

# LINEARlight<sup>®</sup> RIGID FINESSE InGround

Walkable slim LED fixture for linear applications fully customizable: one platform, thousands of configurations



## Features & Benefits

- 24 V super slim modular LED fixture for linear walkable application, suitable for InGround mounting
- High quality and sophisticated optics and lenses: 10°, 30°, 60° symmetric lenses, asymmetric lens for Wall Washing and diffusive options
- Made of aluminum and equipped with an 8mm thick tempered glass, allowed for a static load of 10.000 N
- Tamper proof screws available
- Installations into concrete possible and suitable for wet environments thanks to seaside approved black coat
- Outdoor IP67 and IK 09 rated
- Luminous flux: >2000 lm/m; 1200 m/m; 900 lm/m
- Color uniformity  $\leq 2$  SDCM\*
- Lifetime up to 60.000 h L80B10
- LM80 & LM79 compliant
- Large selection of white light color temperatures and RGB(W) available
- CRI 90 & CRI 80
- Dimmable by INVENTRONICS LED Driver from 0,1% to 100%
- Designed in Italy, made in Italy

## Application areas

Wall Washing, Wall Grazing, Architectural Integration

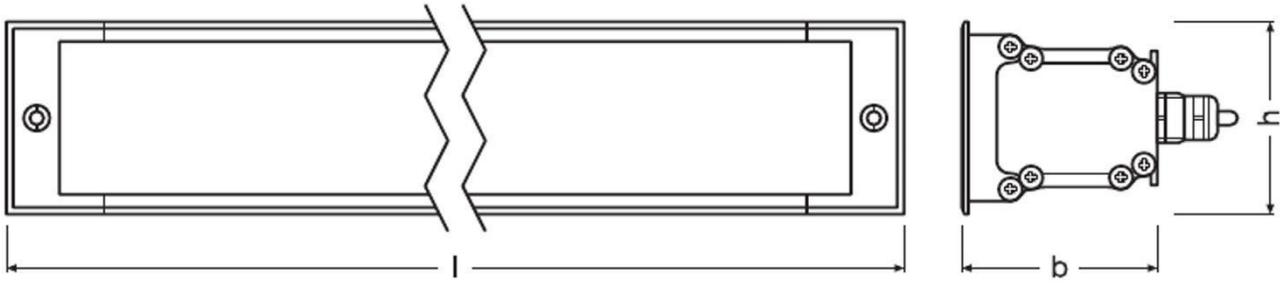
## Standards

CE, ENEC

## Electrical data

Nominal Voltage	24 V (+/- 1V)
Reverse voltage protection up to	25 V
Ambient Temperature range	-30°C... + 50°C
Storage Temperature	-20°C... +85°C
CRI	>90 & >80

## Dimensions



	L [mm]	B [mm]	H [mm]
LR FINESSE In-Ground	676 / 976 / 1276	62	61.5

	L [mm]	Height [mm]	Width [mm]	Side hole diameter [mm]
Case dimensions	672 / 972 / 1272	114	60.5	38

## Max operable length

FINESSE MODEL	CE	ENEC
LR-P-2000 (HIGH FLUX)	≤ 3 m	≤ 1.6 m
LR-P-1200 (MEDIUM FLUX)	≤ 5 m	≤ 3 m
LR-P-900 (LOW FLUX)	≤ 10 m	≤ 4.5 m
LR-P-1500-RGBW	3 m	3 m
LR-P-400-RGB	5 m	5 m

## Power consumption\*

White Version	2000 lm/m (HIGH FLUX)	1200 lm/m (MEDIUM FLUX)	900 lm/m (LOW FLUX)
CRI 90	28.9 W/m	16.3 W/m	10.6 W/m
CRI 80	28.9 W/m	13.4 W/m	9.9 W/m

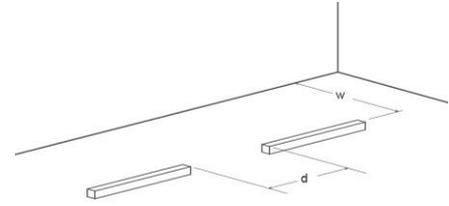
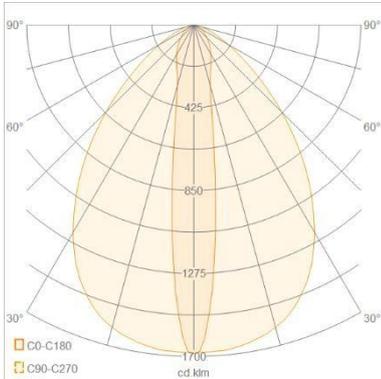
  

RGBW Version	White	Red	Green	Blue	TOTAL
CRI 90	14,4 W/m	5,7 W/m	5,8 W/m	3,9 W/m	29.8W/m
CRI 80	14,4 W/m	5,7 W/m	5,8 W/m	3,9 W/m	29.8W/m
RGB only	-	5,7 W/m	5,8 W/m	3,9 W/m	15.4W/m

\*the Finesse platform keeps power consumption constant to varying the CCT

Photometrics data

10S Optics 10° x 70°;



d [cm]	5	15	30	60
w [cm]	5	10	15	20

Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
924	2400 K	White	---	937	683	---	57	65
927	2700 K	White	2002	937	705	69	57	66
930	3000 K	White	2139	1024	764	74	63	72
935	3500 K	White	2275	1115	833	79	68	78
940	4000 K	White	2275	1115	833	79	68	78
950	5000 K	White	2275	1219	910	79	75	86

Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
824	2400 K	White	1820	855	646	63	64	66
827	2700 K	White	2184	1024	764	76	76	77
830	3000 K	White	2184	1024	764	76	76	77
835	3500 K	White	2366	1092	837	82	82	85
840	4000 K	White	2366	1092	837	82	82	85
850	5000 K	White	2366	1092	837	82	82	85

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
927	2700 K	White	942	65
930	3000 K	White	996	69
935	3500 K	White	1056	73
940	4000 K	White	1056	73

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
827	2700 K	White	1083	75
830	3000 K	White	1083	75
835	3500 K	White	1124	78
840	4000 K	White	1124	78

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
R	622 nm	Red	104	18
G	534 nm	Green	249	43
B	468 nm	Blue	44	11

**Field angle:** 10% flux at 60°  
**Luminous flux with honeycomb:** - 55%



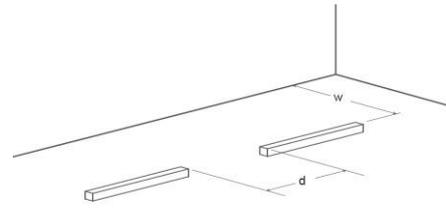
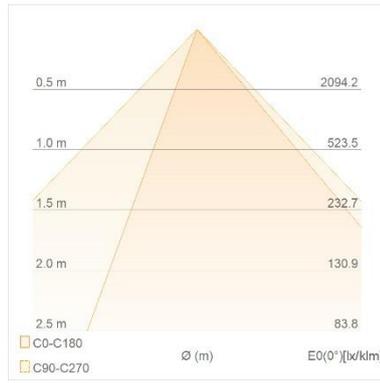
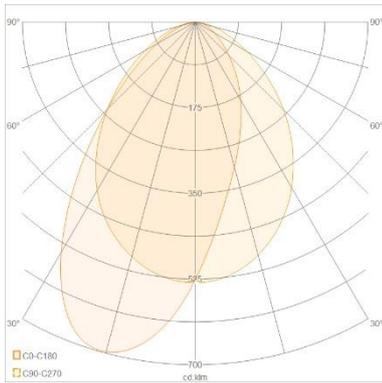
Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
927	2700 K	White	592	65
930	3000 K	White	628	69
935	3500 K	White	664	73
940	4000 K	White	664	73

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
827	2700 K	White	683	47
830	3000 K	White	683	47
835	3500 K	White	710	49
840	4000 K	White	710	49

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
R	622 nm	Red	66	11
G	534 nm	Green	157	27
B	468 nm	Blue	28	7

**Field Angle:** 10% flux at 32°  
 The 10B lens offers the same intensity of light along the vertical axes of the 10S

**WW Asymmetric wall washing optics 50° x 80° tilting 17°**



w	30	40	50	60	70	80	90
d	20	30	40	50	65	80	95

Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
<b>924</b>	2400 K	White	---	914	661	---	56	63
<b>927</b>	2700 K	White	1958	914	683	68	56	64
<b>930</b>	3000 K	White	2088	992	744	72	61	70
<b>935</b>	3500 K	White	2219	1079	809	77	66	77
<b>940</b>	4000 K	White	2219	1079	809	77	66	77
<b>950</b>	5000 K	White	2219	1175	887	77	72	84

Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
<b>824</b>	2400 K	White	1784	827	631	62	62	64
<b>827</b>	2700 K	White	2114	992	744	73	74	75
<b>830</b>	3000 K	White	2114	992	744	73	74	75
<b>835</b>	3500 K	White	2297	1066	813	79	79	82
<b>840</b>	4000 K	White	2297	1066	813	79	79	82
<b>850</b>	5000 K	White	2297	1066	813	79	79	82

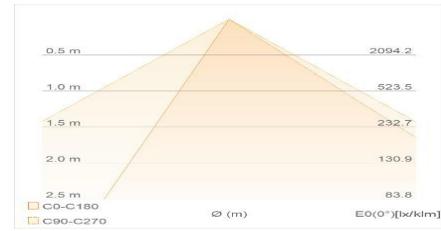
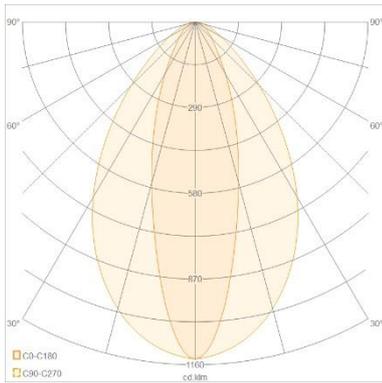
Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
927	2700 K	White	887	62
930	3000 K	White	940	65
935	3500 K	White	996	69
940	4000 K	White	996	69

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
827	2700 K	White	1022	71
830	3000 K	White	1022	71
835	3500 K	White	1061	74
840	4000 K	White	1061	74

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
R	622 nm	Red	97	17
G	534 nm	Green	235	41
B	468 nm	Blue	41	11

**Luminous flux with honeycomb: - 58%**

30° Optics 30° x 70°



w [cm]	10	15	20	25	30
d [cm]	7	11	15	20	25

Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
924	2400 K	White	---	945	684	---	58	65
927	2700 K	White	2025	945	707	70	58	67
930	3000 K	White	2160	1026	770	75	63	73
935	3500 K	White	2295	1116	837	79	68	79
940	4000 K	White	2295	1116	837	79	68	79
950	5000 K	White	2295	1215	918	79	75	86

Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
824	2400 K	White	1845	855	653	64	64	66
827	2700 K	White	2187	1026	770	76	77	77
830	3000 K	White	2187	1026	770	76	77	77
835	3500 K	White	2376	1103	842	82	82	85
840	4000 K	White	2376	1103	842	82	82	85
850	5000 K	White	2376	1103	842	82	82	85

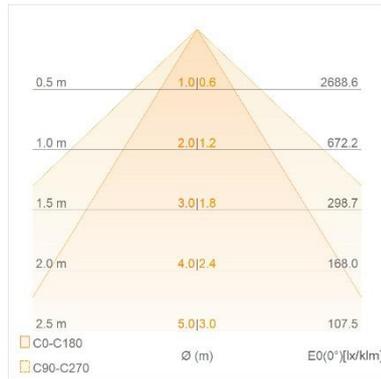
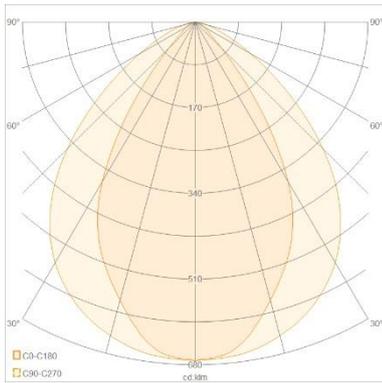
Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
927	2700 K	White	918	64
930	3000 K	White	972	68
935	3500 K	White	1031	72
940	4000 K	White	1031	72

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
827	2700 K	White	1058	73
830	3000 K	White	1058	73
835	3500 K	White	1098	76
840	4000 K	White	1098	76

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
R	622 nm	Red	101	18
G	534 nm	Green	243	42
B	468 nm	Blue	43	11

**Luminous flux with honeycomb: - 57%**

**60° Optics 60° x 90°**



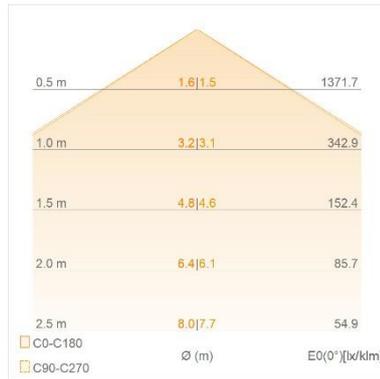
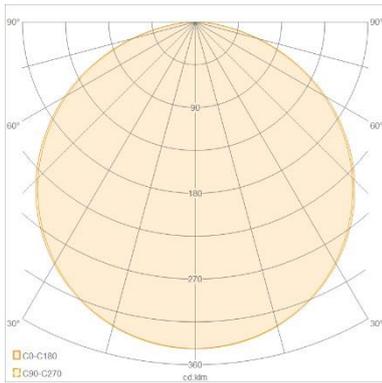
Color Temperature			Luminous Flux per meter			Luminous Efficacy		
			[lm/m]			[lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
924	2400 K	White	---	990	711	---	60	68
927	2700 K	White	2133	990	738	74	60	69
930	3000 K	White	2250	1080	810	78	67	77
935	3500 K	White	2385	1170	873	83	72	83
940	4000 K	White	2385	1170	873	83	72	83
950	5000 K	White	2385	1283	959	83	78	90

Color Temperature			Luminous Flux per meter			Luminous Efficacy		
			[lm/m]			[lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
824	2400 K	White	1890	891	675	66	67	68
827	2700 K	White	2250	1080	810	78	81	82
830	3000 K	White	2250	1080	810	78	81	82
835	3500 K	White	2430	1152	882	84	86	89
840	4000 K	White	2430	1152	882	84	86	89
850	5000 K	White	2430	1152	882	84	86	89

Color Temperature			Luminous Flux per meter			Luminous Efficacy		
RGBW version			[lm/m]			[lm/W]		

Version not available with 60° optic

120D Optics diffuse



Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
924	2400 K	White	---	567	416	---	34	39
927	2700 K	White	1243	567	428	43	34	40
930	3000 K	White	1323	626	466	45	39	44
935	3500 K	White	1394	680	508	48	42	48
940	4000 K	White	1394	680	508	48	42	48
950	5000 K	White	1394	748	559	48	46	53

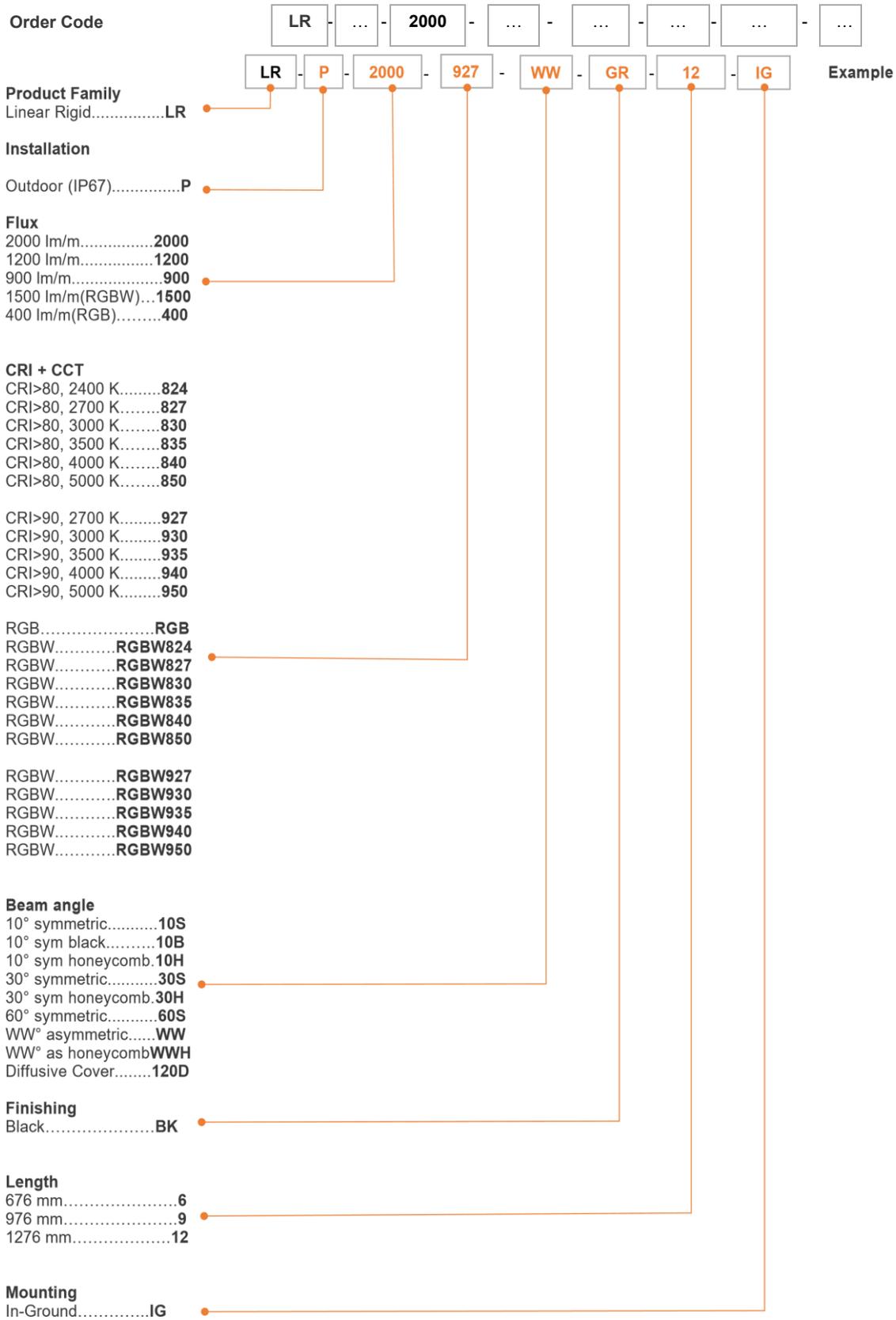
Color Temperature			Luminous Flux per meter [lm/m]			Luminous Efficacy [lm/W]		
White version			High Flux	Medium Flux	Low Flux	High Flux	Medium Flux	Low Flux
824	2400 K	White	1117	521	395	39	39	39
827	2700 K	White	1327	626	466	46	47	47
830	3000 K	White	1327	626	466	46	47	47
835	3500 K	White	1428	680	512	50	50	52
840	4000 K	White	1428	680	512	50	50	52
850	5000 K	White	1428	680	512	50	50	52

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
927	2700 K	White	559	39
930	3000 K	White	592	41
935	3500 K	White	626	43
940	4000 K	White	626	43

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
827	2700 K	White	643	45
830	3000 K	White	643	45
835	3500 K	White	668	46
840	4000 K	White	668	46

Color Temperature			Luminous Flux per meter [lm/m]	Luminous Efficacy [lm/W]
RGBW version				
R	622 nm	Red	61	11
G	534 nm	Green	148	26
B	468 nm	Blue	26	7

## Speaking Code



**Note Well:** the speaking code generator shall be communicated to receive information, quotation or any type of support. Visit the [INVENTRONICS website](#)

**Optional accessories**

Product description	Product code	Package content
CONNECTION TUBE IP68	6937186150066	1 pcs
FINESSE-GROUND SLEEVE_06	6937186150080	1 pcs
FINESSE-GROUND SLEEVE_09	6937186150127	1 pcs
FINESSE-GROUND SLEEVE_12	6937186150103	1 pcs

**Ecodesign regulation information:**

This product is considered to be a “containing product” in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015. Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.

In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer.

In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.

Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer. Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this companies, which accept separate control gear and light sources free of charges. In this way, raw materials are conserved and materials are recycled.

Color Temperature White			Energy eff class of contained light source		
			High Flux	Medium Flux	Low Flux
<b>924</b>	2400 K	White	---	G	G
<b>927</b>	2700 K	White	F	G	F
<b>930</b>	3000 K	White	F	F	F
<b>935</b>	3500 K	White	F	F	F
<b>940</b>	4000 K	White	F	F	F
<b>950</b>	5000 K	White	F	F	E

Color Temperature White			Energy eff class of contained light source		
			High Flux	Medium Flux	Low Flux
<b>824</b>	2400 K	White	F	F	F
<b>827</b>	2700 K	White	F	E	E
<b>830</b>	3000 K	White	F	E	E
<b>835</b>	3500 K	White	E	E	E
<b>840</b>	4000 K	White	E	E	E
<b>850</b>	5000 K	White	E	E	E

Color Temperature RGB(W)		Energy eff class of contained light source	
827	2700 K	White	F
830	3000 K	White	F
835	3500 K	White	F
840	4000 K	White	F
927	2700 K	White	F
930	3000 K	White	F
935	3500 K	White	F
940	4000 K	White	F
RGB	---	RGB	G

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## Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

\*The color uniformity shown is a result of internal theoretical and statistical evaluation under specific conditions; it is intended to provide our customers with an estimation of color uniformity in real applications. Despite LEDs used in INVENTRONICS strips are single BIN 3 SDCM ellipse, their careful combination in a LED strip with proper manufacturing process, results in a mixed light through a diffusive material which is within a 2SDCM ellipse, with a probability greater than 90%.

Due to variability of each single chip and statistical meth, this indication cannot be considered as legally binding. The guaranteed color consistency claim can be found inside the official data sheets of every product

For further information please write to <a href="mailto:support@inventronicsglobal.com">support@inventronicsglobal.com</a> or visit our website <a href="http://design.inventronicsglobal.com/project">design.inventronicsglobal.com/project</a>
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