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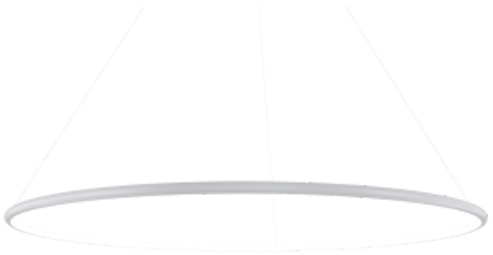
LED LINEAR™
A Fagerhult Group Company

LYRA ECLIPSE IP40

LYRA ECLIPSE HD15 _ 1164 _ OR _ IP40



Project name

Company

Phase / Luminaire type for tech. spec. document

Date

Luminaire configuration: Stand-alone luminaire

Light color / light source: Static White

Color rendering and efficiency: HE - CRI > 80, high efficacy

LED pitch / density: High Density

Profile color: Black

Profile color: Silver (Anodized)

Power supply position: Internal PSU

Protection class: IP40

Input voltage [V]: 24V DC

REFINED CIRCULAR DESIGN CREATING A PRECISE RING OF LIGHT.

LYRA ECLIPSE is defined by a continuous circular light geometry. A slim 20 mm profile combined with a perfectly uniform opal optic creates a visually precise and homogeneous ring of light, available in two diameters of 806 mm and 1,164 mm. Reduced to its essential form, LYRA ECLIPSE serves as a restrained yet expressive architectural element for visually focused interior spaces.

CERTIFICATES

Conformité Européenne (CE)

Ecodesign Directive

ETL certified

Protection Class II

WEEE

ELECTRICAL & OUTPUT DATA [1]

Power [W/m]	**15**
Efficiency [lm/W]	139.5
Max. daisy chain length [m]	4
CRI / R9	84/17
Rf / Rg	83/97
Ambient temperature [°C] max	45
Housing Temperature [°C] max	70

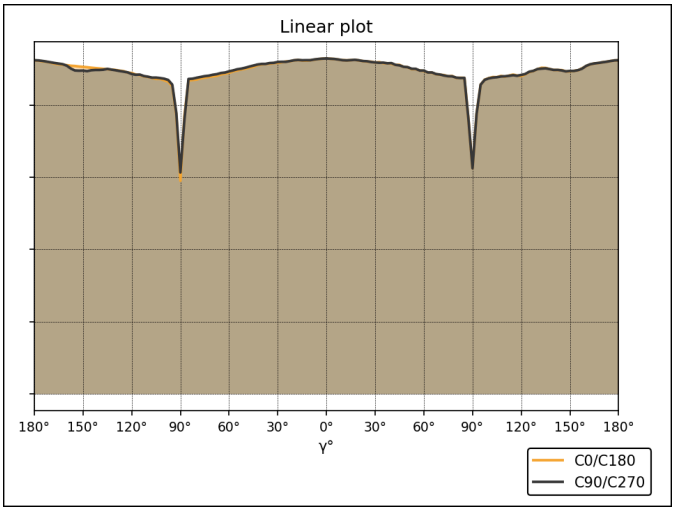
Power [W/m]	15
	Luminous flux [lm/m]
W820	1350
W822	1480
W825	1580
W827	1920
W830	1950
W835	2010
W840	2050
W850	2090

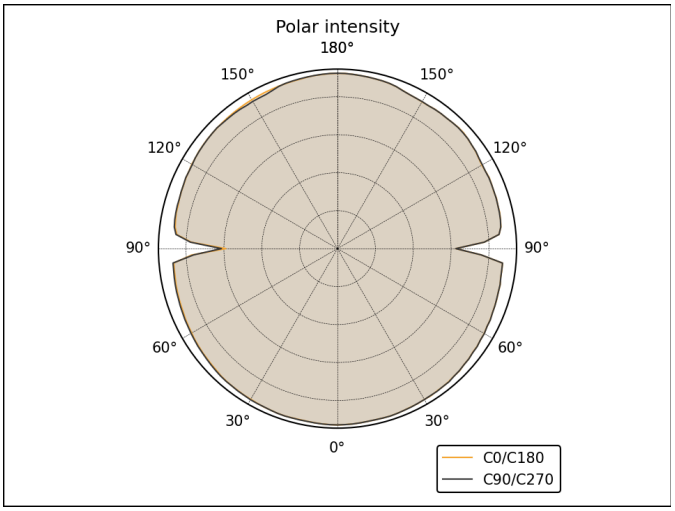
(1): Light engine family: VarioLED Flex HYDRA HD HE ; Light distribution: 1164 - Circle diameter - 1164 mm ; Light color / light source: Static White ; Profile color: Silver (Anodized) ; Integrated anti-glare: No integrated anti-glare ; Optional glare control accessory: No Accessories

PRODUCT INFORMATION

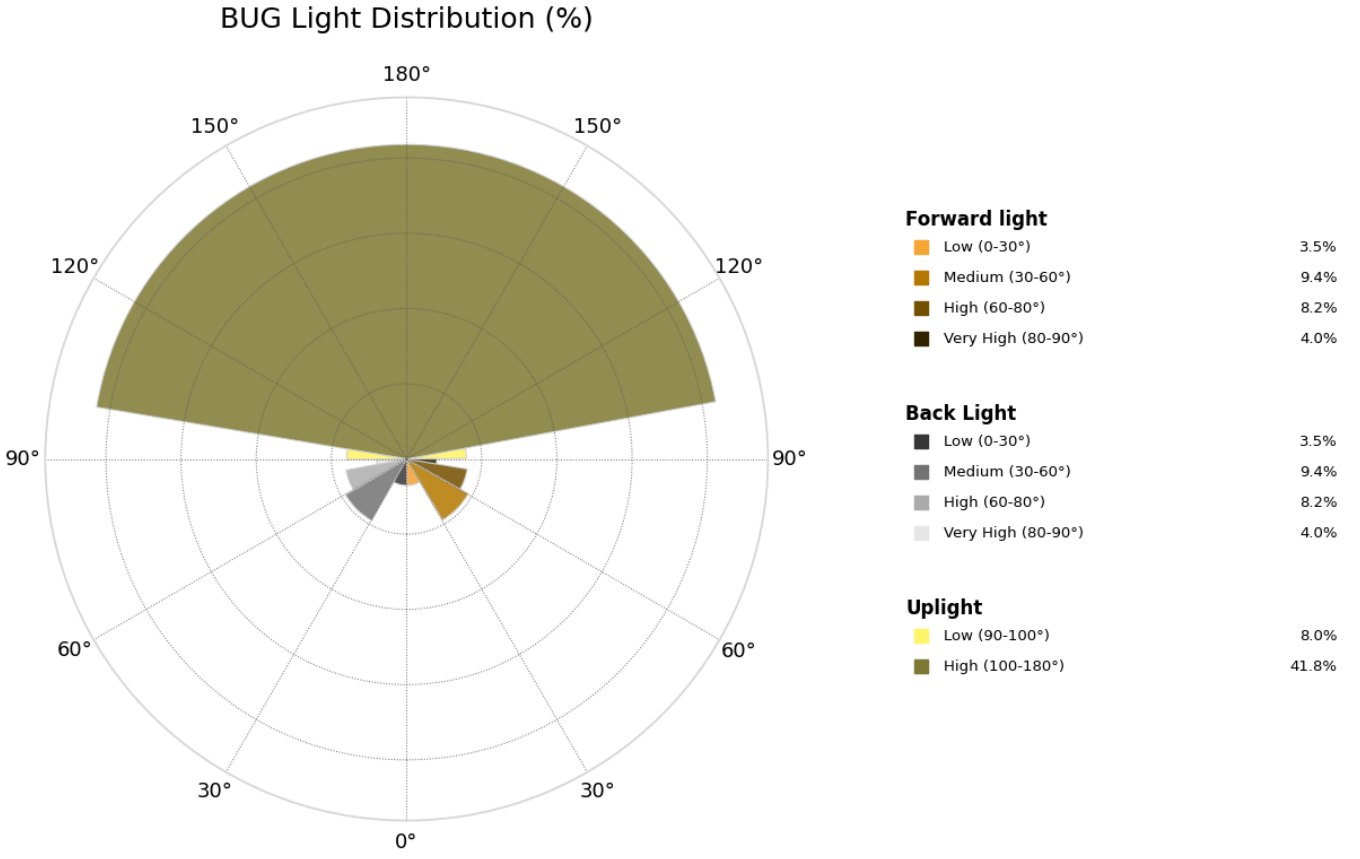
Product family	LYRA ECLIPSE IP40	**Protection class**	IP40
Luminaire type (rigid / flexible)	Rigid luminaire	**Luminaire profile size**	Standard
Light distribution	1164 - Circle diameter - 1164 mm	**Light color / light source**	Static White
Color rendering and efficiency	HE - CRI > 80, high efficacy	**Length [mm]**	1,823
Width of fixture incl. mounting accessory [mm]	1,200	**Light engine family**	VarioLED Flex HYDRA HD HE
Lumen maintenance (LED manufacturer specification)	L80/B10	**LED pitch / density**	High Density
ANSI LED binning	3 SDCM	**Cable outlet position**	X - Not relevant
Assembly breakdown	1 piece (pc) 1823 mm	**Cable / connector configuration**	X - Not relevant
Integrated anti-glare	No integrated anti-glare	**Optional glare control accessory**	No Accessories
Power supply position	Internal PSU	**Control technology**	Internal supply with On/Off
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
LED step length [mm]	62.5		

PHOTOMETRIC GRAPHS





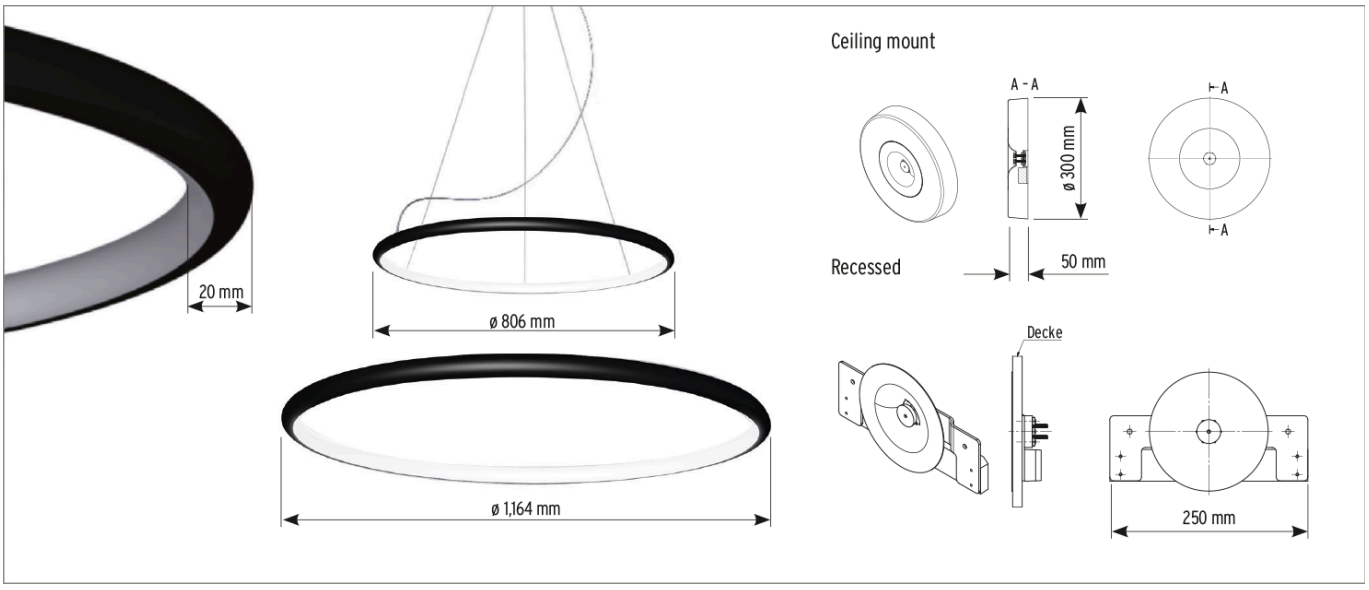
BUG LIGHT DISTRIBUTION



Light engine family: VarioLED Flex HYDRA HD HE ; Light distribution: 1164 - Circle diameter - 1164 mm ; Light color / light source: Static White ; Profile color: Silver (Anodized) ; Integrated anti-glare: No integrated anti-glare ; Optional glare control accessory: No Accessories

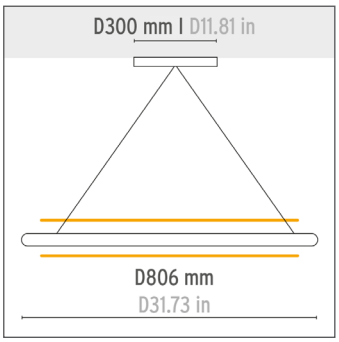
TECHNICAL SPECIFICATIONS

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

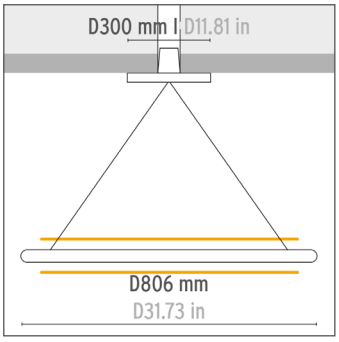
SURFACE MOUNTING
Digits in order code: C

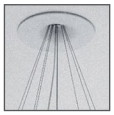
Description

Pre-mounted canopy for ceiling installation.
Pendant set included.

Max. pendant height approx. 2 m / 6.6 ft.

Use according to the mounting instruction.





RECESSED MOUNTING
Digits in order code: R

Pre-mounted canopy for recessed installation.
Pendant set included.

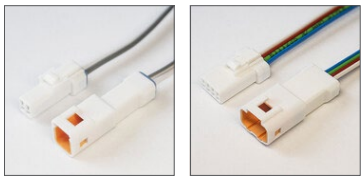
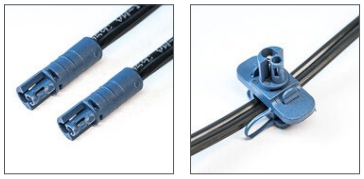
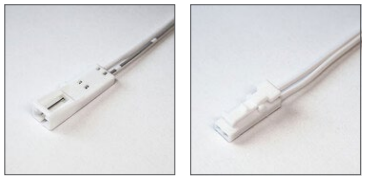
Max. pendant height approx. 2 m / 6.6 ft.

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:

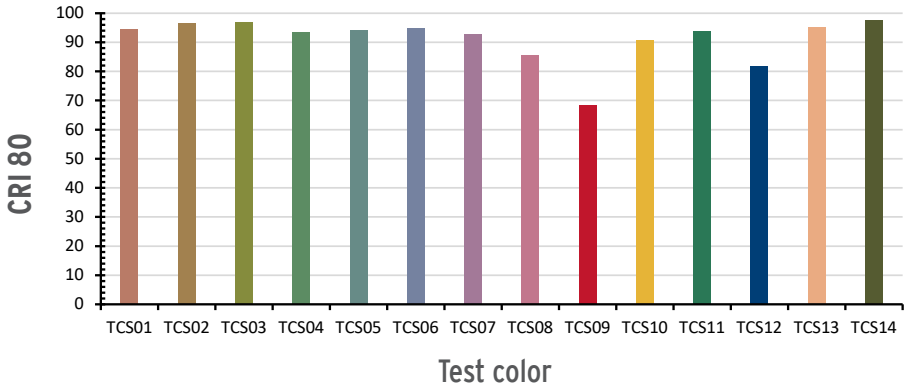
GLOBAL https://www.led-linear.com/products/smart-lighting
USA https://www.ledlinearusa.com/products/drivers-controllers

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

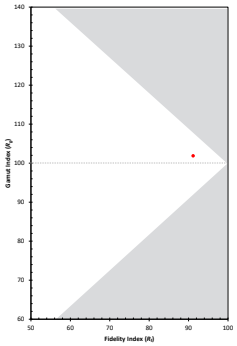
GLOBAL https://www.led-linear.com/products/smart-lighting

Example for „HYDRA HD“ at 3.000K

CRI 80

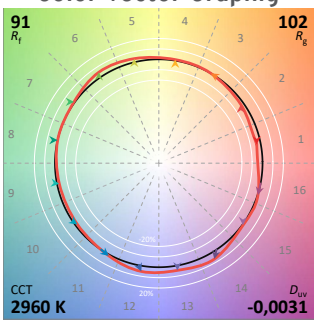


Gamut Index vs. Fidelity Index



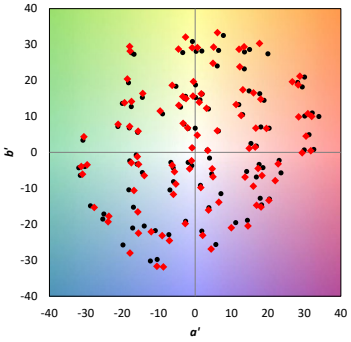
TM-30-18

Color Vector Graphig

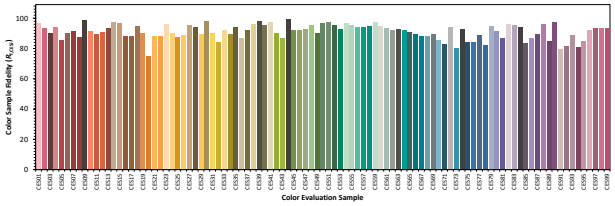


Reference Illuminant
Test Source

Shift in Hue-Chroma Plane

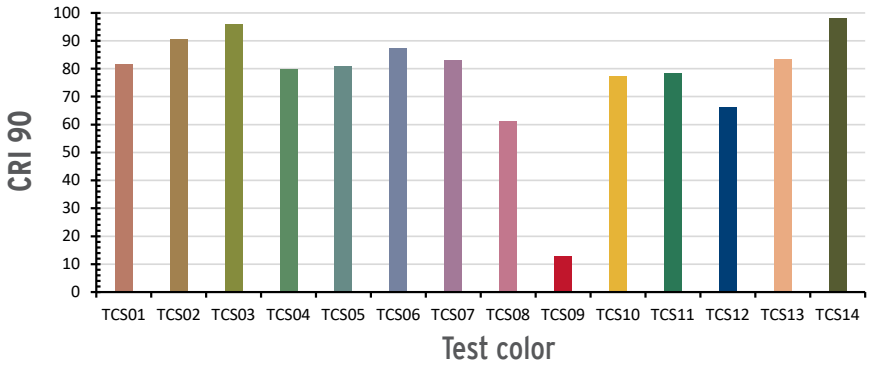


Reference Illuminant
Test Source

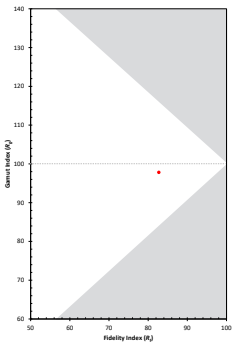


The Fidelity Index chart shows the color fidelity index for each of the 99 reference colors. The reference colors are arranged under the 5000 K reference source, which was also used to determine the color of each bar. The colors are approximate and depend on the correct monitor calibration. Some colors may be outside the color gamut of the monitor used and will not be displayed accurately.

CRI 90

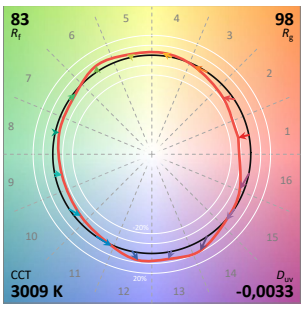


Gamut Index vs. Fidelity Index



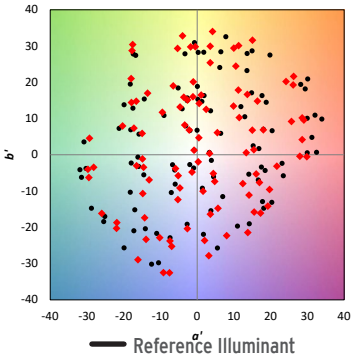
TM-30-18

Color Vector Graphig

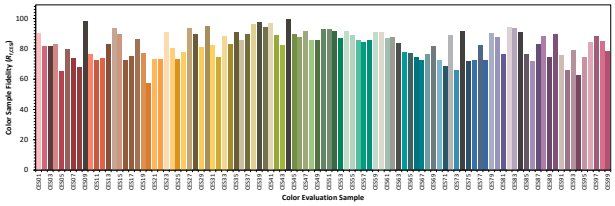


Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source



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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.