

#### FEATURES

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

Reflector  
LV 45° / 65°

Diffuser  
LV 80° (on request for CRI82)

#### COLOURS

Available colours:

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

#### SPRINGS

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

## Linea DS-F 150 LV(-HE)

Fixed

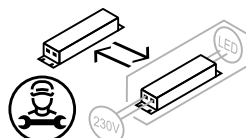
### SPECIFICATIONS

Beam angle (FWHM)	45° / 65° / 80°
Fixture material	Die cast aluminium / Glass
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK09
Operating temperature (Ta)	-20°C / +45°C <sup>1</sup>
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 contain a light source of energy efficiency class: <b>CRI95</b> - D (3000K/4000K) & <b>CRI82</b> - E (3000K) / D (4000K)

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

<sup>1</sup> 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.



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

IP20

IP44

## LINEA DS-F 150 VARIATIONS

LINEA DS-F 150 LV-HE	CRI95	3000/4000K	3300/3500Lm	incl. power supply	page 3
LINEA DS-F 150 LV-HE	CRI95	3000/4000K	5000/5300Lm	incl. power supply	page 4
LINEA DS-F 150 LV-HE	CRI82	3000/4000K	3575/3650Lm	incl. power supply	page 5
LINEA DS-F 150 LV-HE	CRI82	3000/4000K	5550/5800Lm	incl. power supply	page 6

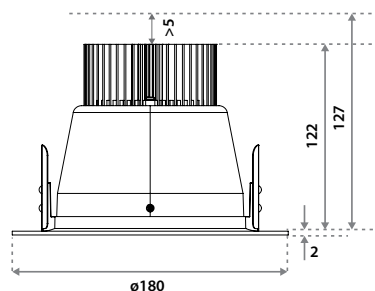
## CRI95 CHOOSE YOUR LV LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt		UGR			Driver types				
			3000K	4000K	3000K	4000K	3000K			No dim	Triac	1-10V&Push	Dali	Casambi
							45°	65°	80°					
Special request	250	9,4	1250	1275	133	136	12.6	15.4	22.7	CC21W150-500	on request	125400	142014	142047
Special request	350	13,3	1725	1750	130	132	13.7	16.6	23.9	145192	EC25CA-E1ZHP	125400	142014	142047
Special request	500	19,4	2400	2500	124	129	14.8	17.7	25.0	145192	EC25CA-E1ZHP	125400	142014	142047
Standard	700	28,0	3300	3500	118	125	15.9	18.8	26.1	145192	EC25CA-E1ZHP	126421	142014	142047
Special request	800	32,5	3725	3950	115	122	16.4	19.2	26.5	145192	on request	151100	142014	142047
Special request	900	37,0	4150	4400	112	119	16.7	19.6	26.9	145192	on request	151100	142014	142047
Special request	1050	44,1	4575	4850	104	110	17.1	19.9	27.3	145192	on request	151100	142014	142047
Standard	1200	51,3	5000	5300	97	103	17.4	20.3	27.6	127690	x	ECO561A	ECO560A	x

## 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°						
Special request	250	9.2	1350	1400	147	152	12.8	15.7		CC21W150-500	on request	125400	142014	142047
Special request	350	13.1	1850	1900	141	145	13.9	16.8		145192	EC25CA-E1ZHP	125400	142014	142047
Special request	500	19.4	2525	2600	130	134	15.0	17.9		145192	EC25CA-E1ZHP	125400	142014	142047
Standard	700	27.9	3575	3650	128	131	16.2	19.1		145192	EC25CA-E1ZHP	126421	142014	142047
Special request	800	32.4	3825	4050	118	125	16.5	19.3		145192	on request	151100	142014	142047
Special request	900	36.8	4300	4500	117	122	16.9	19.7		145192	on request	151100	142014	142047
Special request	1050	43.7	4900	5100	112	117	17.3	20.2		145192	on request	151100	142014	142047
Standard	1200	51.2	5550	5800	108	113	17.7	20.6	127690	x	ECO561A	ECO560A	x	

## DIMENSIONS



## CUT-OUT



Using **CS springs**: Ø 160 mm.  
Thickness ceiling 5-127 mm & recess depth 127 mm. For plasterboard ceilings or similar harder materials.



Using **WS springs**: Ø 150-165 mm.  
Thickness ceiling 1-35 mm & recess depth 127 mm. For soft ceiling tiles. We recommend using a ceiling ring on the reverse side of the tile.

**LINEA DS-F 150 LV-HE**

**CRI95 3300/3500LM**

**ITEM SPECIFICATIONS (PART A)**

Description	Item code		UGR	Type	mA	Vf
	CS	WS				
Linea DS-F LV-HE 3300 Lm 3000K CRI95 45° No dim	18R503XXJA02	18R503XXJJ02	15.9	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 45° 1-10V & Push	18R503XXN202	18R503XXQ202	15.9	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 45° Dali	18R503XXP202	18R503XXR202	15.9	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 65° No dim	18R503XXJB02	18R503XXJK02	18.8	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 65° 1-10V & Push	18R503XXN302	18R503XXQ302	18.8	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 65° Dali	18R503XXP302	18R503XXR302	18.8	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 80° No dim	18R503XXG602	18R503XXZ602	26.1	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 80° 1-10V & Push	18R503XXU602	18R503XXV602	26.1	Incl. PSU	700	40,0
Linea DS-F LV-HE 3300 Lm 3000K CRI95 80° Dali	18R503XXT602	18R503XXR602	26.1	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 45° No dim	18R503XXJC02	18R503XXJL02	16.1	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 45° 1-10V & Push	18R503XXN402	18R503XXQ402	16.1	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 45° Dali	18R503XXP402	18R503XXR402	16.1	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 65° No dim	18R503XXJD02	18R503XXJM02	19.0	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 65° 1-10V & Push	18R503XXN502	18R503XXQ502	19.0	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 65° Dali	18R503XXP502	18R503XXR502	19.0	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 80° No dim	18R503XXG802	18R503XXZ802	26.3	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 80° 1-10V & Push	18R503XXU802	18R503XXV802	26.3	Incl. PSU	700	40,0
Linea DS-F LV-HE 3500 Lm 4000K CRI95 80° Dali	18R503XXT802	18R503XXR802	26.3	Incl. PSU	700	40,0

**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 3300 Lm 3000K CRI95 No dim	28,0	3300	118	95	0.98	<5%	7A 13µs	50 pcs	II	D
Linea DS-F LV-HE 3300 Lm 3000K CRI95 1-10V & Push	28,0	3300	118	95	0.95	<3%	5A 50µs	50 pcs	II	D
Linea DS-F LV-HE 3300 Lm 3000K CRI95 Dali	28,0	3300	118	95	0.95	<3%	5A 50µs	50 pcs	II	D
Linea DS-F LV-HE 3500 Lm 4000K CRI95 No dim	28,0	3500	125	95	0.98	<5%	7A 13µs	50 pcs	II	D
Linea DS-F LV-HE 3500 Lm 4000K CRI95 1-10V & Push	28,0	3500	125	95	0.95	<3%	5A 50µs	50 pcs	II	D
Linea DS-F LV-HE 3500 Lm 4000K CRI95 Dali	28,0	3500	125	95	0.95	<3%	5A 50µs	50 pcs	II	D

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected Lifetime			Reported Lifetime*		
				L70B10	L80B10	L90B10	L70B10	L80B10	L90B10
Linea DS-F LV-HE CRI95	1690 gr	185x185x160 mm	12 pcs	653.000 hrs	529.000 hrs	465.000 hrs	>105.000 hrs	>105.000 hrs	>105.000 hrs

All values are measured at 230V (+/- 7%). \* Based on 19.000hrs of LM80 testing at 1200mA and a Tc85°C.

**LINEA DS-F 150 LV-HE**

**CRI95 5000/5300LM**

**ITEM SPECIFICATIONS (PART A)**

Description	Item code		UGR	Type	mA	Vf
	CS	WS				
Linea DS-F LV-HE 5000 Lm 3000K CRI95 45° No dim	18R503XXCK02	18R503XXEK02	17.4	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 45° 1-10V & Push	18R503XXNU02	18R503XXQU02	17.4	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 45° Dali	18R503XXPU02	18R503XXRU02	17.4	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 65° No dim	18R503XXCL02	18R503XXEL02	20.3	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 65° 1-10V & Push	18R503XXNV02	18R503XXQV02	20.3	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 65° Dali	18R503XXPV02	18R503XXRV02	20.3	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 80° No dim	18R503XXG702	18R503XXZ702	27.6	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 80° 1-10V & Push	18R503XXU702	18R503XXV702	27.6	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5000 Lm 3000K CRI95 80° Dali	18R503XXT702	18R503XXR702	27.6	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 45° No dim	18R503XXCM02	18R503XXEM02	17.6	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 45° 1-10V & Push	18R503XXNW02	18R503XXQW02	17.6	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 45° Dali	18R503XXPW02	18R503XXRW02	17.6	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 65° No dim	18R503XXCN02	18R503XXEN02	20.5	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 65° 1-10V & Push	18R503XXNX02	18R503XXQX02	20.5	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 65° Dali	18R503XXPX02	18R503XXRX02	20.5	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 80° No dim	18R503XXG902	18R503XXZ902	27.8	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 80° 1-10V & Push	18R503XXU902	18R503XXV902	27.8	Incl. PSU	1200	42,7
Linea DS-F LV-HE 5300 Lm 4000K CRI95 80° Dali	18R503XXT902	18R503XXR902	27.8	Incl. PSU	1200	42,7

**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 5000 Lm 3000K CRI95 No dim	51,3	5000	97	95	0.95	<3%	5A 50μs	50 pcs	II	D
Linea DS-F LV-HE 5000 Lm 3000K CRI95 1-10V & Push	51,3	5000	97	95	0.95	<3%	100mA²s	22 pcs	II	D
Linea DS-F LV-HE 5000 Lm 3000K CRI95 Dali	51,3	5000	97	95	0.95	<3%	100mA²s	22 pcs	II	D
Linea DS-F LV-HE 5300 Lm 4000K CRI95 No dim	51,3	5300	103	95	0.95	<3%	5A 50μs	50 pcs	II	D
Linea DS-F LV-HE 5300 Lm 4000K CRI95 1-10V & Push	51,3	5300	103	95	0.95	<3%	100mA²s	22 pcs	II	D
Linea DS-F LV-HE 5300 Lm 4000K CRI95 Dali	51,3	5300	103	95	0.95	<3%	100mA²s	22 pcs	II	D

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected Lifetime			Reported Lifetime*		
				L70B10	L80B10	L90B10	L70B10	L80B10	L90B10
Linea DS-F LV-HE CRI95	1690 gr	185x185x160 mm	12 pcs	653.000 hrs	529.000 hrs	465.000 hrs	>105.000 hrs	>105.000 hrs	>105.000 hrs

All values are measured at 230V (+/- 7%). \* Based on 19.000hrs of LM80 testing at 1200mA and a Tc85°C.

**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	0.98	<5%	7A 13µS	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	0.98	<5%	7A 13µS	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 Lifetime			Reported Lifetime*		
				L70B10	L80B10	L90B10	L70B10	L80B10	L90B10
Linea DS-F LV-HE CRI82	1690 gr	185x185x160 mm	12 pcs	653.000 hrs	529.000 hrs	465.000 hrs	>105.000 hrs	>105.000 hrs	>105.000 hrs

All values are measured at 230V (+/- 7%). \* Based on 19.000hrs of LM80 testing at 1200mA and a Tc85°C.

**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)**

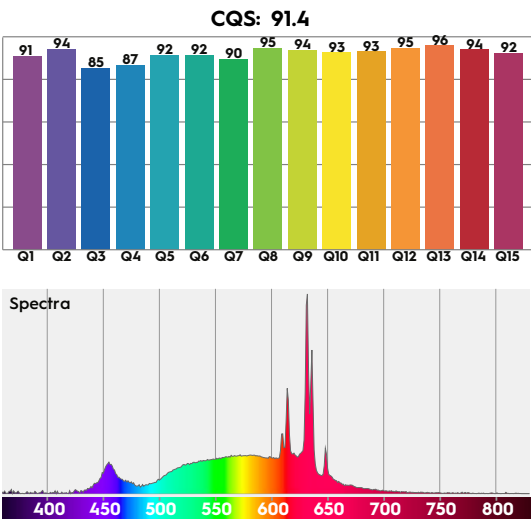
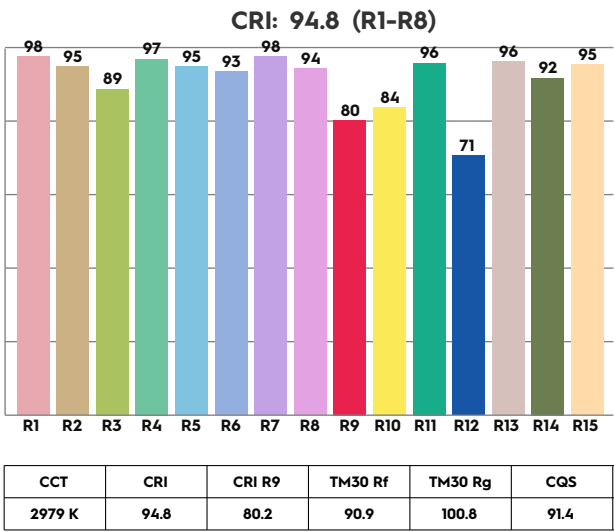
Description	W	Lm	Lm/W	CRI (typ.)	Pf	Ripple	Inrush current	B-16A Fuse	Safety class	Energy class
Linea DS-F LV-HE 5550 Lm 3000K CRI82 No dim	51,2	5550	108	82	0.95	<3%	5A 50µs	50 pcs	II	E
Linea DS-F LV-HE 5550 Lm 3000K CRI82 1-10V & Push	51,2	5550	108	82	0.95	<3%	100mA²s	22 pcs	II	E
Linea DS-F LV-HE 5550 Lm 3000K CRI82 Dali	51,2	5550	108	82	0.95	<3%	100mA²s	22 pcs	II	E
Linea DS-F LV-HE 5800 Lm 4000K CRI82 No dim	51,2	5800	113	82	0.95	<3%	5A 50µs	50 pcs	II	D
Linea DS-F LV-HE 5800 Lm 4000K CRI82 1-10V & Push	51,2	5800	113	82	0.95	<3%	100mA²s	22 pcs	II	D
Linea DS-F LV-HE 5800 Lm 4000K CRI82 Dali	51,2	5800	113	82	0.95	<3%	100mA²s	22 pcs	II	D

**ITEM SPECIFICATIONS (PART C)**

Description	Weight	Dimensions single carton	Quantity per carton	Expected Lifetime			Reported Lifetime*		
				L70B10	L80B10	L90B10	L70B10	L80B10	L90B10
Linea DS-F LV-HE CRI82	1690 gr	185x185x160 mm	12 pcs	653.000 hrs	529.000 hrs	465.000 hrs	>105.000 hrs	>105.000 hrs	>105.000 hrs

All values are measured at 230V (+/- 7%). \* Based on 19.000hrs of LM80 testing at 1200mA and a Tc85°C.

3000K



4000K

