutions promote employee well-being

Siemens headquarters –  
Munich, Germany





The completely redesigned Siemens headquarters in Munich offer an inspiring working environment with variable space and usage concepts on a floor area of 45,000 square meters.

The high requirements placed on lighting in terms of energy efficiency and flexibility provide ideal conditions in all parts of the building; with individual lighting concepts optimizing visibility and promoting the well-being of approximately 1,200 employees.

All LED luminaires are equipped with DALI LED drivers for maximum energy savings and can be controlled and monitored via the central building control system. With the help of daylight and presence sensors in the building, the lights can be used and dimmed based on demand, thereby saving even more energy.

In the meeting rooms of the historic Palais Ludwig Ferdinand, LINEARlight FLEX® LED modules create special visual accents. The flexible LED modules provide indirect lighting in the coves surrounding the central meeting rooms.

[www.osram.com/siemens-hq](http://www.osram.com/siemens-hq)





# Index and general information

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# Glossary of the most important lighting terms

As with any technical or scientific discipline, lighting technology has its own special terms and concepts for defining the characteristics of light sources and fixtures and for standardizing the units of measurement.

The most important terms are described here.

## Luminous flux $\Phi$

Unit of measurement: lumen [lm]

Luminous flux  $\Phi$  is all the radiated power emitted by a light source evaluated with the spectral sensitivity of the eye and the photometric radiation equivalent  $k_m$ .

## Luminous intensity $I$

Unit of measurement: candela [cd]

Generally speaking, a light source emits its luminous flux  $\Phi$  in different directions and at different intensities.

Luminous intensity is the luminous flux radiated in a particular direction (solid angle  $\Omega$ ).

## Illuminance $E$

Unit of measurement: lux [lx]

Illuminance  $E$  is the ratio between the luminous flux and the area being illuminated.

An illuminance of 1 lx occurs when a luminous flux of 1 lm is evenly distributed over an area of 1 m<sup>2</sup>.

## Luminance $L$

Unit of measurement:  
candela per square meter [cd/m<sup>2</sup>]

The luminance  $L$  of a light source or an illuminated area is a measure of the impression of brightness.

## Luminous efficacy $\eta$

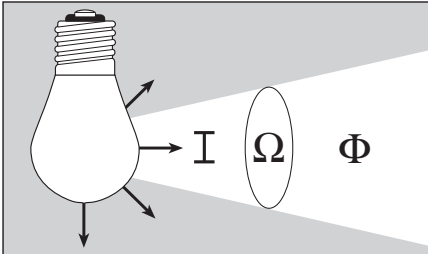
Unit of measurement:  
lumen per watt [lm/W]

Luminous efficacy  $\eta$  indicates the efficiency with which the electrical power consumed is converted into light.

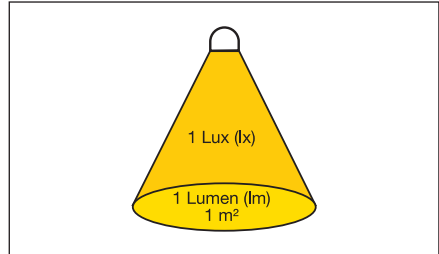


## Light and radiation

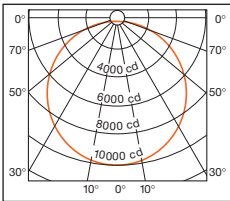
Light is taken to mean the electromagnetic radiation that the human eye perceives as brightness, in other words that part of the spectrum that can be seen. This is the radiation between 380 and 780 nm, a tiny fraction of the known spectrum of electromagnetic radiation.



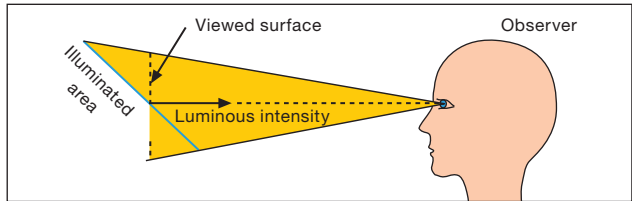
Luminous intensity  $I$  is a measure of the luminous flux  $\Phi$  emitted in a solid angle  $\Omega$ .



Illuminance  $E$



Polar diagram



Luminance  $L$

The most important photometric formulae:

|                            |     |
|----------------------------|-----|
| Luminous intensity<br>[cd] | $I$ |
| Illuminance<br>[lx]        | $E$ |

|  |  |
|--|--|
| Luminous flux [lm]<br>Solid angle $\Omega$ [sr]                          |  |
| Luminous flux falling on area [lm]<br>Illuminated area [m <sup>2</sup> ] |  |

|                                   |        |
|-----------------------------------|--------|
| Luminance<br>[cd/m <sup>2</sup> ] | $L$    |
| Luminous efficacy<br>[lm/W]       | $\eta$ |

|   |  |
|---|--|
| Luminous intensity [cd]<br>Viewed luminous area [m <sup>2</sup> ] |  |
| Generated luminous flux [lm]<br>Electrical power consumed [W]     |  |



## Color temperature

Unit of measurement: Kelvin [K]

The color temperature of a light source is defined in comparison with a “black body radiator” and plotted on what is known as the “Planckian curve”. The higher the temperature of this “black body radiator”, the greater the blue component in the spectrum and the smaller the red component. A light source with a warm white light, for example, has a color temperature of 2,700 K, whereas a daylight light source has a color temperature of 6,000 K.

## Light color

The light color of a light source can be neatly defined in terms of color temperature.

There are three main categories here:

Warm White < 3,300 K

Cool White 3,300–5,300 K

Daylight > 5,300 K

Despite having the same light color, light sources may have very different color rendering properties owing to the spectral composition of their light.

## Color rendering

As a rule, artificial light should enable the human eye to perceive colors correctly, as it would in natural daylight. Obviously, this depends to some extent on the location and purpose for which light is required.

The criterion here is the color rendering property of a light source. This is expressed as a “general color rendering index” ( $R_a$ ).

The color rendering index is a measure of the correspondence between the color of an object (its “self-luminous color”) and its appearance under a reference light source. To determine the  $R_a$  values, eight

test colors defined in accordance with DIN 6169 are illuminated with the reference light source and the light source under test. The smaller the discrepancy, the better the color rendering property of the lamp being tested.

A light source with an  $R_a$  value of 100 displays all colors exactly as they appear under the reference light source. The lower the  $R_a$  value, the worse the colors are rendered.

## Luminaire efficiency

Luminaire efficiency (also known as light output ratio) is an important criterion in gauging the energy efficiency of a luminaire. This is the ratio between the luminous flux emitted by the luminaire and the luminous flux of the light source installed in the luminaire.

## Average life

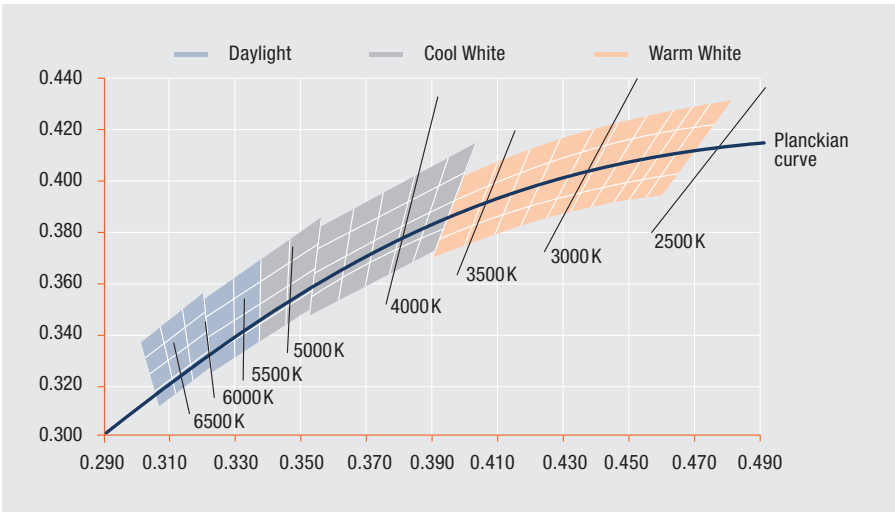
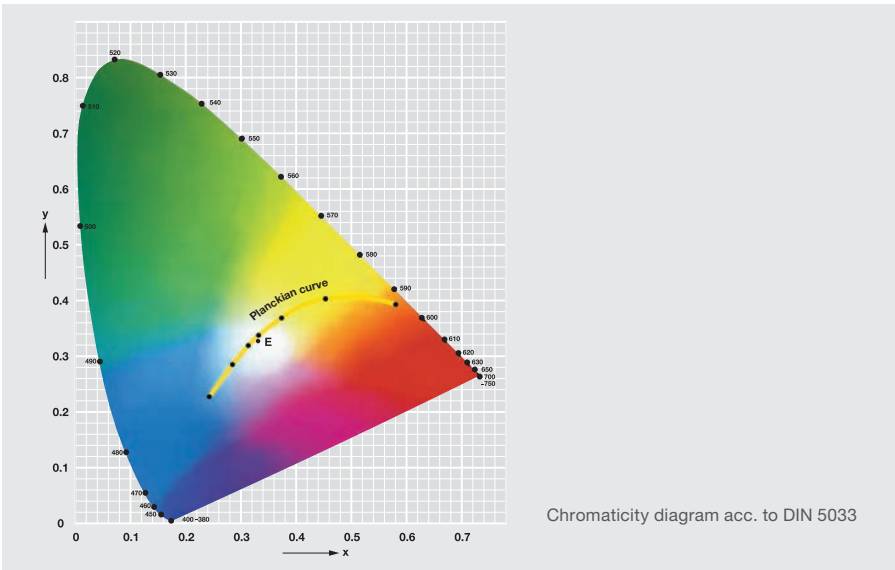
The average life of a light source is an average of the lives of individual lamps operated under standard conditions (50 % failure = average rated life).

## Service life

Service life is a simple practical measure of the economical life of a light source. It is the number of hours of operation after which the system luminous flux (i.e. the product of the relative luminous flux and the relative proportion of light sources still in operation) is around 80 % of the initial value.







Extract from the chromaticity diagram showing the Planckian curve





# Alphanumeric product references

| Product name                | GTIN (EAN)    | Page |
|-----------------------------|---------------|------|
| <b>0-9</b>                  |               |      |
| 4P4C CONNECTION CABLE 100CM | 4008321660169 | 4.97 |
| 4P4C CONNECTION CABLE 200CM | 4008321660190 | 4.97 |
| 4P4C CONNECTION CABLE 25CM  | 4008321660145 | 4.97 |
| 4P4C CONNECTION CABLE 50CM  | 4008321660152 | 4.97 |

**B**

|                            |               |       |
|----------------------------|---------------|-------|
| BA-AR-G1 2500-830 540X270  | 4052899989238 | 2.23  |
| BA-AR-G1 2500-840 540X270  | 4052899989252 | 2.23  |
| BA-DS-PL 865 G3            | 4052899990548 | 2.143 |
| BA-ECO-M-PL 865            | 4052899392465 | 2.138 |
| BA-L-PL 830 G3             | 4052899990463 | 2.141 |
| BA-L-PL 840 G3             | 4052899990449 | 2.141 |
| BA-L-PL 865 G3             | 4052899990425 | 2.141 |
| BA-LIN-Z2 1100-830 280X20  | 4052899989788 | 2.15  |
| BA-LIN-Z2 1100-840 280X20  | 4052899989801 | 2.15  |
| BA-LIN-Z2 1550-830 560X20  | 4052899989825 | 2.15  |
| BA-LIN-Z2 1550-840 560X20  | 4052899989849 | 2.15  |
| BA-LIN-Z2 2200-830 560X20  | 4052899989863 | 2.15  |
| BA-LIN-Z2 2200-840 560X20  | 4052899989887 | 2.15  |
| BA-LIN-Z2 4400-830 1120X20 | 4052899989900 | 2.15  |
| BA-LIN-Z2 4400-840 1120X20 | 4052899989924 | 2.15  |
| BA-M-PL 830 HO             | 4052899504707 | 2.140 |
| BA-M-PL 840 HO             | 4052899504721 | 2.140 |
| BA-M-PL 865 D              | 4052899300491 | 2.139 |
| BA-M-PL 865 HO             | 4052899504745 | 2.140 |
| BA-M-PL-830 D              | 4052899300538 | 2.139 |
| BA-M-PL-840 D              | 4052899300514 | 2.139 |
| BA-M-PL-RD D               | 4052899300552 | 2.139 |
| BA-MP                      | 4052899145863 | 2.154 |
| BA-RGBW-PL G2              | 4052899452930 | 2.144 |
| BA-S-PL 830 G3             | 4052899504592 | 2.137 |
| BA-S-PL 840 G3             | 4052899504615 | 2.137 |
| BA-S-PL 865 G3             | 4052899504639 | 2.137 |
| BA-S-PL BL D               | 4052899300675 | 2.136 |
| BA-S-PL GN D               | 4052899300651 | 2.136 |
| BA-S-PL RD D               | 4052899300637 | 2.136 |
| BA-SM-MP                   | 4052899264540 | 2.154 |
| BA-TW-PL 827-865 G2        | 4052899452954 | 2.145 |
| BA-XL-PL 830 G3            | 4052899990524 | 2.142 |
| BA-XL-PL 840 G3            | 4052899990500 | 2.142 |
| BA-XL-PL 865 G3            | 4052899990487 | 2.142 |
| BlockLED ECO G1 840        | 4052899990661 | 2.146 |
| BlockLED ECO G1 850        | 4052899990685 | 2.146 |
| BlockLED ECO G1 865        | 4052899990708 | 2.146 |
| BX-DS-MB                   | 4008321872173 | 2.157 |
| BX-DS-MP                   | 4008321880307 | 2.156 |
| BX-ECO-M-PL 830            | 4052899947030 | 2.148 |
| BX-ECO-M-PL 840            | 4052899947016 | 2.148 |
| BX-ECO-M-PL 865            | 4052899946996 | 2.148 |

| Product name    | GTIN (EAN)    | Page  |
|-----------------|---------------|-------|
| BX-L-PL 765 G3  | 4052899990623 | 2.151 |
| BX-L-PL 830     | 4052899200517 | 2.150 |
| BX-L-PL 840 G3  | 4052899990760 | 2.151 |
| BX-M-PL 830     | 4052899493155 | 2.149 |
| BX-M-PL 840     | 4052899493179 | 2.149 |
| BX-M-PL 865     | 4052899493193 | 2.149 |
| BX-MP           | 4008321981110 | 2.155 |
| BX-XS-PL 830 G3 | 4052899989733 | 2.147 |
| BX-XS-PL 840 G3 | 4052899989719 | 2.147 |
| BX-XS-PL 865 G3 | 4052899989696 | 2.147 |
| BXI-L-PL 830 G1 | 4052899518230 | 2.152 |
| BXI-L-PL 840 G1 | 4052899518216 | 2.152 |
| BXI-L-PL 865 G1 | 4052899518193 | 2.152 |

**C**

|                   |               |      |
|-------------------|---------------|------|
| CABLE CLAMP K2    | 4008321190727 | 5.61 |
| CABLE CLAMP QT-K3 | 4008321190741 | 5.61 |
| CPR30-USB         | 4055462165169 | 3.74 |

**D**

|                              |               |      |
|------------------------------|---------------|------|
| DALI ACU BT CON              | 4052899544819 | 4.23 |
| DALI CON LI                  | 4050300638973 | 4.78 |
| DALI CON SO                  | 4050300639802 | 4.79 |
| DALI ECU                     | 4052899016842 | 4.56 |
| DALI HIGHBAY ADAPTER         | 4008321774132 | 4.67 |
| DALI LS/PD CI                | 4052899930292 | 4.66 |
| DALI LS/PD LI                | 4052899043954 | 4.65 |
| DALI magic                   | 4052899039551 | 3.72 |
| DALI MCU                     | 4008321189721 | 4.30 |
| DALI MCU TW                  | 4052899465916 | 4.31 |
| DALI PCU                     | 4052899955622 | 4.29 |
| DALI PRO Cont-4 RTC          | 4008321710871 | 4.50 |
| DALI PRO PB Coupler          | 4008321496461 | 4.73 |
| DALI PRO Sensor Coupler      | 4008321379269 | 4.68 |
| DALI REP LI                  | 4008321292599 | 4.76 |
| DALI REP SO                  | 4008321301093 | 4.77 |
| DALI Sensor Coupler E        | 4052899230491 | 4.72 |
| DALI Sensor Coupler HF LS LI | 4052899141728 | 4.70 |
| DALI SWITCH SO               | 4008321533364 | 4.74 |
| DALIECO BT CONTROL           | 4052899988781 | 4.22 |
| DALIECO CONTROL              | 4008321988645 | 4.14 |
| DALIECO LS/PD LI             | 4008321988652 | 4.17 |
| DALIECO LS/PD LI NP          | 4052899914636 | 4.16 |
| DALIECO Remote PC KIT        | 4052899195967 | 4.19 |
| DALIECO SWARM ADAPTER        | 4052899955646 | 4.15 |
| DE1-W4F-830-G3               | 4052899474741 | 2.53 |
| DE1-W4F-850-G3               | 4052899474772 | 2.53 |
| DIM MCU                      | 4050300347424 | 4.32 |
| DIM MICO                     | 4008321586056 | 4.40 |
| DIM MULTI                    | 4050300554471 | 4.38 |

| Product name                    | GTIN (EAN)    | Page  | Product name                         | GTIN (EAN)    | Page  |
|---------------------------------|---------------|-------|--------------------------------------|---------------|-------|
| DIM PICO                        | 4050300554457 | 4.39  | FX-DCS-G1-ECT-KIT20                  | 4052899452107 | 2.125 |
| DIM SA                          | 4008321097095 | 4.80  | FX-DCS-G1-EHS-KIT20                  | 4052899452206 | 2.126 |
| DUO                             | 4008321496355 | 4.37  | FX-DCS-G1-EHT-KIT20                  | 4052899452176 | 2.125 |
| <b>E</b>                        |               |       | FX-DCS-G1-GL-25                      | 4052899452244 | 2.125 |
| EBN-OS                          | 4006584548019 | 5.53  | FX-DCS-G1-GL-25                      | 4052899452244 | 2.126 |
| ECO CI Kit                      | 4008321392091 | 4.100 | FX-LFDM-G1-BS-12H13                  | 4052899452541 | 2.126 |
| EINST-BASIC-BIN2                | 4052899989634 | 1.05  | FX-LFDM-G1-BSL-12H13E9               | 4052899452572 | 2.126 |
| EINST-BASIC-BUN2                | 4052899989641 | 1.05  | FX-LFDM-G1-BT-17H11                  | 4052899452480 | 2.125 |
| EINST-CVT-KIB2                  | 4052899986923 | 1.04  | FX-LFDM-G1-BTL-17H11E9               | 4052899452510 | 2.125 |
| EINST-CVT-KIN2                  | 4052899986961 | 1.04  | FX-LFDM-G1-TS-16H16-200              | 4052899544925 | 2.126 |
| EINST-CVT-KUB2                  | 4052899986947 | 1.04  | FX-LFDM-G1-TT-16H16-200 4X5          | 4052899544949 | 2.125 |
| EINST-CVT-KUN2                  | 4052899986985 | 1.04  | FX-LFDM-G1-ITL-16H11W10-200 4X5      | 4052899544963 | 2.125 |
| ELEMENT 10/220...240/250 S      | 4052899552869 | 3.47  | FX-QME-G1-EXGP-T810G12H25            | 4052899450080 | 2.129 |
| ELEMENT 12/220...240/300 S      | 4052899552883 | 3.47  | FX-QME-G1-T810G12H25-300             | 4052899448759 | 2.129 |
| ELEMENT 15/220...240/350 S      | 4052899552906 | 3.47  | FX-QMS-G1-BMZ1-DIV1                  | 4052899446861 | 2.131 |
| ELEMENT 18/220...240/350 D CS L | 4052899553071 | 3.36  | FX-QMS-G1-BMZ1-DIV1                  | 4052899446861 | 2.125 |
| ELEMENT 20/220...240/500 S      | 4052899552920 | 3.47  | FX-QMS-G1-BMZ1-DIV1                  | 4052899446861 | 2.126 |
| ELEMENT 25/220...240/600 S      | 4052899552944 | 3.47  | FX-QMS-G1-BMZ1-T45D19H19             | 4052899446960 | 2.131 |
| ELEMENT 30/220...240/24         | 4052899463776 | 3.52  | FX-QMS-G1-CFDB-300                   | 4052899446991 | 2.130 |
| ELEMENT 30/220...240/700 S      | 4052899552999 | 3.47  | FX-QMS-G1-CLT-300                    | 4052899447783 | 2.130 |
| ELEMENT 33/220...240/800 S      | 4052899553019 | 3.47  | FX-QMS-G1-EFGP-T45D19H19             | 4052899450028 | 2.131 |
| ELEMENT 35/220...240/800 CS L   | 4052899553132 | 3.36  | FX-QMS-G1-EFGP-TU15H6                | 4052899449107 | 2.131 |
| ELEMENT 38/220...240/900 S      | 4052899553033 | 3.47  | FX-QMS-G1-EFGP-TU15H6W3              | 4052899449138 | 2.131 |
| ELEMENT 40/220...240/350 D CS L | 4052899553095 | 3.36  | FX-QMS-G1-EFGP-TU16H12L5             | 4052899449183 | 2.131 |
| ELEMENT 44/220...240/1050 S     | 4052899553057 | 3.47  | FX-QMS-G1-EFGP-TU16H12W3             | 4052899449817 | 2.131 |
| ELEMENT 55/220...240/1200 CS L  | 4052899553156 | 3.36  | FX-QMS-G1-ELGP-TU16H12L5             | 4052899449879 | 2.131 |
| ELEMENT 6/220...240/150 S       | 4052899552821 | 3.47  | FX-QMS-G1-T45D19H19-300              | 4052899448667 | 2.130 |
| ELEMENT 60/220...240/24         | 4052899463790 | 3.52  | FX-QMS-G1-TR19H16-300                | 4052899449008 | 2.130 |
| ELEMENT 60/220...240/350 D CS L | 4052899553118 | 3.36  | FX-QMS-G1-TU15H6-300                 | 4052899448865 | 2.130 |
| ELEMENT 8/220...240/200 S       | 4052899552845 | 3.47  | FX-QMS-G1-TU15H6W3-300               | 4052899448889 | 2.130 |
| ELEMENT 90/220...240/24         | 4052899463813 | 3.52  | FX-QMS-G1-TU16H12-300                | 4052899448964 | 2.130 |
| EN-SCPPH-0450-ZB                | 4052899957343 | 4.85  | FX-QMS-G1-TU16H12L5-300              | 4052899449046 | 2.130 |
| EN-SCPPH-1500-ZB                | 4052899989337 | 4.86  | FX-QMS-G1-TU16H12W3-300              | 4052899448988 | 2.130 |
| EN-SCPPH-HB-ZB                  | 4052899989344 | 4.87  | FX-QMW-G1-CFDB-300                   | 4052899447806 | 2.133 |
| EN-SSU-1U                       | 4008321791535 | 4.58  | FX-QMW-G1-CRD-300                    | 4052899447035 | 2.133 |
| EN-WM-ZB-P3D                    | 4052899957336 | 4.57  | FX-QMW-G1-EFGP-L-TK30D46H27          | 4052899450059 | 2.133 |
| EN-WS-ZB-ZB-WH                  | 4052899989290 | 4.88  | FX-QMW-G1-EFGP-PC30                  | 4052899450165 | 2.133 |
| EN-WS-SC3-ZB-WH                 | 4052899957367 | 4.91  | FX-QMW-G1-EFGP-R-TK30D46H27          | 4052899449909 | 2.133 |
| EN-WS-SC5-ZB-WH                 | 4052899989313 | 4.92  | FX-QMW-G1-EFGP-TU26H25               | 4052899450240 | 2.133 |
| EN-WS-ZC3-ZB-WH                 | 4052899989306 | 4.89  | FX-QMW-G1-EFGP-TU26H25W10            | 4052899450134 | 2.133 |
| EN-WS-ZC6-ZB-WH                 | 4052899989320 | 4.90  | FX-QMW-G1-EFGP-TU26H25W2             | 4052899450219 | 2.133 |
| ENDCAP for LIN-DIFFUSER         | 4052899376670 | 2.26  | FX-QMW-G1-ERGP-TU26H8                | 4052899450271 | 2.133 |
| ET-PARROT 105/220...240 I       | 4008321111579 | 5.59  | FX-QMW-G1-P125C30-DIV1-300           | 4052899449060 | 2.133 |
| ET-PARROT 70/220...240 I        | 4008321111593 | 5.59  | FX-QMW-G1-SMME-DIV1                  | 4052899446830 | 2.133 |
| <b>F</b>                        |               |       | FX-QMW-G1-SRME-DIV1                  | 4052899446786 | 2.133 |
| FX-DCS-G1-CM2PF-IP67-500-X5     | 4052899451971 | 2.125 | FX-QMW-G1-TK30D46H27-300             | 4052899448827 | 2.133 |
| FX-DCS-G1-CM2PF-IP67-500-X5     | 4052899451971 | 2.126 | FX-QMW-G1-TU26H25-300                | 4052899448803 | 2.133 |
| FX-DCS-G1-CM2PF-IP67-SIDEKIT5   | 4052899452015 | 2.126 | FX-QMW-G1-TU26H25W10-300             | 4052899448773 | 2.133 |
| FX-DCS-G1-CM2PF-IP67-TOPKIT5    | 4052899451995 | 2.125 | FX-QMW-G1-TU26H25W2-300              | 4052899448841 | 2.133 |
| FX-DCS-G1-CM2PJ-IP67-0190-X5    | 4052899452039 | 2.125 | FX-QMW-G1-TU26H8-300                 | 4052899448643 | 2.133 |
| FX-DCS-G1-CM2PJ-IP67-0190-X5    | 4052899452039 | 2.126 | FX-QMW-G1-XCLPL1-DIV1                | 4052899446731 | 2.133 |
| FX-DCS-G1-CM2PJ-IP67-SIDEKIT5   | 4052899452077 | 2.126 | FX-SC08-G1-FW4P-LIN-0030 (extension) | 4008321875587 | 2.123 |
| FX-DCS-G1-CM2PJ-IP67-TOPKIT5    | 4052899452053 | 2.125 | FX-SC08-G1-FW4P-LIN-0150 (extension) | 4008321875653 | 2.123 |
| FX-DCS-G1-ECS-KIT20             | 4052899452121 | 2.126 | FX-SC08-G1-FW4P-LIN-0300 (extension) | 4052899469259 | 2.123 |
|                                 |               |       | FX-SC08-G2-BTJ-IP54 (IP54 boot)      | 4052899568853 | 2.124 |



| Product name                                       | GTIN (EAN)    | Page  |
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| FX-SC08-G2-C2PF-IP54-0500<br>(2pin with IP54 boot) | 4052899464889 | 2.124 |
| FX-SC08-G2-CT2PF-0500 (2pin)                       | 4052899464735 | 2.123 |
| FX-SC08-G2-CT2PF-1000 (2pin)                       | 4052899464766 | 2.123 |
| FX-SC08-G2-CT3PF-0500HF (3pin)                     | 4052899482999 | 2.123 |
| FX-SC08-G2-CT3PFE-0500HF (3pin)                    | 4052899483026 | 2.123 |
| FX-SC08-G2-CT4PF-0500 (4pin)                       | 4052899464797 | 2.123 |
| FX-SC08-G2-CT4PF-1000 (4pin)                       | 4052899464827 | 2.123 |
| FX-SC08-G2-CT4PJ (Jumper)                          | 4052899464858 | 2.123 |

**H**

|                                 |               |      |
|---------------------------------|---------------|------|
| HF LS LJ                        | 4052899921481 | 4.71 |
| HIGH BAY                        | 4008321410078 | 4.35 |
| HTI DALI 105/230...240 DIM      | 4008321420633 | 5.56 |
| HTI DALI 315 DIM                | 4008321957344 | 5.60 |
| HTL 105/230...240               | 4008321927019 | 5.57 |
| HTL 225/230...240               | 4008321927026 | 5.57 |
| HTM 105/230...240               | 4050300442334 | 5.58 |
| HTM 150/230...240               | 4050300581415 | 5.58 |
| HTM 70/230...240                | 4050300442310 | 5.58 |
| HTN 75/230...240 I              | 4008321073037 | 5.58 |
| HubSense Manager Wired-DALI-4CH | 4052899989771 | 4.44 |
| HubSense Manager Wireless-ZB    | 4052899989764 | 4.45 |

**K**

|                                |               |      |
|--------------------------------|---------------|------|
| KIT-PL-CN 111-2400-830-40D-G2  | 4052899365131 | 2.52 |
| KIT-PL-CN 111-3600-830-40D-G2  | 4052899365155 | 2.52 |
| KIT-PL-CN 111-3600-840-24D-G2  | 4052899365179 | 2.52 |
| KIT-PL-CN 111-3600-840-40D-G2  | 4052899365193 | 2.52 |
| KIT-PL-CN-AC 50-800-830-40D-G1 | 4052899365315 | 2.51 |
| KIT-PL-CN-AC 50-800-840-40D-G1 | 4052899365339 | 2.51 |

**L**

|                         |               |       |
|-------------------------|---------------|-------|
| LF-2CONN IP67 LP        | 4052899125735 | 2.124 |
| LF-2CONN-PROTECT        | 4008321977083 | 2.124 |
| LF-2PIN FLEX            | 4008321955326 | 2.123 |
| LF-2PIN IP67 LP         | 4052899125711 | 2.124 |
| LF-2PIN-PROTECT         | 4008321977069 | 2.124 |
| LF-2TERM FLEX           | 4008321955357 | 2.123 |
| LF-4CONN-PROTECT        | 4008321977090 | 2.124 |
| LF-4PIN FLEX            | 4008321514585 | 2.123 |
| LF-4PIN PROTECT         | 4008321977076 | 2.124 |
| LF-CLIP FIXTURE PROTECT | 4008321644749 | 2.124 |
| LF-CONN-10 FLEX         | 4008321955333 | 2.123 |
| LF-CONN-150 FLEX        | 4008321955340 | 2.123 |
| LF-ENDCAP IP67 LP       | 4052899902565 | 2.124 |
| LF-ENDCAP-PROTECT       | 4008321977106 | 2.124 |
| LF-LTS-2100             | 4008321978981 | 2.122 |
| LF-LTS-COVER-CLEAR      | 4008321790187 | 2.122 |
| LF-LTS-COVER-DIFF       | 4008321979001 | 2.122 |
| LF-LTS-COVER-SHORTPITCH | 4008321790200 | 2.122 |
| LF-LTS-ENDCAP           | 4052899387591 | 2.122 |
| LF-LTS-MB               | 4008321979025 | 2.122 |
| LF05A2-B3               | 4052899924123 | 2.85  |
| LF05CA-RGB3-P           | 4008321977205 | 2.98  |
| LF05CA2-RGB3            | 4008321851536 | 2.86  |

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| LF06A-W3F-824          | 4052899942783 | 2.85 |
| LF06A-W3F-827          | 4008321973986 | 2.85 |
| LF06A-W3F-830          | 4008321973993 | 2.85 |
| LF06A-W3F-830-P        | 4008321789983 | 2.96 |
| LF06A-W3F-840          | 4008321974006 | 2.85 |
| LF06A-W3F-840-P        | 4008321790125 | 2.96 |
| LF06A-W3F-850          | 4008321974013 | 2.85 |
| LF06A-W3F-865          | 4008321974020 | 2.85 |
| LF06A-W3F-870-P        | 4008321790149 | 2.96 |
| LF06E-830-P            | 4052899475724 | 2.97 |
| LF06E-840-P            | 4052899475809 | 2.97 |
| LF06E-880-P            | 4052899475847 | 2.97 |
| LF1200-G3-820-09       | 4052899953055 | 2.80 |
| LF1200-G3-824-09       | 4052899953062 | 2.80 |
| LF1200-G3-827-09       | 4052899953079 | 2.80 |
| LF1200-G3-830-06 45    | 4052899990029 | 2.73 |
| LF1200-G3-830-09       | 4052899953086 | 2.80 |
| LF1200-G3-840-07 45    | 4052899990043 | 2.73 |
| LF1200-G3-840-09       | 4052899953093 | 2.80 |
| LF1200-G3-850-09       | 4052899953291 | 2.80 |
| LF1200-G3-865-09       | 4052899953314 | 2.80 |
| LF1200-G3-927-09       | 4052899953321 | 2.80 |
| LF1200-G3-930-09       | 4052899953338 | 2.80 |
| LF1200-G3-940-09       | 4052899953345 | 2.80 |
| LF1200-G3-MW-04        | 4052899492103 | 2.82 |
| LF1200-G3-MWR-04       | 4052899492165 | 2.82 |
| LF1200-G3-SW30-09      | 4052899964044 | 2.80 |
| LF1200-G3-SW40-09      | 4052899964051 | 2.80 |
| LF1200-G3-VW30-04      | 4052899492141 | 2.83 |
| LF1200-G3-VW40-04      | 4052899492127 | 2.83 |
| LF1200TW-G3-827/865-09 | 4052899953161 | 2.74 |
| LF1300RGBW-G1-822-04   | 4052899525061 | 2.86 |
| LF1300RGBW-G1-827-04   | 4052899525122 | 2.86 |
| LF1300RGBW-G1-830-04   | 4052899525146 | 2.86 |
| LF1300RGBW-G1-840-04   | 4052899540620 | 2.86 |
| LF1300RGBW-G1-865-04   | 4052899525184 | 2.86 |
| LF2000-G3-820-04       | 4052899952980 | 2.78 |
| LF2000-G3-824-04       | 4052899952997 | 2.78 |
| LF2000-G3-827-04       | 4052899953000 | 2.78 |
| LF2000-G3-830-04       | 4052899953017 | 2.78 |
| LF2000-G3-830-04 45    | 4052899989986 | 2.73 |
| LF2000-G3-840-04       | 4052899953024 | 2.78 |
| LF2000-G3-840-04 45    | 4052899990005 | 2.73 |
| LF2000-G3-850-04       | 4052899953031 | 2.78 |
| LF2000-G3-865-04       | 4052899953048 | 2.78 |
| LF2000-G3-927-04       | 4052899963993 | 2.78 |
| LF2000-G3-930-04       | 4052899964006 | 2.78 |
| LF2000-G3-940-04       | 4052899964013 | 2.78 |
| LF2000-G3-MW-03        | 4052899492028 | 2.82 |
| LF2000-G3-MWR-03       | 4052899492080 | 2.82 |
| LF2000-G3-SW30-04      | 4052899964020 | 2.78 |
| LF2000-G3-SW40-04      | 4052899964037 | 2.78 |
| LF2000-G3-VW30-03      | 4052899492066 | 2.83 |
| LF2000-G3-VW40-03      | 4052899492042 | 2.83 |
| LF2000TW-G3-827/865-04 | 4052899953284 | 2.74 |
| LF200C-G3-RGB-06       | 4052899501997 | 2.86 |

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| LF2X1600TWW-G1-822.835-02 | 4052899563339  | 2.74  | LFD600S-G1-830-06          | 4052899499966 | 2.101 |
| LF2X1600TWW-G1-824.835-02 | 4052899563353  | 2.74  | LFD600S-G1-840-06          | 4052899500006 | 2.101 |
| LF3000-G3-820-03          | 4052899952911  | 2.76  | LFD600S-G1-865-06          | 4052899500044 | 2.101 |
| LF3000-G3-824-03          | 4052899952928  | 2.76  | LFD800T-G1-827-06          | 4052899499768 | 2.99  |
| LF3000-G3-827-03          | 4052899952935  | 2.76  | LFD800T-G1-830-06          | 4052899499805 | 2.99  |
| LF3000-G3-830-02 45       | 4052899989948  | 2.73  | LFD800T-G1-840-06          | 4052899499843 | 2.99  |
| LF3000-G3-830-03          | 4052899952942  | 2.76  | LFD800T-G1-865-06          | 4052899499881 | 2.99  |
| LF3000-G3-840-02 45       | 4052899989962  | 2.73  | LFP1200-G3-824-09          | 4052899481640 | 2.92  |
| LF3000-G3-840-03          | 4052899952959  | 2.76  | LFP1200-G3-827-09          | 4052899481626 | 2.92  |
| LF3000-G3-840-03          | 4052899963962  | 2.76  | LFP1200-G3-830-09          | 4052899481664 | 2.92  |
| LF3000-G3-850-03          | 4052899952966  | 2.76  | LFP1200-G3-840-09          | 4052899481688 | 2.92  |
| LF3000-G3-865-03          | 4052899952973  | 2.76  | LFP1200-G3-860-09          | 4052899481701 | 2.92  |
| LF3000-G3-927-03          | 4052899963948  | 2.76  | LFP1200-G3-930-09          | 4052899481725 | 2.92  |
| LF3000-G3-930-03          | 4052899963955  | 2.76  | LFP1200-G3-940-09          | 4052899481749 | 2.92  |
| LF3000-G3-SW30-02         | 4052899963979  | 2.76  | LFP1200-G3-960-09          | 4052899481763 | 2.92  |
| LF3000-G3-SW40-02         | 4052899963986  | 2.76  | LFP1200-G3-SW40            | 4052899501935 | 2.92  |
| LF3000TW-G3-827/865-03    | 4052899953277  | 2.74  | LFP2000-G3-824-04          | 4052899481138 | 2.90  |
| LF4000-G3-827-03          | 4052899952867  | 2.75  | LFP2000-G3-827-04          | 4052899481152 | 2.90  |
| LF4000-G3-830-03          | 4052899952874  | 2.75  | LFP2000-G3-860-04          | 4052899481176 | 2.90  |
| LF4000-G3-840-03          | 4052899952881  | 2.75  | LFP2000-G3-840-04          | 4052899481190 | 2.90  |
| LF4000-G3-850-03          | 4052899952898  | 2.75  | LFP2000-G3-860-04          | 4052899481213 | 2.90  |
| LF4000-G3-865-03          | 4052899952904  | 2.75  | LFP2000-G3-930-04          | 4052899481237 | 2.90  |
| LF4000TW-G3-827/865-02    | 4052899953260  | 2.74  | LFP2000-G3-940-04          | 4052899481251 | 2.90  |
| LF700RGBW-G1-822-06       | 4052899525221  | 2.86  | LFP2000-G3-960-04          | 4052899481275 | 2.90  |
| LF700RGBW-G1-827-06       | 4052899525269  | 2.86  | LFP2000-G3-SW40            | 4052899501911 | 2.90  |
| LF700RGBW-G1-830-06       | 4052899525306  | 2.86  | LFP200C-G3-RGB-06          | 4052899501973 | 2.98  |
| LF700RGBW-G1-840-06       | 4052899540668  | 2.86  | LFP2X1600TWW-G1-824.835-02 | 4052899563377 | 2.74  |
| LF700RGBW-G1-865-06       | 4052899525344  | 2.86  | LFP3000-G3-824-03          | 4052899481299 | 2.88  |
| LF800S-G3-824-10          | 4052899953109  | 2.84  | LFP3000-G3-827-03          | 4052899481312 | 2.88  |
| LF800S-G3-827-10          | 4052899953116  | 2.84  | LFP3000-G3-830-03          | 4052899481336 | 2.88  |
| LF800S-G3-830-10          | 4052899953123  | 2.84  | LFP3000-G3-840-03          | 4052899481350 | 2.88  |
| LF800S-G3-840-10          | 4052899953130  | 2.84  | LFP3000-G3-860-03          | 4052899481374 | 2.88  |
| LF800S-G3-850-10          | 4052899953147  | 2.84  | LFP3000-G3-860-03          | 4052899481435 | 2.88  |
| LF800S-G3-865-10          | 4052899953154  | 2.84  | LFP3000-G3-930-03          | 4052899481398 | 2.88  |
| LFD400MS-G1-BL-06         | 4052899953659  | 2.102 | LFP3000-G3-940-03          | 4052899481411 | 2.88  |
| LFD400MS-G1-GR-03         | 4052899450082  | 2.102 | LFP3000-G3-SW40            | 4052899501898 | 2.88  |
| LFD400MS-G1-GR-06         | 4052899953666  | 2.102 | LFP800-G3-824-09           | 4052899481565 | 2.94  |
| LFD400MS-G1-OR-06         | 4052899953697  | 2.102 | LFP800-G3-827-09           | 4052899481589 | 2.94  |
| LFD400MS-G1-RE-06         | 4052899953673  | 2.102 | LFP800S-G3-830-10          | 4052899953352 | 2.95  |
| LFD400MS-G1-YE-06         | 4052899953680  | 2.102 | LFP800S-G3-840-10          | 4052899953369 | 2.95  |
| LFD400MT-G1-BL-06         | 4052899953550  | 2.100 | LFP800S-G3-856-10          | 4052899953376 | 2.95  |
| LFD400MT-G1-GR-03         | 40528994500851 | 2.100 | LFP800S-G3-880-10          | 4052899953383 | 2.95  |
| LFD400MT-G1-GR-06         | 4052899953567  | 2.100 | LMS CI BOX                 | 4008321083692 | 4.100 |
| LFD400MT-G1-OR-06         | 4052899953598  | 2.100 | LS/PD AP KIT               | 4052899173385 | 4.99  |
| LFD400MT-G1-RE-06         | 4052899953574  | 2.100 | LS/PD CI KIT               | 4052899920293 | 4.99  |
| LFD400MT-G1-YE-06         | 4052899953581  | 2.100 | LS/PD DALI LI UF           | 4052899984608 | 4.64  |
| LFD400S-G1-827-06         | 4052899953611  | 2.101 | LS/PD LT2 LI UF            | 4052899984615 | 4.09  |
| LFD400S-G1-830-06         | 4052899953628  | 2.101 | LS/PD MULTI 3 CI           | 4008321916648 | 4.69  |
| LFD400S-G1-840-06         | 4052899953635  | 2.101 | LUXeye Sense 10A BT        | 4052899173385 | 4.26  |
| LFD400S-G1-865-06         | 4052899953642  | 2.101 | LUXeye Sense CM KIT        | 4052899988729 | 4.27  |
| LFD400T-G1-827-06         | 4052899953512  | 2.99  | LUXeye Sense DALI BT       | 4052899957411 | 4.25  |
| LFD400T-G1-830-06         | 4052899953529  | 2.99  |                            |               |       |
| LFD400T-G1-840-06         | 4052899953536  | 2.99  |                            |               |       |
| LFD400T-G1-865-06         | 4052899953543  | 2.99  |                            |               |       |
| LFD600S-G1-827-06         | 4052899499928  | 2.101 |                            |               |       |

## M

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|------------------|---------------|------|
| Mounting adapter | 4008321480798 | 4.98 |
|------------------|---------------|------|



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| <b>N</b>                           |               |      |
| NFC Scanner                        | 4055462203571 | 3.75 |
| <b>O</b>                           |               |      |
| OT 100/120...277/700 P5            | 4052899259065 | 3.62 |
| OT 100/120...277/800 2DIMLT2 P     | 4052899253414 | 3.65 |
| OT 100/220...240/4A2 P5            | 4052899410657 | 3.63 |
| OT 110/120...277/1A4 2DIMLT2 P     | 4052899253438 | 3.65 |
| OT 110/170...240/1A0 1DIMLT2 G1 CE | 4052899541115 | 3.64 |
| OT 110/170...240/800 4DIMLT2 G2 CE | 4052899981959 | 3.68 |
| OT 120/220...240/12 P              | 4008321790835 | 3.51 |
| OT 120/220...240/24 DIM P          | 4008321981691 | 3.49 |
| OT 120/220...240/24 P              | 4008321981707 | 3.50 |
| OT 15/220...240/12 P               | 4052899905559 | 3.51 |
| OT 150/220...240/4A9 P5            | 4052899410671 | 3.63 |
| OT 165/170...240/1A0 4DIMLT2 E     | 4052899925212 | 3.66 |
| OT 180/120...277/700 P5            | 4052899259027 | 3.62 |
| OT 20/170...240/1A0 1DIMLT2 G1 CE  | 4052899517400 | 3.64 |
| OT 20/170...240/1A0 4DIMLT2 G2 CE  | 4052899981928 | 3.68 |
| OT 20/200...240/24                 | 4050300618111 | 3.50 |
| OT 200/220...240/5A6 P5            | 4052899410695 | 3.63 |
| OT 240/220...240/24 DIM P          | 4008321981714 | 3.49 |
| OT 240/220...240/24 P              | 4008321981721 | 3.50 |
| OT 250/120...277/700 P5            | 4052899259041 | 3.62 |
| OT 30/220...240/12 P               | 4052899905542 | 3.51 |
| OT 30/220...240/24 P               | 4052899043497 | 3.50 |
| OT 40/120...277/1A0 4DIMLT2 E      | 4052899925182 | 3.66 |
| OT 40/170...240/1A0 1DIMLT2 G1 CE  | 4052899517424 | 3.64 |
| OT 40/170...240/1A0 4DIMLT2 G2 CE  | 4052899981935 | 3.68 |
| OT 50/120...277/1A2 2DIMLT2 P      | 4052899173804 | 3.65 |
| OT 50/120...277/700 P5             | 4052899259003 | 3.62 |
| OT 50/120...277/800 2DIMLT2 P      | 4052899173781 | 3.65 |
| OT 50/220...240/24                 | 4052899905566 | 3.50 |
| OT 50/220...240/24 P               | 4052899043510 | 3.50 |
| OT 6/200...240/24 CE               | 400832113269  | 3.50 |
| OT 60/170...240/1A0 4DIMLT2 E      | 4052899925199 | 3.66 |
| OT 60/220...240/12 P               | 4008321790811 | 3.51 |
| OT 75/170...240/1A0 1DIMLT2 G1 CE  | 4052899541092 | 3.64 |
| OT 75/170...240/1A0 4DIMLT2 G2 CE  | 4052899981942 | 3.68 |
| OT 75/220...240/24                 | 4050300817477 | 3.50 |
| OT 75/220...240/24 E               | 4008321362476 | 3.50 |
| OT 80/220...240/24 DIM P           | 4008321981677 | 3.49 |
| OT 80/220...240/24 P               | 4008321981684 | 3.50 |
| OT 90/170...240/1A0 4DIMLT2 E      | 4052899925205 | 3.66 |
| OT BLE DIM                         | 4052899557833 | 3.53 |
| OT CABLE CLAMP A-STYLE             | 4052899089570 | 3.67 |
| OT CABLE CLAMP A-STYLE TL          | 4052899325982 | 3.67 |
| OT CABLE CLAMP B-STYLE             | 4052899077881 | 3.67 |
| OT CABLE CLAMP B-STYLE LP TL       | 4052899530997 | 3.67 |
| OT CABLE CLAMP B-STYLE TL          | 4052899948051 | 3.67 |
| OT CABLE CLAMP D-STYLE             | 4052899077904 | 3.67 |
| OT CABLE CLAMP E-STYLE             | 4052899167896 | 3.67 |
| OT CABLE CLAMP F-STYLE             | 4052899325555 | 3.67 |
| OT DIM                             | 4050300943459 | 3.56 |
| OT DMX RGB DIM                     | 4008321160829 | 3.55 |
| OT DMX RGBW DIM                    | 4052899557949 | 3.55 |

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| OT FIT 100/220...240/700 D NFC IND L   | 4052899990128 | 3.31 |
| OT FIT 120/220...240/750 D LT2 L       | 4052899497900 | 3.33 |
| OT FIT 15/220...240/500 LT2 LP         | 4052899490673 | 3.42 |
| OT FIT 15/220...240/500 LT2 S          | 4052899956995 | 3.43 |
| OT FIT 150/220...240/1A0 D NFC IND L   | 4052899990142 | 3.31 |
| OT FIT 20/220...240/500 CS             | 4052899435612 | 3.44 |
| OT FIT 25/220...240/300 D LT2 L        | 4052899990289 | 3.33 |
| OT FIT 25/220...240/700 LT2 LP         | 4052899490697 | 3.42 |
| OT FIT 25/220...240/700 LT2 S          | 4052899957008 | 3.43 |
| OT FIT 30/220...240/125 D L            | 4052899222557 | 3.34 |
| OT FIT 30/220...240/700 CS             | 4052899435636 | 3.44 |
| OT FIT 35/220...240/350 D LT2 L        | 4052899478411 | 3.33 |
| OT FIT 35/220...240/350 D NFC L        | 4052899990166 | 3.32 |
| OT FIT 35/220...240/700 CS L G2        | 4052899522534 | 3.35 |
| OT FIT 40/220...240/1A0 CS             | 4052899435650 | 3.44 |
| OT FIT 40/220...240/1A0 LT2 LP         | 4052899490734 | 3.42 |
| OT FIT 40/220...240/1A0 LT2 S          | 4052899957015 | 3.43 |
| OT FIT 50/220...240/250 D L            | 4052899222571 | 3.34 |
| OT FIT 50/220...240/300 D L            | 4052899469884 | 3.34 |
| OT FIT 50/220...240/350 D L            | 4052899222595 | 3.34 |
| OT FIT 55/220...240/1A0 CS L G2        | 4052899522558 | 3.35 |
| OT FIT 75/220...240/1A4 CS L G2        | 4052899522572 | 3.35 |
| OT FIT 75/220...240/550 D LT2 L        | 4052899478435 | 3.33 |
| OT FIT 75/220...240/550 D NFC L        | 4052899990180 | 3.32 |
| OT Programmer                          | 4052899209640 | 3.73 |
| OTe 10/220...240/700 PC                | 4052899105300 | 3.41 |
| OTe 120/110...277/12 E                 | 4008321821263 | 3.51 |
| OTe 13/220...240/350 PC                | 4052899105324 | 3.41 |
| OTe 18/220...240/350 PC                | 4052899105348 | 3.41 |
| OTe 18/220...240/500 PC                | 4052899105362 | 3.41 |
| OTe 25/220...240/700 PC                | 4052899105386 | 3.41 |
| OTe 35/220...240/700 PC                | 4008321825250 | 3.41 |
| OTe 60/110...277/12 E                  | 4008321794338 | 3.51 |
| OTI 30/120...277/1A0 DX L              | 4052899345829 | 3.28 |
| OTI 50/120...277/1A4 DX L              | 4052899345836 | 3.28 |
| OTI DALI 10/220...240/700 NFC          | 4052899562639 | 3.37 |
| OTI DALI 100/220...240/700 D NFC IND L | 4052899559516 | 3.26 |
| OTI DALI 15/220...240/1A0 LT2          | 4052899324879 | 3.39 |
| OTI DALI 15/220...240/1A0 LT2 NFC      | 4052899548190 | 3.37 |
| OTI DALI 150/220...240/1A0 D NFC IND L | 4052899559530 | 3.26 |
| OTI DALI 160/220...240/24 1-2 CH       | 4052899986305 | 3.48 |
| OTI DALI 160/220...240/24 TW           | 4052899986312 | 3.48 |
| OTI DALI 25/220...240/700 LT2          | 4052899488144 | 3.39 |
| OTI DALI 25/220...240/700 LT2 NFC      | 4052899548213 | 3.37 |
| OTI DALI 35/220...240/1A0 LT2          | 4052899488168 | 3.39 |
| OTI DALI 35/220...240/1A0 LT2 NFC      | 4052899548237 | 3.37 |
| OTI DALI 35/220...240/400 D LT2 L      | 4052899494220 | 3.29 |
| OTI DALI 35/220...240/400 D LT2 UF L   | 4052899957022 | 3.22 |
| OTI DALI 35/220...240/400 D NFC TW L   | 4052899990302 | 3.24 |
| OTI DALI 35/220...240/700 LT2 L G2     | 4052899551763 | 3.29 |
| OTI DALI 50/220...240/1A4 LT2 FAN      | 4052899488182 | 3.39 |
| OTI DALI 50/220...240/1A4 LT2 L G2     | 4052899551787 | 3.29 |
| OTI DALI 50/220...240/1A4 LT2F NFC     | 4052899548251 | 3.37 |
| OTI DALI 50/220...240/24 1...4 CH      | 4052899452916 | 3.48 |
| OTI DALI 50/220...240/24 TW            | 4052899490772 | 3.48 |
| OTI DALI 60/220...240/550 D LT2 L      | 4052899494206 | 3.29 |

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| OTI DALI 80/220...240/1A6 LT2 L      | 4052899028074 | 3.29 |
| OTI DALI 80/220...240/24 1...4 CH    | 4052899452893 | 3.48 |
| OTI DALI 80/220...240/24 TW          | 4052899490758 | 3.48 |
| OTI DALI 80/220...240/2A1 LT2 L      | 4052899028050 | 3.29 |
| OTI DALI 90/220...240/1A0 LT2 L      | 4052899494268 | 3.29 |
| OTI DALI 90/220...240/700 D LT2 L    | 4052899494244 | 3.29 |
| OTI DALI DIM                         | 4008321061195 | 3.54 |

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| PL-AR-G4 2500-840              | 4052899529373 | 2.21 |
| PL-CN 111AC-1200-830 24 G1     | 4052899165533 | 2.50 |
| PL-CN 111AC-1200-830 40 G1     | 4052899165618 | 2.50 |
| PL-CN 111AC-1200-840 24 G1     | 4052899165557 | 2.50 |
| PL-CN 111AC-1200-840 40 G1     | 4052899165632 | 2.50 |
| PL-CN 111AC-1800-830 24 G1     | 4052899165571 | 2.50 |
| PL-CN 111AC-1800-830 40 G1     | 4052899165656 | 2.50 |
| PL-CN 111AC-1800-840 24 G1     | 4052899165595 | 2.50 |
| PL-CN 111AC-1800-840 40 G1     | 4052899165670 | 2.50 |
| PL-CN 50AC-650-830-24-G1       | 4052899276727 | 2.49 |
| PL-CN 50AC-650-830-40-G1       | 4052899276765 | 2.49 |
| PL-CN 50AC-650-840-24-G1       | 4052899276741 | 2.49 |
| PL-CN 50AC-650-840-40-G1       | 4052899276789 | 2.49 |
| PL-CN 50AC-800-830-24-G1       | 4052899276604 | 2.49 |
| PL-CN 50AC-800-830-40-G1       | 4052899276642 | 2.49 |
| PL-CN 50AC-800-830-60-G1       | 4052899276680 | 2.49 |
| PL-CN 50AC-800-840-24-G1       | 4052899276628 | 2.49 |
| PL-CN 50AC-800-840-40-G1       | 4052899276666 | 2.49 |
| PL-CN 50AC-800-840-60-G1       | 4052899276703 | 2.49 |
| PL-CN111-1500-927-24D-G2       | 4052899323735 | 2.47 |
| PL-CN111-1500-927-40D-G2       | 4052899323834 | 2.47 |
| PL-CN111-1500-930-24D-G2       | 4052899323797 | 2.47 |
| PL-CN111-1500-930-40D-G2       | 4052899323858 | 2.47 |
| PL-CN111-1500-940-24D-G2       | 4052899323810 | 2.47 |
| PL-CN111-1500-940-40D-G2       | 4052899323872 | 2.47 |
| PL-CN111-2400-827-24D-G2       | 4052899323896 | 2.47 |
| PL-CN111-2400-827-40D-G2       | 4052899323957 | 2.47 |
| PL-CN111-2400-830-24D-G2       | 4052899323919 | 2.47 |
| PL-CN111-2400-830-40D-G2       | 4052899323971 | 2.47 |
| PL-CN111-2400-840-24D-G2       | 4052899323933 | 2.47 |
| PL-CN111-2400-840-40D-G2       | 4052899323995 | 2.47 |
| PL-CN111-3600-827-24D-G2       | 4052899324015 | 2.47 |
| PL-CN111-3600-827-40D-G2       | 4052899324077 | 2.47 |
| PL-CN111-3600-830-24D-G2       | 4052899324039 | 2.47 |
| PL-CN111-3600-830-40D-G2       | 4052899324091 | 2.47 |
| PL-CN111-3600-840-24D-G2       | 4052899324053 | 2.47 |
| PL-CN111-3600-840-40D-G2       | 4052899324121 | 2.47 |
| PL-CN111DC-COB 1800-930-24D-G1 | 4052899541412 | 2.42 |
| PL-CN111DC-COB 1800-930-40D-G1 | 4052899541436 | 2.42 |
| PL-CN111DC-COB 1800-940-24D-G1 | 4052899541474 | 2.42 |
| PL-CN111DC-COB 1800-940-40D-G1 | 4052899541498 | 2.42 |
| PL-CN111DC-COB 2800-830-24D-G1 | 4052899541511 | 2.42 |
| PL-CN111DC-COB 2800-830-40D-G1 | 4052899541535 | 2.42 |
| PL-CN111DC-COB 2800-840-24D-G1 | 4052899541573 | 2.42 |

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| PL-CN111DC-COB 4300-830-40D-G1 | 4052899541658 | 2.42 |
| PL-CN111DC-COB 4300-830-60D-G1 | 4052899541672 | 2.42 |
| PL-CN111DC-COB 4300-840-24D-G1 | 4052899541696 | 2.42 |
| PL-CN111DC-COB 4300-840-40D-G1 | 4052899541719 | 2.42 |
| PL-CN111DC-COB 4300-840-60D-G1 | 4052899541733 | 2.42 |
| PL-CN50-1200-827-24D-G2        | 4052899324299 | 2.45 |
| PL-CN50-1200-827-40D-G2        | 4052899324381 | 2.45 |
| PL-CN50-1200-830-24D-G2        | 4052899324343 | 2.45 |
| PL-CN50-1200-830-40D-G2        | 4052899324404 | 2.45 |
| PL-CN50-1200-840-24D-G2        | 4052899324367 | 2.45 |
| PL-CN50-1200-840-40D-G2        | 4052899324428 | 2.45 |
| PL-CN50-1400-827-24D-G2        | 4052899324442 | 2.45 |
| PL-CN50-1400-827-40D-G2        | 4052899324503 | 2.45 |
| PL-CN50-1400-830-24D-G2        | 4052899324466 | 2.45 |
| PL-CN50-1400-830-40D-G2        | 4052899324527 | 2.45 |
| PL-CN50-1400-840-24D-G2        | 4052899324480 | 2.45 |
| PL-CN50-1400-840-40D-G2        | 4052899324541 | 2.45 |
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| PL-CN50-900-930-24D-G2         | 4052899324169 | 2.45 |
| PL-CN50-900-930-40D-G2         | 4052899324220 | 2.45 |
| PL-CN50-900-940-24D-G2         | 4052899324183 | 2.45 |
| PL-CN50-900-940-40D-G2         | 4052899324275 | 2.45 |
| PL-CN50DC-COB 1400-830-24D-G1  | 4052899541870 | 2.41 |
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| PL-CN50DC-COB 1400-840-24D-G1  | 4052899541917 | 2.41 |
| PL-CN50DC-COB 1400-840-40D-G1  | 4052899541931 | 2.41 |
| PL-CN50DC-COB 900-930-24D-G1   | 4052899541191 | 2.41 |
| PL-CN50DC-COB 900-930-40D-G1   | 4052899541757 | 2.41 |
| PL-CN50DC-COB 900-940-24D-G1   | 4052899541771 | 2.41 |
| PL-CN50DC-COB 900-940-40D-G1   | 4052899541818 | 2.41 |
| PL-CORE AC-2000-830            | 4052899952775 | 2.38 |
| PL-CORE AC-2000-840            | 4052899952782 | 2.38 |
| PL-CORE AC-800-827             | 4052899952751 | 2.38 |
| PL-CORE AC-800-830             | 4052899952768 | 2.38 |
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| PL-CORE-G7 1000-840 L10 H1     | 4052899533981 | 2.33 |
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| PL-CORE-G7 1000-930 L10 H1     | 4052899534049 | 2.33 |
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| PL-CORE-G7 2000-830 L10 H1     | 4052899534148 | 2.33 |
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| PL-CORE-G7 2000-835 L10 H1     | 4052899534186 | 2.33 |
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| PL-CORE-G7 2000-840 L10 H1     | 4052899534209 | 2.33 |
| PL-CORE-G7 2000-840 L15 H1     | 4052899534360 | 2.31 |
| PL-CORE-G7 2000-927 L10 H1     | 4052899534223 | 2.33 |
| PL-CORE-G7 2000-927 L15 H1     | 4052899534247 | 2.33 |
| PL-CORE-G7 2000-927 L15 H1     | 4052899534384 | 2.31 |



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| PL-CORE-G7 2000-935 L15 H1 | 4052899534421  | 2.31 |
| PL-CORE-G7 2000-940 L10 H1 | 4052899534285  | 2.33 |
| PL-CORE-G7 2000-940 L15 H1 | 4052899534445  | 2.31 |
| PL-CORE-G7 3000-827 L15 H1 | 4052899534469  | 2.31 |
| PL-CORE-G7 3000-830 L15 H1 | 4052899534483  | 2.31 |
| PL-CORE-G7 3000-835 L15 H1 | 4052899534506  | 2.31 |
| PL-CORE-G7 3000-840 L15 H1 | 4052899534520  | 2.31 |
| PL-CORE-G7 3000-927 L15 H1 | 4052899534544  | 2.31 |
| PL-CORE-G7 3000-930 L15 H1 | 4052899534568  | 2.31 |
| PL-CORE-G7 3000-935 L15 H1 | 4052899534582  | 2.31 |
| PL-CORE-G7 3000-940 L15 H1 | 4052899534605  | 2.31 |
| PL-CORE-G7 5000-827 L15 H1 | 4052899534629  | 2.31 |
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| PL-CORE-G7 5000-835 L15 H1 | 4052899534667  | 2.31 |
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| PL-CORE-G7 5000-940 L15 H1 | 4052899534766  | 2.31 |
| PL-FLAT-AC DA-G2 1500-830  | 4052899696989  | 2.60 |
| PL-FLAT-AC DA-G2 1500-840  | 4052899697074  | 2.60 |
| PL-FLAT-AC DA-G2 2500-830  | 4052899697111  | 2.60 |
| PL-FLAT-AC DA-G2 2500-840  | 4052899697228  | 2.60 |
| PL-FLAT-AC MA-G2 1500-830  | 4052899697773  | 2.58 |
| PL-FLAT-AC MA-G2 1500-840  | 4052899697870  | 2.58 |
| PL-FLAT-AC MA-G2 2500-830  | 4052899697977  | 2.58 |
| PL-FLAT-AC MA-G2 2500-840  | 4052899698083  | 2.58 |
| PL-FLAT-AC SL-G2 1500-830  | 4052899698110  | 2.59 |
| PL-FLAT-AC SL-G2 1500-840  | 4052899698227  | 2.59 |
| PL-FLAT-AC SL-G2 2500-830  | 4052899698344  | 2.59 |
| PL-FLAT-AC SL-G2 2500-840  | 4052899698441  | 2.59 |
| PL-FLAT-AC EM 3300-830     | 4052899512009  | 2.57 |
| PL-FLAT-AC EM 3300-840     | 4052899512023  | 2.57 |
| PL-FLAT-AC EM-G2 1500-830  | 4052899696950  | 2.57 |
| PL-FLAT-AC EM-G2 1500-840  | 4052899696967  | 2.57 |
| PL-FLAT-AC EM-G2 2500-830  | 4052899696974  | 2.57 |
| PL-FLAT-AC EM-G2 2500-840  | 4052899696981  | 2.57 |
| PL-FLAT-AC-G2 4000-830     | 4052899389014  | 2.61 |
| PL-FLAT-AC-G2 4000-840     | 4052899389038  | 2.61 |
| PL-FLAT-AC-PC-G2 1500-830  | 4052899696929  | 2.56 |
| PL-FLAT-AC-PC-G2 1500-840  | 4052899696912  | 2.56 |
| PL-FLAT-AC-PC-G2 2500-830  | 4052899696936  | 2.56 |
| PL-FLAT-AC-PC-G2 2500-840  | 4052899696943  | 2.56 |
| PL-FLAT-AC-PC-G2 3300-830  | 4052899511965  | 2.56 |
| PL-FLAT-AC-PC-G2 3300-840  | 4052899511989  | 2.56 |
| PL-FLTP 170 G2             | 40528996969872 | 2.62 |
| PL-FLTP 170 MA G2          | 40528996969858 | 2.62 |
| PL-FLTP 240 G2             | 40528996969889 | 2.62 |
| PL-FLTP 240 MA G2          | 40528996969865 | 2.62 |
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| PL-LIN DIFFUSER 1450X28    | 4052899466777  | 2.27 |
| PL-LIN DIFFUSER 560X28     | 4052899466692  | 2.27 |

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| PL-LIN G4-P 1100-840 280X20   | 40528998989412 | 2.13 |
| PL-LIN G4-P 2000-830 280X20   | 40528998989436 | 2.13 |
| PL-LIN G4-P 2000-840 280X20   | 40528998989450 | 2.13 |
| PL-LIN G4-P 2200-830 560X20   | 40528998989474 | 2.13 |
| PL-LIN G4-P 2200-840 560X20   | 40528998989498 | 2.13 |
| PL-LIN G4-P 4000-830 560X20   | 40528998989511 | 2.13 |
| PL-LIN G4-P 4000-840 560X20   | 40528998989535 | 2.13 |
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| PL-LIN OPTIC 40 CLR 560X10    | 40528998986565 | 2.28 |
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| PL-LIN OPTIC 60 DIFF 1120X10  | 40528998986534 | 2.28 |
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| PL-LIN OPTIC CLIP WT          | 40528998986589 | 2.28 |
| PL-LIN-Z1 2200-TW             | 40528998989351 | 2.07 |
| PL-LIN-Z4 1100-840 280X20     | 40528998984844 | 2.09 |
| PL-LIN-Z4 1100-840 280X33     | 40528998986060 | 2.09 |
| PL-LIN-Z4 1100-940 280X20     | 40528998984905 | 2.09 |
| PL-LIN-Z4 1300-840 560X33     | 40528998986152 | 2.09 |
| PL-LIN-Z4 2000-840 280X20     | 40528998985049 | 2.09 |
| PL-LIN-Z4 2000-940 280X20     | 40528998985094 | 2.09 |
| PL-LIN-Z4 2200-840 560X20     | 40528998985223 | 2.09 |
| PL-LIN-Z4 2200-840 560X33     | 40528998986220 | 2.09 |
| PL-LIN-Z4 2200-940 560X20     | 40528998985285 | 2.09 |
| PL-LIN-Z4 4000-840 560X20     | 40528998985421 | 2.09 |
| PL-LIN-Z4 4000-940 560X20     | 40528998985476 | 2.09 |
| PL-LIN-Z4 4400-840 1120X20    | 40528998985605 | 2.09 |
| PL-LIN-Z4 550-840 140X20      | 40528998984745 | 2.09 |
| PL-LIN-Z4 5500-840 1400X20    | 40528998985803 | 2.09 |
| PL-LIN-Z4 650-840 280X33      | 40528998985995 | 2.09 |
| PLG2-BAR-1100-830-280x55-DC   | 4052899303935  | 2.25 |
| PLG2-BAR-1100-840-280x55-DC   | 4052899303959  | 2.25 |
| PLG2-BAR-1100-865-280x55-DC   | 4052899303973  | 2.25 |
| PLG2-BAR-2200-840-560x55-DC   | 4052899304017  | 2.25 |
| PLG2-BAR-2200-865-560x55-DC   | 4052899304031  | 2.25 |
| POWER SUPPLY PS 30            | 4052899553880  | 4.75 |
| PREVALED LV DIFFUSER 1150     | 4052899130357  | 2.26 |
| PREVALED LV DIFFUSER 1450     | 4052899130371  | 2.26 |
| PREVALED LV DIFFUSER 560      | 4052899130319  | 2.26 |
| PREVALED LV DIFFUSER 600      | 4052899130333  | 2.26 |
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| PT-FIT 70/220...240 I         | 4008321377685  | 5.52 |
| PT-FIT 70/220...240 S         | 4008321386649  | 5.51 |
| PTI 150/220...240 I           | 4008321915535  | 5.50 |
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| PTI 35/220...240 I            | 4008321099488  | 5.50 |
| PTI 35/220...240 S            | 4008321073112  | 5.49 |
| PTI 35/220...240 S MINI       | 4008321955906  | 5.49 |
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| PTo 250/220...240 3DIM | 4008321863669 | 5.48 |
| PTo 35/220...240       | 4008321956323 | 5.48 |
| PTo 50/220...240 3DIM  | 4008321956347 | 5.48 |
| PTo 70/220...240 3DIM  | 4008321959355 | 5.48 |

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| QT 1X58 DIM           | 4008321645609  | 5.22 |
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| QT 2X36 DIM           | 4008321645838  | 5.22 |
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| QT-ECO 1X18...24 L    | 4050300660417  | 5.44 |
| QT-ECO 1X18...24 S    | 4050300638560  | 5.44 |
| QT-ECO 1X26 S         | 4008321065971  | 5.45 |
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| QT-FIT 5/8 1X54...58  | 4008321873828  | 5.34 |
| QT-FIT 5/8 2X18...39  | 4008321873903  | 5.34 |
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| QT-FIT5 1X14...35     | 4008321971234  | 5.32 |
| QT-FIT5 1X49          | 4008321832139  | 5.32 |
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| Touch DIM® LS/PD LI       | 4.11  |
| Touch DIM® RC             | 4.08  |
| Touch DIM® RMC            | 4.07  |
| Touch DIM® WCU            | 4.06  |
| <b>U</b>                  |       |
| User Remote               | 4.18  |
| <b>V</b>                  |       |
| VALUE Flex® 1000          | 2.106 |
| VALUE Flex® 1200S         | 2.109 |
| VALUE Flex® 1500          | 2.103 |
| VALUE Flex® 2000          | 2.107 |
| VALUE Flex® 2400S         | 2.110 |
| VALUE Flex® 300           | 2.105 |
| VALUE Flex® 600           | 2.104 |
| VALUE Flex® 800S          | 2.108 |
| VALUE Flex® Protect 1000  | 2.114 |
| VALUE Flex® Protect 1200S | 2.117 |
| VALUE Flex® Protect 1500  | 2.111 |
| VALUE Flex® Protect 2000  | 2.115 |
| VALUE Flex® Protect 2400S | 2.118 |
| VALUE Flex® Protect 300   | 2.113 |
| VALUE Flex® Protect 600   | 2.112 |
| VALUE Flex® Protect 800S  | 2.116 |
| VISION                    | 4.36  |
| <b>Y</b>                  |       |
| Y-CONNECTOR               | 4.95  |
| Y-CONNECTOR SCREW         | 4.96  |
| <b>Z</b>                  |       |
| ZigBee DALI CON LI        | 4.93  |







# Simple and correct disposal of lighting products

EU directive 2012/19/EU on waste electrical and electronic equipment (WEEE) relates, among other things, to luminaires, discharge lamps and LED lamps.

Starters, control gears and light-emitting diodes are classed as luminaire components and as such are part of the luminaire disposal process.

All OSRAM products that need to be disposed of under the WEEE directive are labeled with the symbol shown here.



All manufacturers, importers and initial distributors must register with their relevant national authority. Products from non-registered manufacturers may no longer be marketed.

There are individual regulations governing the disposal of lighting products in the member states of the EU and also in Norway and Switzerland. For more information, please contact your local OSRAM office.

The primary objectives of the WEEE directive are to reduce the load on the environment, safeguard valuable resources and protect the environment and public health.

All consumers (commercial and domestic) are obliged to return old affected lighting products for separate disposal. Collection points have been set up for this.

The latest information from OSRAM can be found on our Sustainability pages: [www.osram-group.com/en/sustainability/environmental/recycling](http://www.osram-group.com/en/sustainability/environmental/recycling) or at any relevant national authorities.



# General notes

## Standard packs

### General

All OSRAM articles are GTIN (EAN) coded in their various packaging formats. The GTIN (EAN) numbers listed in this catalog normally relate to the smallest packaging unit unless otherwise indicated.

Technical data is in accordance with EN European Standard and IEC (International Electrotechnical Commission).

Unless otherwise indicated, all products are designed for a mains voltage of 220–240 V.

For CE labeling, see notes on the following page.

Sales and shipments are based on the OSRAM Conditions of Supply and Payment valid on the contract date.

Technical data and dimensions are subject to the customary small tolerances.

Subject to technical modification and availability of supplies. The information in this catalog supersedes information in previous catalogs.

® = Registered trademark

### Standard packs

There is a surcharge on order quantities different from the standard pack quantities listed in this catalog because standard packs have to be broken open.

There are considerable advantages in ordering original cartons/standard packs:

- Prompt delivery
- No surcharges
- Simple cost-saving handling on receipt
- No time-consuming checks when the goods arrive
- Exact contents description on each stacked carton
- No danger of mistaking one type of lamp for another
- Reduced risk of losses in transit
- Reduced risk of breakage

### Types not listed

Available on request.

Surcharge for special designs and functions.

## Registered trademarks

|             |            |                  |             |
|-------------|------------|------------------|-------------|
| BackLED     | DRAGONpuck | HALOTRONIC MOUSE | OPTOTRONIC  |
| BoxLED      | EINSTONE   | HTM              | OUT KIT     |
| COINlight   | ENCELIUM   | HubSense         | PrevaLED    |
| DRAGONchain | ET-PARROT  | LINEARlight FLEX | QUICKTRONIC |
| DRAGONeye   | HALOTRONIC | LUXeye           | Touch DIM   |



# CE labeling for lighting products

Products that fall under the scope of the European directives on low voltage (LVD), electromagnetic compatibility (EMC), radio equipment (RED), restriction of certain hazardous substances (RoHS) and the eco-design of energy-related products (ErP and its applicable implementation measures) must carry the CE label to be sold within the EU. The CE label indicates compliance with the essential requirements of these regulations and ordinances. All relevant OSRAM products for sale on the EU market meet the requirements of the applicable European directives and therefore carry the CE label.

## Notes on CE labeling:

### 1. CE labeling as a requirement for marketing products in Europe

Some EU Regulations (“CE Regulations”) require CE marking of products. In this case, the CE label is a prerequisite for sales within the EU and must therefore be applied before a product can be marketed. By applying the CE label to their products, manufacturers and importers confirm that their products comply with the “essential requirements” of all applicable CE Regulations and that they meet the stated objectives of these directives (electromagnetic compatibility, for example). In many cases, compliance with these “essential requirements” is demonstrated by complying with the relevant harmonized European standards (EN). However, from a legal perspective, a manufacturer may also choose a different pathway to demonstrate compliance and rather use his own technical expertise than applying harmonized standards, for example in case of new technologies when harmonized standards simply do not (yet) exist.

### 2. The CE label is an administrative mark

The CE label is an administrative mark addressed to the EU customs and market authorities. The CE label indicates to them that at the time of its marketing the labeled product complies with the European directives that (a) apply to the product and (b) require a CE label.



### 3. CE labeling for inspection

Consumers do not have the right to inspect the CE declarations of the manufacturers. There is one exception, however: For radio products, the CE declaration must be made available with the product, either in printed form or via a download link.

The right to request and inspect CE declarations is reserved exclusively for those market authorities responsible for checking that electrical and electronic products comply with statutory requirements. In Germany, for example, these are the Bundesnetzagentur (Federal Network Agency, responsible in connection with the EMC directive and the RED directive), the Gewerbeaufsichtsämter (Trade Supervision Offices, responsible in connection with the low-voltage directive), the relevant authorities and the Bundesanstalt für Materialforschung und -prüfung (Federal Agency for Material Research and Testing) as the commissioned agency (in connection with the ErP directive).

### 4. The CE label is not a seal of quality or an approval mark

CE labeling relates solely to compliance with the statutory “essential requirements” contained in certain directives and ordinances. It is therefore not an indicator of the quality of the product. The product features required in the ordinances for implementing the ErP directive are verified by the manufacturers by means of type testing and confirmed with the CE label. As an administrative label required by law, the CE label should not be confused with the approval marks (such as ENEC and VDE marks) issued by independent inspectorates. These inspectorates do not check if a product legitimately carries the CE label.


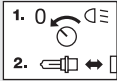

























# Symbols on our packaging





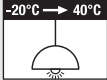
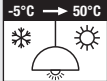






OSRAM has always focused not only on high product quality but also on the health of the consumers of its products. The European regulations on product safety create the same conditions in all EU member states and standardize the safety

requirements relating to products. The regulations promise greater transparency for the consumer. To meet our obligations arising from these regulations and to inform our customers as well as to visualize product features in a way that can be quickly grasped, we provide information about our products on the products themselves, on the packaging and on the leaflets enclosed with the products. Because there are so many different languages in the EU, we use pictograms.

## OSRAM uses the following symbols:























































|   |  |   |  |
|---|--|---|--|
|    | Open packaging, read instructions  |    | Switch off headlights before replacing lamp              |
|    | Read the enclosed leaflet before use   |    | Can be operated in unshielded luminaires                 |
|   | Keep away from children  |   | Operate only in shielded luminaires                      |
|  | Do not throw away with household waste   |  | Limited dimmability                                      |
|  | Use indoors only   |  | Lamp cannot be dimmed                                    |
|  | Disconnect the power supply before relamping                                     |  | Caution: hot   |
|  | Disconnect electronic control gear from the power supply before maintenance work |  | Wear suitable protective gloves when fitting or removing |

|   |   |
|---|---|
|    | Wear suitable goggles when fitting or removing  |
|    | Protect against splashes  |
|    | Restriction on burning position: p = horizontal, h = hanging, s = standing, 15 = ±15° |
|    | Must be installed and maintained only by qualified electricians                       |
|    | IR radiation  |
|    | High levels of UV radiation   |
|    | UVA-A radiation   |
|   | Germicidal lamp   |
|  | Radiation hazard: Do not look into the light source                                   |
|  | Operate only with control gear  |
|  | Ignition procedure for lamps with built-in ignition                                   |
|  | Ignition procedure for lamps with external igniter                                    |


















|   |  |
|---|--|
|    | Dangerous voltage  |
|    | Special lamps, not suitable for general lighting in households |
|    | Caution! Hot surface   |
|    | See further information on the inside                          |
|    | Suitable indoor ambient temperature                            |
|    | Suitable outdoor ambient temperature                           |
|    | Not suitable for accent lighting                               |
|   | Do not use tools   |
|  | Do not open product  |
|  | Intended application: entertainment                            |
|  | Intended application: medical devices                          |
|  | Intended application: industry                                 |



# Symbols in the tables

|   |                                |   |                                 |   |   |
|---|--------------------------------|---|---------------------------------|---|---|
|    | Power in W                     |    | Operating frequency in Hz       |    | Length $l_i$ in mm                                  |
|    | System wattage in W            |    | Operating frequency in kHz      |    | Width $b$ in mm                                     |
|    | Wattage of chain in W          |    | Color temperature in K          |    | Hole spacing $b_1$ in mm                            |
|    | Module wattage in W            |    | Light color                     |    | Height $h$ in mm                                    |
|    | Nominal wattage per meter in W |    | Color                           |    | Maximum installation height in m                    |
|    | Wattage per meter White        |    | Color rendering index           |    | Beam angle in °                                     |
|    | Wattage per meter RGB          |    | Luminous flux in lm             |    | Average period of use/life                          |
|    | Dimmable                       |    | Luminous flux of chain          |    | Output ripple at 100Hz                              |
|    | Dimming range                  |    | Luminous flux of module         |    | Programming interface                               |
|    | Type of current                |    | Luminous flux per meter         |    | Galvanic isolation                                  |
|    | Voltage in V                   |    | Luminous flux per meter White   |    | Protection class                                    |
|    | Input voltage in V             |    | Luminous flux per meter RGB     |    | Type of protection                                  |
|   | Output voltage in V            |   | Luminous efficacy               |   | Control   |
|  | DC voltage in V                |  | Luminous intensity in cd        |  | Number of control outputs                           |
|  | Ignition voltage in kV         |  | Power factor/wavelength         |  | Ambient temperature range in °C                     |
|  | Current in A                   |  | Diameter $d$ in mm              |  | Max. operating temperature at the $T_c$ point in °C |
|  | Rated current in mA            |  | Diameter light emitting surface |  | Energy efficiency class                             |
|  | Current Set                    |  | Length $l$ in mm                |  | Initial standard deviation of color matching        |



|   |                                     |
|---|-------------------------------------|
|    | No. of LEDs per module              |
|    | Number of LEDs per meter            |
|    | Number of LED modules per chain     |
|    | For lamp/LED module                 |
|    | Maximum cable length – system in m  |
|    | Detection area                      |
|    | Working range of light sensor in Lx |
|    | Maximum load contact in A           |
|    | Type of installation                |
|    | Transmitter range in m              |
|    | Battery                             |
|   | Max. TX power                       |
|  | Advertising interval                |
|  | Antenna type                        |
|  | Multi services support              |
|  | Standard pack in pcs.               |
|  | Fig. no.                            |

**Glossary**

|      |   |
|------|---|
| AM   | Amplitude Modulation                          |
| CCG  | Conventional Control Gear                     |
| CFL  | Compact Fluorescent Lamp                      |
| CLO  | Constant Lumen Output                         |
| CS   | Current Setting                               |
| DA   | DALI  |
| DALI | Digital Addressable Lighting Interface        |
| DT6  | DALI Device Type 6                            |
| ECG  | Electronic Control Gear                       |
| EEL  | Energy Efficiency Index                       |
| FAN  | 12V auxiliary output for active cooling (fan) |
| HPS  | High Pressure Sodium lamp                     |
| L    | Linear  |
| LH   | Lamp High                                     |
| LL   | Lamp Low                                      |
| LT2  | LEDset2                                       |
| PWM  | Pulse Width Modulation                        |
| RI   | Radio Interference                            |
| S    | Luminaire integration                         |
| SD   | StepDIM                                       |

