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LED LINEAR™
A Fagerhult Group Company

ADONIS IP67

ADONIS TW ___ _ _ _ ____ _ IP67

Project name

Company

Phase / Luminaire type for tech. spec. document

Date

	Luminaire configuration: S - Stand-alone luminaire	B	Luminaire configuration: B - beginning of row	M	Luminaire configuration: M - cont. row middle	E	Luminaire configuration: E - end of row	B	Color of integrated glare control: BL - Encapsulated louver black	Tunable White	Light color / light source: Tunable White (TW)
BS	Cable outlet position: BS - Back Side		Color rendering and efficiency: HE - CRI > 80, high efficacy		Color rendering and efficiency: HC - CRI > 90, standard efficacy		LED pitch / density: High Density	B	Profile color: B - Black	G	Profile color: G - Grey (RAL9022)
W	Profile color: W - White (RAL9003)		Power supply position: E - External PSU		Cable / connector configuration: MO - Male connector one side		Cable / connector configuration: DC - Daisy chain		Cable / connector configuration: OO - Open cable one side only		Cable / connector configuration: OT - Open cable both sides
IP67	Protection class: IP67	24V	Input voltage [V]: 24V DC								

CERTIFICATES

Conformité Européenne (CE)

Ecodesign Directive

Environmental Product Declaration (EPD)

ETL certified

IECEE CB Scheme

Protection Class III

WEEE

- IPx9 testing according to ISO 60598-1:2020 by Intertek
- Protection test up to IK10 according to DIN EN 50102:1995 by Intertek
- Static load testing up to 10 kN according to EN 60598-2-13:2006 by Intertek

ELECTRICAL & OUTPUT DATA [1]

Power [W/m]	12	24	36
Efficiency [lm/W]	107.5	109.9	110.1
Max. daisy chain length [m]	5	4	2
CRI / R9	88/39	88/39	88/39
Rf / Rg	85/98	85/98	85/98
Ambient temperature [°C] max	50	40	30
Housing Temperature [°C] max	75	75	75

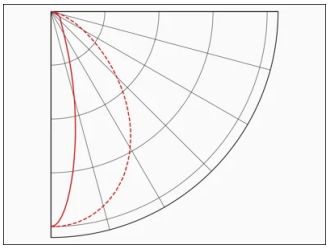
Power [W/m]	12	24	36
		Luminous flux [lm/m]	
1830	1180	2420	3300
2240	1260	2700	3700
2765	1310	2820	3920

(1): Light engine family: HYDRA HE TW HE ; Light distribution: 10X - 10° - linear optics ; Light color / light source: Tunable White (TW) ; Profile color: B - Black ; Color of integrated glare control: X - No integrated anti-glare ; Optional glare control accessory: No Accessories

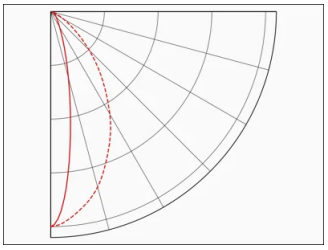
PRODUCT INFORMATION

Product family	ADONIS IP67	**Protection class**	IP67
Luminaire type (rigid / flexible)	Rigid luminaire	**Luminaire profile size**	Standard
Light color / light source	Tunable White (TW)	**Lumen maintenance (LED manufacturer specification)**	L80/B10
LED pitch / density	High Density	**ANSI LED binning**	3 SDCM
Cable outlet position	BS - Back Side	**Optional glare control accessory**	No Accessories
Power supply position	E - External PSU	**Control technology**	XX - No PSU with No Control Controller
Input voltage [V]	24V DC	**Case temperature [°C]**	TC(min): -25°, TC(max): 75°
Storage temperature [°C]	TS(min): -30°, TS(max): 85°	**Lifespan [h]**	60,000
fixed luminaire section [mm]	14.00	**LED step length [mm]**	62.50

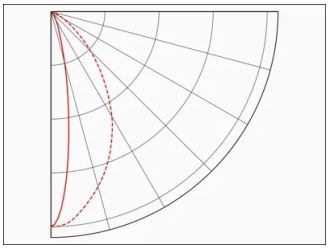
AVAILABLE OPTICS



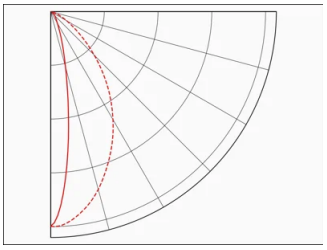
10X - 10° - linear optics



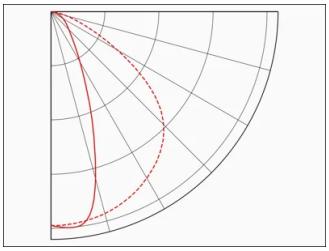
10A - 10° - linear optics with longitudinal louver



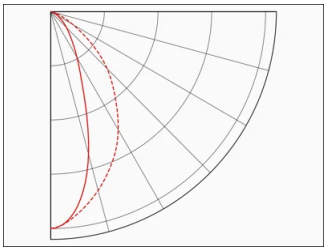
10B - 10° - linear optics with longitudinal and transversal louver



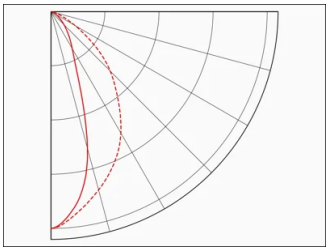
10C - 10° - linear optics with honeycomb louver



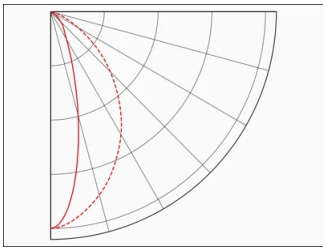
30X - 30° - linear optics



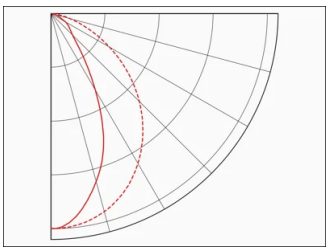
30A - 30° - linear optics with longitudinal louver



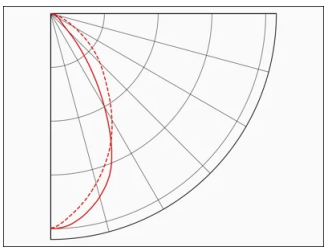
30B - 30° - linear optics with longitudinal and transversal louver



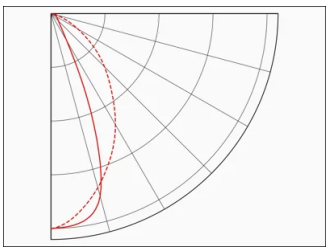
30C - 30° - linear optics with honeycomb louver



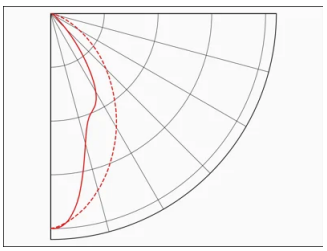
60X - 60° - linear optics



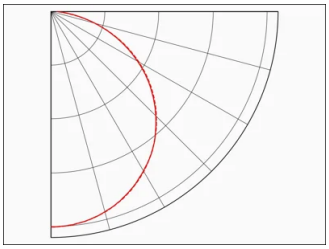
60A - 60° - linear optics with longitudinal louver



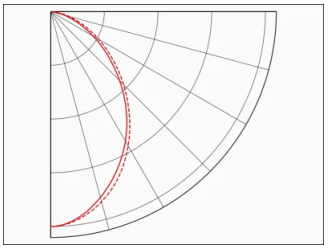
60B - 60° - linear optics with longitudinal and transversal louver



60C - 60° - linear optics with honeycomb louver



OLX - Opal low (sealed or cover)



SDC - Soft diffuse with honeycomb louver

AVAILABLE PROFILE COLORS

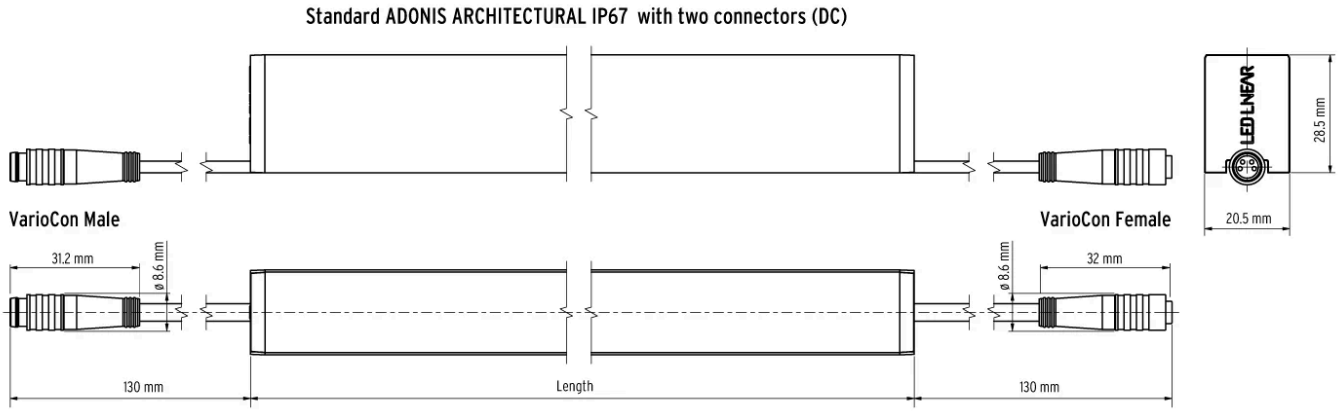
B - Black

G - Grey (RAL9022)

W - White (RAL9003)

TECHNICAL SPECIFICATIONS

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



For cable / connector configuration options OT and OO the existing connector(s) are replaced with open-ended cable(s) of 2 m length.

1 ADONIS IP67 WITH HYDRA HC TW HC

HYDRA TW HC is a high color rendering tunable white LED strip offering CRI 90+ across a wide 2,700 K to 6,500 K tuning range, making it ideal for premium human-centric lighting applications that require exceptional color quality and daylight simulation. Featuring OneBinOnly consistency, active current regulation, Reel-to-Reel production, and Tj Away® thermal management, it combines outstanding color stability, flicker-free dimming, and a lifetime of >60,000 hours (L80/B10).

Electrical & Output Data

Power [W/m]	**12**	**24**	**36**
Efficiency [lm/W]	97.3	101	92.2
Max. daisy chain length [m]	5	4	2
CRI / R9	95/92	95/92	95/92
Rf / Rg	90/100	90/100	90/100
Ambient temperature [°C] max	50	40	30
Housing Temperature [°C] max	75	75	75

Power [W/m]	**12**	**24**	**36**
		Luminous flux [lm/m]	
2765	1170	2420	3320

Light engine family: HYDRA HC TW HC ; Light distribution: 10X - 10° - linear optics ; Light color / light source: Tunable White (TW) ; Profile color: B - Black ; Color of integrated glare control: X - No integrated anti-glare ; Optional glare control accessory: No Accessories

Order code structure

ADONIS TW _____ IP67

Light color / light source	Class	Power [W/m]	Color temperature (ANSI CCT)	Profile color	Light distribution	Cable / connector configuration	Luminaire configuration	Mounting type and accessory	Length [mm]	Protection class
Tunable White (TW)	High CRI	12	2500K - 5700K	B - Black	10X - 10° - linear optics	MO - Male connector one side	S - Stand-alone luminaire	IF - Inground frame	139	IP67
		24	2500K - 6500K	G - Grey (RAL9022)	10A - 10° - linear optics with longitudinal louver	DC - Daisy chain	B - beginning of row	ML - Mounting lock - vandal-proof clip	202	
		36	2700K - 6500K	W - White (RAL9003)	10B - 10° - linear optics with longitudinal and transversal louver	OO - Open cable one side only	M - cont. row middle	SH - Surface horizontal	264	
					10C - 10° - linear optics with honeycomb louver	OT - Open cable both sides	E - end of row	SV - Surface Vertical	...	
					30X - 30° - linear optics			A0 - Adjustable Arm L40	3,889	
					30A - 30° - linear optics with longitudinal louver			A1 - Adjustable Arm L100	3,952	
					30B - 30° - linear optics with longitudinal and transversal louver			A2 - Adjustable Arm L200	4,014	
					30C - 30° - linear optics with honeycomb louver			A3 - Adjustable Arm L300		
					60X - 60° - linear optics			SA - Surface adjustable		
					60A - 60° - linear optics with longitudinal louver			X - No supplied mounting accessory		
					60B - 60° - linear optics with longitudinal and transversal louver					
					60C - 60° - linear optics with honeycomb louver					
					OLX - Opal low (sealed or cover)					
					SDC - Soft diffuse with honeycomb louver					

NOTE: The order code table shows all available options for each product. However some combinations are not possible, due to product design. Please use our online configurator to specify your final product order code.

2 ADONIS IP67 WITH HYDRA HE TW HE

HYDRA TW HE is a high-efficiency tunable white LED strip offering a wide CCT ranges from 1,800 K to 6,500 K and hogh efficacys, making it ideal for energy-efficient dynamic lighting and human-centric applications. With OneBinOnly color consistency, active current regulation, Reel-to-Reel production, and >60,000 h (L80/B10) lifetime, it delivers reliable, flicker-free performance and uniform light quality across the entire installation.

Electrical & Output Data

Power [W/m]	12	24	36
Efficiency [lm/W]	107.5	109.9	110.1
Max. daisy chain length [m]	5	4	2
CRI / R9	88/39	88/39	88/39
Rf / Rg	85/98	85/98	85/98
Ambient temperature [°C] max	50	40	30
Housing Temperature [°C] max	75	75	75

Power [W/m]	12	24	36
		Luminous flux [lm/m]	
1830	1180	2420	3300
2240	1260	2700	3700
2765	1310	2820	3920

Light engine family: HYDRA HE TW HE ; Light distribution: 10X - 10° - linear optics ; Light color / light source: Tunable White (TW) ; Profile color: B - Black ; Color of integrated glare control: X - No integrated anti-glare ; Optional glare control accessory: No Accessories

Order code structure

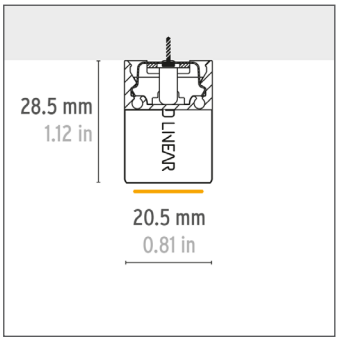
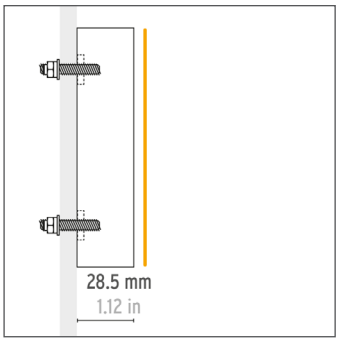
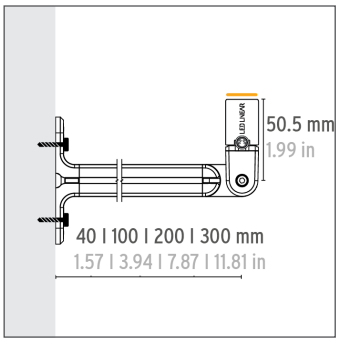
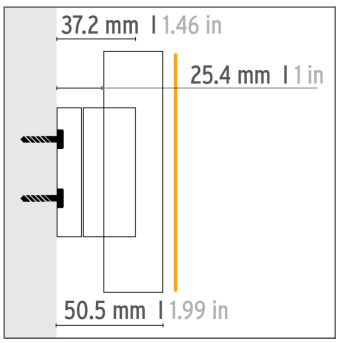
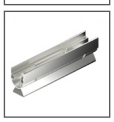
ADONIS TW _____ IP67

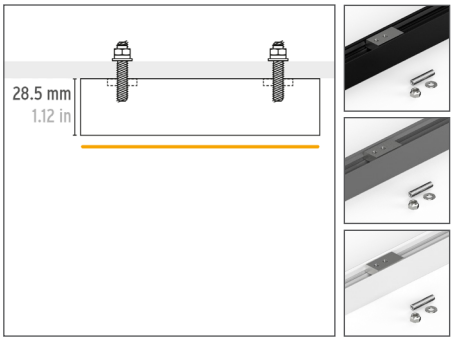
Light color / light source	Class	Power [W/m]	Color temperature (ANSI CCT)	Profile color	Light distribution	Cable / connector configuration	Luminaire configuration	Mounting type and accessory	Length [mm]	Protection class
Tunable White (TW)	High Efficiency	12	1800K - 3000K	B - Black	10X - 10° - linear optics	MO - Male connector one side	S - Stand-alone luminaire	IF - Inground frame	139	IP67
		24	2000K - 4000K	G - Grey (RAL9022)	10A - 10° - linear optics with longitudinal louver	DC - Daisy chain	B - beginning of row	ML - Mounting lock - vandal-proof clip	202	
		36	2200K - 4000K	W - White (RAL9003)	10B - 10° - linear optics with longitudinal and transversal louver	OO - Open cable one side only	M - cont. row middle	SH - Surface horizontal	264	
			2500K - 6500K		10C - 10° - linear optics with honeycomb louver	OT - Open cable both sides	E - end of row	SV - Surface Vertical	...	
			2700K - 6500K		30X - 30° - linear optics			A0 - Adjustable Arm L40	3,889	
			<1600K - 2700K		30A - 30° - linear optics with longitudinal louver			A1 - Adjustable Arm L100	3,952	
					30B - 30° - linear optics with longitudinal and transversal louver			A2 - Adjustable Arm L200	4,014	
					30C - 30° - linear optics with honeycomb louver			A3 - Adjustable Arm L300		
					60X - 60° - linear optics			SA - Surface adjustable		
					60A - 60° - linear optics with longitudinal louver			X - No supplied mounting accessory		
					60B - 60° - linear optics with longitudinal and transversal louver					
					60C - 60° - linear optics with honeycomb louver					
					OLX - Opal low (sealed or cover)					
					SDC - Soft diffuse with honeycomb louver					

NOTE: The order code table shows all available options for each product. However some combinations are not possible, due to product design. Please use our online configurator to specify your final product order code.

MOUNTING ACCESSORIES (SELECTABLE WITH ORDER CODE)

Please note: Mounting accessory 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 digit in the order code below.

	Mounting accessories	Description
	**SURFACE MOUNTING FIXED HORIZONTAL** Digits in order code: SH	Stainless steel clip with washer. Clips inside the fixture profile for invisible mounting. DarkSky requires a downward-facing installation. Use according to the mounting instruction.
	**SURFACE MOUNTING FIXED VERTICAL** Digits in order code: SV	Stainless steel clip with washer. Clips inside the fixture profile for invisible mounting. Sliding block C010 incl. screw Metal mounting block with set screw for vertical applications. Install inside the fixture profile to stop the fixture from sliding. Use according to the mounting instruction.
	**ADJUSTABLE ARM** Digits in order code: A0 | A1 | A2 | A3	40 mm / 1.57 in (A0), 100 mm / 3.94 in (A1), 200 mm / 7.87 in (A2) or 300 mm / 11.81 in (A3) adjustable mounting arm. Supplied according to the selected profile color (RAL9003, RAL9005, RAL9022). The set includes premounted mounting clip incl. screws for fixing the luminaire. Allows tilting by 120° in any direction and features cable channel. Use according to the installation instructions.
 	**SURFACE MOUNTING ADJUSTABLE** Digits in order code: SA	Adjustable Mounting Clip C007/C010 L140 (silver or black anodized). 140 mm / 5.51 in long adjustable mounting clip tiltable 60° to each side. Silver clip comes together with profile colors white and gray. Black clip comes together with the black profile color. Use according to the mounting instruction.



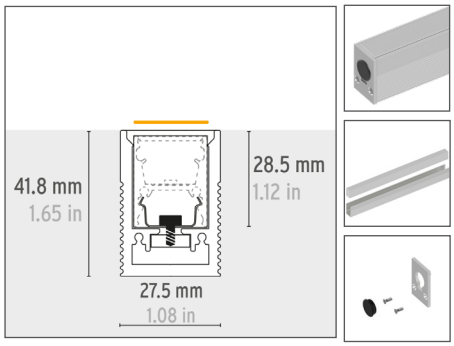
MOUNTING LOCK

Digits in order code: ML

Screw Kit M5 for Mounting Lock 25 mm
threaded pin with washer and nut.
For a vandal resistant installation.

DarkSky requires a downward-facing installation.

Use according to the mounting instruction.



INGROUND MOUNTING FRAME

Digits in order code: IF

(L x H x W)
luminaire length x 41.8 mm x 27.5 mm

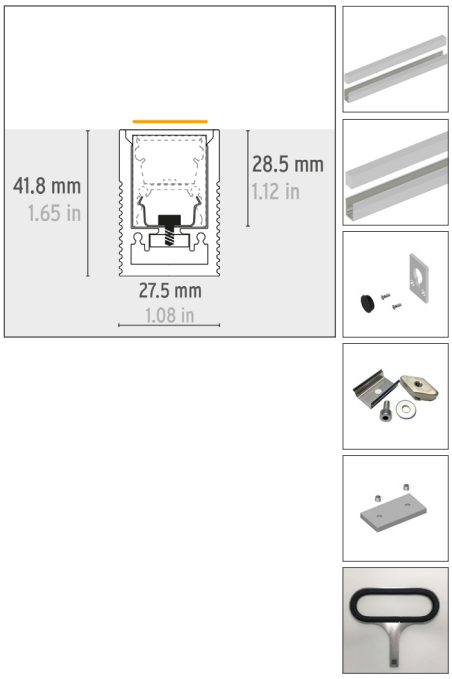
Aluminum frame (silver anodized) cut to luminaire length incl. styrofoam dummy and endcap + clip set for stand-alone luminaire applications.

Suitable for pedestrian and vehicular use up to 10 kN.
Drainage must be prepared on site.

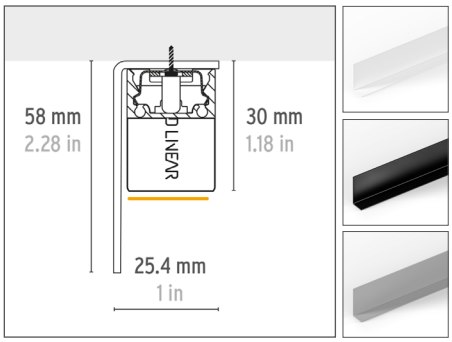
Use according to the mounting instruction.

ADDITIONAL ACCESSORY (OPTIONAL - ORDERED SEPARATELY)

Please note: Mounting accessories are not automatically included with the luminaire. Please order the right amount of accessories with the article numbers listed below. For any questions, please contact our customer service.



Mounting accessories	Description
INGROUND FRAME 2 M W/ DUMMY Art.-#: 10000639-2m	Aluminum in-ground mounting frame, silver anodized, in 2 m / 6.6 ft or 4 m / 13.1 ft lengths including styrofoam dummy. Cut to size on site.
INGROUND FRAME 4 M W/ DUMMY Art.-#: 10000639-4m	
INGROUND FRAME ENDCAP SET Art.-#: 11000310-SIL	Additional accessories required: End cap set, includes one end cap and two screws. Clip set includes one clip (number of clips < 400 mm = 2 clips, every 400 mm +1 clip). Mech. connector set includes one connector and two grub screws.
INGROUND FRAME CLIP SET Art.-#: 13000504	
INGROUND FRAME CONNECTOR Art.-#: 13000503	Suitable for pedestrian and vehicular use up to 10 kN. Drainage must be prepared on site.
DISASSEMBLY TOOL FOR INGROUND FRAME Art.-#: 13100032	For a line installation choose „X“ as part of the order code and order the inground frame and all accessories separately. Use according to the mounting instructions.

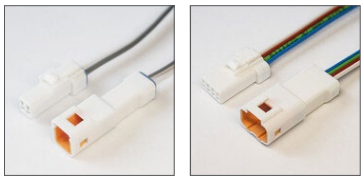
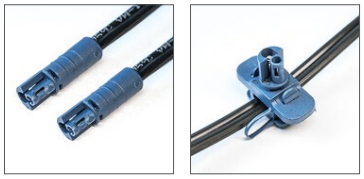
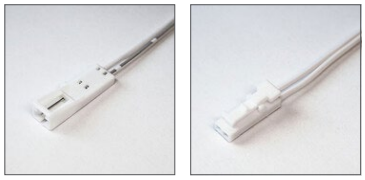


GLARE SHIELD WHITE - 1 M OR 2 M Art.-#: 10000622-RAL9003-1m or 10000622-RAL9003-2m	The glare shield can be combined with the following mounting accessories: SH | SV | ML
GLARE SHIELD BLACK - 1 M OR 2 M Art.-#: 10000622-RAL9005-1m or 10000622-RAL9005-2m	Glare is completely cut off to one side.
GLARE SHIELD GREY - 1 M OR 2 M Art.-#: 10000622-RAL9022-1m or 10000622-RAL9022-2m	Glare shield has to be cut on site to the needed lenght and prepared to be combined with the mounting accessory. DarkSky requires a downward-facing installation. Use according to the mounting instructions.

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:

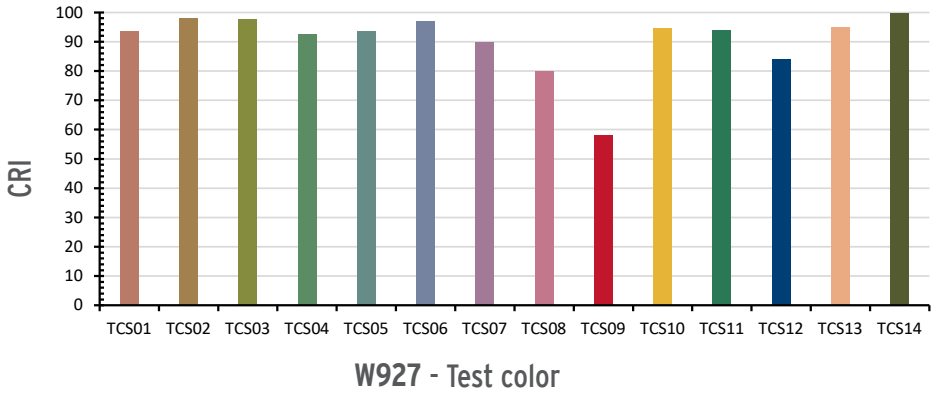
GLOBAL https://www.led-linear.com/products/smart-lighting
USA https://www.ledlinearusa.com/products/drivers-controllers

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

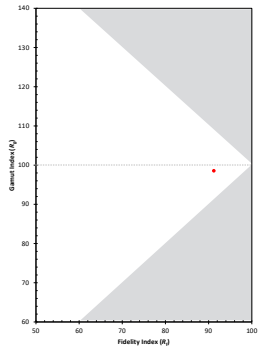
Example for „TW HYDRA HC“ at 2700 K and 6500 K

CRI



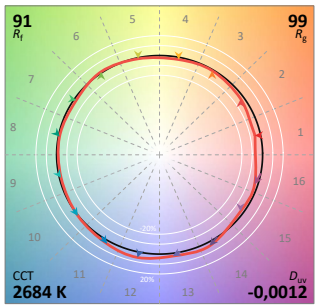
W927 - Test color

Gamut Index vs. Fidelity Index



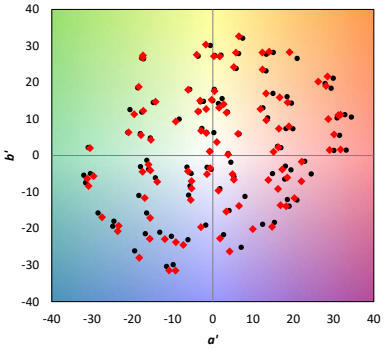
TM-30-18

Color Vector Graphig



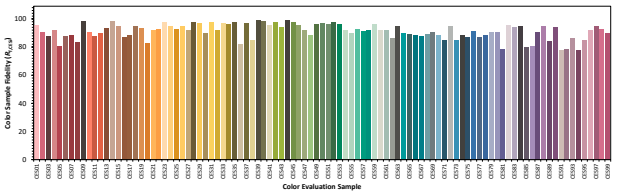
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



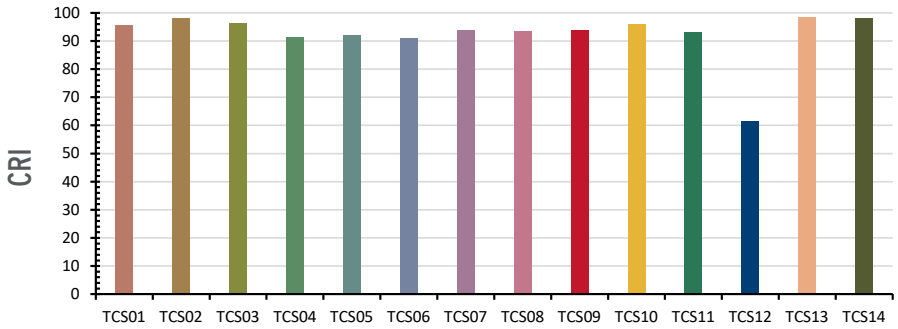
Reference Illuminant
Test Source

W927



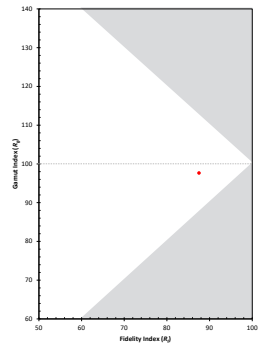
The Fidelity Index chart shows the color fidelity index for each of the 99 reference colors. The reference colors are arranged under the 5000 K reference source, which was also used to determine the color of each bar. The colors are approximate and depend on the correct monitor calibration. Some colors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

CRI



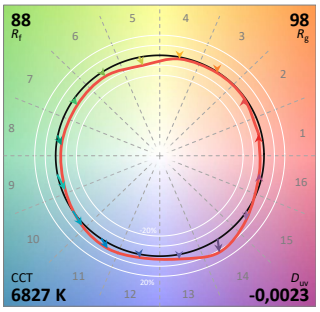
W965 - Test color

Gamut Index vs. Fidelity Index



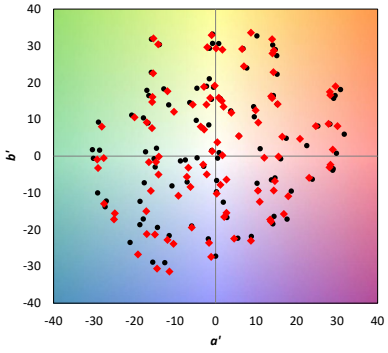
TM-30-18

Color Vector Graphig



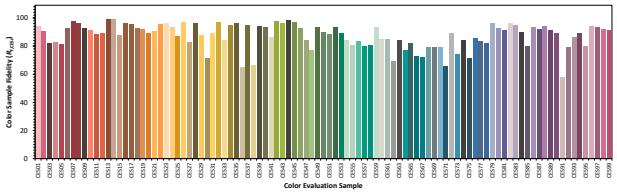
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W965



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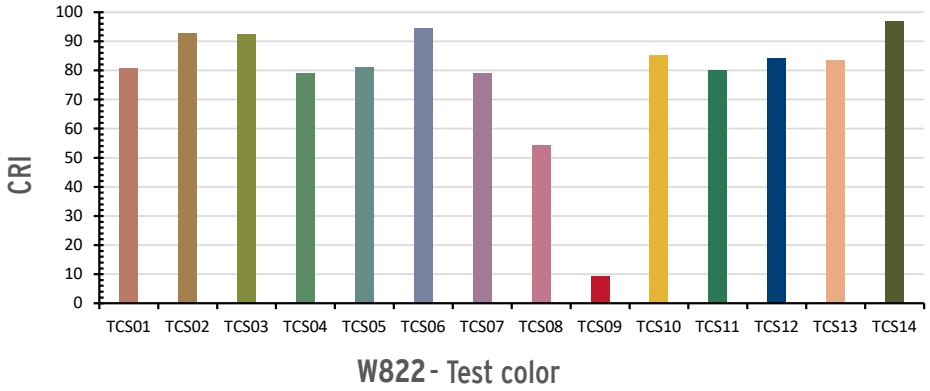
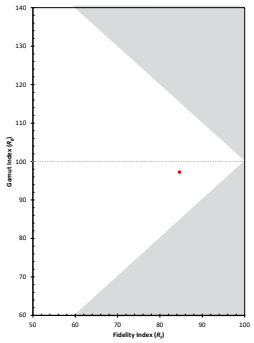
Example for „TW HYDRA HE“ at 2200 K and 4000 K

CRI



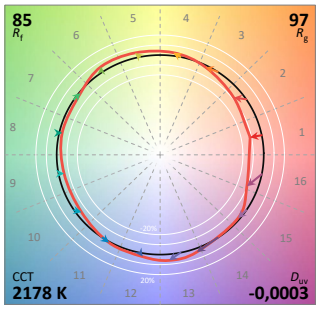
W822 - Test color

Gamut Index vs. Fidelity Index



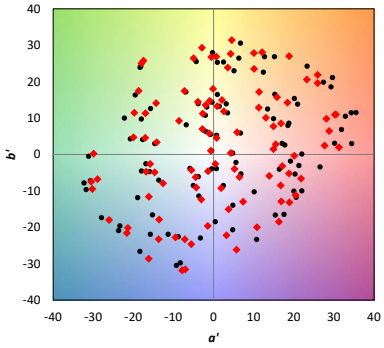
TM-30-18

Color Vector Graphig



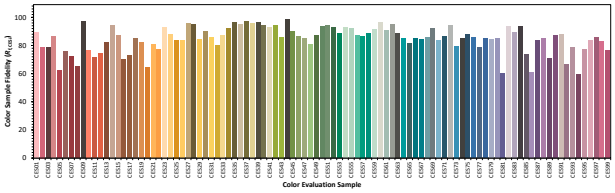
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W822



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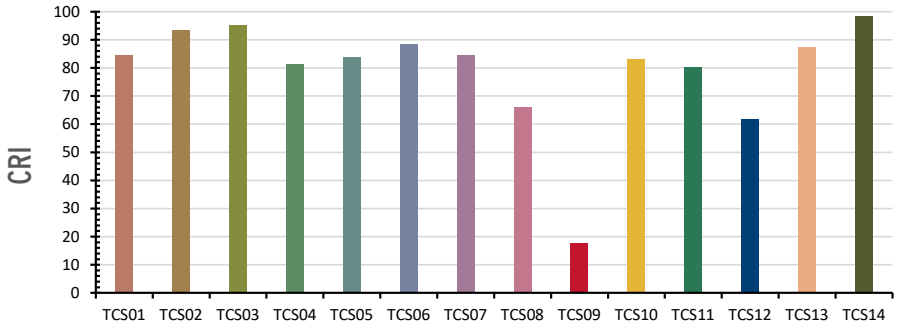
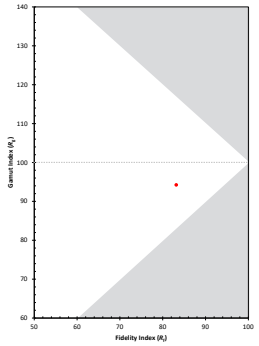
CRI



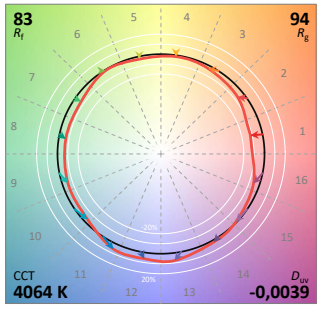
W840 - Test color

Gamut Index vs. Fidelity Index



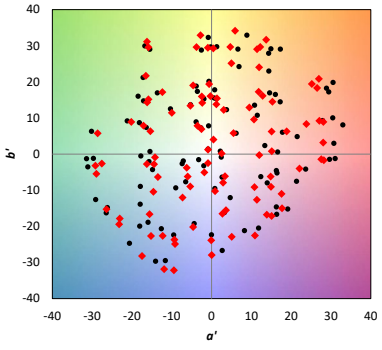
TM-30-18

Color Vector Graphig



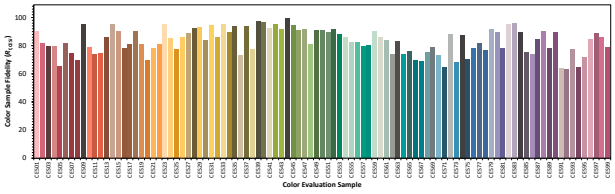
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W840



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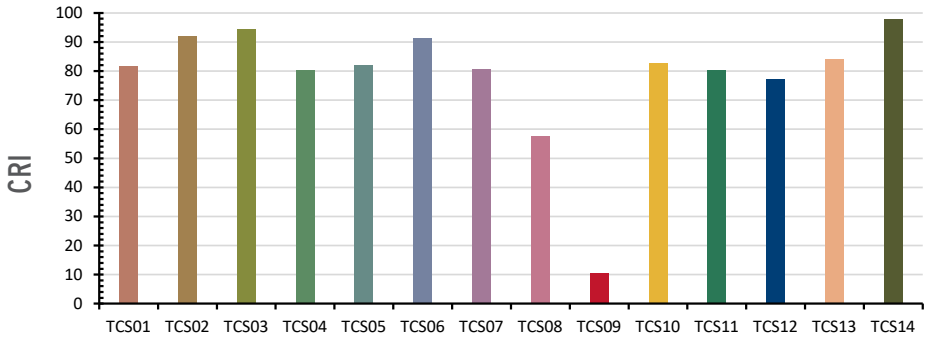
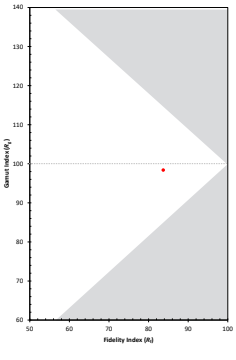
Example for „TW HYDRA HE“ at 2700 K and 6500 K

CRI



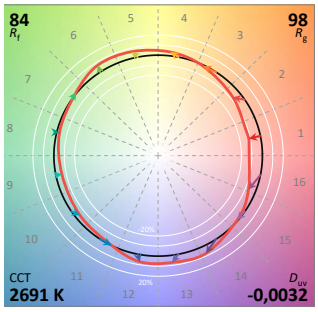
W827 - Test color

Gamut Index vs. Fidelity Index



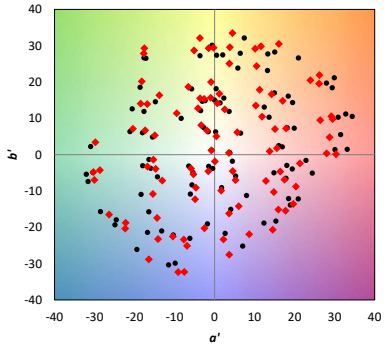
TM-30-18

Color Vector Graphig



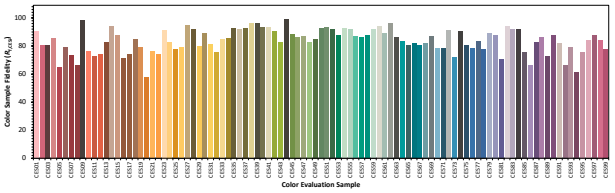
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W827



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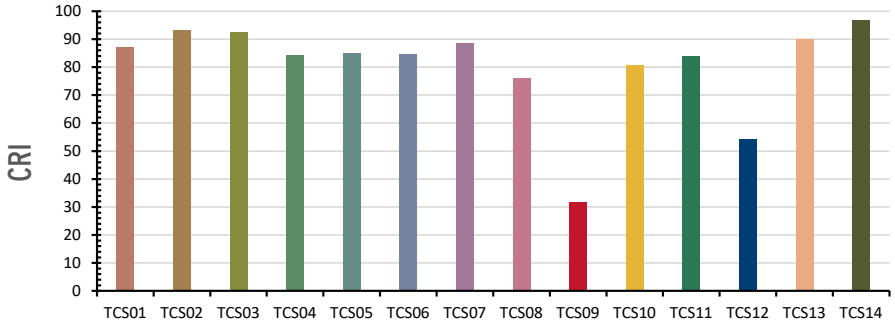
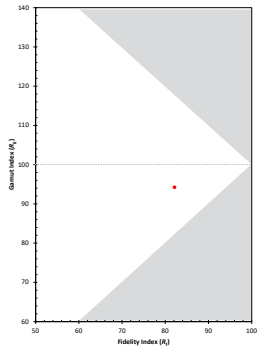
CRI



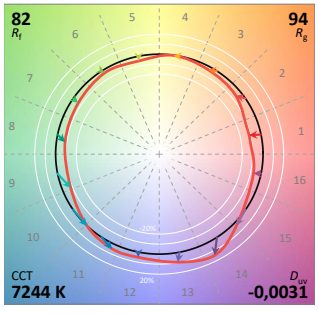
W865 - Test color

Gamut Index vs. Fidelity Index



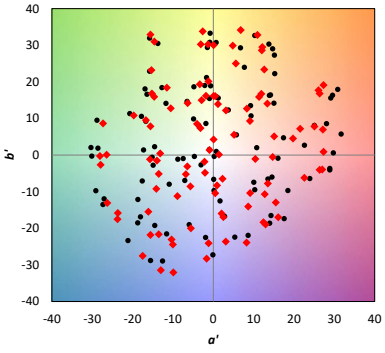
TM-30-18

Color Vector Graphig



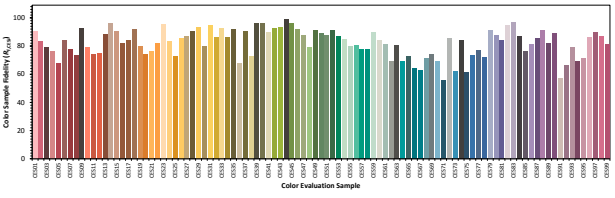
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W865



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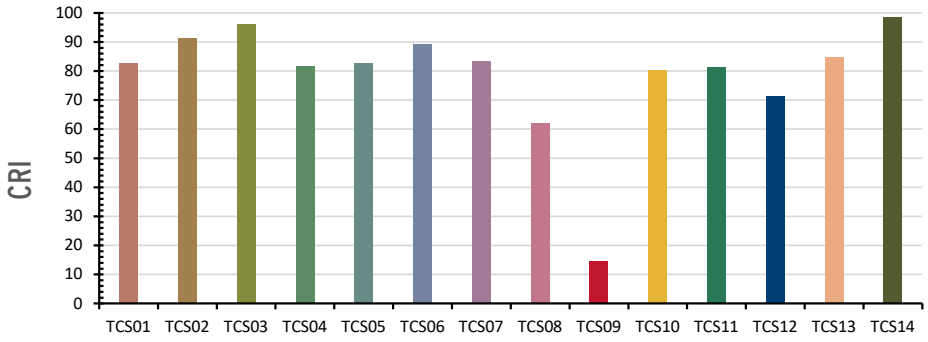
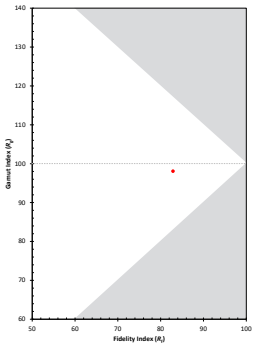
Example for „TW HYDRA HE“ at 1800 K and 3000 K

CRI



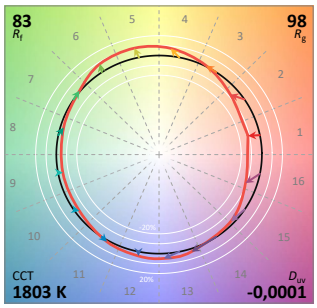
W818 - Test color

Gamut Index vs. Fidelity Index



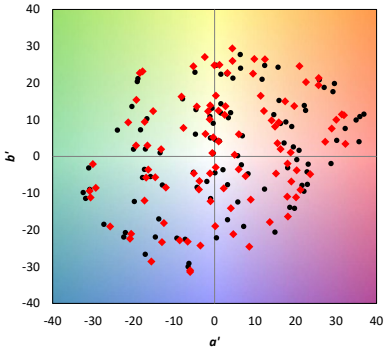
TM-30-18

Color Vector Graphig



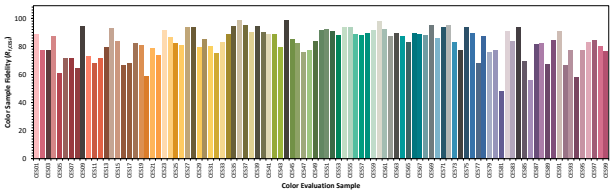
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W818



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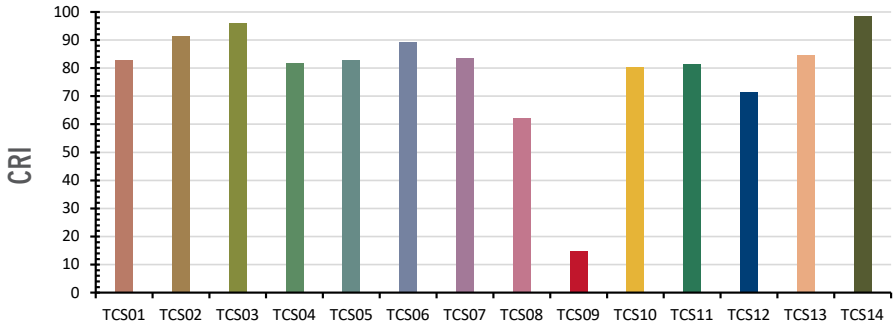
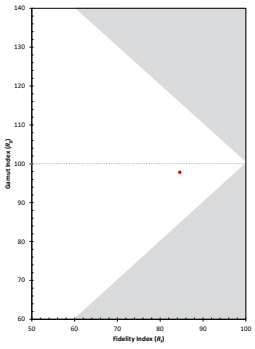
CRI



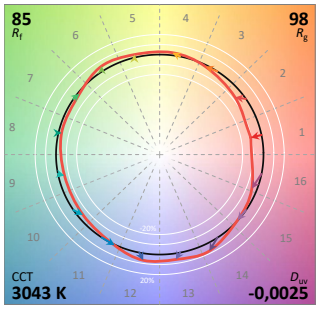
W830 - Test color

Gamut Index vs. Fidelity Index



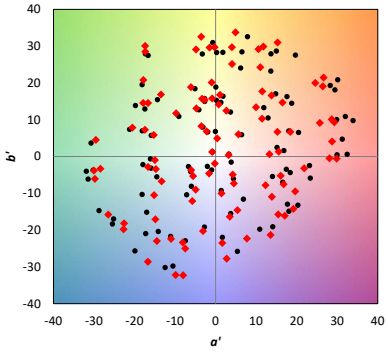
TM-30-18

Color Vector Graphig



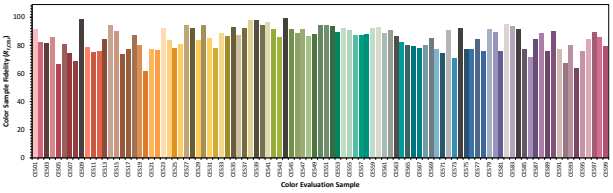
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W830



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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.