

FEATURES

- 3 different sharp beam angles
- Wide variety of TM30 optimized LEDs
- ENEC approved drivers
- IEEE P1789 Flickerfree driver to 1%



LV 45° / 65°



SPRINGS

Standard with CS springs (concrete/gypsum).
Also available as above with
WS springs (gypsum/metal).



LV 80° (on request)

COLOURS

Available colours:



Matt white RAL 9016 (XX=MW)
Matt grey RAL 9006 (XX=GR)
Matt black RAL 9005 (XX=BL)

Linea DS-F 150 LV(-HE)

Fixed

SPECIFICATIONS

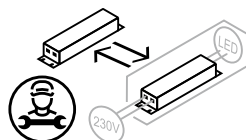
| | |
|----------------------------|--|
| Beam angle (FWHM) | 45° / 65° (80° on request) |
| Fixture material | Die cast aluminium / Glass |
| Environment | Indoor |
| IP rate | IP20 / IP44 |
| IK rate | IK09 |
| Operating temperature (Ta) | -20°C / +45°C ¹ |
| Safety marks | EN60598 / EN62031 / EN62471 |
| EMC compliance | EN55015 |
| Colour consistency (SDCM) | MacAdam step 3 |
| Warranty | 7 years * (within the European Union and the countries of the Free Trade Association for products delivered after 1 May 2015) |
| Energy class | These products contains a light source of energy efficiency class: CR197 - F (3000K) & CR182 - E (3000K) / D (4000K) |

This luminaire contains built-in LED lamps. The lamps cannot be changed in the luminaire. EU 874/2012

¹ In applications with a flat roof (fi. car showrooms) the temperatures may exceed 45°C. Please ask our sales office for a special driver.



Ask our sales department about the possibilities for:
- Tunable white 2700-6500K.
- High CRI LED options



Only when the product is installed in a closed ceiling it may be exposed to water splashes, and only on its front side.



LINEA DS-F 150 LV(-HE) VARIATIONS

| | | | | | |
|----------------------|-------|------------|-------------|--------------------|--------|
| Linea DS-F 150 LV-HE | CRI82 | 3000/4000K | 3575/3650Lm | incl. power supply | page 3 |
| Linea DS-F 150 LV-HE | CRI82 | 3000/4000K | 5550/5800Lm | incl. power supply | page 4 |
| Linea DS-F 150 LV | CRI97 | 3000K | 2500Lm | incl. power supply | page 5 |
| Linea DS-F 150 LV | CRI97 | 3000K | 3250/3750Lm | incl. power supply | page 6 |

CRI82 CHOOSE YOUR LV LUMEN OUTPUT

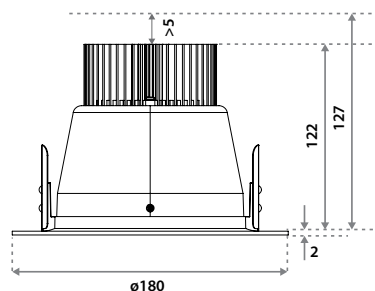
| | mA | W | Lumen Output | | Lumen / Watt | | UGR | | Driver types | | | | |
|------------------------|------|------|--------------|-------|--------------|-------|-------|------|--------------|------------|------------|--------|------------|
| | | | 3000K | 4000K | 3000K | 4000K | 3000K | | No dim | Triac | 1-10V&Push | Dali | Casambi |
| | | | | | | | 45° | 65° | | | | | |
| <i>Special request</i> | 250 | 9.2 | 1350 | 1400 | 147 | 152 | | | CC21W150-500 | x | 126421 | 127576 | x |
| <i>Special request</i> | 350 | 13.1 | 1850 | 1900 | 141 | 145 | | | CC21W150-500 | x | 127021 | 127576 | 127630 |
| <i>Special request</i> | 500 | 19.4 | 2525 | 2600 | 130 | 134 | | | CC21W150-500 | 127032 | 127021 | 127576 | 127630 |
| Standard | 700 | 27.9 | 3575 | 3650 | 128 | 131 | 16.2 | 19.1 | CC30W350-700 | 122260 | 127021 | 127576 | 127630 |
| <i>Special request</i> | 800 | 32.4 | 3825 | 4050 | 118 | 125 | | | 127484 | on request | 127021 | 127490 | 127630 |
| <i>Special request</i> | 900 | 36.8 | 4300 | 4500 | 117 | 122 | | | 127484 | on request | 127021 | 127490 | 127630 |
| <i>Special request</i> | 1050 | 43.7 | 4900 | 5100 | 112 | 117 | | | 127484 | on request | 127021 | 127490 | 127630 |
| Standard | 1200 | 51.2 | 5550 | 5800 | 108 | 113 | 17.7 | 20.6 | 127690 | on request | 123170 | 123170 | On request |

CRI97 CHOOSE YOUR LV LUMEN OUTPUT

| | mA | W | Lumen Output | | Lumen / Watt | | UGR | | Driver types | | | | |
|------------------------|------|------|-------------------|-------|--------------|-------|-------|------|--------------|------------|------------|--------|------------|
| | | | 3000K | 3000K | 3000K | 3000K | 3000K | | No dim | Triac | 1-10V&Push | Dali | Casambi |
| | | | | | | | 45° | 65° | | | | | |
| <i>Special request</i> | 250 | 9.4 | 800 | | 85 | | | | CC21W150-500 | x | 126421 | 127576 | x |
| <i>Special request</i> | 350 | 13.2 | 1100 | | 83 | | | | CC21W150-500 | x | 127021 | 127576 | 127630 |
| <i>Special request</i> | 500 | 17.9 | 1450 | | 81 | | | | CC21W150-500 | 127032 | 127021 | 127576 | 127630 |
| <i>Special request</i> | 700 | 27.0 | 2150 | | 80 | | | | CC30W350-700 | 122260 | 127021 | 127576 | 127630 |
| Standard | 800 | 32.1 | 2500 | | 78 | | 15.0 | 17.9 | 127484 | on request | 127021 | 127490 | 127630 |
| <i>Special request</i> | 900 | 35.5 | 2700 | | 76 | | | | 127484 | on request | 127021 | 127490 | 127630 |
| <i>Special request</i> | 1050 | 41.7 | 3000 | | 72 | | | | 127484 | on request | 127021 | 127490 | 127630 |
| Standard | 1200 | 50.5 | 3250 ¹ | | 64 | | 15.9 | 18.8 | 127690 | on request | 123170 | 123170 | On request |
| <i>Special request</i> | 1400 | 57.2 | 3750 ² | | 66 | | 16.4 | 19.3 | x | on request | 123170 | 123170 | On request |

¹ For large downlights CRI97 No dim. ² For large downlights CR97 1-10V and Dali.

DIMENSIONS



HOLE SIZE



Using CS springs: Ø 160 mm.
Thickness ceiling 5-148 mm & recess depth 148 mm. For plasterboard ceilings or similar harder materials.



Using WS springs: Ø 150-165 mm.
Thickness ceiling 1-35 mm & recess depth 148 mm. For soft ceiling tiles. We recommend using a ceiling ring on the reverse side of the tile.

LINEA DS-F 150 LV-HE

CRI82 3575/3650LM

ITEM SPECIFICATIONS (PART A)

| Description | Item code | | UGR | Type | mA | Vf |
|---|--------------|--------------|------|-----------|-----|------|
| | CS | WS | | | | |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 45° No dim | 18N503XXJA02 | 18N503XXJJ02 | 16.2 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 45° 1-10V & Push | 18N503XXN202 | 18N503XXQ202 | 16.2 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 45° Dali | 18N503XXP202 | 18N503XXR202 | 16.2 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 65° No dim | 18N503XXJB02 | 18N503XXJK02 | 19.1 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 65° 1-10V & Push | 18N503XXN302 | 18N503XXQ302 | 19.1 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 65° Dali | 18N503XXP302 | 18N503XXR302 | 19.1 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 45° No dim | 18N503XXJC02 | 18N503XXJL02 | 16.3 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 45° 1-10V & Push | 18N503XXN402 | 18N503XXQ402 | 16.3 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 45° Dali | 18N503XXP402 | 18N503XXR402 | 16.3 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 65° No dim | 18N503XXJD02 | 18N503XXJM02 | 19.2 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 65° 1-10V & Push | 18N503XXN502 | 18N503XXQ502 | 19.2 | Incl. PSU | 700 | 35,3 |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 65° Dali | 18N503XXP502 | 18N503XXR502 | 19.2 | Incl. PSU | 700 | 35,3 |

ITEM SPECIFICATIONS (PART B)

| Description | W | Lm | Lm/W | CRI (typ.) | Pf | Ripple | Inrush current | B-16A Fuse | Safety class | Energy class |
|---|------|------|------|------------|------|--------|----------------|------------|--------------|--------------|
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 No dim | 27,9 | 3575 | 128 | 82 | 0.95 | <3% | 5A 50µS | 50 pcs | II | E |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 1-10V & Push | 27,9 | 3575 | 128 | 82 | 0.95 | <3% | 5A 50µS | 50 pcs | II | E |
| Linea DS-F LV-HE 3575 Lm 3000K CRI82 Dali | 27,9 | 3575 | 128 | 82 | 0.95 | <3% | 5A 50µS | 50 pcs | II | E |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 No dim | 27,9 | 3650 | 131 | 82 | 0.95 | <3% | 5A 50µS | 50 pcs | II | D |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 1-10V & Push | 27,9 | 3650 | 131 | 82 | 0.95 | <3% | 5A 50µS | 50 pcs | II | D |
| Linea DS-F LV-HE 3650 Lm 4000K CRI82 Dali | 27,9 | 3650 | 131 | 82 | 0.95 | <3% | 5A 50µS | 50 pcs | II | D |

ITEM SPECIFICATIONS (PART C)

| Description | Weight | Dimensions single carton | Quantity per carton | Expected lifespan B10 reported (25°C) | | |
|------------------------|---------|--------------------------|---------------------|---------------------------------------|-------------|-------------|
| | | | | L70B10 | L80B10 | L90B10 |
| Linea DS-F LV-HE CRI82 | 1690 gr | 185x185x160 mm | 12 pcs | >60.500 hrs | >60.500 hrs | >60.500 hrs |

All values are measured at 230V (+/- 7%)

LINEA DS-F 150 LV-HE

CRI82 5550/5800LM

ITEM SPECIFICATIONS (PART A)

| Description | Item code | | UGR | Type | mA | Vf |
|---|--------------|--------------|------|-----------|------|------|
| | CS | WS | | | | |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 45° No dim | 18N503XXCK02 | 18N503XXEK02 | 17.7 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 45° 1-10V & Push | 18N503XXNU02 | 18N503XXQU02 | 17.7 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 45° Dali | 18N503XXPU02 | 18N503XXRU02 | 17.7 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 65° No dim | 18N503XXCL02 | 18N503XXEL02 | 20.6 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 65° 1-10V & Push | 18N503XXNV02 | 18N503XXQV02 | 20.6 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 65° Dali | 18N503XXPV02 | 18N503XXRV02 | 20.6 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 45° No dim | 18N503XXCM02 | 18N503XXEM02 | 17.9 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 45° 1-10V & Push | 18N503XXNW02 | 18N503XXQW02 | 17.9 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 45° Dali | 18N503XXPW02 | 18N503XXRW02 | 17.9 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 65° No dim | 18N503XXCN02 | 18N503XXEN02 | 20.8 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 65° 1-10V & Push | 18N503XXNX02 | 18N503XXQX02 | 20.8 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 65° Dali | 18N503XXPX02 | 18N503XXRX02 | 20.8 | Incl. PSU | 1200 | 37,5 |

ITEM SPECIFICATIONS (PART B)

| Description | W | Lm | Lm/W | CRI (typ.) | Pf | Ripple | Inrush current | B-16A Fuse | Safety class | Energy class |
|---|------|------|------|------------|------|--------|----------------|------------|--------------|--------------|
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 No dim | 51,2 | 5550 | 108 | 82 | 0.95 | <3% | 10A 200µS | 30 pcs | II | E |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 1-10V & Push | 51,2 | 5550 | 108 | 82 | 0.95 | <3% | 10A 200µS | 30 pcs | I | E |
| Linea DS-F LV-HE 5550 Lm 3000K CRI82 Dali | 51,2 | 5550 | 108 | 82 | 0.95 | <3% | 10A 200µS | 30 pcs | I | E |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 No dim | 51,2 | 5800 | 113 | 82 | 0.95 | <3% | 10A 200µS | 30 pcs | II | D |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 1-10V & Push | 51,2 | 5800 | 113 | 82 | 0.95 | <3% | 10A 200µS | 30 pcs | I | D |
| Linea DS-F LV-HE 5800 Lm 4000K CRI82 Dali | 51,2 | 5800 | 113 | 82 | 0.95 | <3% | 10A 200µS | 30 pcs | I | D |

ITEM SPECIFICATIONS (PART C)

| Description | Weight | Dimensions single carton | Quantity per carton | Expected lifespan B10 reported (25°C) | | |
|------------------------|---------|--------------------------|---------------------|---------------------------------------|-------------|-------------|
| | | | | L70B10 | L80B10 | L90B10 |
| Linea DS-F LV-HE CRI82 | 1690 gr | 185x185x160 mm | 12 pcs | >60.500 hrs | >60.500 hrs | >60.500 hrs |

All values are measured at 230V (+/- 7%)

LINEA DS-F 150 LV

CRI97 2500LM

ITEM SPECIFICATIONS (PART A)

| Description | Item code | | UGR | Type | mA | Vf |
|--|--------------|--------------|------|-----------|-----|------|
| | CS | WS | | | | |
| Linea DS-F LV 2500 Lm 3000K CRI97 45° No dim | 180503XXCX02 | 180503XXEX02 | 15.0 | Incl. PSU | 800 | 35,3 |
| Linea DS-F LV 2500 Lm 3000K CRI97 45° 1-10V & Push | 180503XXN002 | 180503XXQ002 | 15.0 | Incl. PSU | 800 | 35,3 |
| Linea DS-F LV 2500 Lm 3000K CRI97 45° Dali | 180503XXP002 | 180503XXR002 | 15.0 | Incl. PSU | 800 | 35,3 |
| Linea DS-F LV 2500 Lm 3000K CRI97 65° No dim | 180503XXCY02 | 180503XXEY02 | 17.9 | Incl. PSU | 800 | 35,3 |
| Linea DS-F LV 2500 Lm 3000K CRI97 65° 1-10V & Push | 180503XXN102 | 180503XXQ102 | 17.9 | Incl. PSU | 800 | 35,3 |
| Linea DS-F LV 2500 Lm 3000K CRI97 65° Dali | 180503XXP102 | 180503XXR102 | 17.9 | Incl. PSU | 800 | 35,3 |

ITEM SPECIFICATIONS (PART B)

| Description | W | Lm | Lm/W | CRI (typ.) | Pf | Ripple | Inrush current | B-16A Fuse | Safety class | Energy class |
|--|------|------|------|------------|------|--------|----------------|------------|--------------|--------------|
| Linea DS-F LV 2500 Lm 3000K CRI97 No dim | 32,1 | 2500 | 78 | 97 | 0.95 | <3% | 5A 50µS | 50 pcs | I | F |
| Linea DS-F LV 2500 Lm 3000K CRI97 1-10V & Push | 32,1 | 2500 | 78 | 97 | 0.95 | <3% | 5A 50µS | 50 pcs | II | F |
| Linea DS-F LV 2500 Lm 3000K CRI97 Dali | 32,1 | 2500 | 78 | 97 | 0.95 | <3% | 5A 50µS | 50 pcs | II | F |

ITEM SPECIFICATIONS (PART C)

| Description | Weight | Dimensions single carton | Quantity per carton | Expected lifespan B10 reported (25°C) | | |
|-----------------------------------|---------|--------------------------|---------------------|---------------------------------------|-------------|-------------|
| | | | | L70B10 | L80B10 | L90B10 |
| Linea DS-F LV 2500 Lm 3000K CRI97 | 1690 gr | 185x185x160 mm | 12 pcs | >60.500 hrs | >60.500 hrs | >60.500 hrs |

All values are measured at 230V (+/- 7%)

LINEA DS-F 150 LV

CRI97 3750LM

ITEM SPECIFICATIONS (PART A)

| Description | Item code | | UGR | Type | mA | Vf |
|--|--------------|--------------|------|-----------|------|------|
| | CS | WS | | | | |
| Linea DS-F LV 3250 Lm 3000K CRI97 45° No dim | 180503XXCP02 | 180503XXEP02 | 15.9 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV 3750 Lm 3000K CRI97 45° 1-10V & Push | 180503XXNY02 | 180503XXQY02 | 16.4 | Incl. PSU | 1400 | 37,5 |
| Linea DS-F LV 3750 Lm 3000K CRI97 45° Dali | 180503XXPY02 | 180503XXRY02 | 16.4 | Incl. PSU | 1400 | 37,5 |
| Linea DS-F LV 3250 Lm 3000K CRI97 65° No dim | 180503XXCQ02 | 180503XXEQ02 | 18.8 | Incl. PSU | 1200 | 37,5 |
| Linea DS-F LV 3750 Lm 3000K CRI97 65° 1-10V & Push | 180503XXNZ02 | 180503XXQZ02 | 19.3 | Incl. PSU | 1400 | 37,5 |
| Linea DS-F LV 3750 Lm 3000K CRI97 65° Dali | 180503XXPZ02 | 180503XXRZ02 | 19.3 | Incl. PSU | 1400 | 37,5 |

ITEM SPECIFICATIONS (PART B)

| Description | W | Lm | Lm/W | CRI (typ.) | Pf | Ripple | Inrush current | B-16A Fuse | Safety class | Energy class |
|--|------|------|------|------------|------|--------|----------------|------------|--------------|--------------|
| Linea DS-F LV 3250 Lm 3000K CRI97 No dim | 50,5 | 3250 | 64 | 97 | 0.95 | <3% | 10A 200µS | 30 pcs | II | F |
| Linea DS-F LV 3750 Lm 3000K CRI97 1-10V & Push | 57,2 | 3750 | 66 | 97 | 0.95 | <3% | 10A 200µS | 30 pcs | I | F |
| Linea DS-F LV 3750 Lm 3000K CRI97 Dali | 57,2 | 3750 | 66 | 97 | 0.95 | <3% | 10A 200µS | 30 pcs | I | F |

ITEM SPECIFICATIONS (PART C)

| Description | Weight | Dimensions single carton | Quantity per carton | Expected lifespan B10 reported (25°C) | | |
|--|---------|--------------------------|---------------------|---------------------------------------|-------------|-------------|
| | | | | L70B10 | L80B10 | L90B10 |
| Linea DS-F LV 3250/3750 Lm 3000K CRI97 | 1690 gr | 185x185x160 mm | 12 pcs | >60.500 hrs | >60.500 hrs | >60.500 hrs |

All values are measured at 230V (+/- 7%)

NEW STANDARDS REQUIRE NEW LEDS

TM-30 (new color norm): The Illuminating Engineering Society (IES) has published a new Technical Memorandum – TM-30-15 entitled “IES Method for Evaluating Light Source Color Rendition” – that promises to supplant CRI as a color metric. TM-30 relies on separate fidelity and gamut metrics, as well as a set of color samples that is more representative of real-world objects, as opposed to the pastel samples that were primarily used for the baseline CRI metric that was sometimes called Ra. The new color metric is intended to fairly and accurately characterize both LED-based solid-state lighting (SSL) and legacy sources.



Desaturated

CRI = 82 / R_g = 94



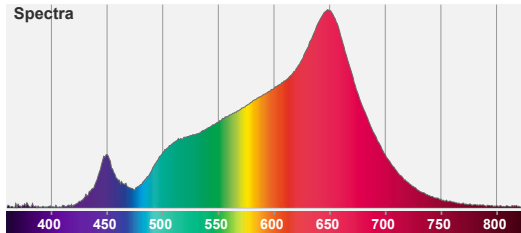
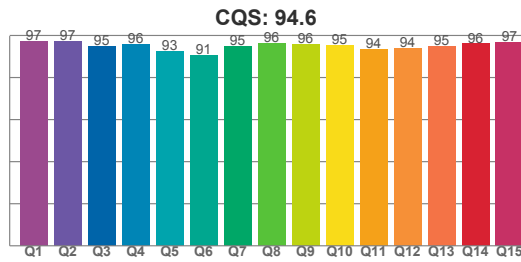
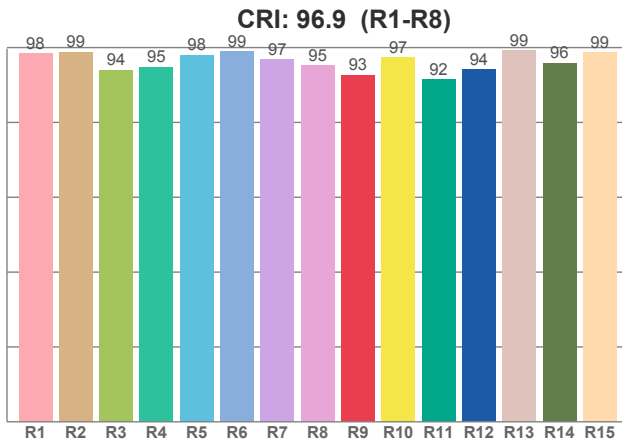
Red-Enhanced

CRI = 97 / R_g = 103

HIGH CRI LED OPTIONS

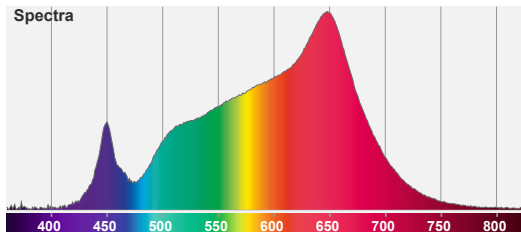
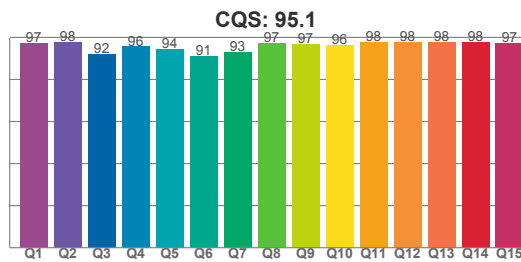
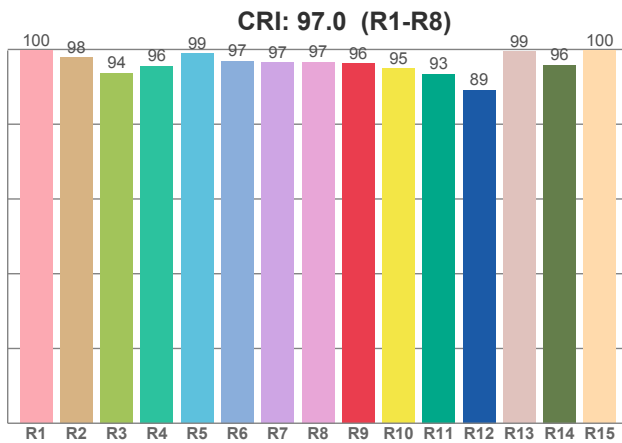
| | CCT | CRI | R9 | RF | RG | DOWNLIGHTS SMALL | | | DOWNLIGHTS LARGE | | DOWNLIGHTS LARGE | | BRAND | ITEM CODE |
|--------------|-------|-----|----|----|-----|------------------|------|------|------------------|------|------------------|------|---------------|------------|
| | | | | | | MA | LM | LM/W | MA | LM | MA | LM | | |
| CRI82 | 2700K | 82 | 5 | 83 | 94 | 350 | 1650 | 128 | 700 | 3400 | 1200 | 5300 | Bridgelux ksf | 51-4087-27 |
| CRI82 | 3000K | 82 | 7 | 86 | 95 | 350 | 1725 | 134 | 700 | 3575 | 1200 | 5550 | Bridgelux ksf | 51-4087-30 |
| CRI82 | 4000K | 82 | 18 | 84 | 96 | 350 | 1750 | 136 | 700 | 3650 | 1200 | 5800 | Bridgelux ksf | 51-4087-40 |
| CRI90 | 2700K | 92 | 67 | 88 | 104 | 350 | 1550 | 118 | 700 | 3150 | 1200 | 4700 | Bridgelux ksf | 51-4088-27 |
| CRI90 | 3000K | 92 | 67 | 92 | 99 | 350 | 1600 | 122 | 700 | 3250 | 1200 | 4850 | Bridgelux ksf | 51-4088-30 |
| CRI90 | 4000K | 92 | 78 | 92 | 100 | 350 | 1625 | 124 | 700 | 3300 | 1200 | 4925 | Bridgelux ksf | 51-4088-40 |
| CRI97 | 2700K | 97 | 93 | 96 | 103 | 350 | 1150 | 83 | 800 | 2300 | 1400 | 3425 | Lumileds | 50-3031-27 |
| CRI97 | 3000K | 97 | 96 | 95 | 103 | 350 | 1250 | 91 | 800 | 2500 | 1400 | 3750 | Lumileds | 50-3031-30 |
| CRI97 | 4000K | 97 | 96 | 95 | 103 | 350 | 1350 | 98 | 800 | 2700 | 1400 | 4050 | Lumileds | 50-3031-40 |

2700K



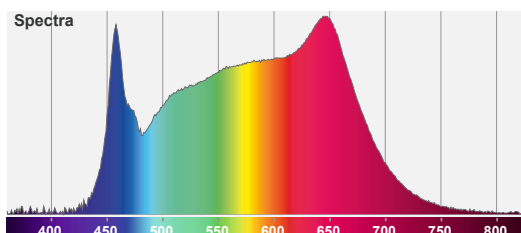
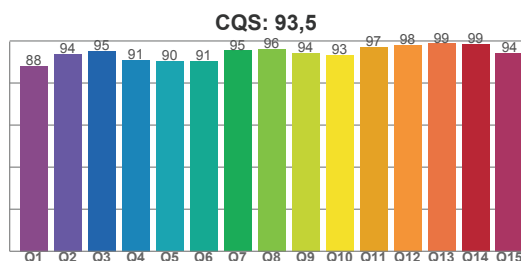
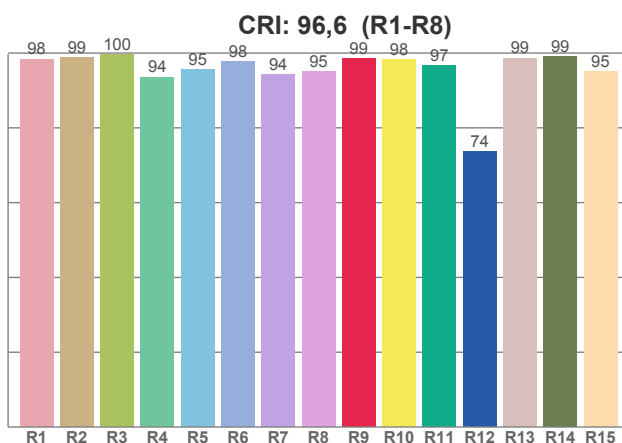
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS |
|-------|------|--------|---------|---------|------|
| 2700K | 96.9 | 92.7 | 96.0 | 102.6 | 94.6 |

3000K



| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS |
|--------|------|--------|---------|---------|------|
| 3000 K | 97.0 | 96.2 | 95.0 | 103.3 | 95.1 |

4000K



| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS |
|-------|------|--------|---------|---------|------|
| 4000K | 96.6 | 98.5 | 88.3 | 96.2 | 93.5 |