# LEDSFOCUS PRO

Full Color Type　ON/OFF Type　Dimmable Type

Heat resistance | VIbration resistance 1G | Noise resistance | UV resistance | Heavy salt resistance | High waterproof IP66

## FULL COLOR & Dimmable Type NEW

Full color type (LLF0111A) & dimmable type (LLF0111A, LLF0112A) have been newly added to the line-up.

Full Color

Dimmable

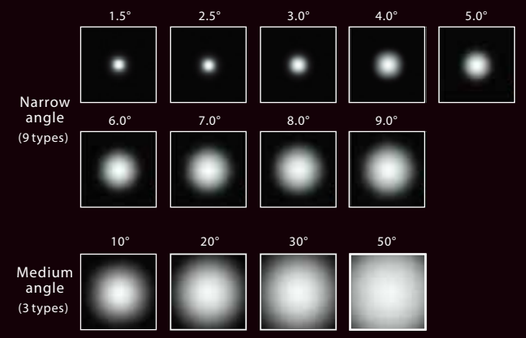
## Wide range of variations to meet every need

Light distribution from ultra-narrow to medium angles effectively harnesses the light from the LEDs, providing a lighting fixture that can be used for a wide range of lighting uses and light shows. The LEDSFOCUS PRO delivers light to places it has never been able to reach before. Our unique optical system delivers beautiful projections with control of light distribution angles in units of 1° and provides a wide variety of colors to create beautiful light displays that are perfect for a wide range of scenarios.

| | |
|---|---|
| Ultra-narrow light distribution | 1/2 beam angle, ultra-narrow light distribution with a minimum of 1.5° enables bright illumination at distant objects. |
| Light distribution control | Light distribution can be fine-tuned by units of 1°, from 1.5 to 10°, accurately casting light on objects. In addition,a high output medium angle lightdistribution of 10 to 50° is available for various applications. The full color type has a narrow-angle light distribution of 5° and a medium-angle light distribution of 10 to 30°. |
| Beautiful light projection | Our unique LED / lens design technology can achieve beautiful and uniform light projection. |
| Heavy duty | The waterproof and dustproof structure of IP66 as well as the excellent heavy salt resistance specifications, provide maximum performance in harsh environments. |
| Customizable | Light distribution, light color, size, body color, and optional parts can be freely customized, making this product suitable for any scenario. |
| Expressive power (Full Color Type) | Light of various colors, including pastel colors, can be expressed by using the RGBW light source. |

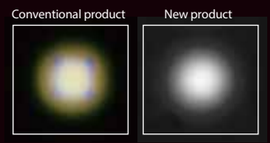
### A variety of light distribution angles to meet every application (LLF0111A)

### Huge variation achieved with 1° unit adjustments (LLF0111A)




### An extensive range of colors is also available (LLF0111A)

### Visualization of light (LLF0111A)




Increased light distribution uniformity

# LEDSFOCUS PRO LLF0112A

- Heat resistance
- VIbration resistance 1G
- Noise resistance
- UV resistance
- Heavy salt resistance
- High waterproof IP66

## Specifiction

Body: Aluminum die casting
Front cover: Polycarbonate
Secondary lens: Acrylic
Ambient temperature:
-20–50 °C (Narrow angle ON/OFF type)
-25–50 °C (Narrow angle Dimmable type / Medium angle)
Waterproof and dustproof: IP66
Light source life: 50,000 hours (lumen maintenance factor 70%)
Power supply: Built in
Weight: Narrow-angle type (1.5–9°) 3.5 kg [ Dimmable type 3.7 kg ]
Medium-angle type (10–50°) 4.2 kg [ Dimmable type 4.3 kg ]

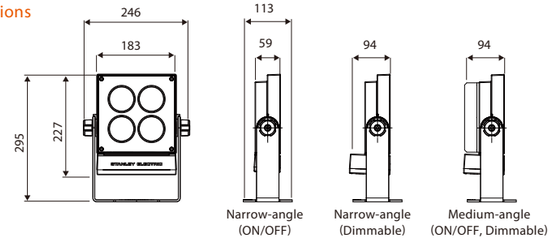
| ON/OFF type | Luminous flux | Rated power consumption |
|---|---|---|
| Ultra narrow-angle (1.5°) | 628 lm | 16.0W |
| Narrow-angle (2.5–9°) | 87.6–808 lm | 15.6–16.9W |
| Medium-angle (10–50°) | 1,550–2,240 lm | 28.3W |

| Dimmable type | Luminous flux | Rated power consumption |
|---|---|---|
| Narrow-angle (2.5–9°) | 87.6–808 lm | 16.9–17.8W |
| Medium-angle (10–50°) | 1,550–2,240 lm | 28.7–29.8W |

Rated power consumption is at AC100V

## Dimensions

Unit: mm



## Color

Charcoal grey (Standard color)

## Option

| llumination range | | 6500K | 5700K | 5000K | 4000K | 3000K | 2700K | 2200K | Red | Green | Blue | Gold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Beam Angle 1.5°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 0.28 | □ | □ | 7,900 | □ | □ | □ | □ | □ | □ | □ | □ |
| 30 | 0.84 | □ | □ | 880 | □ | □ | □ | □ | □ | □ | □ | □ |
| 50 | 1.4 | □ | □ | 320 | □ | □ | □ | □ | □ | □ | □ | □ |
| 100 | 2.8 | □ | □ | 79 | □ | □ | □ | □ | □ | □ | □ | □ |
| 250 | 7.0 | □ | □ | 13 | □ | □ | □ | □ | □ | □ | □ | □ |
| **Beam Angle 2.5°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 0.38 | 5,200 | 5,200 | 5,200 | 5,200 | 4,700 | 4,000 | 3,500 | 1,100 | 3,600 | 320 | 4,200 |
| 30 | 1.2 | 580 | 580 | 580 | 580 | 520 | 450 | 390 | 120 | 390 | 35 | 470 |
| 50 | 1.9 | 210 | 210 | 210 | 210 | 190 | 160 | 140 | 42 | 140 | 13 | 170 |
| 100 | 3.8 | 52 | 52 | 52 | 52 | 47 | 40 | 35 | 11 | 36 | 3.2 | 42 |
| 250 | 9.6 | 8.3 | 8.3 | 8.3 | 8.3 | 7.5 | 6.4 | 5.6 | 1.7 | 5.7 | 0.51 | 6.7 |
| **Beam Angle 3.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 0.45 | 3,600 | 3,600 | 3,600 | 3,600 | 3,200 | 2,800 | 2,500 | 730 | 2,400 | 220 | 3,000 |
| 30 | 1.4 | 400 | 400 | 400 | 400 | 360 | 310 | 270 | 81 | 270 | 24 | 330 |
| 50 | 2.3 | 140 | 140 | 140 | 140 | 130 | 110 | 98 | 29 | 97 | 8.7 | 120 |
| 100 | 4.5 | 36 | 36 | 36 | 36 | 32 | 28 | 25 | 7.3 | 24 | 2.2 | 30 |
| 250 | 11 | 5.7 | 5.7 | 5.7 | 5.7 | 5.1 | 4.5 | 3.9 | 1.2 | 3.9 | 0.35 | 4.8 |
| **Beam Angle 4.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 0.66 | 1,900 | 1,900 | 1,900 | 1,900 | 1,700 | 1,500 | 1,300 | 390 | 1,300 | 120 | 1,600 |
| 30 | 2.0 | 210 | 210 | 210 | 210 | 190 | 160 | 140 | 43 | 140 | 13 | 170 |
| 50 | 3.3 | 75 | 75 | 75 | 75 | 68 | 58 | 51 | 15 | 51 | 4.6 | 62 |
| 100 | 6.6 | 19 | 19 | 19 | 19 | 17 | 15 | 13 | 3.9 | 13 | 1.2 | 16 |
| 250 | 17 | 3.0 | 3.0 | 3.0 | 3.0 | 2.7 | 2.3 | 2.0 | 0.62 | 2.0 | 0.18 | 2.5 |

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

Values in this catalog are for reference only and are not guaranteed.



| llumination range | | 6500K | 5700K | 5000K | 4000K | 3000K | 2700K | 2200K | Red | Green | Blue | Gold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Beam Angle 5.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 0.91 | 1,100 | 1,100 | 1,100 | 1,100 | 970 | 830 | 720 | 220 | 730 | 66 | 900 |
| 30 | 2.7 | 120 | 120 | 120 | 120 | 110 | 92 | 80 | 24 | 81 | 7.3 | 99 |
| 50 | 4.5 | 43 | 43 | 43 | 43 | 39 | 33 | 29 | 8.8 | 29 | 2.6 | 36 |
| 100 | 9.1 | 11 | 11 | 11 | 11 | 9.7 | 8.3 | 7.2 | 2.2 | 7.3 | 0.66 | 9.0 |
| 250 | 23 | 1.7 | 1.7 | 1.7 | 1.7 | 1.5 | 1.3 | 1.2 | 0.35 | 1.2 | 0.10 | 1.4 |
| **Beam Angle 6.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 1.1 | 780 | 780 | 780 | 780 | 710 | 610 | 530 | 160 | 540 | 48 | 660 |
| 30 | 3.2 | 87 | 87 | 87 | 87 | 78 | 67 | 59 | 18 | 59 | 5.3 | 73 |
| 50 | 5.4 | 31 | 31 | 31 | 31 | 28 | 24 | 21 | 6.4 | 21 | 1.9 | 26 |
| 100 | 11 | 7.8 | 7.8 | 7.8 | 7.8 | 7.1 | 6.1 | 5.3 | 1.6 | 5.4 | 0.48 | 6.6 |
| 250 | 27 | 1.3 | 1.3 | 1.3 | 1.3 | 1.1 | 0.97 | 0.85 | 0.26 | 0.86 | 0.076 | 1.0 |
| **Beam Angle 7.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 1.3 | 600 | 600 | 600 | 600 | 540 | 460 | 400 | 120 | 410 | 36 | 500 |
| 30 | 3.8 | 66 | 66 | 66 | 66 | 60 | 51 | 45 | 14 | 45 | 4.0 | 56 |
| 50 | 6.3 | 24 | 24 | 24 | 24 | 21 | 18 | 16 | 4.9 | 16 | 1.5 | 20 |
| 100 | 13 | 6.0 | 6.0 | 6.0 | 6.0 | 5.4 | 4.6 | 4.0 | 1.2 | 4.1 | 0.36 | 5.0 |
| 250 | 31 | 0.96 | 0.96 | 0.96 | 0.96 | 0.86 | 0.74 | 0.64 | 0.20 | 0.65 | 0.058 | 0.80 |
| **Beam Angle 8.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 1.4 | 450 | 450 | 450 | 450 | 410 | 350 | 300 | 92 | 310 | 28 | 380 |
| 30 | 4.3 | 50 | 50 | 50 | 50 | 45 | 38 | 34 | 10 | 34 | 3.1 | 42 |
| 50 | 7.2 | 18 | 18 | 18 | 18 | 16 | 14 | 12 | 3.7 | 12 | 1.1 | 15 |
| 100 | 14 | 4.5 | 4.5 | 4.5 | 4.5 | 4.1 | 3.5 | 3.0 | 0.92 | 3.1 | 0.28 | 3.8 |
| 250 | 36 | 0.72 | 0.72 | 0.72 | 0.72 | 0.65 | 0.55 | 0.48 | 0.15 | 0.49 | 0.044 | 0.60 |
| **Beam Angle 9.0°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 1.5 | 370 | 370 | 370 | 370 | 330 | 290 | 250 | 76 | 250 | 23 | 310 |
| 30 | 4.5 | 41 | 41 | 41 | 41 | 37 | 32 | 28 | 8.4 | 28 | 2.5 | 35 |
| 50 | 7.5 | 15 | 15 | 15 | 15 | 13 | 11 | 10 | 3.0 | 10 | 0.90 | 13 |
| 100 | 15 | 3.7 | 3.7 | 3.7 | 3.7 | 3.3 | 2.9 | 2.5 | 0.76 | 2.5 | 0.23 | 3.1 |
| 250 | 38 | 0.59 | 0.59 | 0.59 | 0.59 | 0.53 | 0.46 | 0.40 | 0.12 | 0.40 | 0.036 | 0.50 |
| **Beam Angle 10°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 1.6 | 920 | 920 | 920 | 920 | 770 | 770 | 610 | □ | □ | □ | 840 |
| 30 | 4.7 | 100 | 100 | 100 | 100 | 85 | 85 | 68 | □ | □ | □ | 94 |
| 50 | 7.9 | 37 | 37 | 37 | 37 | 31 | 31 | 24 | □ | □ | □ | 34 |
| 100 | 16 | 9.2 | 9.2 | 9.2 | 9.2 | 7.7 | 7.7 | 6.1 | □ | □ | □ | 8.4 |
| 250 | 39 | 1.5 | 1.5 | 1.5 | 1.5 | 1.2 | 1.2 | 0.98 | □ | □ | □ | 1.3 |
| **Beam Angle 20°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 3.2 | 340 | 340 | 340 | 340 | 280 | 280 | 230 | □ | □ | □ | 310 |
| 30 | 9.5 | 37 | 37 | 37 | 37 | 31 | 31 | 25 | □ | □ | □ | 34 |
| 50 | 16 | 13 | 13 | 13 | 13 | 11 | 11 | 9.0 | □ | □ | □ | 12 |
| 100 | 32 | 3.4 | 3.4 | 3.4 | 3.4 | 2.8 | 2.8 | 2.3 | □ | □ | □ | 3.1 |
| 250 | 79 | 0.54 | 0.54 | 0.54 | 0.54 | 0.45 | 0.45 | 0.36 | □ | □ | □ | 0.49 |
| **Beam Angle 30°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 4.8 | 150 | 150 | 150 | 150 | 120 | 120 | 98 | □ | □ | □ | 130 |
| 30 | 15 | 16 | 16 | 16 | 16 | 14 | 14 | 11 | □ | □ | □ | 15 |
| 50 | 24 | 5.8 | 5.8 | 5.8 | 5.8 | 4.9 | 4.9 | 3.9 | □ | □ | □ | 5.4 |
| 100 | 48 | 1.5 | 1.5 | 1.5 | 1.5 | 1.2 | 1.2 | 0.98 | □ | □ | □ | 1.3 |
| 250 | 121 | 0.23 | 0.23 | 0.23 | 0.23 | 0.20 | 0.20 | 0.16 | □ | □ | □ | 0.21 |
| **Beam Angle 50°** | | | | | | | | | | | | |
| D (m) | Φ (m) | Center Beam Illuminance (lx) | | | | | | | | | | |
| 10 | 10 | 53 | 53 | 53 | 53 | 44 | 44 | 35 | □ | □ | □ | 48 |
| 30 | 31 | 5.8 | 5.8 | 5.8 | 5.8 | 4.9 | 4.9 | 3.9 | □ | □ | □ | 5.4 |
| 50 | 51 | 2.1 | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 | 1.4 | □ | □ | □ | 1.9 |
| 100 | 102 | 0.53 | 0.53 | 0.53 | 0.53 | 0.44 | 0.44 | 0.35 | □ | □ | □ | 0.48 |
| 250 | 256 | 0.084 | 0.084 | 0.084 | 0.084 | 0.070 | 0.070 | 0.056 | □ | □ | □ | 0.077 |

D (m) = Distance / Φ (m) = 1/2 Illuminance Beam

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☐Narrow-angle type LLF0112A / MWWD017 / ☐☐/☐/ ☐☐/S / BK / S / C / CE / 1
Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f

☐Medium-angle type LLF0112A / MWWD028 / ☐☐/☐/ ☐☐/S / BK / S / C / CE / 1
Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [S] = ON/OFF Control
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
Blue conforms only to CE standard.
The 2200K product conforms only to PSE.
f : Ver. [1] = Version 1

The Part No. in the table below only indicates the light source color and light distribution angle.

## ON/OFF type

| Specification | | 6500K | 5700K | 5000K | 4000K | 3000K | 2700K | 2200K | Red | Green | Blue | Gold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐Narrow-angle type | | | | | | | | | | | | |
| 1/2 Beam angle 1.5° | Part No. | ☐ | ☐ | 50/X/XN | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | Center luminous intensity (cd) | ☐ | ☐ | 795,000 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | Luminous flux (lm) | ☐ | ☐ | 628 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| | Rated power consumption (W) | ☐ | ☐ | 15.7 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| 1/2 Beam angle 2.5° | Part No. | 65/X/VN | 57/X/VN | 50/X/VN | 40/X/VN | 30/X/VN | 27/X/VN | 22/X/VN | RE/N/VN | GR/N/VN | BL/N/VN | YE/N/VN |
| | Center luminous intensity (cd) | 546,000 | 546,000 | 546,000 | 546,000 | 491,000 | 417,000 | 364,000 | 111,000 | 372,000 | 33,300 | 455,000 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 3° | Part No. | 65/X/03 | 57/X/03 | 50/X/03 | 40/X/03 | 30/X/03 | 27/X/03 | 22/X/03 | RE/N/03 | GR/N/03 | BL/N/03 | YE/N/03 |
| | Center luminous intensity (cd) | 372,000 | 372,000 | 372,000 | 372,000 | 335,000 | 284,000 | 248,000 | 76,000 | 254,000 | 22,700 | 310,000 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 4° | Part No. | 65/X/04 | 57/X/04 | 50/X/04 | 40/X/04 | 30/X/04 | 27/X/04 | 22/X/04 | RE/N/04 | GR/N/04 | BL/N/04 | YE/N/04 |
| | Center luminous intensity (cd) | 193,000 | 193,000 | 193,000 | 193,000 | 174,000 | 147,000 | 129,000 | 39,400 | 132,000 | 11,800 | 161,000 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 5° | Part No. | 65/X/05 | 57/X/05 | 50/X/05 | 40/X/05 | 30/X/05 | 27/X/05 | 22/X/05 | RE/N/05 | GR/N/05 | BL/N/05 | YE/N/05 |
| | Center luminous intensity (cd) | 109,000 | 109,000 | 109,000 | 109,000 | 97,900 | 83,100 | 72,700 | 22,200 | 74,200 | 6,630 | 90,800 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 6° | Part No. | 65/X/06 | 57/X/06 | 50/X/06 | 40/X/06 | 30/X/06 | 27/X/06 | 22/X/06 | RE/N/06 | GR/N/06 | BL/N/06 | YE/N/06 |
| | Center luminous intensity (cd) | 79,600 | 79,600 | 79,600 | 79,600 | 71,600 | 60,700 | 53,200 | 16,300 | 54,300 | 4,850 | 66,400 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 7° | Part No. | 65/X/07 | 57/X/07 | 50/X/07 | 40/X/07 | 30/X/07 | 27/X/07 | 22/X/07 | RE/N/07 | GR/N/07 | BL/N/07 | YE/N/07 |
| | Center luminous intensity (cd) | 60,600 | 60,600 | 60,600 | 60,600 | 54,500 | 46,300 | 40,500 | 12,400 | 41,300 | 3,690 | 50,500 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 8° | Part No. | 65/X/08 | 57/X/08 | 50/X/08 | 40/X/08 | 30/X/08 | 27/X/08 | 22/X/08 | RE/N/08 | GR/N/08 | BL/N/08 | YE/N/08 |
| | Center luminous intensity (cd) | 45,500 | 45,500 | 45,500 | 45,500 | 40,900 | 34,700 | 30,400 | 9,290 | 31,000 | 2,770 | 37,900 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| 1/2 Beam angle 9° | Part No. | 65/X/09 | 57/X/09 | 50/X/09 | 40/X/09 | 30/X/09 | 27/X/09 | 22/X/09 | RE/N/09 | GR/N/09 | BL/N/09 | YE/N/09 |
| | Center luminous intensity (cd) | 37,700 | 37,700 | 37,700 | 37,700 | 33,900 | 28,800 | 25,200 | 7,700 | 25,700 | 2,300 | 31,400 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| ☐Medium-angle type | | | | | | | | | | | | |
| 1/2 Beam angle 10° | Part No. | 65/X/10 | 57/X/10 | 50/X/10 | 40/X/10 | 30/X/10 | 27/X/10 | 22/X/10 | ☐ | ☐ | ☐ | YE/N/10 |
| | Center luminous intensity (cd) | 91,800 | 91,800 | 91,800 | 91,800 | 76,500 | 76,500 | 61,200 | ☐ | ☐ | ☐ | 84,200 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | ☐ | ☐ | ☐ | 28.3 |
| 1/2 Beam angle 20° | Part No. | 65/X/20 | 57/X/20 | 50/X/20 | 40/X/20 | 30/X/20 | 27/X/20 | 22/X/20 | ☐ | ☐ | ☐ | YE/N/20 |
| | Center luminous intensity (cd) | 33,700 | 33,700 | 33,700 | 33,700 | 28,100 | 28,100 | 22,500 | ☐ | ☐ | ☐ | 30,900 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | ☐ | ☐ | ☐ | 28.3 |
| 1/2 Beam angle 30° | Part No. | 65/X/30 | 57/X/30 | 50/X/30 | 40/X/30 | 30/X/30 | 27/X/30 | 22/X/30 | ☐ | ☐ | ☐ | YE/N/30 |
| | Center luminous intensity (cd) | 14,600 | 14,600 | 14,600 | 14,600 | 12,200 | 12,200 | 9,760 | ☐ | ☐ | ☐ | 13,400 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | ☐ | ☐ | ☐ | 28.3 |
| NEW 1/2 Beam angle 50° | Part No. | 65/X/50 | 57/X/50 | 50/X/50 | 40/X/50 | 30/X/50 | 27/X/50 | 22/X/50 | ☐ | ☐ | ☐ | YE/N/50 |
| | Center luminous intensity (cd) | 5,260 | 5,260 | 5,260 | 5,260 | 4,380 | 4,380 | 3,510 | ☐ | ☐ | ☐ | 4,820 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | ☐ | ☐ | ☐ | 28.3 |

Rated power consumptions under condition of AC100V. Values in this catalog are for reference only and are not guaranteed.





☐Narrow-angle type LLF0112A / MWWD017 / ☐☐/☐/ ☐☐S / BK / ☐/CE / 1
Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f

☐Medium-angle type LLF0112A / MWWD028 / ☐☐/☐/ ☐☐S / BK / ☐/CE / 1
Product Name / Control Name / Light Source Code / Light Distribution Angle / a / b / c / d / e / f

a : Installed type [S] = Standard installation
b : Body color [BK] = Charcoal grey
c : Control [ B ] = 0-10V dimming (Curve: Log)
Control [ E ] = 0-10V dimming (Curve: Linear)
Control [ C ] = DALI dimming (Curve: Log)
Control [ F ] = DALI dimming (Curve: Linear)
Control [ D ] = DMX dimming (Curve: Log)
Control [ G ] = DMX dimming (Curve: Linear)
d : Painting specification [C] = Heavy-duty salt resistance
e : Standard [CE] = CE/PSE
Standard [TS] = TIS
Blue conforms only to CE standard.
The 2200K product conforms only to PSE.
f : Ver. [1] = Version 1

The Part No. in the table below only indicates the light source color and light distribution angle.

## Dimmable type

| Specification | | 6500K | 5700K | 5000K | 4000K | 3000K | 2700K | 2200K | Red | Green | Blue | Gold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐Narrow-angle type | | | | | | | | | | | | |
| 1/2 Beam angle 2.5° | Part No. | 65/X/VN | 57/X/VN | 50/X/VN | 40/X/VN | 30/X/VN | 27/X/VN | 22/X/VN | RE/N/VN | GR/N/VN | BL/N/VN | YE/N/VN |
| | Center luminous intensity (cd) | 546,000 | 546,000 | 546,000 | 546,000 | 491,000 | 417,000 | 364,000 | 111,000 | 372,000 | 33,300 | 455,000 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 3° | Part No. | 65/X/03 | 57/X/03 | 50/X/03 | 40/X/03 | 30/X/03 | 27/X/03 | 22/X/03 | RE/N/03 | GR/N/03 | BL/N/03 | YE/N/03 |
| | Center luminous intensity (cd) | 372,000 | 372,000 | 372,000 | 372,000 | 335,000 | 284,000 | 248,000 | 76,000 | 254,000 | 22,700 | 310,000 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 4° | Part No. | 65/X/04 | 57/X/04 | 50/X/04 | 40/X/04 | 30/X/04 | 27/X/04 | 22/X/04 | RE/N/04 | GR/N/04 | BL/N/04 | YE/N/04 |
| | Center luminous intensity (cd) | 193,000 | 193,000 | 193,000 | 193,000 | 174,000 | 147,000 | 129,000 | 39,400 | 132,000 | 11,800 | 161,000 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 5° | Part No. | 65/X/05 | 57/X/05 | 50/X/05 | 40/X/05 | 30/X/05 | 27/X/05 | 22/X/05 | RE/N/05 | GR/N/05 | BL/N/05 | YE/N/05 |
| | Center luminous intensity (cd) | 109,000 | 109,000 | 109,000 | 109,000 | 97,900 | 83,100 | 72,700 | 22,200 | 74,200 | 6,630 | 90,800 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 6° | Part No. | 65/X/06 | 57/X/06 | 50/X/06 | 40/X/06 | 30/X/06 | 27/X/06 | 22/X/06 | RE/N/06 | GR/N/06 | BL/N/06 | YE/N/06 |
| | Center luminous intensity (cd) | 79,600 | 79,600 | 79,600 | 79,600 | 71,600 | 60,700 | 53,200 | 16,300 | 54,300 | 4,850 | 66,400 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 7° | Part No. | 65/X/07 | 57/X/07 | 50/X/07 | 40/X/07 | 30/X/07 | 27/X/07 | 22/X/07 | RE/N/07 | GR/N/07 | BL/N/07 | YE/N/07 |
| | Center luminous intensity (cd) | 60,600 | 60,600 | 60,600 | 60,600 | 54,500 | 46,300 | 40,500 | 12,400 | 41,300 | 3,690 | 50,500 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 8° | Part No. | 65/X/08 | 57/X/08 | 50/X/08 | 40/X/08 | 30/X/08 | 27/X/08 | 22/X/08 | RE/N/08 | GR/N/08 | BL/N/08 | YE/N/08 |
| | Center luminous intensity (cd) | 45,500 | 45,500 | 45,500 | 45,500 | 40,900 | 34,700 | 30,400 | 9,290 | 31,000 | 2,770 | 37,900 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| 1/2 Beam angle 9° | Part No. | 65/X/09 | 57/X/09 | 50/X/09 | 40/X/09 | 30/X/09 | 27/X/09 | 22/X/09 | RE/N/09 | GR/N/09 | BL/N/09 | YE/N/09 |
| | Center luminous intensity (cd) | 37,700 | 37,700 | 37,700 | 37,700 | 33,900 | 28,800 | 25,200 | 7,700 | 25,700 | 2,300 | 31,400 |
| | Luminous flux (lm) | 757 | 757 | 757 | 757 | 681 | 622 | 544 | 148 | 524 | 80.2 | 710 |
| | Rated power consumption (W) DALI dimming | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9 | 16.1 | 15.6 | 16.9 | 16.9 |
| | Rated power consumption (W) 0-10V/DMX dimming | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 17.8 | 16.7 | 16.4 | 17.8 | 17.8 |
| ☐Medium-angle type | | | | | | | | | | | | |
| 1/2 Beam angle 10° | Part No. | 65/X/10 | 57/X/10 | 50/X/10 | 40/X/10 | 30/X/10 | 27/X/10 | 22/X/10 | ☐ | ☐ | ☐ | YE/N/10 |
| | Center luminous intensity (cd) | 91,800 | 91,800 | 91,800 | 91,800 | 76,500 | 76,500 | 61,200 | ☐ | ☐ | ☐ | 84,200 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) DALI dimming | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | ☐ | ☐ | ☐ | 28.7 |
| | Rated power consumption (W) 0-10V/DMX dimming | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | ☐ | ☐ | ☐ | 29.8 |
| 1/2 Beam angle 20° | Part No. | 65/X/20 | 57/X/20 | 50/X/20 | 40/X/20 | 30/X/20 | 27/X/20 | 22/X/20 | ☐ | ☐ | ☐ | YE/N/20 |
| | Center luminous intensity (cd) | 33,700 | 33,700 | 33,700 | 33,700 | 28,100 | 28,100 | 22,500 | ☐ | ☐ | ☐ | 30,900 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) DALI dimming | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | ☐ | ☐ | ☐ | 28.7 |
| | Rated power consumption (W) 0-10V/DMX dimming | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | ☐ | ☐ | ☐ | 29.8 |
| 1/2 Beam angle 30° | Part No. | 65/X/30 | 57/X/30 | 50/X/30 | 40/X/30 | 30/X/30 | 27/X/30 | 22/X/30 | ☐ | ☐ | ☐ | YE/N/30 |
| | Center luminous intensity (cd) | 14,600 | 14,600 | 14,600 | 14,600 | 12,200 | 12,200 | 9,760 | ☐ | ☐ | ☐ | 13,400 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) DALI dimming | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | ☐ | ☐ | ☐ | 28.7 |
| | Rated power consumption (W) 0-10V/DMX dimming | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | ☐ | ☐ | ☐ | 29.8 |
| NEW 1/2 Beam angle 50° | Part No. | 65/X/50 | 57/X/50 | 50/X/50 | 40/X/50 | 30/X/50 | 27/X/50 | 22/X/50 | ☐ | ☐ | ☐ | YE/N/50 |
| | Center luminous intensity (cd) | 5,260 | 5,260 | 5,260 | 5,260 | 4,380 | 4,380 | 3,510 | ☐ | ☐ | ☐ | 4,820 |
| | Luminous flux (lm) | 2,350 | 2,350 | 2,350 | 2,350 | 1,960 | 1,960 | 1,570 | ☐ | ☐ | ☐ | 2,160 |
| | Rated power consumption (W) DALI dimming | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | ☐ | ☐ | ☐ | 28.7 |
| | Rated power consumption (W) 0-10V/DMX dimming | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | ☐ | ☐ | ☐ | 29.8 |

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