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LED LINEAR™
A Fagerhult Group Company

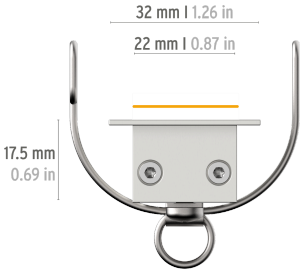
LUNA IP40 LUNA _ _ _ OL IP40

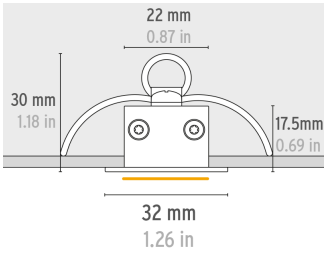
Project name

Company

Phase / Luminaire type for tech. spec. document

Date





Luminaire configuration: Stand-alone luminaire

RGB — Light color / light source: RGB

BS — Cable outlet position: Back Side

LED pitch / density: Low Density

LED pitch / density: High Density

B — Profile color: Black

S — Profile color: Silver (Anodized)

W — Profile color: White (RAL9003)

Power supply position: External PSU

Cable / connector configuration: OO - Open cable one side only

IP40 — Protection class: IP40

24V — Input voltage [V]: 24V DC

ARCHITECTURAL INDOOR INTEGRATION WITH MINIMAL VISUAL PRESENCE.

LUNA IP40 is a slim, recessed indoor linear luminaire designed to integrate cleanly into ceilings and walls with minimal visual presence. With a minimal installation depth, it delivers high performance in a compact form factor. LUNA supports general, accent and grazing lighting across offices, retail, hospitality and residential interiors where discreet integration and flexibility are essential.

CERTIFICATES

Conformité Européenne (CE)

Ecodesign Directive

ETL certified

Protection Class III

WEEE

ELECTRICAL & OUTPUT DATA [1]

Power [W/m]	10	20
Efficiency [lm/W]	30.3	26.4
Max. daisy chain length [m]	5	4
CRI / R9	-/-	-/-
Rf / Rg	-/-	-/-
Ambient temperature [°C] max	45	45
Housing Temperature [°C] max	70	70

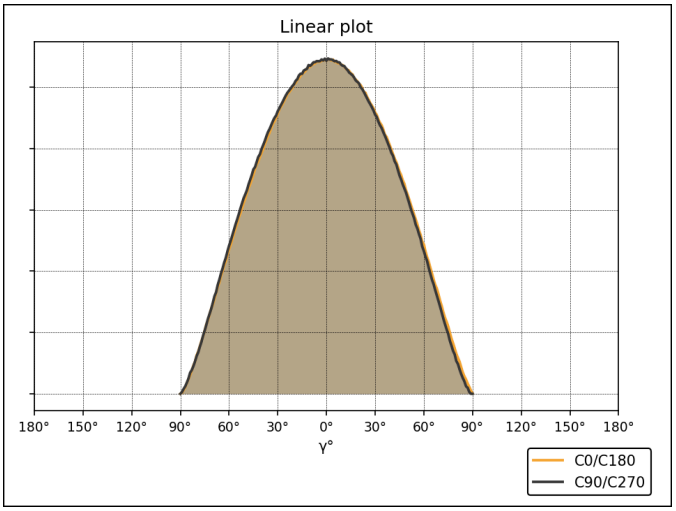
Power [W/m]	10	20
	Luminous flux [lm/m]	
X	300	530

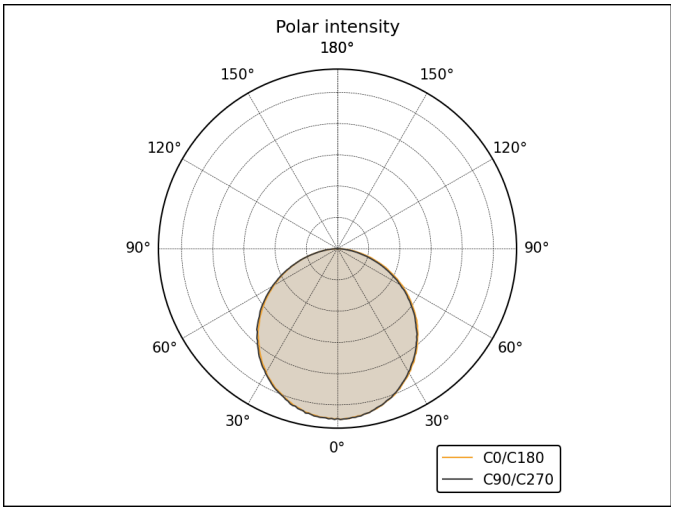
(1): Light engine family: VarioLED Flex RGB HD ; Light distribution: OL - Opal low (sealed or cover) ; Light color / light source: RGB ; Profile color: White (RAL9003) ; Integrated anti-glare: No integrated anti-glare ; Optional glare control accessory: No Accessories

PRODUCT INFORMATION

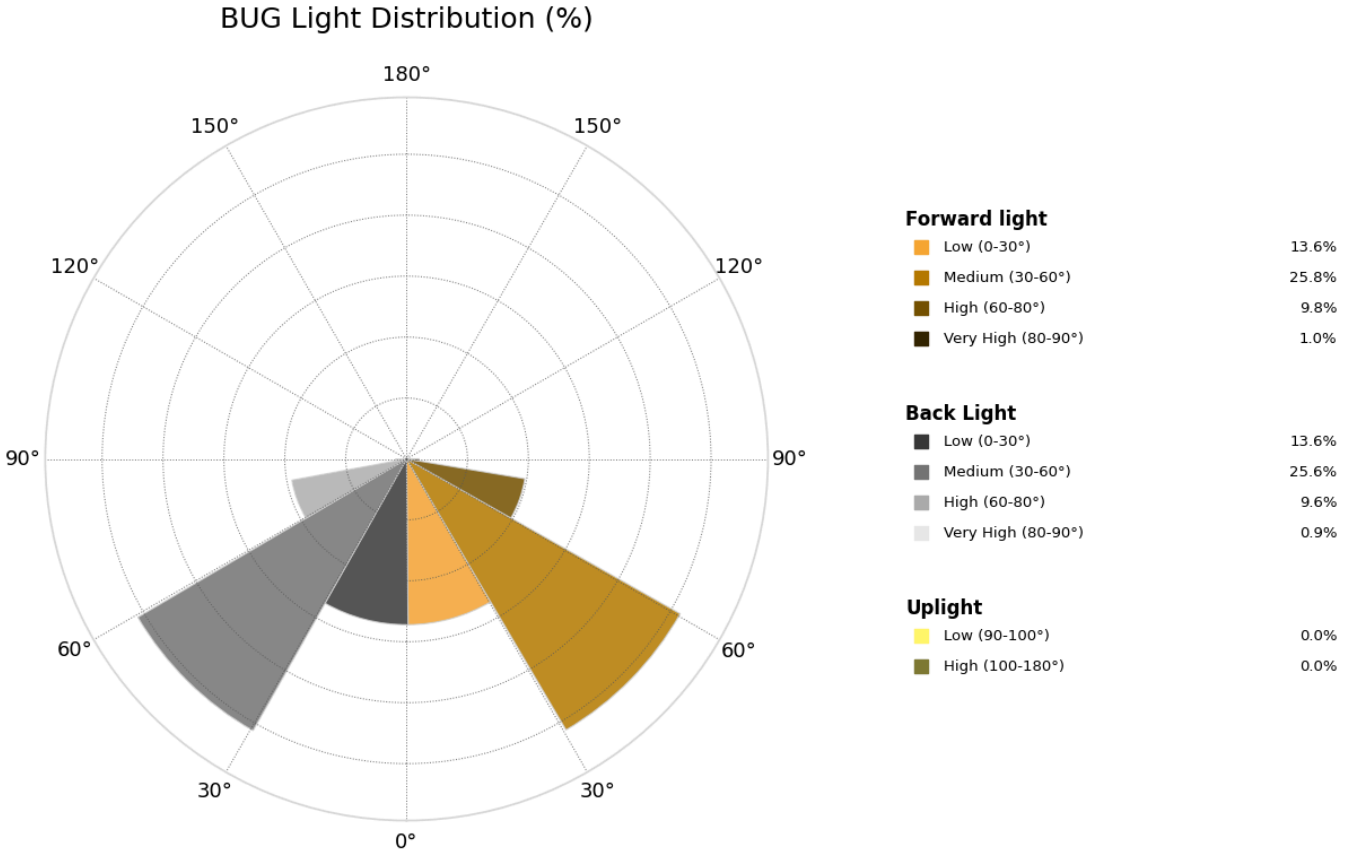
Product family	LUNA IP40	Protection class	IP40
Luminaire type (rigid / flexible)	Rigid luminaire	Luminaire profile size	Standard
Mounting type and accessory	R - Recessed with trim	Light distribution	OL - Opal low (sealed or cover)
Light color / light source	RGB	Color rendering and efficiency	X - Not relevant
Color temperature (ANSI CCT)	Non-static white	Measured color temperature (CCT)	X
Width of fixture incl. mounting accessory [mm]	90	Height of fixture incl. mounting accessory [mm]	75
Lumen maintenance (LED manufacturer specification)	L80/B10	ANSI LED binning	3 SDCM
Cable outlet position	Back Side	Cable / connector configuration	OO - Open cable one side only
Integrated anti-glare	No integrated anti-glare	Optional glare control accessory	No Accessories
Power supply position	External PSU	Control technology	No PSU with No Control Controller
Input voltage [V]	24V DC	Luminaire configuration	Stand-alone luminaire
DarkSky certification	Not DarkSky certified	Case temperature [°C]	TC(min): -25°, TC(max): 70°
Ambient temperature [°C]	TA(min): -25°, TA(max): 45°	Storage temperature [°C]	TS(min): -30°, TS(max): 85°
Lifespan [h]	60,000	fixed luminaire section [mm]	10
Wave length/channel	R: 622 nm, G: 532 nm, B: 466 nm		

PHOTOMETRIC GRAPHS





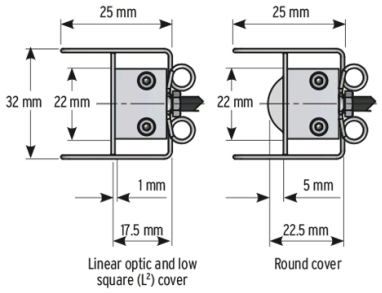
BUG LIGHT DISTRIBUTION

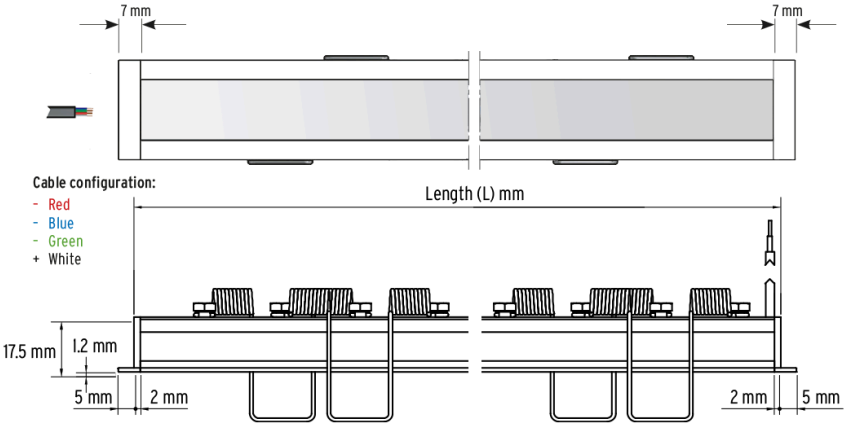


Light engine family: VarioLED Flex RGB HD ; Light distribution: OL - Opal low (sealed or cover) ; Light color / light source: RGB ; Profile color: White (RAL9003) ; Integrated anti-glare: No integrated anti-glare ; Optional glare control accessory: No Accessories

TECHNICAL SPECIFICATIONS

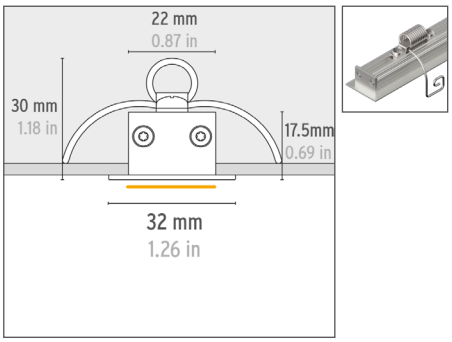
For general tolerances, including length tolerances, please refer to the technical drawing.





MOUNTING ACCESSORIES (SELECTABLE WITH ORDER CODE)

Please note: Mounting accessories are automatically included with the luminaire with the required amount of clips or the correct length of the mounting profile when chosen as part of the order code - see the digits in the order code below.

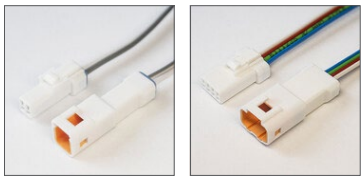
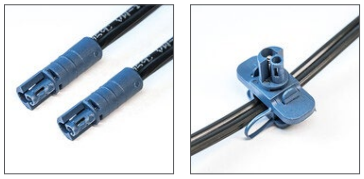
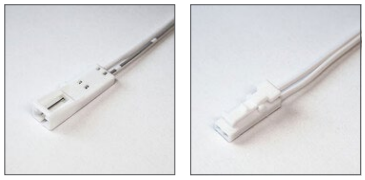


Mounting accessories	Description
RECESSED WITH MOUNTING SPRING No additional accessories are required for this mounting option.	Mounting springs are pre-mounted. Luminaire can be installed directly into false ceiling. Use according to the mounting instruction.

CABLING ACCESSORIES

Cables & Connectors: A complete overview of all extension cables and connectors and additional cabling accessory can be found on the global website: https://www.led-linear.com/products/cables-connectors

Not every product can be extended and used with every cable and connector system. Please contact your local sales team for further information.

PRODUCT FAMILY	CABLE ACCESSORY	INFORMATION	EXAMPLE
VENUS TC Family IP67 AMOR IP67 VARIO LED FLEX IP67 XOOLINE IP40 / IP67 ULTIMA Family IP40 LUNA IP40	VarioConnect IP67 Mini	Single shielded, flat, white cable IP67 connector male / female Different lengths for 2 up to 5 wires 2 wires = 0.34 mm² / 4 wires = 0.25 mm² 5 wires = 0.2 mm²	
VENUS Family IP67 ADONIS IP67* FUSION IP67 XOOLUM IP40 / IP67* XOOLIGHT IP67 VARIOLED IP67	VarioConnect IP67	Double shielded, oval, black, IP68 cable IP67 connector male / female w/o nut Different lengths for 2 up to 4 wires 2 wires = 0.34 mm² / 4 wires = 0.25 mm²	
XOOCOVE IP40	VarioConnect IP20 Cove	IP20 connector system with 2 x 0.75mm²	
OCEANOS IP67	VarioCon Oceanos	IP67 connector system with 4 x 0.75mm² Stainless Steel Newton-Meter Clutch	
VARIO CABLE	Most products can be ordered with a open lead cable. Use the configurator „cable and connector configuration" to choose between „00" (open one side) and „0T"(open two side) cables, if possible.		
Assembled Solutions (North America only)	VarioConnect IP20 Mini	Single shielded, flate, white cable IP20 connector male / female Different lengths for 2 wires 2 wires = 0.34 mm²	

*RGBW cable is always a flat ribbon IP67 Mini cable and connector system.

POWER SUPPLY UNIT (PSU) & CONTROLS

Recommended PSU: A complete overview of all PSUs and controls with different power ratings can be found on the website:

GLOBAL https://www.led-linear.com/products/drivers-controls
USA https://www.ledlinearusa.com/products/drivers-controllers

Recommended controls: A complete overview of all controls can be found on the website:

GLOBAL https://www.led-linear.com/products/smart-lighting
USA https://www.ledlinearusa.com/products/drivers-controllers

Smart Lighting accessory: A complete overview of all smart lighting accessories and controls can be found on the website:

GLOBAL https://www.led-linear.com/products/smart-lighting

VOLTAGE DROP INFORMATION FOR THE FEED-IN LINE (EXTERNAL PSU / CONTROL TO FIXTURE)

Cable cross section	mm²						
	0.25	0.34	0.5	0.75	1.0	1.5	2.5
Total wattage of light line* [W]	MAX. CABLE LENGTH BETWEEN PSU / CONTROL UNIT AND THE LUMINAIRE						
	m						
0 - 5	29	39	58	87	116	174	291
0 - 10	14	19	29	43	58	87	145
10 - 15	9.7	13	19	29	38	58	97
15 - 20	7.2	9.9	14	21	29	43	72
20 - 25	5.8	7.9	11	17	23	34	58
25 - 30	4.8	6.6	9.7	14	19	29	48
30 - 35	4.1	5.6	8.3	12	16	24	41
35 - 40	3.6	4.9	7.2	10	14	21	36
40 - 45	3.2	4.4	6.4	9.7	12	19	32
45 - 50	2.9	3.9	5.8	8.7	11	17	29
50 - 60	2.4	3.3	4.8	7.2	9.7	14	24
60 - 70	2.0	2.8	4.1	6.2	8.3	12	20
70 - 80	1.8	2.4	3.6	5.4	7.2	10	18
80 - 90	1.6	2.2	3.2	4.8	6.4	9.7	16
90 - 100	1.4	1.9	2.9	4.3	5.8	8.7	14
100 - 110	1.3	1.8	2.6	3.9	5.2	7.9	13
110 - 120	1.2	1.6	2.4	3.6	4.8	7.2	12.
120 - 130	1.1	1.5	2.2	3.3	4.4	6.7	11
130 - 140	1.0	1.4	2.0	3.1	4.1	6.2	10
140 - 150	0.9	1.3	1.9	2.9	3.8	5.8	9.7
150 - 160	0.9	1.2	1.8	2.7	3.6	5.4	9.1
170 - 180	0.8	1.1	1.6	2.4	3.2	4.8	8.0
180 - 190	0.7	1.0	1.5	2.3	3.0	4.6	7.6
190 - 200	0.7	0.9	1.4	2.1	2.9	4.3	7.2

Cable cross section	AWG						
	24	22	21	19	18	16	14
Total wattage of light line* [W]	MAX. CABLE LENGTH BETWEEN PSU / CONTROL UNIT AND THE LUMINAIRE						
	ft						
0 - 5	95	130	191	286	382	573	956
0 - 10	47	65	95	143	191	286	478
10 - 15	31	43	63	95	127	191	318
15 - 20	23	32	47	71	95	143	239
20 - 25	19	26	38	57	76	114	191
25 - 30	15	21	31	47	63	95	159
30 - 35	13	18	27	40	54	81	136
35 - 40	11	16	23	35	47	71	119
40 - 45	10	14	21	31	42	63	106
45 - 50	9.5	13	19	28	38	57	95
50 - 60	7.9	10	15	23	31	47	79
60 - 70	6.8	9.2	13	20	27	40	68
70 - 80	5.9	8.1	11	17	23	35	59
80 - 90	5.3	7.2	10	15	21	31	53
90 - 100	4.7	6.5	9.5	14	19	28	47
100 - 110	4.3	5.9	8.6	13	17	26	43
110 - 120	3.9	5.4	7.9	11.9	15	23	39
120 - 130	3.6	5.0	7.3	11	14	22	36
130 - 140	3.4	4.6	6.8	10	13	20	34
140 - 150	3.1	4.3	6.3	9.5	12	19	31
150 - 160	2.9	4.0	5.9	8.9	11	17	29
170 - 180	2.6	3.6	5.3	7.9	10.6	15	26
180 - 190	2.5	3.4	5.0	7.5	10	15	25
190 - 200	2.3	3.2	4.7	7.1	9.5	14	23

*** Multiply the number of lights within the light line by the wattage per m or ft to determine the total power of the light line.**

Please note, these cables are not supplied by the factory. For table calculation, the underscored power level is used.
Calculation refers to the cable configuration on site for static white applications.
For tunable white, RGB, RGBW or other multichannel luminaires, the individual wattage per channel must be considered.
This might differ due the control type used.
The information listed in the table only refers to the conductor-based voltage drop of max. 0.85V at 24V DC input voltage.

Regarding the electromagnetic combability (EMC) the maximum cable length is defined by the power supply manufacturer.
A cable length between power supply and planned product longer than indicated by the datasheet of the power supply is possible. However the electromagnetic combability can then be influenced by the conditions of the installation site. There is no data on electromagnetic compatibility for longer cable lengths, which might lead to the necessity of an evaluation of the electromagnetic compatibility by a third party.
Datasheets and mounting instructions of the components in combination with the planned product must be carefully read and followed.