LED Linear™ GmbH • Dr.-Alfred-Herrhausen-Allee 20, 47228 Duisburg, Germany
www.led-linear.com • info@led-linear.com • +49 2065 94322-100

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LED LINEAR™
A Fagerhult Group Company

ADONIS IP67

ADONIS TW HE_ _ _ _ ___ _ IP67

Project name

Company

Phase / Luminaire type for tech. spec. document

Date

Luminaire configuration: Stand-alone luminaire	Luminaire configuration: B - beginning of row	Luminaire configuration: M - cont. row middle	Luminaire configuration: E - end of row	Light color / light source: Tunable White (TW)	Color rendering and efficiency: HE - CRI > 80, high efficacy
LED pitch / density: High Density	Profile color: Black	Profile color: Grey (RAL9022)	Profile color: White (RAL9003)	Power supply position: 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	Protection class: IP67	Input voltage [V]: 24V DC	

MOST VERSATILE LINEAR SYSTEM FOR OUTDOOR LIGHTING.

ADONIS IP67 is a modular outdoor lighting system for precise architectural grazing and defined illumination. A range of optical versions enables exact light distribution across façades, walls and ceilings, while translucent or solid end caps allow continuous light lines or controlled terminations. Freely scalable in length and available with light sources from static white and tunable white to RGBW, ADONIS combines optical precision with system versatility for demanding exterior applications.

CERTIFICATES

DarkSky Approved

Conformité Européenne (CE)

Ecodesign Directive

Environmental Product Declaration (EPD)

ETL certified

Protection Class III

WEEE

- IECEE CB Scheme
- IPx9 testing according to ISO 60598-1:2020 by Intertek
- Salt mist testing according to DIN EN 60068-2-52:2018 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]	97	94.3	92.8
Max. daisy chain length [m]	5	4	2
CRI / R9	85/25	85/25	85/25
Rf / Rg	85/102	85/102	85/102
Ambient temperature [°C] max	50	40	30
Housing Temperature [°C] max	75	75	75

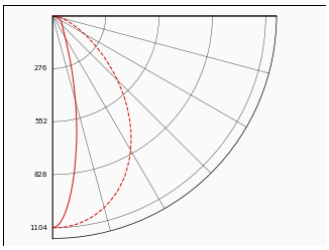
Power [W/m]	12	24	36
		Luminous flux [lm/m]	
1830	1180	2420	3300

(1): Light engine family: HYDRA HE TW HE ; Light distribution: 10E - 10° - linear optics ; Light color / light source: Tunable White (TW) ; Profile color: White (RAL9003) ; Integrated anti-glare: No integrated anti-glare ; Optional glare control accessory: No Accessories

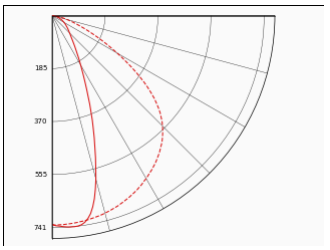
PRODUCT INFORMATION

Product family	ADONIS IP67	**Protection class**	IP67
Luminaire type (rigid / flexible)	Rigid luminaire	**Luminaire profile size**	Standard
Light color / light source	Tunable White (TW)	**Color rendering and efficiency**	HE - CRI > 80, high efficacy
Width of fixture incl. mounting accessory [mm]	20.5	**Height of fixture incl. mounting accessory [mm]**	28.5
Color rendering index (CRI/Ra)	85	**Color rendering index (R9)**	25
TM30 - Rf	85	**TM30 - Rg**	102
Light engine family	HYDRA HE TW HE	**Lumen maintenance (LED manufacturer specification)**	L80/B10
LED pitch / density	High Density	**ANSI LED binning**	3 SDCM
Cable outlet position	X - Not relevant	**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
DarkSky certification	DarkSky certified	**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	**LED step length [mm]**	62.5

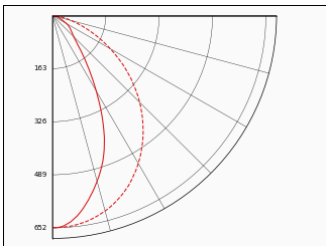
AVAILABLE OPTICS



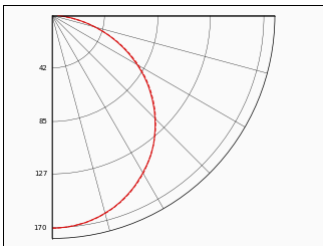
10E - 10° - linear optics



30E - 30° - linear optics



60E - 60° - linear optics

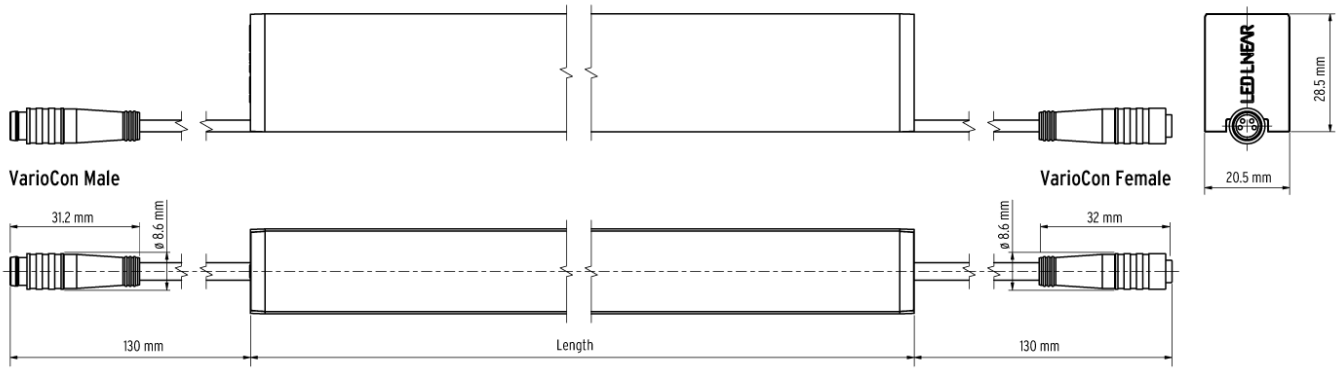


OL - Opal low (sealed or cover)

TECHNICAL SPECIFICATIONS

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

Standard ADONIS ARCHITECTURAL IP67 with two connectors (DC)



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

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: 10E - 10° - linear optics ; Light color / light source: Tunable White (TW) ; Profile color: White (RAL9003) ; Integrated anti-glare: No integrated anti-glare ; Optional glare control accessory: No Accessories

Available product options

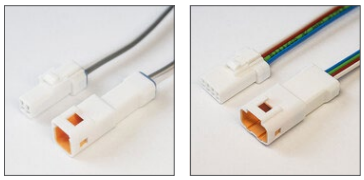
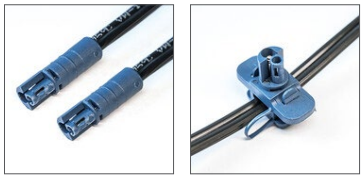
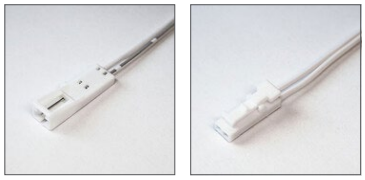
Light color / light source	Class	Power [W/m]	Color temperature (ANSI CCT)	Profile color	Light distribution	Cable / connector configuration	Luminaire configuration	Mounting type and accessory	Length [mm]	Protection class
Tunable White (TW)	High Efficency	12	<1600K - 2700K	Black	10E - 10° - linear optics	MO - Male connector one side	Stand-alone luminaire	A0 - Adjustable Arm L40	202	IP67
		24	1800K - 3000K	Grey (RAL9022)	30E - 30° - linear optics	DC - Daisy chain	B - beginning of row	A1 - Adjustable Arm L100	264	
		36	2000K - 4000K	White (RAL9003)	60E - 60° - linear optics	OO - Open cable one side only	M - cont. row middle	A2 - Adjustable Arm L200	327	
			2200K - 4000K		OL - Opal low (sealed or cover)	OT - Open cable both sides	E - end of row	A3 - Adjustable Arm L300	...	
			2500K - 6500K					IF - Inground frame	3,889	
			2700K - 6500K					ML - Mounting lock - vandal-proof clip	3,952	
								SA - Surface adjustable	4,014	
								SH - Surface horizontal		
								SV - Surface Vertical		
								X - No supplied mounting accessory		

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.

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:

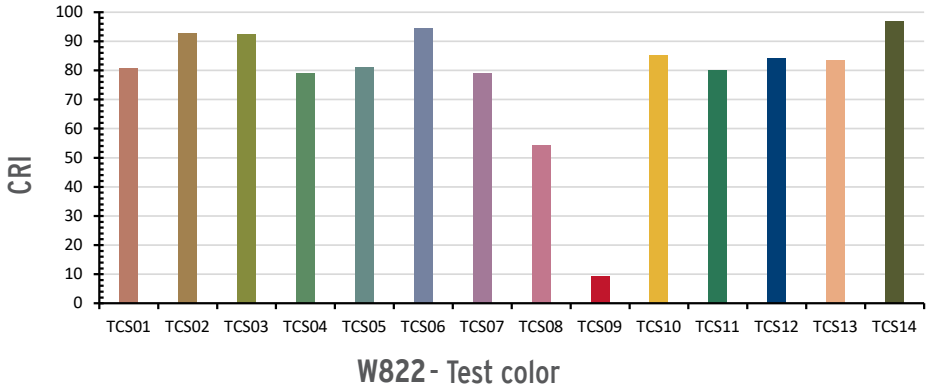
GLOBAL https://www.led-linear.com/products/smart-lighting
USA https://www.ledlinearusa.com/products/drivers-controllers

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

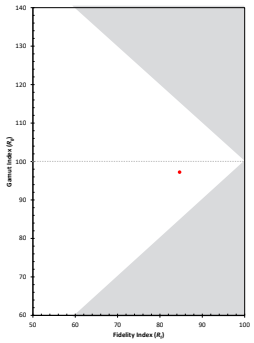
Example for „TW HYDRA HE“ at 2200 K and 4000 K

CRI



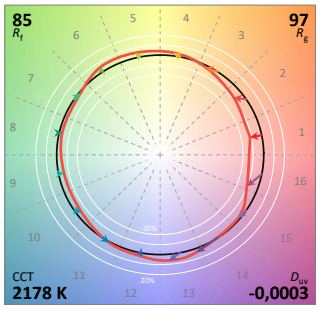
W822 - Test color

Gamut Index vs. Fidelity Index



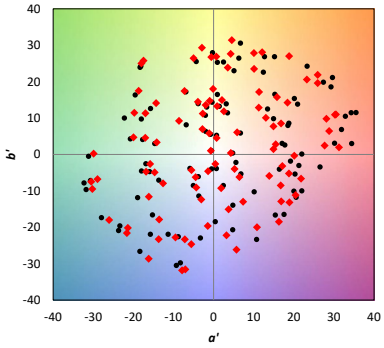
TM-30-18

Color Vector Graphig



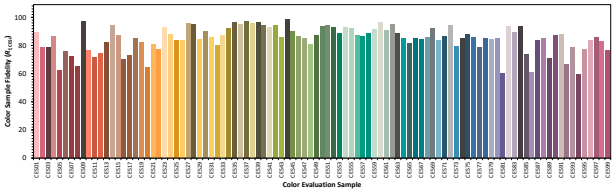
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



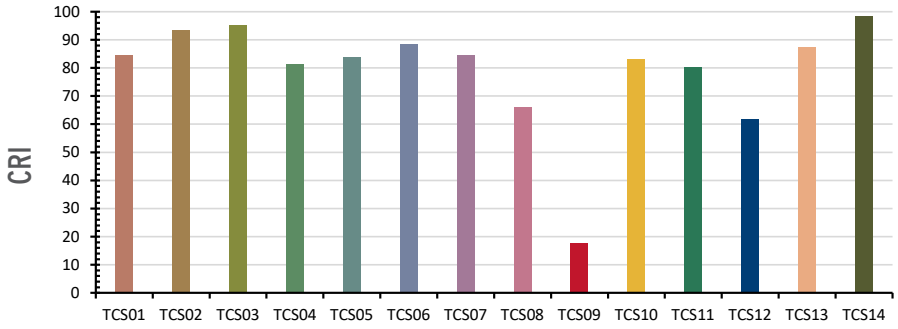
Reference Illuminant
Test Source

W822



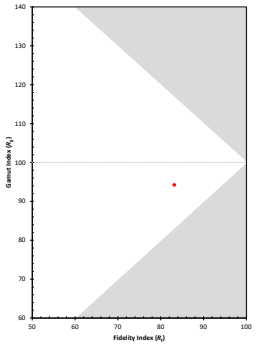
The Fidelity Index chart shows the color fidelity index for each of the 99 reference colors. The reference colors are arranged under the 5000 K reference source, which was also used to determine the color of each bar. The colors are approximate and depend on the correct monitor calibration. Some colors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

CRI



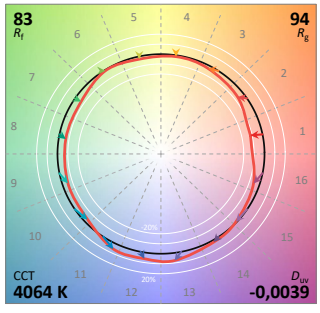
W840 - Test color

Gamut Index vs. Fidelity Index



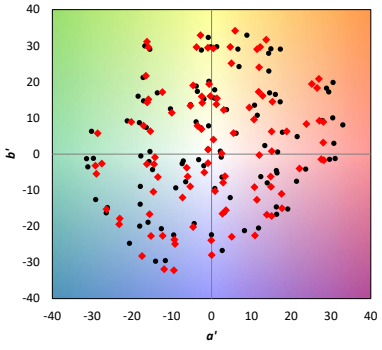
TM-30-18

Color Vector Graphig



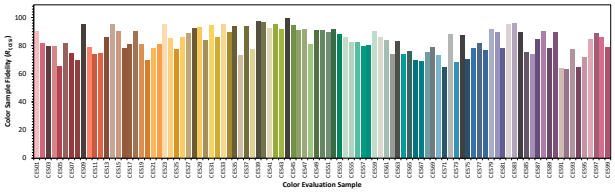
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W840



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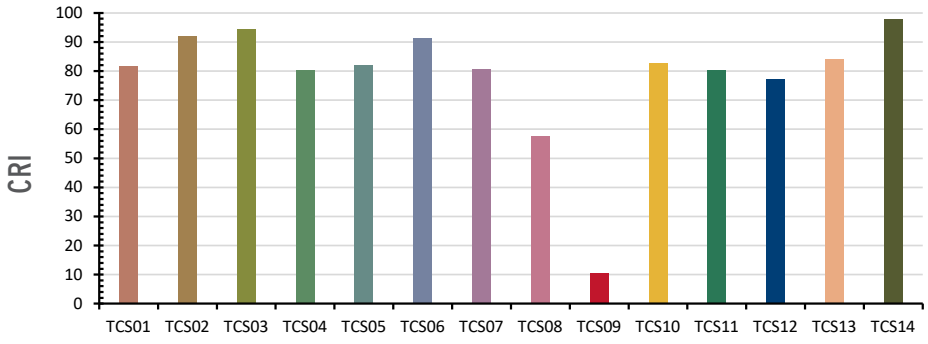
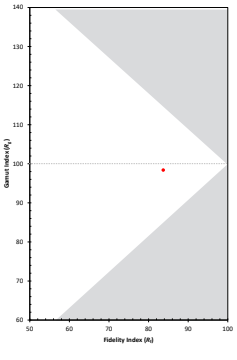
Example for „TW HYDRA HE“ at 2700 K and 6500 K

CRI



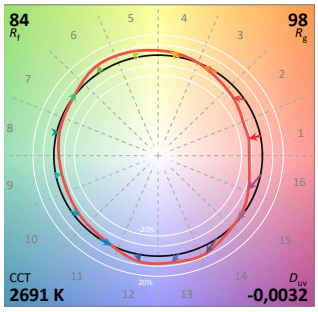
W827 - Test color

Gamut Index vs. Fidelity Index



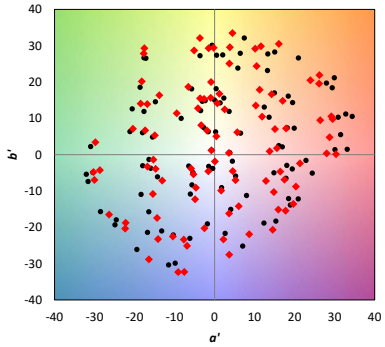
TM-30-18

Color Vector Graphig



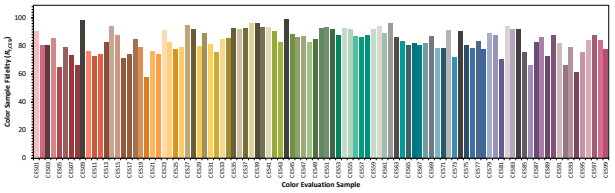
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W827



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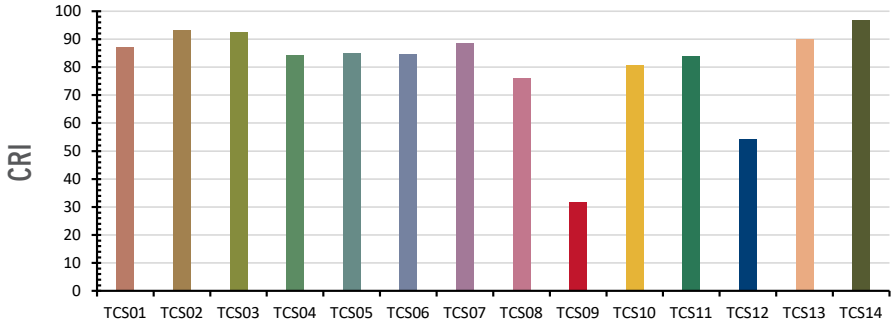
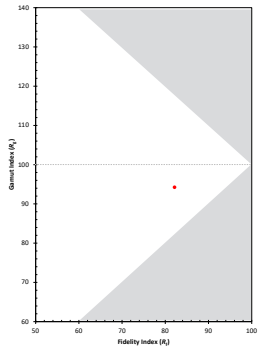
CRI



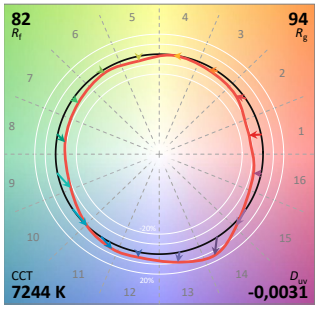
W865 - Test color

Gamut Index vs. Fidelity Index



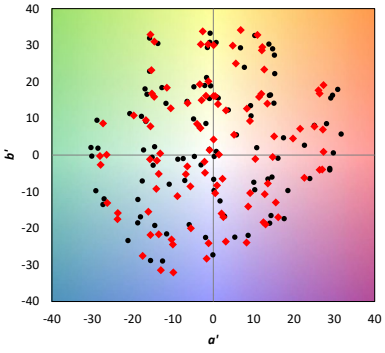
TM-30-18

Color Vector Graphig



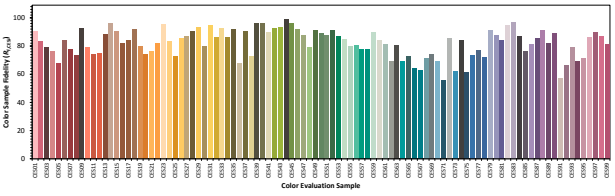
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W865



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View this configuration in the online product finder

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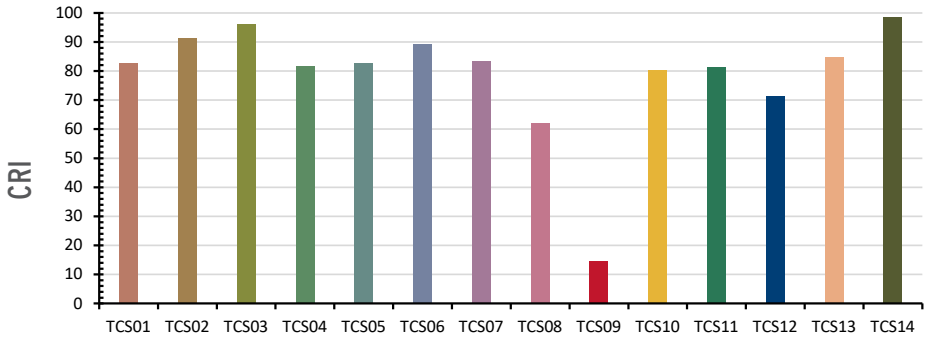
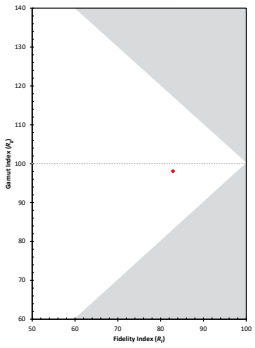
Example for „TW HYDRA HE“ at 1800 K and 3000 K

CRI



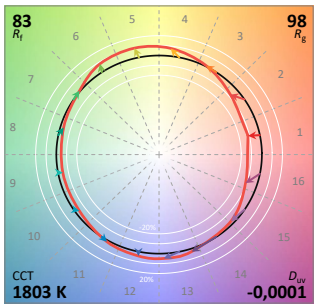
W818 - Test color

Gamut Index vs. Fidelity Index



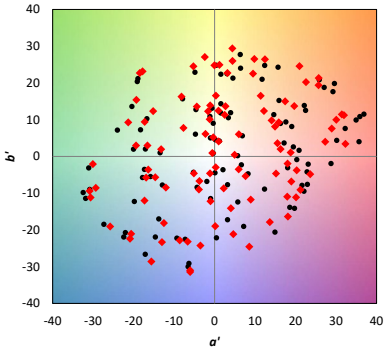
TM-30-18

Color Vector Graphig



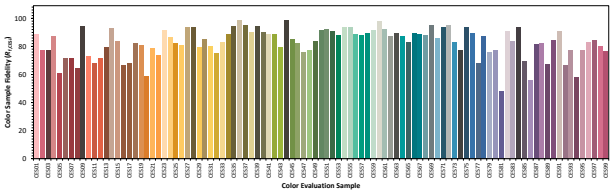
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



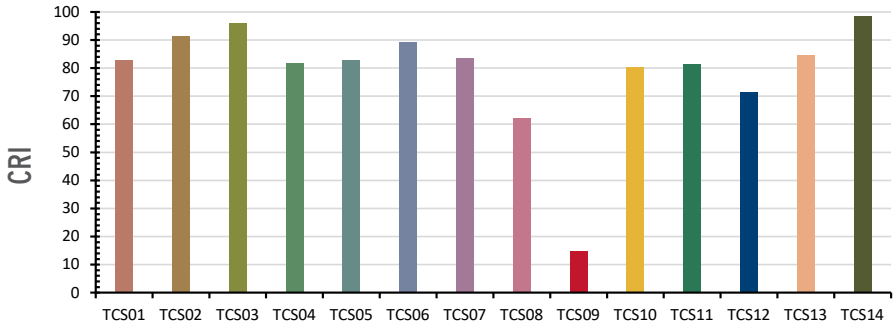
Reference Illuminant
Test Source

W818



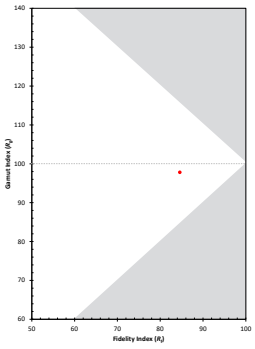
The Fidelity Index chart shows the color fidelity index for each of the 99 reference colors. The reference colors are arranged under the 5000 K reference source, which was also used to determine the color of each bar. The colors are approximate and depend on the correct monitor calibration. Some colors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

CRI



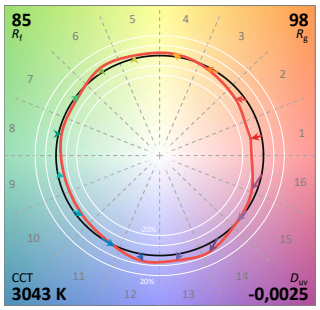
W830- Test color

Gamut Index vs. Fidelity Index



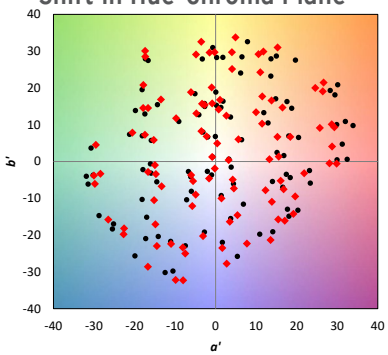
TM-30-18

Color Vector Graphig



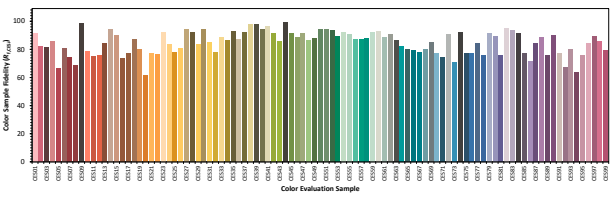
Reference Illuminant
Test Source

Shift in Hue-Chroma Plane



Reference Illuminant
Test Source

W830



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.

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.