

COOLiGHT

PREMIUM LIGHT FOR ALL

OVER 20 YEARS
OF EXPERIENCE FOR LED LIGHT

COOLiGHT

2026 PRODUCT CATALOGUE

2026 PRODUCT CATALOGUE

COOLiGHT
Lighting your life
Since 2006

Shenzhen Coolight Opt-Ele Co., Ltd

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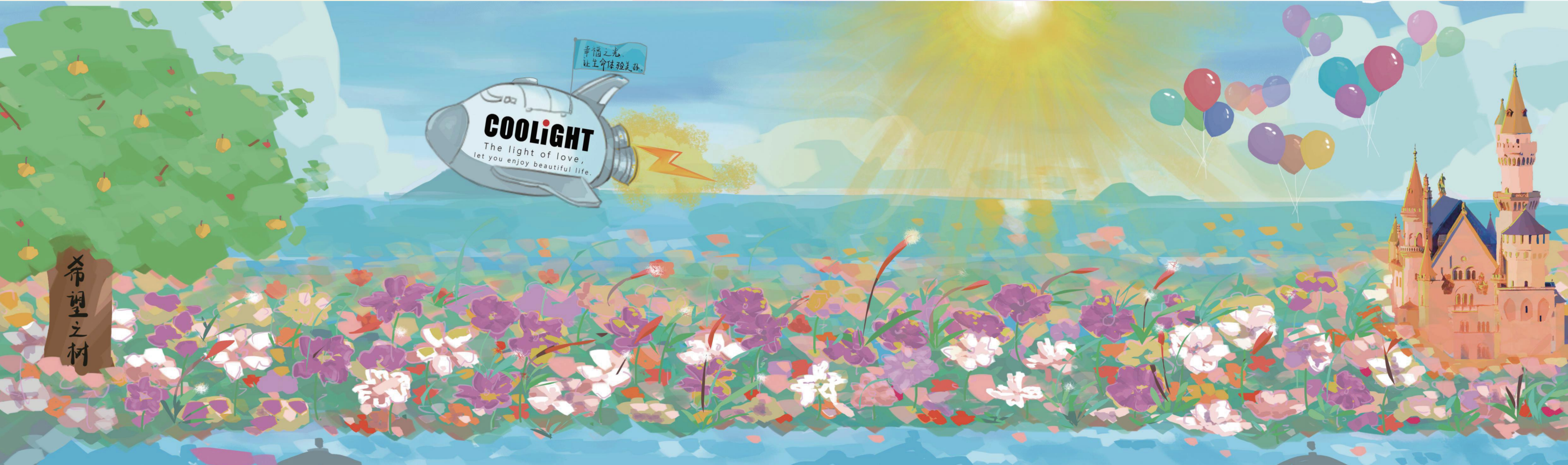
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The Light Of Love,Let You Enjoy Beautiful Life!



COOLIGHT VISION: The light of love , Let you enjoy beautiful life !

▪ **COOLIGHT MISSION**

Make higher-quality LED strips affordable for more people.

▪ **COOLIGHT PASSION**

Leading | Innovation | Growth | Self-confidence | Sharing | Freedom

▪ **COOLIGHT VALUE**

Trust | Growth | Responsibility | Make constant value for customers

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COMPANY PROFILE

What is COOLIGHT?

Shenzhen Coolight Opt-Ele Co.,Ltd. was established in 2006,the company's production and operation area of more than 10,000 square meters, more than 300 employees, annual production capacity of more than 12 million meters, has become the leading high-quality flexible LED strips manufacturer,integrating R&D, production and sales, products exported to Europe, America, Southeast Asia, the Middle East mainly more than 60 countries and regions.

COOLIGHT has passed ISO9001:2015,CE,ROHS,REACH,UL,ERP and other certifications,and have independently applied for more than 70 invention patents and utility model patents.

In 2019, COOLIGHT LED packaging department was established.In 2021, the self-developed IP67 silicone waterproof LED strip "Xribbon" won the German Red Dot Award, and the turnover exceeded 200 million RMB.In 2022, the explosive LEADING CSP series was launched.In 2024, Won the 2024 Top 100 Enterprises of Shenzhen Industry Leading Association.Established the headquarters in Shenzhen Bay Diamond Tower, Nanshan District, Shenzhen. In 2025, COOLIGHT was again named one of Shenzhen's Top 100 Industry-leading Enterprises and won the Demonstration Project Award at the 6th Bao'an District Volunteer Service Project Competition. Currently, COOLIGHT is a national high-tech enterprise in China and a specialized and innovative enterprise in Guangdong Province.



FOUNDER & CHAIRMAN

In 2023, Ms. Mary Long, driven by her life's vision, chose to become a beam of light—illuminating lives with her own. To bring this lofty ideal to life, she founded Shenzhen Xingyue Player Culture Co., Ltd. in the heart of Shenzhen Bay, Nanshan District, dedicating herself to the cultural sector and public welfare. Through inspirational speaking and sharing, she embarked on a path to help more people discover the meaning of life and live to their fullest potential.

Meanwhile, as the spiritual leader and Chairman of COOLIGHT, Ms. Mary Long has completed her role transformation, now focusing solely on shaping corporate vision and conveying mission-driven energy, and no longer participates in the management and operations of COOLIGHT. Mr. Luo Yanzao has been appointed as the CEO of COOLIGHT, fully authorized to oversee the company's operations and management. He will lead the team to deepen business development, drive innovation, and commit to creating lasting value for customers, writing a brilliant new chapter for the enterprise.

A beam of light, illuminating lives;

A firm belief, guiding the way forward.

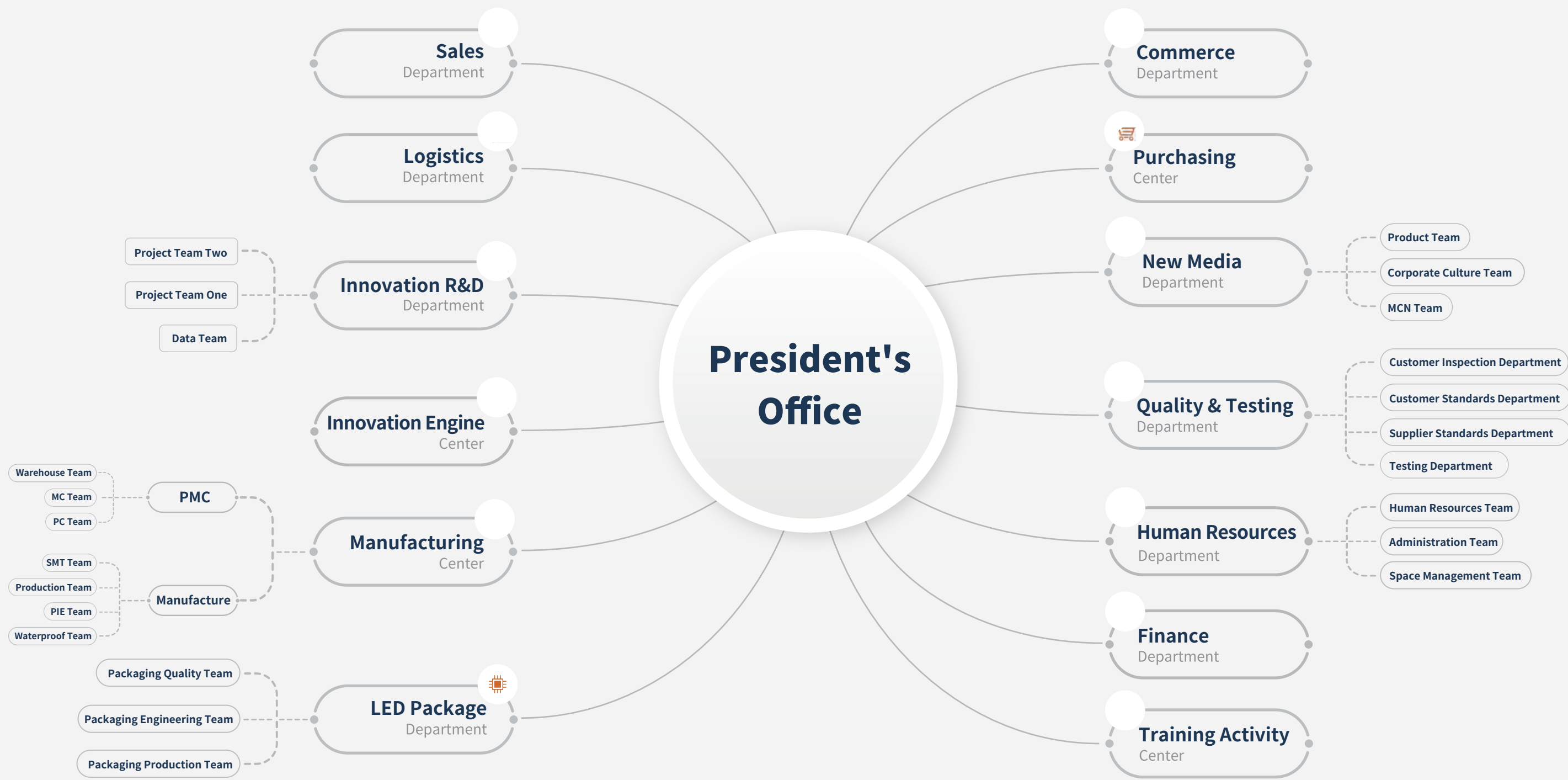
Through her endeavors that bridge culture and business, Ms. Mary Long embodies the profound meaning of “illuminating” and “leading” in this new era.

The light of love, Let you enjoy beautiful life!



ENTERPRISE ARCHITECTURE

COOLIGHT has always focused on the LED strip industry, with 13 core departments that collaborate efficiently, dedicated to providing professional and high-quality LED strip products and services to customers worldwide.



EXECUTIVE TEAM



Yanzao Luo

► **COOLIGHT CEO**



Moon Mao

► Deputy General Manager
► Human Resources Manager



Dongyun Chen

► Finance Manager



Jacky Yi

► Innovation Engine Center Director



Tony Wang

► Innovation R&D Manager
► LED Packaging Manager



Patrick Pan

► Manufacturing Center Manager



Gary Chen

► Quality & Testing Manager



Julia Li

► Event Training Center Manager



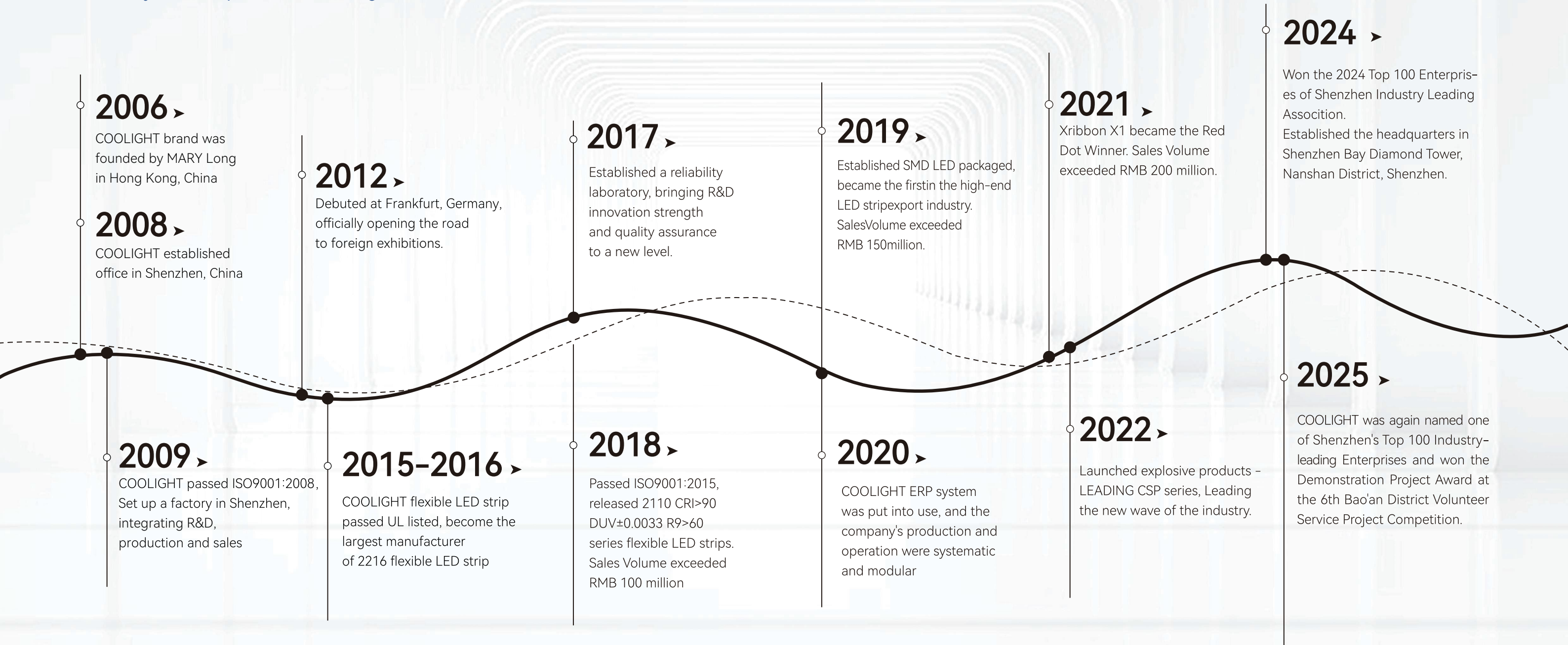
Bella Zheng

► New Media Manager

Development History

20+

Over 20 years of experience for LED light



GLOBAL SERVICE

60 + COUNTEIES

We export 95% of our products to more than 60 countries and regions.
COOLIGHT is always looking to the future.
Quality and Service are the keys to ensuring a close relationship with all our customers.



11/11/2014

- **High-tech enterprise certificate**



- **Practical patent certificate**



LEADING SERIES

CSP IP20 LED STRIP

10W CRI90 320LED/m IP20 F

10W CRI90 320LED/m IP20 CSP PRO G

14.4W CRI90 480LED/m IP20 G/F

8W CRI90 CCT Tunable 512LED/m IP20 F

15W 540LED/m IP20 24V CSP RGB

10W 280LED/m IP20 CSP PRO R/G/B (single color)

12V CSP Mini Cut G



CSP LED Strip – Design Overview

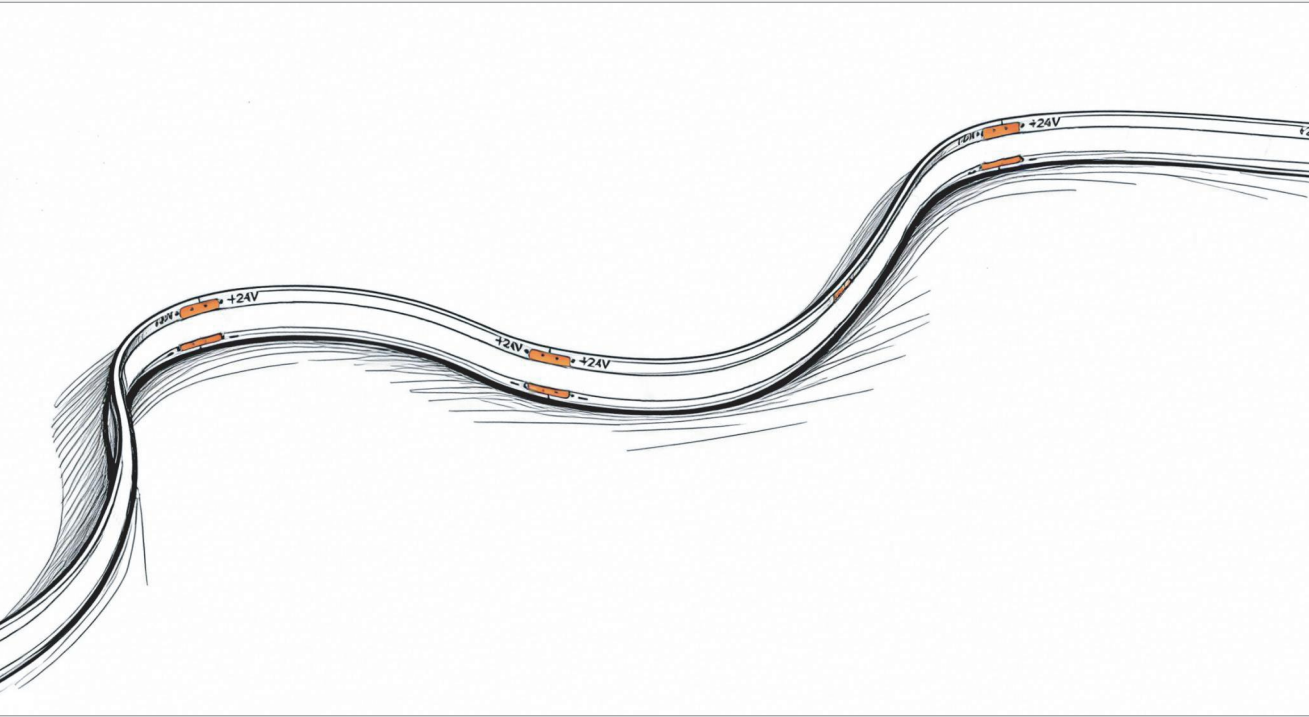
【 Basic introduction to CSP 】

CSP (Chip Scale Package) is an advanced LED packaging technology based on flip-chip design. Compared with conventional SMD packaging, CSP eliminates two key structural elements: the wire bonding process and the lead frame, thereby significantly reducing potential failure points.

In traditional SMD LED strip applications, common reliability issues are often related to these components, such as gold wire breakage under thermal shock, lead frame deformation, or plating oxidation. By adopting CSP technology, these risks are effectively minimized, resulting in improved long-term stability and reliability.

CSP LED strips have demonstrated excellent performance in environmental reliability tests, including thermal shock, high-temperature aging, and high-temperature/high-humidity aging. This makes them well suited for demanding applications and harsh environments, such as tropical climates, low-temperature regions, and high-humidity installations like saunas.

Thanks to the compact chip-scale structure, CSP LEDs enable high-density designs, typically exceeding 240 LEDs per meter. This allows for continuous series circuit layouts, ensuring consistent light output. Even in the rare case of an individual LED failure, the light strip continues to operate without noticeable dark sections, providing stable and reliable illumination throughout its service life.

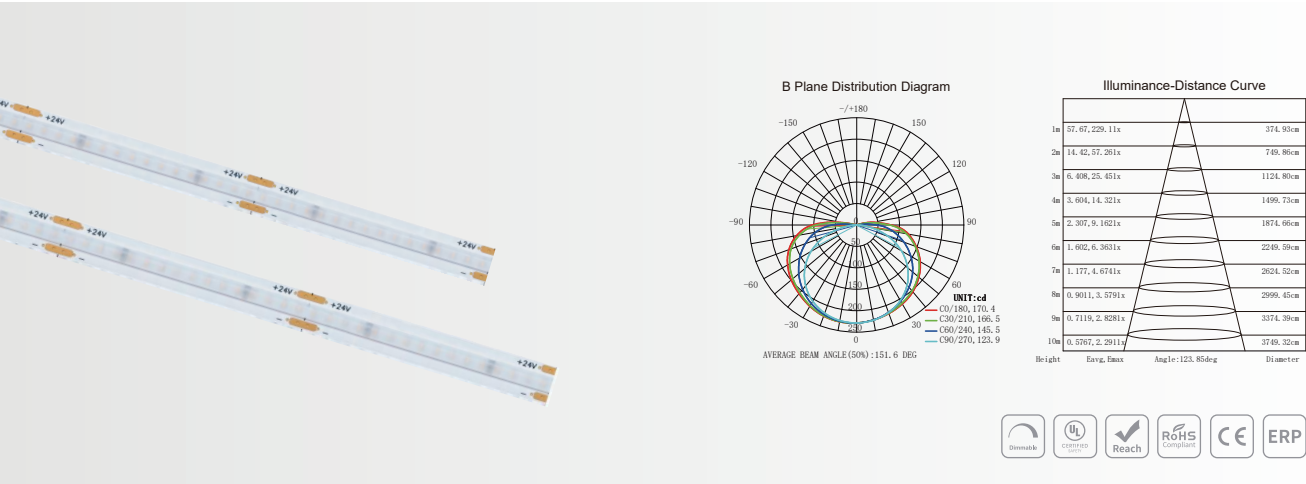


【 Comparison of Advantages Between CSP and SMD, COB LED Strips 】

- **CSP LED STRIP Advabtages**
With CSP packaging, the flip chip is mounted onto a substrate, which increases light reflectivity and enhances brightness. The substrate also enlarges the electrode area for soldering to FPC, improving solder joint reliability. CSP-packaged LEDs can undergo 100% optical sorting, ensuring color consistency.
- **COB LED STRIP Advabtages**
Flip chips can be directly applied to FPC without packaging, eliminating lead frames, gold wires, die-attach adhesives, and related processes, thereby reducing thermal resistance caused by intermediate layers.
- **SMD LED STRIP Advabtages**
The manufacturing process is mature. Forward-mounted chips deliver high luminous efficacy, and color consistency is controllable.

【 Comparison of Disadvantages Between CSP and SMD, COB LED Strips 】

- **CSP LED STRIP disadvantages**
At present, the luminous efficacy of CSP products is still lower than that of SMD products.
- **COB LED STRIP disadvantages**
Flip chips feature small electrode areas, resulting in high requirements for SMT processes; the absence of a reflective structure leads to lower light extraction efficiency. COB technology does not allow 100% photoelectric parameter testing, making it difficult to guarantee parameter consistency in mass production.
- **SMD LED STRIP disadvantages**
Material selection and wire bonding processes have a significant impact on product quality; SMD LEDs impose strict requirements on the operating environment.



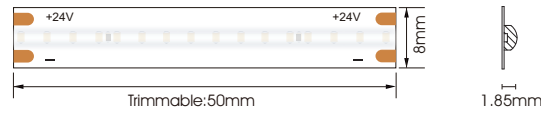
10W CRI90 320LED/m IP20 F

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

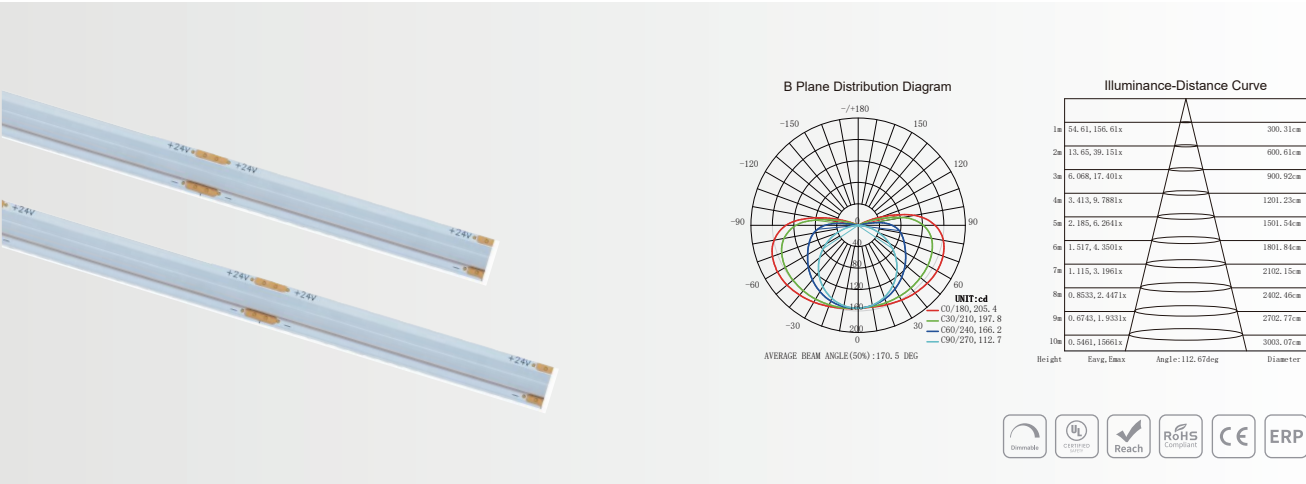
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24320T00-8A19	10	2700	97	970	>90/>40	F	≤3	20(54/66/67/68)
CLT-INNF24320T00-8A19	10	3000	100	1010	>90/>40	F	≤3	20(54/66/67/68)
CLT-DNNF24320T00-8A19	10	4000	103	1036	>90/>40	F	≤3	20(54/66/67/68)
CLT-WNNF24320T00-8A19	10	6500	103	1030	>90/>40	F	≤3	20(54/66/67/68)



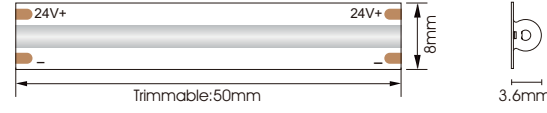
10W CRI90 320LED/m IP20 CSP PRO G

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

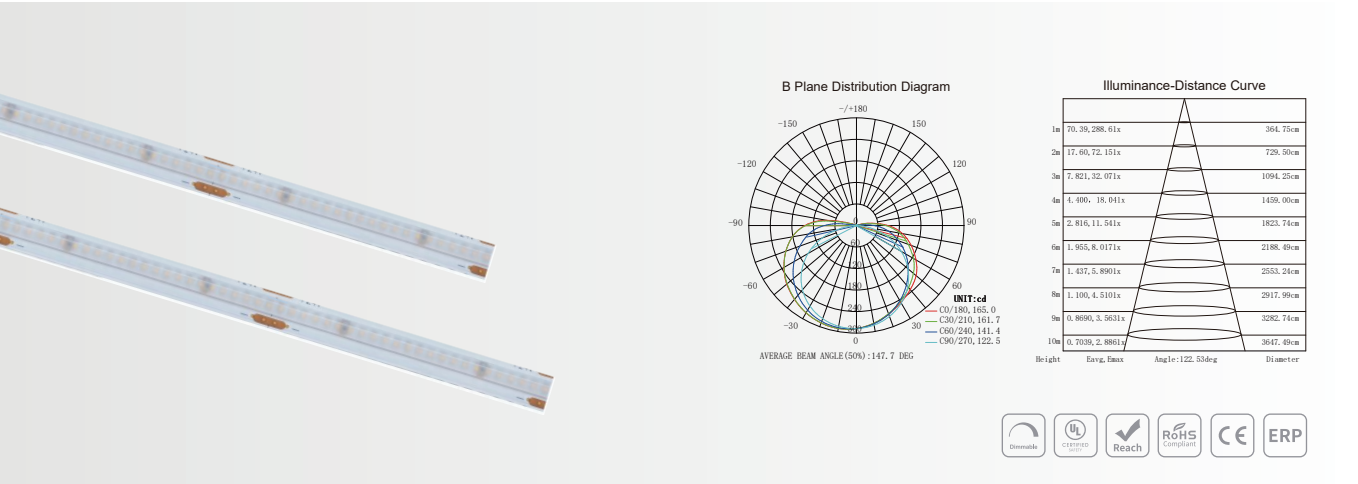
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24320T00-8A19	10	2700	78	780	>90/>40	G	≤5	20
CLT-INGF24320T00-8A19	10	3000	78	780	>90/>40	G	≤5	20
CLT-DNGF24320T00-8A19	10	4000	89	890	>90/>40	G	≤5	20
CLT-WNGF24320T00-8A19	10	6000	89	890	>90/>40	G	≤5	20



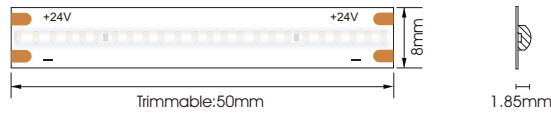
14.4W CRI90 480LED/m IP20 G/F

Electrical Data

Light Beads	: CSP
Number Led/M	: 480pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

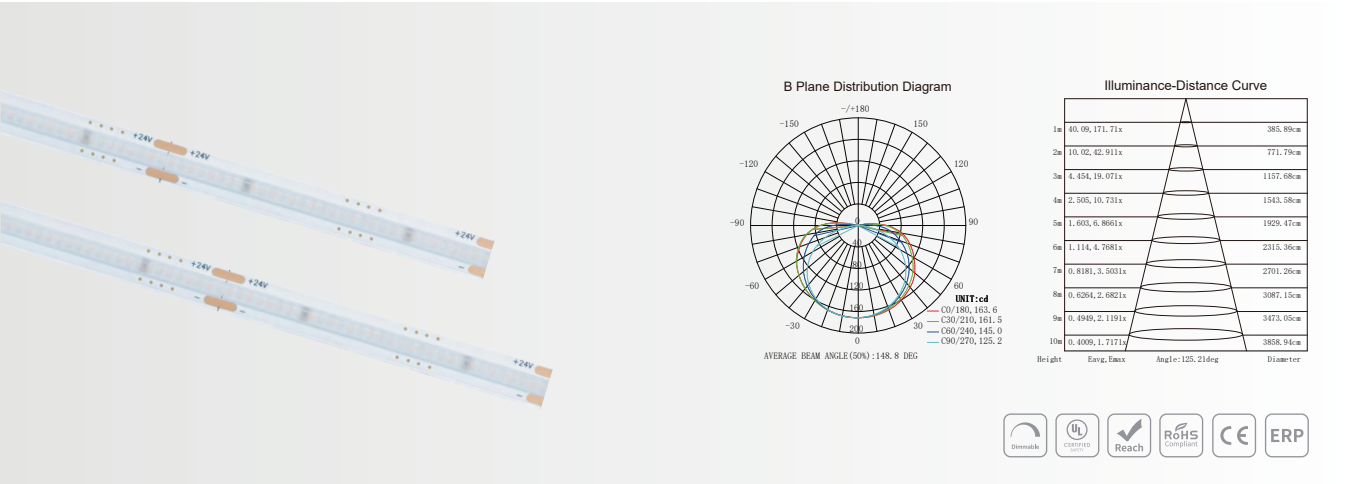
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24480T00-8A19	14.4	2700	90	1300	>90/>40		≤3	20(54/66/67/68)
CLT-INNF24480T00-8A19	14.4	3000	92	1330	>90/>40		≤3	20(54/66/67/68)
CLT-DNNF24480T00-8A19	14.4	4000	94	1360	>90/>40		≤3	20(54/66/67/68)
CLT-WNNF24480T00-8A19	14.4	6500	93	1340	>90/>40		≤3	20(54/66/67/68)



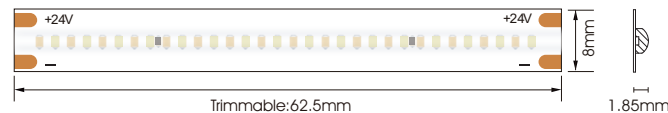
8W CRI90 CCT Tunable 512LED/m IP20 F

Electrical Data

Light Beads	: CSP
Number Led/M	: 512pcs
Power W/m±10%	: 8W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

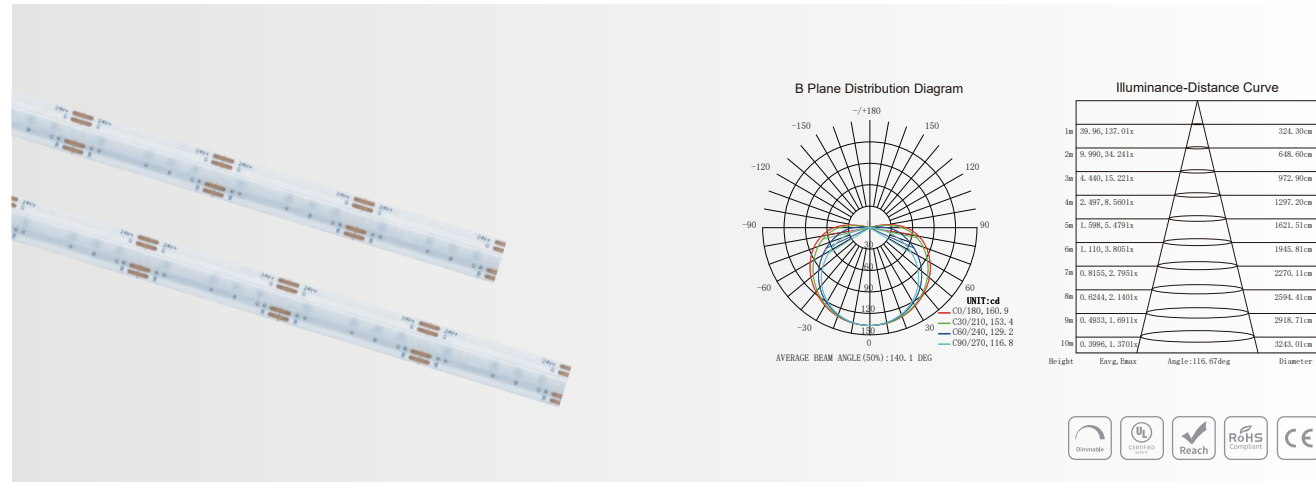
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-WINF24512T00-8A19	8	2700	97	780	>90/>40		≤3	20(54/66/67/68)
	8	6500	100	800	>90/>40		≤3	20(54/66/67/68)



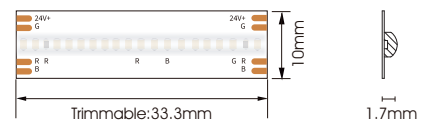
15W 540LED/m IP20 24V CSP RGB

Electrical Data

Light Beads	: CSP
Number Led/M	: 540pcs
Power W/m $\pm$ 10%	: 15W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 33.3mm

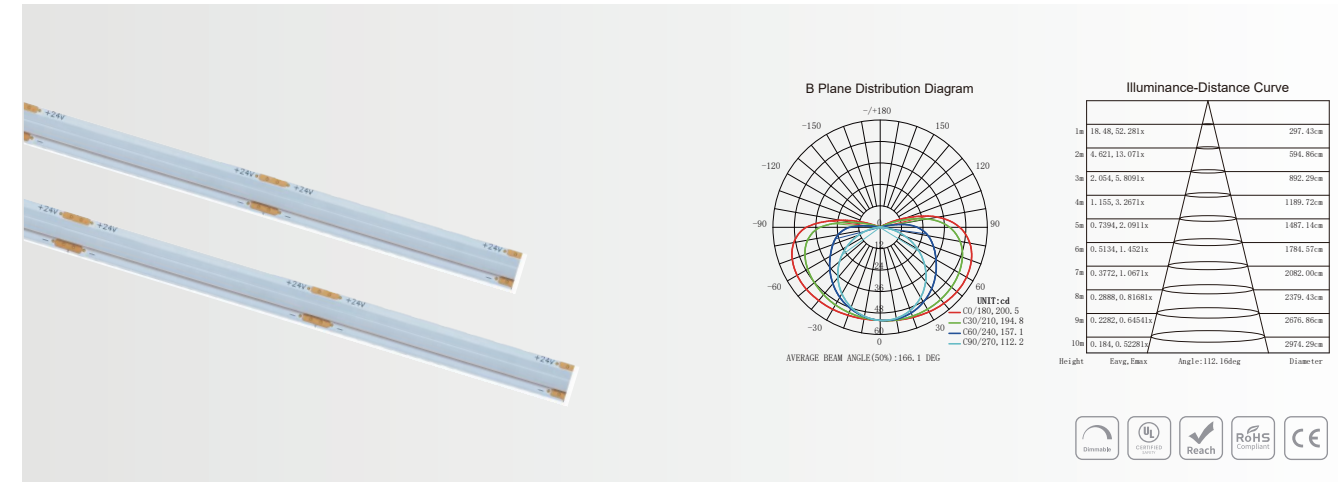
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24540T00-0A10	6	24	R	620-630	150	/	/	20
	4.5	24	G	520-530	340	/	/	20
	4.5	24	B	455-465	75	/	/	20
	15	24	RGB	/	550	/	/	20



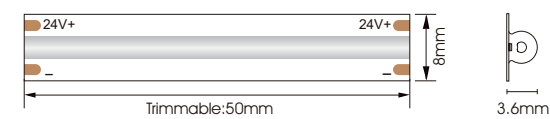
10W 280LED/m IP20 24V CSP PRO R/G/B Single color

Electrical Data

Light Beads	: CSP
Number Led/M	: 280pcs
Power W/m $\pm$ 10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

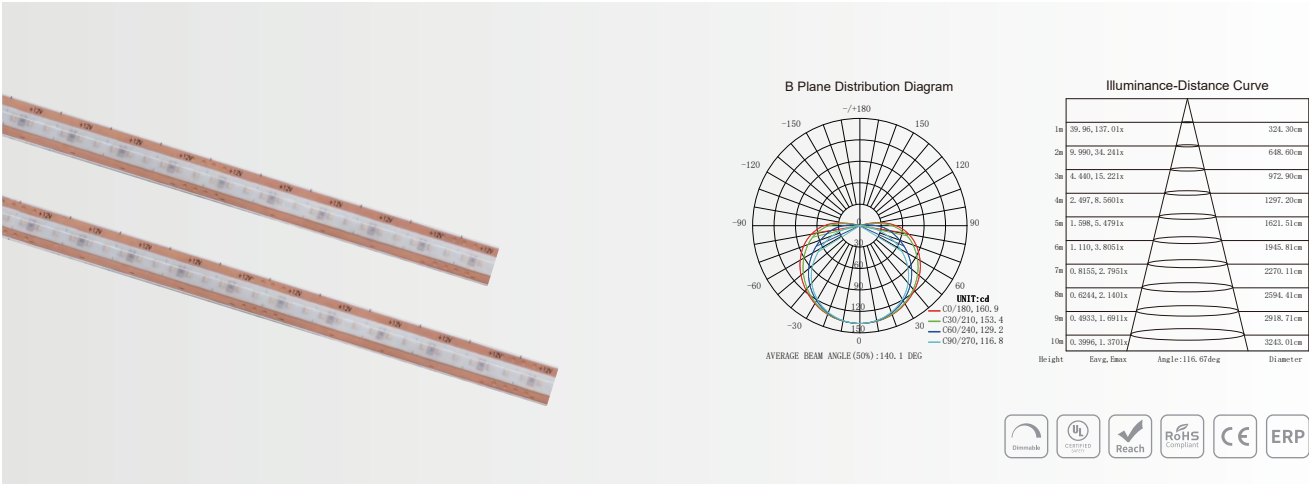
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-OUGF24280T00-8A19	10	24	R	620-640	220	/	/	20
CLT-GNGF24280T00-8A19	10	24	G	515-525	840	/	/	20
CLT-BNG F24280T00-8A19	10	24	B	450-470	160	/	/	20



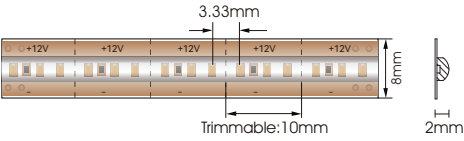
12V CSP Mini Cut G

Electrical Data

Light Beads	: CSP
Number Led/M	: 300pcs
Power W/m±10%	: 6W
Voltage	: 12V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 10mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF12300T09-8A19	6	2700	67	402	>90/>40		≤3	20(54/66/67/68)
CLT-INNF12300T09-8A19	6	3000	70	420	>90/>40		≤3	20(54/66/67/68)
CLT-DNNF12300T09-8A19	6	4000	70	420	>90/>40		≤3	20(54/66/67/68)

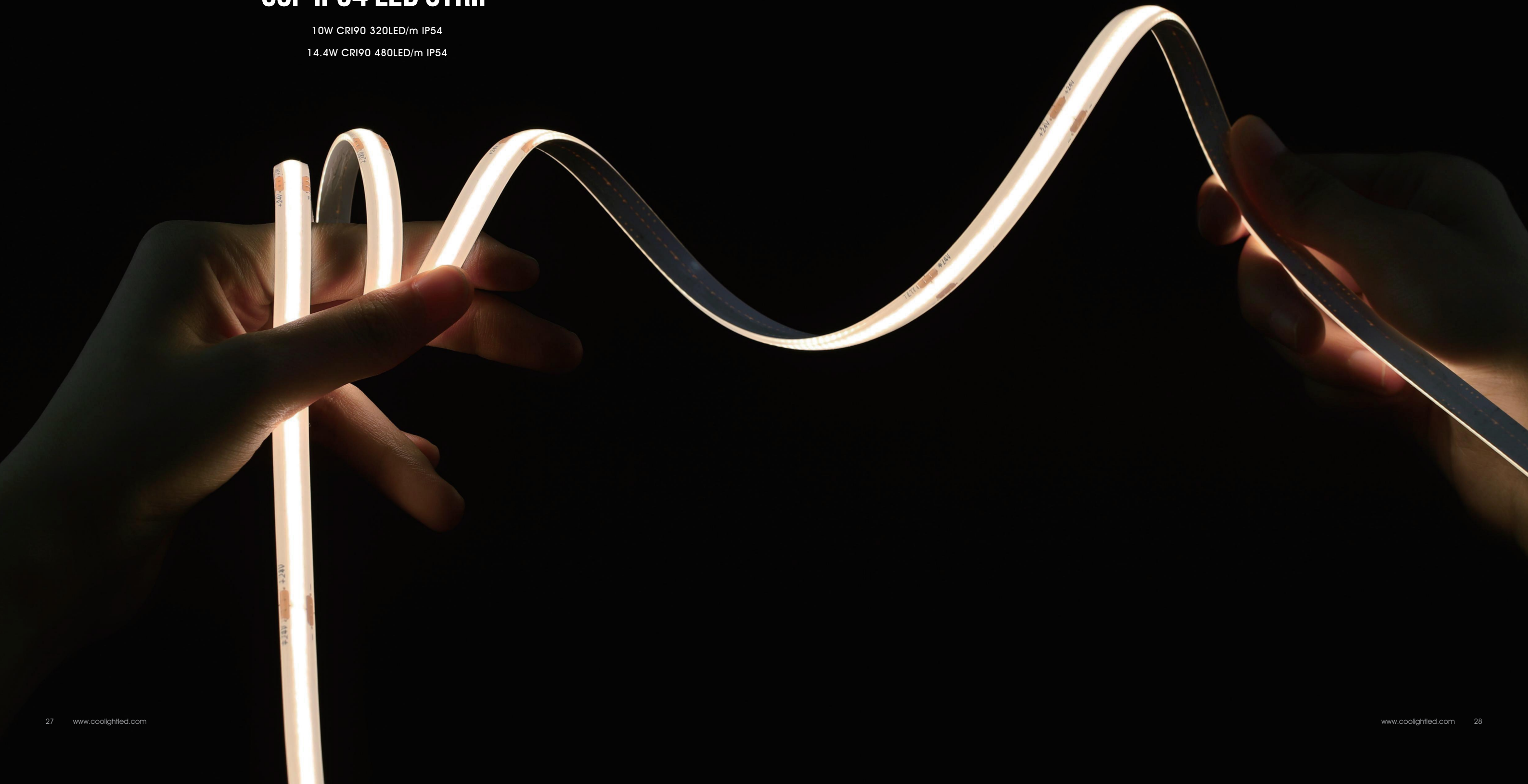
APPLICATION SCENARIOS

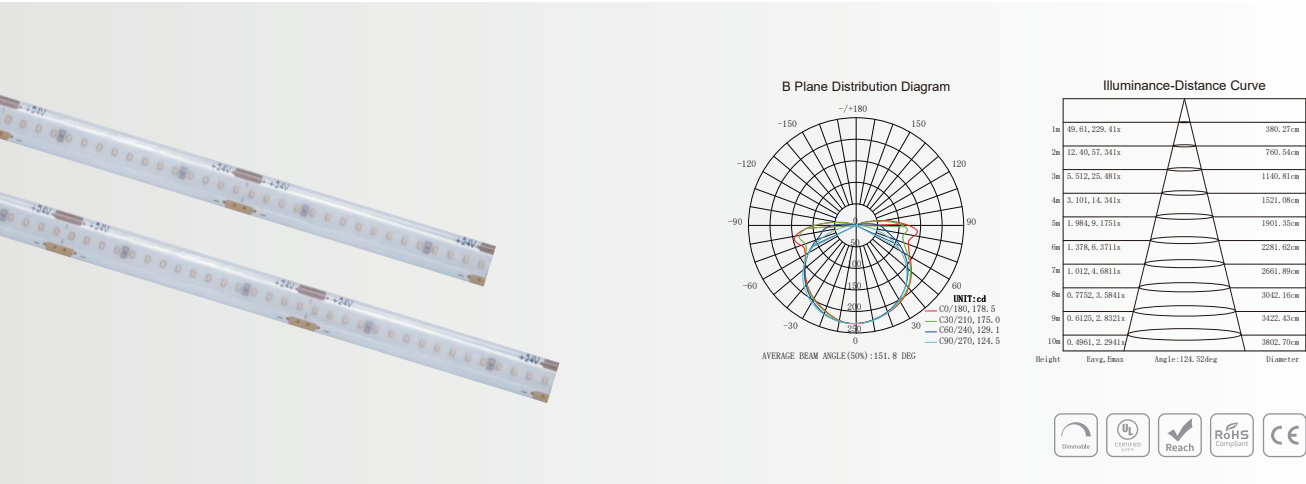
LEADING SERIES

CSP IP54 LED STRIP

10W CRI90 320LED/m IP54

14.4W CRI90 480LED/m IP54





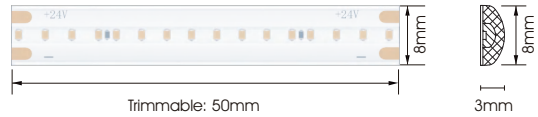
10W CRI90 320LED/m IP54

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

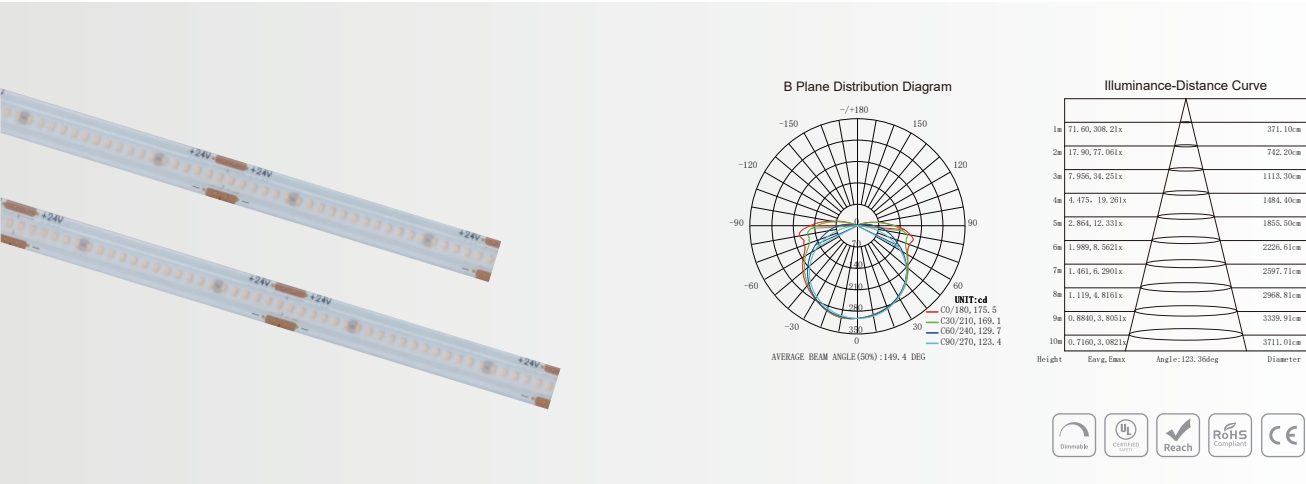
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNDF24320T00-8A19	10	2700	99	990	>90/>40	/	/	54(20/66/67/68)
CLT-INDF24320T00-8A19	10	3000	100	1000	>90/>40	/	/	54(20/66/67/68)
CLT-DNDF24320T00-8A19	10	4000	98	980	>90/>40	/	/	54(20/66/67/68)
CLT-WNDF24320T00-8A19	10	6500	101	1010	>90/>40	/	/	54(20/66/67/68)



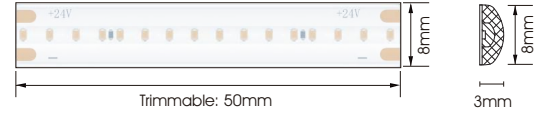
14.4W CRI90 480LED/m IP54

Electrical Data

Light Beads	: CSP
Number Led/M	: 480pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



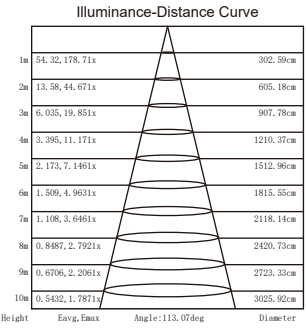
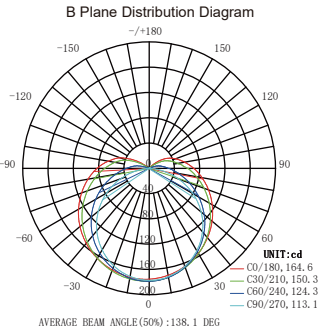
Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNDF24480T00-8A19	14.4	2700	91	1320	>90/>40	/	/	54(20/66/67/68)
CLT-INDF24480T00-8A19	14.4	3000	92	1330	>90/>40	/	/	54(20/66/67/68)
CLT-DNDF24480T00-8A19	14.4	4000	92	1325	>90/>40	/	/	54(20/66/67/68)
CLT-WNDF24480T00-8A19	14.4	6000	92	1330	>90/>40	/	/	54(20/66/67/68)

LEADING SERIES

CSP IP66 LED STRIP

CSP Curve Top View Neon Light



CSP Curve Top View Neon Light

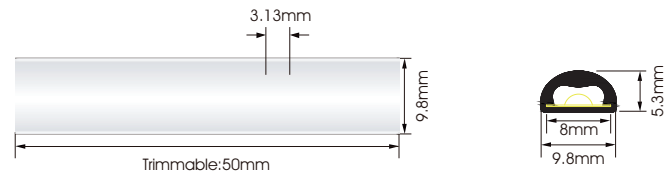
Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101010	Direct cable end cap	
103305101008	Sealing end cap	

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNHF24320T00-8A19	10	2700	82	820	>90/>40	/	/	66
CLT-INHF24320T00-8A19	10	3000	86	860	>90/>40	/	/	66
CLT-DNHF24320T00-8A19	10	4000	84	840	>90/>40	/	/	66
CLT-WNHF24320T00-8A19	10	6500	82	820	>90/>40	/	/	66

LEADING SERIES

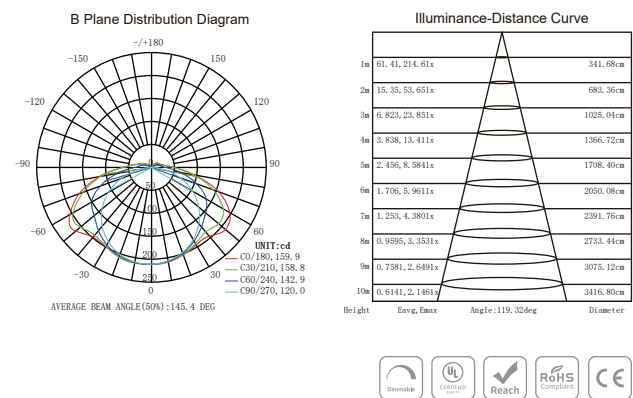
CSP IP68 LED STRIP

10W CRI90 320LED/m IP68

14.4W CRI90 480LED/m IP68

15W 540LED/m IP68 24V CSP RGB





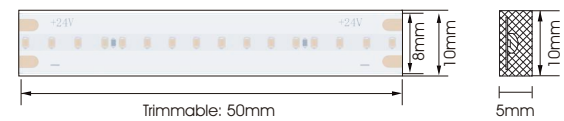
10W CRI90 320LED/m IP68

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m $\pm$ 10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

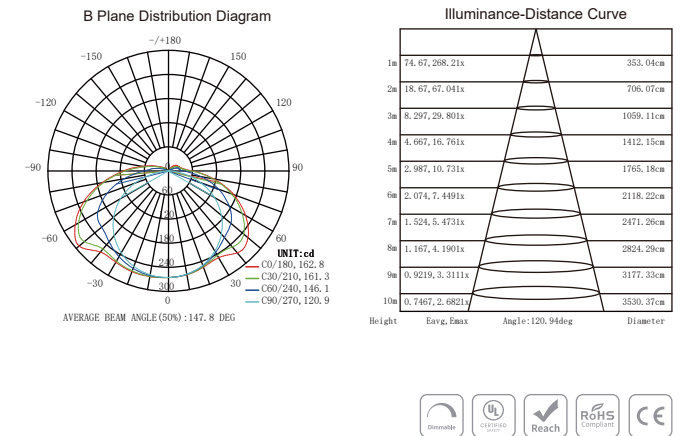
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNSF24320T00-8A19	10	2700	96	960	>90/>40	/	/	68(20/54/66/67)
CLT-INSF24320T00-8A19	10	3000	99	990	>90/>40	/	/	68(20/54/66/67)
CLT-DNSF24320T00-8A19	10	4000	98	980	>90/>40	/	/	68(20/54/66/67)
CLT-WNSF24320T00-8A19	10	6500	99	990	>90/>40	/	/	68(20/54/66/67)



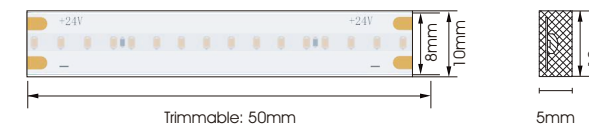
14.4W CRI90 480LED/m IP68

Electrical Data

Light Beads	: CSP
Number Led/M	: 480pcs
Power W/m $\pm$ 10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

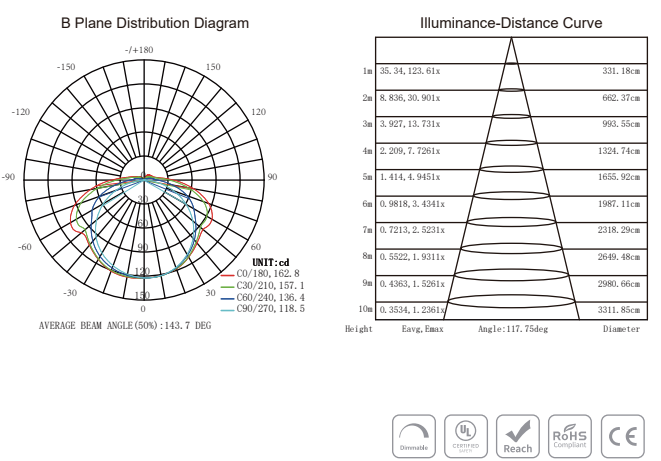
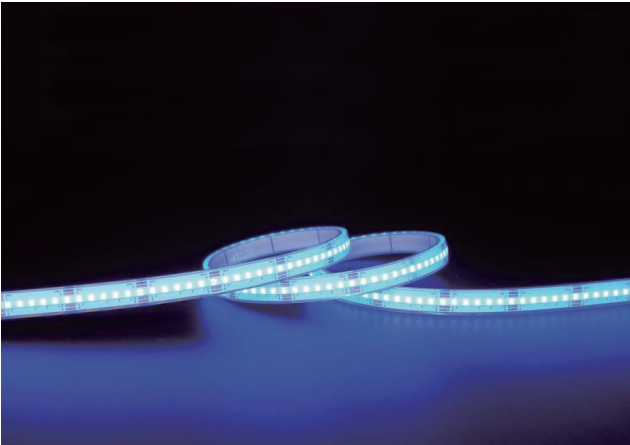
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNSF24480T00-8A19	14.4	2700	90	1300	>90/>40	/	/	68(20/54/66/67)
CLT-INSF24480T00-8A19	14.4	3000	92	1330	>90/>40	/	/	68(20/54/66/67)
CLT-DNSF24480T00-8A19	14.4	4000	91	1320	>90/>40	/	/	68(20/54/66/67)
CLT-WNSF24480T00-8A19	14.4	6000	92	1330	>90/>40	/	/	68(20/54/66/67)



15W 540LED/m IP68 24V CSP RGB

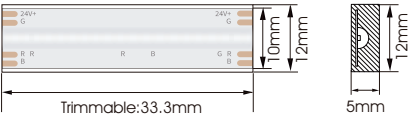
Electrical Data

Light Beads	: CSP
Number Led/M	: 540pcs
Power W/m±10%	: 15W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 33.3mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102001	Direct cable end cap	
103305101001	Sealing end cap	
103405102002	Silicon clip	

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2SF24540T00-0A20	6	24	R	620-630	145	/	/	68(20/54/66/67)
	4.5	24	G	520-530	335	/	/	68(20/54/66/67)
	4.5	24	B	455-465	70	/	/	68(20/54/66/67)
	15	24	RGB	/	545	/	/	68(20/54/66/67)

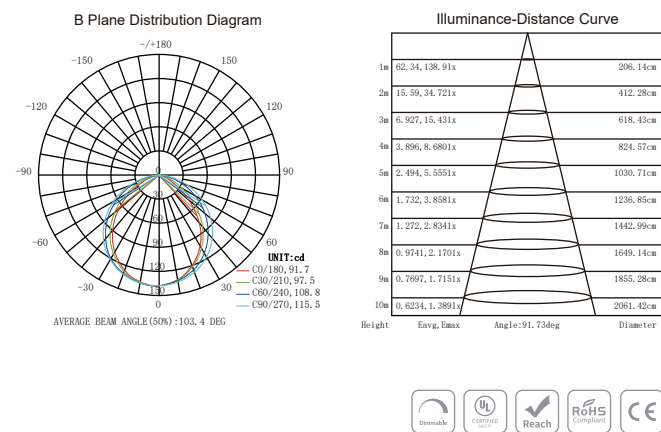
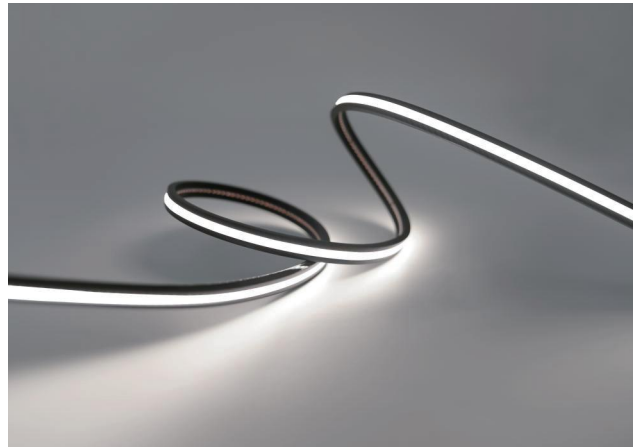


LEADING SIRIES

CSP XRIBBON IP68 LED STRIP

10W CRI90 320LED/M IP68





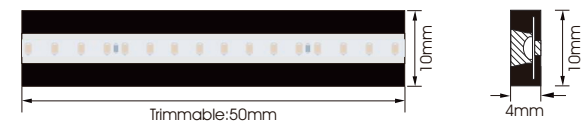
10W CRI90 320LED/m IP68

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m $\pm$ 10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

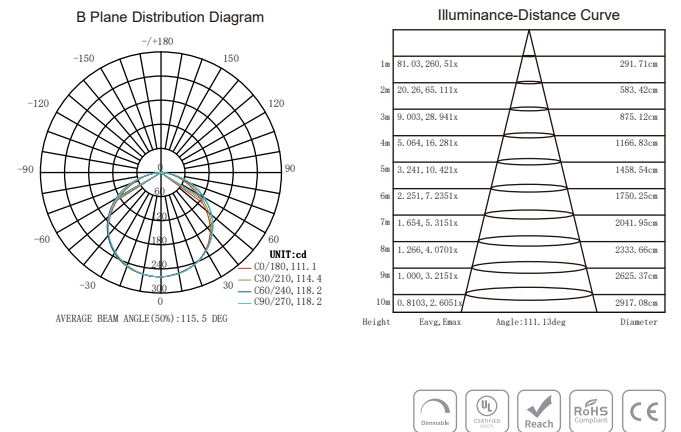
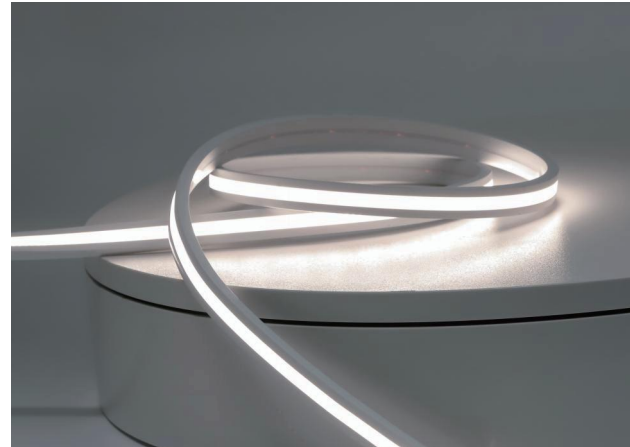
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNMF24320T00-8A19	10	2700	30	300	>90/>40	/	/	68
CLT-INMF24320T00-8A19	10	3000	34	340	>90/>40	/	/	68
CLT-DNMF24320T00-8A19	10	4000	32	320	>90/>40	/	/	68
CLT-WNMF24320T00-8A19	10	6500	31	310	>90/>40	/	/	68



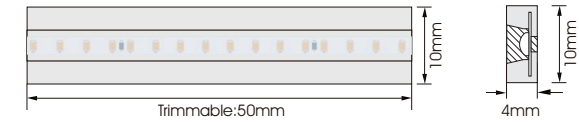
10W CRI90 320LED/m IP68

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m $\pm$ 10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

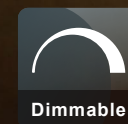
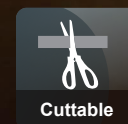
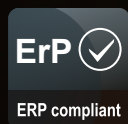
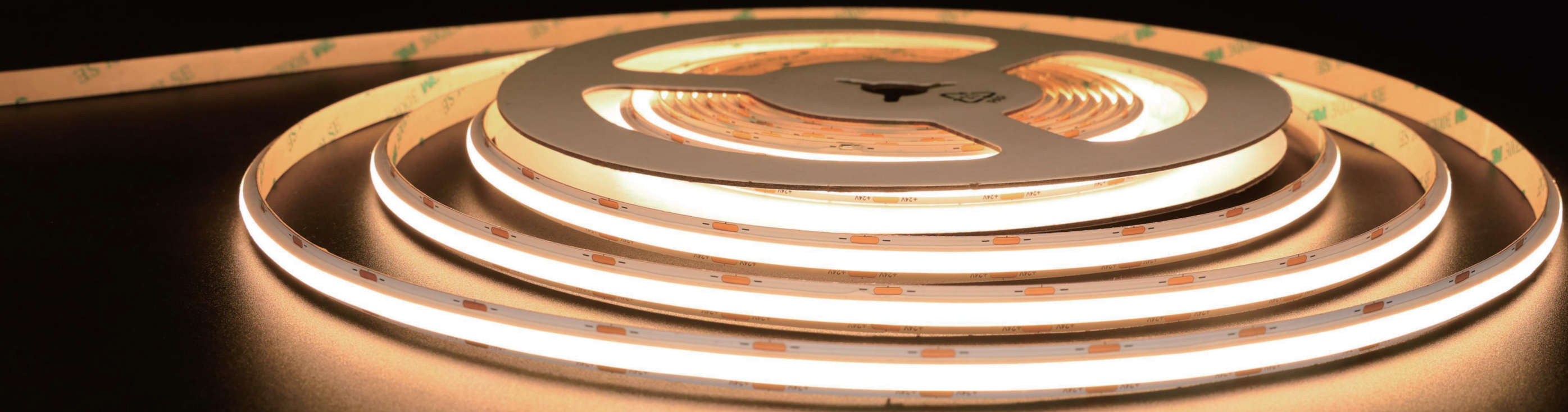
Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNMF24320T00-8A19	10	2700	60	600	>90/>40	/	/	68
CLT-INMF24320T00-8A19	10	3000	66	660	>90/>40	/	/	68
CLT-DNMF24320T00-8A19	10	4000	62	620	>90/>40	/	/	68
CLT-WNMF24320T00-8A19	10	6000	61	610	>90/>40	/	/	68

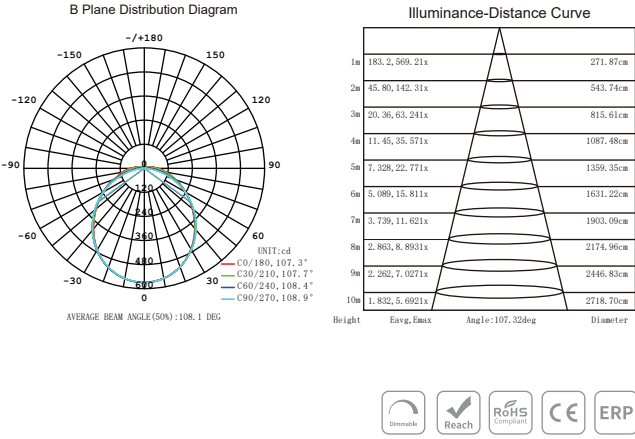


APPLICATION SCENARIOS

SOB LED STRIP

14.4W CRI80 280LED/m IP20





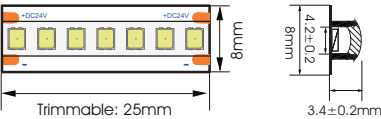
14.4W CRI80 280LED/m IP20

Electrical Data

Light Beads	: 2025
Number Led/M	: 280pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length(10% voltage drop)	: 5m
Cut Size	: 25mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24280T25-8A28	14.4	2700	108	1555	>80/>0	/	/	20
CLT-INNF24280T25-8A28	14.4	3000	112	1613	>80/>0	/	/	20
CLT-DNNF24280T25-8A28	14.4	4000	112	1613	>80/>0	/	/	20
CLT-WNNF24280T25-8A28	14.4	6500	108	1555	>80/>0	/	/	20



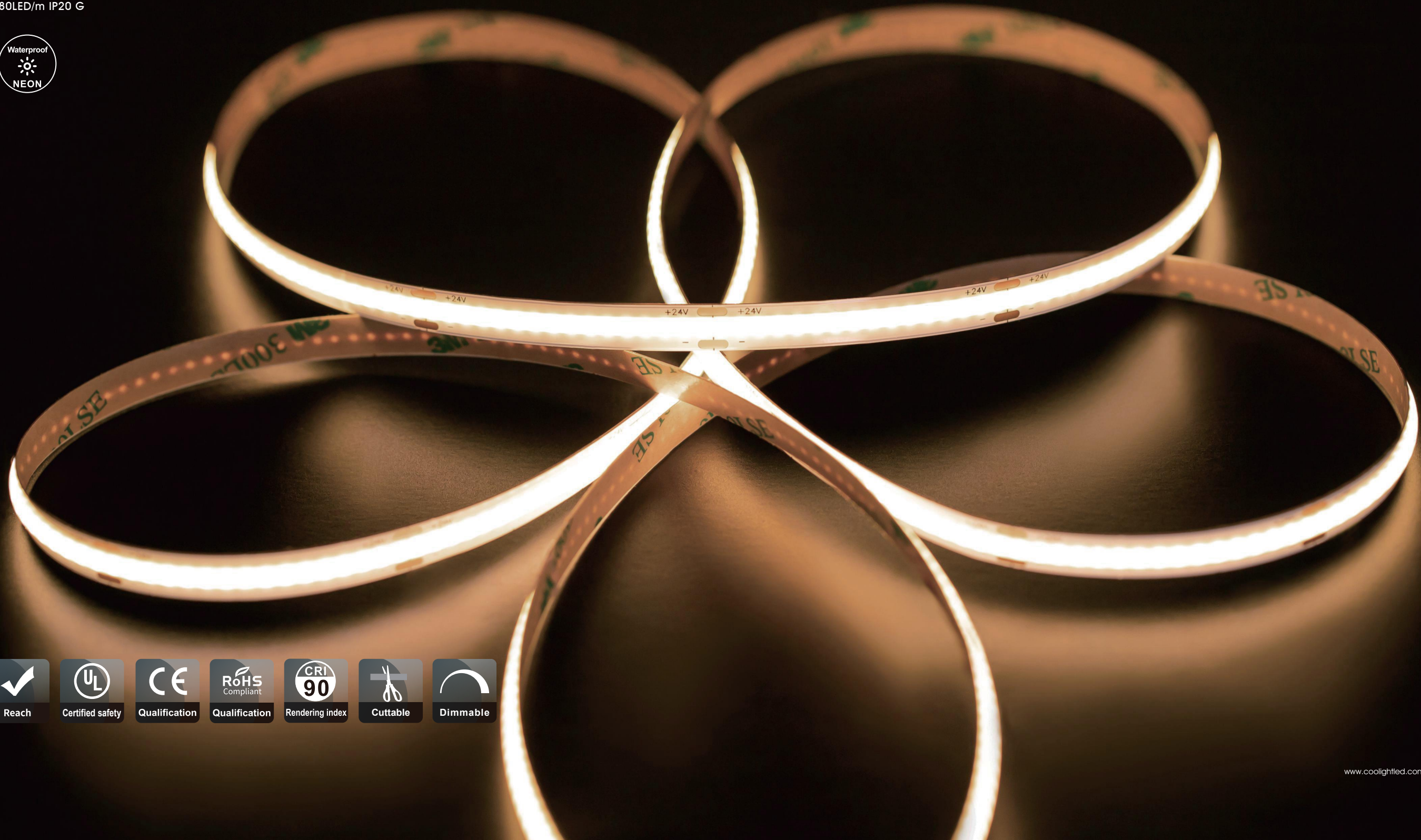
APPLICATION SCENARIOS

BEYOND SERIES

COB LED STRIP

10W CRI90 320LED/m IP20 G

10W CRI90 480LED/m IP20 G





ErP
ERP compliant



Reach



UL
Certified safety



CE
Qualification



RoHS
Compliant
Qualification



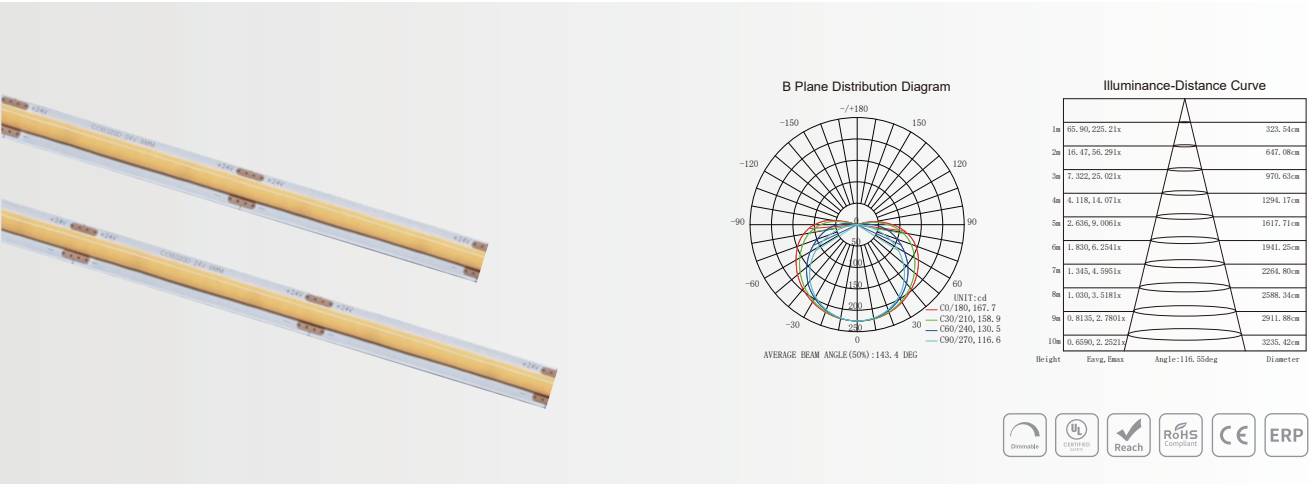
CRI
90
Rendering index



Cuttable



Dimmable



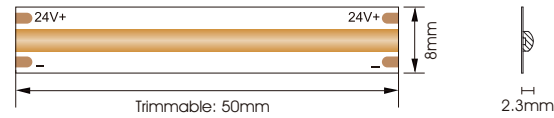
10W CRI90 320LED/m IP20 G

Electrical Data

Light Beads	: COB
Number Led/M	: 320pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length(10% voltage drop)	: 5m
Cut Size	: 50mm

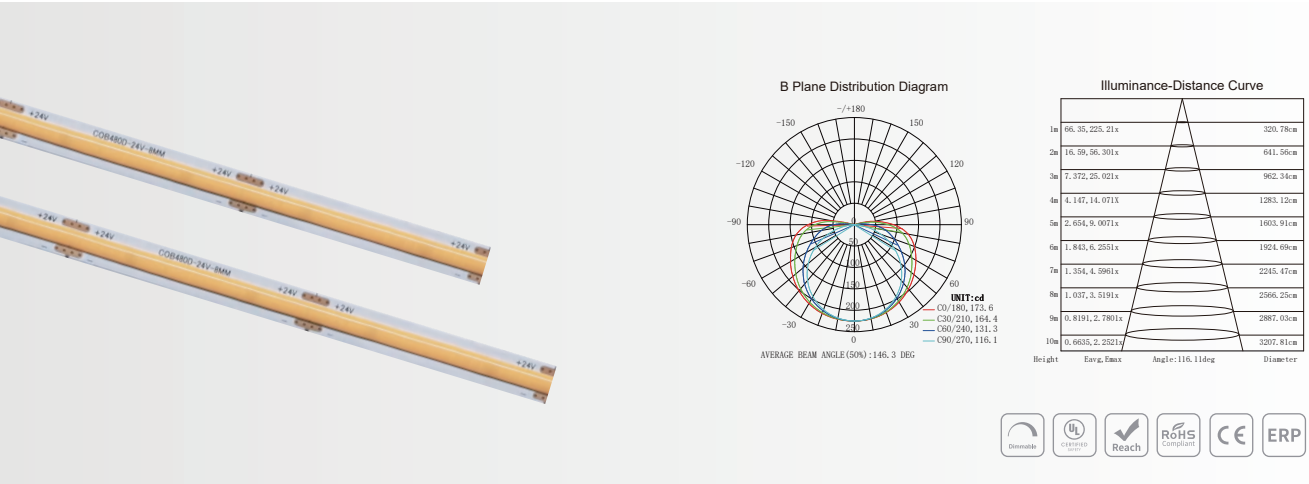
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24320T00-8A29	10	2700	77	770	>90/>40		≤5	20/66
CLT-INNF24320T00-8A29	10	3000	80	800	>90/>40		≤5	20/66
CLT-DNNF24320T00-8A29	10	4000	90	900	>90/>40		≤5	20/66
CLT-WNNF24320T00-8A29	10	6500	90	900	>90/>40		≤5	20/66



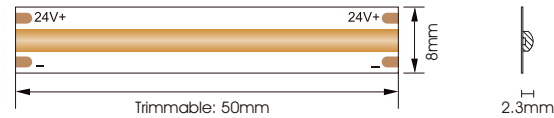
10W CRI90 480LED/m IP20 G

Electrical Data

Light Beads	: COB
Number Led/M	: 480pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length(10% voltage drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24480T00-8A29	10	2700	77	770	>90/>40		≤5	20/66
CLT-INNF24480T00-8A29	10	3000	80	800	>90/>40		≤5	20/66
CLT-DNNF24480T00-8A29	10	4000	90	900	>90/>40		≤5	20/66
CLT-WNNF24480T00-8A29	10	6500	90	900	>90/>40		≤5	20/66



APPLICATION SCENARIOS

1612 SERIES LED STRIP

9.6W CRI80 280LED/m IP20 F (Ultra-narrow)

9.6W CRI80 280LED/m IP20 F

9.6W CRI80 364LED/m IP20 F

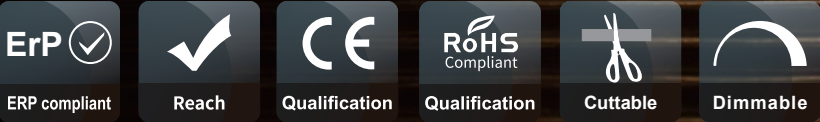
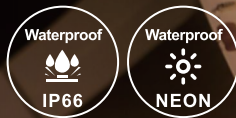
19.2W CRI80 364LED/m IP20 F

19.2W CRI80 560LED/m IP20 F

19.2W CRI80 CCT Tunable 560LED/m IP20 F

15W 540LED/m 24V RGB

20W 720LED/m 24V RGB

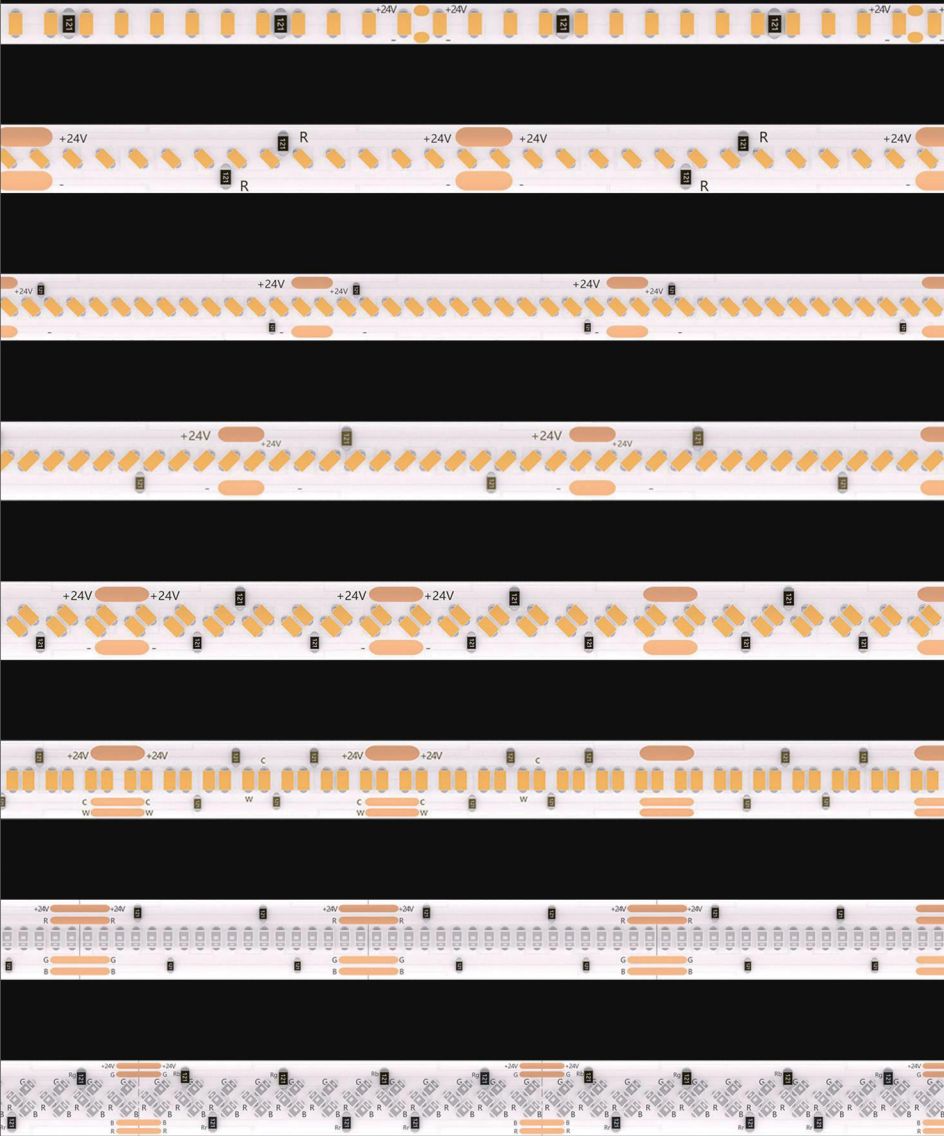


1612 Series LED Strip – Design Overview

The Coolight newly launched 1612 Series LED strips are designed around the core concept of “full-scenario adaptability with enhanced luminous efficacy.”

This series covers multiple PCB widths (4 mm, 8 mm, and 10 mm) and offers a diversified range of configurations, including single white, tunable white, and RGB options.

Focused on scenario-based lighting applications, the 1612 Series achieves an optimal balance between spatial adaptability, lighting performance, and functional versatility, providing a comprehensive one-stop lighting solution for residential decoration, commercial displays, and intelligent lighting environments.



280LED/m 4mm

280LED/m 8mm

360LED/m 8mm

360LED/m 10mm

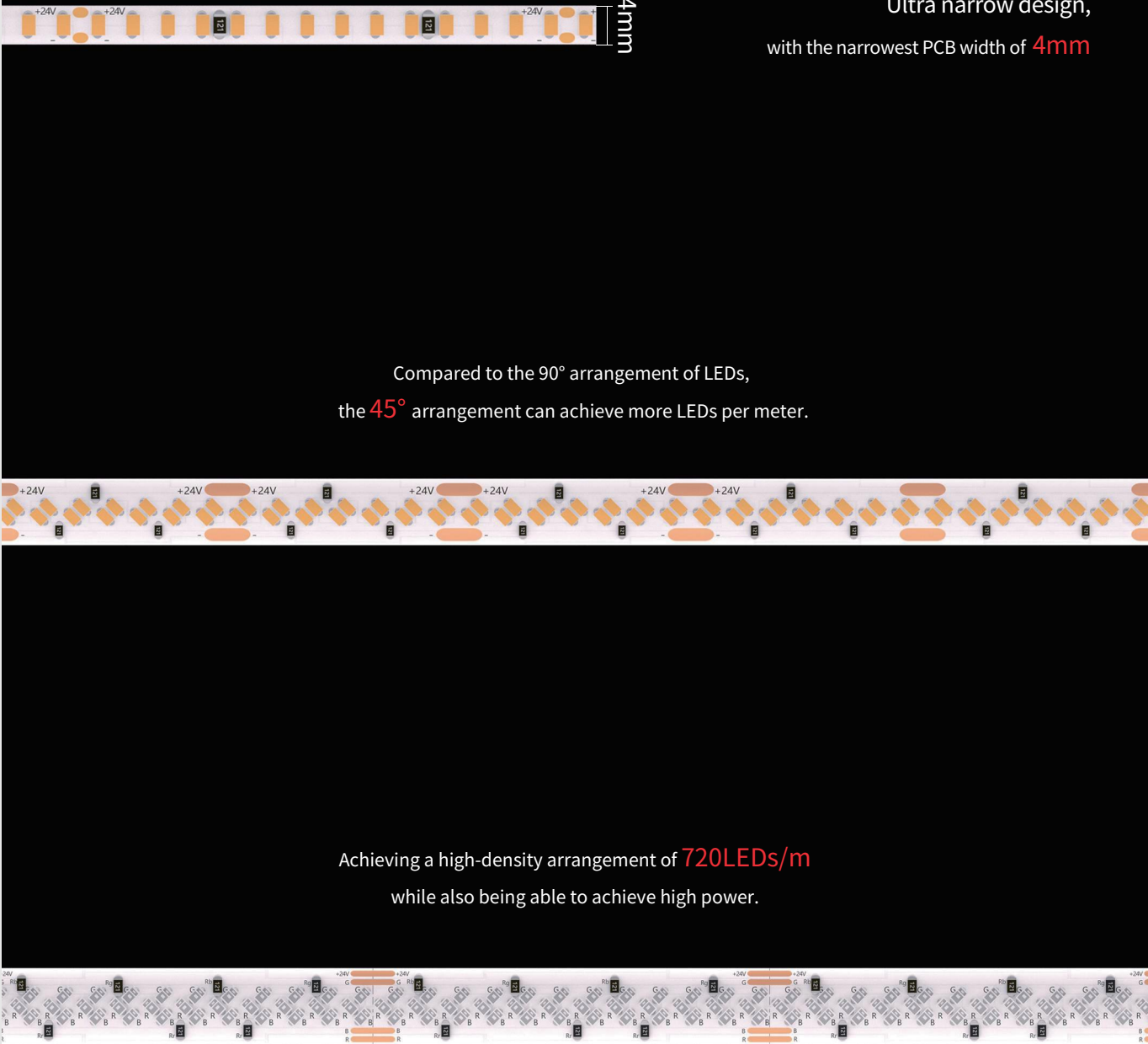
560LED/m 10mm

560LED/m CCT

540LED/m RGB

720LED/m RGB

Product Features

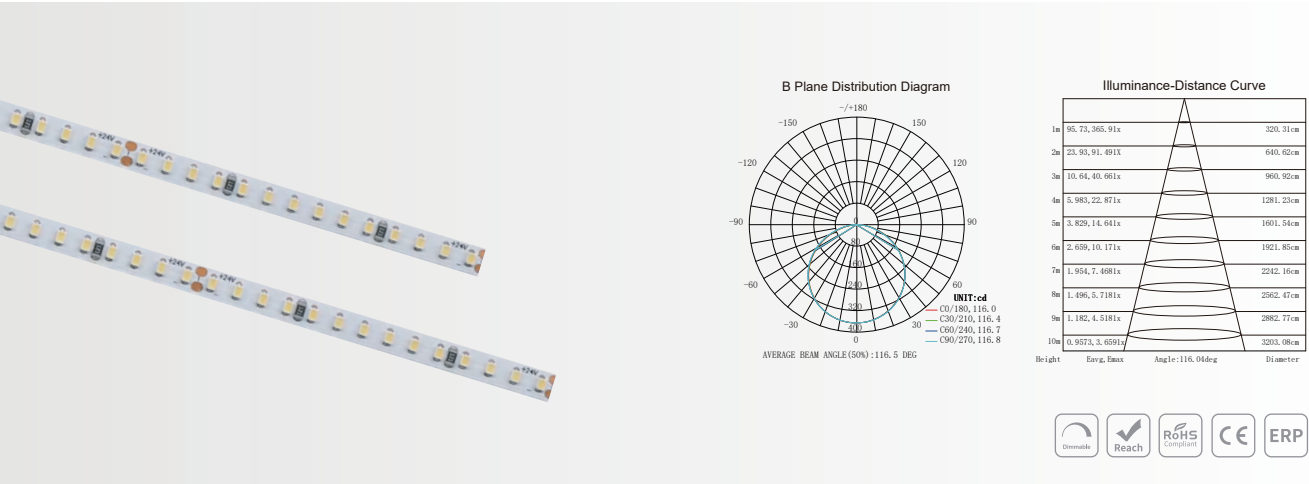


4mm

Ultra narrow design,
with the narrowest PCB width of 4mm

Compared to the 90° arrangement of LEDs,
the 45° arrangement can achieve more LEDs per meter.

Achieving a high-density arrangement of 720LEDs/m
while also being able to achieve high power.



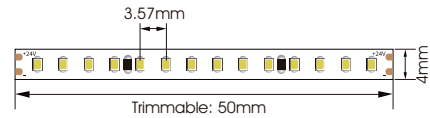
9.6W CRI80 280LED/m IP20 F Ultra-narrow

Electrical Data

Light Beads	: 1612
Number Led/M	: 280pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 4mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

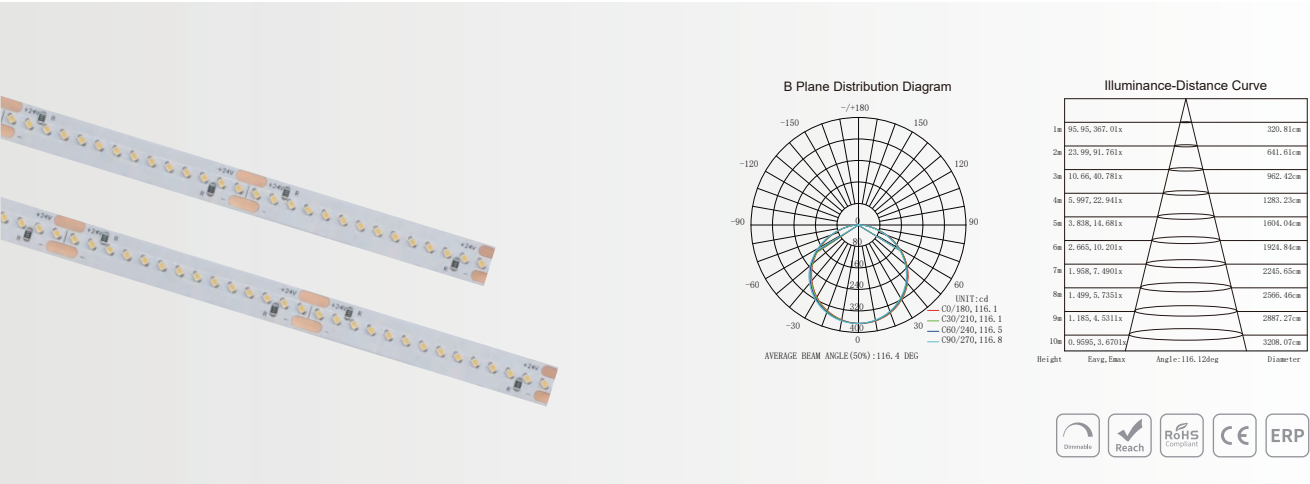
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24280T12-BA28	9.6	2700	105	1005	>80/>0	F	≤6	20/66
CLT-INNF24280T12-BA28	9.6	3000	108	1035	>80/>0	F	≤6	20/66
CLT-DNNF24280T12-BA28	9.6	4000	112	1075	>80/>0	F	≤6	20/66
CLT-WNNF24280T12-BA28	9.6	6500	112	1075	>80/>0	F	≤6	20/66



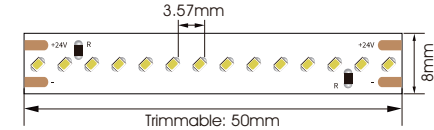
9.6W CRI80 280LED/m IP20 F

Electrical Data

Light Beads	: 1612
Number Led/M	: 280pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

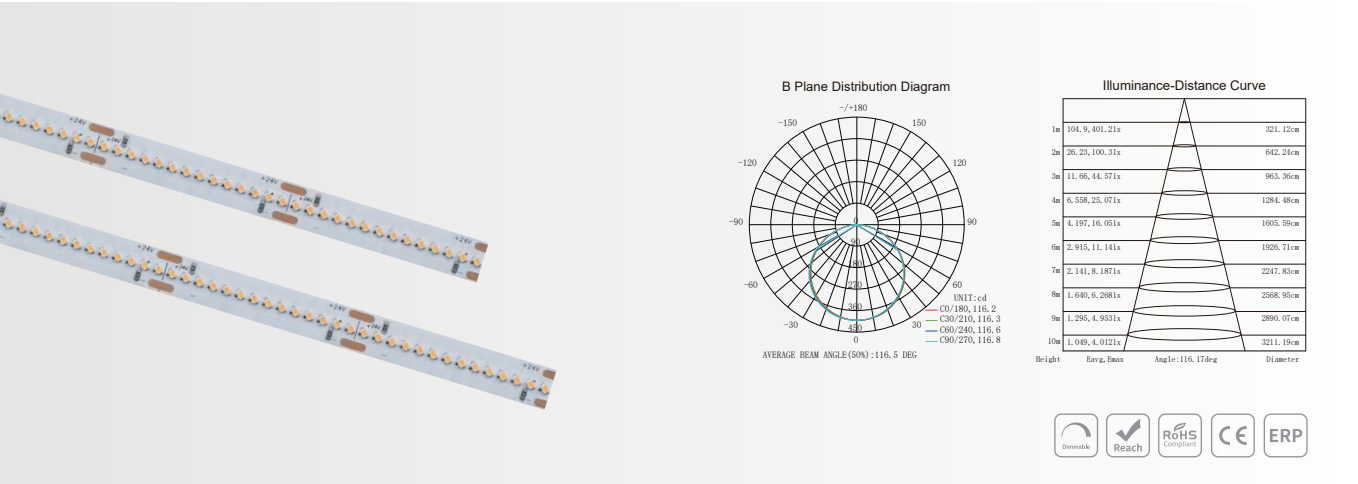
Standards / Normative Requirements

Protection class	: EN 62031 IEC 60598-1
Safety Requirements	: EN 55015
EMC / radio disturbance characteristics	: Yes
REACH	: Yes
ROHS	: Yes
CE	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24280T12-8A28	9.6	2700	105	1005	>80/>0	F	≤6	20/66
CLT-INNF24280T12-8A28	9.6	3000	108	1035	>80/>0	F	≤6	20/66
CLT-DNNF24280T12-8A28	9.6	4000	112	1075	>80/>0	F	≤6	20/66
CLT-WNNF24280T12-8A28	9.6	6500	112	1075	>80/>0	F	≤6	20/66



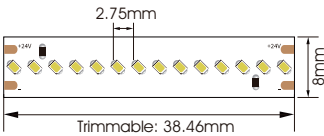
9.6W CRI80 364LED/m IP20 F

Electrical Data

Light Beads	: 1612
Number Led/M	: 364pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 38.46mm

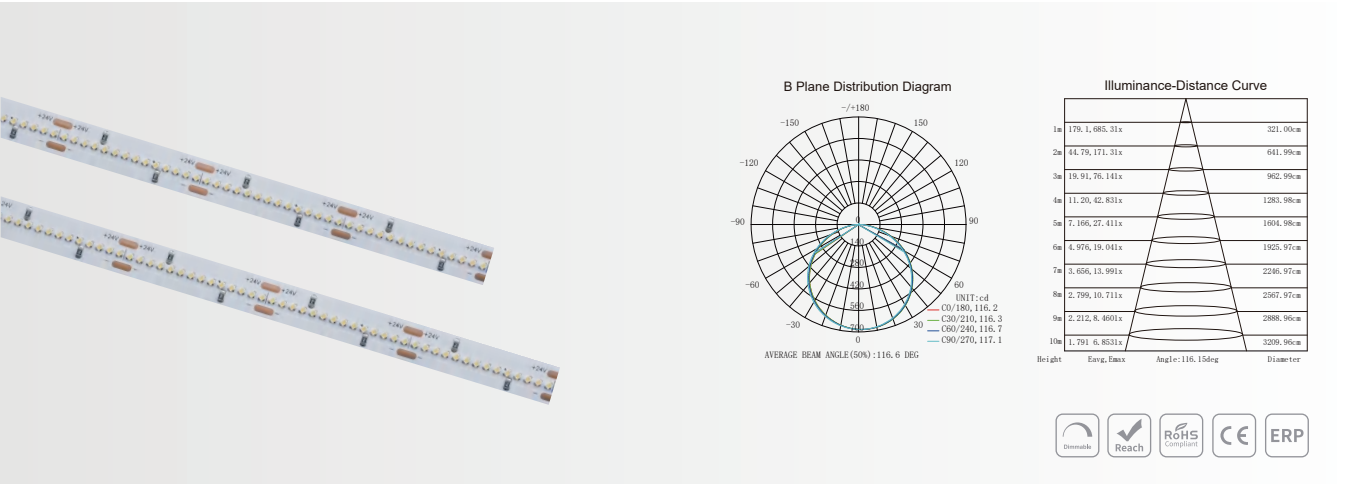
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24364T12-8A28	9.6	2700	102	980	>80/>0	F	≤6	20/66
CLT-INNF24364T12-8A28	9.6	3000	105	1005	>80/>0	F	≤6	20/66
CLT-DNNF24364T12-8A28	9.6	4000	110	1055	>80/>0	F	≤6	20/66
CLT-WNNF24364T12-8A28	9.6	6500	110	1055	>80/>0	F	≤6	20/66



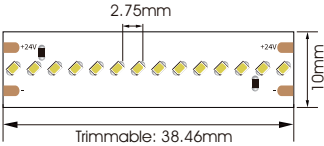
19.2W CRI80 364LED/m IP20 F

Electrical Data

Light Beads	: 1612
Number Led/M	: 364pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 38.46mm

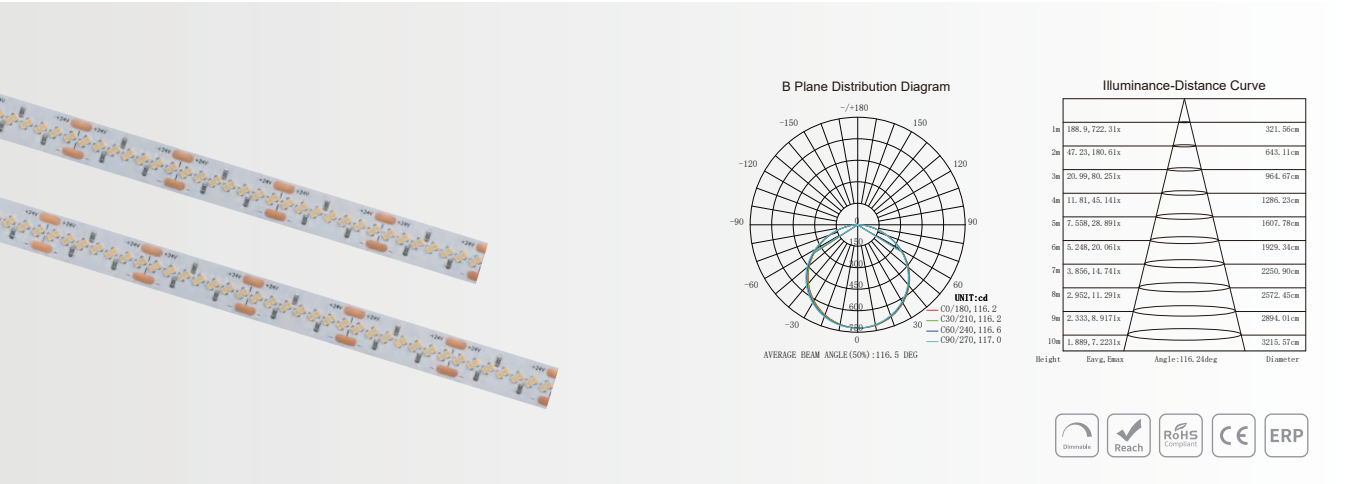
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24364T12-0A38	19.2	2700	99	1900	>80/>0	F	≤6	20/66
CLT-INNF24364T12-0A38	19.2	3000	102	1955	>80/>0	F	≤6	20/66
CLT-DNNF24364T12-0A38	19.2	4000	105	2015	>80/>0	F	≤6	20/66
CLT-WNNF24364T12-0A38	19.2	6500	105	2015	>80/>0	F	≤6	20/66



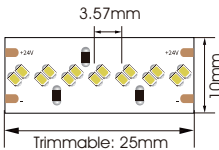
19.2W CRI80 560LED/m IP20 F

Electrical Data

Light Beads	: 1612
Number Led/M	: 560pcs
Power W/m ± 10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 25mm

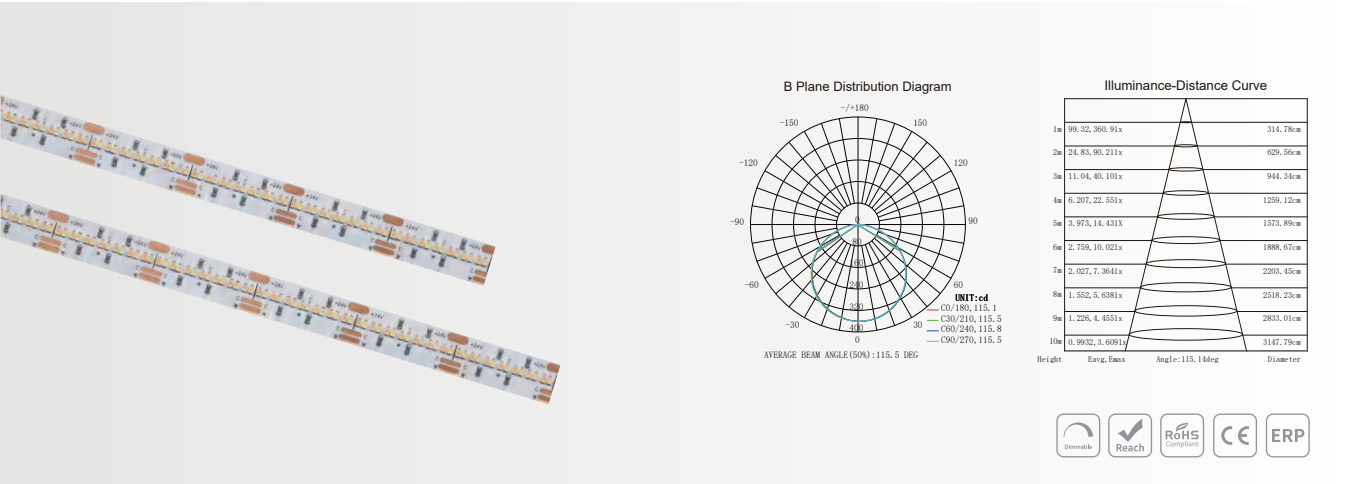
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24560T12-0A28	19.2	2700	105	2015	>80/>0	F	≤ 6	20/66
CLT-INNF24560T12-0A28	19.2	3000	108	2070	>80/>0	F	≤ 6	20/66
CLT-DNNF24560T12-0A28	19.2	4000	117	2245	>80/>0	F	≤ 6	20/66
CLT-WNNF24560T12-0A28	19.2	6500	117	2245	>80/>0	F	≤ 6	20/66



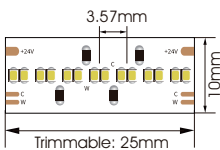
19.2W CRI80 CCT Tunable 560LED/m IP20 F

Electrical Data

Light Beads	: 1612
Number Led/M	: 560pcs
Power W/m ± 10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 25mm

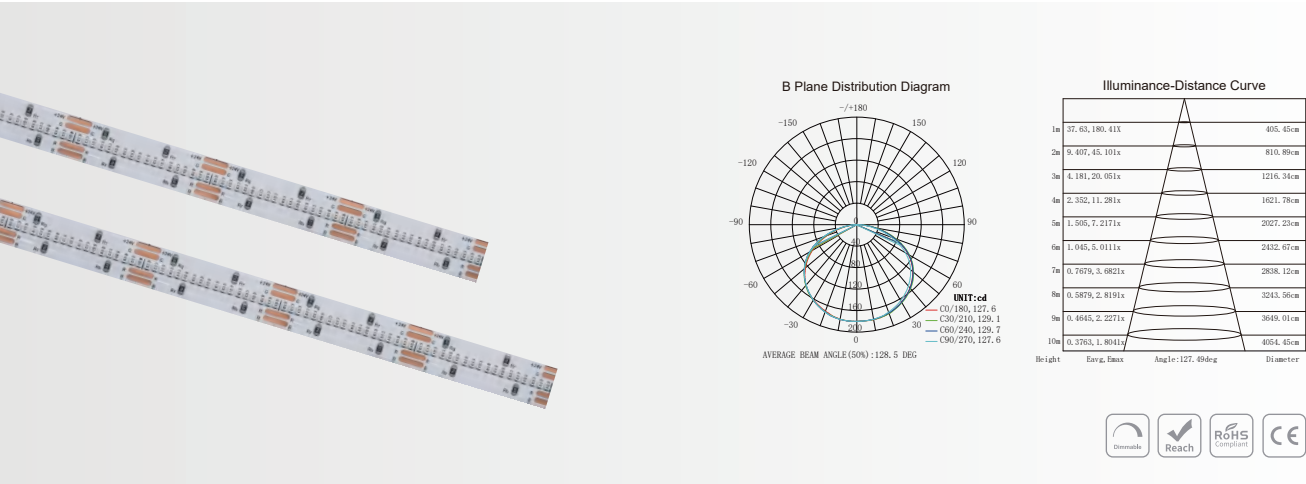
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WINF24560T12-0A18	9.6	2700	106	1015	>80/>0	F	≤ 6	20/66
	9.6	6000	108	1035	>80/>0	F	≤ 6	20/66
	19.2	2700+6500	105	2015	>80/>0	F	≤ 6	20/66



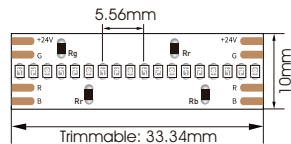
15W 540LED/m 24V RGB

Electrical Data

Light Beads	: 1612
Number Led/M	: 540pcs
Power W/m±10%	: 15W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 33.34mm

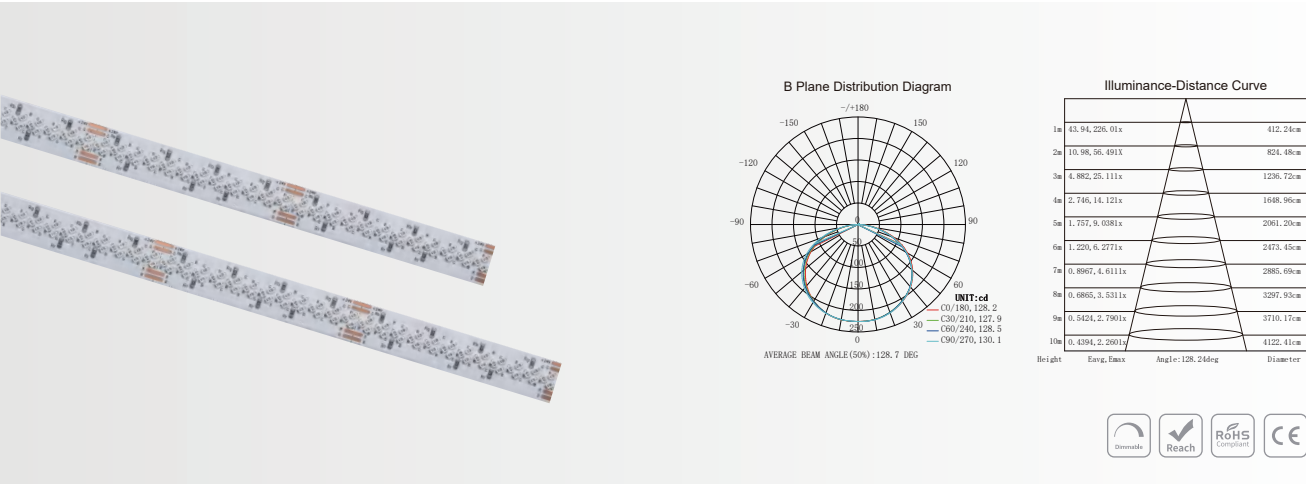
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24540T12-0A20	6	24	R	625-635	120	/	/	20/66
	4.5	24	G	520-530	400	/	/	20/66
	4.5	24	B	455-465	70	/	/	20/66
	15	24	RGB	/	570	/	/	20/66



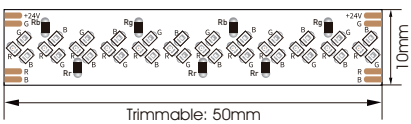
20W 720LED/m 24V RGB

Electrical Data

Light Beads	: 1612
Number Led/M	: 720pcs
Power W/m±10%	: 20W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24720T12-0A50	8	24	R	625-635	160	/	/	20/66
	6	24	G	520-530	500	/	/	20/66
	6	24	B	455-465	90	/	/	20/66
	20	24	RGB	/	680	/	/	20/66



APPLICATION SCENARIOS

BLOOM SERIES

2835 HIGH EFFICIENCY LED STRIP

- 4.5W CRI80 90LED/m IP20 B/C
- 9W CRI80 180LED/m IP20 B/C
- 4.5W CRI90 90LED/m IP20 C
- 9W CRI90 180LED/m IP20 C
- 4.8W CRI80 64LED/m IP20 E
- 9.6W CRI80 80LED/m IP20 E
- 9.6W CRI80 128LED/m IP20 E
- 14.4W CRI80 128LED/m IP20 E
- 14.4W CRI80 160LED/m IP20 E
- 19.2W CRI80 160LED/m IP20 E
- 4.8W CRI90 64LED/m IP20 E/F
- 9.6W CRI90 80LED/m IP20 E/F
- 9.6W CRI90 128LED/m IP20 E/F
- 14.4W CRI90 128LED/m IP20 E/F
- 14.4W CRI90 160LED/m IP20 E/F
- 19.2W CRI90 160LED/m IP20 F
- 12V/24V Mini Cut E/F
- 24V DIM TO WARM F
- 24V 9.6W CCT Tunable F (2 Cable Tech)
- 12V 14.4W CCT Tunable F (3 Cable Tech)
- 24V 14.4W CCT Tunable F (3 Cable Tech)
- 12V 19.2W CCT Tunable F (3 Cable Tech)
- 24V 19.2W CCT Tunable F (3 Cable Tech)
- 28.8W CRI80 256LED/m IP20 E (Double-row High-lumen)



ErP ERP compliant

Reach

Certified safety

Qualification

RoHS Compliant Qualification

Cuttable

Dimmable

80 LM

2835 High-Efficiency LED Strip Design Description

Using 24V as an example, a conventional circuit typically consists of 6 LEDs connected in series with a resistor (R). The resistor R dissipates the voltage difference between the total forward voltage of the 6 LEDs and 24V. Therefore, the power consumption of each lit group includes not only the LED power but also the power dissipated by the resistor.

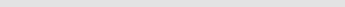
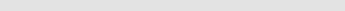
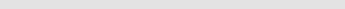
Luminous Efficacy (LM/W) = Luminous Flux (LM) / Electric Power (W)

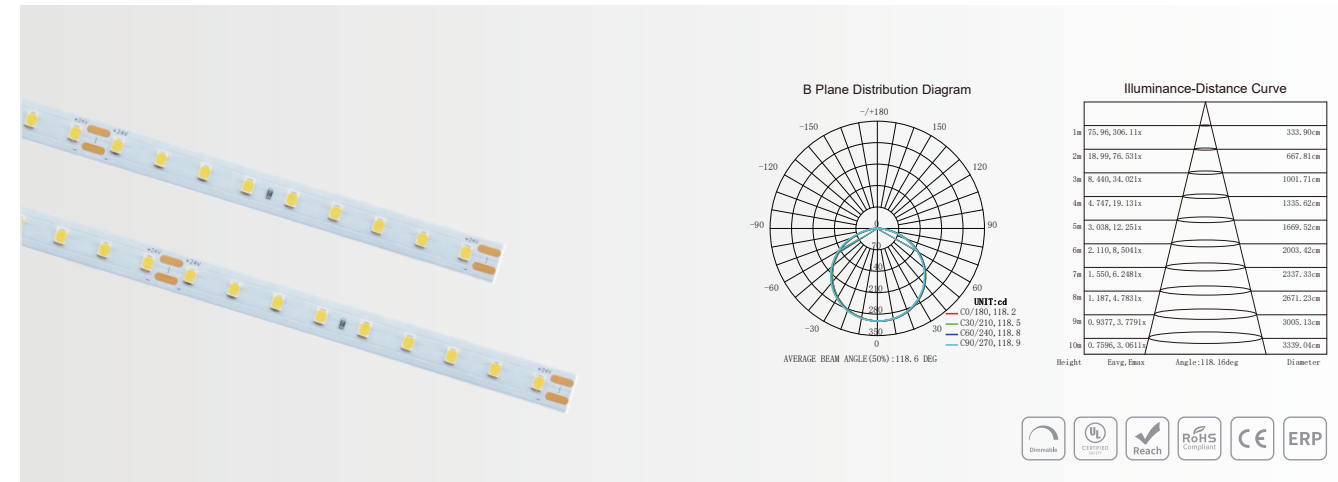
To improve luminous efficacy, while ensuring that the total forward voltage of the series-connected LEDs does not exceed 24V, the number of LEDs in each series string can be increased, or the luminous output of each individual LED can be enhanced. Based on this principle, we have started designing products with more LEDs connected in series per group to achieve higher luminous efficacy and to meet different ERP energy efficiency requirements. More energy-efficient and eco-friendly.

- **LED Strip String Count & Light Efficiency Design**



- For example

	LED	LED/M	ERP
	6	60, 120	G
	7	70, 140	F
	8	80, 128, 160	E, D
	9	90, 180	C, B



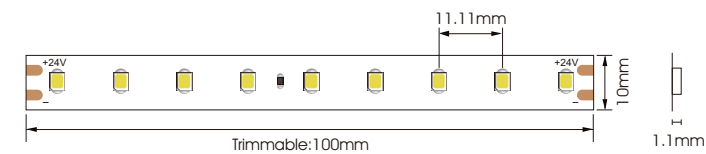
4.5W CRI80 90LED/m IP20 B/C

Electrical Data

Light Beads	: 2835
Number Led/M	: 90pcs
Power W/m $\pm$ 10%	: 4.5W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

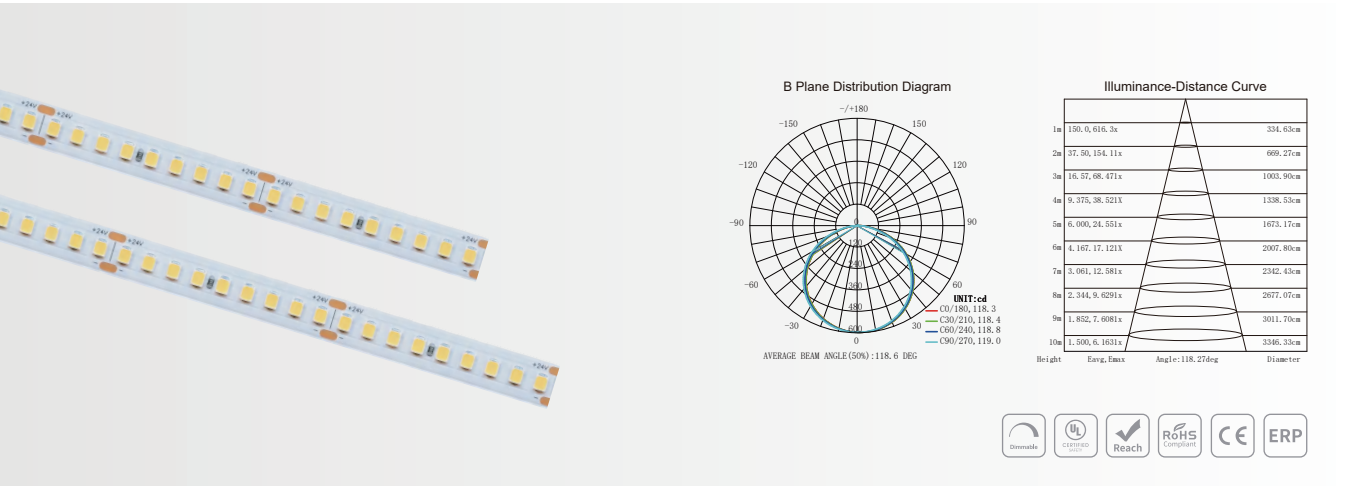
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24090T09-0A28	4.5	2700	187	840	>80/>0		<5	20(54/66/67)
CLT-INNF24090T09-0A28	4.5	3000	190	856	>80/>0		<5	20(54/66/67)
CLT-DNNF24090T09-0A28	4.5	4000	200	900	>80/>0		<5	20(54/66/67)
CLT-WNNF24090T09-0A28	4.5	6500	200	900	>80/>0		<5	20(54/66/67)



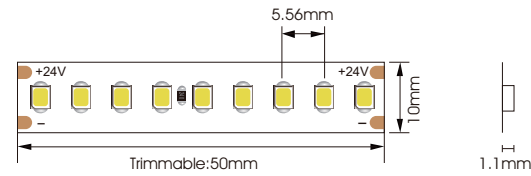
9W CRI80 180LED/m IP20 B/C

Electrical Data

Light Beads	: 2835
Number Led/M	: 180pcs
Power W/m±10%	: 9W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

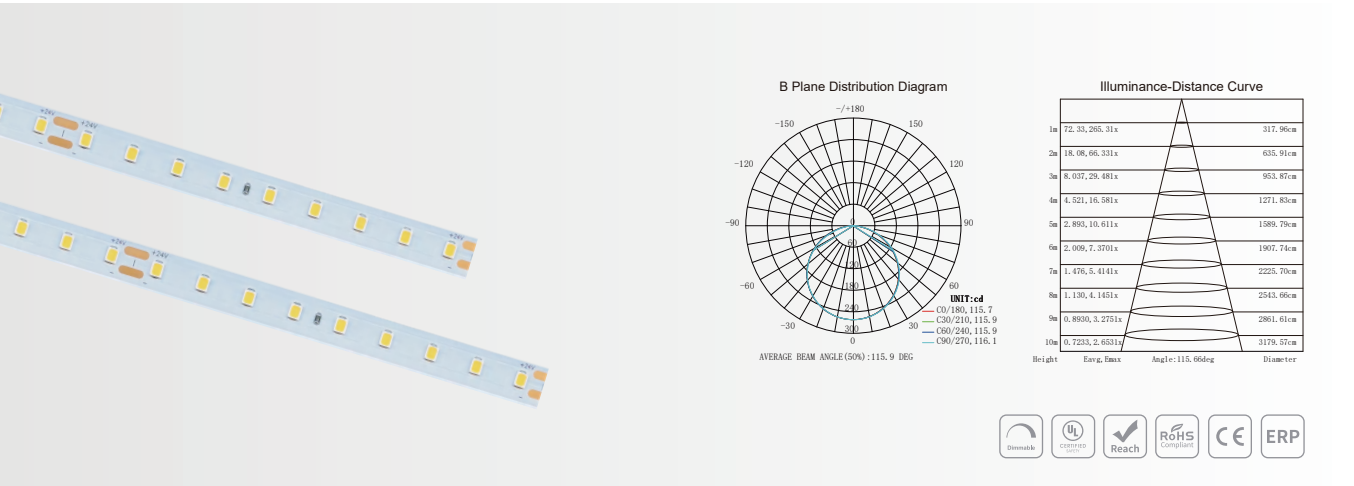
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24180T09-0A28	9	2700	184	1660	>80/>0	C	<5	20(54/66/67)
CLT-INNF24180T09-0A28	9	3000	184	1664	>80/>0	C	<5	20(54/66/67)
CLT-DNNF24180T09-0A28	9	4000	200	1800	>80/>0	B	<5	20(54/66/67)
CLT-WNNF24180T09-0A28	9	6500	200	1800	>80/>0	B	<5	20(54/66/67)



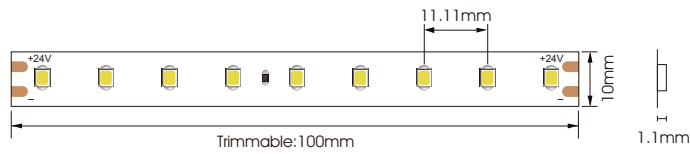
4.5W CRI90 90LED/m IP20 C

Electrical Data

Light Beads	: 2835
Number Led/M	: 90pcs
Power W/m±10%	: 4.5W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

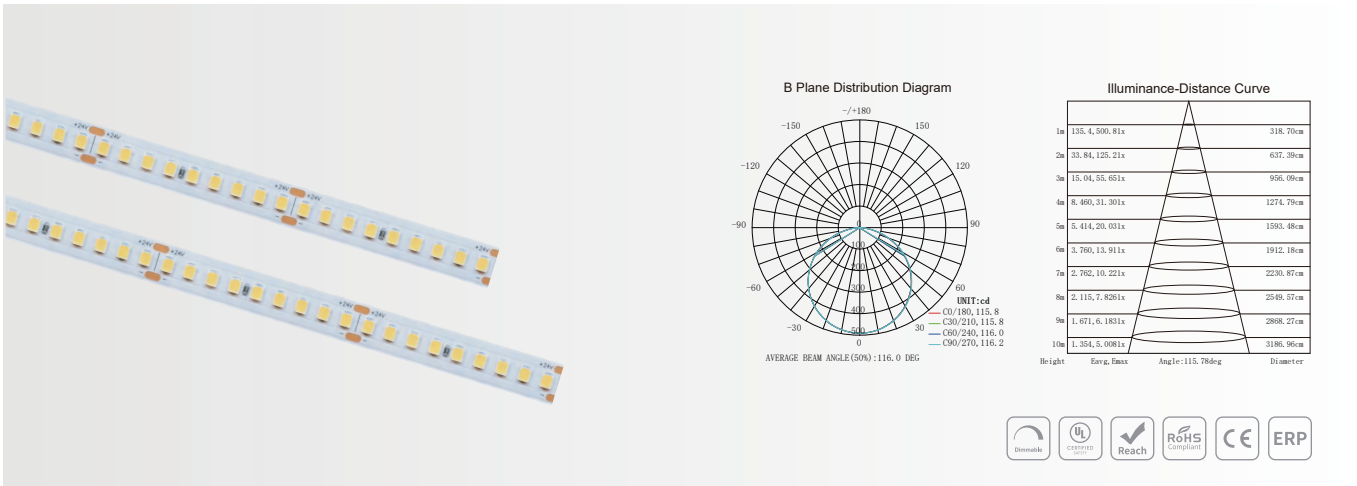
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24090T09-0A29	4.5	2700	178	800	>90/>40	C	<5	20(54/66/67)
CLT-INNF24090T09-0A29	4.5	3000	180	810	>90/>40	C	<5	20(54/66/67)
CLT-DNNF24090T09-0A29	4.5	4000	190	856	>90/>40	C	<5	20(54/66/67)
CLT-WNNF24090T09-0A29	4.5	6500	190	858	>90/>40	C	<5	20(54/66/67)



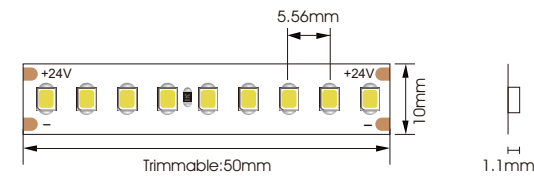
9W CRI90 180LED/m IP20 C

Electrical Data

Light Beads	: 2835
Number Led/M	: 180pcs
Power W/m±10%	: 9W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

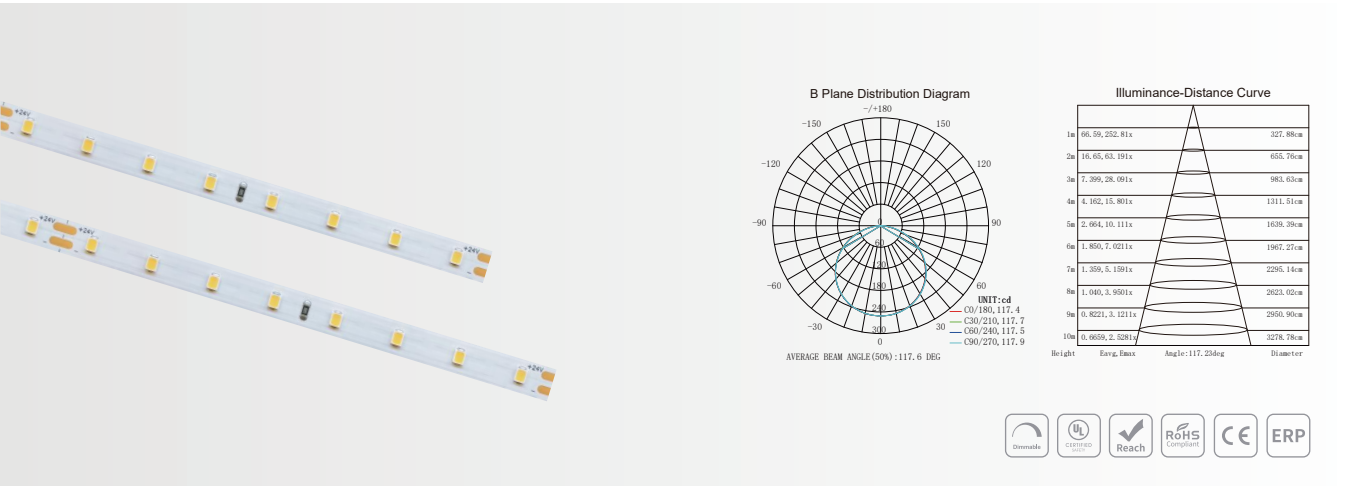
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24180T09-0A29	9	2700	178	1600	>90/>40	C	<5	20(54/66/67)
CLT-INNF24180T09-0A29	9	3000	180	1620	>90/>40	C	<5	20(54/66/67)
CLT-DNNF24180T09-0A29	9	4000	190	1700	>90/>40	C	<5	20(54/66/67)
CLT-WNNF24180T09-0A29	9	6500	190	1700	>90/>40	C	<5	20(54/66/67)



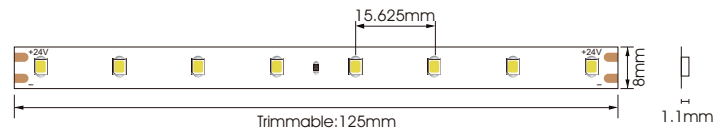
4.8W CRI80 64LED/m IP20 E

Electrical Data

Light Beads	: 2835
Number Led/M	: 64pcs
Power W/m±10%	: 4.8W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 125mm

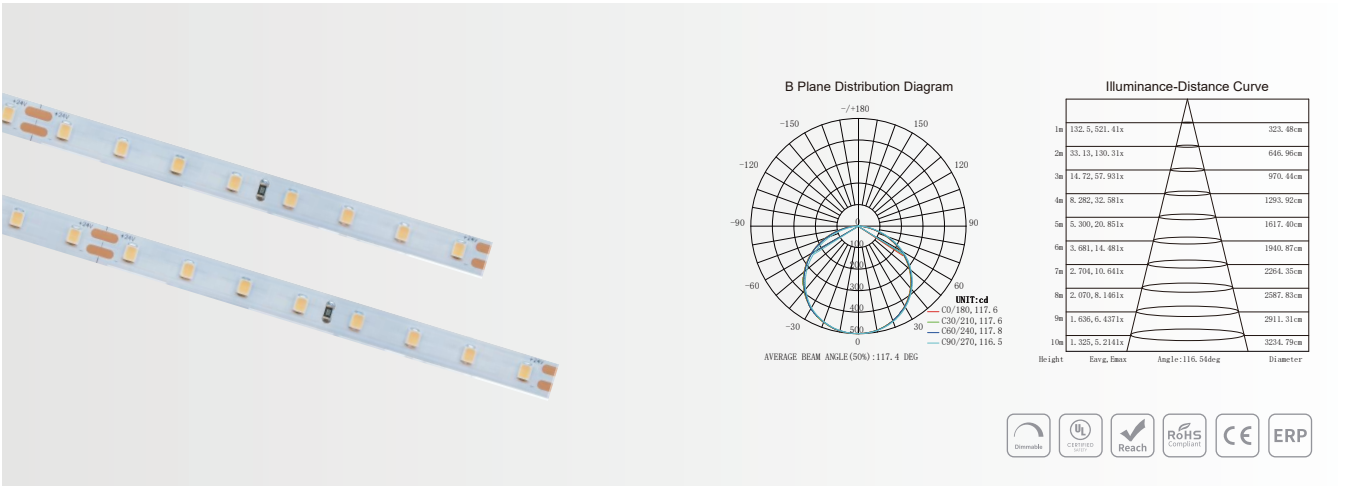
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24064T09-8A38	4.8	2700	138	660	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24064T09-8A38	4.8	3000	140	672	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24064T09-8A38	4.8	4000	145	696	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24064T09-8A38	4.8	6500	145	696	>80/>0	E	≤3	20(54/66/67)



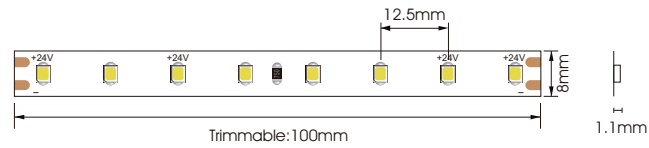
9.6W CRI80 80LED/m IP20 E

Electrical Data

Light Beads	: 2835
Number Led/M	: 80pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

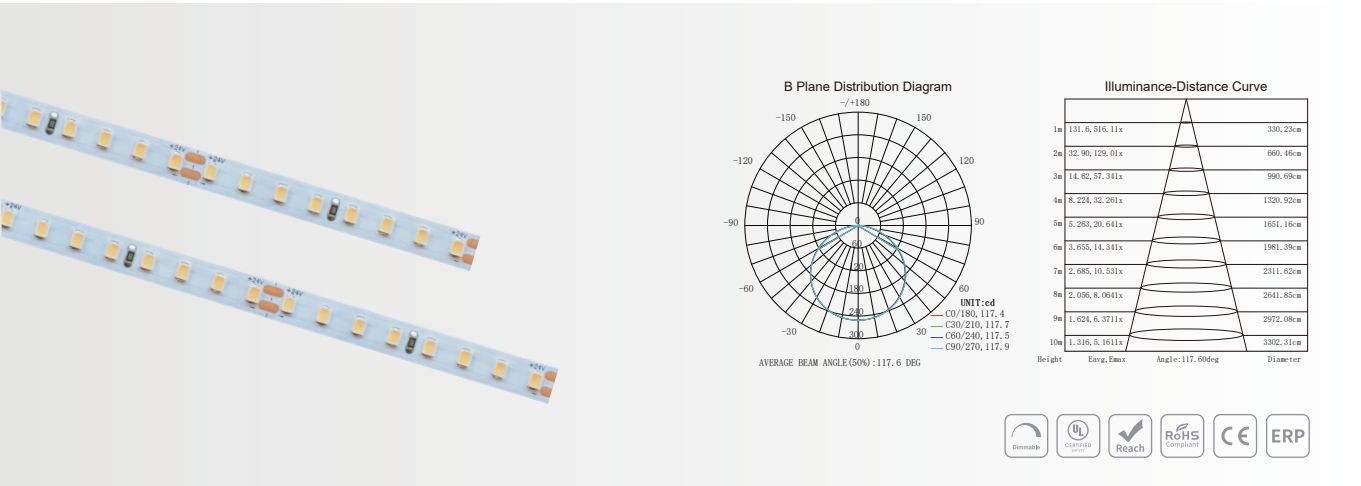
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24080T09-8A28	9.6	2700	135	1296	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24080T09-8A28	9.6	3000	138	1324	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24080T09-8A28	9.6	4000	145	1392	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24080T09-8A28	9.6	6500	145	1392	>80/>0	E	≤3	20(54/66/67)



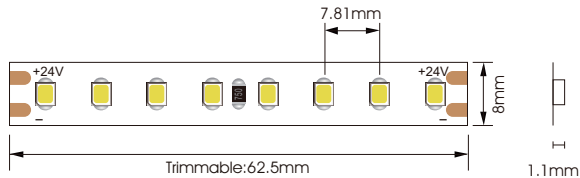
9.6W CRI80 128LED/m IP20 E

Electrical Data

Light Beads	: 2835
Number Led/M	: 128pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

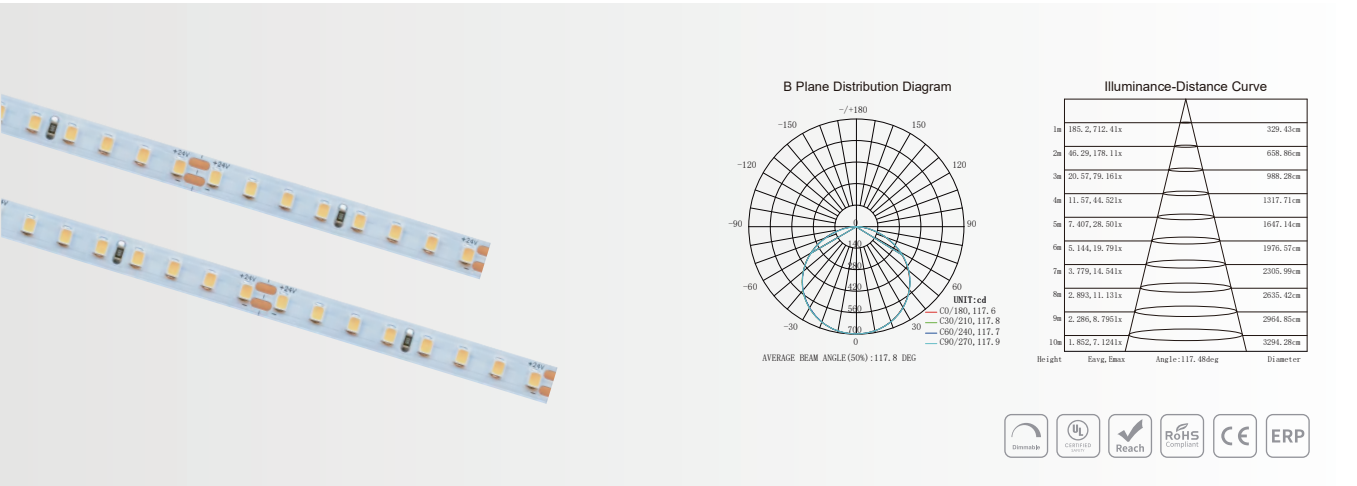
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24128T09-8A38	9.6	2700	138	1324	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24128T09-8A38	9.6	3000	140	1344	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24128T09-8A38	9.6	4000	145	1392	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24128T09-8A38	9.6	6500	145	1392	>80/>0	E	≤3	20(54/66/67)



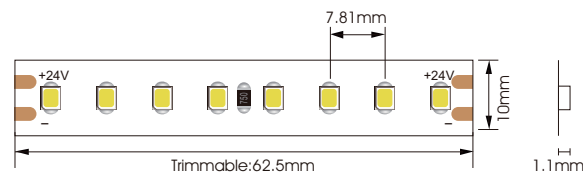
14.4W CRI80 128LED/m IP20 E

Electrical Data

Light Beads	: 2835
Number Led/M	: 128pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

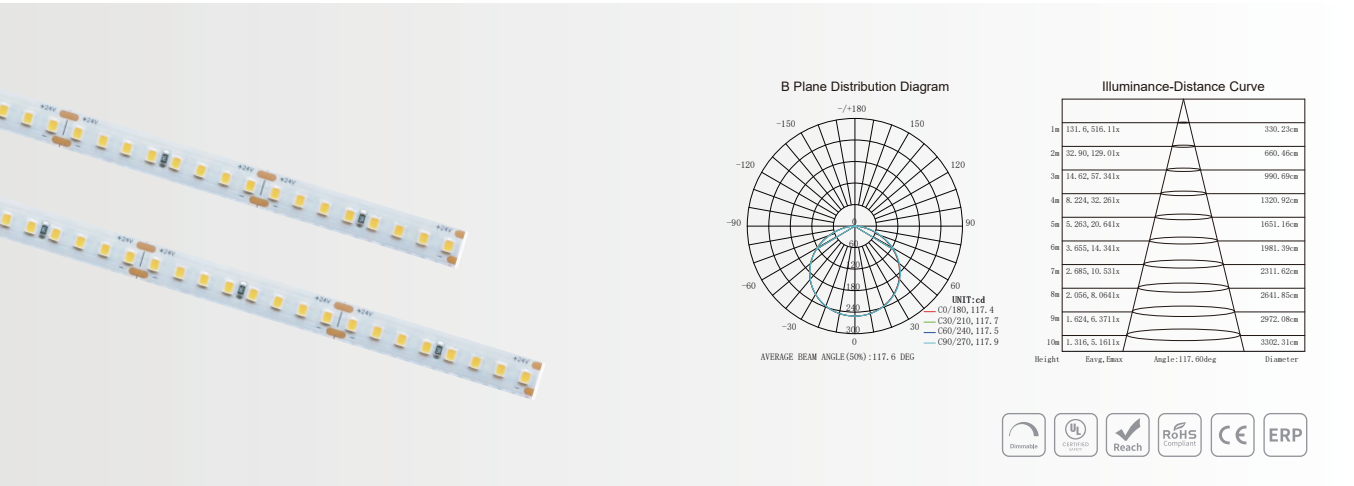
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24128T09-0A48	14.4	2700	140	2016	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24128T09-0A48	14.4	3000	142	2044	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24128T09-0A48	14.4	4000	145	2088	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24128T09-0A48	14.4	6500	145	2088	>80/>0	E	≤3	20(54/66/67)



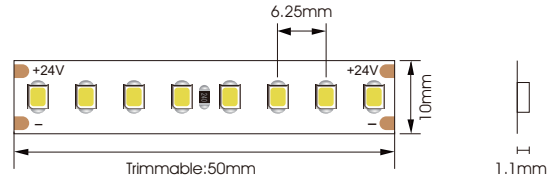
14.4W CRI80 160LED/m IP20 E

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

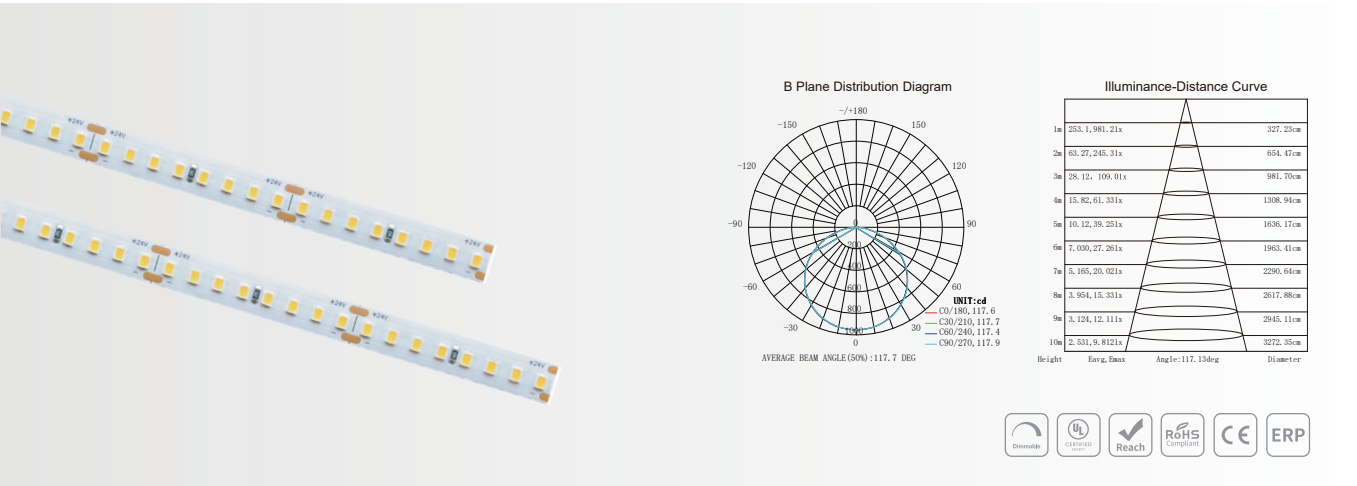
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-0A38	14.4	2700	140	2016	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24160T09-0A38	14.4	3000	142	2044	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24160T09-0A38	14.4	4000	145	2088	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24160T09-0A38	14.4	6500	145	2088	>80/>0	E	≤3	20(54/66/67)



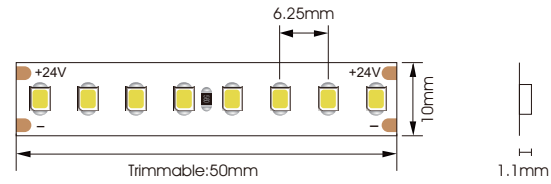
19.2W CRI80 160LED/m IP20 E

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-0A48	19.2	2700	135	2592	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24160T09-0A48	19.2	3000	138	2650	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24160T09-0A48	19.2	4000	145	2784	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24160T09-0A48	19.2	6500	145	2784	>80/>0	E	≤3	20(54/66/67)



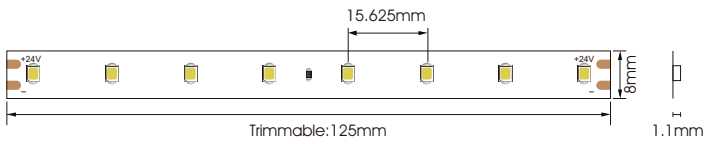
4.8W CRI90 64LED/m IP20 E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 64pcs
Power W/m±10%	: 4.8W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 125mm

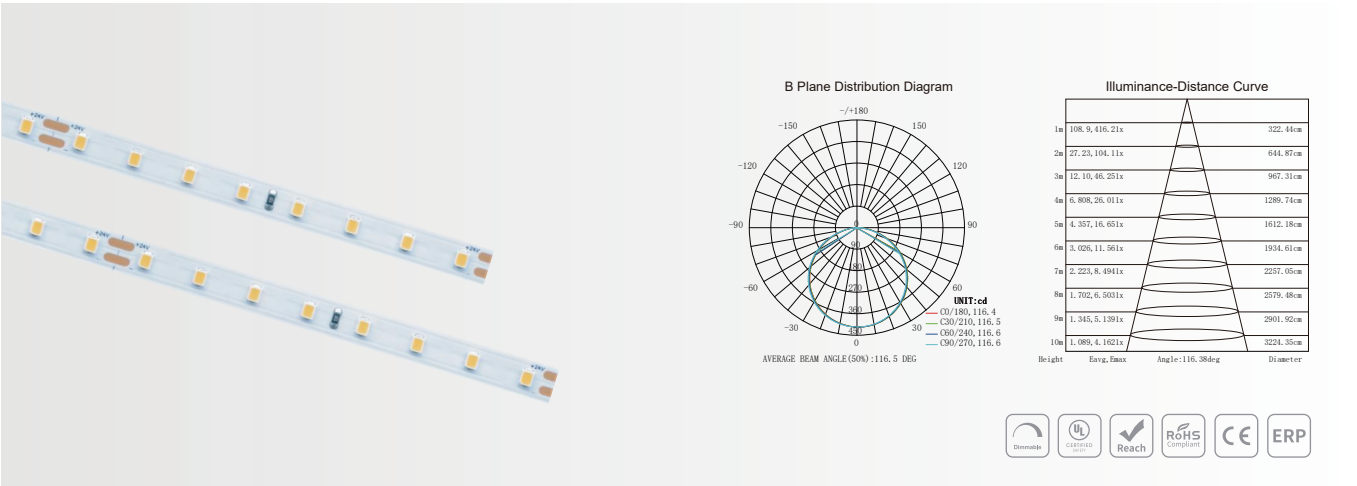
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24064T09-8A39	4.8	2700	115	552	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24064T09-8A39	4.8	3000	118	566	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24064T09-8A39	4.8	4000	125	600	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF24064T09-8A39	4.8	6500	125	600	>90/>40	E	≤3	20(54/66/67)



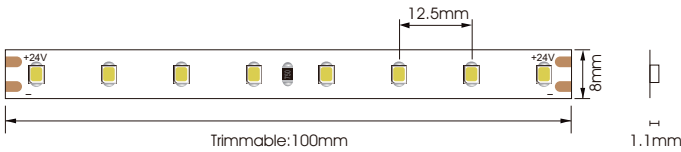
9.6W CRI90 80LED/m IP20 E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 80pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

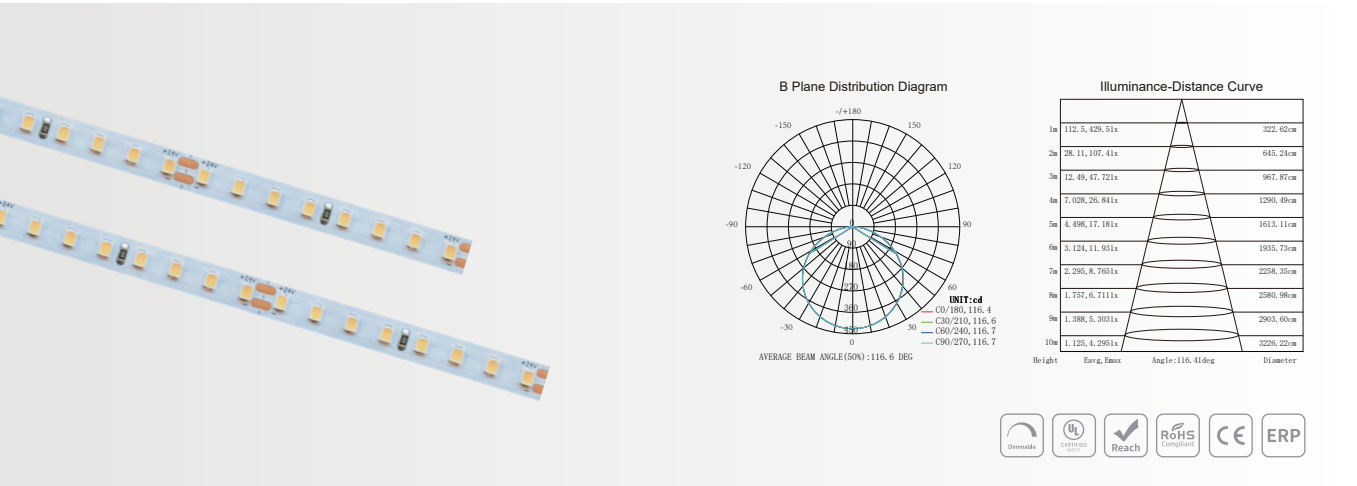
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24080T09-8A49	9.6	2700	110	1056	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24080T09-8A49	9.6	3000	115	1104	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24080T09-8A49	9.6	4000	120	1152	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF24080T09-8A49	9.6	6500	120	1152	>90/>40	E	≤3	20(54/66/67)



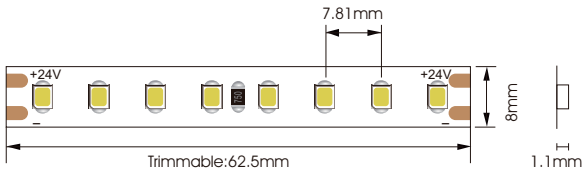
9.6W CRI90 128LED/m IP20 E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 128pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

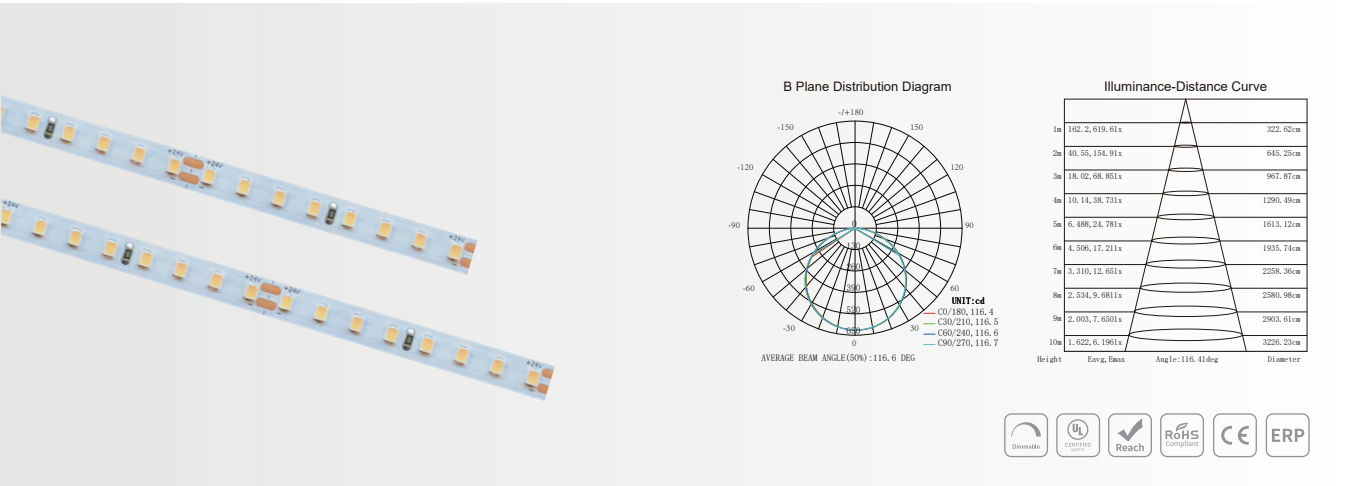
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24128T09-8A39	9.6	2700	115	1104	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24128T09-8A39	9.6	3000	118	1132	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24128T09-8A39	9.6	4000	125	1200	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF24128T09-8A39	9.6	6500	125	1200	>90/>40	E	≤3	20(54/66/67)



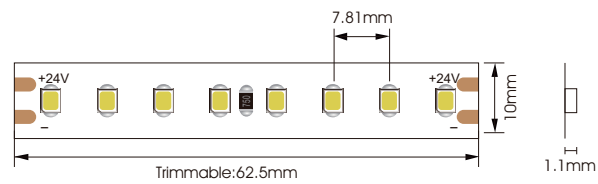
14.4W CRI90 128LED/m IP20 E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 128pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

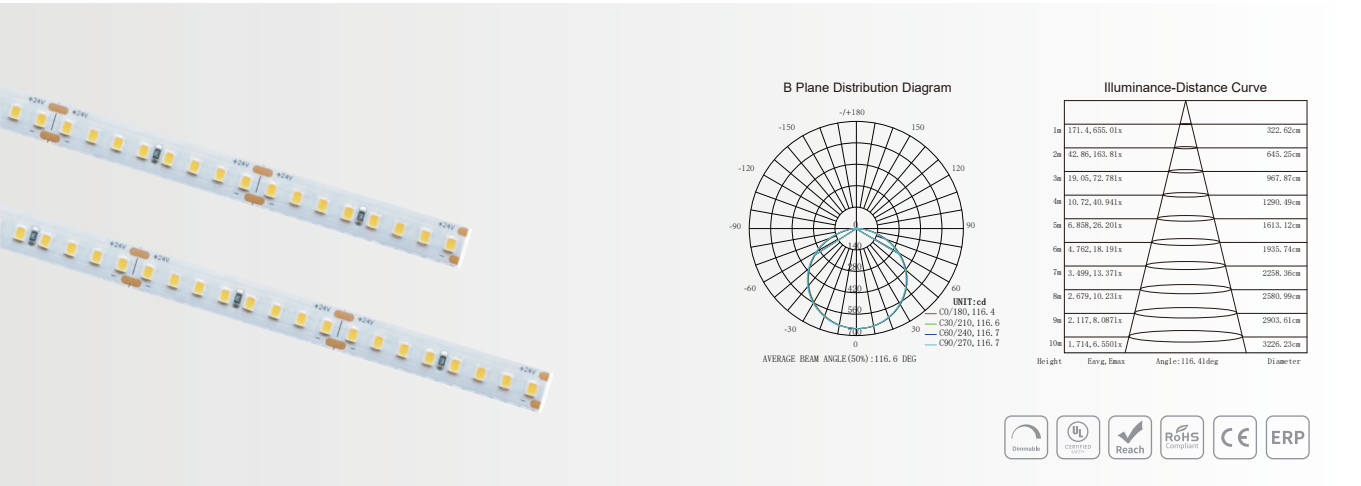
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24128T09-0A39	14.4	2700	110	1584	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24128T09-0A39	14.4	3000	112	1612	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24128T09-0A39	14.4	4000	120	1928	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF24128T09-0A39	14.4	6500	120	1928	>90/>40	E	≤3	20(54/66/67)



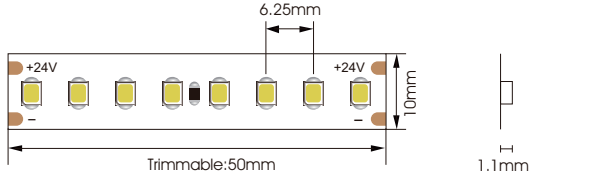
14.4W CRI90 160LED/m IP20 E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

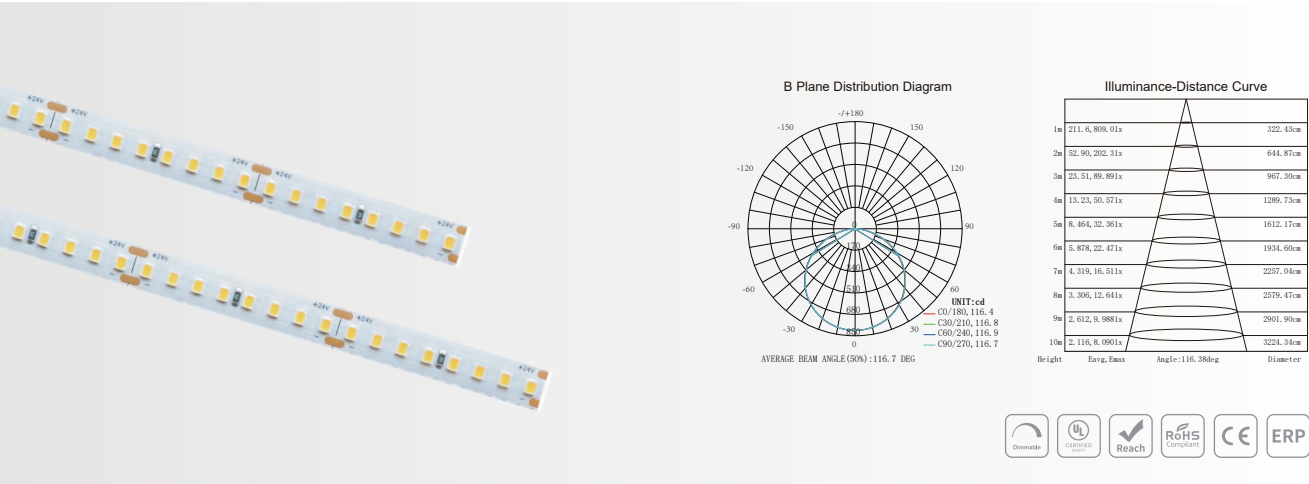
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-0A39	14.4	2700	110	1584	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24160T09-0A39	14.4	3000	112	1612	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24160T09-0A39	14.4	4000	120	1728	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF24160T09-0A39	14.4	6500	120	1728	>90/>40	E	≤3	20(54/66/67)



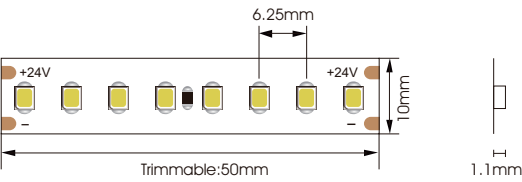
19.2W CRI90 160LED/m IP20 F

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

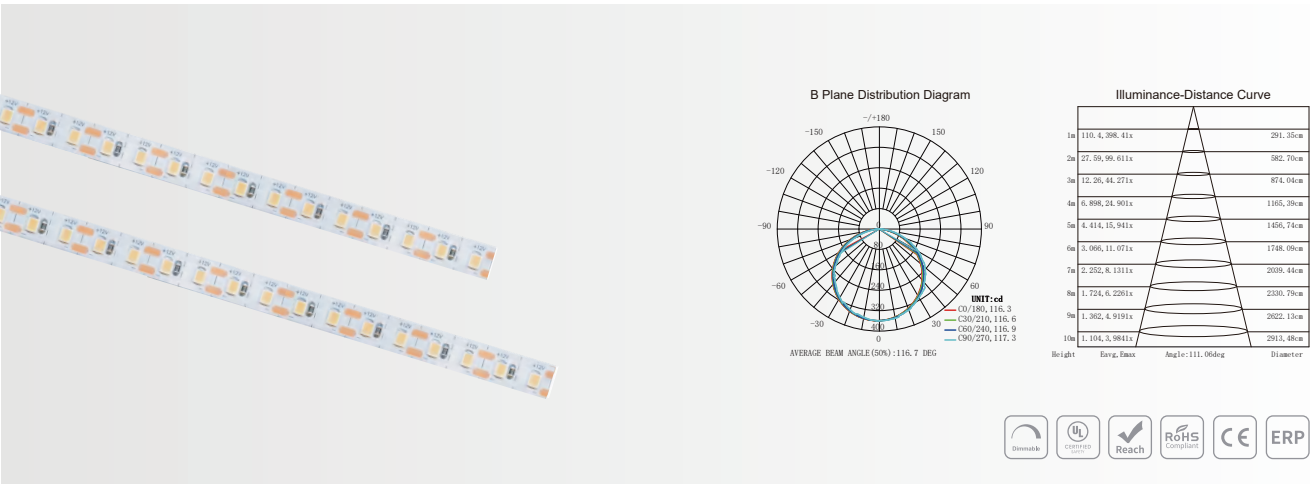
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yess



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-0A39	19.2	2700	105	2016	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24160T09-0A39	19.2	3000	110	2112	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24160T09-0A39	19.2	4000	115	2208	>90/>40	F	≤3	20(54/66/67)
CLT-WNNF24160T09-0A39	19.2	6500	115	2208	>90/>40	F	≤3	20(54/66/67)



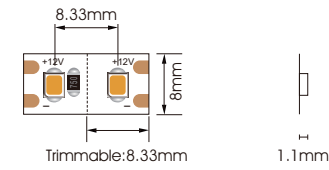
12V Mini Cut E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 9.6W
Voltage	: 12V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 8.33mm

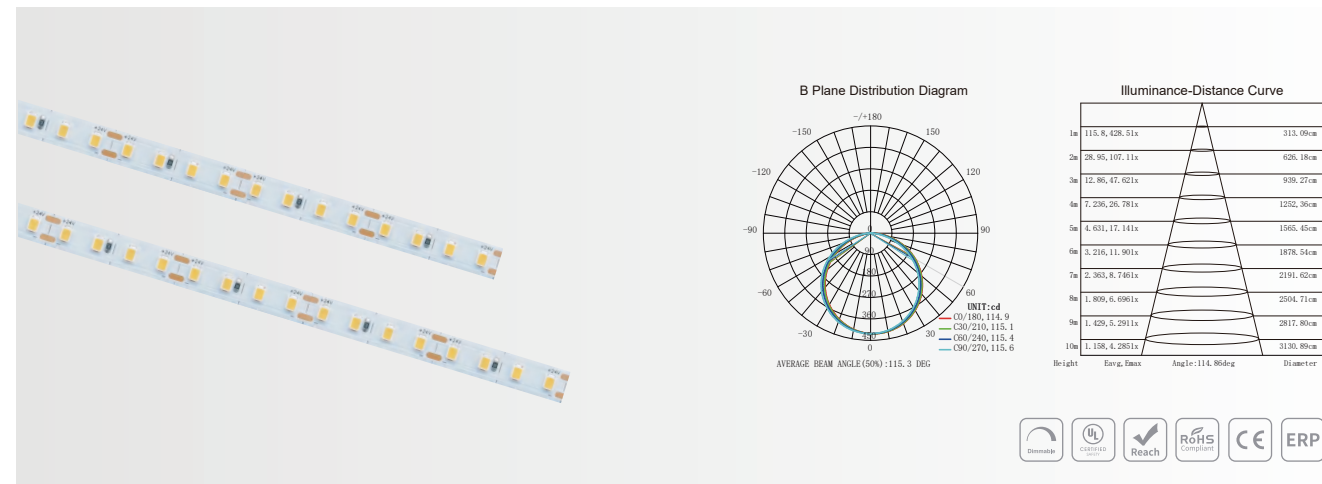
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF12120T09-8A29	9.6	2700	115	1080	>90/>40	F	≤3	20(54/66/67)
CLT-INNF12120T09-8A29	9.6	3000	115	1100	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF12120T09-8A29	9.6	4000	125	1200	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF12120T09-8A29	9.6	6500	125	1200	>90/>40	E	≤3	20(54/66/67)



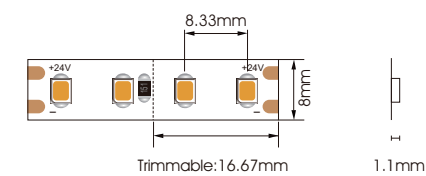
24V Mini Cut E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m $\pm$ 10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 16.67mm

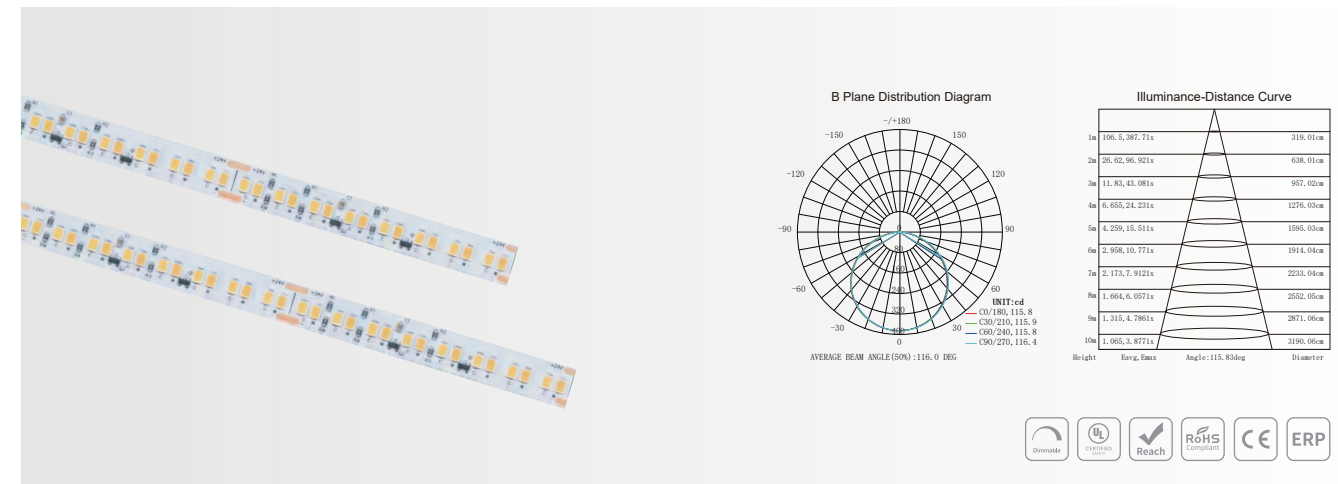
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yess



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CR/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24120T09-8A29	9.6	2700	115	1080	>90/>40	F	≤ 3	20(54/66/67)
CLT-INNF24120T09-8A29	9.6	3000	115	1100	>90/>40	F	≤ 3	20(54/66/67)
CLT-DNNF24120T09-8A29	9.6	4000	125	1200	>90/>40	E	≤ 3	20(54/66/67)
CLT-WNNF24120T09-8A29	9.6	6500	125	1200	>90/>40	E	≤ 3	20(54/66/67)



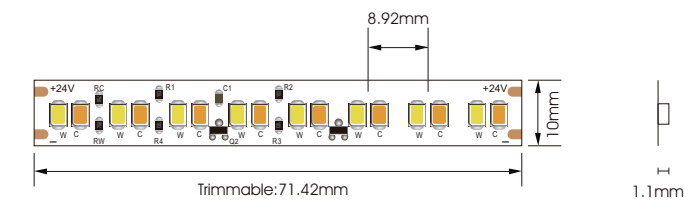
24V DIM TO WARM F

Electrical Data

Light Beads	: 2835
Number Led/M	: 224pcs
Power W/m $\pm 10\%$	: 10W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 71.42mm

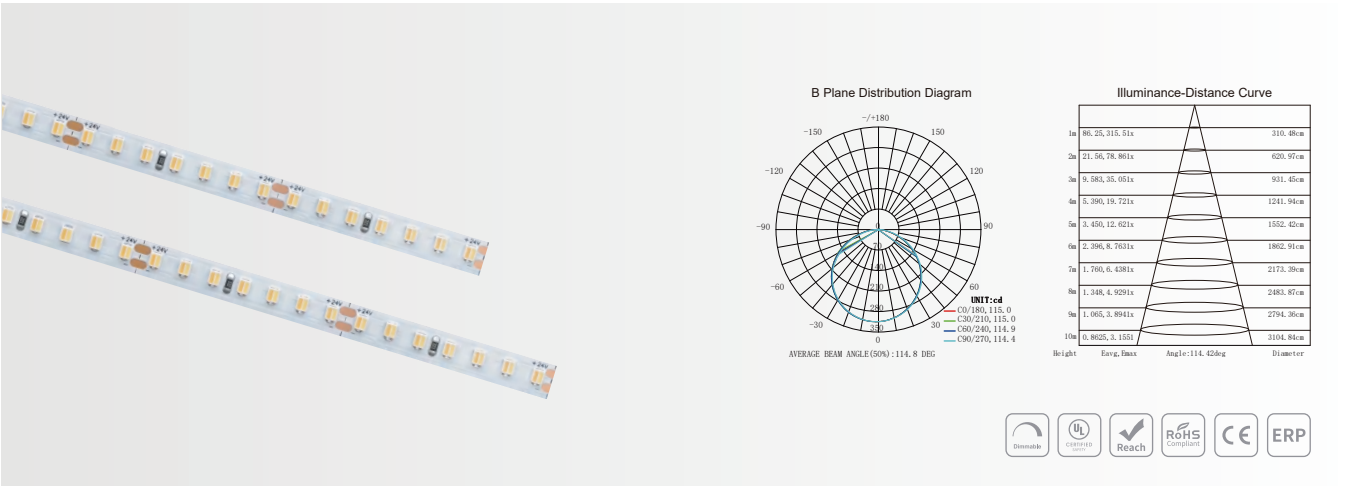
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WINF24224T09-0A39	10	1800-3000	110	1100	> 90/> 40	F	≤ 5	20/66



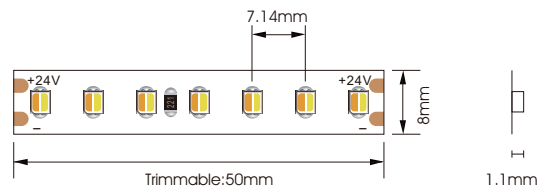
24V 9.6W CCT Tunable F 2 Cable Tech

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

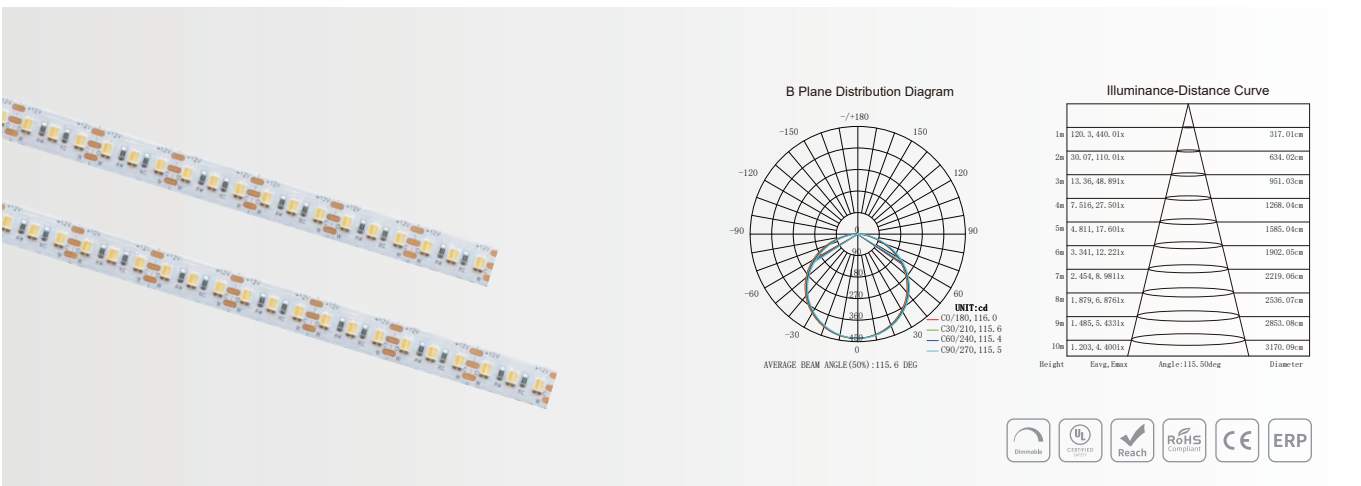
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WVNF24140T09-8A29	9.6	2700	90	864	>90/>40	F	≤5	20(54/66/67)
		6500	100	960	>90/>40	F	≤5	20(54/66/67)



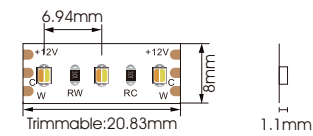
12V 14.4W CCT Tunable G 3 Cable Tech

Electrical Data

Light Beads	: 2835
Number Led/M	: 144pcs
Power W/m±10%	: 14.4W
Voltage	: 12V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 3m
Cut Size	: 20.83mm

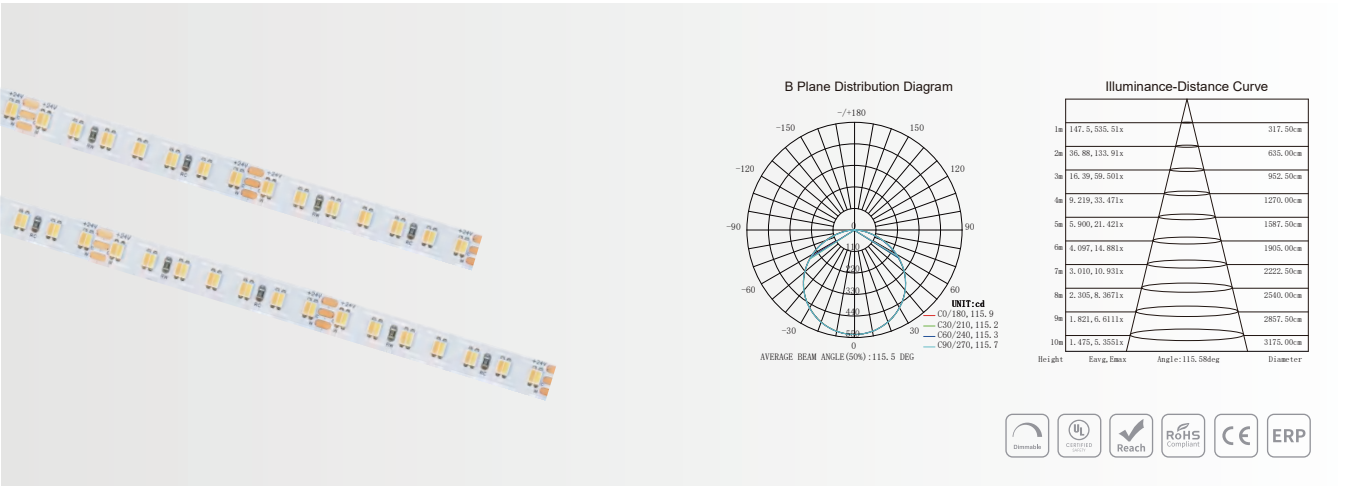
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WVNF12144T09-8A39	7.2+7.2	2700	83	600	>90/>40	G	≤5	20(54/66/67)
		6500	92	660	>90/>40	G	≤5	20(54/66/67)



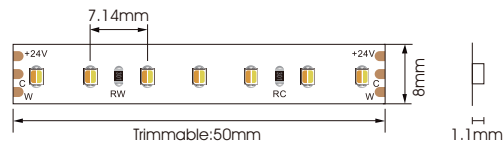
24V 14.4W CCT Tunable F 3 Cable Tech

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

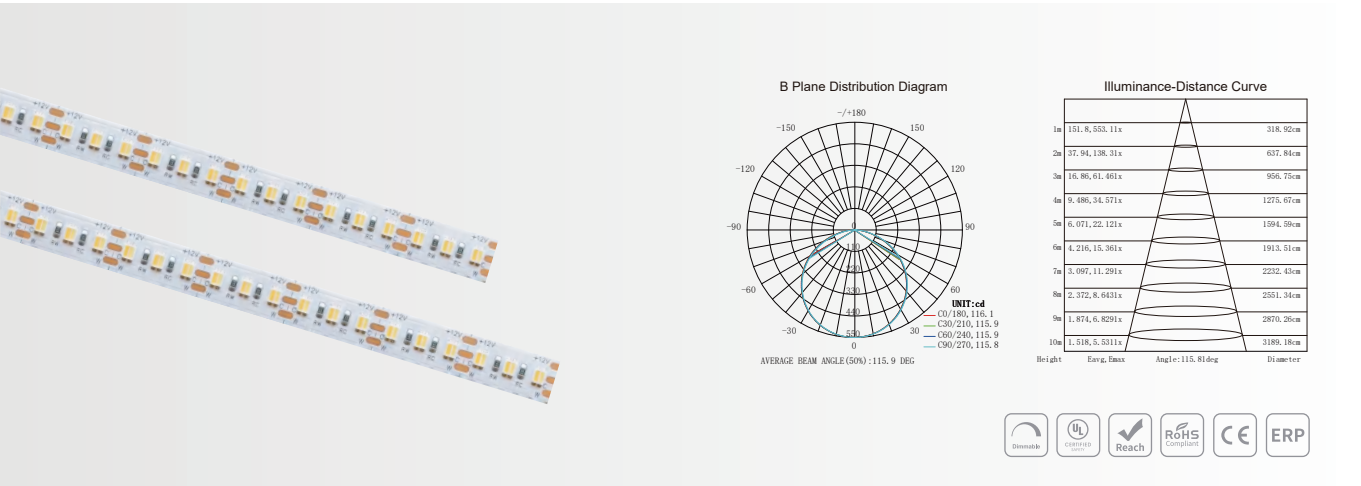
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WVNF24140T09-8A39	7.2+7.2	2700	100	720	>90/>40	F	≤5	20(54/66/67)
		6500	108	780	>90/>40	F	≤5	20(54/66/67)



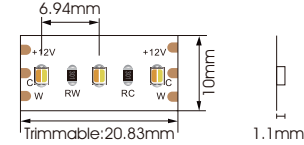
12V 19.2W CCT Tunable G 3 Cable Tech

Electrical Data

Light Beads	: 2835
Number Led/M	: 144pcs
Power W/m±10%	: 19.2W
Voltage	: 12V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 3m
Cut Size	: 20.83mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WVNF12144T09-0A49	9.6+9.6	2700	76	730	>90/>40	G	≤5	20(54/66/67)
		6500	83	800	>90/>40	G	≤5	20(54/66/67)



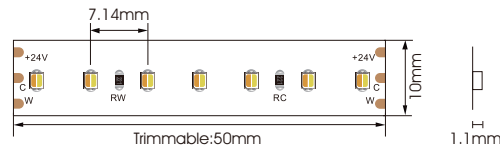
24V 19.2W CCT Tunable F 3 Cable Tech

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

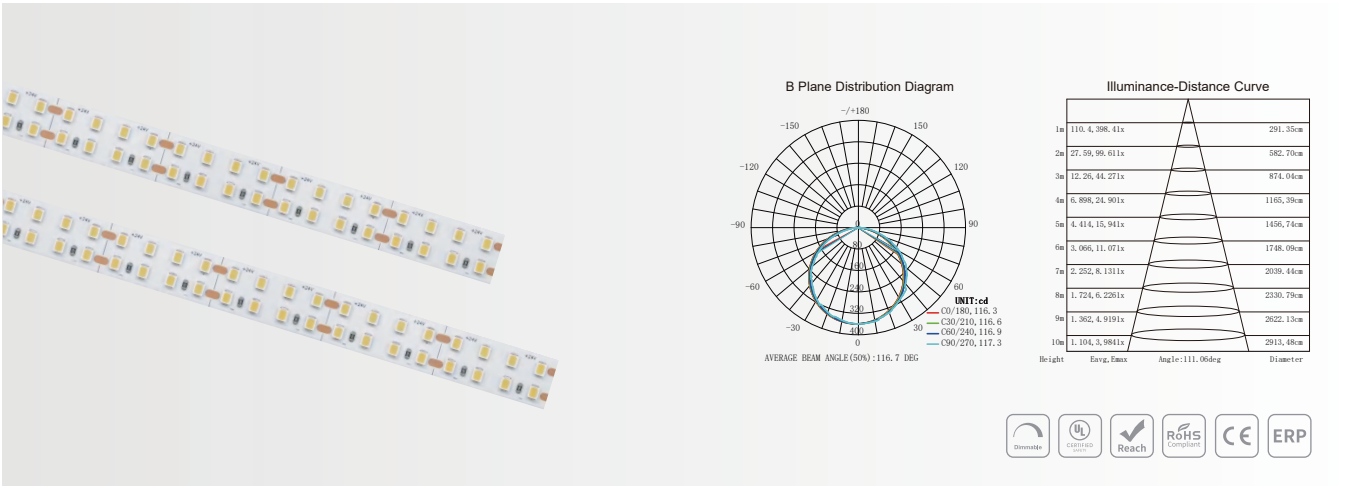
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-WVNF24140T09-0A39	9.6+9.6	2700	92	890	>90/>40	F	≤5	20(54/66/67)
		6500	102	980	>90/>40	F	≤5	20(54/66/67)



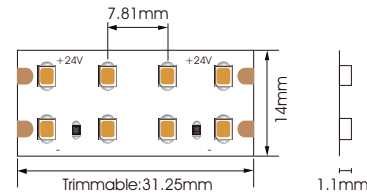
28.8W CRI80 256LED/m IP20 E Double-row High-lumen

Electrical Data

Light Beads	: 2835
Number Led/M	: 256pcs
Power W/m±10%	: 28.8W
Voltage	: 24V
PCB Width	: 14mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 31.25mm

Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24256T09-4B28	28.8	2700	136	3916	>80/>0	E	≤3	20(54/66/67)
CLT-INNF24256T09-4B28	28.8	3000	140	4032	>80/>0	E	≤3	20(54/66/67)
CLT-DNNF24256T09-4B28	28.8	4000	146	4204	>80/>0	E	≤3	20(54/66/67)
CLT-WNNF24256T09-4B28	28.8	6500	146	4204	>80/>0	E	≤3	20(54/66/67)

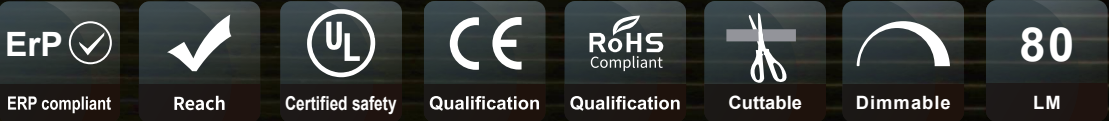


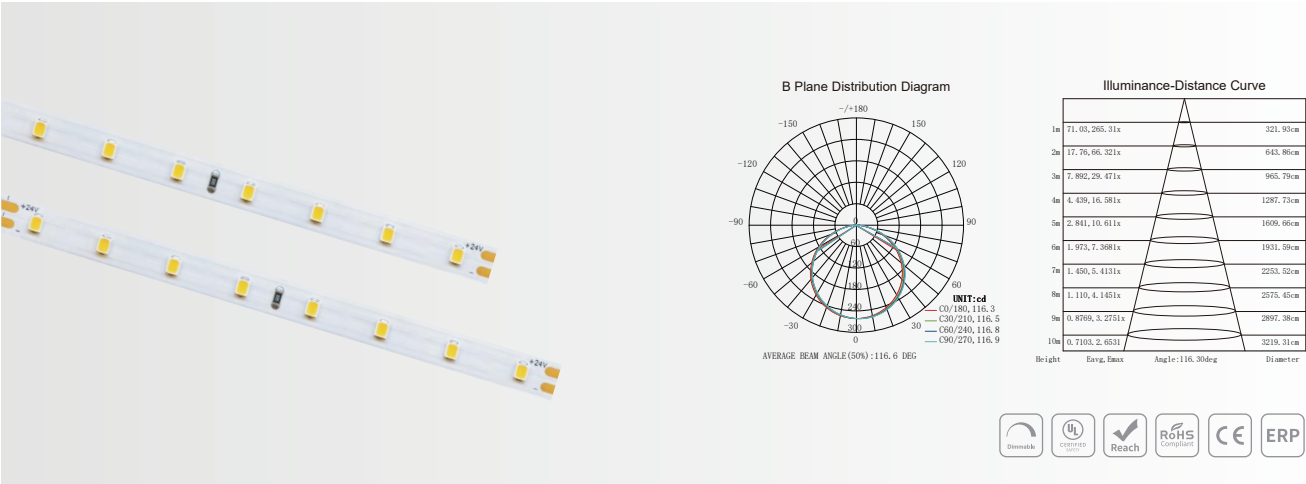
APPLICATION SCENARIOS

BLOOM SERIES

2835 HIGH EFFICIENCY FIRST GENERATION PRO LED STRIP

- 4.8W CRI90 64LED/m IP20 D
- 7.2W CRI90 80LED/m IP20 D
- 9.6W CRI90 128LED/m IP20 D
- 14.4W CRI90 128LED/m IP20 D
- 14.4W CRI90 160LED/m IP20 D
- 19.2W CRI90 160LED/m IP20 D/E





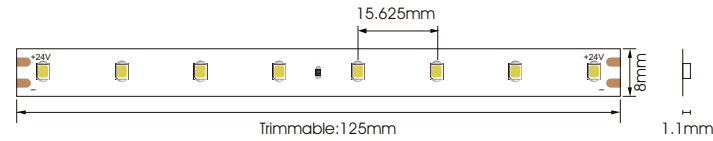
4.8W CRI90 64LED/m IP20 D

Electrical Data

Light Beads	: 2835
Number Led/M	: 64pcs
Power W/m±10%	: 4.8W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 125mm

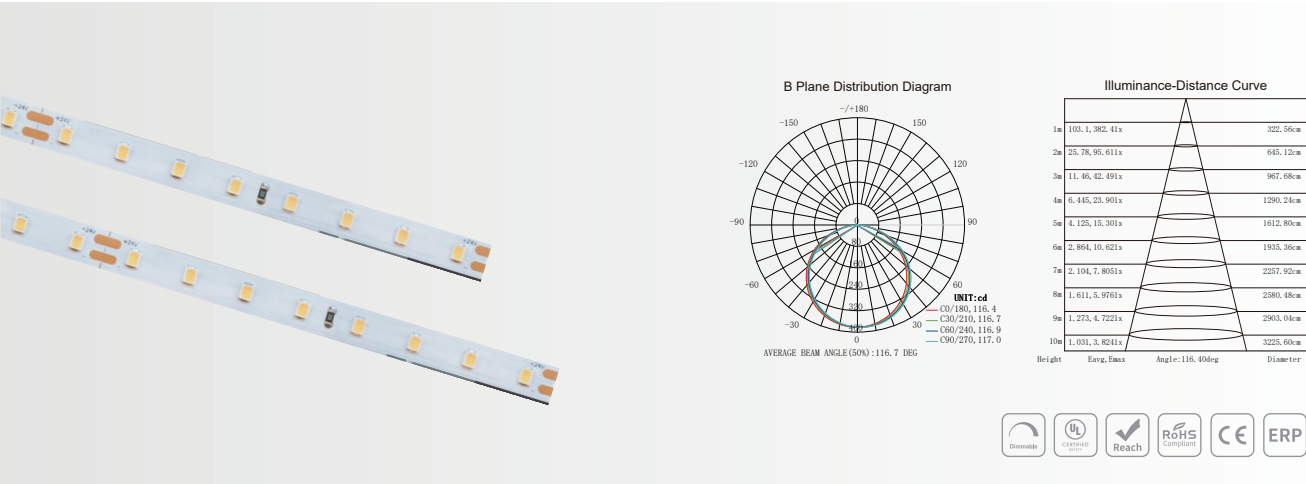
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24064T09-8A39	4.8	2700	152	730	>90/>40	D	≤5	20(54/66/67)
CLT-INGF24064T09-8A39	4.8	3000	157	752	>90/>40	D	≤5	20(54/66/67)
CLT-DNGF24064T09-8A39	4.8	4000	161	772	>90/>40	D	≤5	20(54/66/67)
CLT-WNGF24064T09-8A39	4.8	6500	161	772	>90/>40	D	≤5	20(54/66/67)



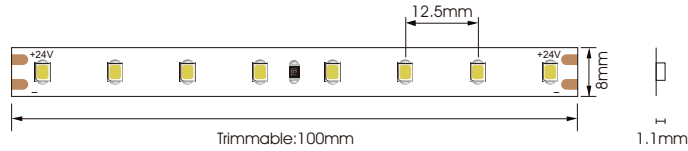
7.2W CRI90 80LED/m IP20 D

Electrical Data

Light Beads	: 2835
Number Led/M	: 80pcs
Power W/m±10%	: 7.2W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

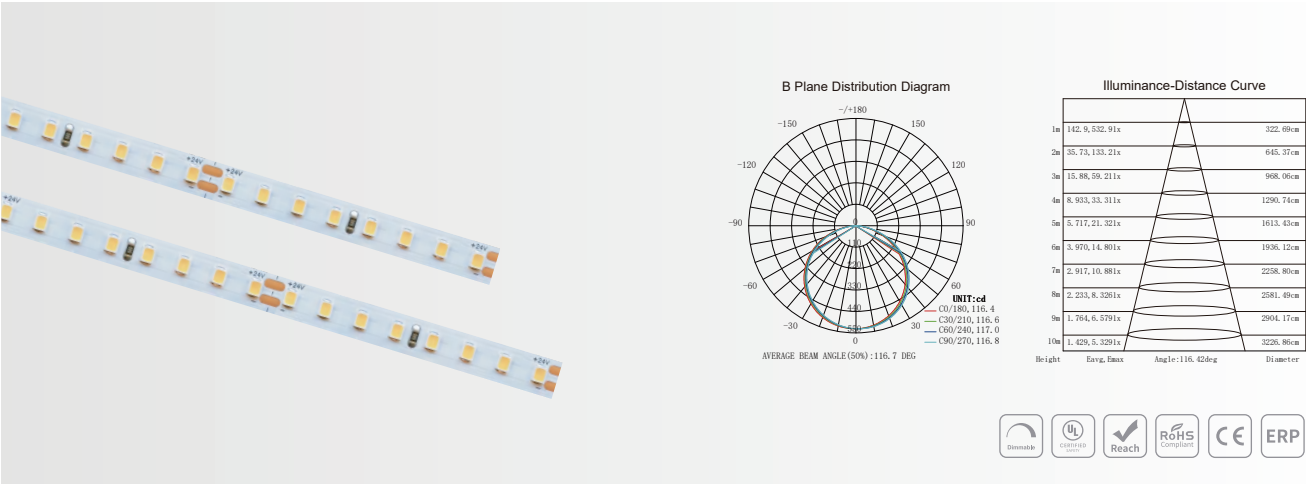
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24080T09-8A39	7.2	2700	151	1086	>90/>40	D	≤5	20(54/66/67)
CLT-INGF24080T09-8A39	7.2	3000	157	1130	>90/>40	D	≤5	20(54/66/67)
CLT-DNGF24080T09-8A39	7.2	4000	160	1152	>90/>40	D	≤5	20(54/66/67)
CLT-WNGF24080T09-8A39	7.2	6500	160	1152	>90/>40	D	≤5	20(54/66/67)



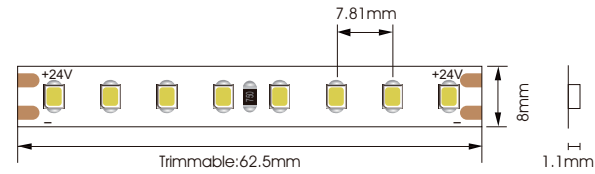
9.6W CRI90 128LED/m IP20 D

Electrical Data

Light Beads	: 2835
Number Led/M	: 128pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

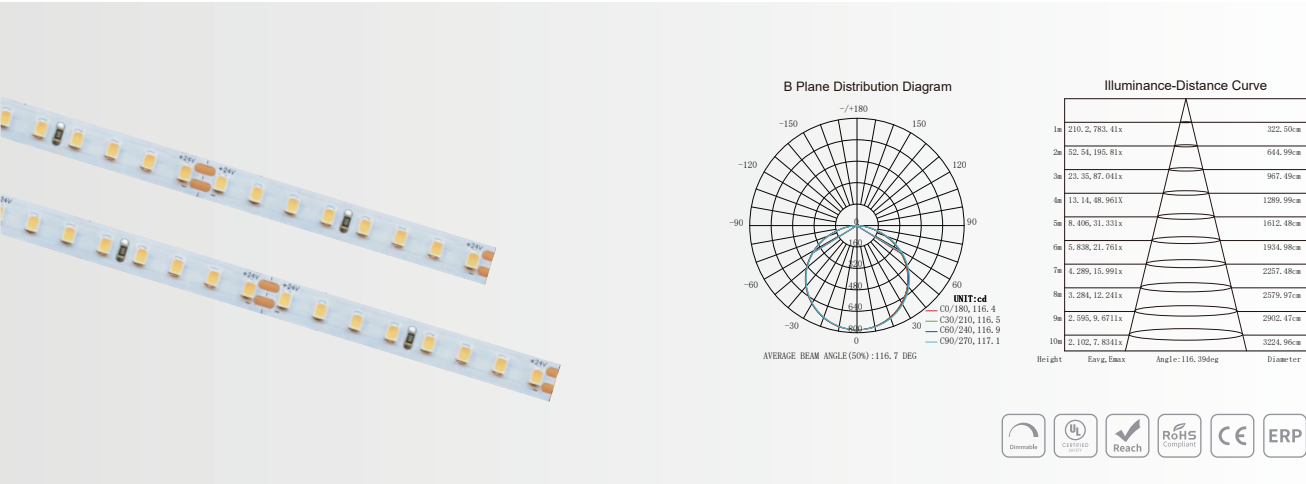
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24128T09-8A39	9.6	2700	151	1450	>90/>40	D	≤ 5	20(54/66/67)
CLT-INGF24128T09-8A39	9.6	3000	156	1496	>90/>40	D	≤ 5	20(54/66/67)
CLT-DNGF24128T09-8A39	9.6	4000	158	1516	>90/>40	D	≤ 5	20(54/66/67)
CLT-WNGF24128T09-8A39	9.6	6500	158	1516	>90/>40	D	≤ 5	20(54/66/67)



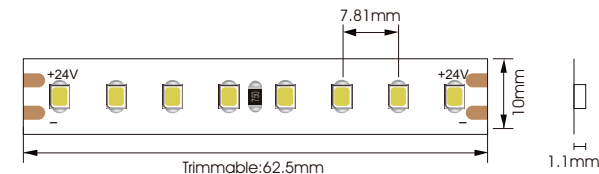
14.4W CRI90 128LED/m IP20 D

Electrical Data

Light Beads	: 2835
Number Led/M	: 128pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

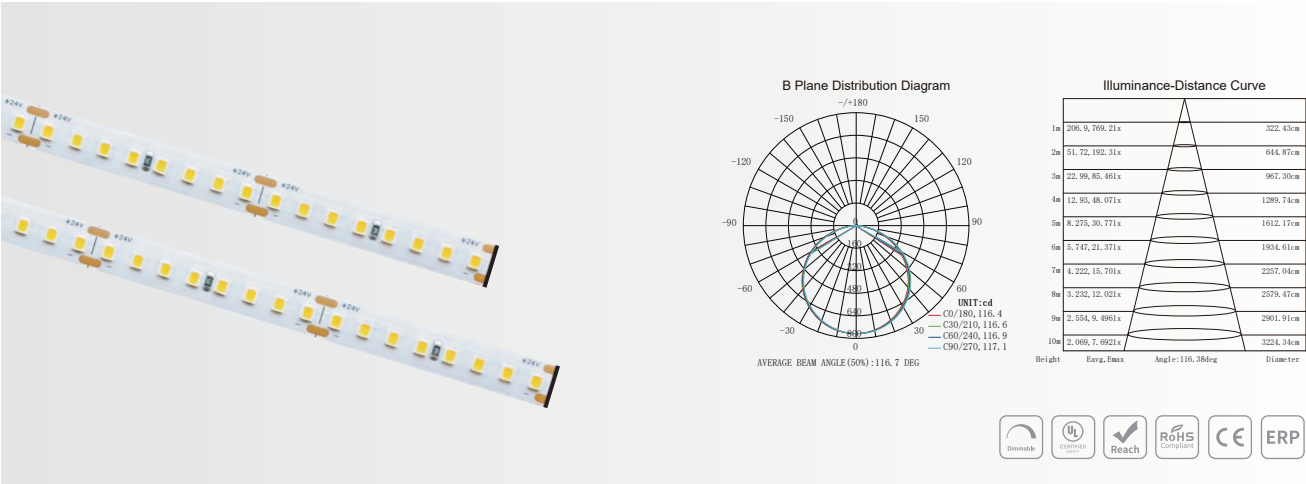
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24128T09-0A49	14.4	2700	148	2130	>90/>40	D	≤ 5	20(54/66/67)
CLT-INGF24128T09-0A49	14.4	3000	151	2174	>90/>40	D	≤ 5	20(54/66/67)
CLT-DNGF24128T09-0A49	14.4	4000	155	2232	>90/>40	D	≤ 5	20(54/66/67)
CLT-WNGF24128T09-0A49	14.4	6500	155	2232	>90/>40	D	≤ 5	20(54/66/67)



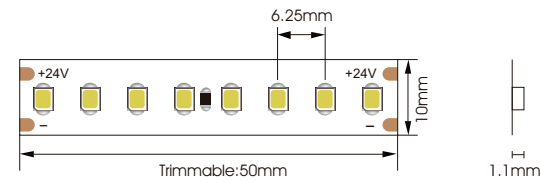
14.4W CRI90 160LED/m IP20 D

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

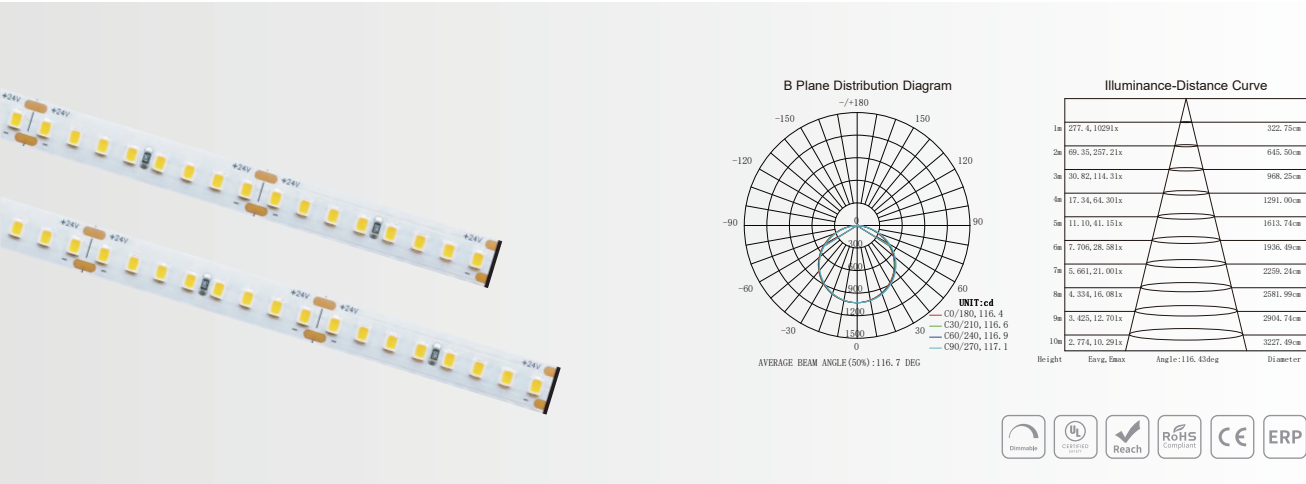
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24160T09-0A39	14.4	2700	148	2130	>90/>40	D	≤ 5	20(54/66/67)
CLT-INGF24160T09-0A39	14.4	3000	155	2232	>90/>40	D	≤ 5	20(54/66/67)
CLT-DNGF24160T09-0A39	14.4	4000	158	2274	>90/>40	D	≤ 5	20(54/66/67)
CLT-WNGF24160T09-0A39	14.4	6500	158	2274	>90/>40	D	≤ 5	20(54/66/67)



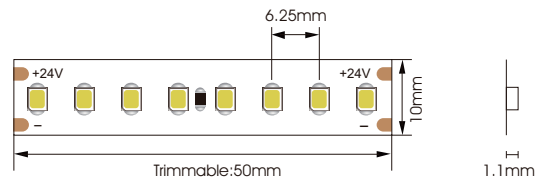
19.2W CRI90 160LED/m IP20 D/E

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24160T09-0A49	19.2	2700	143	2764	>90/>40	E	≤ 5	20(54/66/67)
CLT-INGF24160T09-0A49	19.2	3000	149	2860	>90/>40	D	≤ 5	20(54/66/67)
CLT-DNGF24160T09-0A49	19.2	4000	152	2918	>90/>40	D	≤ 5	20(54/66/67)
CLT-WNGF24160T09-0A49	19.2	6500	152	2918	>90/>40	D	≤ 5	20(54/66/67)



APPLICATION SCENARIOS

BLOOM SERIES

2835 ROLL TO ROLL LED STRIP

- 12V 4.8W CRI90 60LED/m IP20 G
- 12V 7.2W CRI90 120LED/mIP20 G
- 24V 4.8W CRI90 60LED/m IP20 G
- 24V 9.6W CRI90 120LED/m IP20 G
- 24V 14.4W CRI90 140LED/m IP20 F/G
- 24V 14.4W CRI90 160LED/m IP20 E/F





ErP

ERP compliant



Reach



CE

Qualification



RoHS

Compliant

Qualification



Cuttability

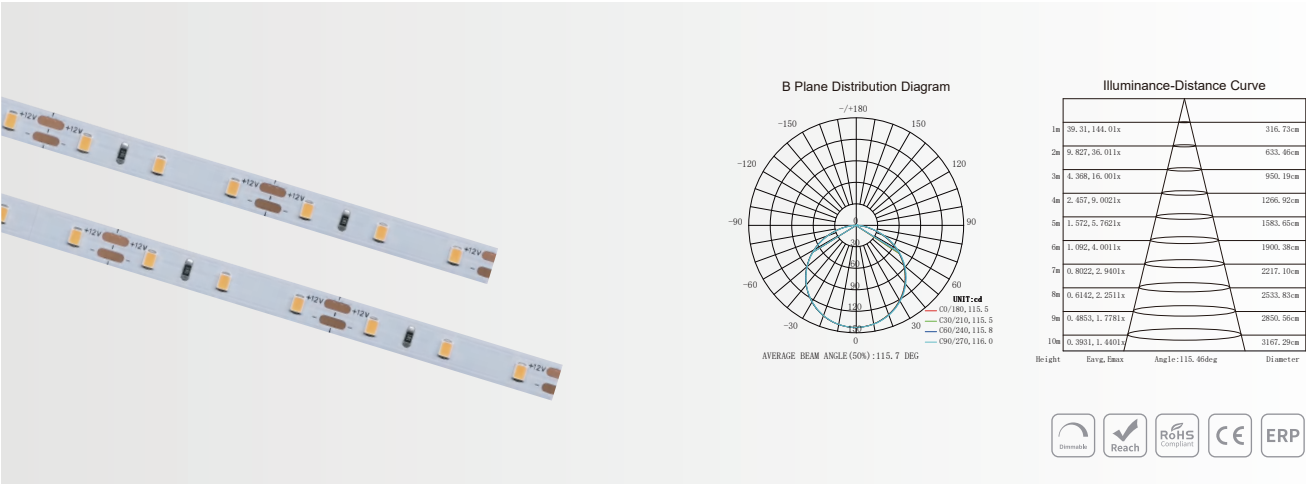


Dimmable



80

LM



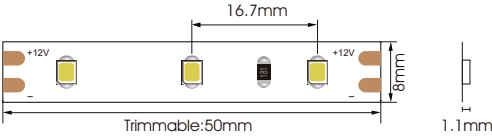
12V 4.8W CRI90 60LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 60pcs
Power W/m±10%	: 4.8W
Voltage	: 12V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

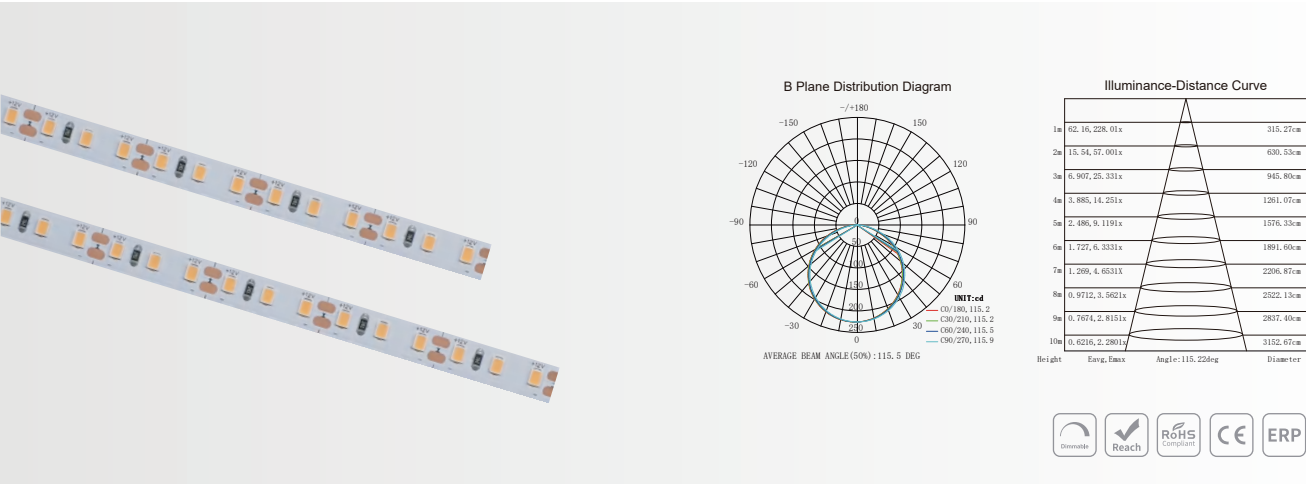
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF12060T09-8A29	4.8	2700	73	350	>90/>40		≤3	20(54/66/67)
CLT-INNF12060T09-8A29	4.8	3000	78	375	>90/>40		≤3	20(54/66/67)
CLT-DNNF12060T09-8A29	4.8	4000	86	410	>90/>40		≤3	20(54/66/67)
CLT-WNNF12060T09-8A29	4.8	6500	86	410	>90/>40		≤3	20(54/66/67)



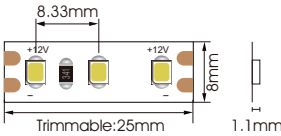
12V 7.2W CRI90 120LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 7.2W
Voltage	: 12V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 25mm

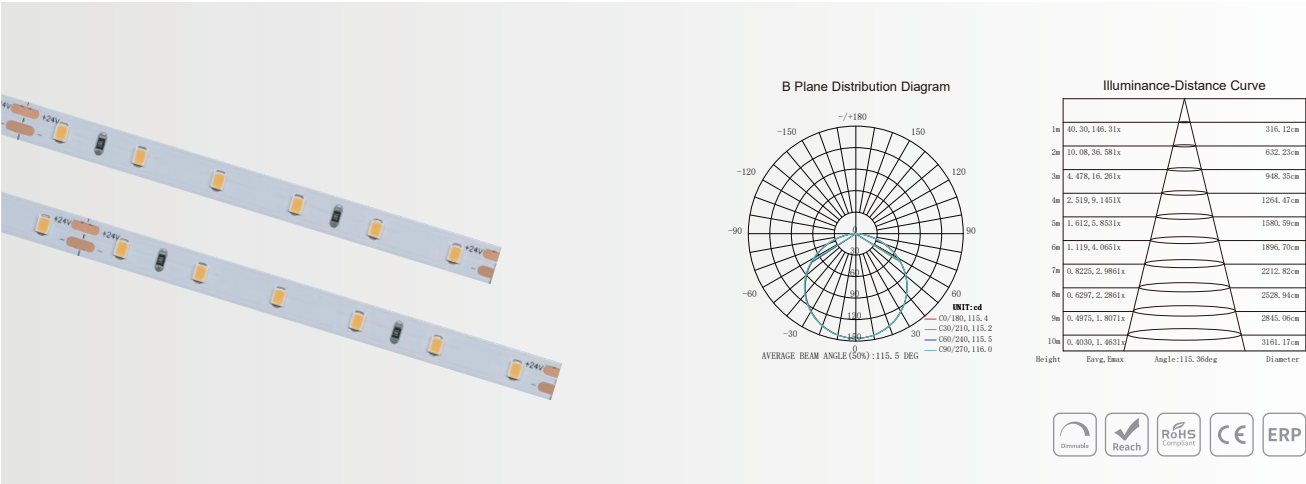
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF12120T09-8A29	7.2	2700	79	570	>90/>40		≤3	20(54/66/67)
CLT-INNF12120T09-8A29	7.2	3000	81	580	>90/>40		≤3	20(54/66/67)
CLT-DNNF12120T09-8A29	7.2	4000	85	610	>90/>40		≤3	20(54/66/67)
CLT-WNNF12120T09-8A29	7.2	6500	85	610	>90/>40		≤3	20(54/66/67)



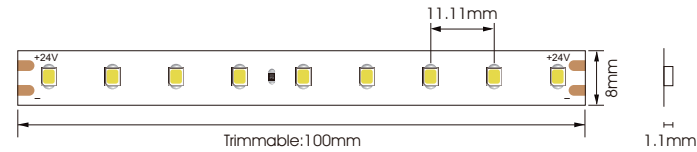
24V 4.8W CRI90 60LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 60pcs
Power W/m±10%	: 4.8W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

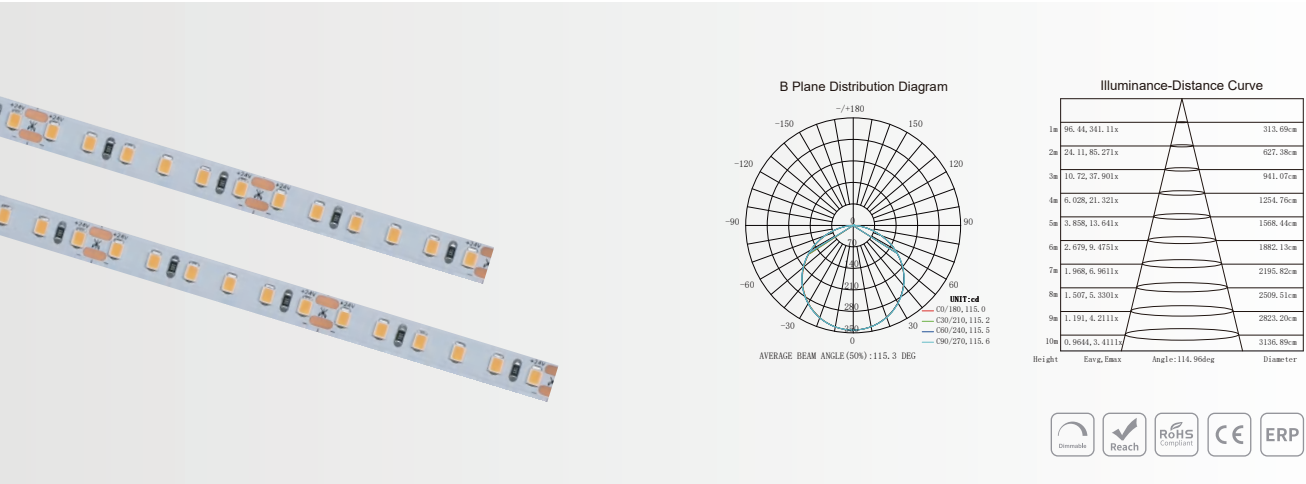
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24060T09-8A29	4.8	2700	73	350	>90/>40		≤3	20(54/66/67)
CLT-INNF24060T09-8A29	4.8	3000	78	375	>90/>40		≤3	20(54/66/67)
CLT-DNNF24060T09-8A29	4.8	4000	86	410	>90/>40		≤3	20(54/66/67)
CLT-WNNF24060T09-8A29	4.8	6500	86	410	>90/>40		≤3	20(54/66/67)



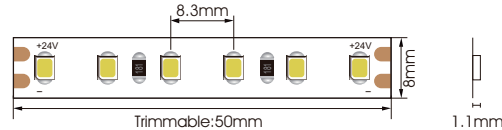
24V 9.6W CRI90 120LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

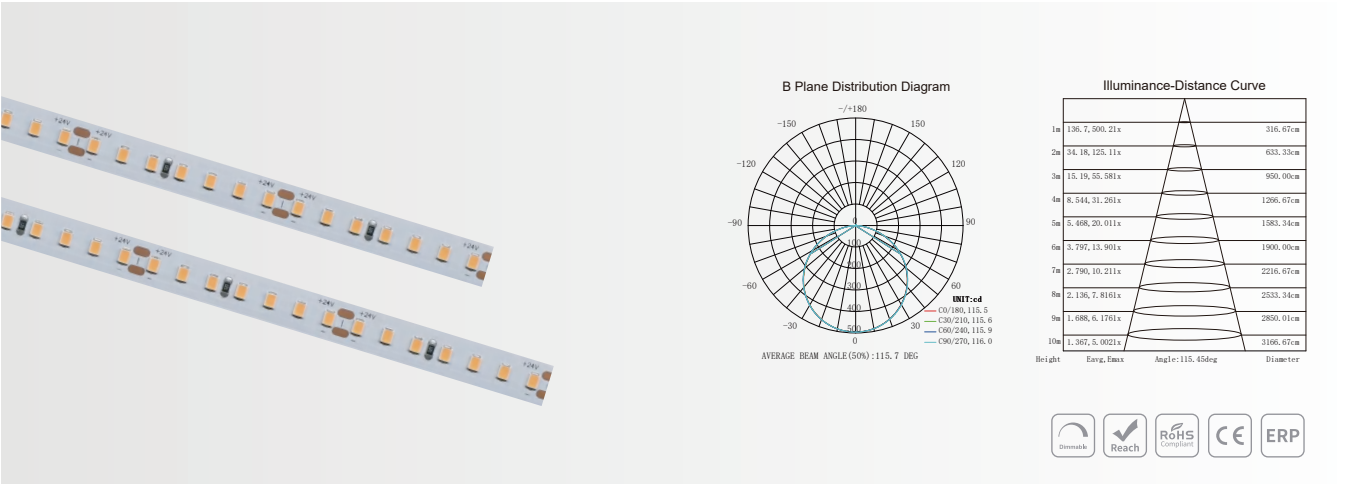
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24120T09-8A29	9.6	2700	79	760	>90/>40		≤3	20(54/66/67)
CLT-INNF24120T09-8A29	9.6	3000	81	775	>90/>40		≤3	20(54/66/67)
CLT-DNNF24120T09-8A29	9.6	4000	85	815	>90/>40		≤3	20(54/66/67)
CLT-WNNF24120T09-8A29	9.6	6500	85	815	>90/>40		≤3	20(54/66/67)



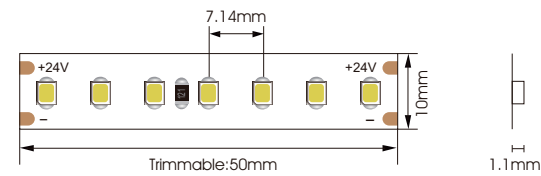
24V 14.4W CRI90 140LED/m IP20 F/G

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

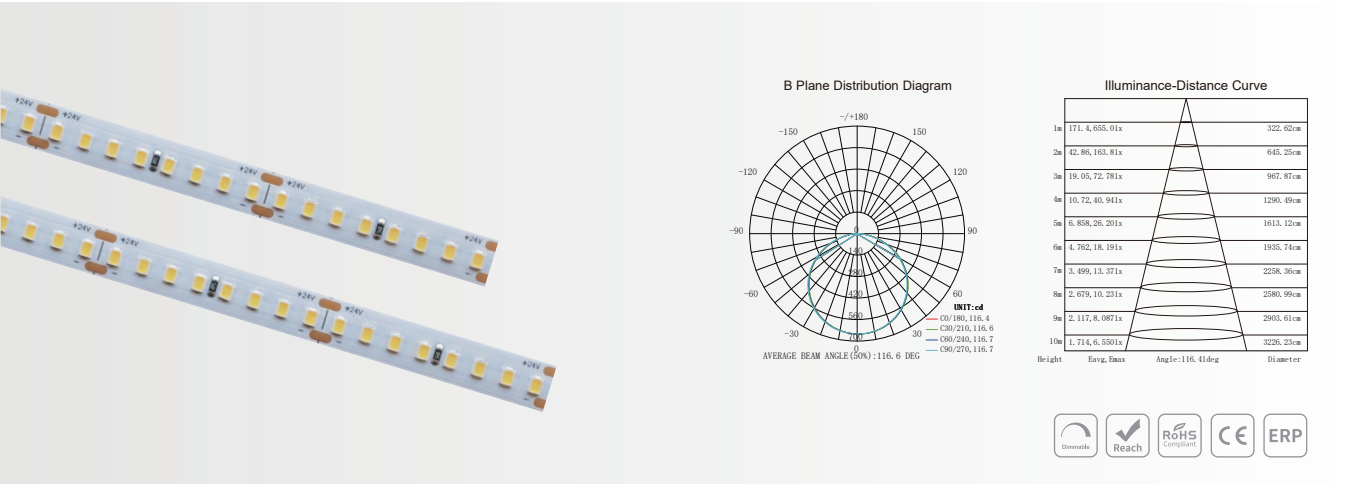
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24140T09-0A39	14.4	2700	90	1300	>90/>40	G	≤3	20(54/66/67)
CLT-INNF24140T09-0A39	14.4	3000	92	1320	>90/>40	G	≤3	20(54/66/67)
CLT-DNNF24140T09-0A39	14.4	4000	93	1340	>90/>40	F	≤3	20(54/66/67)
CLT-WNNF24140T09-0A39	14.4	6500	93	1340	>90/>40	F	≤3	20(54/66/67)



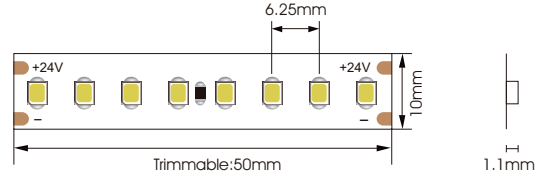
24V 14.4W CRI90 160LED/m IP20 E/F

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-0A39	14.4	2700	110	1585	>90/>40	F	≤3	20(54/66/67)
CLT-INNF24160T09-0A39	14.4	3000	114	1640	>90/>40	F	≤3	20(54/66/67)
CLT-DNNF24160T09-0A39	14.4	4000	120	1725	>90/>40	E	≤3	20(54/66/67)
CLT-WNNF24160T09-0A39	14.4	6500	120	1725	>90/>40	E	≤3	20(54/66/67)



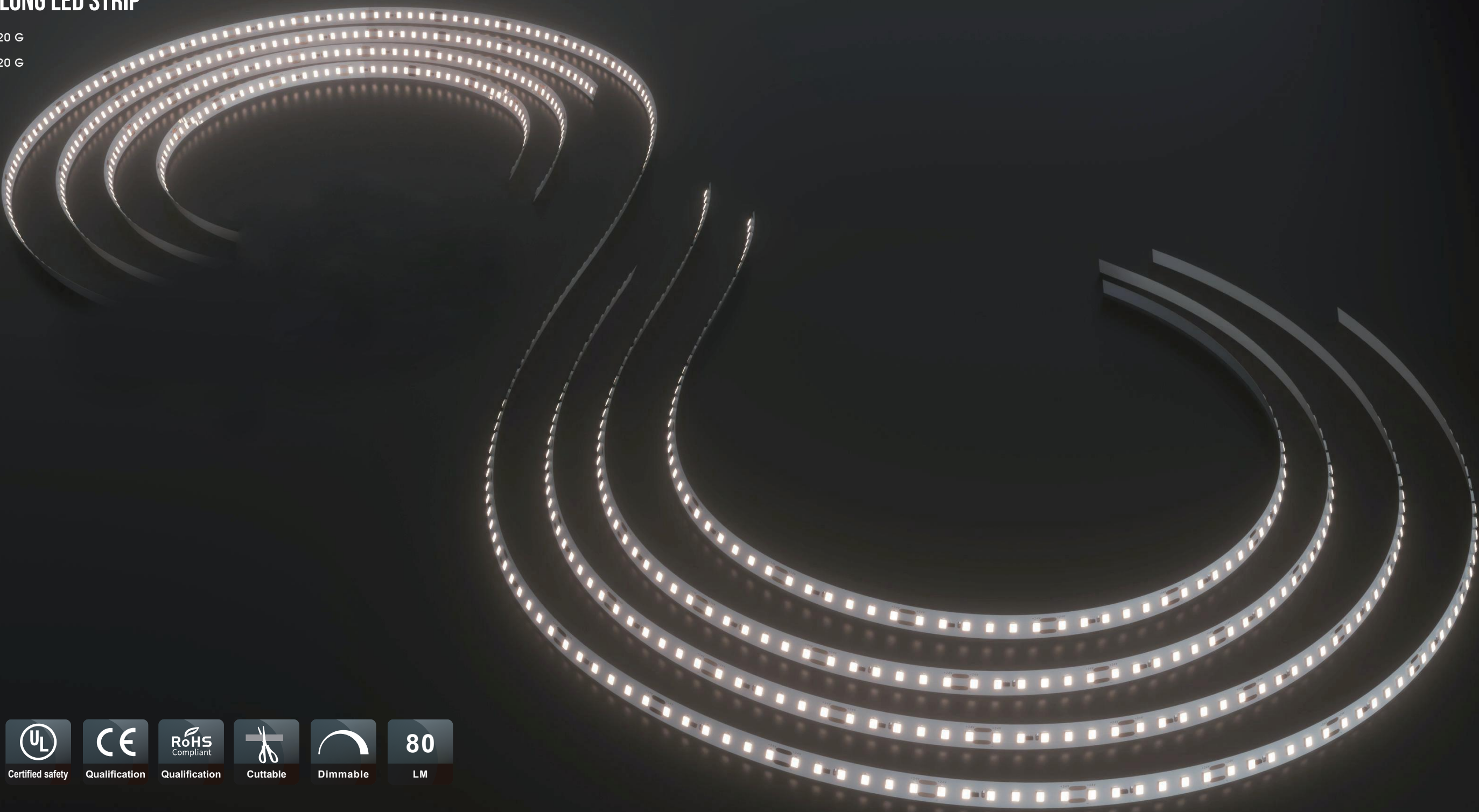
APPLICATION SCENARIOS

BLOOM SERIES

2835 IC ULTRA-LONG LED STRIP

7.2W CRI90 120LED/m IP20 G

9.6W CRI90 120LED/m IP20 G





ErP
ERP compliant



Reach



Certified safety



Qualification



Qualification



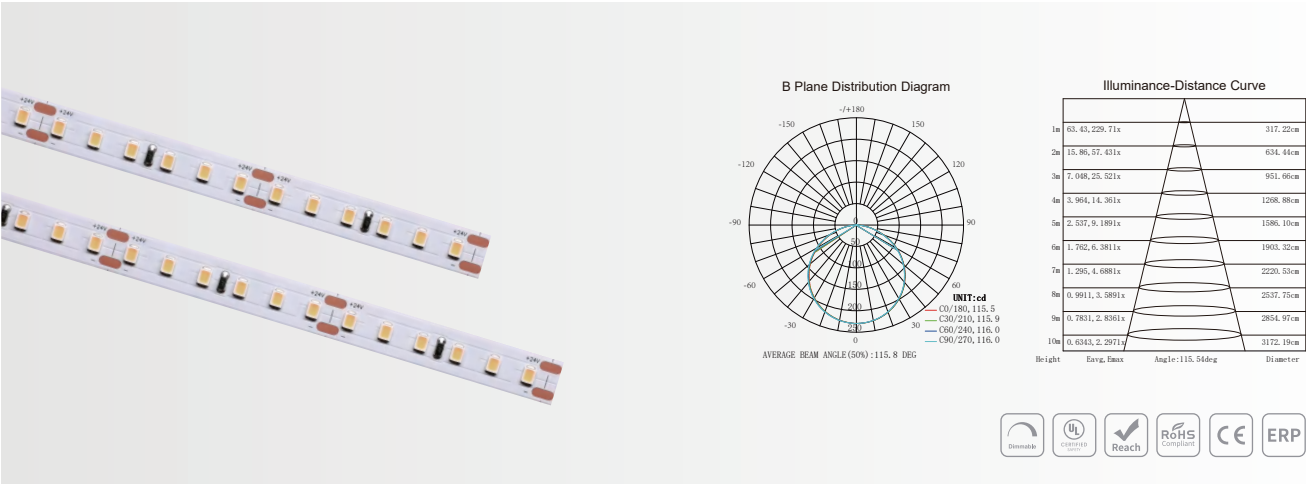
Cuttable



Dimmable



80
LM



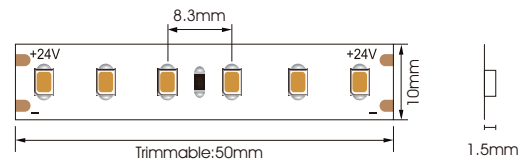
7.2W CRI90 120LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m ±10%	: 7.2W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (5% lumen drop)	: 20m
Cut Size	: 50mm

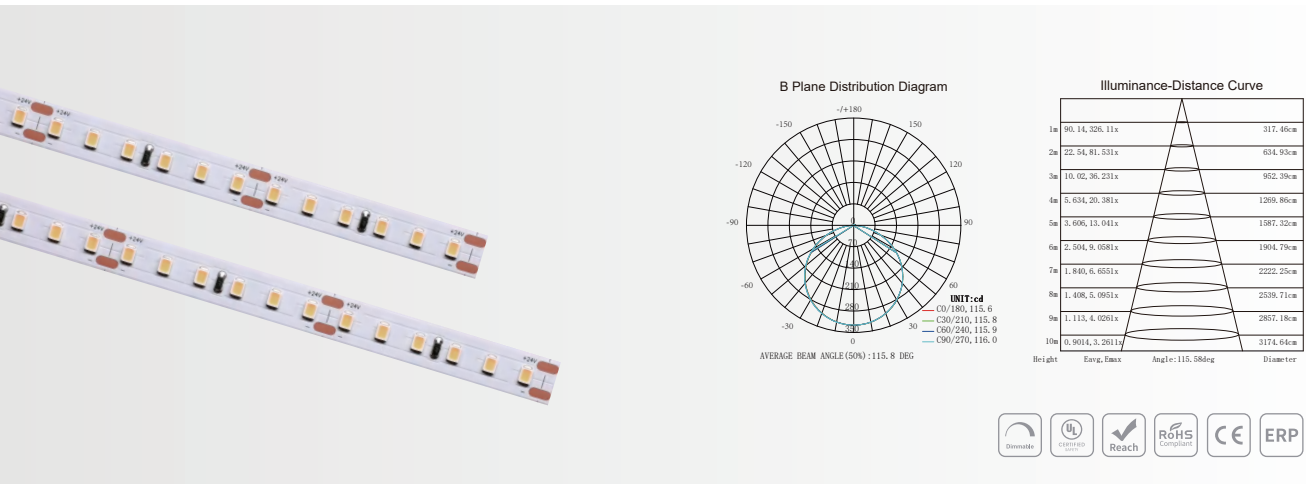
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24120T09-0A29	7.2	2700	87	630	>90/>40		≤3	20/66
CLT-INNF24120T09-0A29	7.2	3000	90	650	>90/>40		≤3	20/66
CLT-DNNF24120T09-0A29	7.2	4000	93	670	>90/>40		≤3	20/66
CLT-WNNF24120T09-0A29	7.2	6500	93	670	>90/>40		≤3	20/66



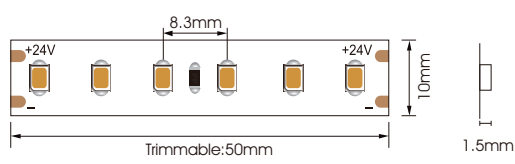
9.6W CRI90 120LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m ±10%	: 9.6W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (5% lumen drop)	: 15m
Cut Size	: 50mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24120T09-0A39	9.6	2700	90	865	>90/>40		≤3	20/66
CLT-INNF24120T09-0A39	9.6	3000	92	880	>90/>40		≤3	20/66
CLT-DNNF24120T09-0A39	9.6	4000	96	920	>90/>40		≤3	20/66
CLT-WNNF24120T09-0A39	9.6	6500	96	920	>90/>40		≤3	20/66



APPLICATION SCENARIOS

BLOOM SERIES

2835 FULL SPECTRUM LED STRIP

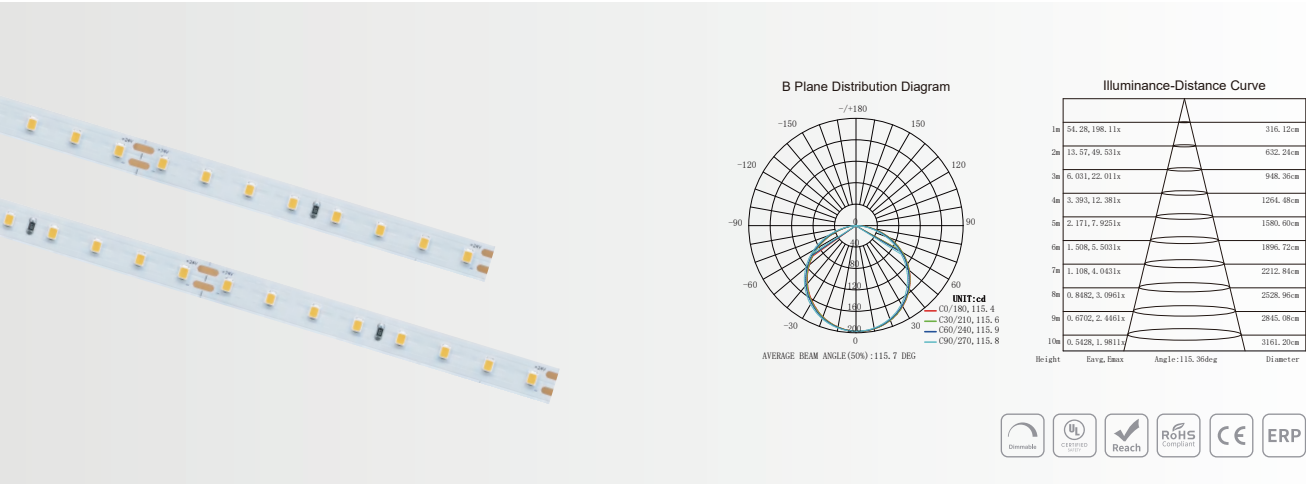
4.8W CRI95 R1-R15>90 80LED/m IP20 F

9.6W CRI95 R1-R15>90 160LED/m IP20 F

14.4W CRI95 R1-R15>90 80LED/m IP20 F

19.2W CRI95 R1-R15>90 160LED/m IP20 F





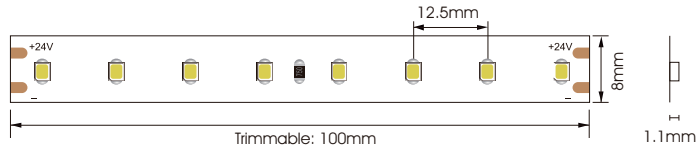
4.8W CRI95 R1-R15 > 90 80LED/m IP20 F

Electrical Data

Light Beads	: 2835
Number Led/M	: 80pcs
Power W/m±10%	: 4.8W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >95
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

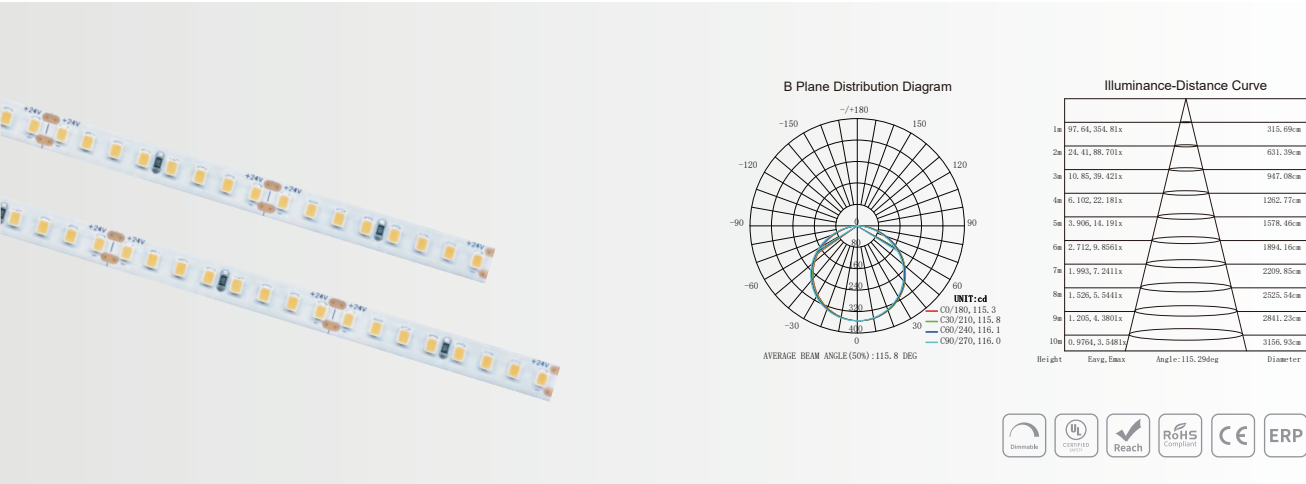
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24080T09-8A26	4.8	2700	100	480	>95/>90	F	≤5	20(54/66/67)
CLT-INNF24080T09-8A26	4.8	3000	110	528	>95/>90	F	≤5	20(54/66/67)
CLT-DNNF24080T09-8A26	4.8	4000	115	552	>95/>90	F	≤5	20(54/66/67)



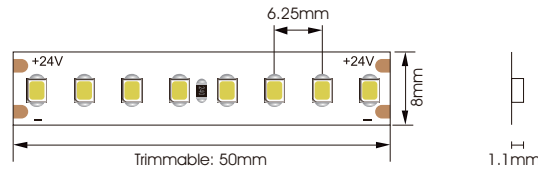
9.6W CRI95 R1-R15 > 90 160LED/m IP20 F

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >95
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

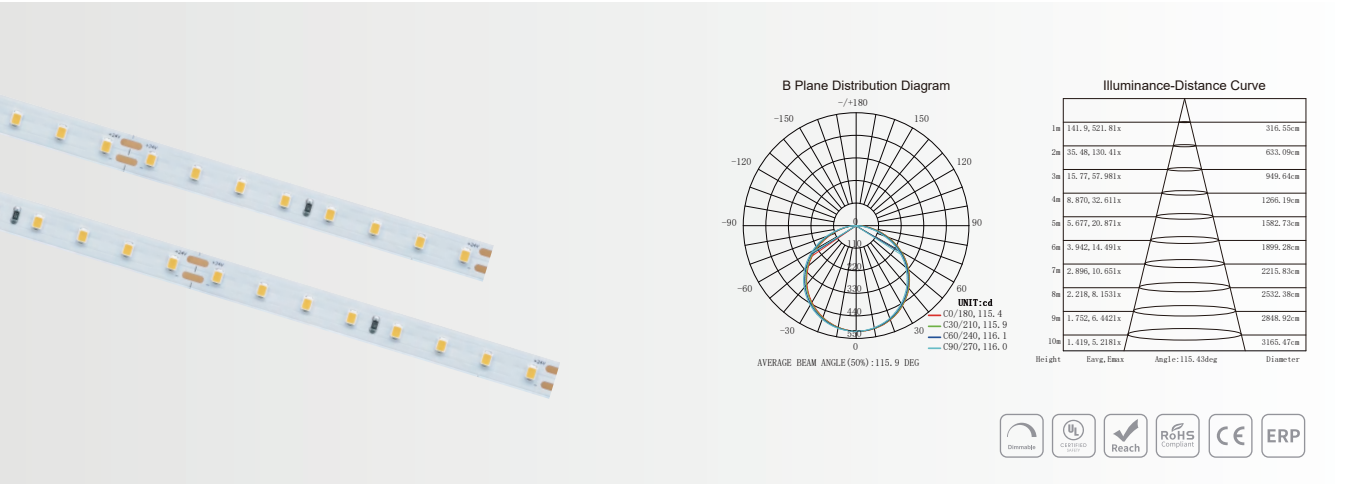
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-8A26	9.6	2700	100	960	>95/>90	F	≤5	20(54/66/67)
CLT-INNF24160T09-8A26	9.6	3000	110	1056	>95/>90	F	≤5	20(54/66/67)
CLT-DNNF24160T09-8A26	9.6	4000	115	1104	>95/>90	F	≤5	20(54/66/67)



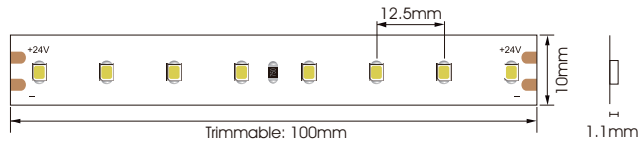
14.4W CRI95 R1-R15 > 90 80LED/m IP20 F

Electrical Data

Light Beads	: 2835
Number Led/M	: 80pcs
Power W/m ±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >95
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

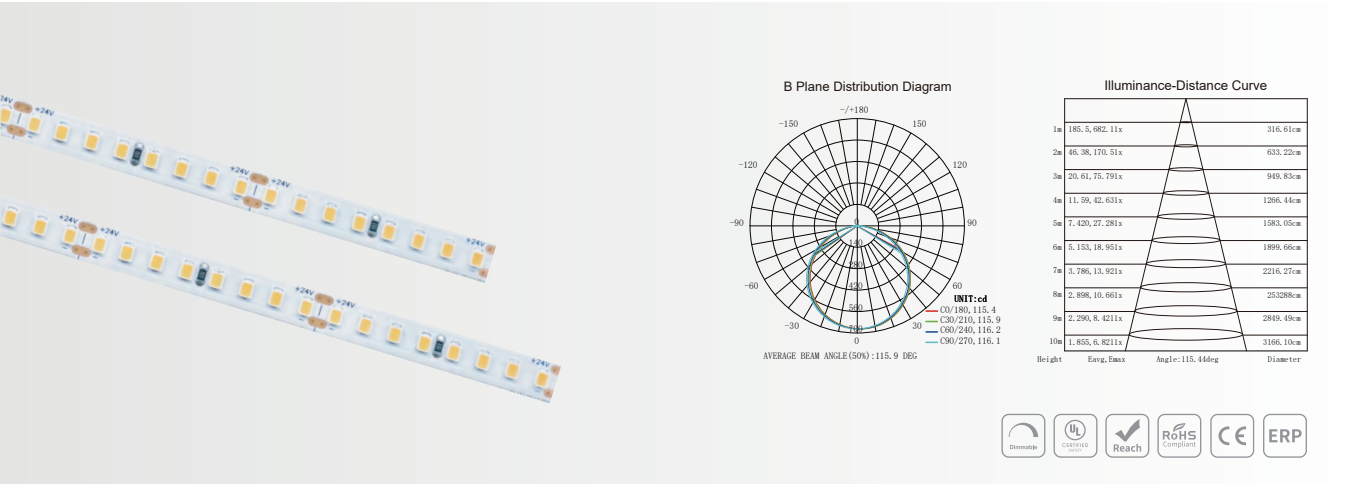
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24080T09-0A66	14.4	2700	95	1368	>95/>90	F	≤5	20(54/66/67)
CLT-INNF24080T09-0A66	14.4	3000	100	1440	>95/>90	F	≤5	20(54/66/67)
CLT-DNNF24080T09-0A66	14.4	4000	105	1512	>95/>90	F	≤5	20(54/66/67)



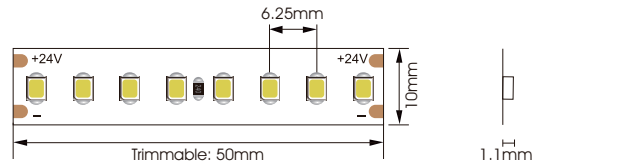
19.2W CRI95 R1-R15 > 90 160LED/m IP20 F

Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m ±10%	: 9.6W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >95
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNNF24160T09-0A26	19.2	2700	95	1824	>95/>90	F	≤5	20(54/66/67)
CLT-INNF24160T09-0A26	19.2	3000	100	1920	>95/>90	F	≤5	20(54/66/67)
CLT-DNNF24160T09-0A26	19.2	4000	105	2016	>95/>90	F	≤5	20(54/66/67)



APPLICATION SCENARIOS

BLOOM SERIES

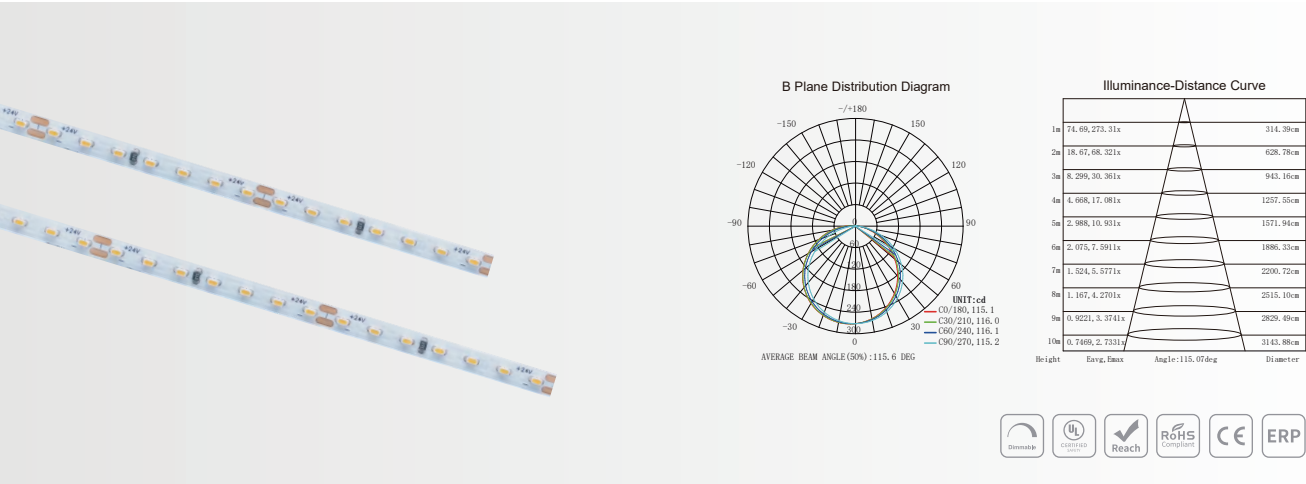
ULTRA-NARROW LED STRIP

2110 9.6W CRI90 168LED/m IP20 G

2835 9.6W CRI90 140LED/m IP20 G

2835 9.6W CRI90 144LED/m IP20 G





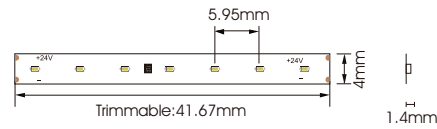
9.6W CRI90 168LED/m IP20 G

Electrical Data

Light Beads	: 2110
Number Led/M	: 168pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 4mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 41.67mm

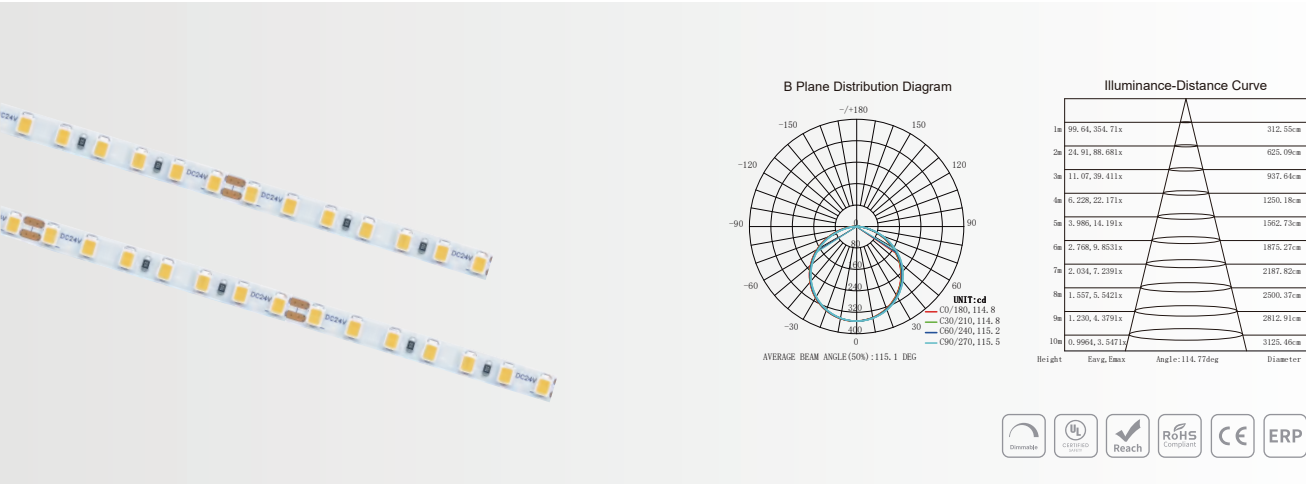
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24168T10-BA39	9.6	2700	77	740	>90/>40		≤5	20(54/66/67)
CLT-INNF24168T10-BA39	9.6	3000	80	760	>90/>40		≤5	20(54/66/67)
CLT-DNNF24168T10-BA39	9.6	4000	85	820	>90/>40		≤5	20(54/66/67)
CLT-WNNF24168T10-BA39	9.6	6500	85	820	>90/>40		≤5	20(54/66/67)



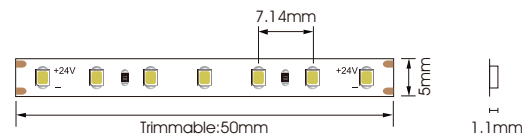
9.6W CRI90 140LED/m IP20 F

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

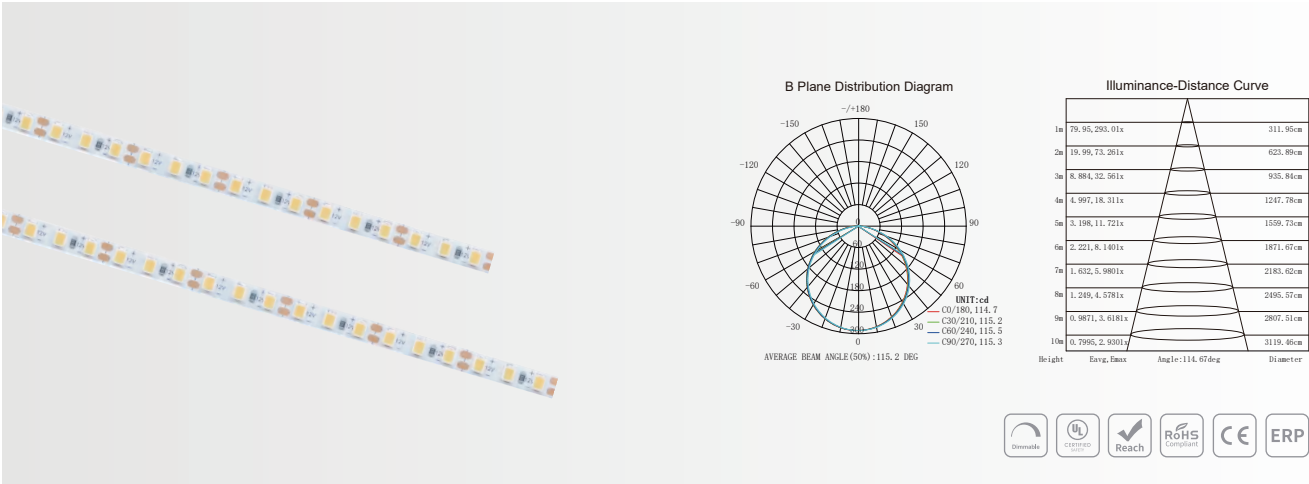
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF24140T09-5A29	9.6	2700	93	892	>90/>40		≤5	20(54/66/67)
CLT-INNF24140T09-5A29	9.6	3000	95	910	>90/>40		≤5	20(54/66/67)
CLT-DNNF24140T09-5A29	9.6	4000	97	930	>90/>40		≤5	20(54/66/67)
CLT-WNNF24140T09-5A29	9.6	6500	97	930	>90/>40		≤5	20(54/66/67)



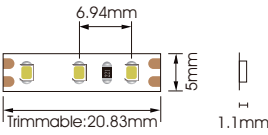
9.6W CRI90 144LED/m IP20 G

Electrical Data

Light Beads	: 2835
Number Led/M	: 144pcs
Power W/m ± 10%	: 9.6W
Voltage	: 12V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 20.83mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNNF12144T09-5A29	9.6	2700	77	740	>90/>40		≤ 5	20(54/66/67)
CLT-INNF12144T09-5A29	9.6	3000	80	770	>90/>40		≤ 5	20(54/66/67)
CLT-DNNF12144T09-5A29	9.6	4000	85	820	>90/>40		≤ 5	20(54/66/67)
CLT-WNNF12144T09-5A29	9.6	6500	85	820	>90/>40		≤ 5	20(54/66/67)



APPLICATION SCENARIOS

HONOR SERIES

2216 PRO LED STRIP

10W CRI90 120LED/m IP20 F

10W CRI90 200LED/m IP20 F

6W CRI90 240LED/m IP20 F (Ultra-narrow)

15W CRI90 280LED/m IP20 F

15W CRI90 320LED/m IP20 F

20W CRI90 320LED/m IP20 F

Waterproof
IP54

Waterproof
IP66

Waterproof
IP67

Waterproof
NEON

ErP
ERP compliant

✓
Reach

UL
Certified safety

CE
Qualification

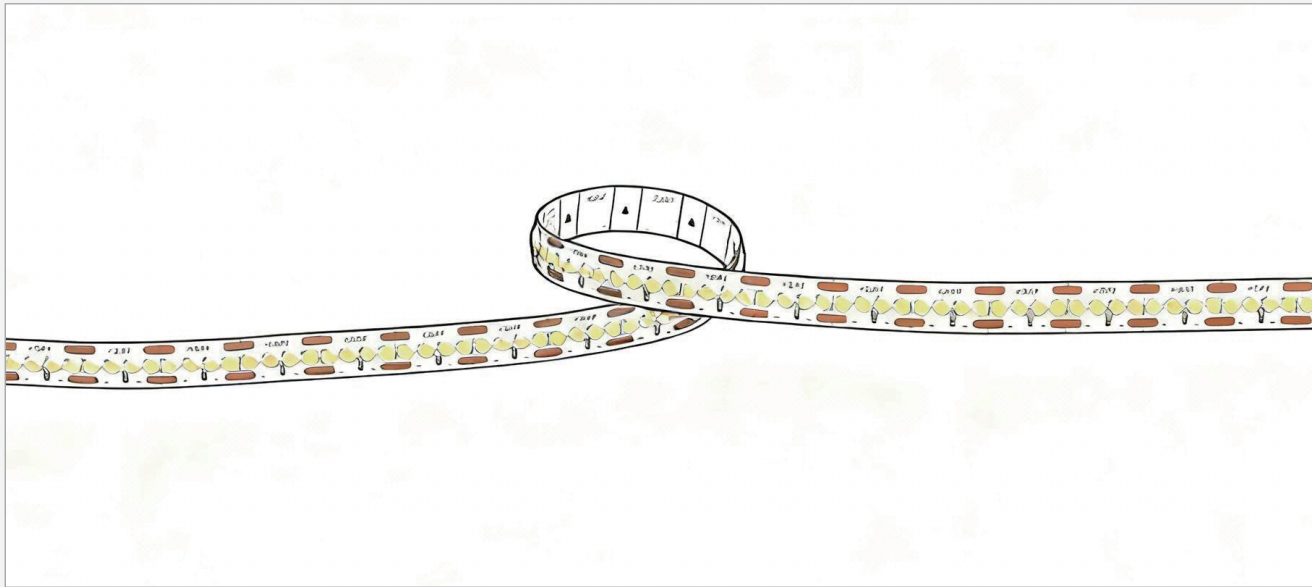
RoHS
Compliant
Qualification

✂
Cutttable

⤿
Dimmable

2216 Pro LED Strip – Design Overview

The 2216 Pro LED Strip is an enhanced and upgraded version of the standard 2216 LED Strip. By optimizing the lead frame structure, LED layout, and manufacturing processes, it delivers comprehensive improvements in lighting performance, practicality, and reliability. It is specifically designed for more refined lighting applications, such as ultra-narrow spaces and high-end decorative lighting.



【 Key Upgrades of the 2216 Pro LED Strip vs. Standard Version 】

• Higher Luminous Efficacy & Improved Lighting Experience

Under the same electrical parameters, brightness is increased by 20-40%. With a high CRI (>90), the light output is more uniform and color rendering is significantly improved.

• Upgraded Energy Efficiency

The 2216 Pro LED Strip achieves ERP energy efficiency class E/F across the full range, fully compliant with ERP requirements, while some standard versions do not meet ERP standards.

• Greater Installation Flexibility

The minimum cutting length is reduced from 20 mm (standard version) to 7.14 mm. Combined with ultra-narrow 4 mm / 8 mm / 10 mm PCBs, it is ideal for cabinets, grooves, and other extremely confined installation spaces.

• Enhanced Reliability

The average push force is increased to 9.48 N (vs. 6.62 N for the standard version), delivering approximately 40% higher durability.

• Upgraded Optical Structure

A 45° LED placement design improves torsional resistance and ensures more uniform light distribution. The standard version uses a conventional layout with comparatively lower lighting uniformity.

【 Comparison Overview: 2216 Pro LED Strip vs. Standard 2216 LED Strip 】

Comparison Criteria	2216 Pro LED Strip	Standard 2216 LED Strip
Luminous Efficacy & Lighting Performance	119.6 lm/W, brightness increased by 20–40%	81.92 lm/W, average lighting performance
LED Density & Power	120 LEDs/m (8 mm PCB / 10 W)	120 LEDs/m (8 mm PCB / 9.6 W)
ERP Energy Efficiency Rating	Full series compliant with ERP Class E/F	Some models do not comply with ERP standards
Minimum Cutting Length	7.14 mm (significantly improved installation flexibility)	20 mm
Average Push Force (Reliability)	9.48 N (approximately 40% higher durability)	6.62 N
LED Arrangement	45° layout, improved torsional resistance, more uniform brightness	Conventional layout, weaker torsional resistance, uneven brightness



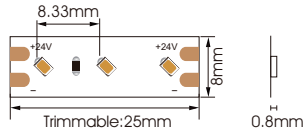
10W CRI90 120LED/m IP20 F

Electrical Data

Light Beads	: 2216
Number Led/M	: 120pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 25mm

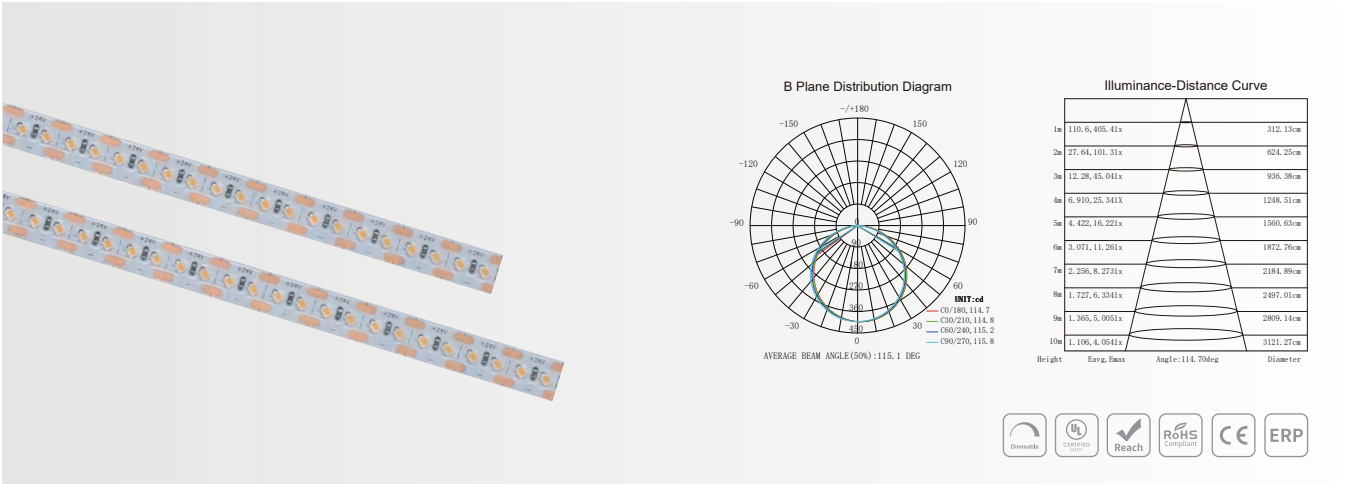
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNGF24120T16-8A19	10	2700	100	1000	>90/>40	F	≤ 5	20(54/66)
CLT-INGF24120T16-8A19	10	3000	105	1050	>90/>40	F	≤ 5	20(54/66)
CLT-DNGF24120T16-8A19	10	4000	110	1100	>90/>40	F	≤ 5	20(54/66)
CLT-WNGF24120T16-8A19	10	6500	110	1100	>90/>40	F	≤ 5	20(54/66)



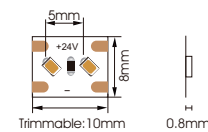
10W CRI90 200LED/m IP20 F

Electrical Data

Light Beads	: 2216
Number Led/M	: 200pcs
Power W/m±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 10mm

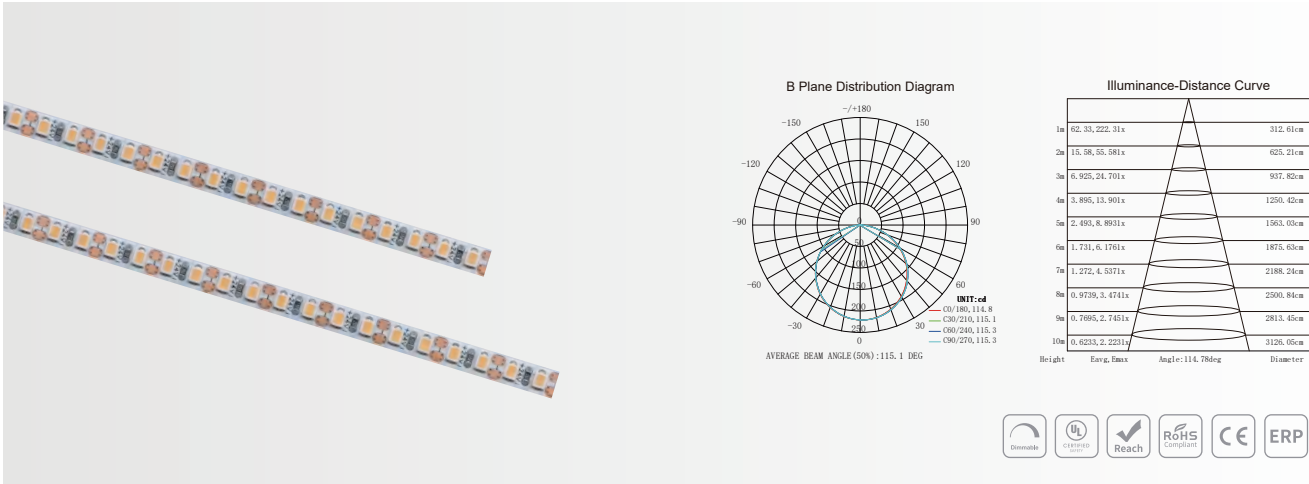
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNGF24200T16-8A19	10	2700	100	1000	>90/>40	F	≤ 5	20(54/66)
CLT-INGF24200T16-8A19	10	3000	105	1050	>90/>40	F	≤ 5	20(54/66)
CLT-DNGF24200T16-8A19	10	4000	110	1100	>90/>40	F	≤ 5	20(54/66)
CLT-WNGF24200T16-8A19	10	6500	110	1100	>90/>40	F	≤ 5	20(54/66)



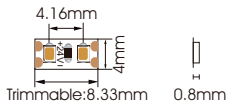
6W CRI90 240LED/m IP20 F Ultra-narrow

Electrical Data

Light Beads	: 2216
Number Led/M	: 240pcs
Power W/m±10%	: 6W
Voltage	: 24V
PCB Width	: 4mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 8.33mm

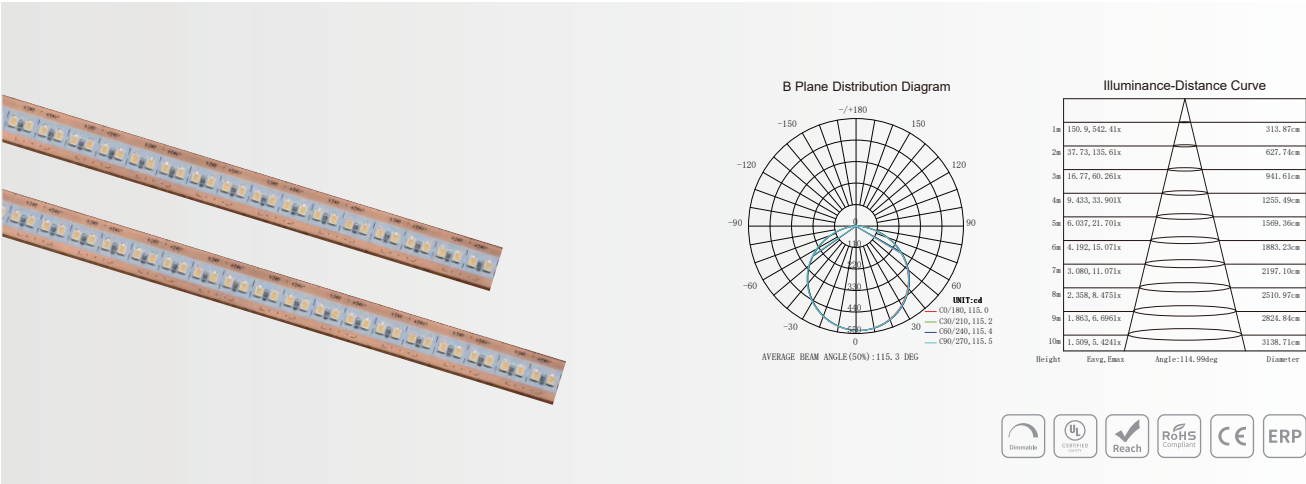
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNGF24240T16-BA19	6	2700	102	624	>90/>40	F	≤5	20/66
CLT-INGF24240T16-BA19	6	3000	105	654	>90/>40	F	≤5	20/66
CLT-DNGF24240T16-BA19	6	4000	114	732	>90/>40	F	≤5	20/66
CLT-WNGF24240T16-BA19	6	6500	114	684	>90/>40	F	≤5	20/66



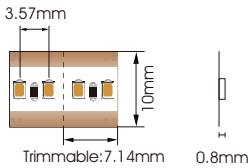
15W CRI90 280LED/m IP20 F

Electrical Data

Light Beads	: 2216
Number Led/M	: 280pcs
Power W/m±10%	: 15W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 7.14mm

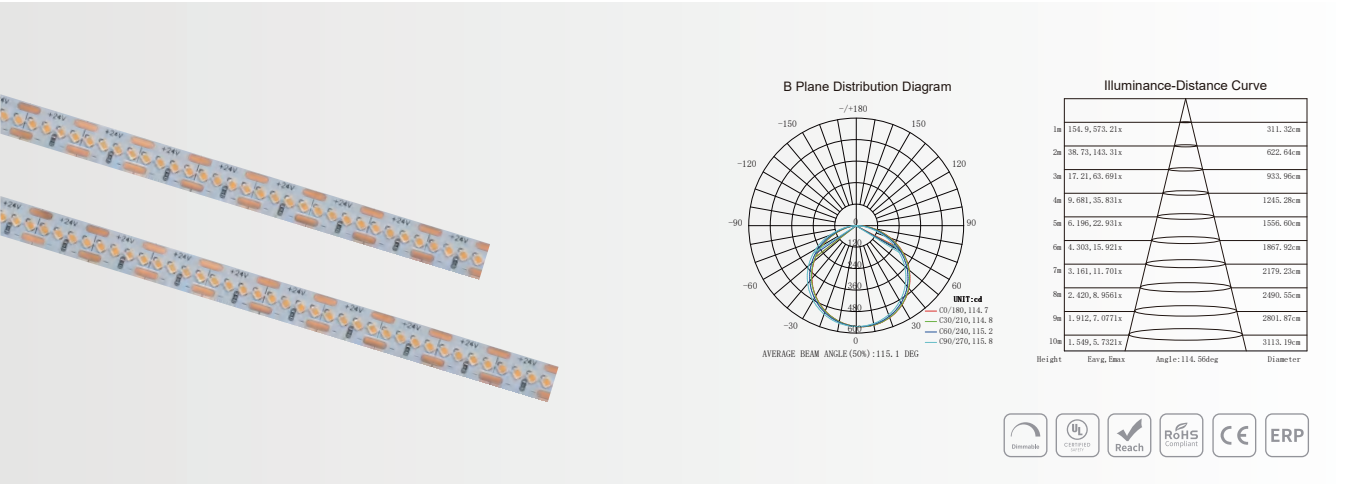
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT/-KNGF24280T16-0A19	15	2700	99	1485	>90/>40	F	≤5	20/66
CLT-INGF24280T16-0A19	15	3000	105	1575	>90/>40	F	≤5	20/66
CLT-DNGF24280T16-0A19	15	4000	117	1755	>90/>40	F	≤5	20/66
CLT-WNGF24280T16-0A19	15	6500	109	1635	>90/>40	F	≤5	20/66



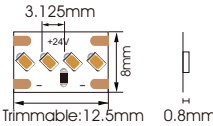
15W CRI90 320LED/m IP20 F

Electrical Data

Light Beads	: 2216
Number Led/M	: 320pcs
Power W/m±10%	: 15W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 4m
Cut Size	: 12.5mm

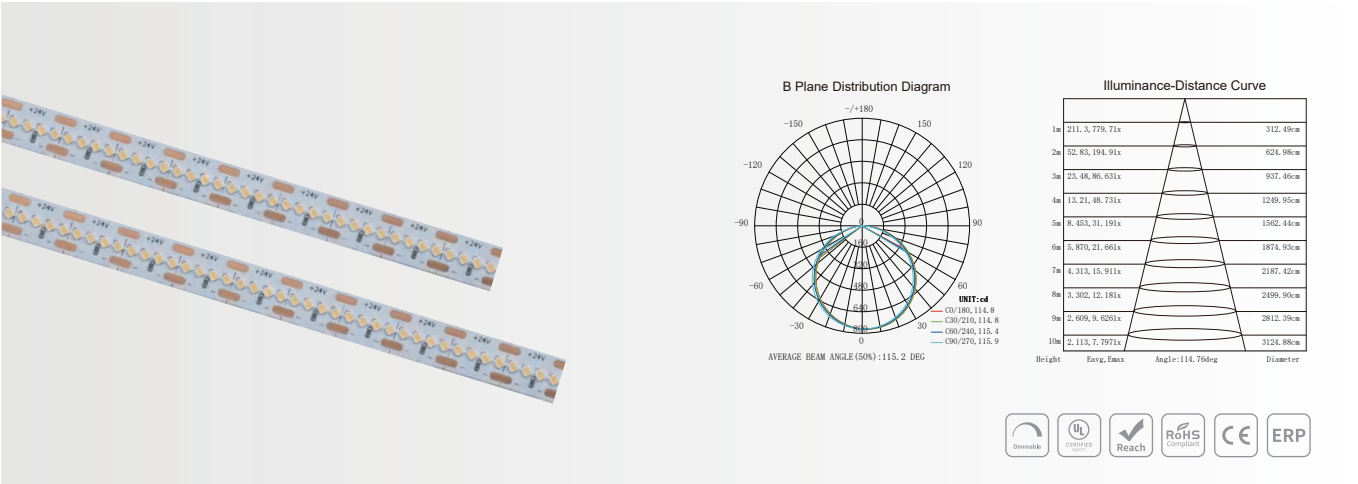
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24320T16-8A19	15	2700	100	1500	>90/>40	F	≤5	20(54/66)
CLT-INGF24320T16-8A19	15	3000	102	1530	>90/>40	F	≤5	20(54/66)
CLT-DNGF24320T16-8A19	15	4000	110	1650	>90/>40	F	≤5	20(54/66)
CLT-WNGF24320T16-8A19	15	6500	110	1650	>90/>40	F	≤5	20(54/66)



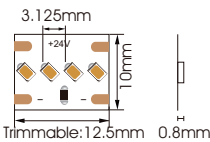
20W CRI90 320LED/m IP20 F

Electrical Data

Light Beads	: 2216
Number Led/M	: 320pcs
Power W/m±10%	: 20W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 4m
Cut Size	: 12.5mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

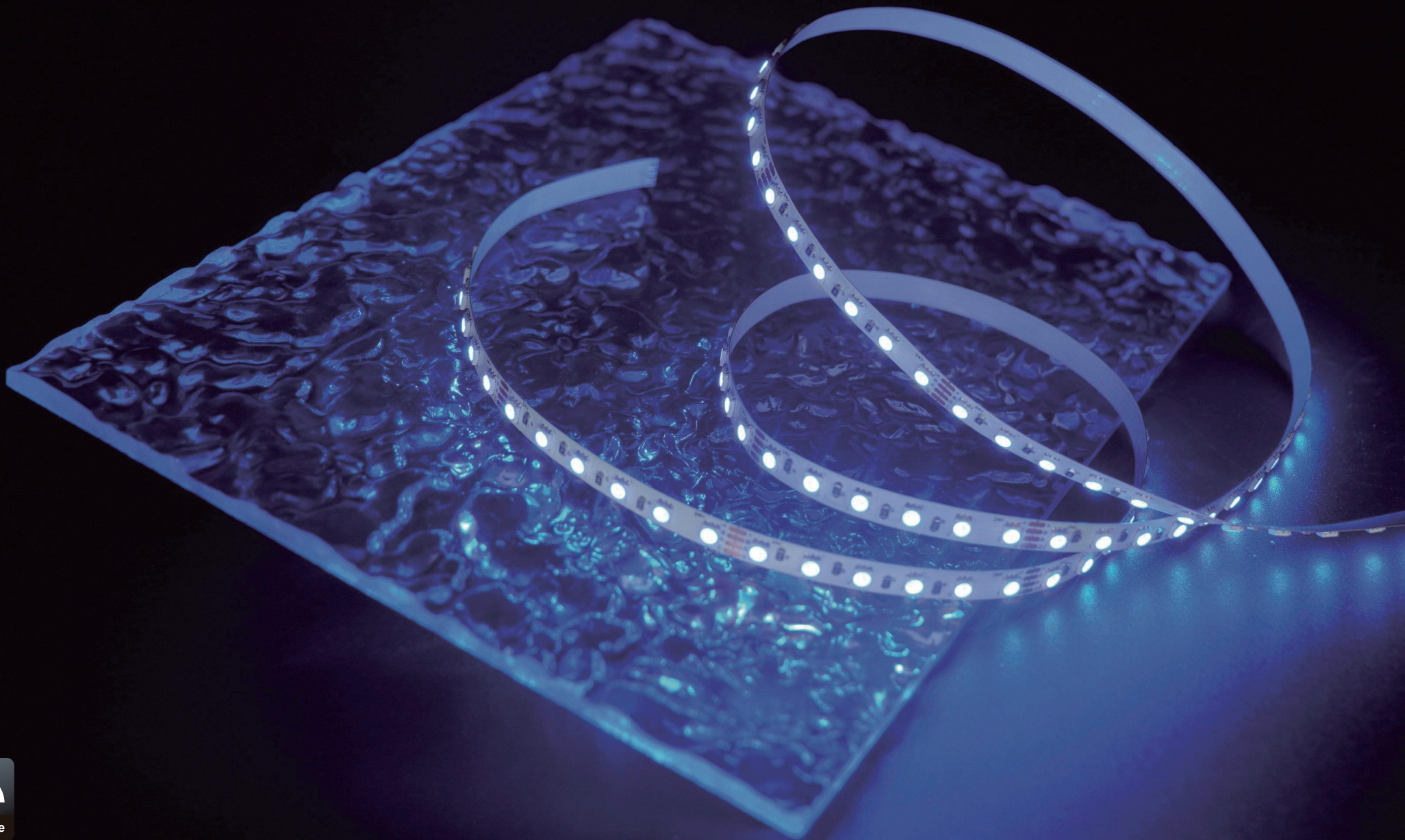
Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNGF24320T16-0A19	20	2700	100	2000	>90/>40	F	≤5	20(54/66)
CLT-INGF24320T16-0A19	20	3000	102	2040	>90/>40	F	≤5	20(54/66)
CLT-DNGF24320T16-0A19	20	4000	110	2200	>90/>40	F	≤5	20(54/66)
CLT-WNGF24320T16-0A19	20	6500	110	2200	>90/>40	F	≤5	20(54/66)



PASSION SERIES

2835 RGB LED STRIP

- 10W 120LED/m 12V RGB
- 12W 120LED/m 24V RGB (Ultra-narrow)
- 14.4W 120LED/m 24V RGB
- 12W 180LED/m 24V RGB
- 20W 240LED/m 24V RGB+W
- 24W 288LED/m 24V RGB+WW

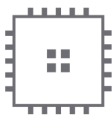


Basic Introduction to Professional RGB LED Strips

The COOLIGHT RGB Series is developed based on advanced multi-LED packaging technologies and currently covers a wide range of RGB LED strips using 2835, 5050, CSP, and 1612 LEDs. The series is highly adaptable to residential, commercial, and entertainment applications, achieving an optimal balance between practicality, stability, and aesthetic performance.

An RGB LED strip consists of LED packages in which each LED integrates red, green, and blue chips. Each chip can emit monochromatic red, green, or blue light independently, or be combined in dual-chip or tri-chip operation to generate a wide spectrum of mixed colors, enabling rich and dynamic lighting effects.

The COOLIGHT “PASSION SERIES” RGB LED Strip is meticulously engineered by the COOLIGHT R&D team. From luminous output, color rendering performance, and service life to intelligent control compatibility and customized.



Highlight chip



Preferred LEDs



16 million full color



Brightness adjustable



Intelligent control



Low voltage design

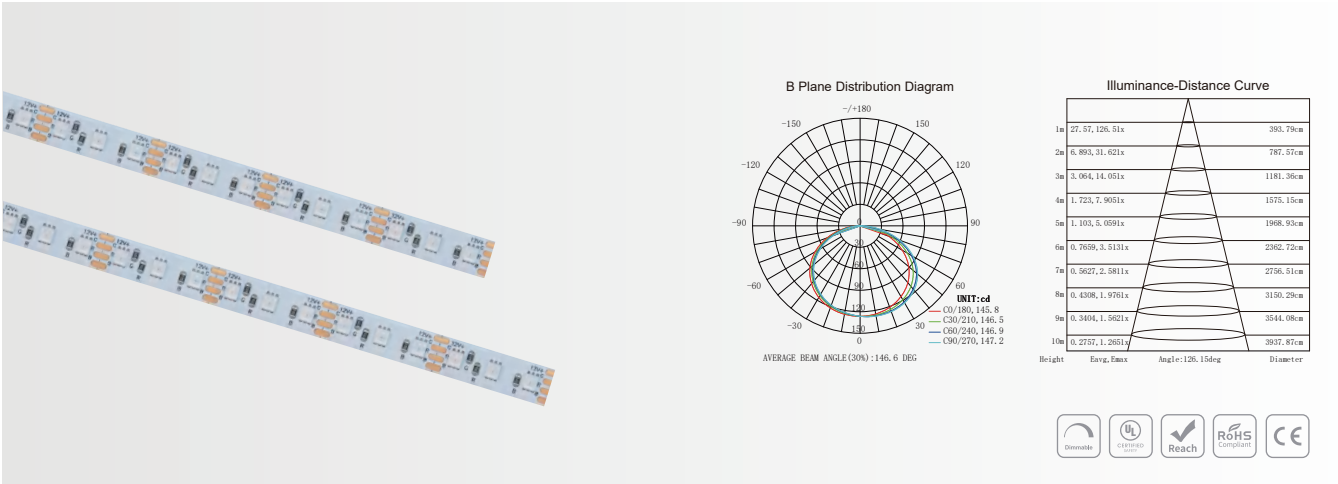


Constant current protection



Portable installation





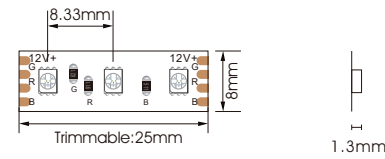
10W 120LED/m 12V RGB

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m ±10%	: 10W
Voltage	: 12V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 25mm

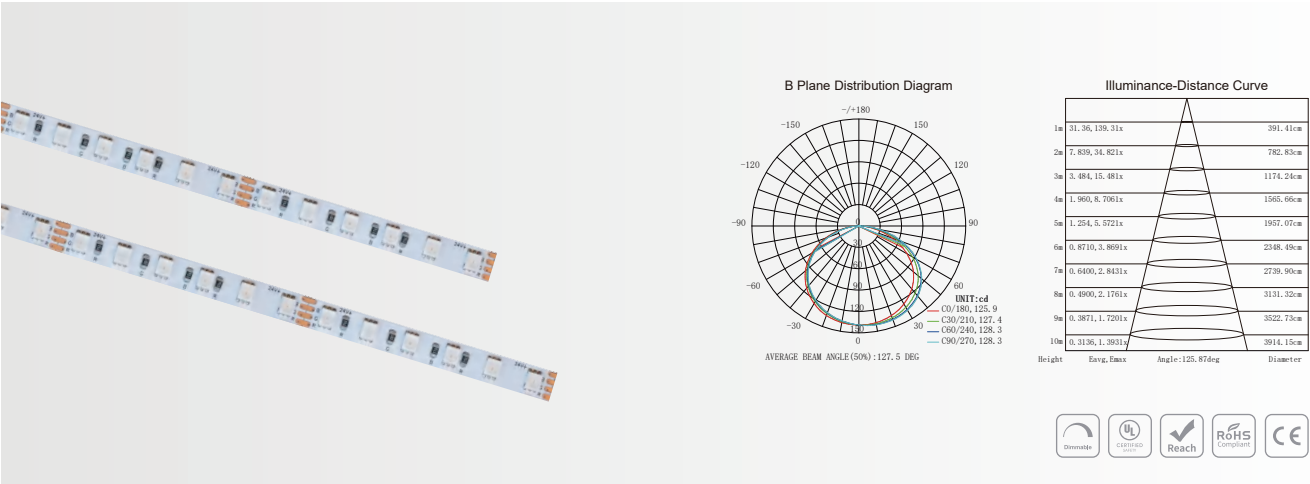
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF12120T09-8A20	10	12	R	620-630	96	/	/	20(54/66/67)
			G	515-525	300	/	/	20(54/66/67)
			B	460-470	66	/	/	20(54/66/67)
			RGB	/	452	/	/	20(54/66/67)



12W 120LED/m 24V RGB

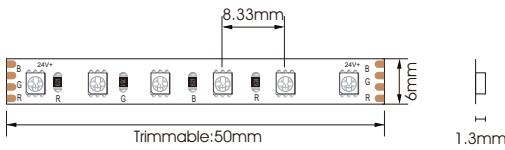
Ultra-narrow

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m ±10%	: 12W
Voltage	: 24V
PCB Width	: 6mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

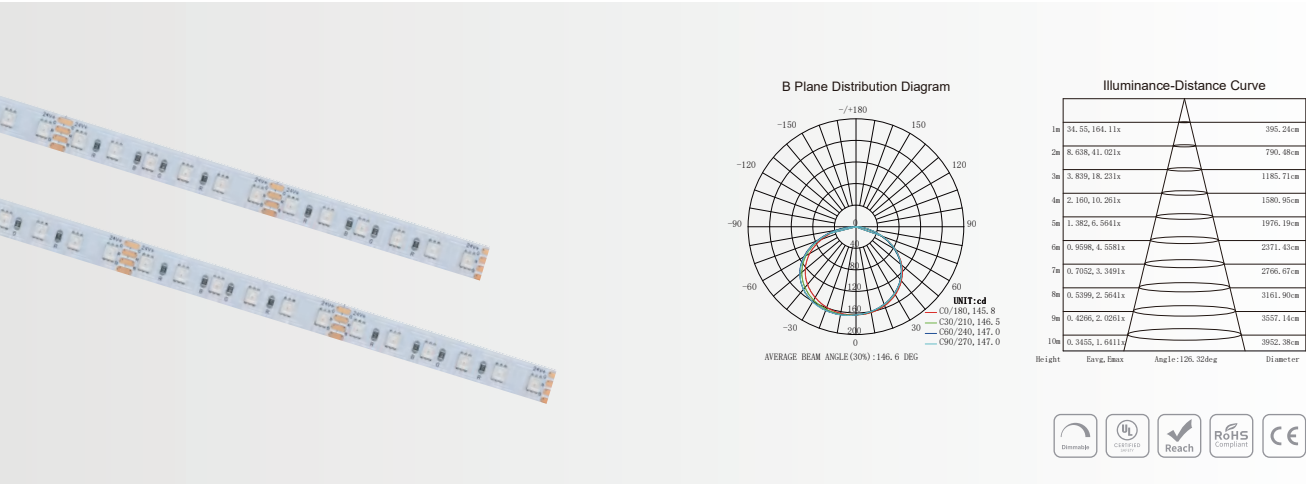
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24120T09-6A30	12	24	R	620-630	108	/	/	20(54/66/67)
			G	515-525	320	/	/	20(54/66/67)
			B	460-470	68	/	/	20(54/66/67)
			RGB	/	460	/	/	20(54/66/67)



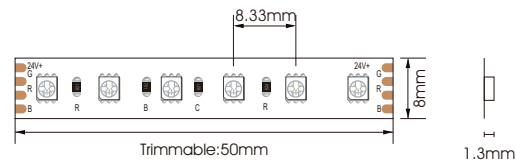
14.4W 120LED/m 24V RGB

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m ±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

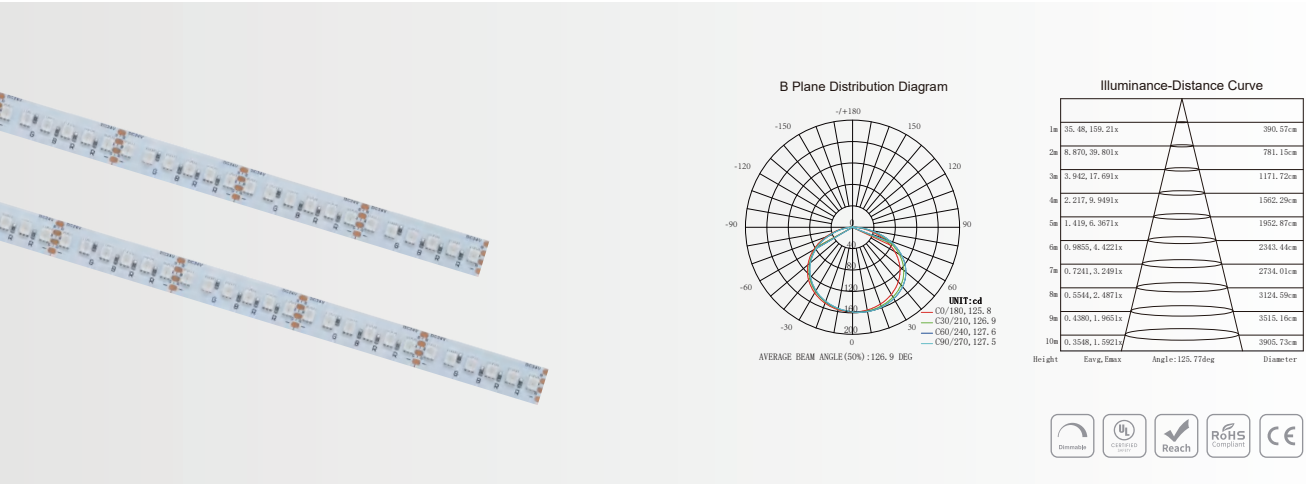
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24120T09 -8A30	14.4	24	R	620-630	136	/	/	20(54/66/67)
			G	515-525	386	/	/	20(54/66/67)
			B	460-470	82	/	/	20(54/66/67)
			RGB	/	588	/	/	20(54/66/67)



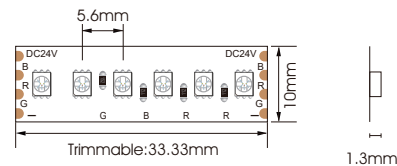
12W 180LED/m 24V RGB

Electrical Data

Light Beads	: 2835
Number Led/M	: 180pcs
Power W/m ±10%	: 12W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 33.33mm

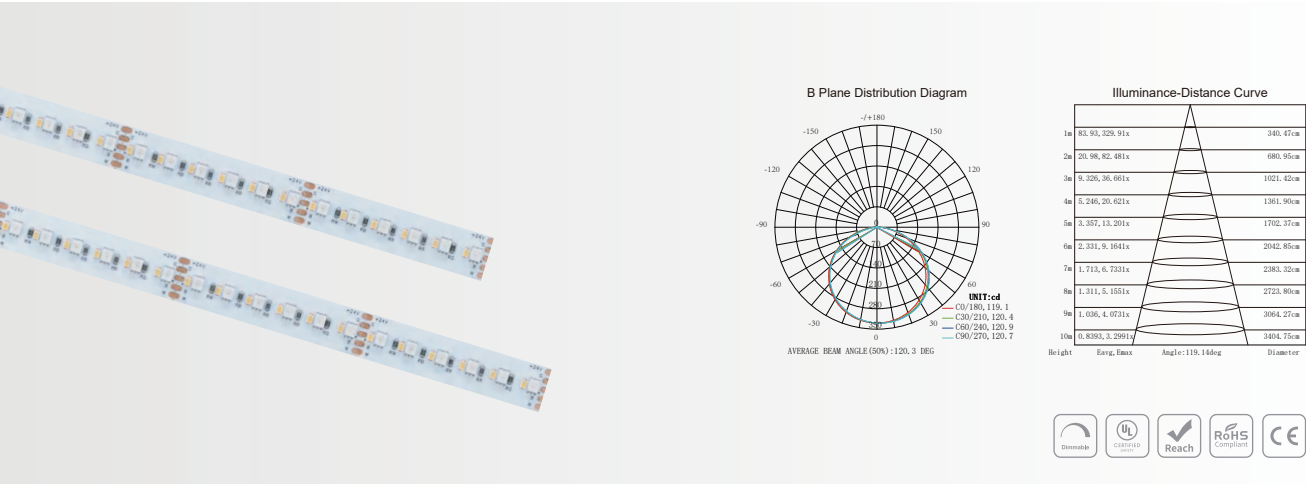
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24180T09-0A20	12	24	R	620-630	100	/	/	20(54/66/67)
			G	515-525	360	/	/	20(54/66/67)
			B	460-470	60	/	/	20(54/66/67)
			RGB	/	500	/	/	20(54/66/67)



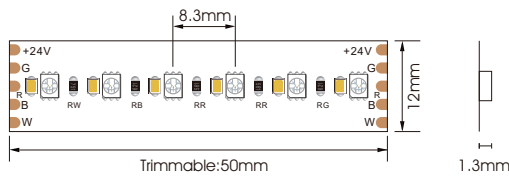
20W 240LED/m 24V RGB+W

Electrical Data

Light Beads	: 2835+2216
Number Led/M	: 240pcs
Power W/m ±10%	: 20W
Voltage	: 24V
PCB Width	: 12mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

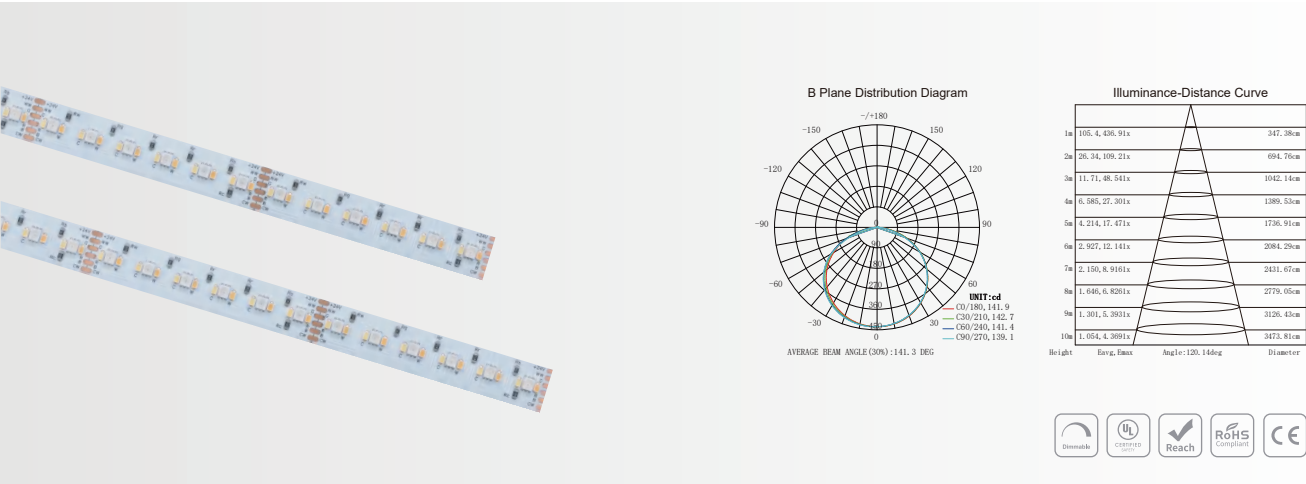
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-IRNF24240T16 -2A39	20	24	R	620-630	120	/	/	20/66
			G	515-525	380	/	/	20/66
			B	460-470	70	/	/	20/66
			W(3000K)	/	420	>90/>40	G	20/66
			RGBW	/	950	>90/>40	/	20/66



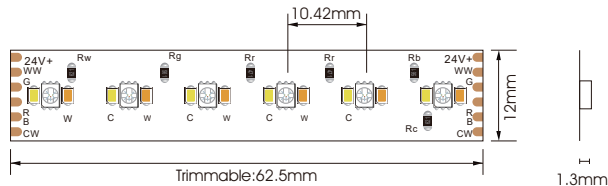
24W 288LED/m 24V RGB+WW

Electrical Data

Light Beads	: 2835+2216
Number Led/M	: 288pcs
Power W/m ±10%	: 24W
Voltage	: 24V
PCB Width	: 12mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 62.5mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-WWNF24288T09-2A79	24	24	R	620-630	138	/	/	20/66
			G	515-525	370	/	/	20/66
			B	460-470	78	/	/	20/66
			W (2400K)	/	390	>90/>40	G	20/66
			W (6500K)	/	434	>90/>40	G	20/66
			RGB+WW	/	1368	>90/>40	/	20/66



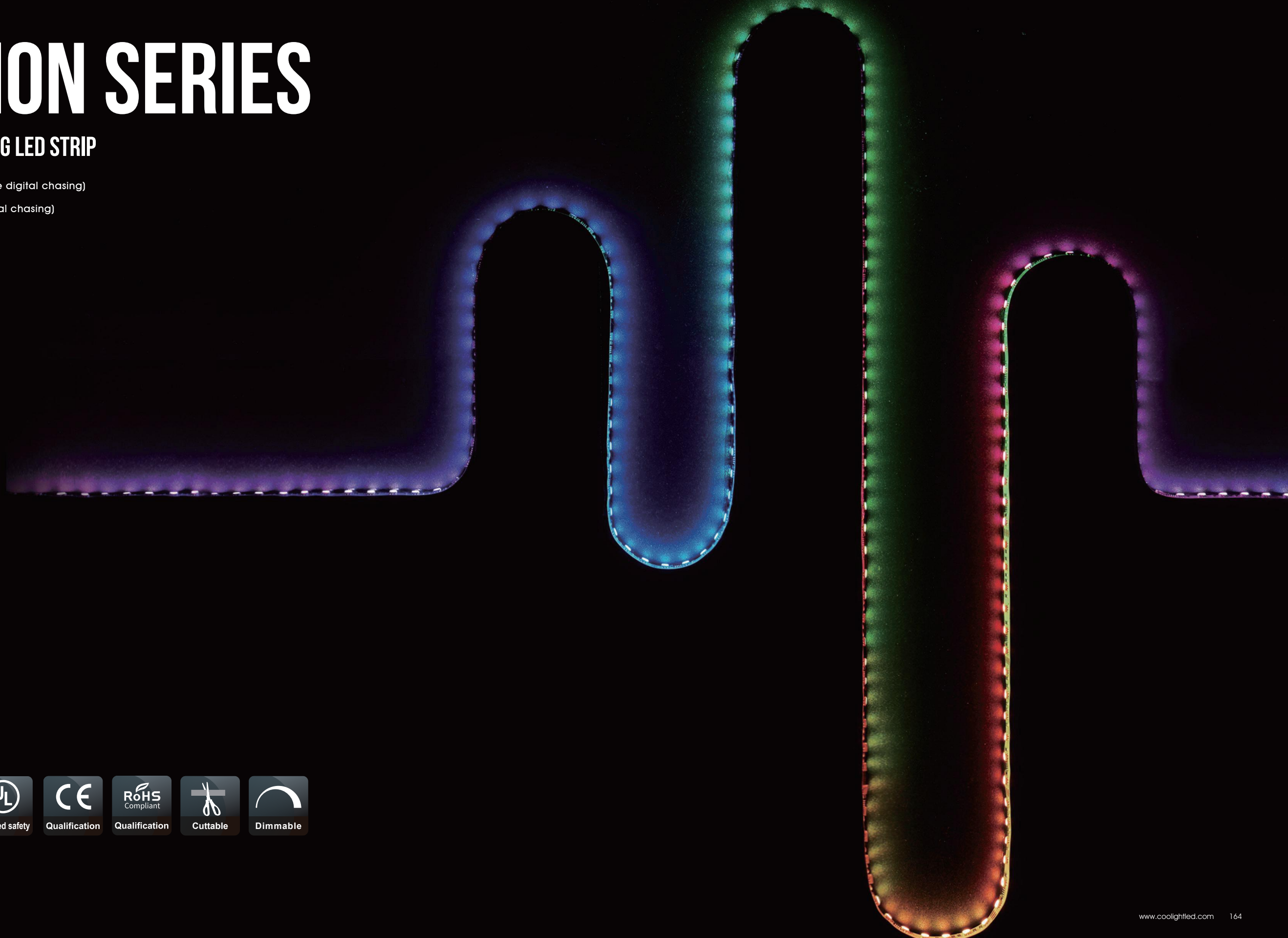
APPLICATION SCENARIOS

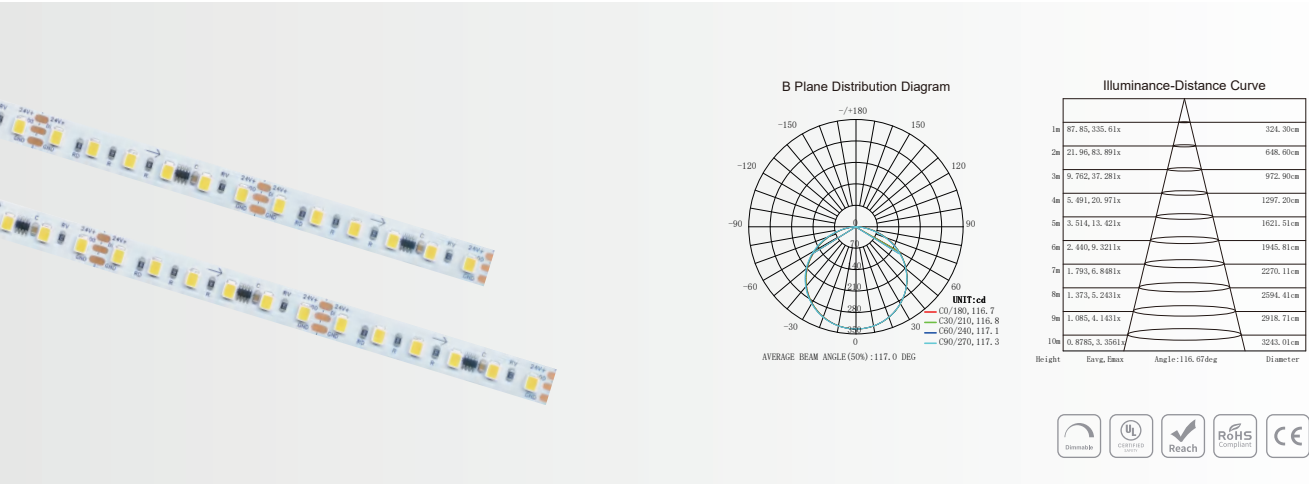
PASSION SERIES

RGB DIGITAL CHASING LED STRIP

9.6W 120LED/m 24V IP20 F(White digital chasing)

14.4W 120LED/m 24V (RGB digital chasing)





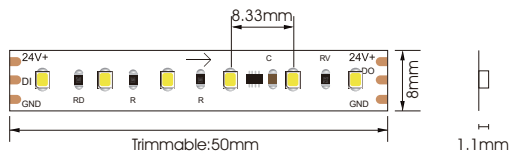
9.6W 120LED/m 24V IP20 F (White digital chasing)

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

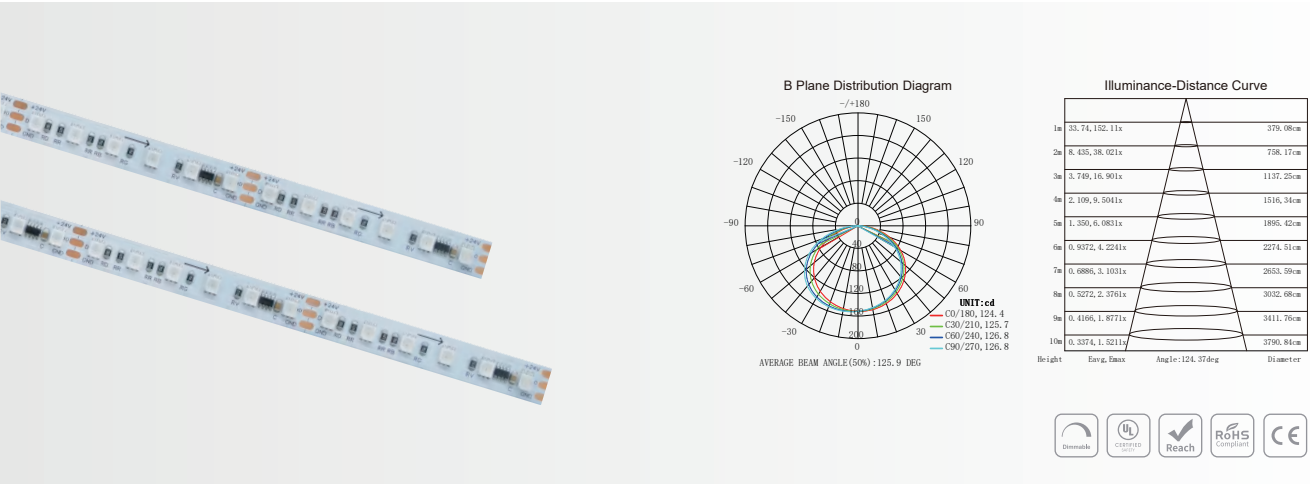
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	CCT (K)	LM/W	LM/M	CRI	Energy efficiency class	IP (Optional)
CLT-DNNF24120T09F-8A28	9.6	24	4000	100	960	>80	F	20/66



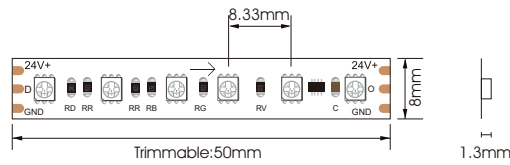
14.4W 120LED/m 24V (RGB digital chasing)

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24120T09-8A20	14.4	24	R	620-630	125	/	/	20/66
			G	515-525	355	/	/	20/66
			B	460-470	80	/	/	20/66
			RGB	/	525	/	/	20/66



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APPLICATION SCENARIOS

PASSION SERIES

5050 RGB LED STRIP

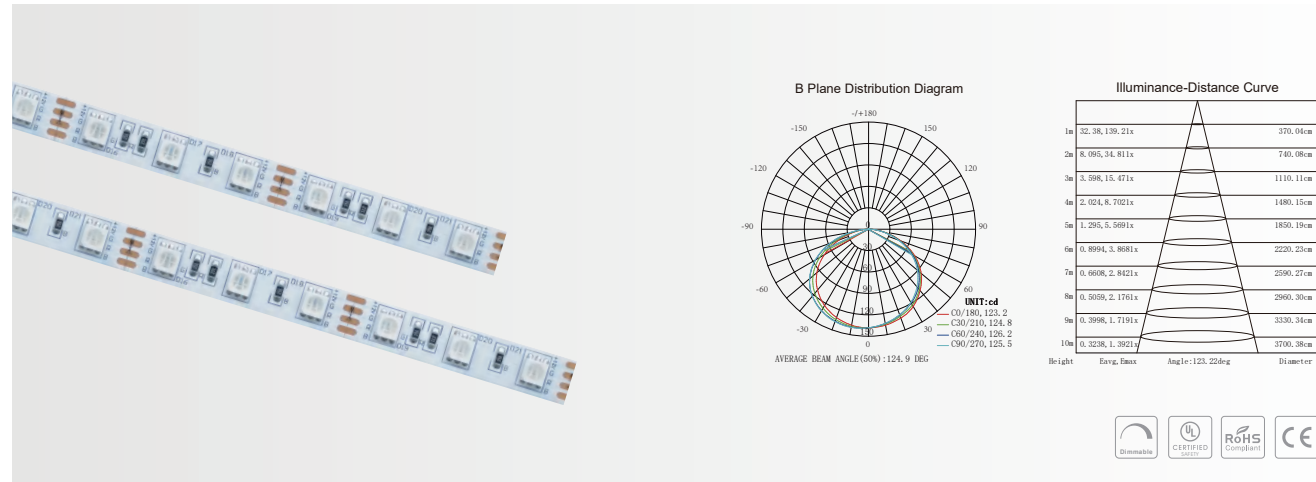
14.4W 60LED/m 12V RGB

14.4W 60LED/m 24V RGB

19.2W LED/m 24V 4in1

24W 60LED/m 24V 5in1





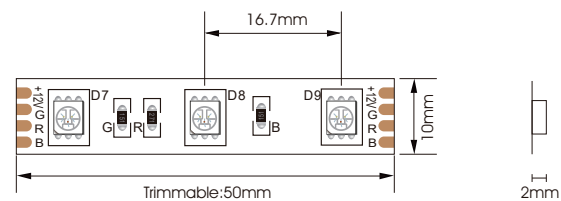
14.4W 60LED/m 12V RGB

Electrical Data

Light Beads	: 5050
Number Led/M	: 60pcs
Power W/m $\pm$ 10%	: 14.4W
Voltage	: 12V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

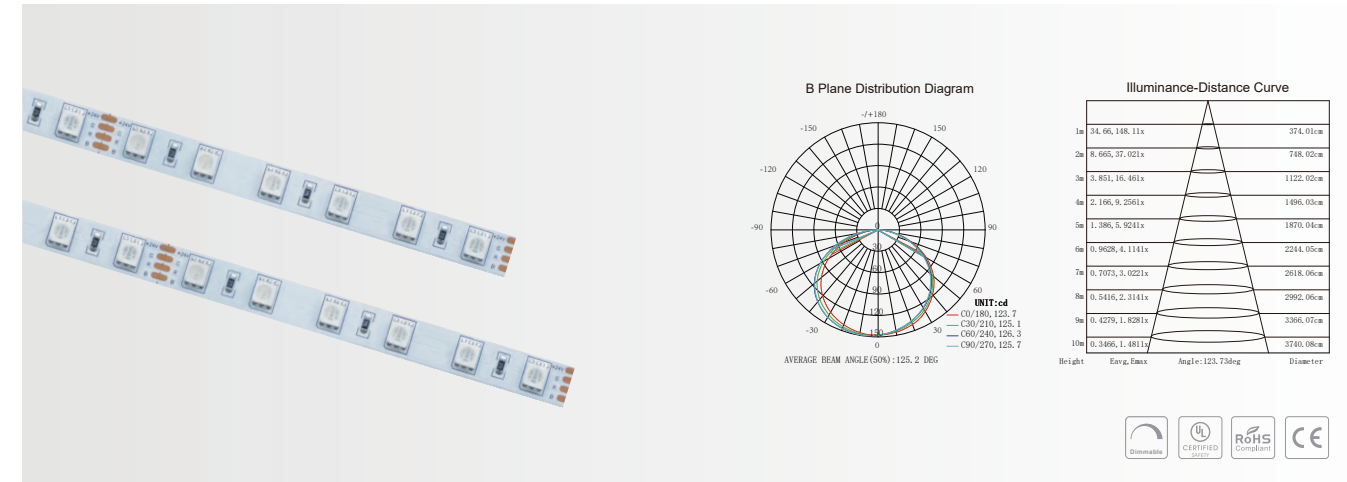
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF12060T03-0A60	14.4	12	R	620-630	140	/	/	20(54/66/67)
			G	515-525	280	/	/	20(54/66/67)
			B	460-470	66	/	/	20(54/66/67)
			RGB	/	480	/	/	20(54/66/67)



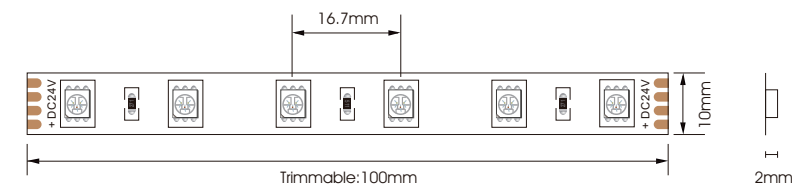
14.4W 60LED/m 24V RGB

Electrical Data

Light Beads	: 5050
Number Led/M	: 60pcs
Power W/m $\pm 10\%$	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

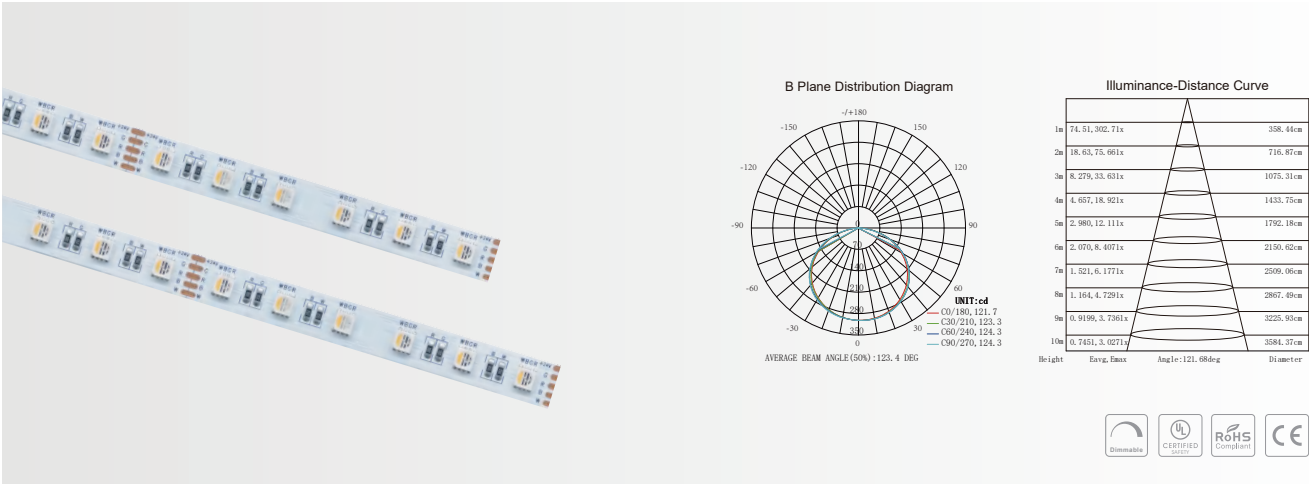
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2NF24060T03-0A60	14.4	24	R	620-630	130	/	/	20(54/66/67)
			G	515-525	300	/	/	20(54/66/67)
			B	460-470	66	/	/	20(54/66/67)
			RGB	/	500	/	/	20(54/66/67)



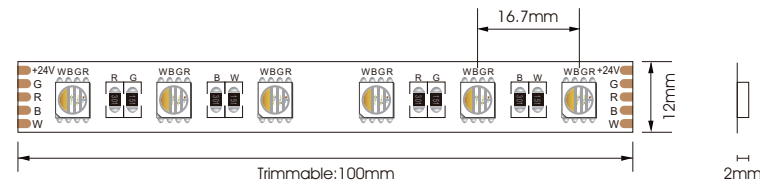
19.2W 60LED/m 24V 4in1

Electrical Data

Light Beads	: 5050
Number Led/M	: 60pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 12mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

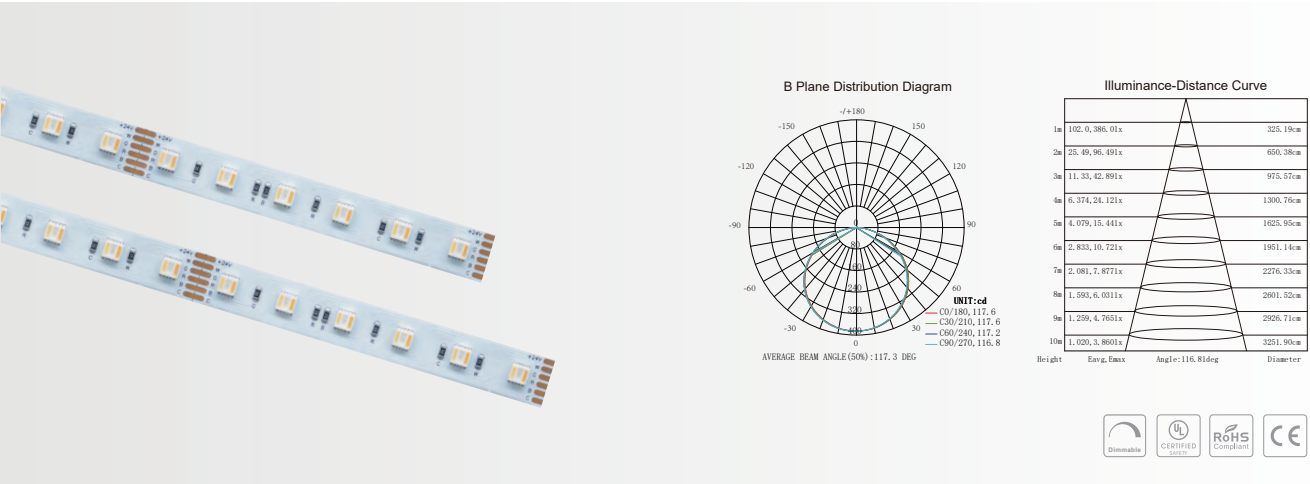
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT- IRNF24060T03-2A20	19.2	24	R	615-625	120	>90/>40	/	20(54/66/67)
			G	515-525	310	>90/>40	/	20(54/66/67)
			B	460-470	70	>90/>40	/	20(54/66/67)
			W (3000K)	/	260	>90/>40	/	20(54/66/67)
			RGBW	/	765	>90/>40	/	20(54/66/67)



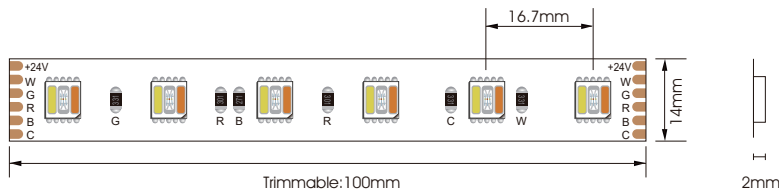
24W 60LED/m 24V 5in1

Electrical Data

Light Beads	: 5050
Number Led/M	: 60pcs
Power W/m±10%	: 24W
Voltage	: 24V
PCB Width	: 14mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 100mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-WWNF24060T03-4A28	24	24	R	615-625	130	/	/	20(54/66/67)
			G	515-525	300	/	/	20(54/66/67)
			B	460-470	66	/	/	20(54/66/67)
			W (2400K)	/	440	>90/>40	G	20(54/66/67)
			W (6500K)	/	380	>90/>40	G	20(54/66/67)
			RGB+W+WW	/	1300	>90/>40	/	20(54/66/67)

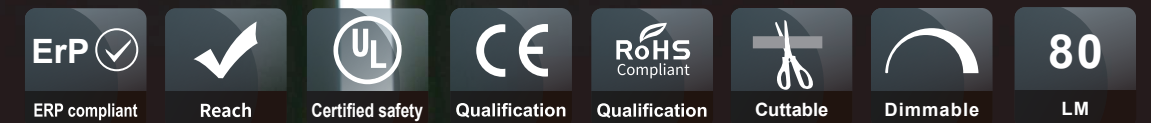


APPLICATION SCENARIOS

INFINITY SERIES

NEON LED STRIP

- 3x6mm Side View Neon Light **NEW**
- 4x10mm Side View RGB digital chasing Neon Light **NEW**
- 4x8mm Side View Neon Light
- 4x8mm T-shape Side View Neon Light
- 12V 4x8mm Mini Cut Neon Light
- 24V 4x8mm Mini Cut Neon Light
- 6x6mm Top View Neon Light **NEW**
- 6x12mm T-shape Side View Neon Light **NEW**
- 6.5x11mm Side View Neon Light
- 6.5x11mm Mini Cut Neon Ligh
- 6.5x11mm Side View White digital chasing Neon Light
- 6.5x11mm Side View RGB digital chasing Neon Light
- 10x6mm Top View Neon Light **NEW**
- 10x6mm Curve Top View Neon Light **NEW**
- 10x10mm Top View Neon Light (CSP)
- 10x10mm Top View Neon Light (2835)
- 10x10mm Curve Top View Neon Light
- 10x10mm Mini Cut Curve Top View Neon Light
- 10x10mm Square Top View Neon Light
- 10x10mm Mini Cut Square Top View Neon Light
- 10x10 Anti-glare Top View Black Neon Light **NEW**
- 10x10 Anti-glare Free Bend White Neon Light **NEW**
- 10x15mm Side View Neon Light **NEW**
- 12x8mm CSP RGB Neon Light **NEW**
- 12x12mm Free Bend Neon Light **NEW**
- 12x12mm Free Bend Mini Cut Neon Light **NEW**



LED Silicone Neon Strip – Design Overview

The NEON LED Strip is designed around the core principles of full-scenario adaptability and high-flexibility control. Leveraging the advantages of silicone materials and precision structural design, it combines waterproof performance, multidirectional bending, and free cutting. With a gradient size portfolio, it seamlessly adapts to lighting requirements ranging from micro spaces to large-scale applications, delivering an integrated indoor and outdoor lighting solution.

• Gradient Size Design for Full-Scenario Applications

Mini size: Ultra-compact 3×6 mm and 4×8 mm profiles, ideal for furniture gaps, display cabinets, and other confined spaces, enabling concealed lighting.

Standard size: A full range from 6 mm to 16 mm, providing uniform light output for general lighting applications such as ceilings and wall features in residential environments.

• Core Performance Design: Flexibility and Durability Combined

Multidirectional Bending: Supports free top bending and side bending, easily adapting to regular curves and complex shapes, creating smooth and continuous light lines without splicing.

Free-Cutting Capability: Minimum cutting length of 7.14 mm; cutting does not affect the remaining strip. Sections can be extended by connection, meeting flexible length requirements.

Dustproof and Waterproof Design: Resistant to rain, moisture, and dust, with stable operation across a temperature range of -25°C to +55°C.

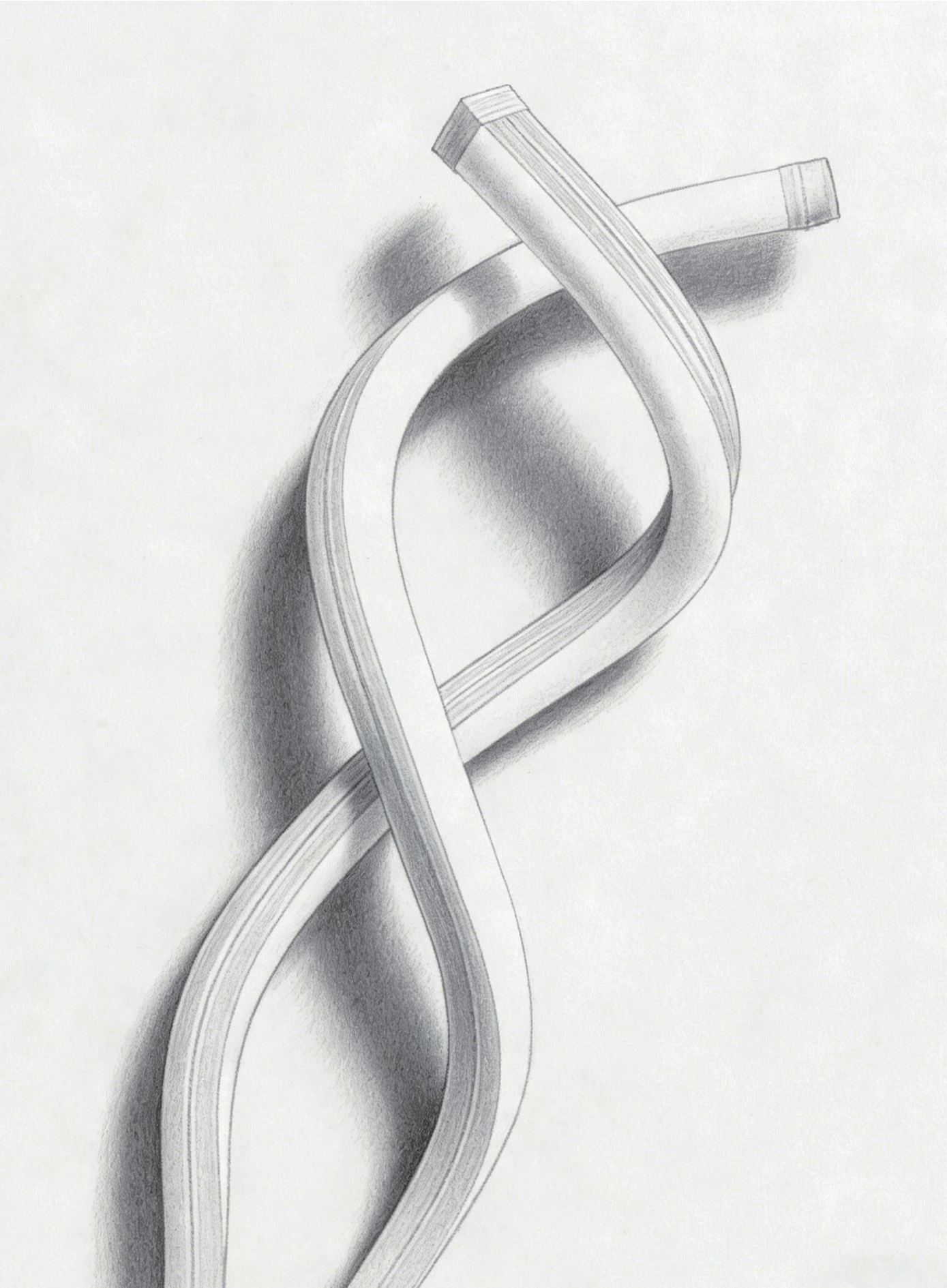
• Full-Scenario Applications: Functionality and Aesthetics

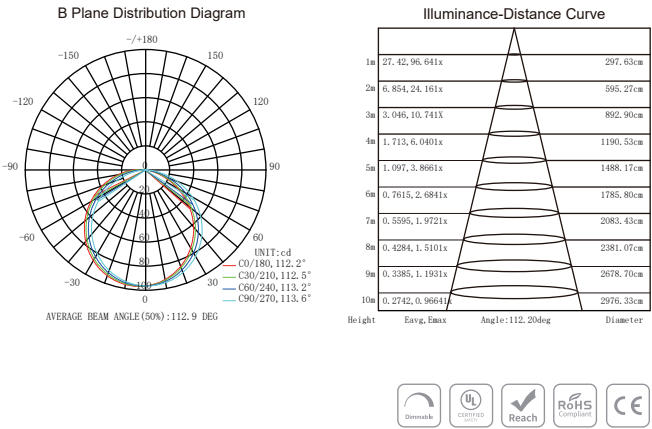
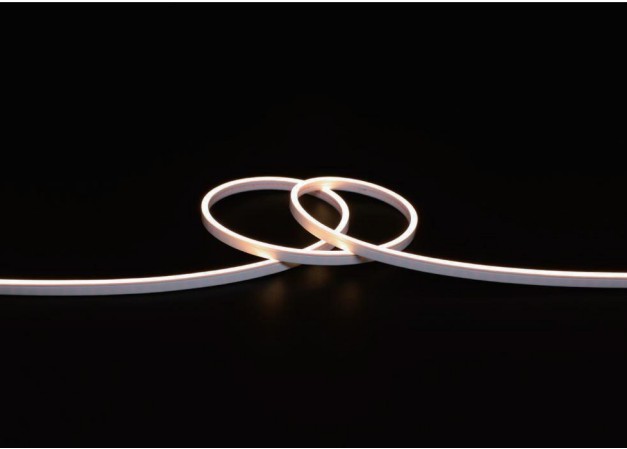
With its core performance and dimensional advantages, the NEON LED Strip is widely applied across three major scenarios, balancing functionality and decorative appeal:

Residential Applications: suitable for cabinets, ceilings, and similar spaces. Can be used as accent or ambient lighting, while mini sizes enable concealed installation to enhance spatial aesthetics.

Commercial Applications: Ideal for retail displays and hospitality spaces. RGB versions offer color adjustment, while larger sizes are suitable for signagebacklighting, creating immersive visual environments.

Outdoor Applications: Designed for architectural façade lighting and landscape projects. Waterproof and weather-resistant properties ensure reliable performance in outdoor conditions, enhancing nighttime visual appeal.





3x6mm Side View Neon Light

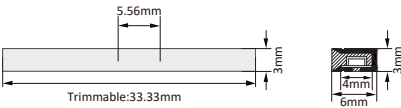
Electrical Data

Light Beads	: 2216
Number Led/M	: 180pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 4mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 33.33mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101086	Direct cable end cap	
103305101087	Sealing end cap	

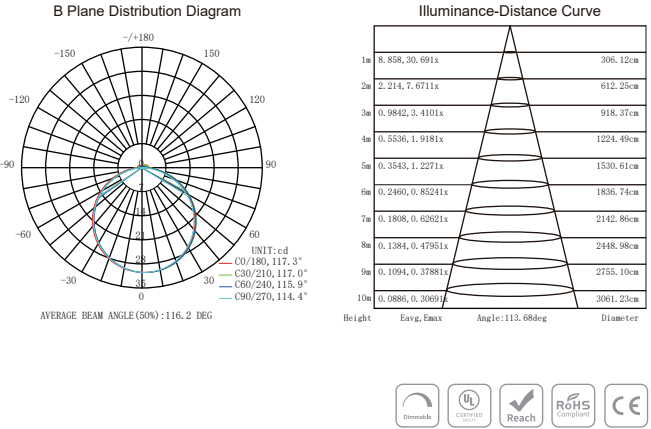
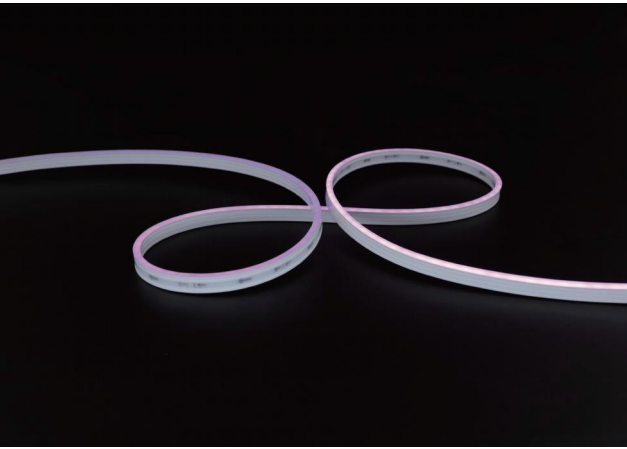
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24180T16-BA29	9.6	2700	23	221	>90/>40	/	/	66
CLT-INQF24180T16-BA29	9.6	3000	26	250	>90/>40	/	/	66
CLT-DNQF24180T16-BA29	9.6	4000	26	250	>90/>40	/	/	66
CLT-FNQF24180T16-BA29	9.6	5000	26	250	>90/>40	/	/	66



4x10mm Side View RGB digital chasing Neon Light

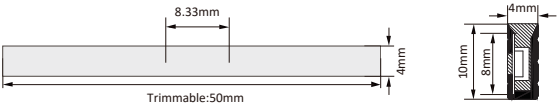
Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102008	Direct cable end cap	
103305101069	Direct cable end cap	
103305102013	Sealing end cap	
103305101068	Sealing end cap	
103405102001	Silicon clip	
101101101077	Aluminum clip	
101101101076	Aluminum channel	
101104101001	Flexible profile	

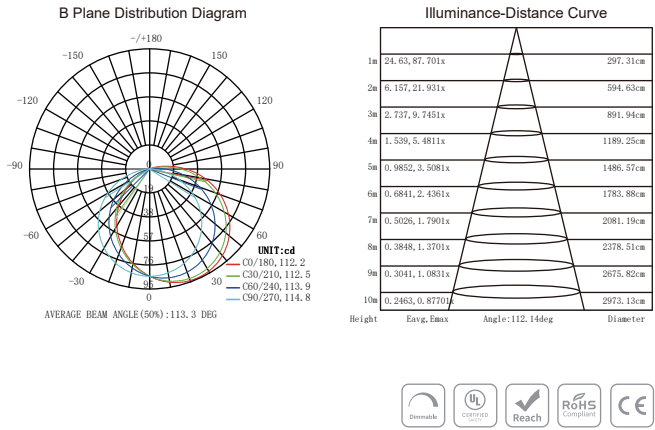
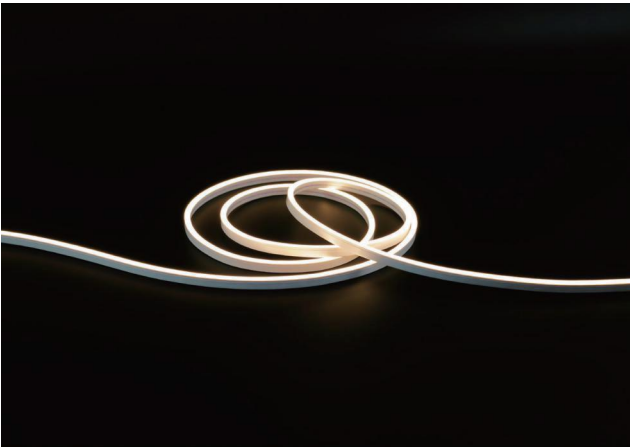
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2QF24120T09-8A39	5.1	24	R	620-630	20	/	/	66
	5.5	24	G	515-525	72	/	/	66
	5.1	24	B	460-470	14	/	/	66
	14.4	24	RGB	/	94	/	/	66



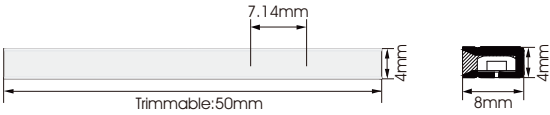
4x8mm Side View Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

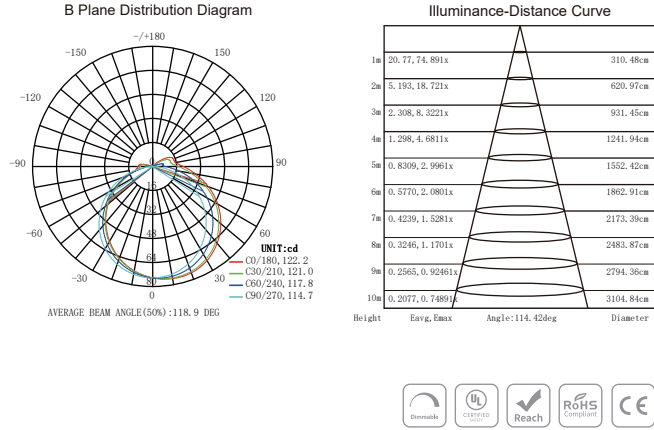
Standards / Normative Requirements

Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
REACH	: Yes
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-5A29	9.6	2700	26	249	>90/>40	/	/	66
CLT-INQF24140T09-5A29	9.6	3000	27	259	>90/>40	/	/	66
CLT-DNQF24140T09-5A29	9.6	4000	25	240	>90/>40	/	/	66
CLT-FNQF24140T09-5A29	9.6	5000	25	240	>90/>40	/	/	66



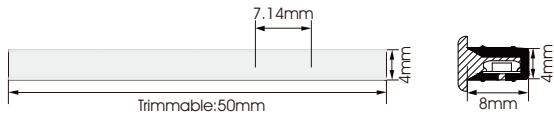
4x8mm T-shape Side View Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

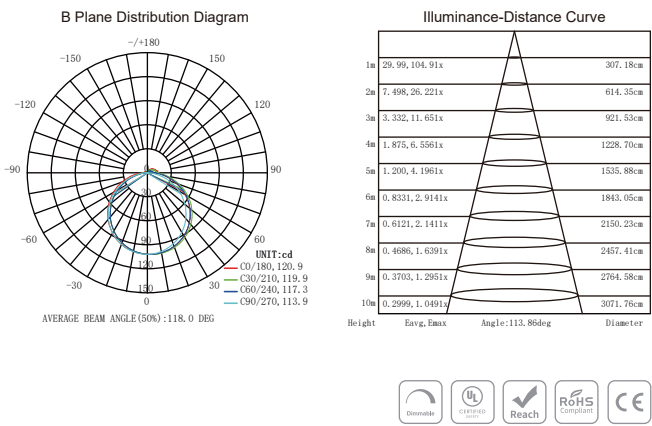
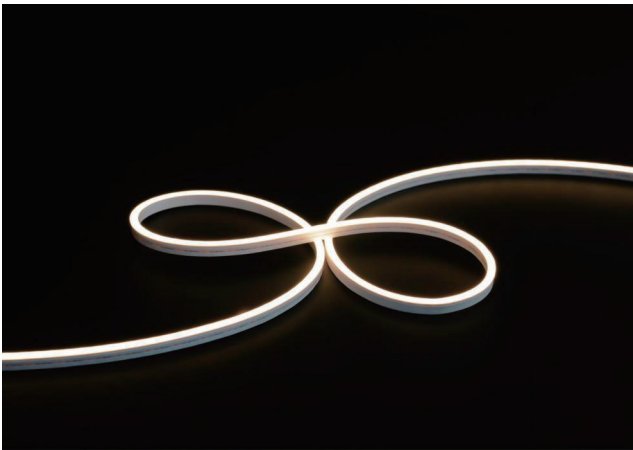
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-5A29	9.6	2700	32	307	>90/>40	/	/	66
CLT-INQF24140T09-5A29	9.6	3000	33	316	>90/>40	/	/	66
CLT-DNQF24140T09-5A29	9.6	4000	30	288	>90/>40	/	/	66
CLT-FNQF24140T09-5A29	9.6	5000	30	288	>90/>40	/	/	66



12V 4x8mm Mini Cut Neon Light

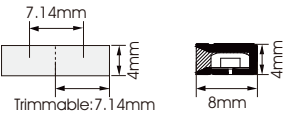
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 12V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 2.5m
Cut Size	: 7.14mm

Standards / Normative Requirements

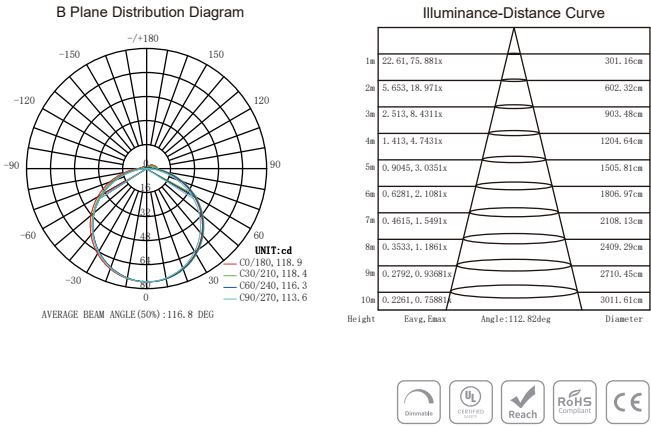
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101005	Direct cable end cap	
103305101004	Sealing end cap	
103305101017	Mini sealing end cap	
103305101018	Mini cable end cap	
101107101002	Stainless steel clip	
101101101093	Aluminum clip	
102206105057	PVC channel	
101101101081	Aluminum channel	
101104101003	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF12140T09-5A29	9.6	2700	30	288	>90/>40	/	/	66
CLT-INQF12140T09-5A29	9.6	3000	30	288	>90/>40	/	/	66
CLT-DNQF12140T09-5A29	9.6	4000	32	307	>90/>40	/	/	66
CLT-FNQF12140T09-5A29	9.6	5000	32	307	>90/>40	/	/	66



24V 4x8mm Mini Cut Neon Light

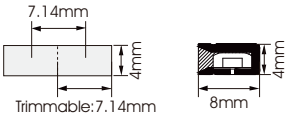
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 7.14mm

Standards / Normative Requirements

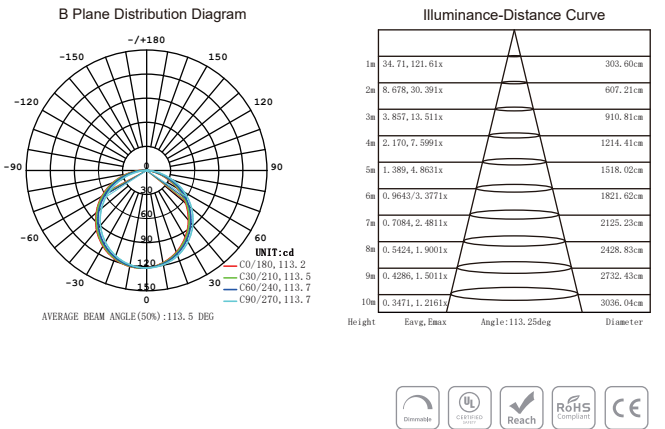
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101005	Direct cable end cap	
103305101004	Sealing end cap	
103305101017	Mini sealing end cap	
103305101018	Mini cable end cap	
101107101002	Stainless steel clip	
101101101093	Aluminum clip	
102206105057	PVC channel	
101101101081	Aluminum channel	
101104101003	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-5A19	9.6	2700	24	230	>90/>40	/	/	66
CLT-INQF24140T09-5A19	9.6	3000	24	230	>90/>40	/	/	66
CLT-DNQF24140T09-5A19	9.6	4000	25	240	>90/>40	/	/	66
CLT-FNQF24140T09-5A19	9.6	5000	24	230	>90/>40	/	/	66



6x6mm Top View Neon Light

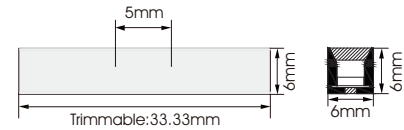
Electrical Data

Light Beads	: 2835
Number Led/M	: 180pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 33.33mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101077	Direct cable end cap	
103305101078	Sealing end cap	

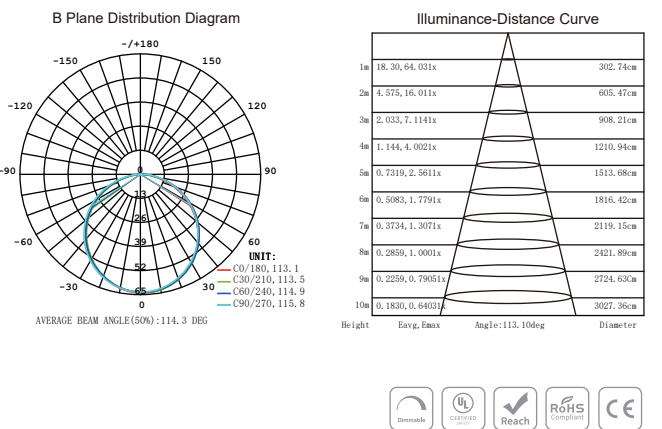
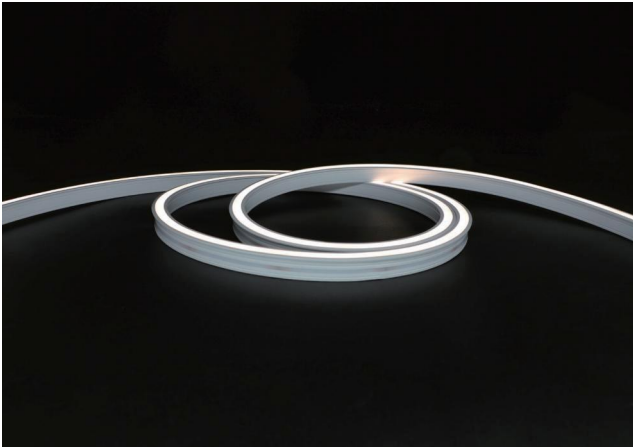
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24180T09-5A29	9.6	2700	37	355	>90/>40	/	/	66
CLT-INQF24180T09-5A29	9.6	3000	37	355	>90/>40	/	/	66
CLT-DNQF24180T09-5A29	9.6	4000	42	403	>90/>40	/	/	66
CLT-WNQF24180T09-5A29	9.6	6500	42	403	>90/>40	/	/	66



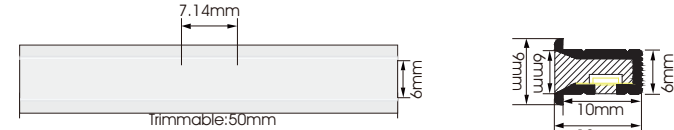
6x12mm T-shape Side View Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

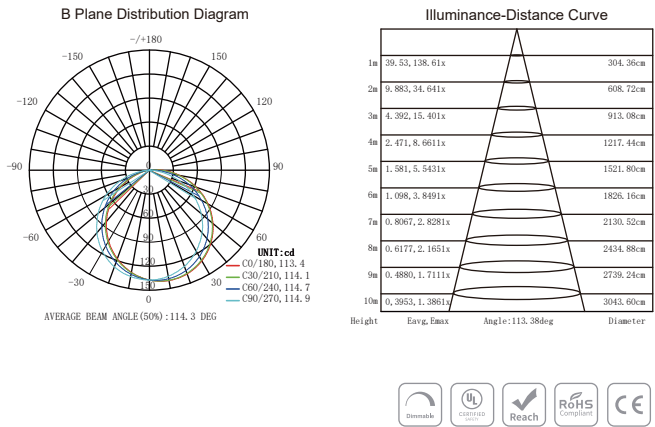
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-8A19	9.6	2700	19	182	>90/>40	/	/	66
CLT-INQF24140T09-8A19	9.6	3000	19	182	>90/>40	/	/	66
CLT-DNQF24140T09-8A19	9.6	4000	21	201	>90/>40	/	/	66
CLT-FNQF24140T09-8A19	9.6	5000	21	201	>90/>40	/	/	66



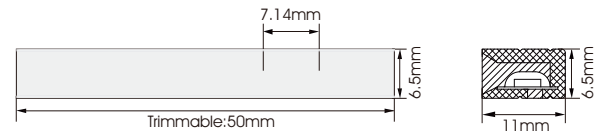
6.5x11mm side View Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

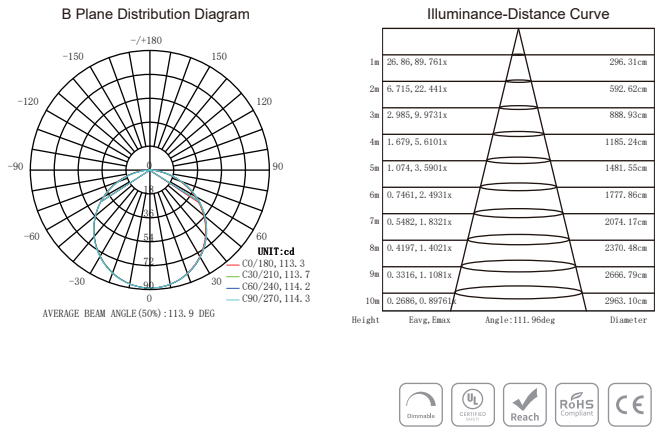
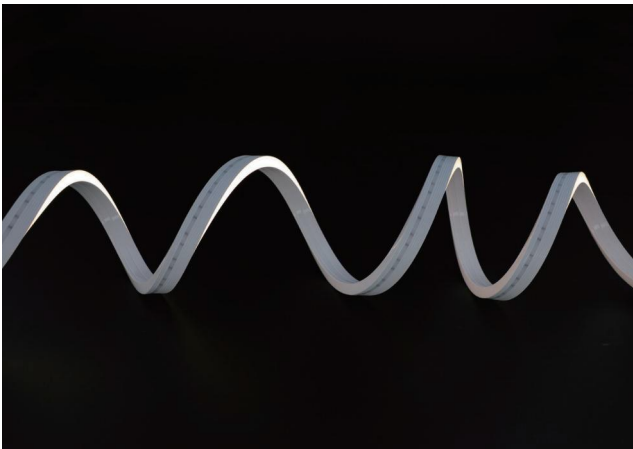
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-8A39	14.4	2700	31	446	>90/>40	/	/	66
CLT-INQF24140T09-8A39	14.4	3000	32	460	>90/>40	/	/	66
CLT-DNQF24140T09-8A39	14.4	4000	30	432	>90/>40	/	/	66
CLT-FNQF24140T09-8A39	14.4	5000	30	432	>90/>40	/	/	66



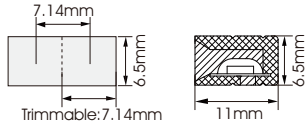
6.5x11mm Mini Cut Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 7.14mm

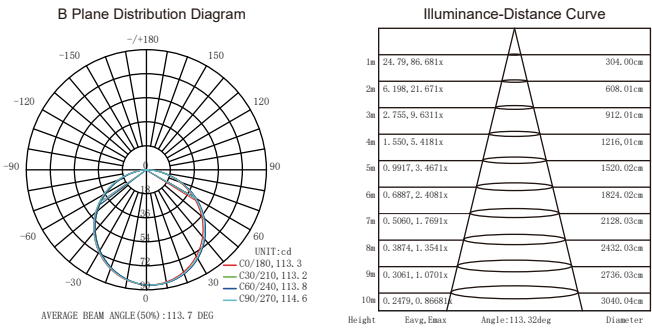
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-8A19	9.6	2700	24	230	>90/>40	/	/	66
CLT-INQF24140T09-8A19	9.6	3000	24	230	>90/>40	/	/	66
CLT-DNQF24140T09-8A19	9.6	4000	26	250	>90/>40	/	/	66
CLT-FNQF24140T09-8A19	9.6	5000	26	250	>90/>40	/	/	66



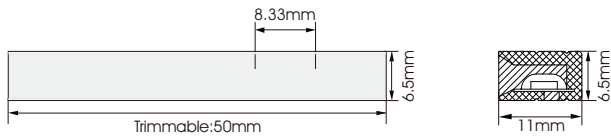
6.5x11mm Side View White digital chasing Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

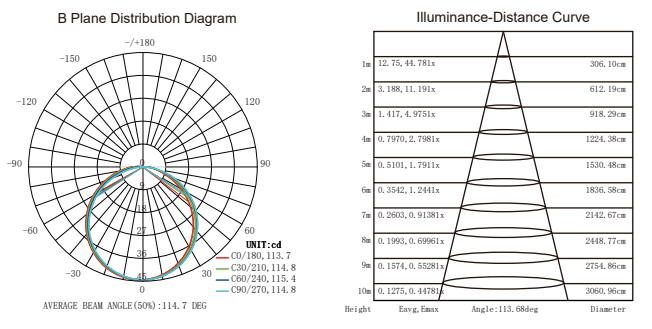
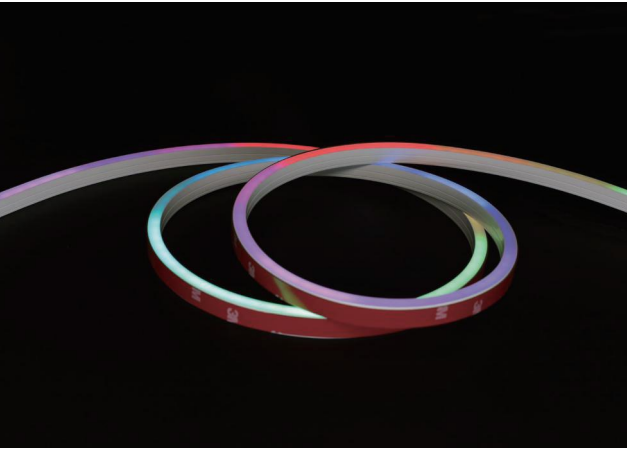
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-DNQF24120T09-8A28	9.6	4000	28	275	>80/>40	/	/	66
CLT-W2QF24120T09-8A30	14.4	3000	30	270	>80/>40	/	/	66
CLT-W2QF24120T09-8A30	14.4	3000	30	270	>80/>40	/	/	66
CLT-W2QF24120T09-8A30	14.4	3000	30	270	>80/>40	/	/	66
CLT-W2QF24120T09-8A30	14.4	3000	30	270	>80/>40	/	/	66



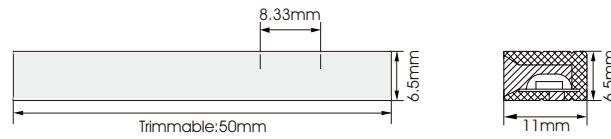
6.5x11mm Side View RGB digital chasing Neon Light

Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

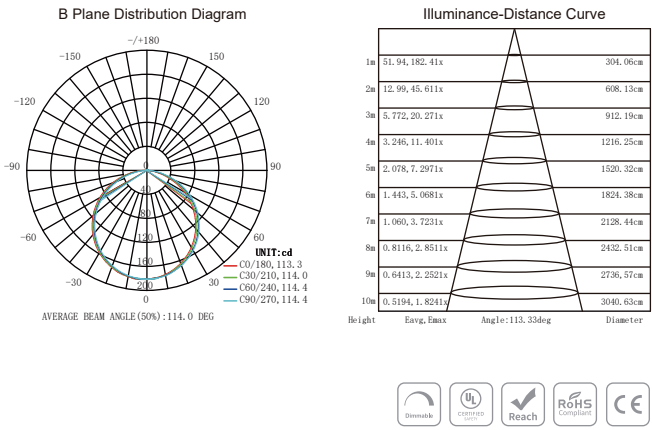
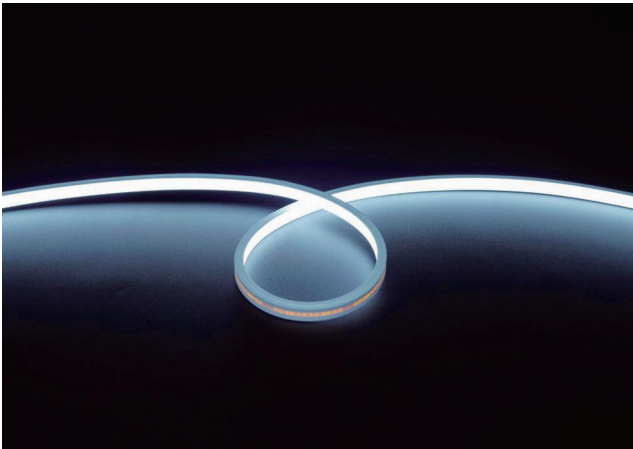
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2QF24120T09-8A30	14.4	24	R	620-630	35	/	/	66
CLT-W2QF24120T09-8A30	14.4	24	G	515-525	100	/	/	66
CLT-W2QF24120T09-8A30	14.4	24	B	460-470	20	/	/	66
CLT-W2QF24120T09-8A30	14.4	24	RGB	/	145	/	/	66
CLT-W2QF24120T09-8A30	14.4	24	RGB	/	145	/	/	66
CLT-W2QF24120T09-8A30	14.4	24	RGB	/	145	/	/	66



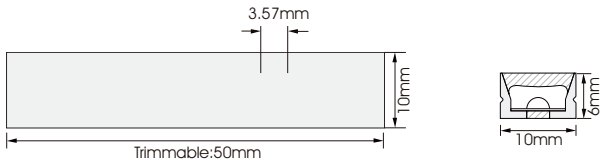
10x6mm Top View Neon Light

Electrical Data

Light Beads	: CSP
Number Led/M	: 280pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

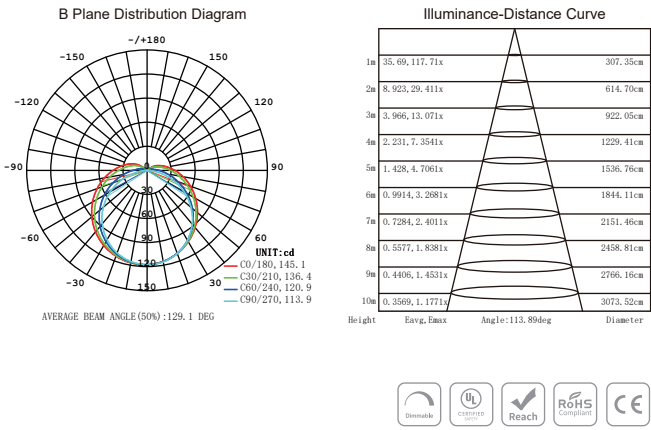
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24280T00-8A19	9.6	2700	62	595	>90/>40	/	/	66
CLT-INQF24280T00-8A19	9.6	3000	65	624	>90/>40	/	/	66
CLT-DNQF24280T00-8A19	9.6	4000	63	604	>90/>40	/	/	66
CLT-WNQF24280T00-8A19	9.6	6500	62	595	>90/>40	/	/	66



10x6mm Curve Top View Neon Light

Electrical Data

Light Beads	: 1612
Number Led/M	: 364pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >80
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

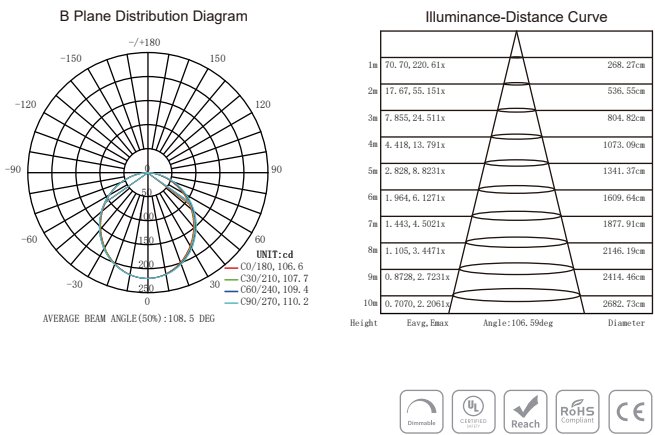
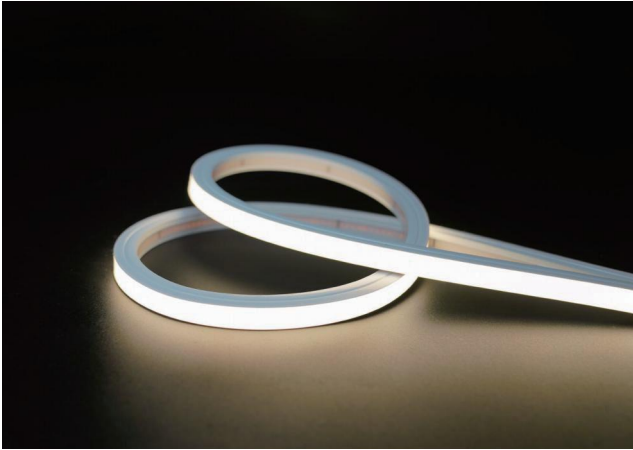
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24364T12-8A18	9.6	2700	90	864	>80/>40	/	/	66
CLT-INQF24364T12-8A18	9.6	3000	90	864	>80/>40	/	/	66
CLT-DNQF24364T12-8A18	9.6	4000	97	931	>80/>40	/	/	66
CLT-WNQF24364T12-8A18	9.6	6500	97	931	>80/>40	/	/	66



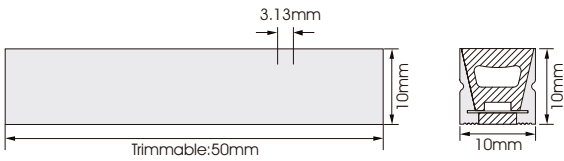
10x10mm Top View Neon Light (CSP)

Electrical Data

Light Beads	: CSP
Number Led/M	: 320pcs
Power W/m ±10%	: 10W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

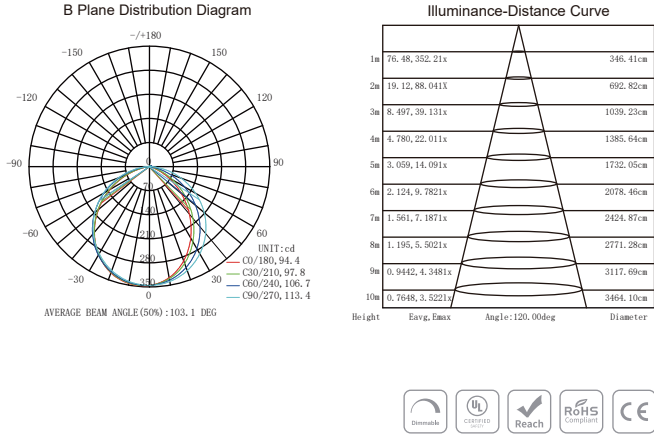
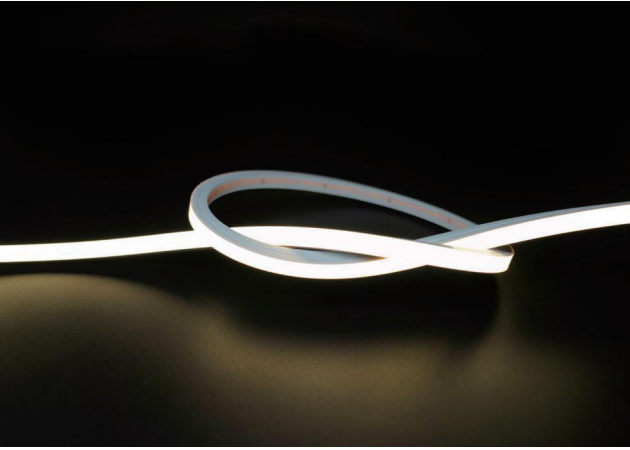
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24320T00-8A19	10	2700	63	630	>90/>40	/	/	67
CLT-INQF24320T00-8A19	10	3000	66	660	>90/>40	/	/	67
CLT-DNQF24320T00-8A19	10	4000	68	680	>90/>40	/	/	67
CLT-WNQF24320T00-8A19	10	6500	66	660	>90/>40	/	/	67



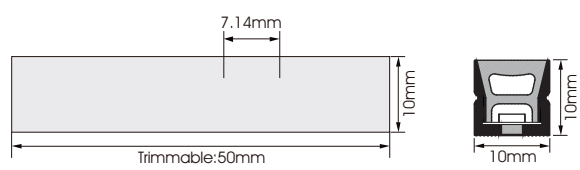
10x10mm Top View Neon Light (2835)

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m ±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: ≥90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

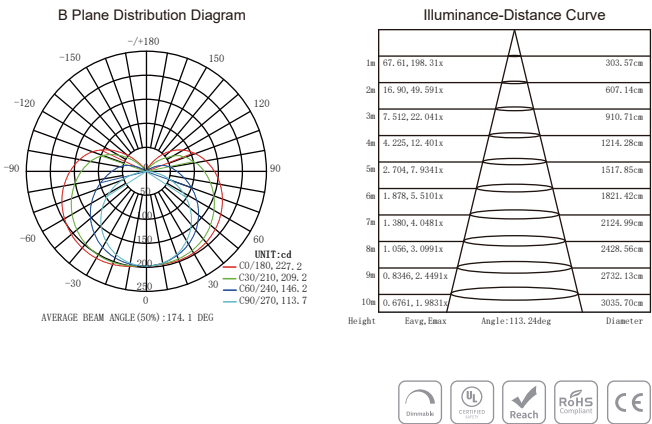
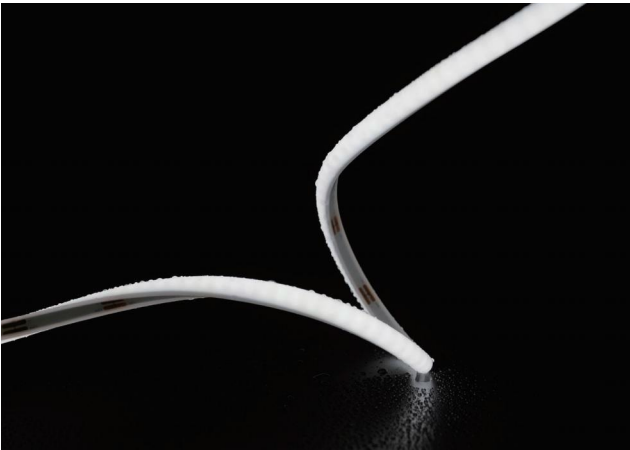
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-8A39	14.4	2700	51	734	>90/>40	/	/	66
CLT-INQF24140T09-8A39	14.4	3000	53	763	>90/>40	/	/	66
CLT-DNQF24140T09-8A39	14.4	4000	53	763	>90/>40	/	/	66
CLT-WNQF24140T09-8A39	14.4	6500	52	749	>90/>40	/	/	66



10x10mm Curve Top View Neon Light

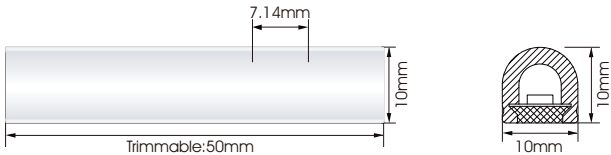
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

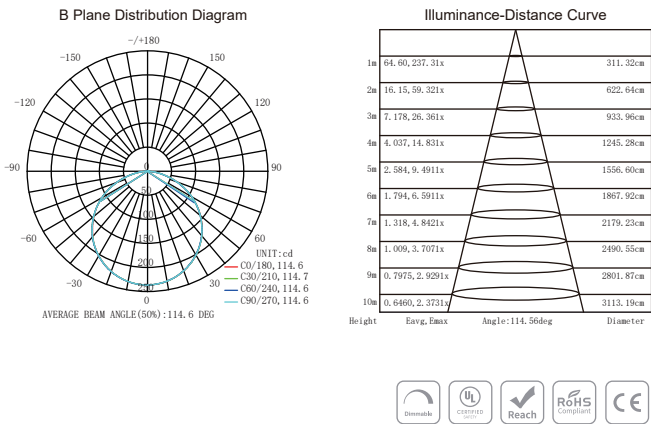
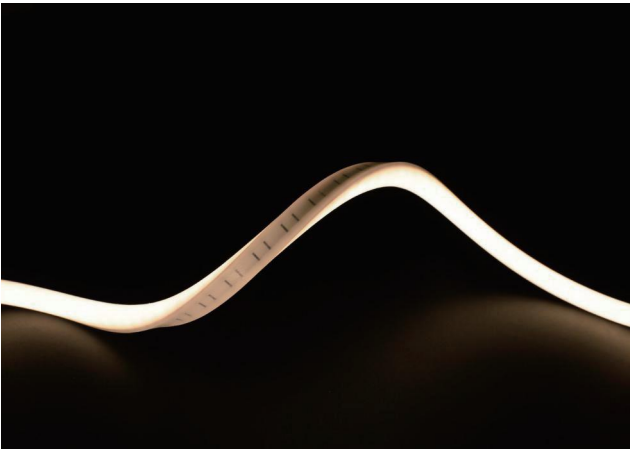
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101002	Direct cable end cap	
103305102009	Sealing end cap	
103305101003	Bottom cable end cap	
101107101001	Stainless steel clip	
101101101085	Aluminum channel	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNHF24140T09-8A39	14.4	2700	88	1267	>90/>40	/	/	66
CLT-INHF24140T09-8A39	14.4	3000	92	1324	>90/>40	/	/	66
CLT-DNHF24140T09-8A39	14.4	4000	96	1382	>90/>40	/	/	66
CLT-FNHF24140T09-8A39	14.4	5000	96	1382	>90/>40	/	/	66



10x10mm Mini Cut Curve Top View Neon Light

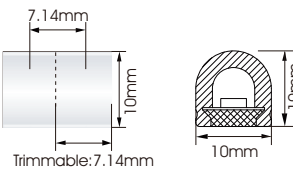
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 7.14mm

Standards / Normative Requirements

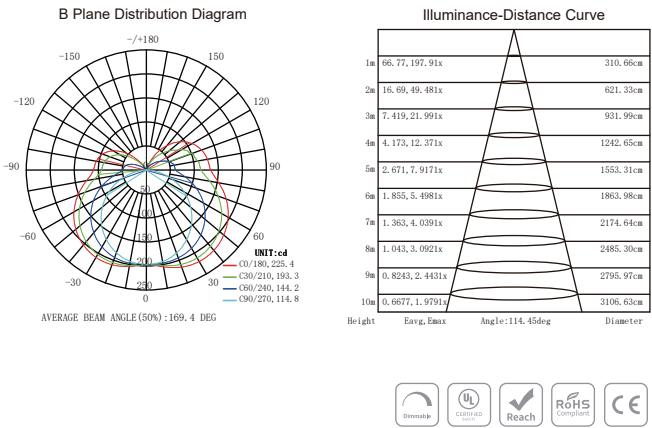
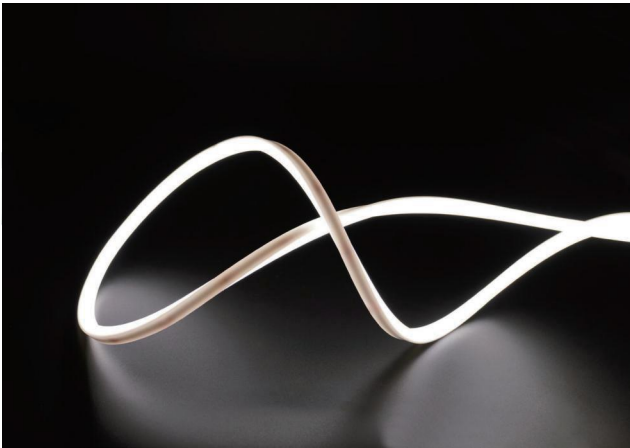
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101002	Direct cable end cap	
103305102009	Sealing end cap	
103305101003	Bottom cable end cap	
101107101001	Stainless steel clip	
101101101085	Aluminum channel	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNHF24140T09-8A19	9.6	2700	73	700	>90/>40	/	/	66
CLT-INHF24140T09-8A19	9.6	3000	73	700	>90/>40	/	/	66
CLT-DNHF24140T09-8A19	9.6	4000	78	750	>90/>40	/	/	66
CLT-FNHF24140T09-8A19	9.6	5000	78	750	>90/>40	/	/	66



10x10mm Square Top View Neon Light

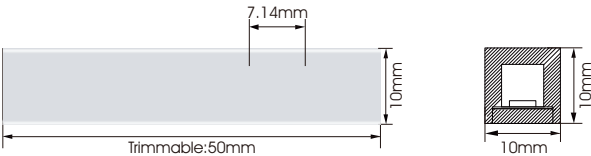
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

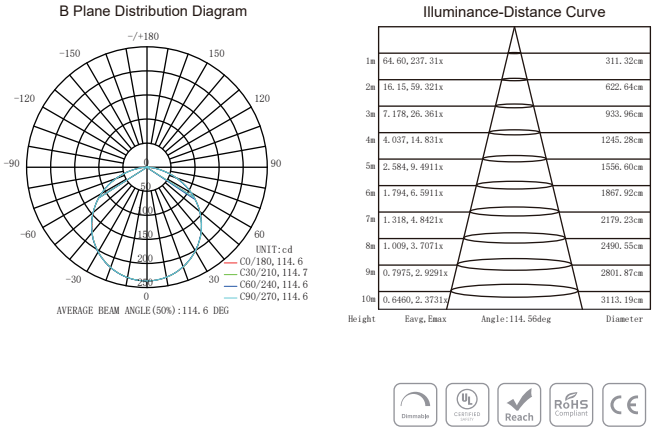
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101013	Direct cable end cap	
103305101014	Sealing end cap	
103305101070	Bottom cable end cap	
101107101001	Stainless steel clipp	
101101101090	Aluminum clip	
101101101079	Aluminum channel	
101104101002	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-8A39	14.4	2700	88	1267	>90/>40	/	/	66
CLT-INQF24140T09-8A39	14.4	3000	92	1324	>90/>40	/	/	66
CLT-DNQF24140T09-8A39	14.4	4000	96	1382	>90/>40	/	/	66
CLT-FNQF24140T09-8A39	14.4	5000	96	1382	>90/>40	/	/	66



10x10mm Mini Cut Square Top View Neon Light

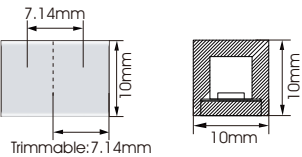
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 7.14mm

Standards / Normative Requirements

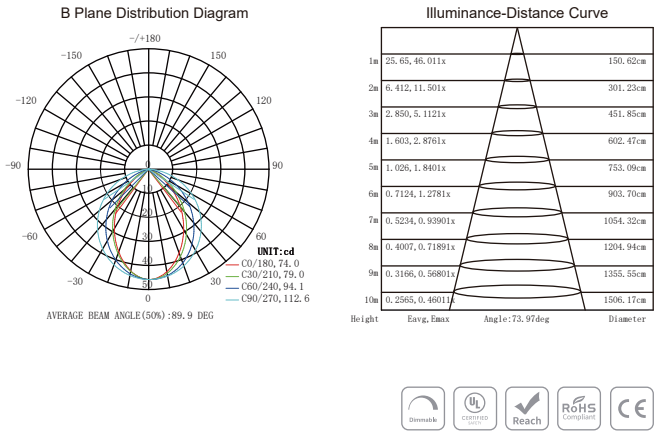
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101013	Direct cable end cap	
103305101014	Sealing end cap	
103305101070	Bottom cable end cap	
101107101001	Stainless steel clipp	
101101101090	Aluminum clip	
101101101079	Aluminum channel	
101104101002	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNHF24140T09-8A19	9.6	2700	73	700	>90/>40	/	/	66
CLT-INHF24140T09-8A19	9.6	3000	73	700	>90/>40	/	/	66
CLT-DNHF24140T09-8A19	9.6	4000	78	750	>90/>40	/	/	66
CLT-FNHF24140T09-8A19	9.6	5000	78	750	>90/>40	/	/	66



10x10 Anti-glare Top View Black Neon Light

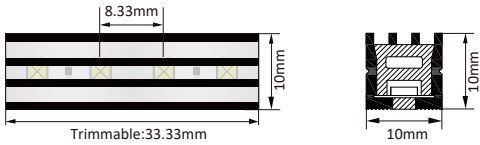
Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 33.33mm

Standards / Normative Requirements

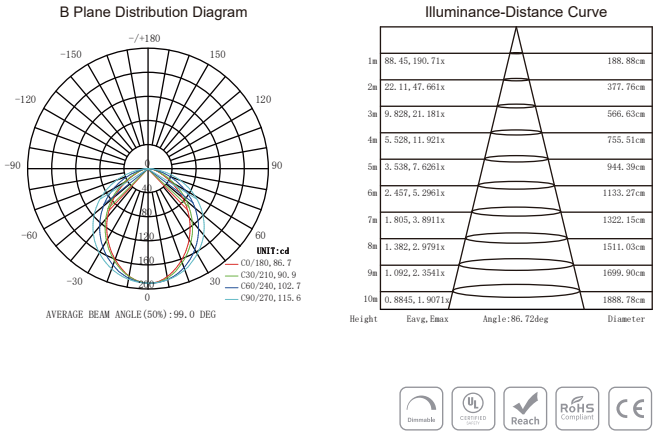
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101013	Direct cable end cap	
103305101014	Sealing end cap	
101107101001	Stainless steel clip	
101101101090	Aluminum clip	
101101101079	Aluminum channel	
101104101002	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24120T09-8A19	9.6	2700	5.8	56	>90/>40	/	/	66
CLT-INQF24120T09-8A19	9.6	3000	6	58	>90/>40	/	/	66
CLT-DNQF24120T09-8A19	9.6	4000	6.2	60	>90/>40	/	/	66
CLT-FNQF24120T09-8A19	9.6	5000	6	58	>90/>40	/	/	66



10x10 Anti-glare Top View White Neon Light

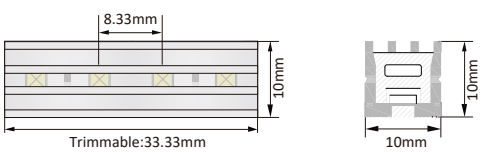
Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 33.33mm

Standards / Normative Requirements

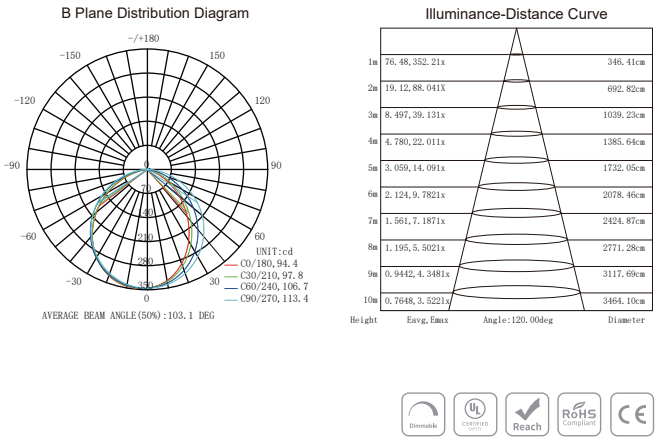
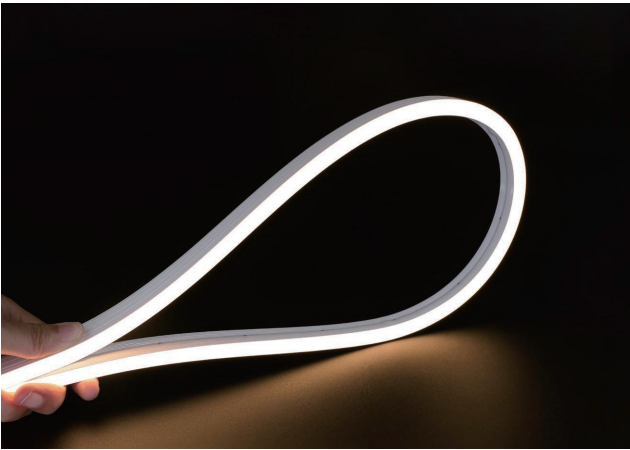
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101013	Direct cable end cap	
103305101014	Sealing end cap	
103305101070	Bottom cable end cap	
101107101001	Stainless steel clip	
101101101090	Aluminum clip	
101101101079	Aluminum channel	
101104101002	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24120T09-8A19	9.6	2700	39	374	>90/>40	/	/	66
CLT-INQF24120T09-8A19	9.6	3000	40	384	>90/>40	/	/	66
CLT-DNQF24120T09-8A19	9.6	4000	41	394	>90/>40	/	/	66
CLT-FNQF24120T09-8A19	9.6	5000	40	384	>90/>40	/	/	66



10x15mm Side View Neon Light

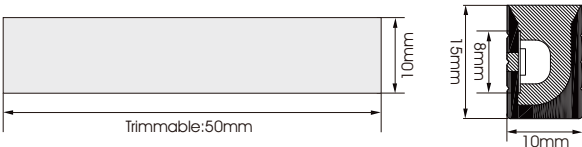
Electrical Data

Light Beads	: 2835
Number Led/M	: 160pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

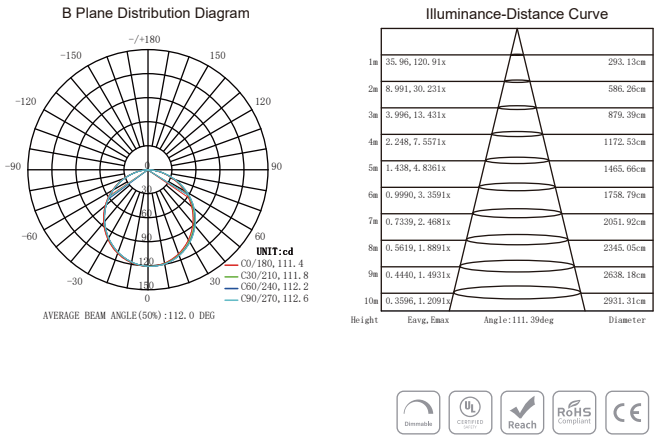
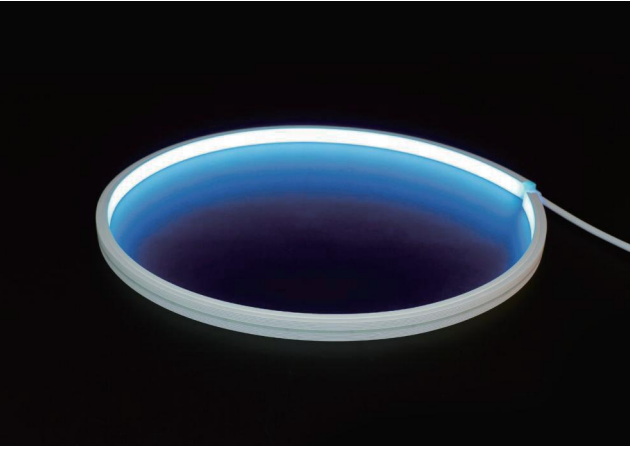
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101076	Direct cable end cap	
103305101075	Sealing end cap	
103305101081	Bottom cable end cap	
103305101082	Left side cable end cap	
103305101083	Right side cable end cap	
101107101001	Stainless steel clip	
101101101095	Aluminum clip	
101101101084	Aluminum channel	
101104101005	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24160T09-8A39	14.4	2700	60	864	>90/>45	/	/	66
CLT-INQF24160T09-8A39	14.4	3000	62	892	>90/>45	/	/	66
CLT-DNQF24160T09-8A39	14.4	4000	62	892	>90/>45	/	/	66
CLT-WNQF24160T09-8A39	14.4	6500	60	864	>90/>45	/	/	66



12x8mm CSP RGB Neon Light

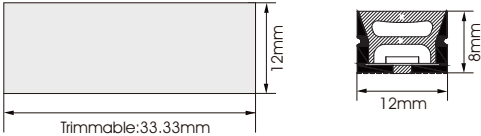
Electrical Data

Light Beads	: CSP
Number Led/M	: 540pcs
Power W/m±10%	: 15W
Voltage	: 24V
PCB Width	: 10mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 33.33mm

Standards / Normative Requirements

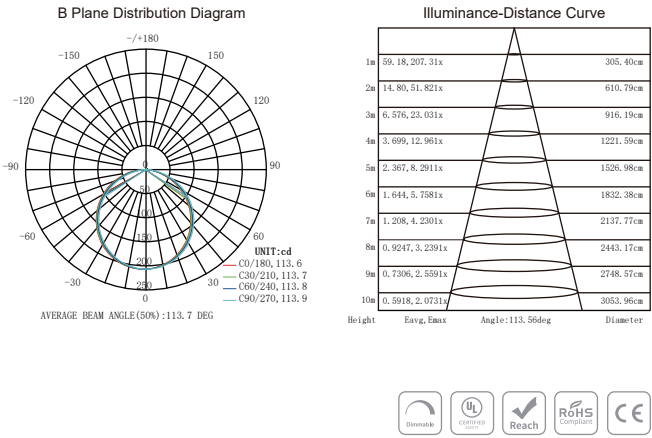
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101072	Direct cable end cap (PVC)	
103305101073	Direct cable end cap (Silicone)	
103305101071	Sealing end cap	
101107101019	Stainless steel clip	
101101101096	Aluminum clip	
101101101078	Aluminum channel	



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/M	CRI/R9	Energy efficiency class	IP (Optional)
CLT-W2QF24540T00-0A20	6	24	R	620-630	100	/	/	66
	4.5	24	G	520-530	220	/	/	66
	4.5	24	B	455-465	45	/	/	66
	15	24	RGB	/	362	/	/	66



12x12mm Free Bend Neon Light

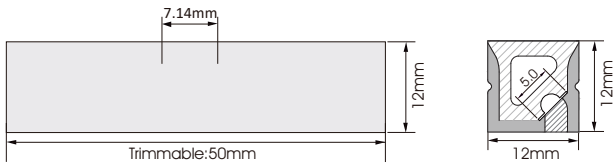
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Standards / Normative Requirements

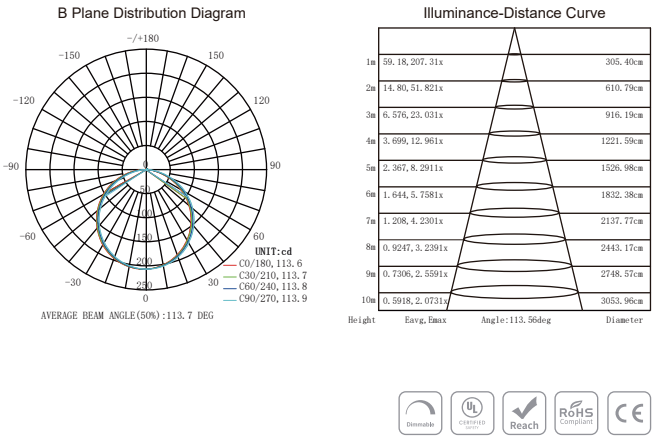
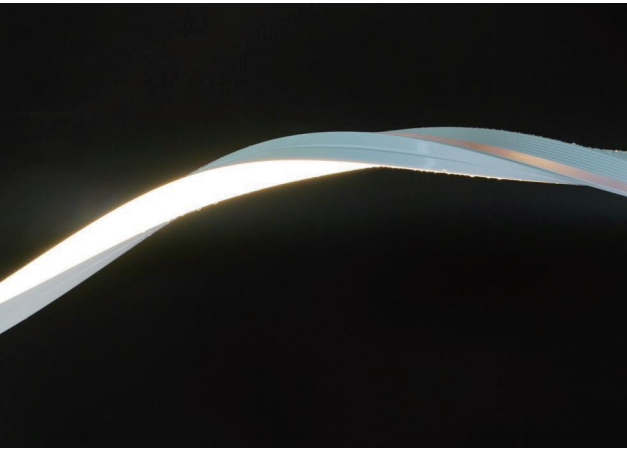
Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101067	Direct cable end cap	
103305101065	Sealing end cap	
103305101066	Bottom cable end cap	
101107101019	Stainless steel clip	
101101101089	Aluminum clip	
101101101087	Aluminum channel	
101104101006	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-5A29	9.6	2700	51	490	>90/>40	/	/	66
CLT-INQF24140T09-5A29	9.6	3000	56	538	>90/>40	/	/	66
CLT-DNQF24140T09-5A29	9.6	4000	60	576	>90/>40	/	/	66
CLT-WNQF24140T09-5A29	9.6	6500	66	634	>90/>40	/	/	66



12x12mm Free Bend Mini Cut Neon Light

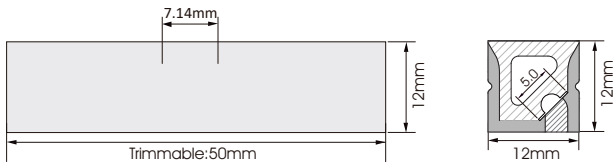
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 9.6W
Voltage	: 24V
PCB Width	: 5mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 7.14mm

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101067	Direct cable end cap	
103305101065	Sealing end cap	
103305101066	Bottom cable end cap	
101107101019	Stainless steel clip	
101101101089	Aluminum clip	
101101101087	Aluminum channel	
101104101006	Flexible profile	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-5A29	9.6	2700	51	490	>90/>40	/	/	66
CLT-INQF24140T09-5A29	9.6	3000	56	538	>90/>40	/	/	66
CLT-DNQF24140T09-5A29	9.6	4000	60	576	>90/>40	/	/	66
CLT-WNQF24140T09-5A29	9.6	6500	60	576	>90/>40	/	/	66



APPLICATION SCENARIOS

INFINITY SERIES

16X16 NEON SERIES LED STRIP

- 16x16mm Side View Neon Light (8mm)
- 16x16mm Side View Neon Light (10mm)
- 16x16mm Top View Neon Light (10mm)
- 16x16mm Top View Neon Light (12mm)
- 16x16mm Side View RGB digital chasing Neon Light
- 16x16mm RGB+W Top View White Neon Light
- 16x16mm RGB+W Top View Black Neon Light



ErP

ERP compliant

✓

Reach

UL

Certified safety

CE

Qualification

RoHS

Compliant

Qualification

✂

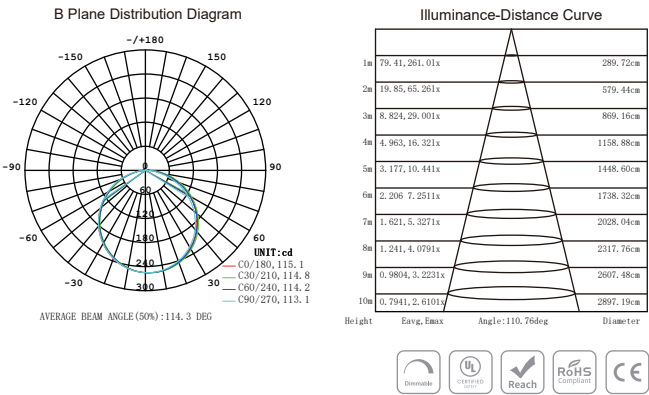
Cuttable

⤿

Dimmable

80

LM



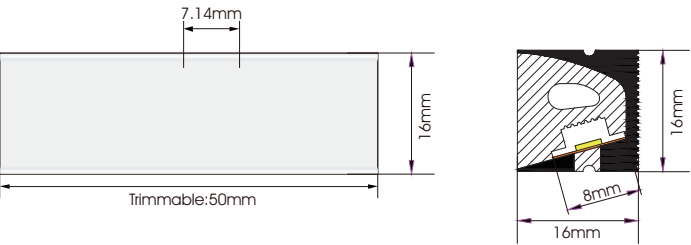
16x16mm Side View Neon Light (8mm)

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

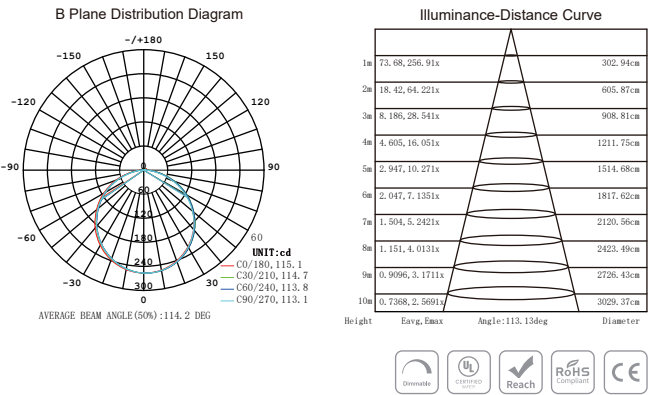
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNTF24140T09-8A39	14.4	2700	46	663	>90/>40	/	/	66
CLT-INTF24140T09-8A39	14.4	3000	47	677	>90/>40	/	/	66
CLT-DNTF24140T09-8A39	14.4	4000	48	690	>90/>40	/	/	66
CLT-WNTF24140T09-8A39	14.4	6500	48	690	>90/>40	/	/	66



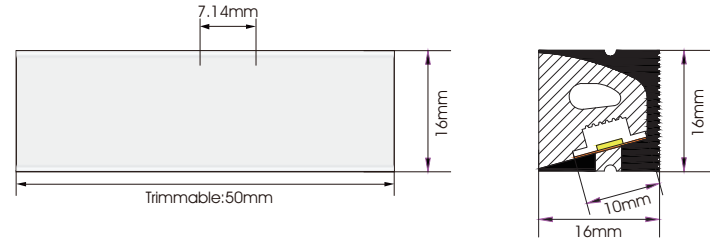
16x16mm Side View Neon Light (10mm)

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

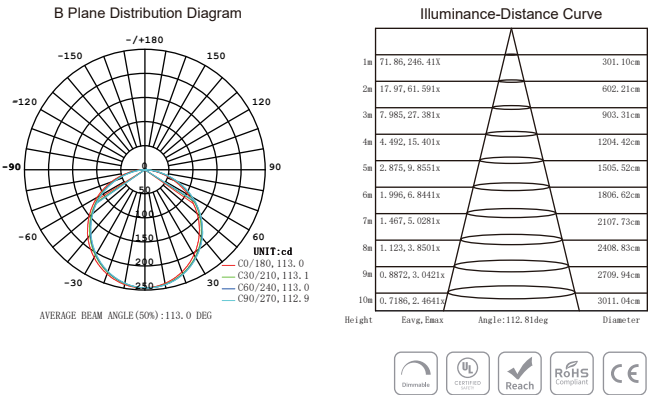
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNTF24140T09-0A39	14.4	2700	46	663	>90/>40	/	/	66
CLT-INTF24140T09-0A39	14.4	3000	47	677	>90/>40	/	/	66
CLT-DNTF24140T09-0A29	14.4	4000	48	690	>90/>40	/	/	66
CLT-WNTF24140T09-0A29	14.4	6500	48	690	>90/>40	/	/	66



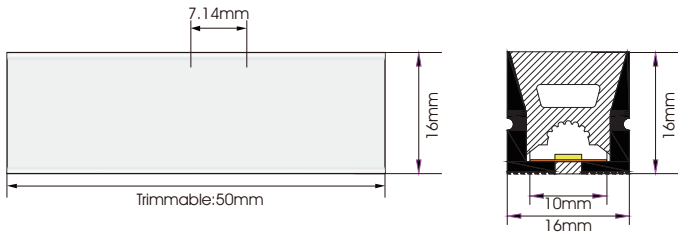
16x16mm Top View Neon Light (10mm)

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

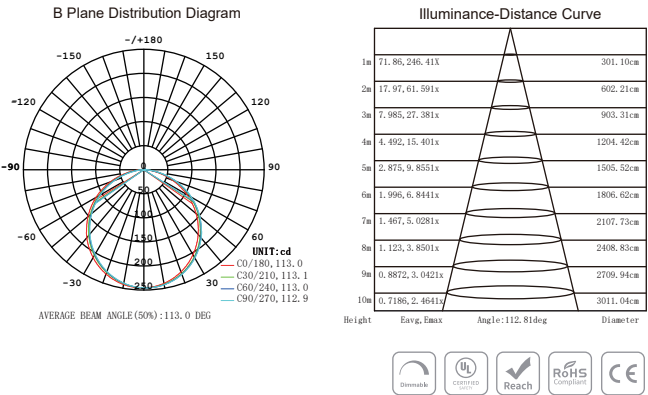
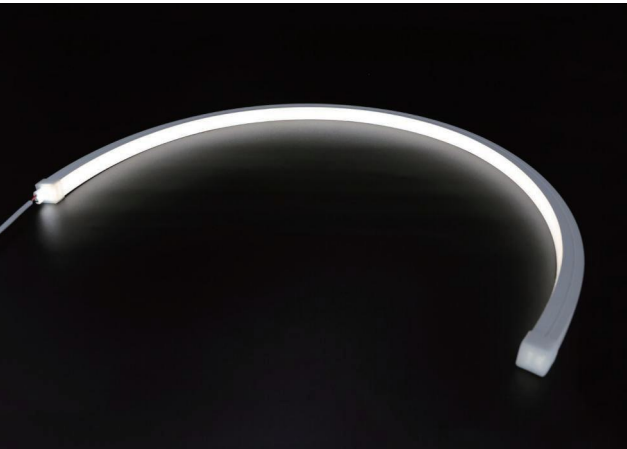
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNTF24140T09-0A39	14.4	2700	42	607	>90/>40	/	/	66
CLT-INTF24140T09-0A39	14.4	3000	43	619	>90/>40	/	/	66
CLT-DNTF24140T09-0A39	14.4	4000	44	632	>90/>40	/	/	66
CLT-WNTF24140T09-0A39	14.4	6500	44	632	>90/>40	/	/	66



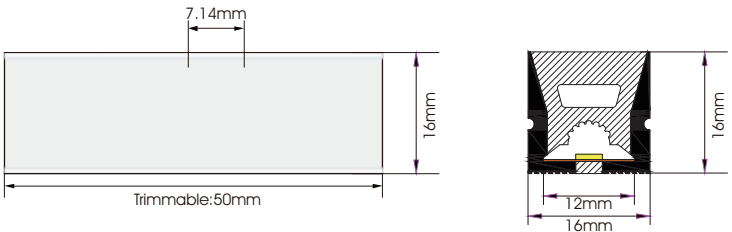
16x16mm Top View Neon Light (12mm)

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 12mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

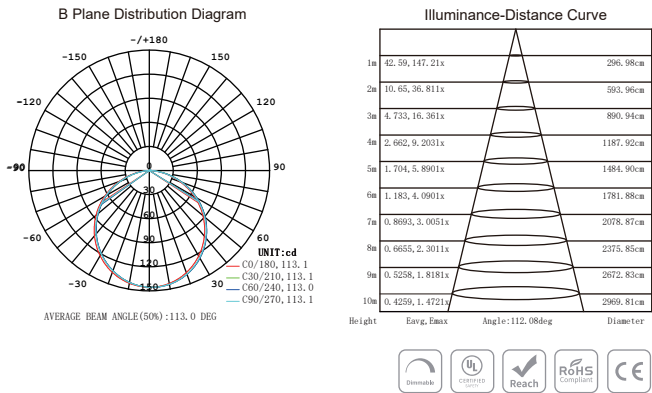
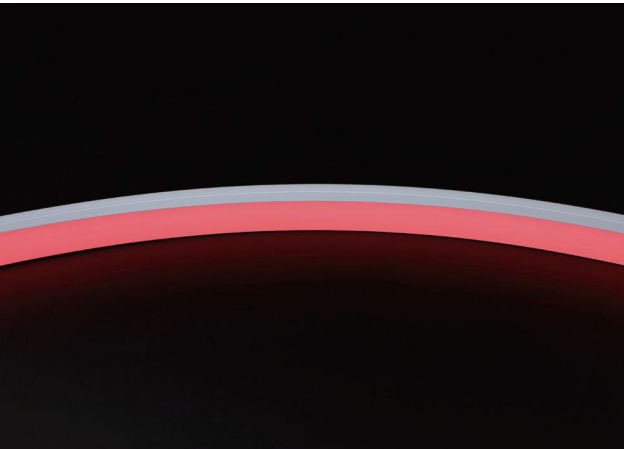
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNTF24140T09-2A39	14.4	2700	42	607	>90/>40	/	/	66
CLT-INTF24140T09-2A39	14.4	3000	43	619	>90/>40	/	/	66
CLT-DNTF24140T09-2A29	14.4	4000	44	632	>90/>40	/	/	66
CLT-WNTF24140T09-2A29	14.4	6500	44	632	>90/>40	/	/	66



16x16mm RGB+W Top View White Neon Light

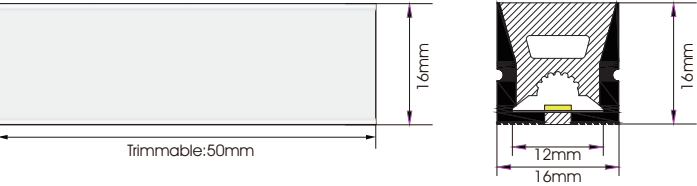
Electrical Data

Light Beads	: 2835RGB+2216W
Number Led/M	: 120+120pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 12mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305118001	Direct cable end cap	
103305118002	Sealing end cap	
101101101110	Aluminum clip	
101101101109	Aluminum channel	
101104101007	Flexible profile	

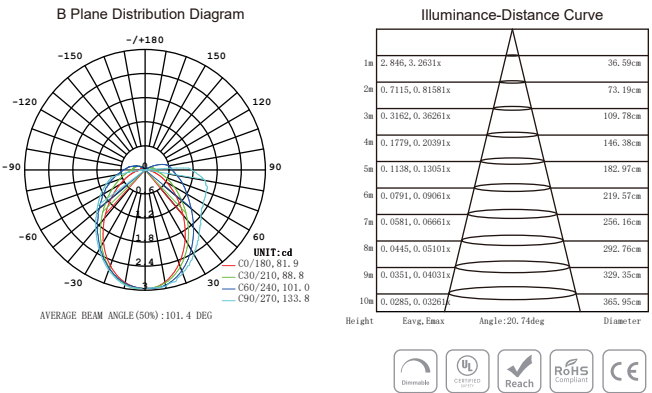
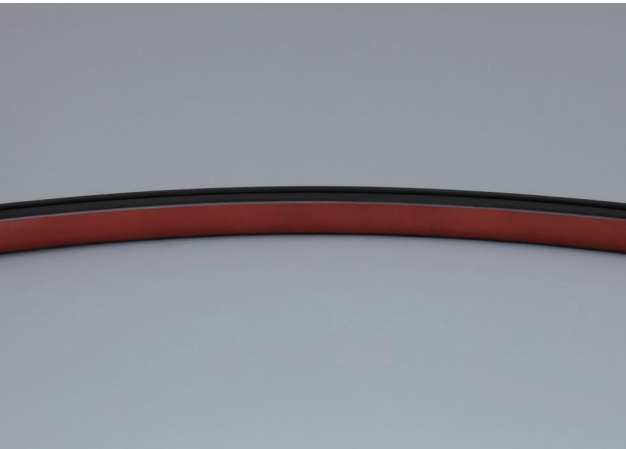
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/W	LM/W	Energy efficiency class	IP (Optional)
CLT-WRTF24192T09-2A60	4.45	24	R	620-630	11	47	/	66
	5.06	24	G	515-525	29	144	/	66
	5.06	24	B	460-470	6	31	/	66
	4.36	24	W(3000K)	/	35	151	/	66
	19.2	24	RGBW	/	18	344	/	66



16x16mm RGB+W Top View Black Neon Light

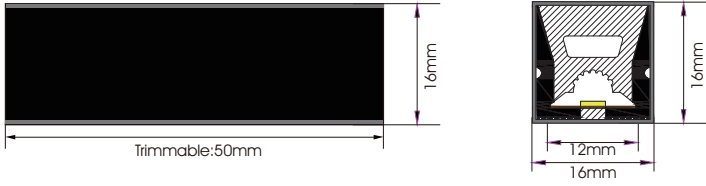
Electrical Data

Light Beads	: 2835RGB+2216W
Number Led/M	: 120+120pcs
Power W/m±10%	: 19.2W
Voltage	: 24V
PCB Width	: 12mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101096	Direct cable end cap	
103305101097	Sealing end cap	
101101101110	Aluminum clip	
101101101109	Aluminum channel	
101104101007	Flexible profile	

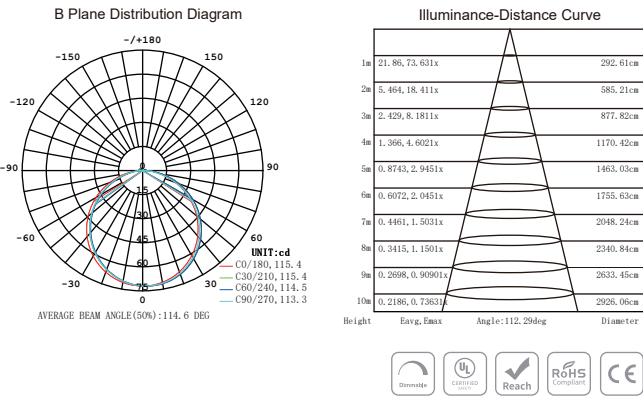
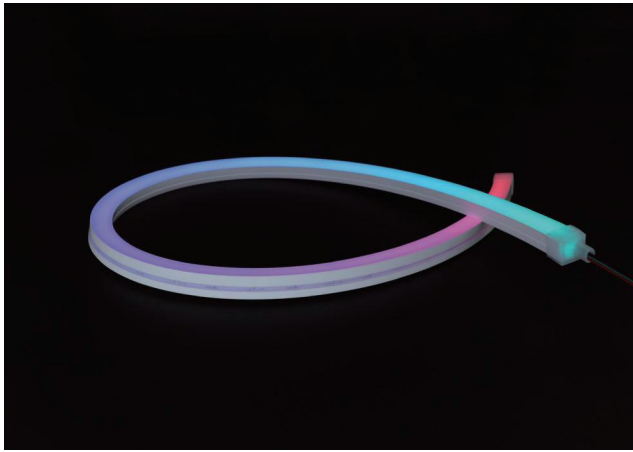
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/W	LM/W	Energy efficiency class	IP (Optional)
CLT-WRTF24192T09-2A60	4.45	24	R	620-630	0.39	1.74	/	66
	5.06	24	G	515-525	0.65	3.29	/	66
	5.06	24	B	460-470	0.12	0.16	/	66
	4.36	24	W(3000K)	/	0.93	4.05	/	66
	19.2	24	RGBW	/	0.49	9.41	/	66



16x16mm Side View RGB digital chasing Neon Light

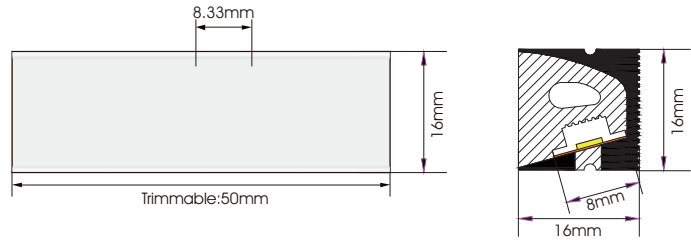
Electrical Data

Light Beads	: 2835
Number Led/M	: 120pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 8mm
CRI	: /
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305118001	Direct cable end cap	
103305118002	Sealing end cap	
101101101110	Aluminum clip	
101101101109	Aluminum channel	
101104101007	Flexible profile	

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	DC (V)	Colour	Wavelength (nm)	LM/W	LM/W	Energy efficiency class	IP (Optional)
CLT-W2TF24120T09-8A30	5.2	24	R	620-630	11	56	/	66
	5.5	24	G	515-525	33	181	/	66
	5.2	24	B	460-470	7	37	/	66
	14.4	24	RGB	/	18	264	/	66



APPLICATION SCENARIOS

WATERPROOF LED STRIP

IP67 Xribbon

IP54 Silicon Glue

IP54 Silicon Glue Extrusion

IP66 Silicon Glue Extrusion Curve Shape

IP66 Silicone Tube

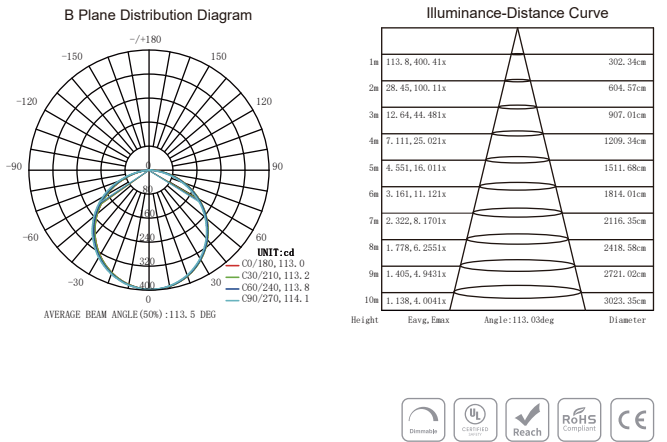
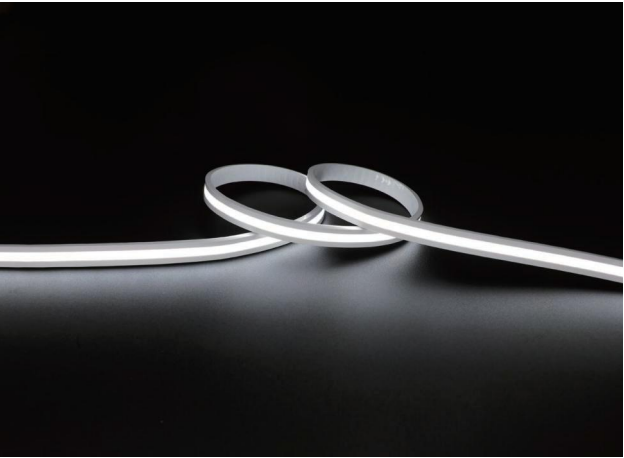
IP66 Silicon Glue Extrusion Square Shape

IP66 Dual Color Silicon Glue Extrusion

IP67 Dual Color Silicon Glue solid square

IP67 Silicon Glue Extrusion Solid Square





IP67 Xribbon

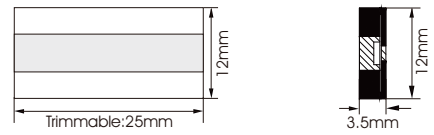
Electrical Data

Light Beads	: 2220
Number Led/M	: 280pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 25mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102019	Direct cable end cap	
103305102020	Sealing end cap	

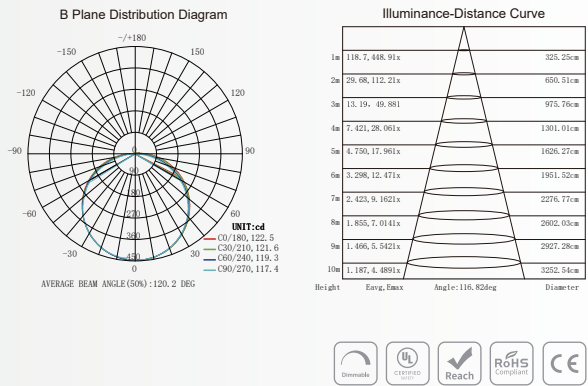
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNMF24280T00-0A29	14.4	2700	70	1008	>90/>40	/	/	67
CLT-INMF24280T00-0A29	14.4	3000	70	1008	>90/>40	/	/	67
CLT-DNMF24280T00-0A29	14.4	4000	73	1151	>90/>40	/	/	67
CLT-WNMF24280T00-0A29	14.4	6000	73	1151	>90/>40	/	/	67



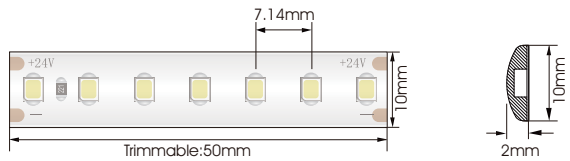
IP54 Silicon Glue

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

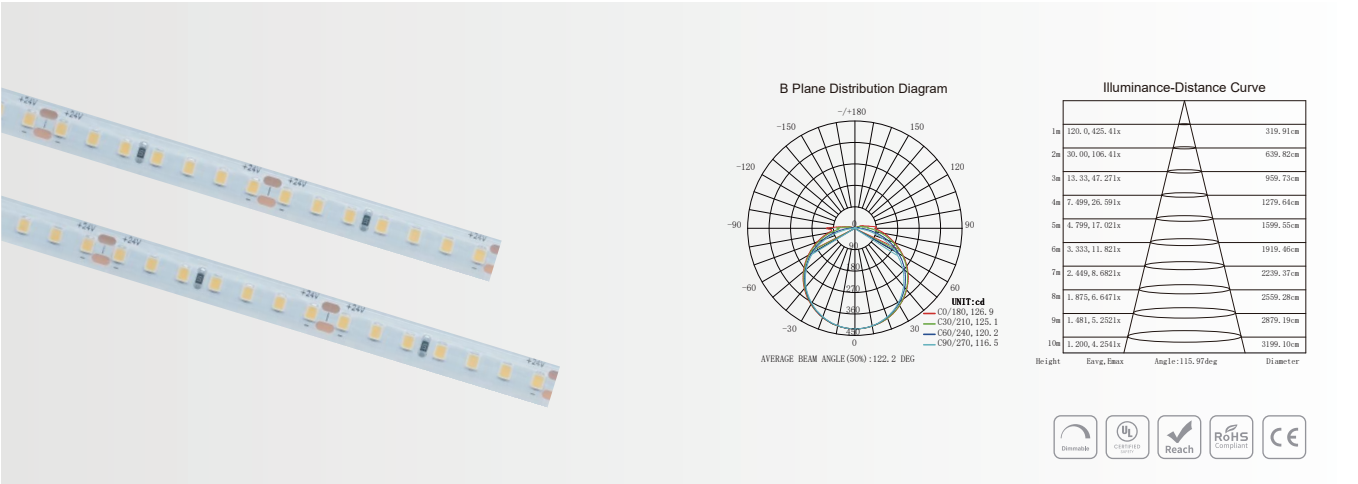
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNWF24140T09-0A39	14.4	2700	90	1296	>90/>40	/	/	54
CLT-INWF24140T09-0A39	14.4	3000	90	1296	>90/>40	/	/	54
CLT-DNWF24140T09-0A39	14.4	4000	95	1368	>90/>40	/	/	54
CLT-FNWF24140T09-0A39	14.4	5000	95	1368	>90/>40	/	/	54
CLT-WNWF24140T09-0A39	14.4	6000	95	1368	>90/>40	/	/	54



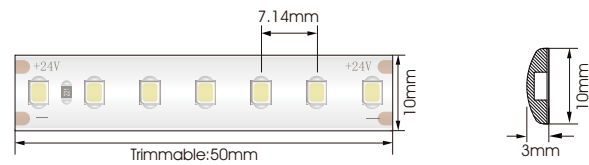
IP54 Silicon Glue Extrusion

Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

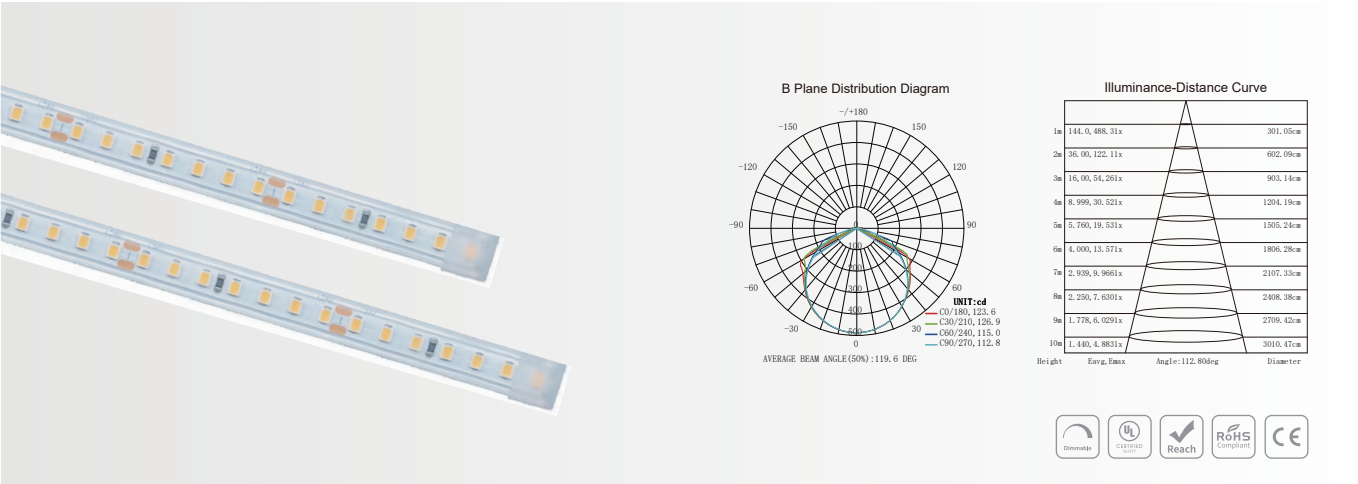
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNDF24140T09-0A39	14.4	2700	90	1296	>90/>40	/	/	54
CLT-INDF24140T09-0A39	14.4	3000	90	1296	>90/>40	/	/	54
CLT-DNDF24140T09-0A39	14.4	4000	95	1368	>90/>40	/	/	54
CLT-FNDF24140T09-0A39	14.4	5000	95	1368	>90/>40	/	/	54
CLT-WNDF24140T09-0A39	14.4	6000	95	1368	>90/>40	/	/	54

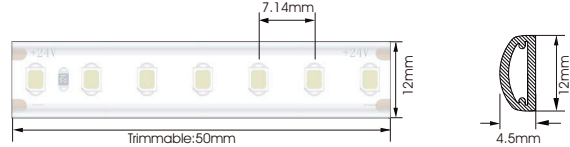


IP66 Silicon Glue Extrusion Curve Shape

Electrical Data

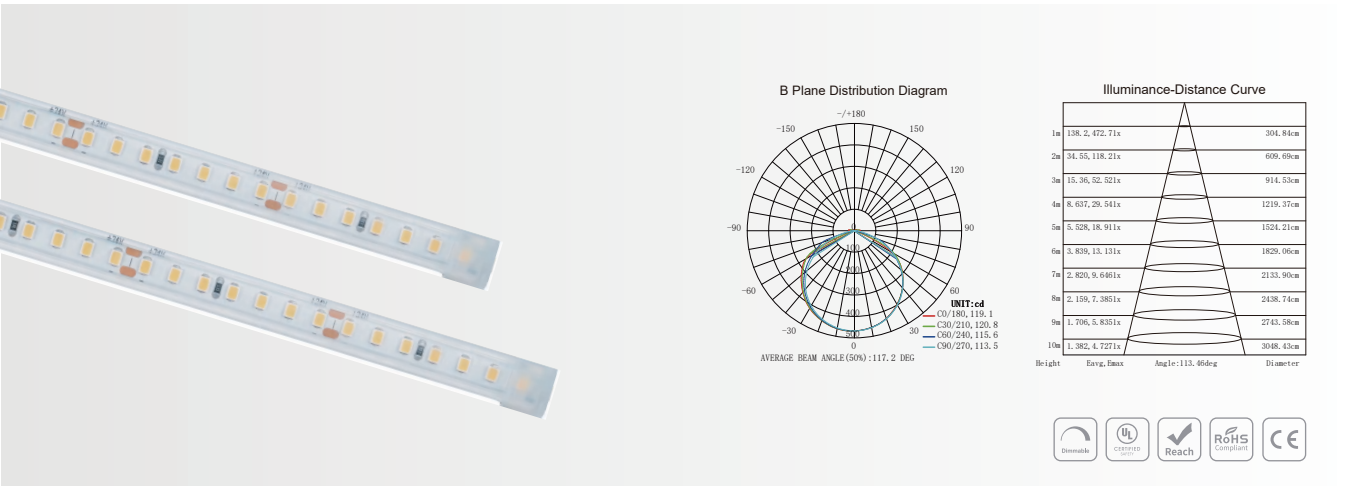
Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305101010	Direct cable end cap	
103305101008	Sealing end cap	



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNHF24140T09-0A39	14.4	2700	85	1224	>90/>40	/	/	66
CLT-INHF24140T09-0A39	14.4	3000	85	1224	>90/>40	/	/	66
CLT-DNHF24140T09-0A39	14.4	4000	90	1296	>90/>40	/	/	66
CLT-FNHF24140T09-0A39	14.4	5000	90	1296	>90/>40	/	/	66
CLT-WNHF24140T09-0A39	14.4	6000	90	1296	>90/>40	/	/	66



IP66 Silicon Tube

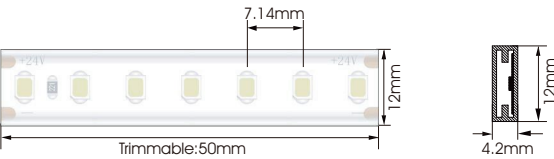
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102016	Direct cable end cap	
103305102015	Sealing end cap	

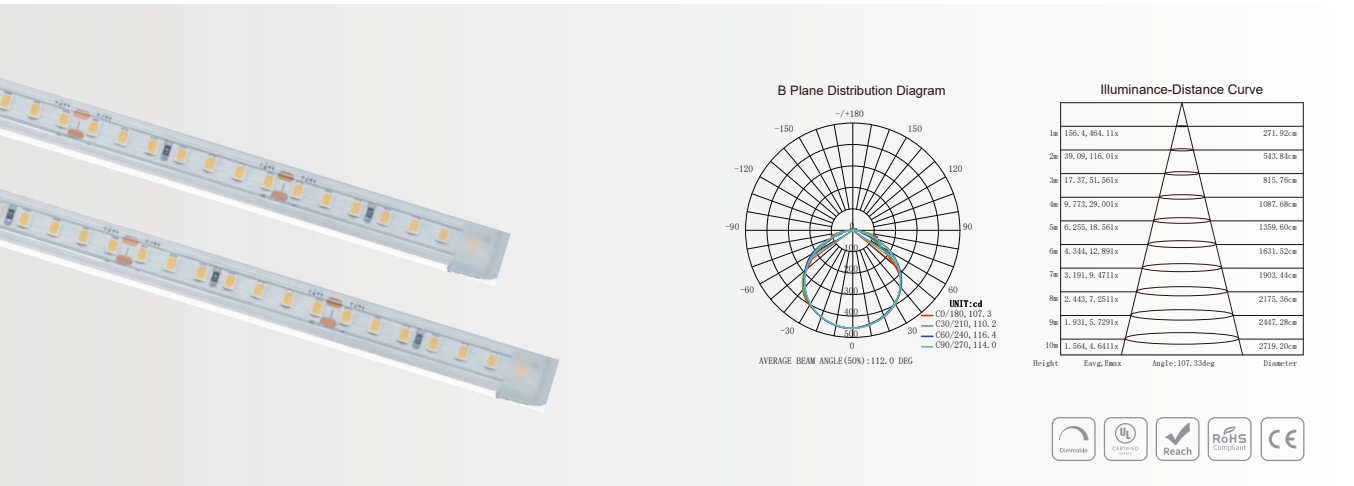
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNTF24140T09-0A39	14.4	2700	85	1224	>90/>40	/	/	66
CLT-INTF24140T09-0A39	14.4	3000	85	1224	>90/>40	/	/	66
CLT-DNTF24140T09-0A39	14.4	4000	90	1296	>90/>40	/	/	66
CLT-FNTF24140T09-0A39	14.4	5000	90	1296	>90/>40	/	/	66
CLT-WNTF24140T09-0A39	14.4	6000	90	1296	>90/>40	/	/	66



IP66 Silicon Glue Extrusion Square Shape

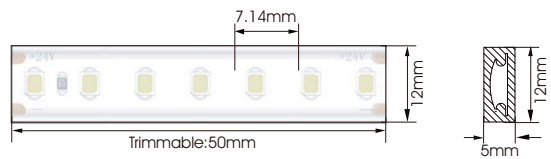
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102001	Direct cable end cap	
103305101001	Sealing end cap	

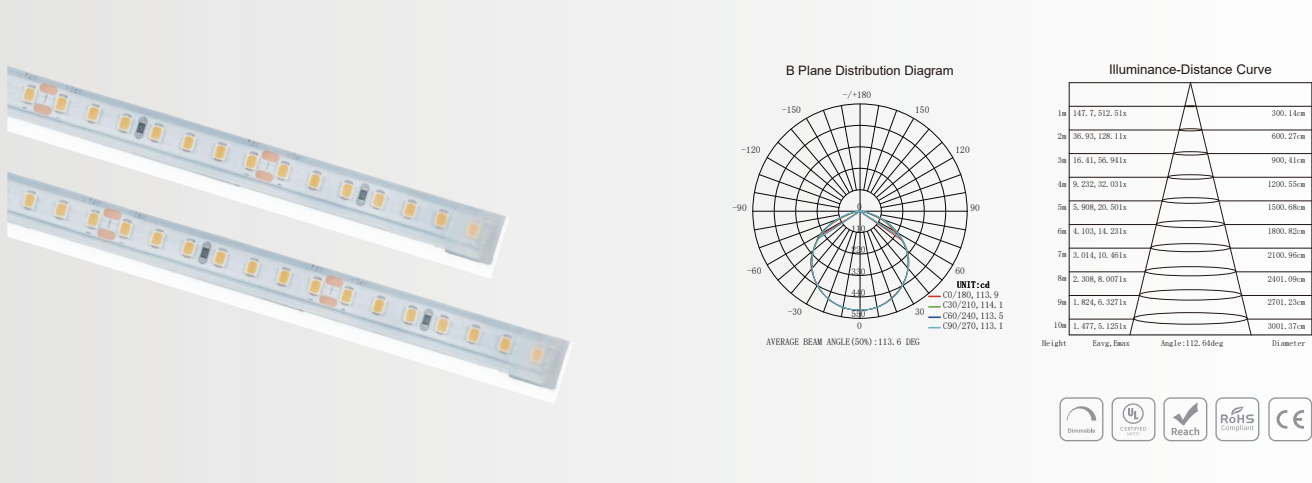
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNJF24140T09-0A39	14.4	2700	85	1224	>90/>40	/	/	66
CLT-INJF24140T09-0A39	14.4	3000	85	1224	>90/>40	/	/	66
CLT-DNJF24140T09-0A39	14.4	4000	90	1296	>90/>40	/	/	66
CLT-FNJF24140T09-0A39	14.4	5000	90	1296	>90/>40	/	/	66
CLT-WNJF24140T09-0A39	14.4	6000	90	1296	>90/>40	/	/	66



IP66 Dual Color Silicon Glue Extrusion

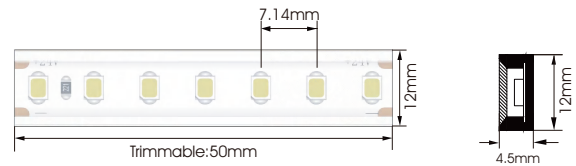
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102001	Direct cable end cap	
103305101001	Sealing end cap	

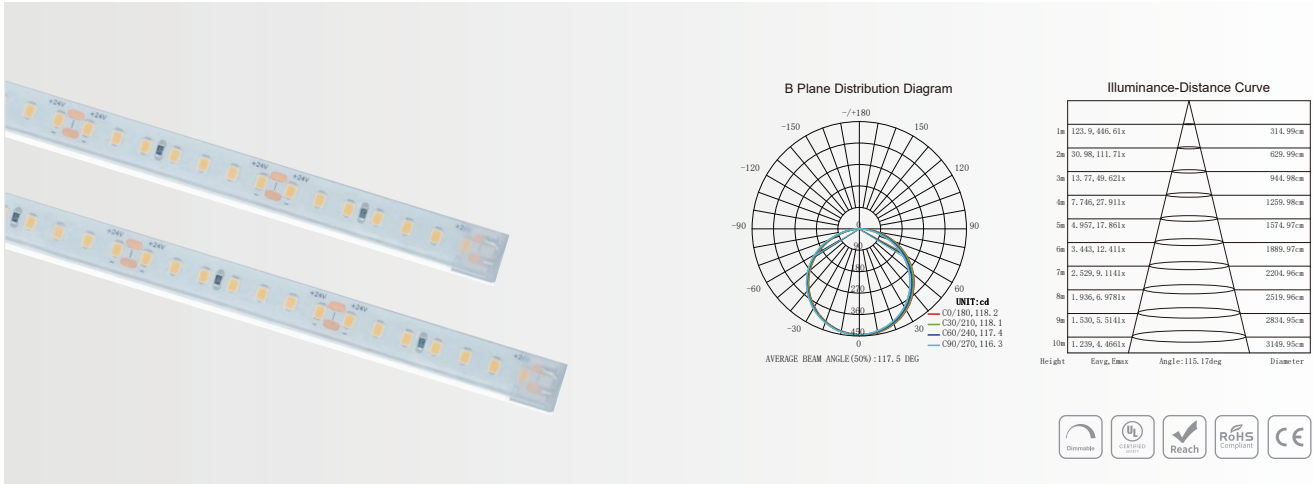
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNQF24140T09-0A39	14.4	2700	80	1152	>90/>40	/	/	66
CLT-INQF24140T09-0A39	14.4	3000	80	1152	>90/>40	/	/	66
CLT-DNQF24140T09-0A39	14.4	4000	85	1224	>90/>40	/	/	66
CLT-FNQF24140T09-0A39	14.4	5000	85	1224	>90/>40	/	/	66
CLT-WNQF24140T09-0A39	14.4	6000	85	1224	>90/>40	/	/	66



IP67 Dual Color Silicon Glue solid square

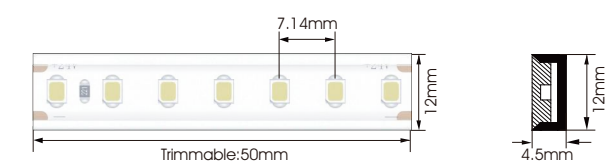
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102001	Direct cable end cap	
103305101001	Sealing end cap	

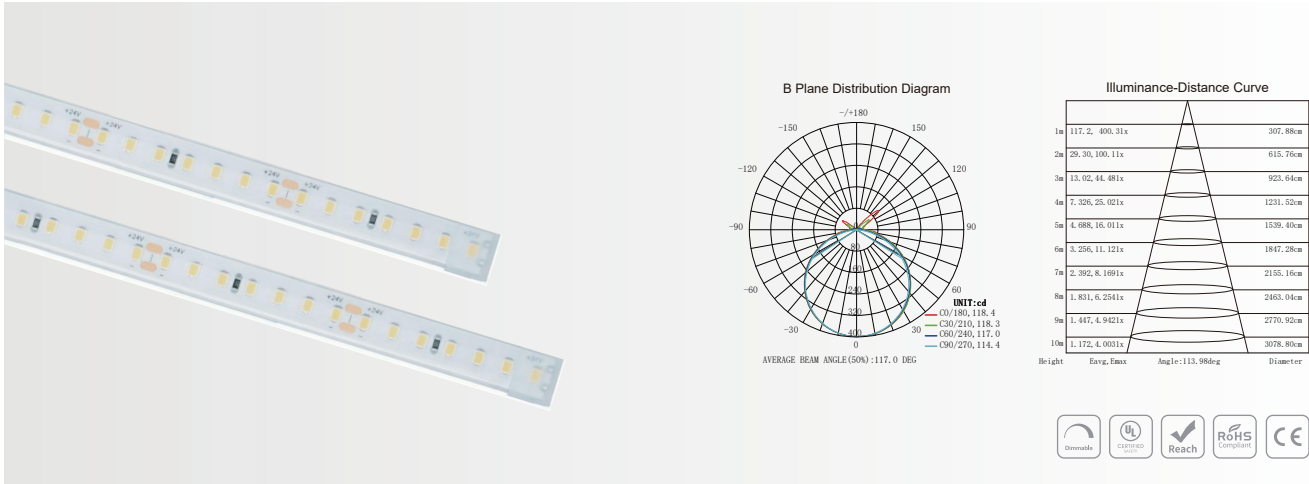
Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency in McAdam ellipses	IP (Optional)
CLT-KNMF24140T09-0A39	14.4	2700	85	1224	>90/>40	/	/	67
CLT-INMF24140T09-0A39	14.4	3000	85	1224	>90/>40	/	/	67
CLT-DNMF24140T09-0A39	14.4	4000	90	1296	>90/>40	/	/	67
CLT-FNMF24140T09-0A39	14.4	5000	90	1296	>90/>40	/	/	67
CLT-WNMF24140T09-0A39	14.4	6000	90	1296	>90/>40	/	/	67



IP67 Silicon Glue Extrusion Solid Square

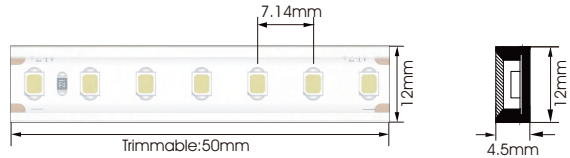
Electrical Data

Light Beads	: 2835
Number Led/M	: 140pcs
Power W/m±10%	: 14.4W
Voltage	: 24V
PCB Width	: 10mm
CRI	: >90
Max length (30% lumen drop)	: 5m
Cut Size	: 50mm

Product Accessories		
Part No.CTL	Name	Physical Drawing
103305102001	Direct cable end cap	
103305101001	Sealing end cap	

Standards / Normative Requirements

Protection class	: EN 60529
Safety Requirements	: EN 62031 IEC 60598-1
EMC / radio disturbance characteristics	: EN 55015
ROHS	: Yes
CE	: Yes



Product parameters

Part No.CTL	Power (W/M)	CCT (K)	LM/W	LM/M	CRI/R9	Energy efficiency class	Colour consistency In McAdam ellipses	IP (Optional)
CLT-KNSF24140T09-0A39	14.4	2700	80	1152	>90/>40	/	/	67
CLT-INSF24140T09-0A39	14.4	3000	80	1152	>90/>40	/	/	67
CLT-DNSF24140T09-0A39	14.4	4000	85	1224	>90/>40	/	/	67
CLT-FNSF24140T09-0A39	14.4	5000	85	1224	>90/>40	/	/	67
CLT-WNSF24140T09-0A39	14.4	6000	85	1224	>90/>40	/	/	67



APPLICATION SCENARIOS



COOLIGHT LED strip product model decoding table										
1-3	4-5		6-7	8-9	10-12	13-15	16	17	18	19
CLU(T) (X)	-	①①	②②	③③	④④④	T⑤⑤-	⑥	⑦	⑧	⑨
1	2	3	4	5	6	7	8	9	10	

- 1: The 1-3 letters,**
“CLU” represents COOLIGHT UL approved strip series;
“CLT” represent COOLIGHT regular strip series;
“CLX” represent COOLIGHT UL strip products in addition to CLU series.
- 2: The 4-5 letters represent LED CCT,** If ①① is CN, means7000K 、 WN: 6000-7000K 、 EN: 5300-6000K 、 FN: 4700-5300K 、 LN: 4200-4700K 、 DN: 3800.4200K 、 MN: 3300-3800K 、 IN: 2800-3300K 、 KN: 2600-2800K 、 NN: 2400-2600K 、 SN: 2200-2400K 、 ON: 1900-2200K 、 PN: 1700-1900K
BN: blue 、 GN: Green 、 YU: Yellow 、 OU: Red 、 W2: RGB 、 AB:Amber 、 QN: Pink 、 UV: Violet （Wl: white mixed 、 WV: White light monolight mixing 、 WR: white +RGB 、 WW: double white +RGB. [Exact CCT is to be showed in LED strip description.](#))
- 3: The 6-7 letters indicate the type of waterproofing and product classification, denoted as ②②=AX:**
Waterproof Types (A):
A=N: Non-waterproof, IP20
A=G: Non-waterproof, IP20 PRO series
A=W: Silicon glue waterproof, IP54
A=T: Silicon tube waterproof, IP66
A=K: Silicone tube with glue filling waterproof, IP67
A=B: Semi-tube with resin coating, IP66
A=P: Nano-Waterproof
A=J: Extrusion tube Square shape, IP66
A=C: Semi-tube extrusion, IP54
A=H: Extrusion tube Curved shape / Neon led strip front view, IP66
A=S: Extrusion with Glue inside, IP67
A=D: Silicon Glue Extrusion Waterproof, IP54
A=M: Dual color Extrusion with glue inside, IP67
A=Q: Dual color Extrusion tube with silicon / Neon led strip side view, IP66
Product Types (X):
X=F: Flexible LED strip
X=A: Aluninum profile rigid strip
X=P: Rigid strip without dissipater
- 4: The 8-9 letters represent working voltage of strip,** If ③③ is “12”, it means 12v DC, “24” means 24V DC, “05” means 5V DC, “11” means 110V DC, “222” means 220V DC
- 5: The 10-12 letters represent LEDs quantity per meter,** If ④④④ is 060 ,it means 60leds/meter, 120 means 120leds/meter
- 6: The 13-15 letters represent type of LEDs,** If “T⑤⑤ is T02, it means 3528 and 3838 products,
T03= 5050 Products, T04= 335 Side Luminous Products, T05=5730 Products, T06=0603 Products, T07=3014 Top view Products, T08=3014 Side view Products, T09=2835 Products, T10=2110 Products, T16=2216 Products, T00=COB and CSP Products,T30=3040 Products, T20=2220 Products, T12=1612 Products, T25=2025 Products. The RGB individual white light corresponds to the respective white light, and the type of RGB is described in the description.
- 7: The 16 number or letter width of pcb,** If ⑥ is 0, it means that the PCB width is 10mm,
0=10mm, 2=12mm, 3=13mm, 4= 14mm, 5= 5mm, 6= 6mm, 7=7mm, 8=8mm, 9=9mm, A=3mm, B=4mm, C=7.5mm, D=15mm, E=19mm, F=20mm, G= 30mm, H= 15.6mm, I=11.5mm, J=39mm, K=16mm, L=4.8mm, M=8.5mm, N= 3.5mm, 1=11mm, P=25mm, Q=46mm.
- 8: The 17 letters represent rows of LEDs in pcb,**
If ⑦ is A , it means single row , B means double rows, C means triple rows, D means quadruple rows.
- 9:The 18 letters represent rated current of single LED,**
If ⑧ is 1, it means10mA, 2=11-20mA, 3=21-30mA, 4=31-40mA, 5=41-50mA, 6=51-60mA, 9=80-90mA
- 10: The 19 letters rep resent Ra(CRI) of LED strip,** If ⑨ is 7, it means CRI70, 8=CRI80, 9=CRI90, 5=CRI95, 6=Full spectrum CRI95,
0=No CRI Request /RGB. RGB+ single white light or double white light is determined by white light.

EG:
1) CLU-INNF24120T16-8A29, Means: 24V, 120LED/m, 2216 series, 3000K, 8mm PCB width, single row, LED current of 20mA , CRI90 of COOLIGT UL non-waterproof flexible strip.

2) CLT-INWF24120T16-8A29, Means: 24V, 120LED/m, 2216 series, 3000K, 8mm PCB width, single row, LED current of 20mA , CRI90 of COOLIGT Silicon Glue Waterproof Flexible Led Strip.