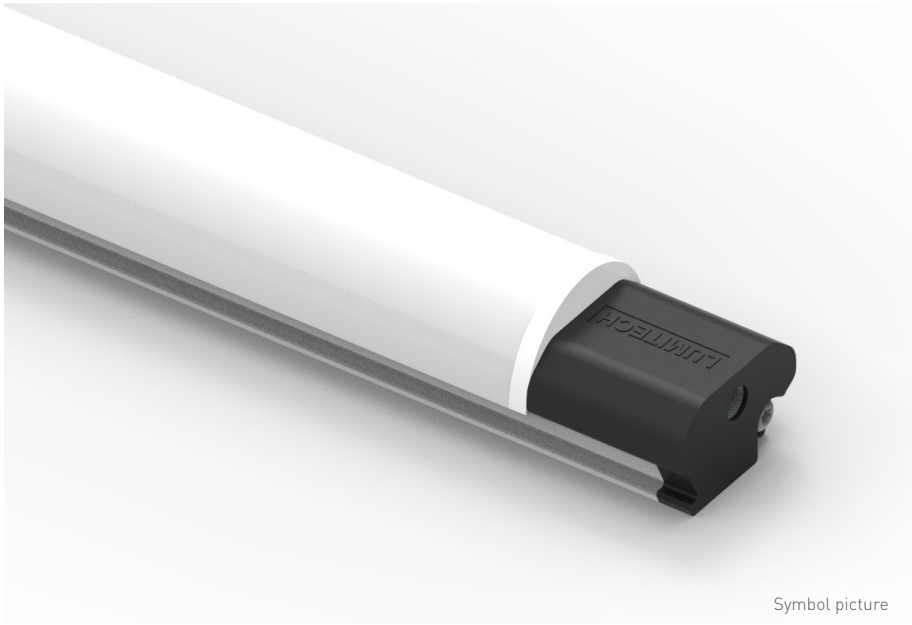
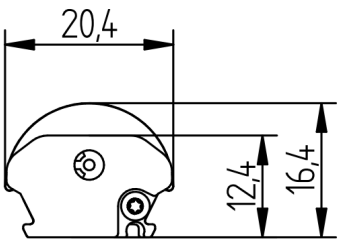
DATASHEET - WELIGHT REFIT LEDLINES



Symbol picture

PRODUCT DESCRIPTION

- High efficient & flicker free lighting
- Suitable for refit of fluorescent tubes
- Ready-to-connect solution available, thanks to Cinch Connection System
- High operational performance due to directional lighting and integrated heat dissipation
- Excellent product illumination thanks to the combination of SMD LEDs and innovative optics
- Safe-use operation due to safety extra-low voltage (SELV)
- Simple installation with application of Fixing Plates
- Heat sink profile made of extruded LowCarbon aluminium without anodisation
- LED modules protected against moisture & dust by conformal coating
- Linear lenses made of PMMA
- End caps made of PBT
- Dimming capability



TECHNICAL DATA

Supply voltage	24 V DC
Ambient temperature ta	-30 ... +30 °C
Max. surface temperature on profile tc	60°C
Type of protection	IP54
Protection class	III
Risk group (EN 62471:2008)	0

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TECHNICAL DATA | ORDER DATA

Art. No.	Type	Length	Light Colour	mA	No.of LED modules	Efficiency [lm/W]	Luminous flux [lm]	Power [W]	CRI
Light color: 4000K									
W2601	Welight 5,8W LEDline 516mm 24V REFIT for 14W T5 HE 4000K	516mm	4000K	60	4	146	820	5,6	92
W2602	Welight 7,2W LEDline 516mm 24V REFIT for 24W T5 HO 4000K	516mm	4000K	80	4	151	1090	7,2	92
W2603	Welight 5,8W LEDline 562mm 24V REFIT for 18W T8 4000K	562mm	4000K	60	4	145	900	6,2	92
W2604	Welight 7,2W LEDline 843mm 24V REFIT for 21W T5 HE 4000K	562mm	4000K	50	6	154	1170	7,6	92
W2605	Welight 11,5W LEDline 843mm 24V REFIT for 39W T5 HO 4000K	843mm	4000K	80	6	153	1850	12,1	92
W2606	Welight 11,5W LEDline 1124mm 24V REFIT for 28W T5 HE 4000K	1124mm	4000K	60	8	147	1890	12,9	92
W2607	Welight 19,2W LEDline 1124mm 24V REFIT for 54W T5 HO 4000K	1124mm	4000K	100	8	144	3040	21,1	92
W2608	Welight 11,5W LEDline 1170mm 24V REFIT for 36W T8 4000K	1170mm	4000K	60	8	146	1970	13,5	92
W2609	Welight 12,0W LEDline 1450mm 24V REFIT for 35W T5 HE 4000K	1450mm	4000K	50	10	153	2060	13,5	92
W2610	Welight 16,8W LEDline 1450mm 24V REFIT for 49W T5 HO 4000K	1450mm	4000K	70	10	152	2740	18,0	92
W2611	Welight 19,2W LEDline 1450mm 24V REFIT for 58W T8 4000K	1450mm	4000K	80	10	150	3260	21,8	92
W2612	Welight 24,0W LEDline 1450mm 24V REFIT for 80W T5 HO 4000K	1450mm	4000K	100	10	144	3970	27,6	92
Light color: 3000K									
W2501	Welight 5,8W LEDline 516mm 24V REFIT for 14W T5 HE 3000K	516mm	3000K	60	4	141	790	5,6	92
W2502	Welight 7,7W LEDline 516mm 24V REFIT for 24W T5 HO 3000K	516mm	3000K	80	4	146	1050	7,2	92
W2503	Welight 5,8W LEDline 562mm 24V REFIT for 18W T8 3000K	562mm	3000K	60	4	140	870	6,2	92
W2504	Welight 7,2W LEDline 843mm 24V REFIT for 21W T5 HE 3000K	562mm	3000K	50	6	149	1130	7,6	92
W2505	Welight 11,5W LEDline 843mm 24V REFIT for 39W T5 HO 3000K	843mm	3000K	80	6	148	1790	12,1	92
W2506	Welight 11,5W LEDline 1124mm 24V REFIT for 28W T5 HE 3000K	1124mm	3000K	60	8	142	1830	12,9	92
W2507	Welight 19,2W LEDline 1124mm 24V REFIT for 54W T5 HO 3000K	1124mm	3000K	100	8	140	2950	21,1	92
W2508	Welight 11,5W LEDline 1170mm 24V REFIT for 36W T8 3000K	1170mm	3000K	60	8	141	1910	13,5	92
W2509	Welight 12,0W LEDline 1450mm 24V REFIT for 35W T5 HE 3000K	1450mm	3000K	50	10	148	2000	13,5	92
W2510	Welight 16,8W LEDline 1450mm 24V REFIT for 49W T5 HO 3000K	1450mm	3000K	70	10	148	2660	18,0	92
W2511	Welight 19,2W LEDline 1450mm 24V REFIT for 58W T8 3000K	1450mm	3000K	80	10	145	3160	21,8	92
W2512	Welight 24,0W LEDline 1450mm 24V REFIT for 80W T5 HO 3000K	1450mm	3000K	100	10	139	3850	27,6	92

Packaging: 12 pieces/carton, 360 pieces/pallet

- All typical values for Ta=25°C +/- 2°C
- Luminous flux min. value = typ. value +/-15%
- Tolerance mechanical dimensions +/-1mm
- Tolerance electrical data +/-15%
- Tolerance optical data +/-15%
- Tolerance min. value CRI +/-2
- Energy Efficiency class (valid for light source): C/D/F

CONVERTER

Output voltage	24 VDC +10 %
Power LED driver	= sum of typical power of light engines + 10 %
Daisy chaining (in series)	100mA: max. 33 LED modules 80mA: max. 48 LED modules 70mA: max. 49 LED modules 60mA: max. 50 LED modules 50mA: max. 25 LED modules

Selection of the operating device/protective functions

The operating device protects the modules against overvoltage, overcurrent, overload and short circuits.The device must comply with the relevant standards for safe operation and must be also technically approved by Welight. Power supply units must ensure the following protective measures:

- SELV
- Short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against environmental influences

The luminaires must be operated on 24V constant voltage LED drivers.
Operation on a constant current LED driver will result in irreversible damage to the luminaire.
Reverse polarity can damage the luminaire.

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EPREL DATA

Art. No.	Type	Energy Efficiency Class 140mm module	Art. No. light source 140mm	EPREL no. for database 140mm	Energy Efficiency Class 94mm module	Art. No. light source 94mm	EPREL no. for database 94mm
Light color: 4000K							
W2601	Welight 5,8W LEDline 516mm 24V REFIT for 14W T5 HE 4000K	C	59000940	1512068	C	59000952	2044690
W2602	Welight 7,2W LEDline 516mm 24V REFIT for 24W T5 HO 4000K	C	59000941	1512069	D	59000953	1512080
W2603	Welight 5,8W LEDline 562mm 24V REFIT for 18W T8 4000K	C	59000940	1512068	C	59000952	2044690
W2604	Welight 7,2W LEDline 843mm 24V REFIT for 21W T5 HE 4000K	C	59000938	1512066	C	59000951	1512079
W2605	Welight 11,5W LEDline 843mm 24V REFIT for 39W T5 HO 4000K	C	59000941	1512069	D	59000953	1512080
W2606	Welight 11,5W LEDline 1124mm 24V REFIT for 28W T5 HE 4000K	C	59000940	1512068	C	59000952	2044690
W2607	Welight 19,2W LEDline 1124mm 24V REFIT for 54W T5 HO 4000K	D	59000942	1512070	D	59000954	1512081
W2608	Welight 11,5W LEDline 1170mm 24V REFIT for 36W T8 4000K	C	59000940	1512068	C	59000952	2044690
W2609	Welight 12,0W LEDline 1450mm 24V REFIT for 35W T5 HE 4000K	C	59000938	1512066	C	59000951	1512079
W2610	Welight 16,8W LEDline 1450mm 24V REFIT for 49W T5 HO 4000K	C	59001067	1512163	F	59001155	1512248
W2611	Welight 19,2W LEDline 1450mm 24V REFIT for 58W T8 4000K	C	59000941	1512069	D	59000953	1512080
W2612	Welight 24,0W LEDline 1450mm 24V REFIT for 80W T5 HO 4000K	D	59000942	1512070	D	59000954	1512081
Light color: 3000K							
W2501	Welight 5,8W LEDline 516mm 24V REFIT for 14W T5 HE 3000K	D	59000946	1512074	C	59000958	2044691
W2502	Welight 7,7W LEDline 516mm 24V REFIT for 24W T5 HO 3000K	D	59000947	1512075	D	59000959	1512085
W2503	Welight 5,8W LEDline 562mm 24V REFIT for 18W T8 3000K	D	59000946	1512074	C	59000958	2044691
W2504	Welight 7,2W LEDline 843mm 24V REFIT for 21W T5 HE 3000K	D	59000945	1512073	D	59000957	1512084
W2505	Welight 11,5W LEDline 843mm 24V REFIT for 39W T5 HO 3000K	D	59000947	1512075	D	59000959	1512085
W2506	Welight 11,5W LEDline 1124mm 24V REFIT for 28W T5 HE 3000K	D	59000946	1512074	C	59000958	2044691
W2507	Welight 19,2W LEDline 1124mm 24V REFIT for 54W T5 HO 3000K	D	59000948	1512076	D	59000960	1512086
W2508	Welight 11,5W LEDline 1170mm 24V REFIT for 36W T8 3000K	D	59000946	1512074	C	59000958	2044691
W2509	Welight 12,0W LEDline 1450mm 24V REFIT for 35W T5 HE 3000K	D	59000945	1512073	D	59000957	1512084
W2510	Welight 16,8W LEDline 1450mm 24V REFIT for 49W T5 HO 3000K	D	59001057	1512153	F	59001145	1512238
W2511	Welight 19,2W LEDline 1450mm 24V REFIT for 58W T8 3000K	D	59000947	1512075	D	59000959	1512085
W2512	Welight 24,0W LEDline 1450mm 24V REFIT for 80W T5 HO 3000K	D	59000948	1512076	D	59000960	1512086

To access the EPREL page, use the following link (add the „Eprel number for database"): https://eprel.ec.europa.eu/screen/product/lightsources/EPREL number

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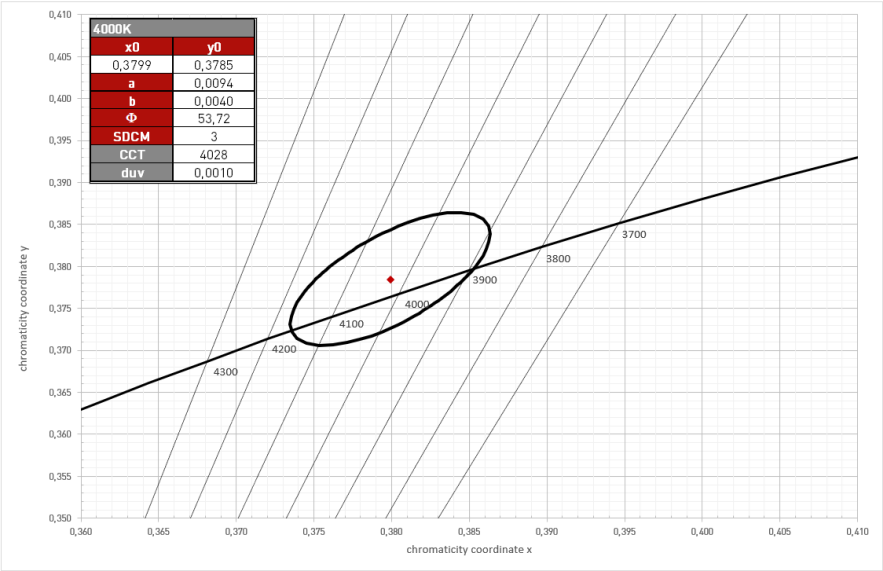
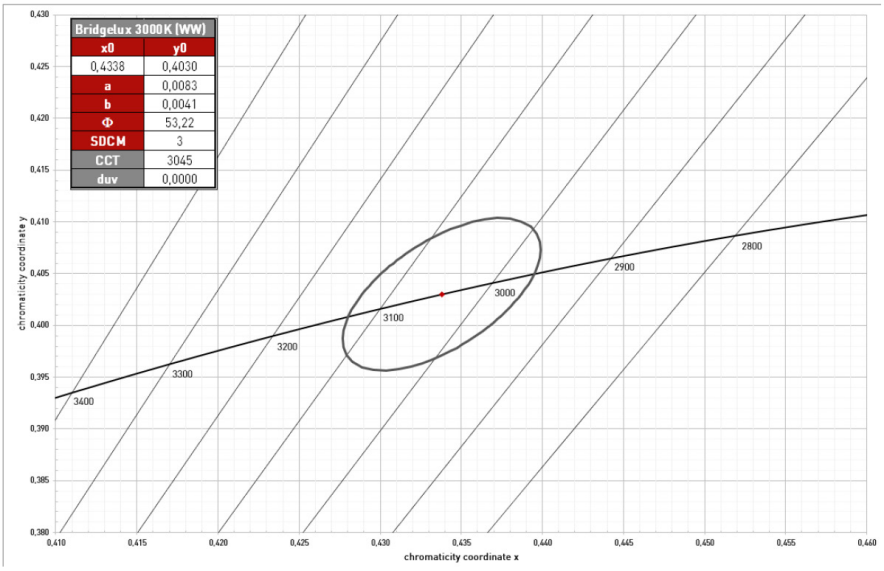
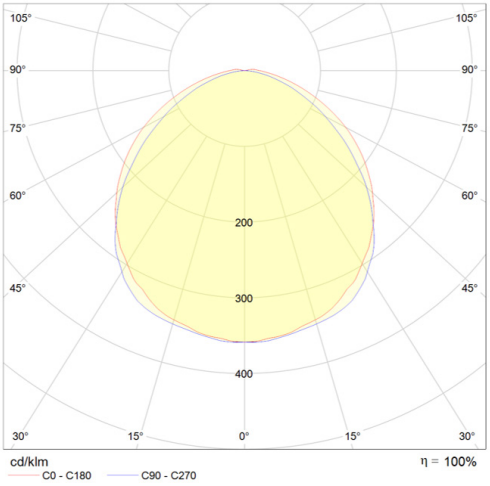
COORDINATES AND TOLERANCES ACCORDING TO CIE 1931 - DATA REFERS TO LED MODULES WITHOUT LENS





OPTICAL PROPERTIES - LUMINAIRE



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LIFETIME

70.000h (L80 B10)

STANDARDS

- EN 60598-1
- EN 60598-2-1
- EN 62031
- EN 62471
- EN 60335-1, EN 60335-2-24, EN 60335-2-89
- Eco Design 2019/2020 (SLR)
- Energy Labelling 2019/2015 (ELR)
- PRP/HACCP (Food Safety)
- RoHS/Reach
- ENEC, UL

THERMAL BEHAVIOUR

Operating temperature (operation, no defects)	ta	-30 ... +30 °C
Storage temperature	ts	-30 ... +60 °C
Temperature cooling profile [12]	tc	-30 ... +60 °C

[1] Values apply to operation at 100% output, natural convection.

[2] If the maximum temperature limits are exceeded, the lifetime of the module will be greatly reduced or the module may be destroyed. The tc point temperature at the profile of the light engine should be measured in the thermally stable state and under operating conditions by means of a temperature sensor or temperature-sensitive sticker in accordance with EN60598-1. The entire profile can be used as the tc point.

Note

- Installation should only be conducted by a licensed electrician.
- Reversing the polarity can damage the product!
- Make sure the converter has been switched off prior to connecting the light engine. If this is not observed, the light engine may be damaged!
- Connection or operation is only permitted when using the specified converters. Higher voltages result in damage to or failure of the light engine.
- The user is responsible for correct selection of illumination intensity. Excessive illumination intensity may lead to greying or colour changes of displayed products.
- Lumitech" accessories must be used.
  Accessories (e.g. cables) from other manufacturers can lead to failures and damage. The use of these parts will void any warranty claim!
- Luminaires must not be installed next to a cooling or heating outlet!

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