



integrating
lighting
technologies

Product Catalogue
2024 | 2025

Dal 2007 il ruolo di **Universal Science S.r.l.** consiste nell'offrire al cliente un servizio di collaborazione nello sviluppo di sistemi LED di qualità.

Forte del know-how che affonda le radici nell'esperienza decennale dei propri ingegneri e specialisti, la nostra azienda garantisce ai propri clienti un valido supporto nella progettazione dei corpi illuminanti e dei singoli componenti di un sistema LED. Ci prendiamo cura di ogni aspetto tecnico legato al corretto impiego dei LED: dall'elettronica alla gestione termica, dall'ottica alla meccanica.

Siamo specializzati nella progettazione e produzione di moduli LED, identificati dal brand **RED – Integrating Lighting Technologies**, registrato in Unione Europea e garanzia di qualità e della presenza di una sede produttiva in Italia.

A corredo di questa attività affianchiamo la distribuzione di LED, ottiche, interfacce termiche e sistemi di alimentazione grazie alle partnership strategiche con i maggiori player del mercato.



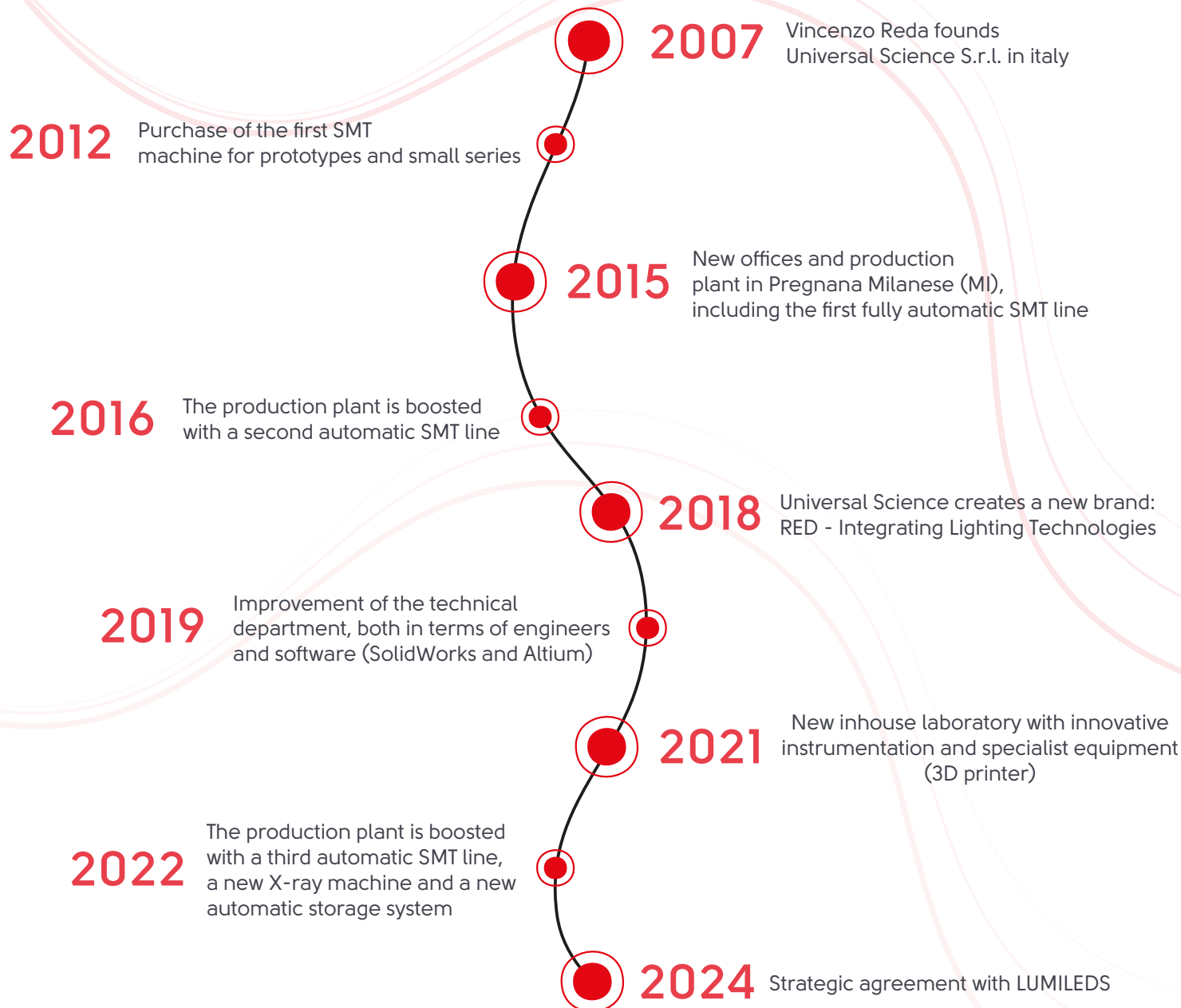
Since 2007 Universal Science S.r.l. has pursued a precise program and a clear focus on its business and its role in the lighting sector: to offer the customer a cooperation service in development of quality LED systems.

Thanks to the experience and know-how of its engineers and specialists, our company guarantees a dedicated support to customers in the design of lighting fixtures and single components of a LED system. We consider every technical aspect regarding the correct use of LEDs: from electronics to thermal management, from optics to mechanics.

We are specialized in development and production of LED modules, identified by the **RED – Integrating Lighting Technologies** brand, which is registered in Europe, guarantee of quality and symbol of the presence of a production site in Italy. This service goes with the distribution of LED chips, optics, thermal interfaces and power supply thanks to strategic partnerships with the major players on the market.



COMPANY MILESTONES



OUR NUMBERS

400+ CUSTOMERS ALL OVER THE WORLD

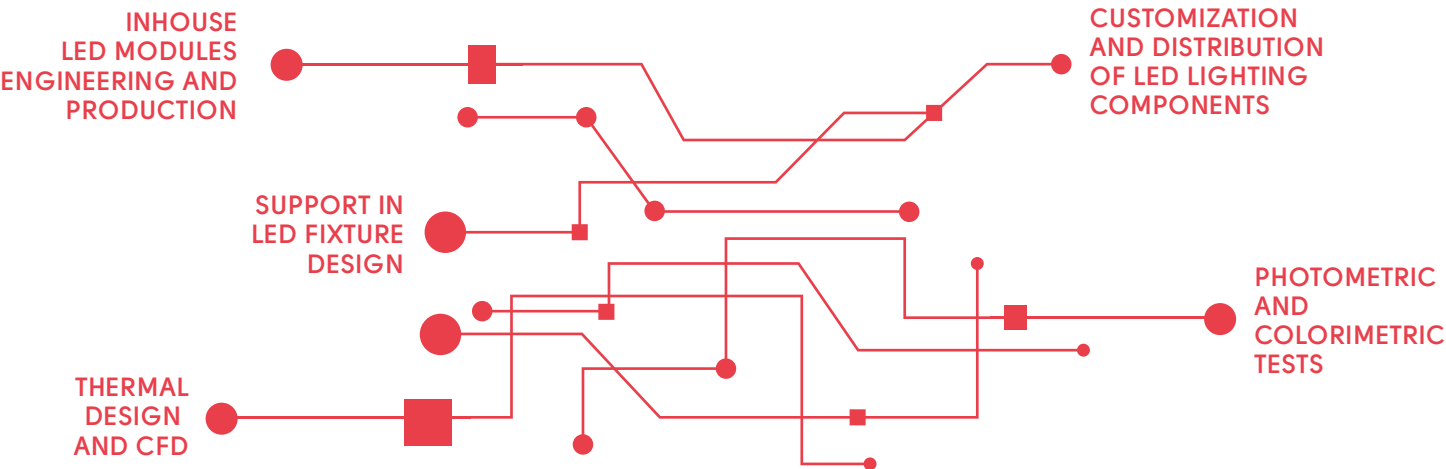
65+ EMPLOYEES AND SALES PEOPLE

250 MILLIONS+ LEDs MOUNTING CAPABILITY PER YEAR

1000+ LED PROJECTS

2000+ OFFICES SQ.M.

Featured services



Support in LED fixture design



ELECTRONIC DESIGN



OPTICS DESIGN



MECHANICAL DESIGN



THERMAL DESIGN

WE ARE



Main partners





INDEX

LightMAX

High power lighting solutions

page 8

LineMAX

Linear lighting solutions

page 34

DecoMAX

Decorative lighting solutions

page 76

DotMAX

Spot lighting solutions

page 86

FlatMAX

Low-bay lighting solutions

page 112

SpecialRED

UV lighting solutions

page 138

SpecialRED

Driver modules

page 150

SpecialRED

Horticulture lighting

page 158

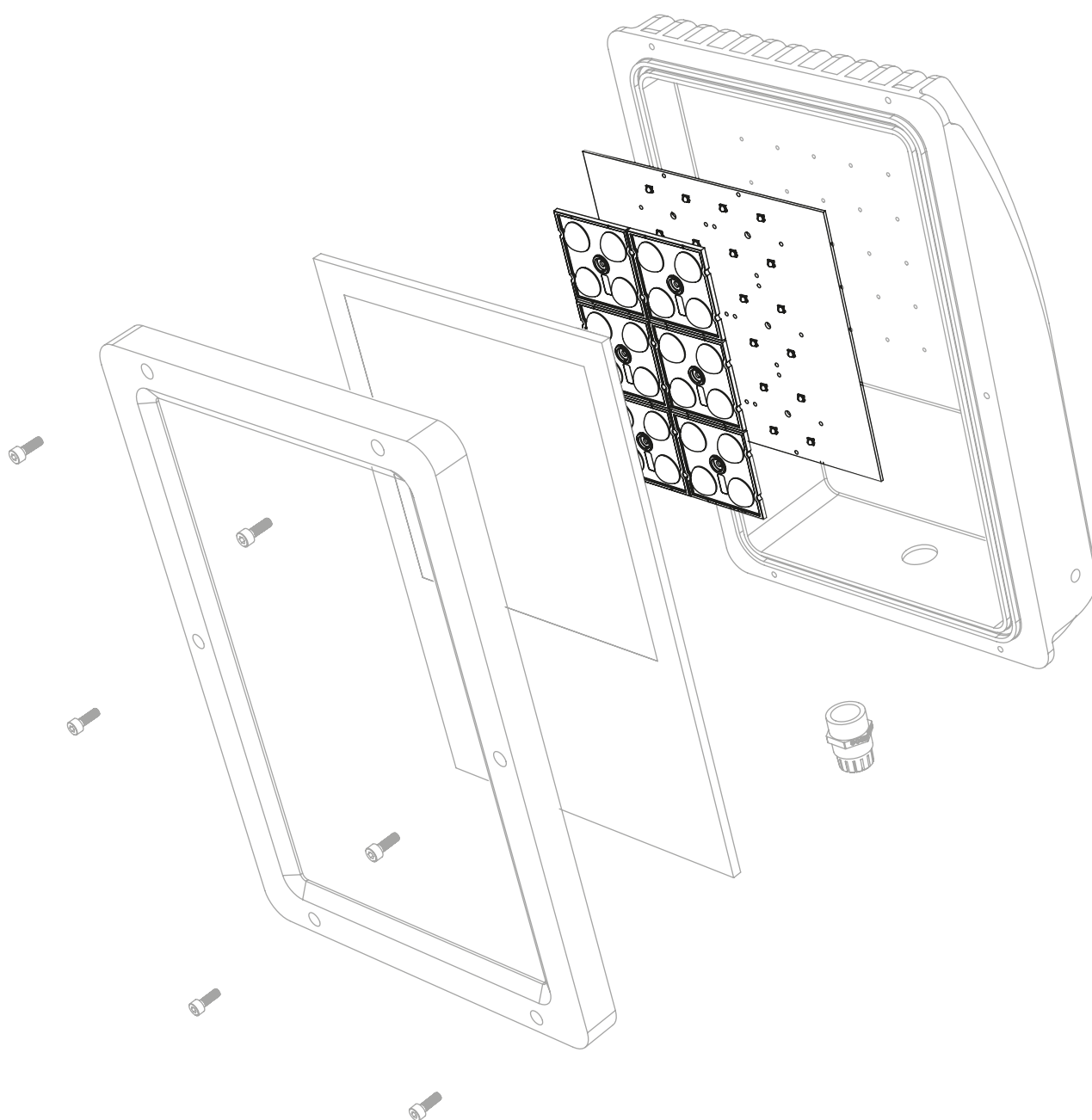
Product Nomenclature

page 163



LightMAX

High power lighting solutions



LightMAX

2x8 power LED module| R0229



Features

- PCB dimension: 220x50mm;
- Up to 6827 lm;
- Up to 150 lm/W;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 5 LED boards in series;
- Connection type: 2060 series 1 pole;
- Lifetime >72000h @ 1050mA 55°C;
- NTC available on request;
- Available with Osram Oslon Square LEDs (code: R0444).

Applications



Street



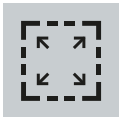
Industrial



Downlight



High Bay



Area

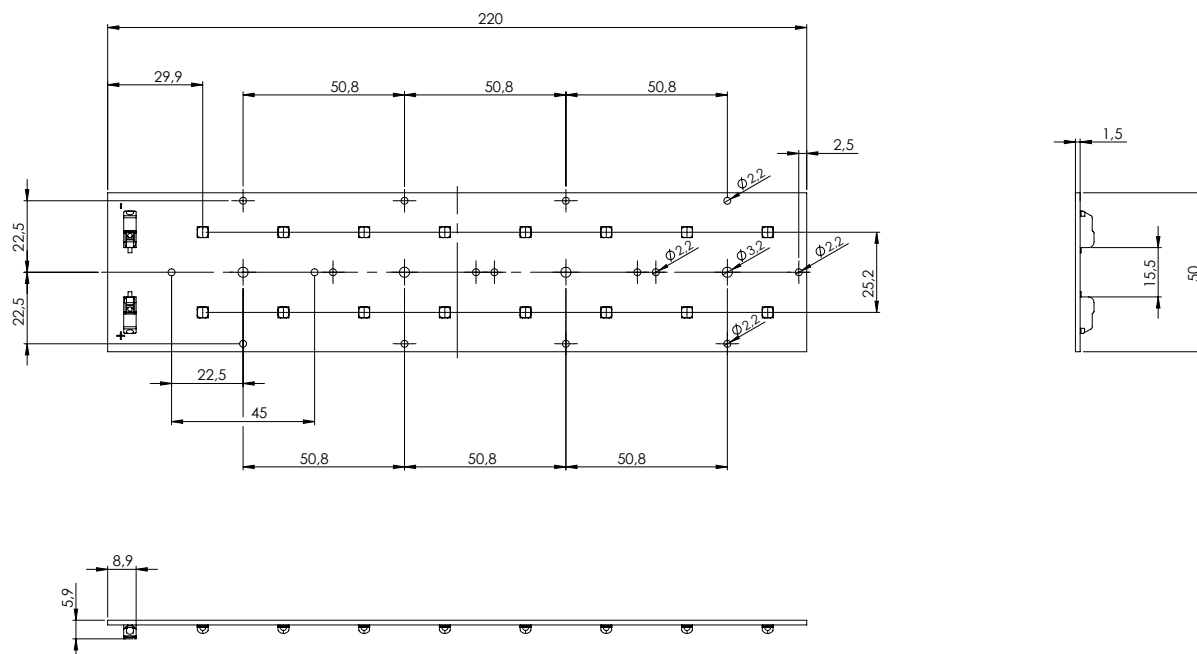
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0229012770	2700K	70	700	46,1	32,2	4758	147	D A ↑ G
			1050	47,3	49,6	6706	135	D A ↑ G
R0229013070	3000K		700	46,1	32,2	4843	150	D A ↑ G
			1050	47,3	49,6	6826	138	D A ↑ G
R0229014070	4000K		700	46,8	32,7	4848	148	D A ↑ G
			1050	47,8	50,2	6827	136	D A ↑ G
R0229015070	5000K		700	46,8	32,7	4848	148	D A ↑ G
			1050	47,8	50,2	6827	136	D A ↑ G



LightMAX

2x8 power LED module| R0229

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL04CR-BXJ80I50L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45I55L02 (Type III-Short)	45° x 145°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CEC09L06	9°
LL04CR-CEC25L06	25°
LL04CR-CEC50L06	50°
LL04CR-CFN35I55L02 (Type II-Medium)	35° x 155°
LL04CR-CFN60I55L02 (Type III-Medium)	60° x 155°
LL04CR-CGM85I35L02 (Type I-Short)	85° x 135°
LL04CR-CXE165L19 (Type V-Medium)	165°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-220X50	220x50	0,23	1,5	0,45	>6000	V0

LightMAX

16 power LED module | R0484



Features

- PCB dimension: 220x50mm;
- Up to 11108 lm;
- Up to 188 lm/W, up to 205 lm/W @ 350mA;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 4 LED boards in series;
- Connection type: Wago 2060 series 1 pole;
- Lifetime > 100.000h @ 700mA<math><1050\text{mA}</math> L90B10;
- NTC available on request (10k standard).

Applications



Street



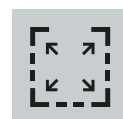
Industrial



Downlight



High Bay



Area

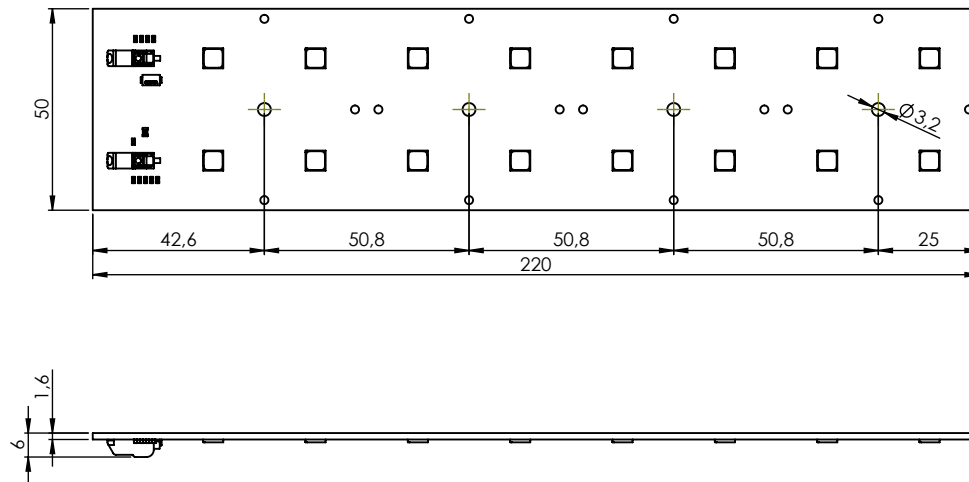
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0484012770	2700K	70	700	45	31.5	5534	176	C A↑ G
			1000	46.1	46.1	7686	167	D A↑ G
			1400	47.5	66.5	10367	156	D A↑ G
R0484013070	3000K		700	45	31.5	5750	183	C A↑ G
			1000	46.1	46.1	7986	173	D A↑ G
			1400	47.5	66.5	10771	162	D A↑ G
R0484014070	4000K		700	45	31.5	5930	188	C A↑ G
			1000	46.1	46.1	8235	179	C A↑ G
			1400	47.5	66.5	11108	167	D A↑ G
R0484015070	5000K		700	45	31.5	5930	188	C A↑ G
			1000	46.1	46.1	8235	179	C A↑ G
			1400	47.5	66.5	11108	167	D A↑ G



LightMAX

16 power LED module | R0484

Mechanical drawing



Accessories



Lenses

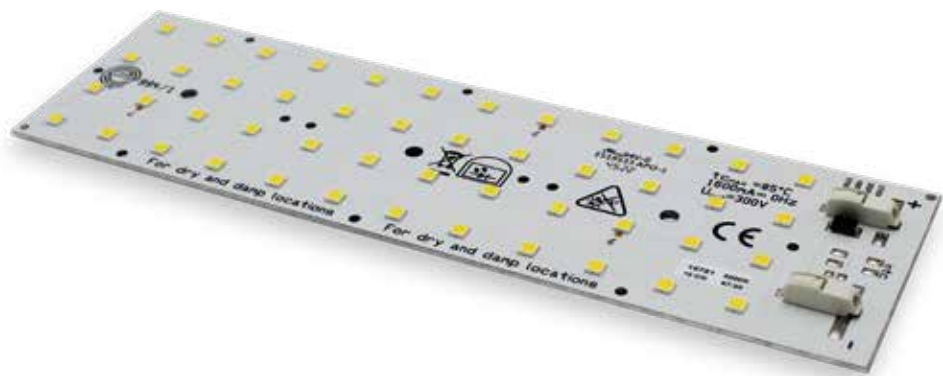
Part number	Beam angle
LL04CR-AU45135L46 (Type II-Short)	45° x 135°
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ95165L19 (Type II-Medium)	95° x 165°
LL04CR-BXJ65165L52 (Type IV-Medium)	65° x 165°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR165L52	165°
LL04LU-CXR2060L06	20° x 60°
LL04CR-DBJ2090L19	20° x 90°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-220X50	220x50	0,23	1,5	0,45	>6000	V0

LightMAX

48 LED module for flood lighting | R0994



Features

- PCB dimension: 170x50mm;
- Up to 8475 lm;
- Up to 185 lm/W;
- CRI 80;
- Electrical Insulation 300V;
- Up to 12 LED boards in series;
- Connection type: Wago SMD 4mm 2 IP 2060;
- Long lifetime up to 80000h;
- NTC available on request;
- 3V LEDs version available on request.

Applications



Street



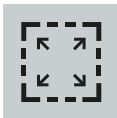
Industrial



Downlight



High Bay



Area

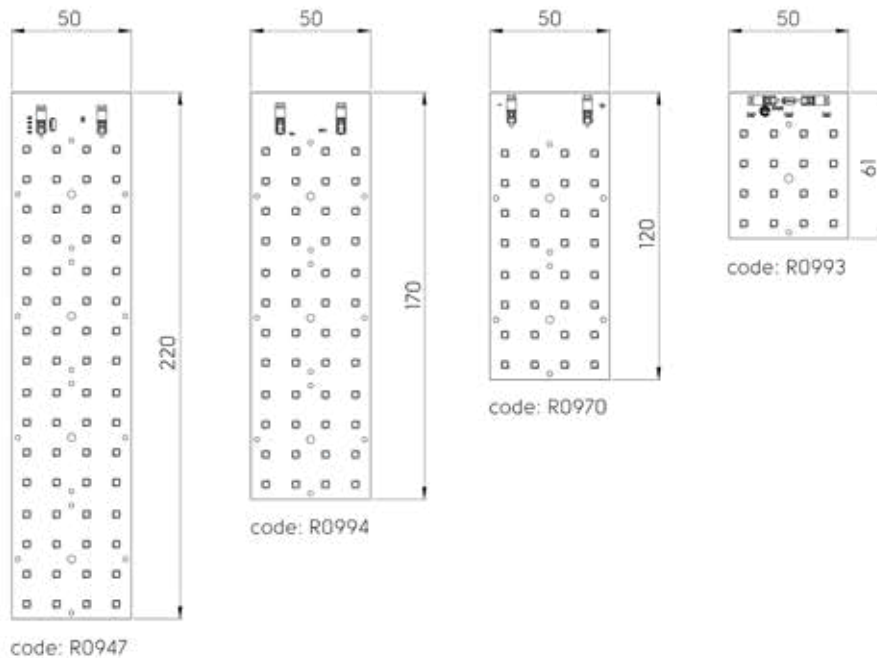
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0994013080	3000K	80	700	33,3	23,3	4000	172	D A↑G
			1050	34,2	35,9	6009	167	D A↑G
			1400	34,9	48,8	8025	164	D A↑G
R0994014080	4000K		700	33,3	23,3	4279	184	C A↑G
			1050	34,2	35,9	6360	177	C A↑G
			1400	34,9	48,8	8475	174	C A↑G
R0994015080	5000K		700	33,3	23,3	4279	184	C A↑G
			1050	34,2	35,9	6360	177	C A↑G
			1400	34,9	48,8	8475	174	C A↑G



LightMAX

48 LED module for flood lighting | R0994

Flood lighting series - Drawings



Accessories



Lenses

Part number	Beam angle
LL16ZZ-DVV25L19	25°
LL16ZZ-DVV55L19	55°
LL16ZZ-DVV90L19	90°
LL16ZZ-DVV150L19	150°
LL16ZZ-DVV2060L19	20° x 60°
LL16ZZ-DVV25145L19	25° x 145°
LL16ZZ-DVV45140L19	45° x 140°
LL16ZZ-DVV45155L19	45° x 155°
LL16ZZ-DVV60145L19	60° x 145°
LL16ZZ-DVV60155L19	60° x 155°
LL16ZZ-DVV70160L19	70° x 160°
LL16ZZ-DVV140140L06	140° x 140°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-170X50	170x50	0,23	1,5	0,45	>6000	V0

LightMAX

2x6 power LED module | R0498



Features

- PCB dimension: 170x50mm;
- Up to 8331 lm;
- Up to 188 lm/W, up to 205 lm/W @ 350mA;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 6 LED boards in series;
- Connection type: Wago 2059/2060 series 1 pole;
- Lifetime > 100.000h @ 700mA$\leq$1050mA L90B10;
- NTC available on request (10k standard).

Applications



Street



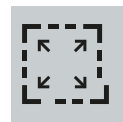
Industrial



Downlight



High Bay



Area

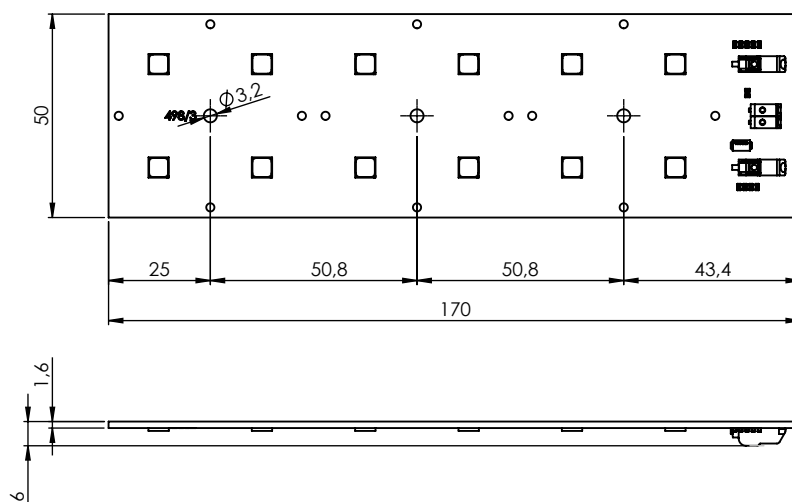
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0498012770	2700K	70	700	33.7	23.6	4151	176	C A↑ G
			1000	34.6	34.6	5765	167	D A↑ G
			1400	35.6	49.8	7775	156	D A↑ G
R0498013070	3000K		700	33.7	23.6	4313	183	C A↑ G
			1000	34.6	34.6	5989	173	D A↑ G
			1400	35.6	49.8	8078	162	D A↑ G
R0498014070	4000K		700	33.6	23.6	4447	188	C A↑ G
			1000	34.6	34.6	6176	178	D A↑ G
			1400	35.6	49.8	8331	167	D A↑ G
R0498015070	5000K		700	33.7	23.6	4447	188	C A↑ G
			1000	34.6	34.6	6176	178	D A↑ G
			1400	35.6	49.8	8331	167	D A↑ G



LightMAX

2x6 power LED module | R0498

Mechanical drawing



Accessories



Lenses

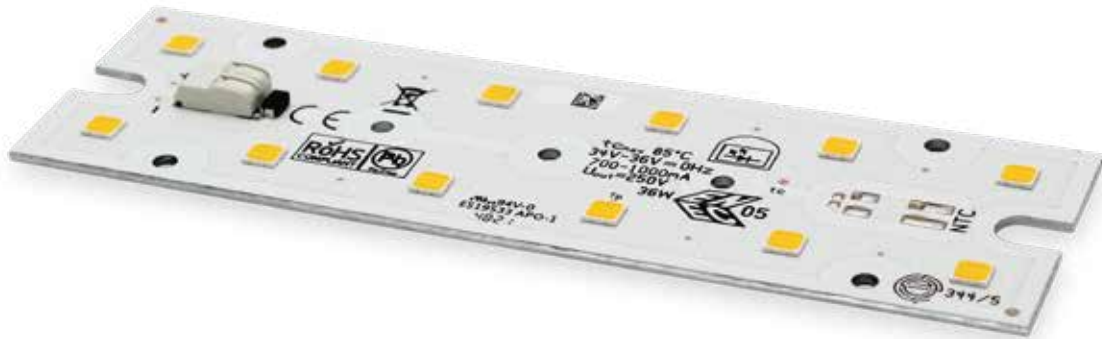
Part number	Beam angle
LL04CR-AU45135L46 (Type II-Short)	45° x 135°
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ95165L19 (Type II-Medium)	95° x 165°
LL04CR-BXJ65165L52 (Type IV-Medium)	65° x 165°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR165L52	165°
LL04LU-CXR2060L06	20° x 60°
LL04CR-DBJ2090L19	20° x 90°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-170X50	170x50	0,23	1,5	0,45	>6000	V0

LightMAX

2x6 power LED module | R0344



Features

- PCB dimension: 147x45mm;
- Up to 6250 lm;
- Up to 190 lm/W;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 6 LED boards in series;
- Connection type: Wago 4mm 2 pole;
- Lifetime > 100.000h @ 700mA<math><1050\text{mA}</math> L90B10;
- NTC available on request;
- Suitable for RED Relamping Kit;
- 3535 version available (code: R0168).

Applications



Street



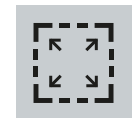
Industrial



Downlight



High Bay



Area

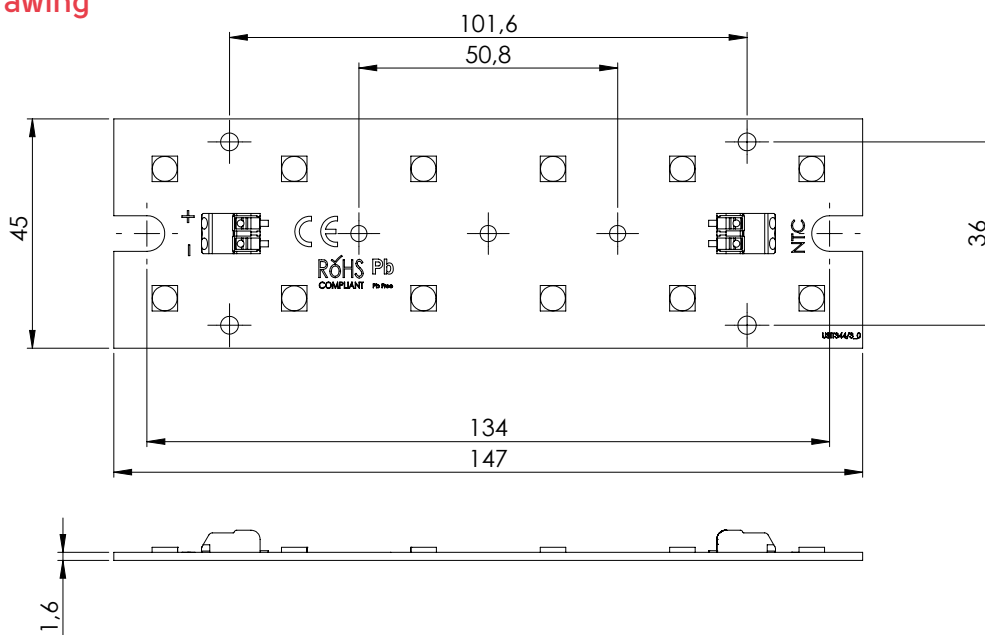
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0344012770	2700K	70	700	33,5	23,5	4150	175	C A↑G
			1000	34,7	34,7	5760	166	D A↑G
R0344013070	3000K		700	33,5	23,5	4300	182	C A↑G
			1000	34,7	34,7	5965	172	D A↑G
R0344014070	4000K		700	33,5	23,5	4470	190	C A↑G
			1000	34,7	34,5	6250	180	C A↑G
R0344015070	5000K		700	33,5	23,5	4470	190	C A↑G
			1000	34,7	34,5	6250	180	C A↑G



LightMAX

2x6 power LED module | R0344

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL12CR-CUQ30L19 + Gasket	30°
LL12CR-CUQ60L19 + Gasket	60°
LL12CR-CUQ90L19 + Gasket	90°
LL12CR-CUQ150L19 + Gasket	150°
LL12CR-CUQ60145L19 + Gasket (Type II-Short)	60° x 145°
LL12CR-CUQ70140L19 + Gasket (Type II-Short)	70° x 140°
LL12LU-CUQ15050L19 + Gasket (Type II-Short)	150° x 50°
LL12CR-CUQ85155L19 + Gasket (Type III-Medium)	85° x 155°
LL12CR-CUQ15155L19 + Gasket (Type IV-Short)	15° x 155°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-147X45	147X45	0,23	1,5	0,45	>6000	V0

Heat sink

Power supply

Dimension (LxWxH)	Material	Thermal wattage	Dimension (LxWxH)	Protection type	Output	Input
200x70x40mm	Anodized aluminium	70W	131x68x33,5mm (body) 158x68x33,5mm (endcaps included)	IP67 Class 2	<75W	90-305Vac

LightMAX

2x4 power LED module | R0485



Features

- PCB dimension: 120x50mm;
- Up to 5554 lm;
- Up to 189 lm/W, up to 205 lm/W @ 350mA;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 10 LED boards in series;
- Connection type: Wago 2060 series 1 pole;
- Lifetime > 100.000h @ 700mA<I<1050mA L90B10;
- NTC available on request (10k standard).

Applications



Street



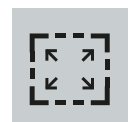
Industrial



Downlight



High Bay



Area

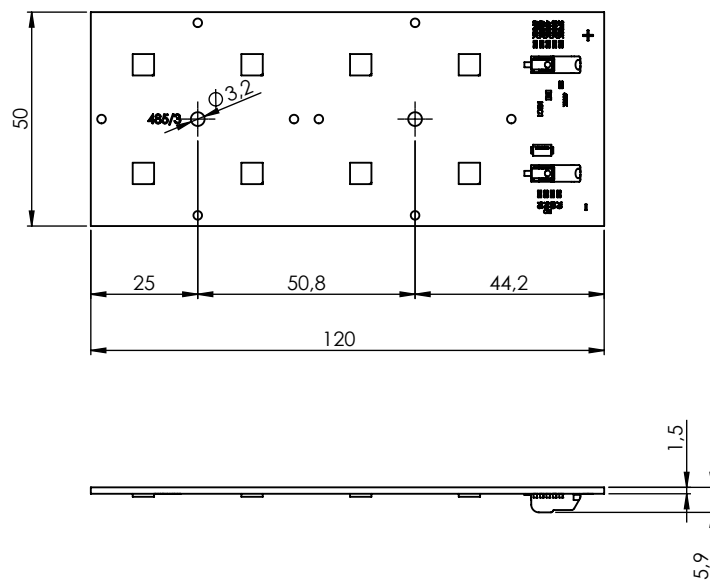
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0485012770	2700K	70	700	22.5	15.7	2767	176	C A↑G
			1000	23.1	23.1	3848	167	D A↑G
			1400	23.8	33.3	5184	156	D A↑G
R0485013070	3000K		700	22.5	15.7	2875	183	C A↑G
			1000	23.1	23.1	3993	173	D A↑G
			1400	23.8	33.3	5386	162	D A↑G
R0485014070	4000K		700	22.5	15.7	2965	189	C A↑G
			1000	23.1	23.1	4118	178	C A↑G
			1400	23.8	33.3	5554	167	D A↑G
R04850115070	5000K		700	22.5	15.7	2965	189	C A↑G
			1000	23.1	23.1	4118	178	C A↑G
			1400	23.8	33.3	5554	167	D A↑G



LightMAX

2x4 power LED module | R0485

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL04CR-AU45135L46 (Type II-Short)	45° x 135°
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ95165L19 (Type II-Medium)	95° x 165°
LL04CR-BXJ65165L52 (Type IV-Medium)	65° x 165°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR165L52	165°
LL04LU-CXR2060L06	20° x 60°
LL04CR-DBJ2090L19	20° x 90°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-120X50	120X50	0,23	1,5	0,45	>6000	V0

LightMAX

2x2 power LED module | R0308



Features

- PCB dimension: 70x50mm;
- Up to 1836 lm;
- Up to 171 lm/W;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 20 LED boards in series;
- Connection type: S-Poke 4mm 2 poles;
- Lifetime >60000h @ 700mA.

Applications



Street



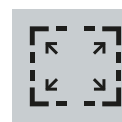
Industrial



Downlight



High Bay



Area

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0308002770	2700K	70	700	11,45	8	1300	162	D A ↑ G
			1050	11,95	12,55	1744	139	E A ↑ G
R0308003070	3000K		700	11,45	8	1300	162	D A ↑ G
			1050	11,95	12,55	1744	139	E A ↑ G
R0308004070	4000K		700	11,45	8	1368	171	D A ↑ G
			1050	11,95	12,55	1836	146	D A ↑ G
R0308005070	5000K		700	11,45	8	1368	171	D A ↑ G
			1050	11,95	12,55	1836	146	D A ↑ G



2x2 power LED module | R0308

Technical drawing showing the layout of four USIT308_0.2 valves arranged in a 2x2 grid. The drawing includes dimensions for the overall layout and individual components.

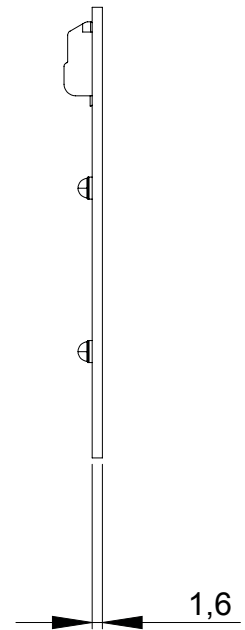
Overall Dimensions:

- Horizontal distance between valve centers: 70
- Vertical distance between valve centers: 25,4

Individual Valve Dimensions:

- Valve width: 9,8
- Valve height: 9,8
- Valve body width: 5,79
- Valve body height: 9,3
- Valve body depth: 6,7
- Valve body thickness: 9,8
- Valve body diameter: 12,7

Valve Label: USIT308_0.2



Part number	Beam angle
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CEC09L06	9°
LL04CR-CEC25L06	25°
LL04CR-CEC50L06	50°
LL04CR-CFN35155L02 (Type II-Medium)	35° x 155°
LL04CR-CFN60155L02 (Type III-Medium)	60° x 155°
LL04CR-CGM85135L02 (Type I-Short)	85° x 135°
LL04CR-CXE165L19 (Type V-Medium)	165°

LightMAX

2x2 power LED module | R0404



Features

- PCB dimension: 53x53mm;
- Up to 2777 lm;
- Up to 190 lm/W, up to 205 lm/W @ 350mA;
- CRI 70;
- CV version available on request;
- Max Electrical Insulation 300V;
- Max 20 LED boards in series in S2P2;
- Connection type: Wago 2060 2 Pole;
- Lifetime > 100.000h @ 700mA<I<1050mA L90B10;
- CC Version – S4PI available on request.

Applications



Street



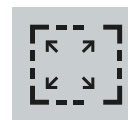
Industrial



Downlight



High Bay



Area

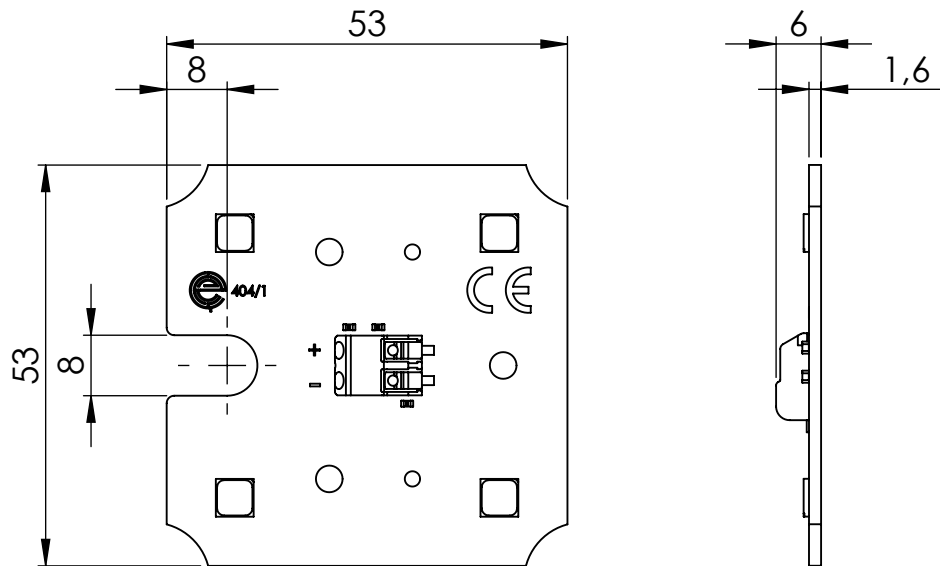
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0404002770	2700K	70	700	11,2	7,8	1384	177	C A ↑ G
			1000	11,5	11,5	1917	167	D A ↑ G
			1400	11,9	16,6	2592	156	D A ↑ G
R0404003070	3000K		700	11,2	7,8	1438	184	C A ↑ G
			1000	11,5	11,5	1991	173	C A ↑ G
			1400	11,9	16,6	2693	162	D A ↑ G
R0404004070	4000K		700	11,2	7,8	1482	190	C A ↑ G
			1000	11,5	11,5	2034	177	C A ↑ G
			1400	11,9	16,6	2777	167	D A ↑ G
R0404005070	5000K		700	11,2	7,8	1482	190	C A ↑ G
			1000	11,5	11,5	2034	177	C A ↑ G
			1400	11,9	16,6	2777	167	D A ↑ G



LightMAX

2x2 power LED module | R0404

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL04ZZ-WAU35140L52 + Gasket	35° x 140°
LL04ZZ-WAU25L52 + Gasket	25°
LL04ZZ-WAU60L52 + Gasket	60°
LL04ZZ-WAU90L52 + Gasket	90°
LL04ZZ-WAU150L52 + Gasket	150°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-53X53	53X53	0,23	1,5	0,45	>6000	V0

Heat sink

Power supply

Dimension (LxWxH)	Material	Thermal wattage	Dimension (LxWxH)	Protection type	Output	Input
66x65,5x40mm	Black anodized aluminum	20W	50x50x25mm	IP67 Optional surge protection	10-17Vdc 700mA	220-240VAC

LightMAX

2x2 power LED module | R0703



Features

- PCB dimension: 50x65mm;
- Up to 2167 lm;
- Up to 186 lm/W;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 20 LED boards in series;
- Connection type: Wago 2060 series 1 pole;
- Lifetime > 100.000h @ 700mA<math><1050\text{mA}</math> L90B10.

Applications



Street



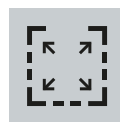
Industrial



Downlight



High Bay



Area

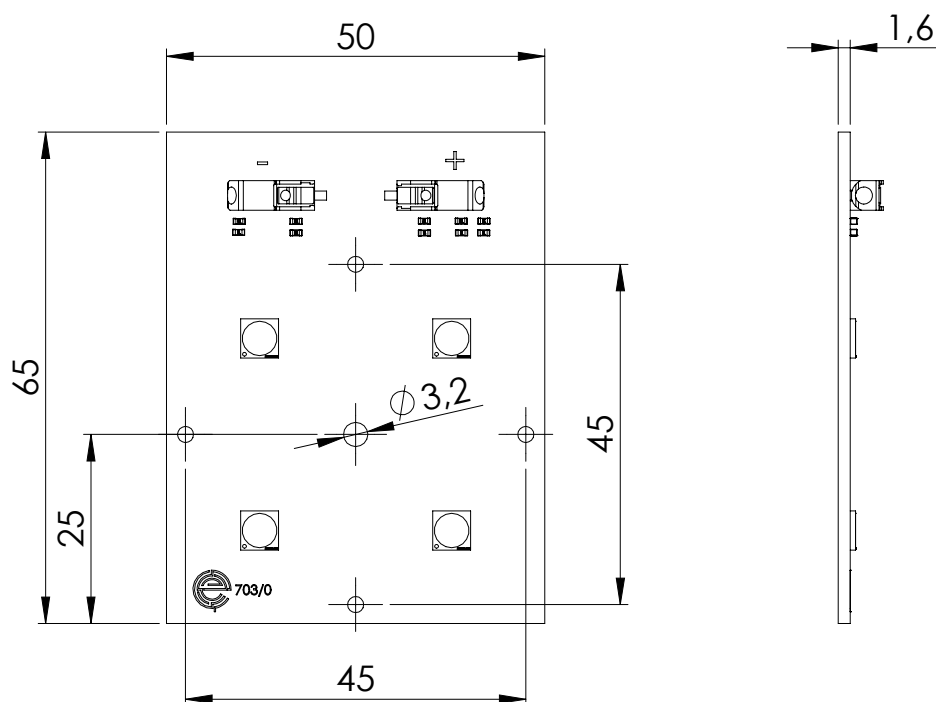
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0703012770	2700K	70	700	11	8	1399	167	C A↑G
			1000	12	12	1942	162	D A↑G
R0703013070	3000K		700	11	8	1444	172	C A↑G
			1000	12	12	2006	167	D A↑G
R0703014070	4000K		700	11	8	1560	186	C A↑G
			1000	12	12	2167	181	E A↑G
R0703015070	5000K		700	11	8	1554	185	C A↑G
			1000	12	12	2157	180	C A↑G



LightMAX

2x2 power LED module | R0703

Mechanical drawing



Accessories

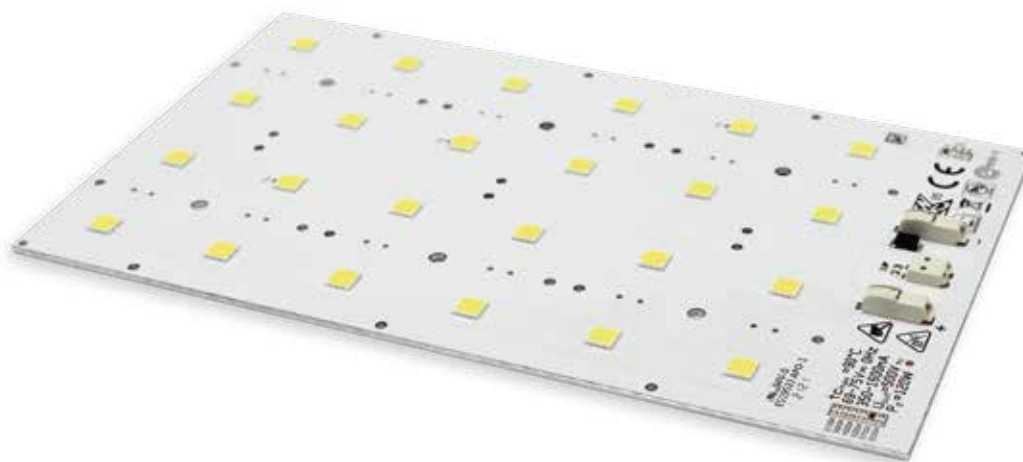


Lenses

Part number	Beam angle
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ95165L19 (Type II-Medium)	95° x 165°
LL04CR-BXJ65165L52 (Type IV-Medium)	65° x 165°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR165L52	165°
LL04LU-CXR2060L06	20° x 60°
LL04CR-DBJ2090L19	20° x 90°

LightMAX

Dual Zhaga 24 power LED module | R0839



Features

- PCB dimension: 172x100mm;
- Up to 13557 lm;
- Up to 204 lm/W;
- CRI 70;
- Max Electrical Insulation 500V;
- Max 6 LED boards in series;
- Connection type: Wago 2060 2060-451/998-404, Wago 2059-302/998-403 NTC;
- Lifetime > 100.000h @ 700mA<I<1050mA L90B10;
- NTC available on request.

Applications



Street



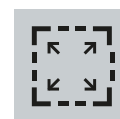
Industrial



Downlight



High Bay



Area

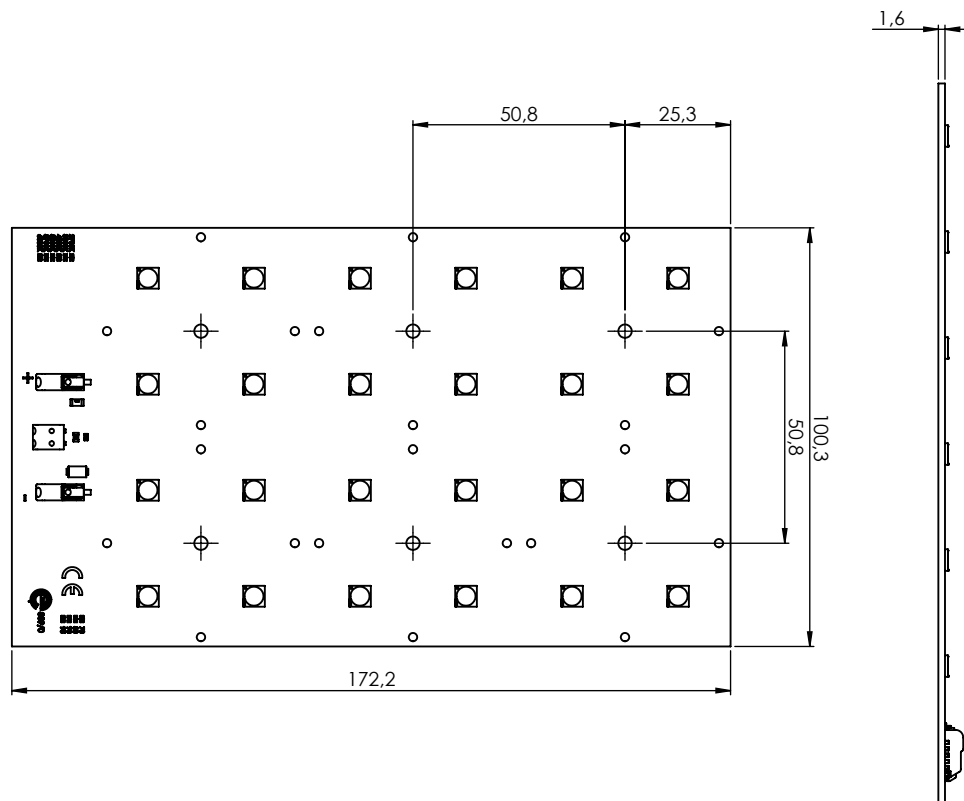
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0839013070	3000K	70	350	65,9	23	4706	204	B A++
			500	69,9	34,9	6250	179	C A++
			700	72	50,4	9475	188	C A++
			1000	74,9	74,9	13183	176	C A++
R0839014070	4000K		350	65,9	23	4706	204	B A++
			500	69,9	34,9	6250	179	C A++
			700	72	50,4	9375	186	C A++
			1000	74,9	74,9	13557	181	C A++
R0839015770	5700K		350	68,1	23,9	4782	200	B A++
			500	69,9	34,9	6492	186	C A++
			700	72	50,4	9123	181	C A++
			1000	74,9	74,9	12140	162	D A++



LightMAX

Dual Zhaga 24 power LED module | R0839

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ95165L19 (Type II-Medium)	95° x 165°
LL04CR-BXJ65165L52 (Type IV-Medium)	65° x 165°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR165L52	165°
LL04LU-CXR2060L06	20° x 60°
LL04CR-DBJ2090L19	20° x 90°

LightMAX

32 power LED module | R0349



Features

- PCB dimension: 164x151mm;
- Up to 16700 lm;
- Up to 188 lm/W;
- CRI 70;
- Max Electrical Insulation 250V;
- Max 2 LED boards in series;
- Connection type: S-Poke 4mm 2 pole;
- Lifetime > 100.000h @ 700mA<math><1050\text{mA}</math> L90B10.

Applications



Street



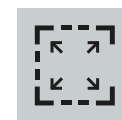
Industrial



Downlight



High Bay



Area

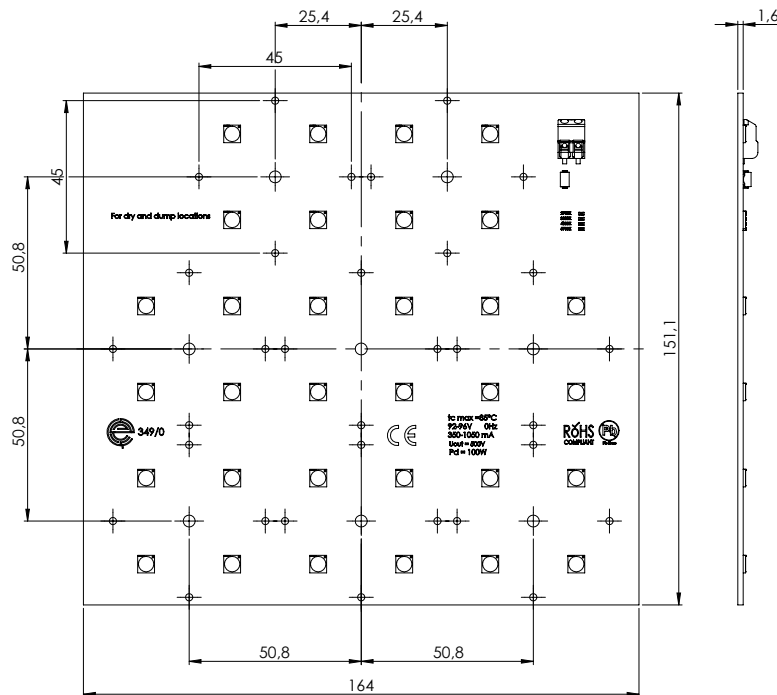
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0349012770	2700K	70	700	91,52	64,06	11097	173	C A ↑ G
			1000	94,72	94,72	15410	163	D A ↑ G
R0349013070	3000K		700	91,52	64,06	11467	179	C A ↑ G
			1000	94,72	94,72	15923	168	D A ↑ G
R0349014070	4000K		700	91,52	64,06	12022	188	C A ↑ G
			1000	94,72	94,72	16700	176	C A ↑ G
R0349015070	5000K		700	91,52	64,06	12022	188	C A ↑ G
			1000	94,72	94,72	16700	176	C A ↑ G



LightMAX

32 power LED module | R0349

Mechanical drawing



Accessories



Lenses

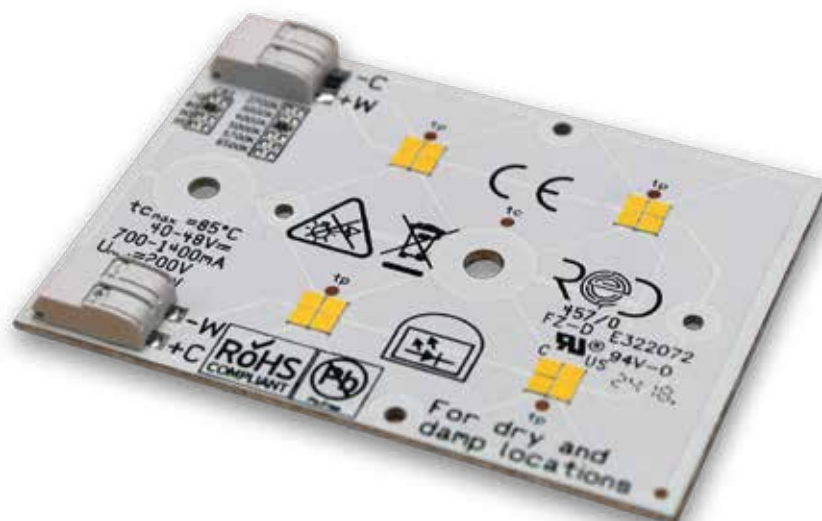
Part number	Beam angle
LL04CR-AU45135L46 (Type II-Short)	45° x 135°
LL04CR-BXJ80150L02 (Type II-Short)	80° x 150°
LL04CR-BXJ45155L02 (Type III-Short)	45° x 155°
LL04CR-BXJ95165L19 (Type II-Medium)	95° x 165°
LL04CR-BXJ95165Lxx (Type II-Medium)	95° x 165°
LL04CR-BXJ65165L52 (Type IV-Medium)	65° x 165°
LL04CR-BXJ60L02 (Type V-Short)	60°
LL04CR-BXJ90L02 (Type V-Short)	90°
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR60L52	165°
LL04LU-CXR2060L06	20° x 60°
LL04CR-DBJ2090L19	20° x 90°

Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-inch ² /W)	Breakdown voltage (Vac)	Flame rating (UL94)
IRE-PAD-164X151	164X151	0,23	1,5	0,45	>6000	V0

LightMAX

16 white power LED module, cluster 4 | R0457



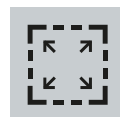
Features

- 16 DMC LEDs;
- 2x8 Tunable White version available on request;
- PCB dimension: 70x50mm;
- Up to 4600 lm;
- Up to 160 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 200V;
- Max 4 LED boards in series;
- Connection type: Wago 2060 series 2 pole;
- Lifetime >60000h @ 700mA.

Applications



Industrial



Area



Downlight



High Bay

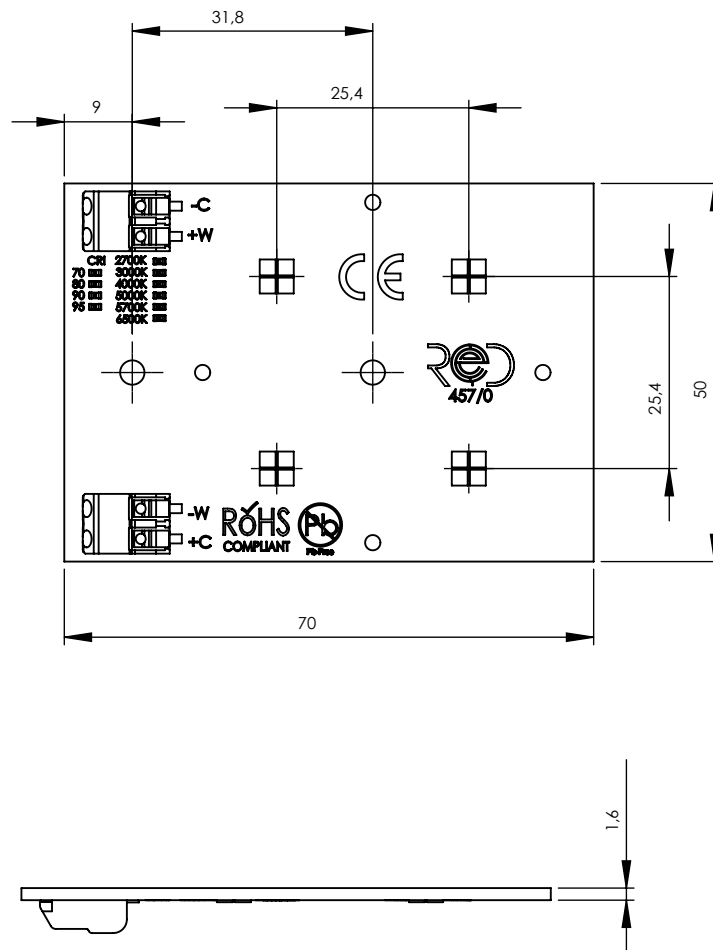
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R0457014080	4000K	80	350	47	16	2540	160	D A ↑ G
			700	48	33,6	4600	136	E A ↑ G



LightMAX

16 white power LED module, cluster 4 | R0457

Mechanical drawing



Accessories



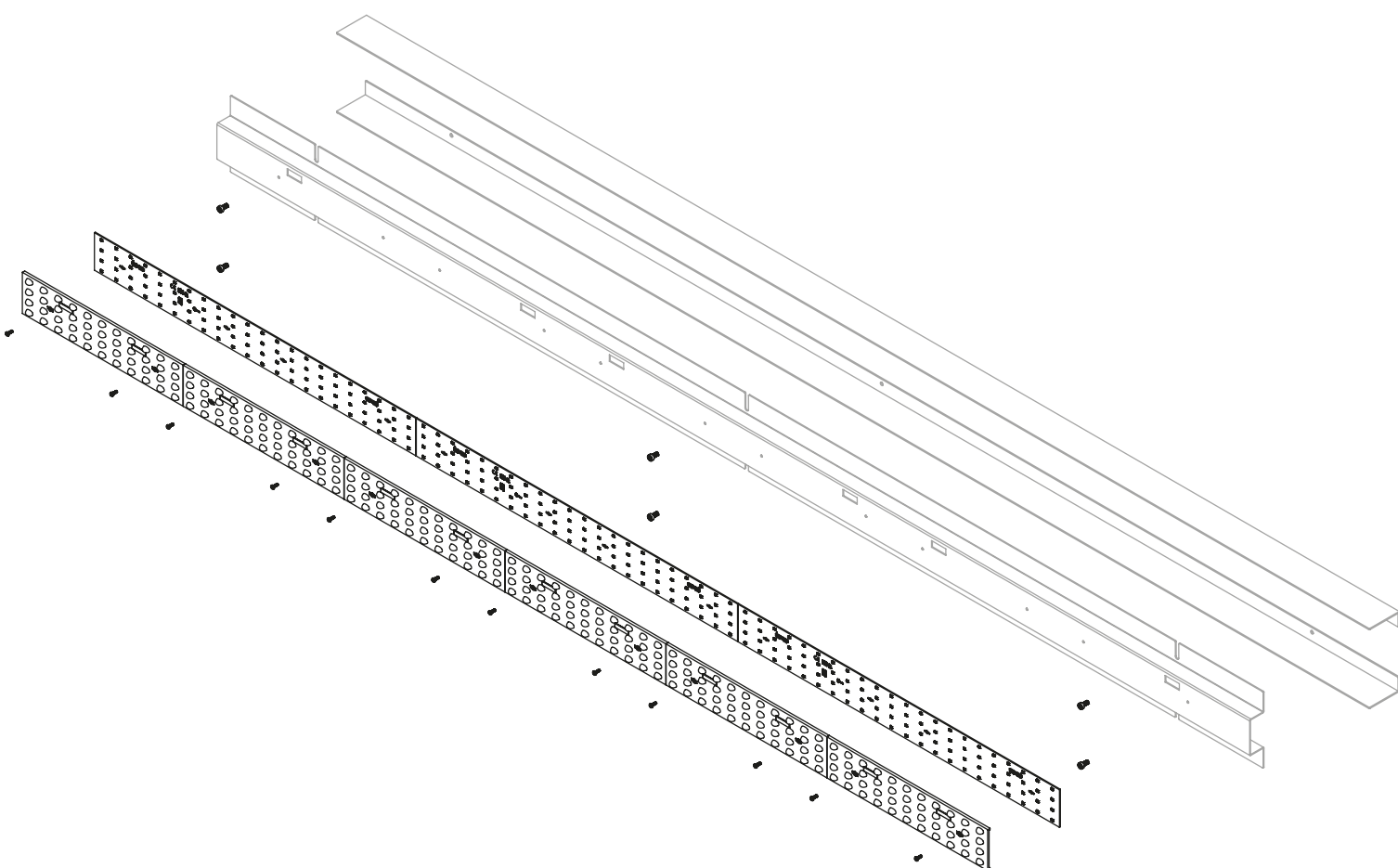
Lenses

Part number	Beam angle
LL04CR-CXR25L52	25°
LL04CR-CXR40L52	40°
LL04CR-CXR60L52	60°
LL04CR-CXR165L52	165°
LL04LU-CXR2060L06	20° x 60



LineMAX

Linear lighting solutions



LineMAX

280x24mm module, 32 LEDs | R1868



Features

- PCB dimension: 280x24mm;
- ZHAGA compliant dimension;
- Up to 1282 lm;
- Up to 193 lm/W;
- CRI 80;
- Max Electrical Insulation 150V;
- Max 6 LED boards in series;
- Connection type: AVX 70-9296;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial



Industrial

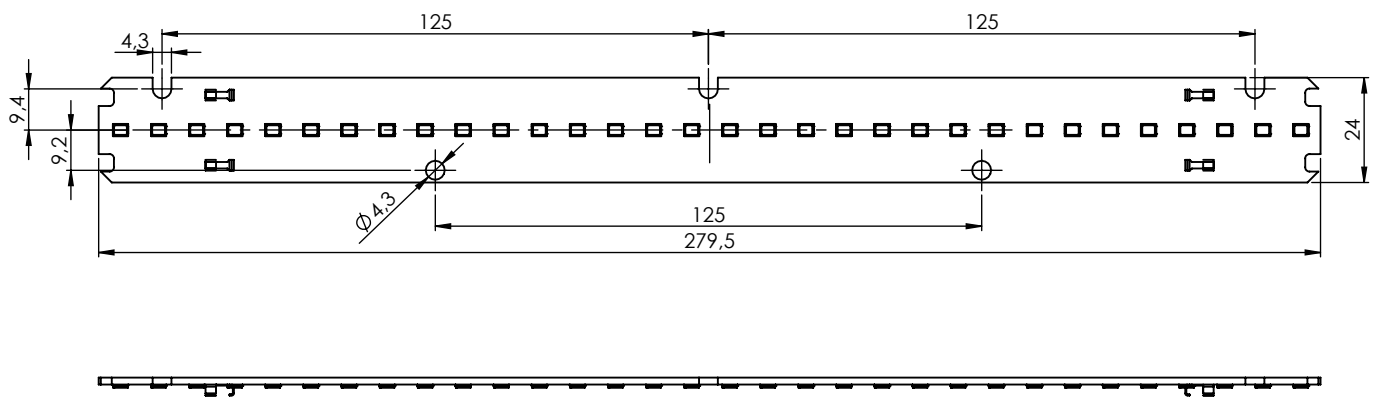
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1868213080	3000K	80	300	21,96	6,64	1203	181	
R1868214080	4000K		300	21,93	6,63	1282	193	



LineMAX

280x24mm module, 32 LEDs | R1868

Mechanical drawing



LineMAX

280x20mm module, 24 LEDs | R1999



Features

- PCB dimension: 280x24mm;
- ZHAGA compliant dimension;
- Up to 1945 lm (standard), up to 2053 lm (high efficiency);
- Up to 169 lm/W (standard), up to 184 lm/W (high efficiency);
- CRI 80, 90, 95;
- Max Electrical Insulation 250V;
- Max 10 LED boards in series;
- Connection type: Wago 2060 1 Way;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial

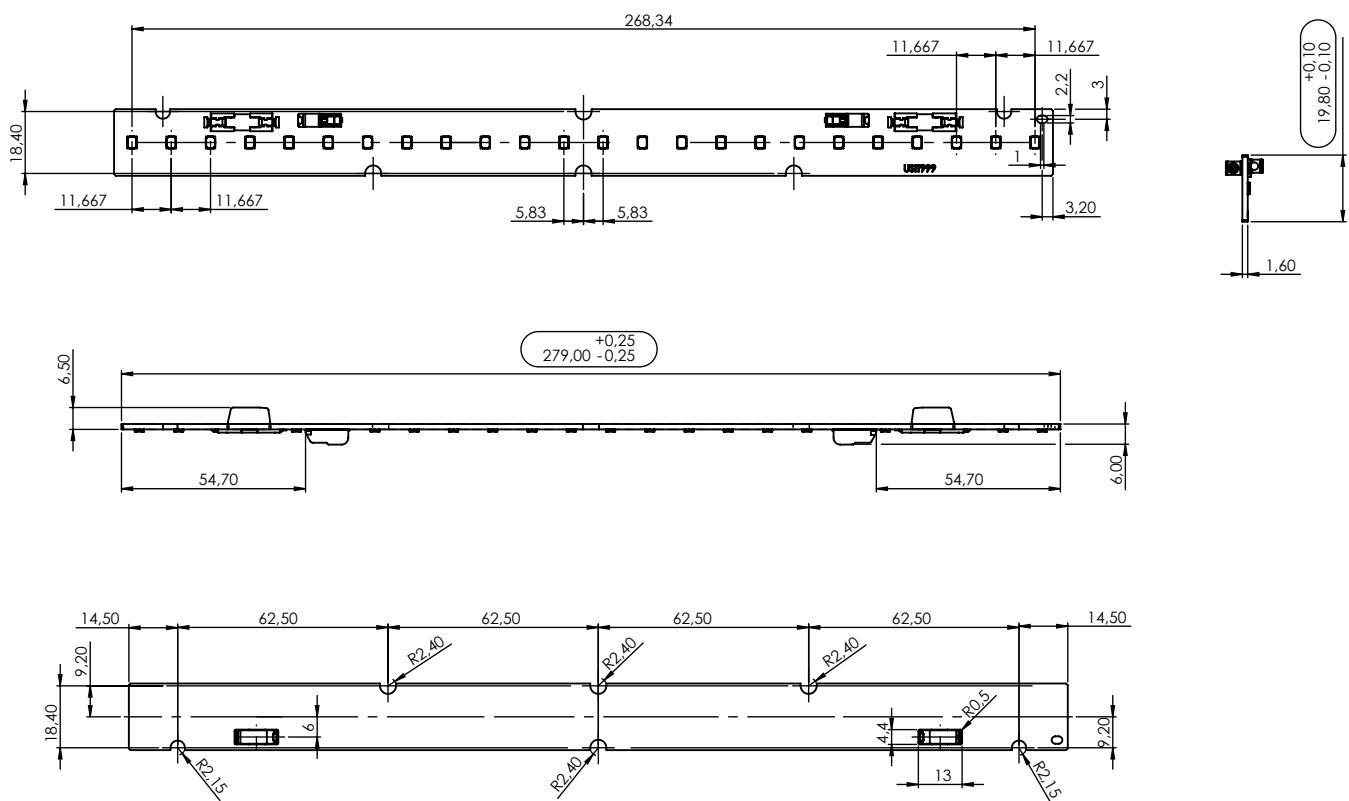
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1999113080100	3000K	80	350	23	8,1	1221	152	
			500	23,7	11,8	1650	140	
R1999114080100	4000K		350	23	8,1	1302	162	
			500	23,7	11,8	1765	150	
R1999115080100	5000K		350	23	8,1	1360	169	
			500	23,7	11,8	1945	165	



LineMAX

280x20mm module, 24 LEDs | R1999

Mechanical drawing



LineMAX

280x20mm module, 35 LEDs, 24Vdc | R1A16



Features

- PCB dimension: 280x20mm;
- ZHAGA compliant dimension;
- Up to 947 lm;
- Up to 152 lm/W;
- CRI 80;
- Max Electrical Insulation 150V;
- Max 5 LED boards in series;
- Connection type: Wago 2060 1 Pole and 2070 Reverse 1P;
- Long lifetime up to 72000h;
- CC version on request.

Applications



Office



Indoor



Commercial

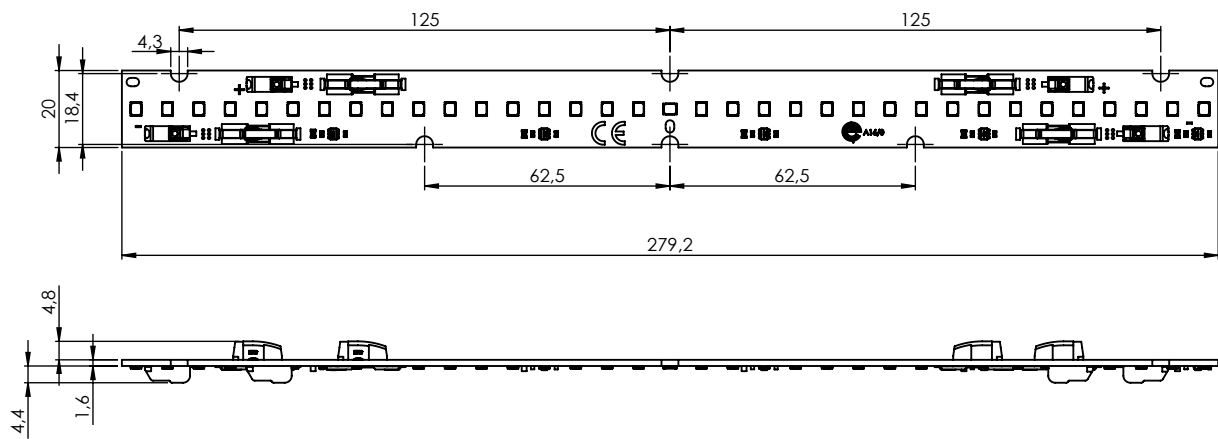
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1A16113080	3000K	80	260	24	6,2	882	143	
R1A16114080	4000K		260	24	6,2	947	152	



LineMAX

280x20mm module, 35 LEDs, 24Vdc | R1A16

Mechanical drawing



LineMAX

560x24mm linear module, 64 LEDs | R1718



Features

- PCB dimension: 560x24mm;
- ZHAGA compliant dimension;
- Up to 5837 lm;
- Up to 177 lm/W;
- CRI 80;
- Max Electrical Insulation 250V (400V with plastic screws);
- Max 4 LED boards in series (6pcs with plastic screws);
- Connection type: AVX Poke 2,5mm 70-9296;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial

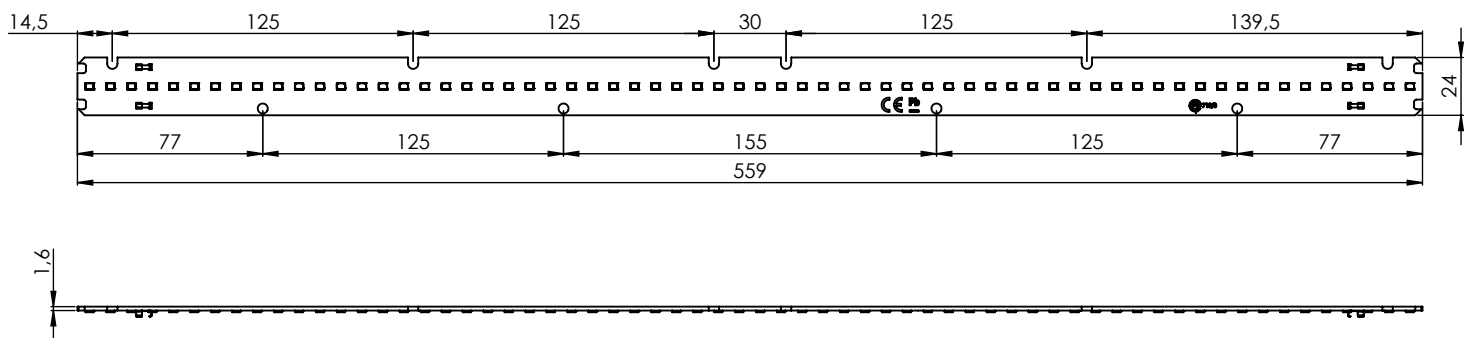
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R1718203080	3000K	80	500	48	24	4147	173	C A↑G	
			700	49,6	34,72	5530	159	D A↑G	
R1718204080	4000K		500	48	24	4256	177	C A↑G	
			700	49,6	34,72	5837	168	D A↑G	



LineMAX

560x24mm linear module, 64 LEDs | R1718

Mechanical drawing



LineMAX

560x20mm module, 72 LEDs | R1800



Features

- PCB dimension: 560x20mm;
- ZHAGA compliant dimension;
- Up to 6687 lm;
- Up to 194 lm/W;
- CRI 70, 80;
- Max Electrical Insulation 250V;
- Connection type: Adels low profile or Wago 0,2-0,75mm 1 pole and/or BJB46-121 Reverse;
- Long lifetime up to 72000h;
- 40 LEDs version available (code: R1910);
- 48 LEDs version available (code: R1996);
- 96 LEDs version available (code: R1791).

Applications



Office



Indoor



Commercial

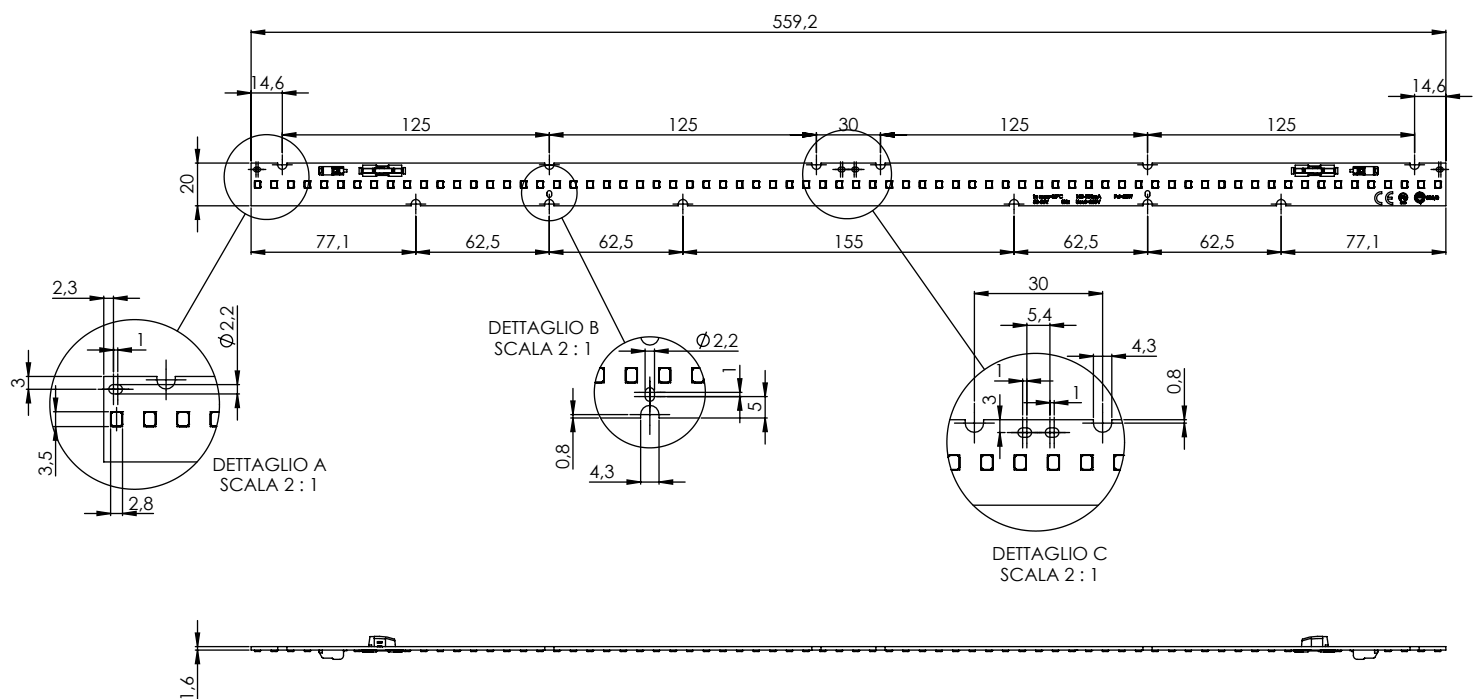
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R1800113080	3000K	80	350	49,2	17,22	3168	184		
			700	51,9	36,33	5760	159		
R1800114080	4000K		350	49,2	17,22	3329	193		
			700	51,9	36,33	6349	174		
R1800115080	5000K		350	49,2	17,22	3341	194		
			700	51,9	36,33	6687	184		



LineMAX

560x20mm module, 72 LEDs | R1800

Mechanical drawing



LineMAX

560x20mm module, 70 LEDs, 24Vdc | R1A15



Features

- PCB dimension: 560x20mm;
- ZHAGA compliant dimension;
- Up to 1855 lm;
- Up to 149 lm/W;
- CRI 80;
- Max Electrical Insulation 150V;
- Max 5 LED boards in series;
- Connection type: Wago 2060 1 P/ 2070 Reverse 1P
- Long lifetime up to 72000h;
- CC version on request.

Applications



Office



Indoor



Commercial

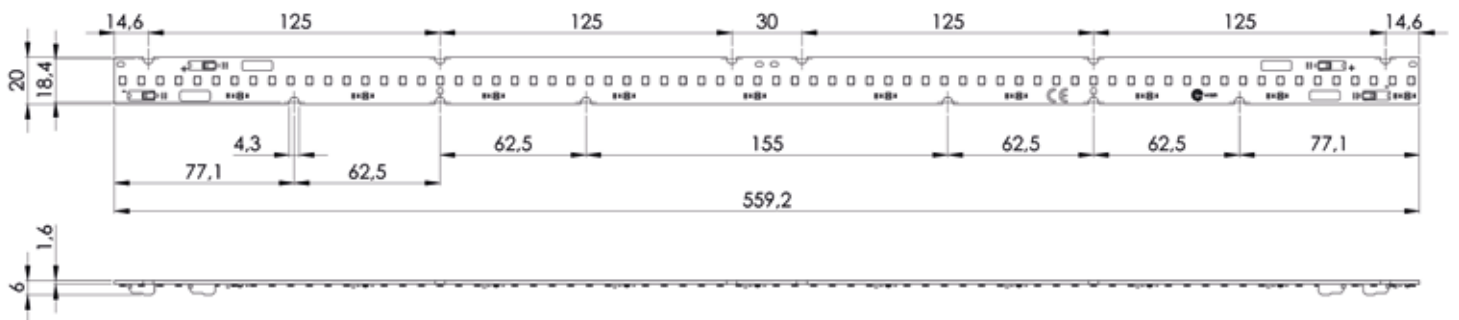
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1A15113080	3000K	80	500	24	12	1750	146	
R1A15114080	4000K		500	24	12	1855	149	



LineMAX

560x20mm module, 70 LEDs, 24Vdc | R1A15

Mechanical drawing



LineMAX

280x55mm module, 33 LEDs | R1452



Features

- PCB dimension: 280x55mm (566x55mm version available – code: R1453);
- ZHAGA compliant dimension;
- Up to 3010 lm;
- Up to 190 lm/W;
- CRI 80, 90, 95;
- Max Electrical Insulation 350V (750V available on request – code: R1318);
- Max 7 LED boards in series;
- Connection type: Wago 2060, BJB Reverse 46.121 series 1 pole;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial



Industrial

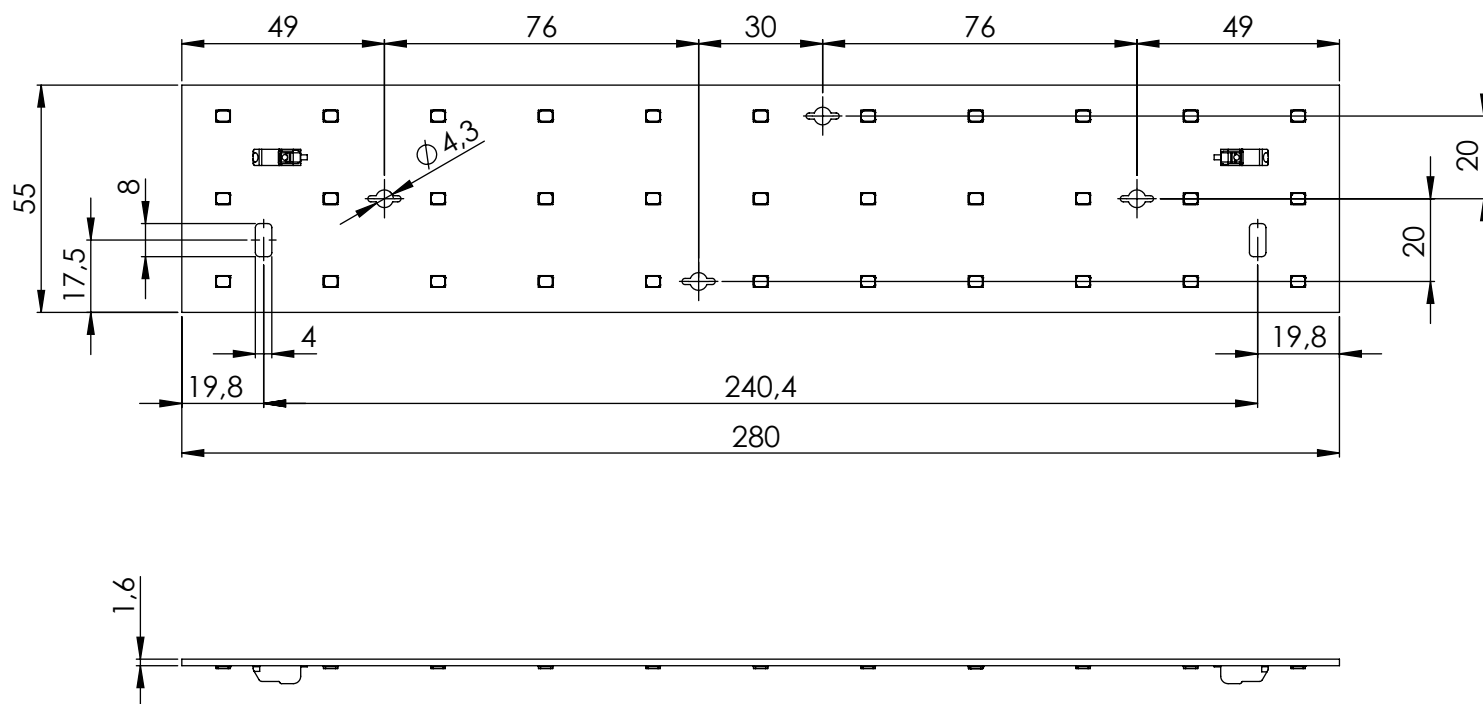
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1452213080	3000K	80	350	33	11,55	1964	170	
			500	35	17,5	2693	154	
R1452214080	4000K		350	33	11,55	2079	180	
			500	35	17,5	2851	163	
R1452215080	5000K		350	33	11,55	2195	190	
			500	35	17,5	3010	172	



LineMAX

280x55mm module, 33 LEDs | R1452

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL03ZZ-CRO100L06	100°
LL03ZZ-CRO3090L06	30° x 90°
LL03ZZ-CRO3595L06	35° x 95°
LL03ZZ-CRO6090L06	60° x 90°
LL03ZZ-CRO70125L06	70° x 125°

LineMAX

High performance 280x55mm module, 44 LEDs | R1369



Features

- PCB dimension: 280x55mm (560x55mm version available - code: R1395);
- ZHAGA compliant dimension;
- Up to 3010 lm;
- Up to 186 lm/W;
- CRI 80, 90, 95;
- Max Electrical Insulation 350V;
- Max 8 LED boards in series;
- Connection type: BJB Reverse 46.121 series 1 pole;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial



Industrial

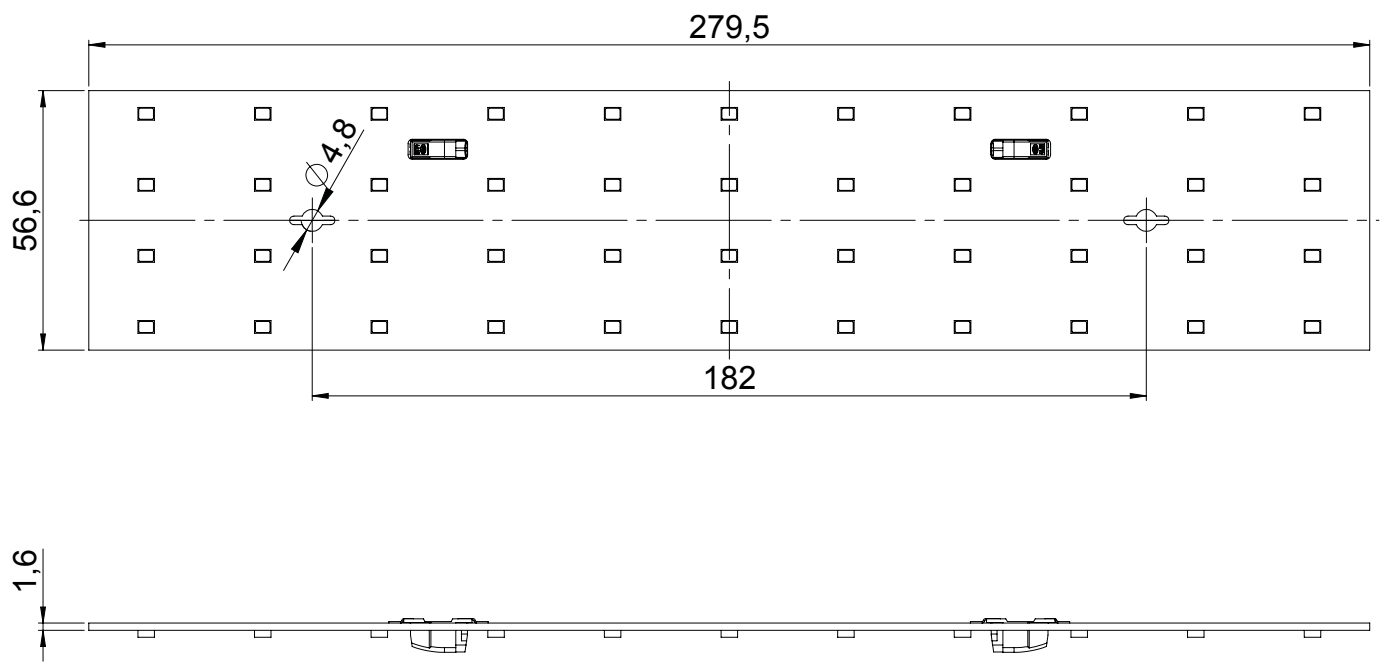
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1369213080	3000K	80	350	32,34	11,32	1900	168	
			500	33,34	16,72	2693	161	
R1369214080	4000K		350	32,34	11,32	2012	178	
			500	33,34	16,72	2851	171	
R1369215080	5000K		350	32,34	11,32	2123	186	
			500	33,34	16,72	3010	180	



LineMAX

High performance 280x55mm module, 44 LEDs | R1369

Mechanical drawing



Accessories



Lenses	
Part number	Beam angle
LL44ZZ-DCP30L52	30°
LL44ZZ-DCP60L52	60°
LL44ZZ-DCP90L52	90°
LL44ZZ-DCP20110L52	20° x 110° (Asymmetric)
LL44ZZ-DCP70120L52	70° x 120° (Double Asymmetric)

LineMAX

Hyper-efficient LED module, 280x55mm, 108 LEDs | R1813



Features

- PCB dimension: 280x55mm;
- ZHAGA compliant dimension;
- Up to 6821 lm;
- Up to 208 lm/W;
- CRI 80;
- Max 4 LED boards in series;
- Connection type: Wago 2060-451, Wago 2060-452, Wago reverse 2070-461;
- Long lifetime up to 72000h;
- Suitable for CRO lens by Ledlink Optics.

Applications



Office



Indoor



Commercial

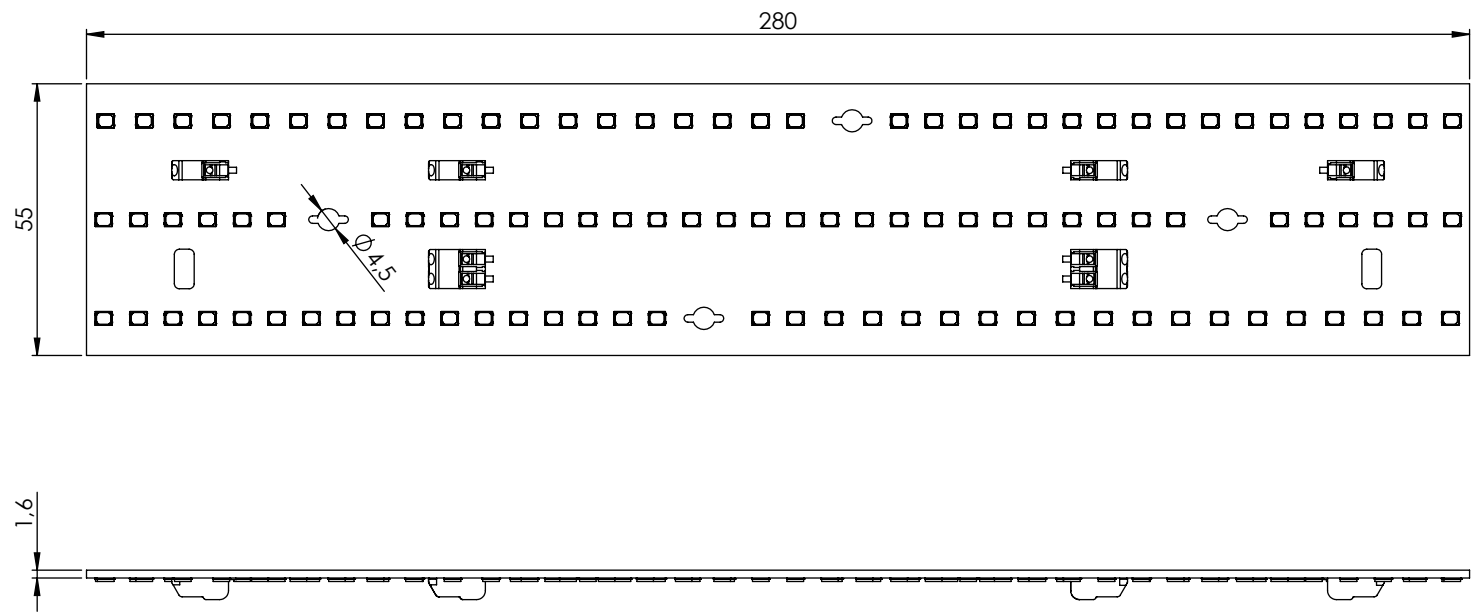
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1813113080	3000K	80	500	32,8	16,4	3255	199	
			700	33	23,1	4377	190	
			1050	33,7	35,4	6544	185	
R1813114080	4000K		500	32,7	16,35	3400	208	
			700	33	23,1	4562	198	
			1050	33,7	35,4	6821	193	



LineMAX

Hyper-efficient LED module, 280x55mm, 108 LEDs | R1813

Mechanical drawing



Accessories



Lenses	
Part number	Beam angle
LL03ZZ-CRO100L06	100°
LL03ZZ-CRO3090L06	30° x 90°
LL03ZZ-CRO3595L06	35° x 95°
LL03ZZ-CRO6090L06	60° x 90°
LL03ZZ-CRO701250L06	70° x 125°

LineMAX

1138x55mm module, 132 LEDs | R1357



Features

- PCB dimension: 1138x55mm;
- ZHAGA compliant dimension;
- Up to 12040 lm;
- Up to 190 lm/W;
- CRI 80, 90, 95;
- Max Electrical Insulation 350V;
- Connection type: Wago 2060, BJB Reverse 46.111 series 1 pole;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial

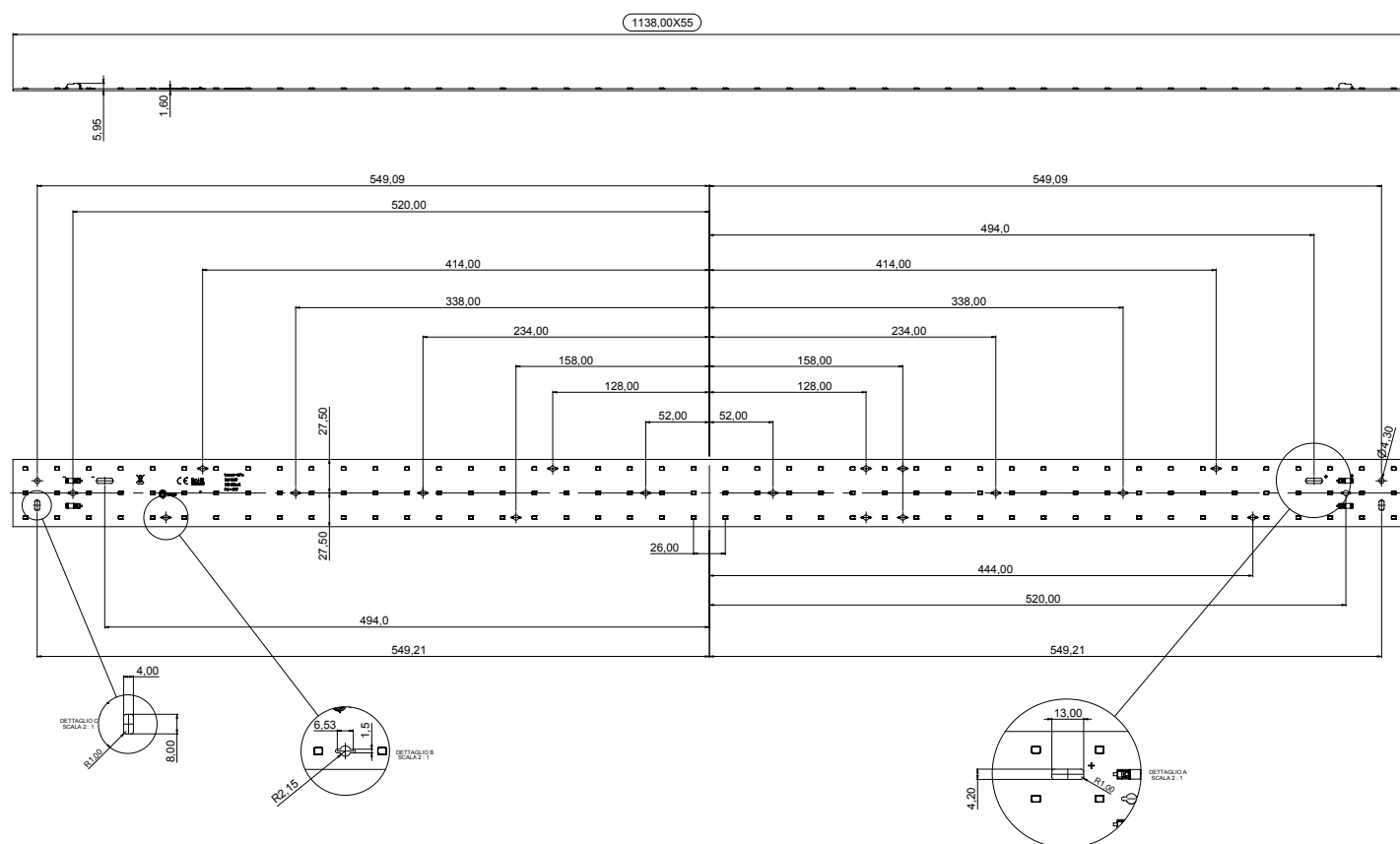
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R1357113080	3000K	80	350	132	46,2	7856	170		
			500	140	70	10772	154		
R1357114080	4000K		350	132	46,2	8316	180		
			500	140	70	11404	163		
R1357115080	5000K		350	132	46,2	8780	190		
			500	140	70	12040	172		



LineMAX

1138x55mm module, 132 LEDs | R1357

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL03ZZ-CRO100L06	100°
LL03ZZ-CRO3090L06	30° x 90°
LL03ZZ-CRO3595L06	35° x 95°
LL03ZZ-CRO6090L06	60° x 90°
LL03ZZ-CRO70125L06	70° x 125°

LineMAX

400x10mm module, 56 LEDs, 24Vdc | R1494



Features

- PCB dimension: 400x10mm;
- Up to 2619 lm;
- Up to 156 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 60V;
- Max 2 LED boards in series;
- Connection type: BTB AVX 70-9159;
- Long lifetime up to 72000h;
- Available in Meat, Fish, Vegetable and Bread version;
- Cutting area every 50mm / 7 LEDs.

Applications



Indoor



Commercial

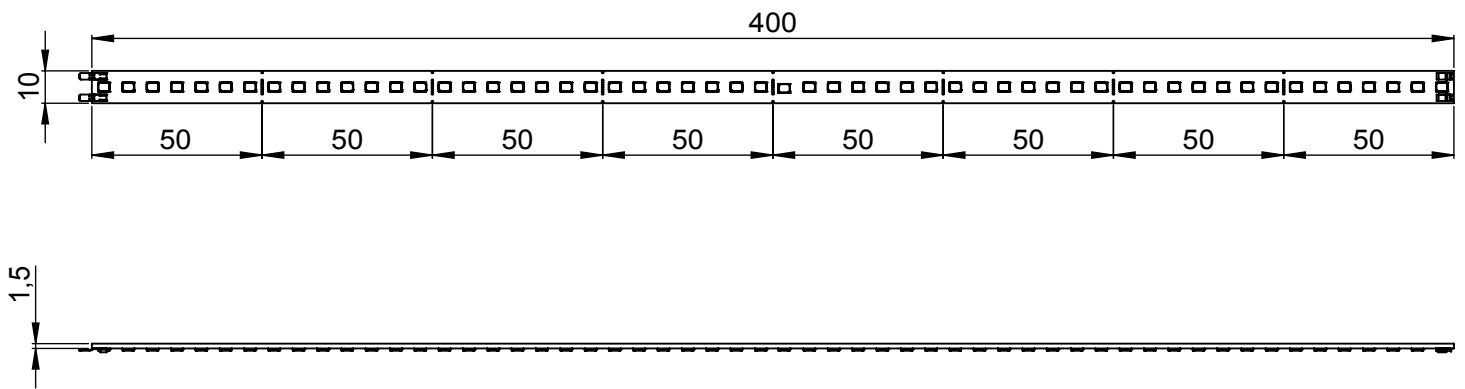
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1494I12780	2700K	80	700	24	16,8	2420	144	
R1494I13080	3000K					2456	146	
R1494I14080	4000K					2619	156	
R1494I1REME	R.Meat	NA				1258	75	N/A
R1494MEME	M.Meat					1218	73	N/A
R1494FISH	Fish					2030	121	N/A
R1494BREA	Bread					1908	114	N/A
R1494PROD	Vegetable					2100	125	N/A



LineMAX

400x10mm module, 56 LEDs, 24Vdc | R1494

Mechanical drawing



LineMAX

500x11mm Tunable White module, 56+56 LEDs, 24Vdc | R1439



Features

- PCB dimension: 500x11mm;
- Up to 1135 lm;
- Up to 123 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 60V;
- Max 9 LED boards in series;
- Connection type: cable;
- Long lifetime up to 72000h.

Applications



Office



Indoor



Commercial

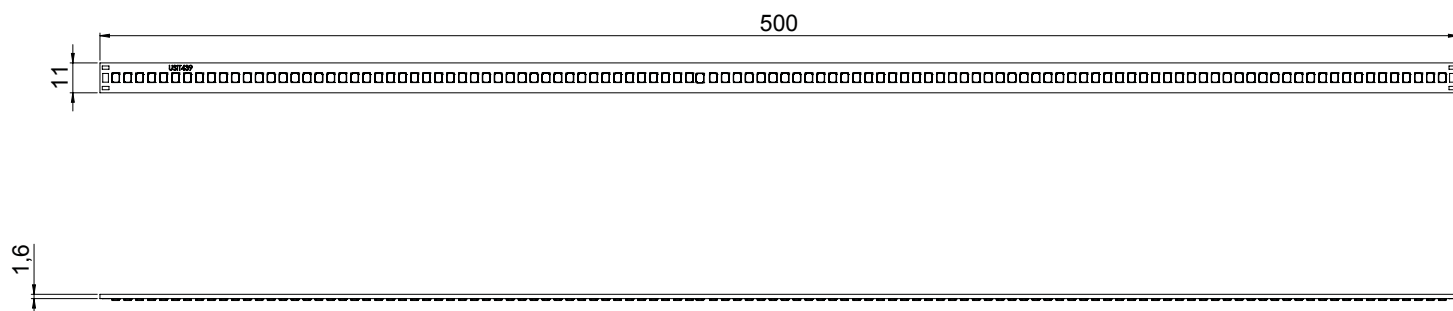
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R143911WWCW	2700K	80	200	24	4,8	588	123	
	5000K		200		4,8	547	114	
	2700K+5000K		400		9,6	1135	118	



LineMAX

500x11mm Tunable White module, 56+56 LEDs, 24Vdc | R1439

Mechanical drawing



LineMAX

560x14mm Tunable White module, 40+40 LEDs | R1679



Features

- PCB dimension: 560x14mm;
- Up to 852 lm;
- Up to 157 lm/W;
- CRI 80;
- Max Electrical Insulation 150V;
- Max 12 LED boards in series;
- Connection type: Wago 2060 1 pole;
- Lifetime >60000h @ 150mA T_p85°C;
- Suitable for BJB 14mm LED System (31.930).

Applications



Office



Indoor



Commercial

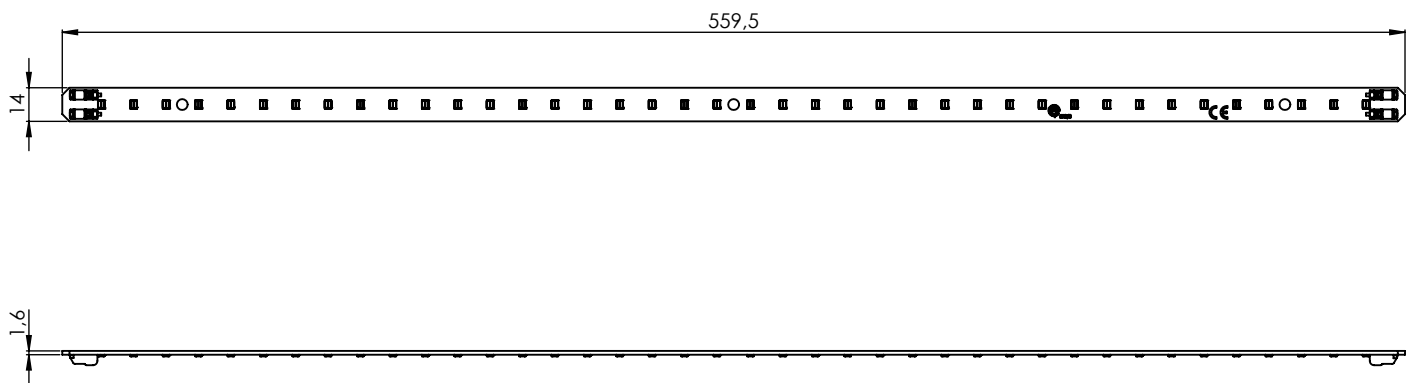
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R167911WWCW	2700K	80	350	11,1	3,9	556	143	E A ↑ G
			500	11,4	5,7	771	135	E A ↑ G
	6500K		350	11,1	3,9	612	157	D A ↑ G
			500	11,4	5,7	852	149	D A ↑ G



LineMAX

560x14mm Tunable White module, 40+40 LEDs | R1679

Mechanical drawing



LineMAX

Dimmable 480x25mm module, 6 power LEDs, 24Vdc | R1386



Features

- PCB dimension: 480x25mm;
- Up to 3384 lm;
- Up to 134 lm/W;
- CRI 70;
- Max Electrical Insulation 60V;
- Max 2 LED boards in parallel;
- Connection type: Molex S-Poke 4mm 1 pole;
- Long lifetime up to 72000h;
- 350mA 500mA 560mA 700mA LED Current Configurable.

Applications



Office



Indoor



Commercial

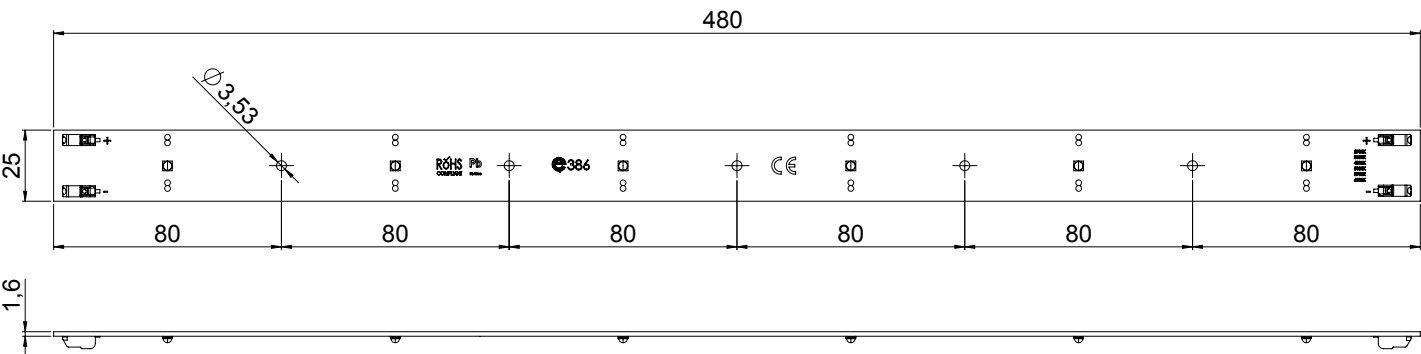
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1386104080	4000K	70	700	24	16,8	2028	120	E A T G
			1050		25,2	3042	120	E A T G
R1386105080	5000K		700		16,8	2256	124	E A T G
			1050		25,2	3384	134	E A T G



LineMAX

Dimmable 480x25mm module, 6 power LEDs, 24Vdc | R1386

Mechanical drawing



Accessories



Lenses	
Part number	Beam angle
LL01CR-CAX1090L06	10° x 90°
LL01CR-CAX2590L06	25° x 90°
LL01CR-CAX3585L02	35° x 85°

LineMAX

Dimmable 890x40mm module, 15 power LEDs, 48Vdc | R1629



Features

- PCB dimension: 890x40mm;
- Up to 6000 lm;
- Up to 145 lm/W;
- CRI 80;
- Max Electrical Insulation 60V;
- Connection type: Power Jack 2,35mm;
- Long lifetime up to 72000h;
- Driver 60V 1,5A on board.

Applications



Office



Indoor



Commercial

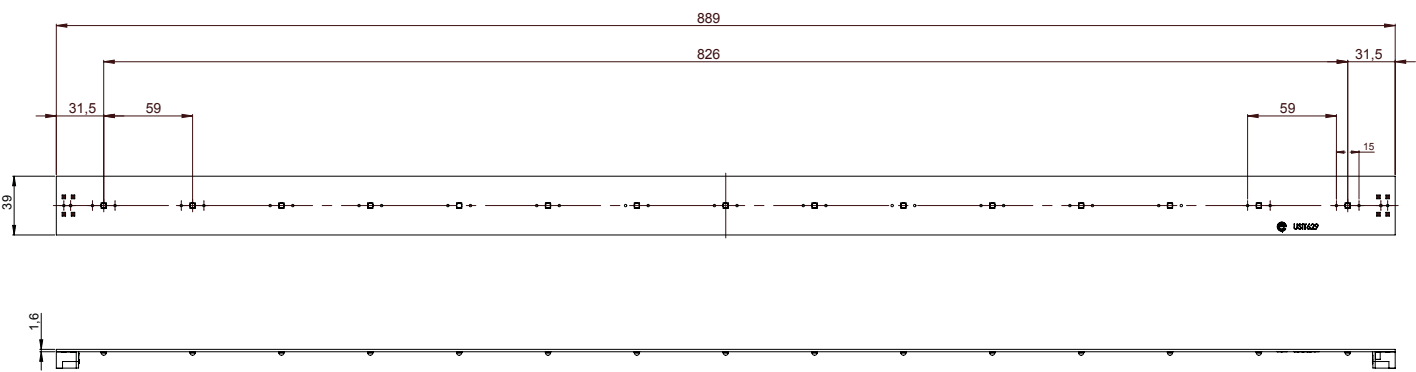
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1629016580	6500K	80	350	48	16,8	2400	143	
			700		33,6	4560	135	
			1000		48	6000	125	



LineMAX

Dimmable 890x40mm module, 15 power LEDs, 48Vdc | R1629

Mechanical drawing



Accessories



Lenses	
Part number	Beam angle
LL01CR-CRI1055L02-M2	10° x 55°
LL01ZZ-EX10L06-Mx	10°
LL01ZZ-EX15L06-Mx	15°
LL01ZZ-EX25L06-Mx	25°
LL01ZZ-EX40L06-Mx	40°
LL01ZZ-EX60L06-Mx	60°
LL01ZZ-EX110L06-Mx	110°
LL01ZZ-EX3065L06-Mx	30° x 65°
LL01ZZ-EX3085L06-Mx	30° x 85°

LineMAX

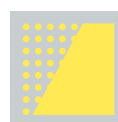
433x18mm module, 6 LEDs for backlighting | R1505



Features

- New version with 6060 LEDs and 160° batwing optics;
- PCB dimension: 433x18mm;
- Up to 500 lm;
- Up to 100 lm/W;
- CRI 80, 90;
- All CCT available on request;
- Max Electrical Insulation 250Vdc;
- Connection type: Wago 2060 series or AVX IDC contact;
- Max 10 LED boards in parallel with 2060 connectors, no limits with AVX connectors;
- Long lifetime up to 72000h.

Applications



Backlight

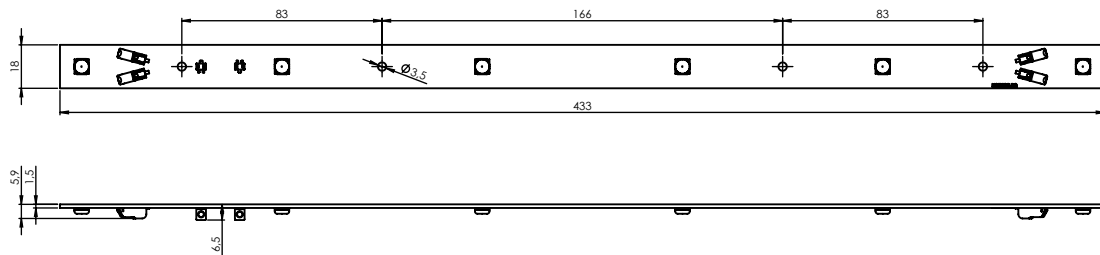
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1505114080	4000K	80	210	24	5	500	100	
R1505116580	6500K		210		5	500	100	
R1505114090	4000K	90	210		5	420	84	
R1505116590	6500K		210		5	420	84	



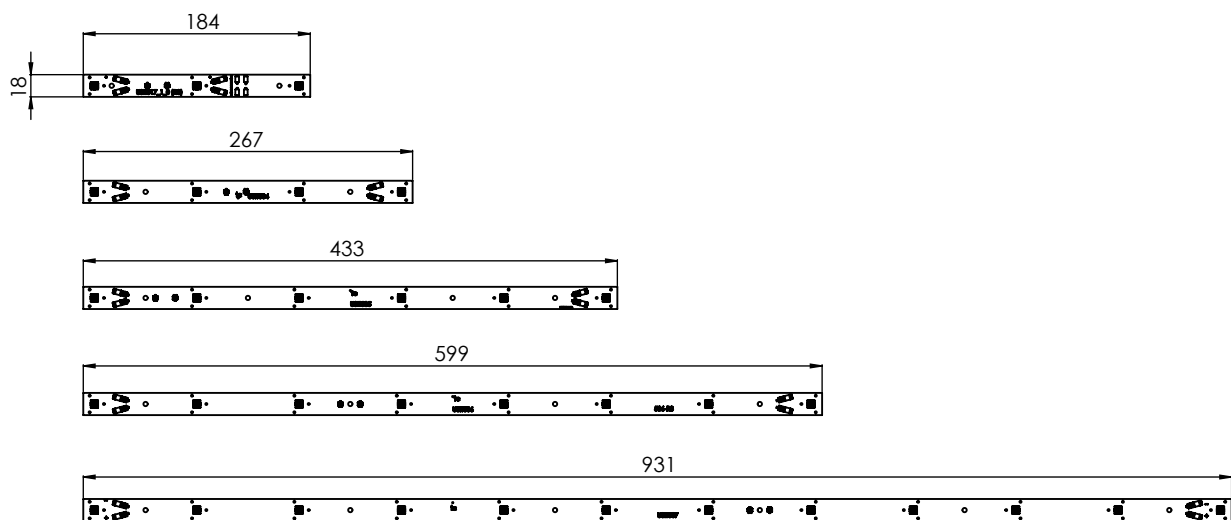
LineMAX

433x18mm module, 6 LEDs for backlighting | R1505

Mechanical drawing

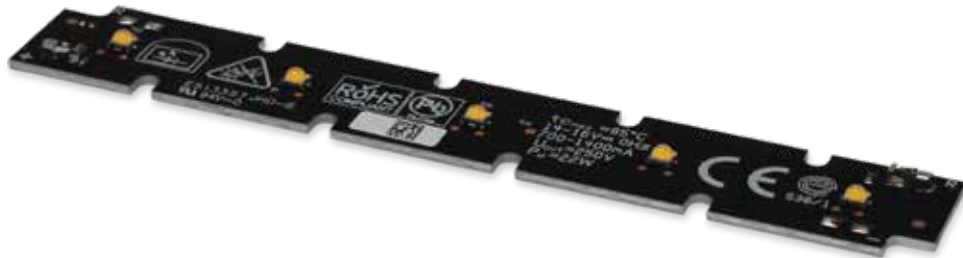


Backlight series - Drawings



LineMAX

131x20mm module, 5 power LEDs for dark light | R1536



Features

- PCB dimension: 131x20mm;
- Up to 2210 lm;
- Up to 147 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250Vdc;
- Max 14 LED boards in series;
- Connection type: AVX Poke 70-9296;
- Long lifetime up to 72000h;
- Suitable for dark light applications;
- 1 power LED version available (R3757).

Applications



Office



Indoor



Commercial

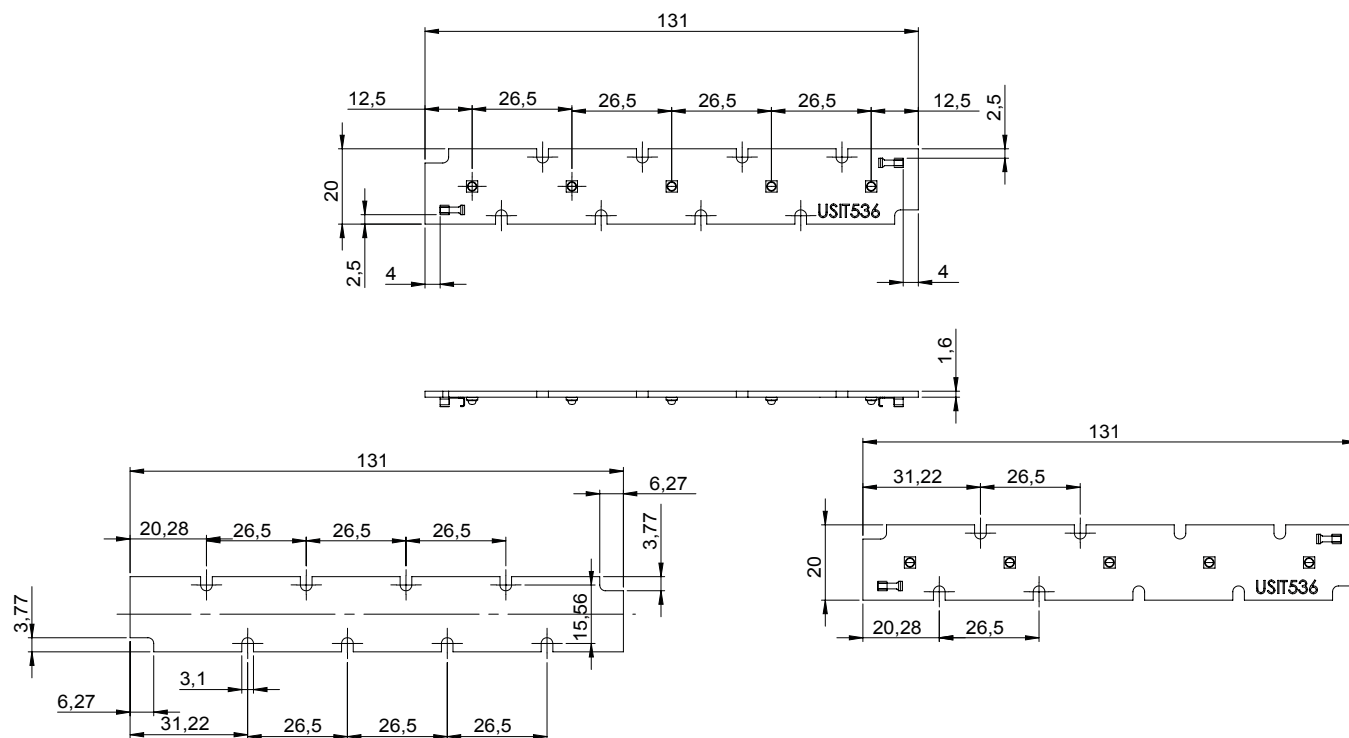
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1536003080	3000K	80	700	14	9,5	1400	147	D A↑G
			1050	14,4	15,1	2130	140	E A↑G
R1536004080	4000K		700	14	9,5	1500	143	D A↑G
			1050	14,4	15,1	2210	146	D A↑G
R1536003090	3000K	90	700	14	9,5	1270	134	E A↑G
			1050	14,4	15,1	1900	126	E A↑G
R1536004090	4000K		700	14	9,5	1350	142	E A↑G
			1050	14,4	15,1	1980	131	E A↑G



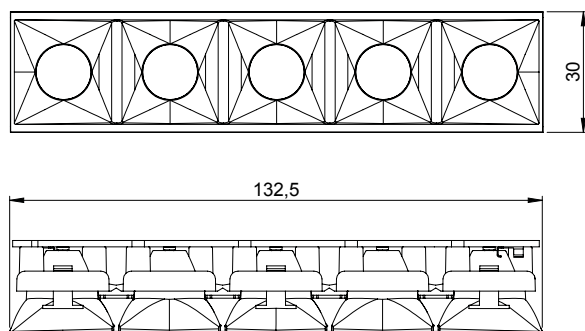
LineMAX

131x20mm module, 5 power LEDs for dark light | R1536

Mechanical drawing



Accessories



Reflector

XTD-3015-5H1	15°
XTD-3030-5H1	30°
XTD-3045-5H1	45°

Diffuser

LLGXTD30-JP3H5	Stripe diffuser
LLGXTD30-JP4H5	Matt diffuser
LLGXTD30-JPIH5	Clear diffuser
LLGXTD30-JP2H5	Square diffuser

Shade

LLGXTD-30H5-01	Shiny Black
LLGXTD-30H5-02	Shiny White
LLGXTD-30H5-03	Matt Black

LineMAX

131x14mm module, 5 LEDs, asymmetrical beam for wall washer | R1812



Features

- PCB dimension: 131x14mm;
- Up to 1285 lm;
- Up to 141 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 200V;
- Max 2 LED boards in series;
- Connection type: AVX Poke 70-9296;
- Long lifetime up to 72000h;
- Suitable for wall washer applications.

Applications



Indoor



Commercial



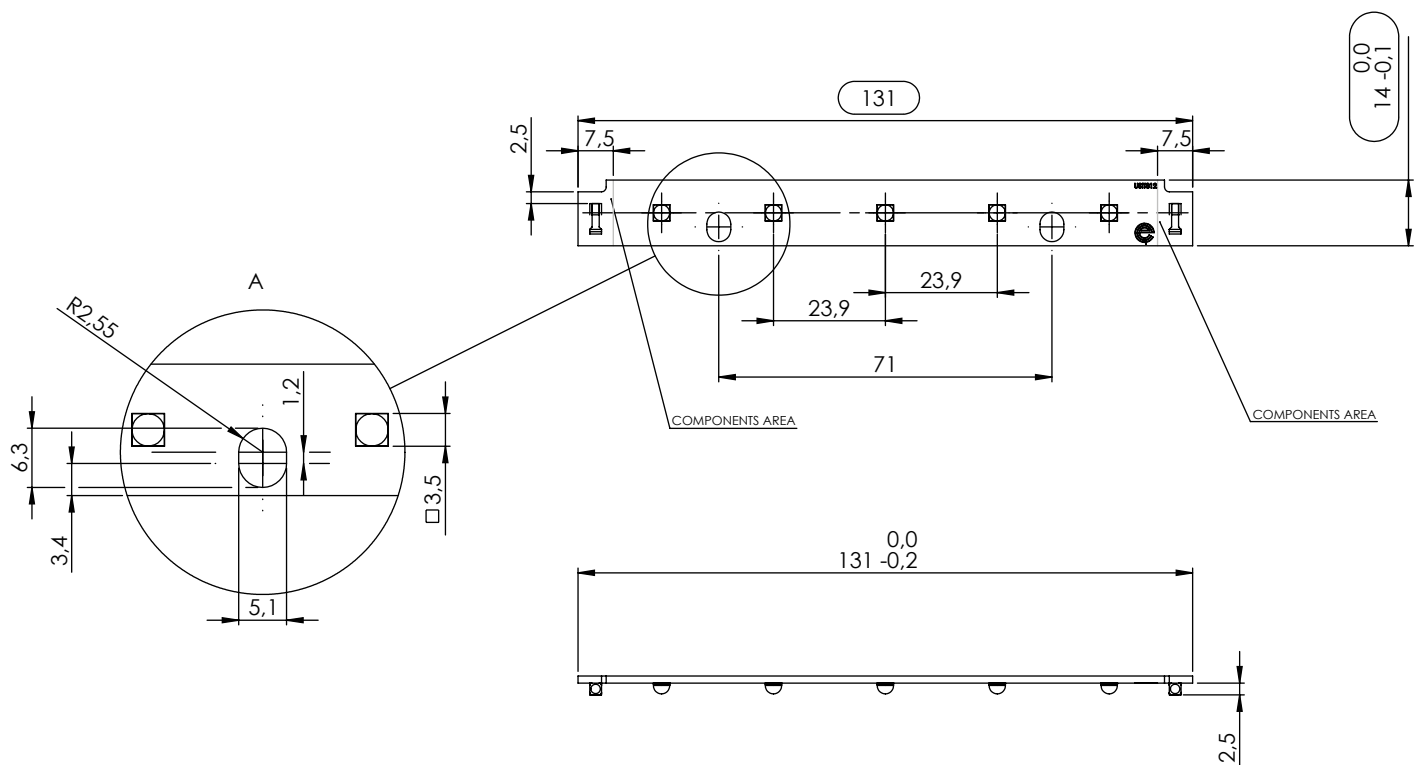
Wall Washer

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1812002790	2700K	90	350	14,1	4,93	560	114	F A↑G
			500	14,3	7,21	776	108	F A↑G
			700	14,8	10,4	1038	102	F A↑G
R1812003090	3000K		350	14,1	4,93	614	125	E A↑G
			500	14,3	7,21	850	118	E A↑G
			700	14,8	10,4	1137	110	F A↑G
R1812004090	4000K		350	14,1	4,93	641	130	E A↑G
			500	14,3	7,21	887	123	E A↑G
			700	14,8	10,4	1186	114	F A↑G
R1812005090	5000K		350	14,1	4,93	694	141	E A↑G
			500	14,3	7,21	961	133	E A↑G
			700	14,8	10,4	1285	124	E A↑G

LineMAX

131x14mm module, 5 LEDs, asymmetrical beam for wall washer | R1812

Mechanical drawing



Accessories



Shade

LLGXTD30-PTOP1

Black (Other colors on request)

Diffuser

LLG-XTD-30-P-JP

Microstructural diffuser + Light chopper

Reflector

LLG-XTD-30-P-R

Asymmetrical wall washer

Material

PC

110°C

LineMAX

280x20mm W/TW module for Daisy-Mini lens | R1729 + R1A76 + R1A19



Features

- PCB dimension: 280x20mm;
- Different options available:
 - TW 2700+5700K (code: R1729)
 - 14 White LEDs (code: R1A76)
 - 28 White LEDs (code: R1A19)
- Up to 1770 lm;
- Up to 166 lm/W;
- CRI 80, 90, 98;
- Max Electrical Insulation 150V;
- Connection type:
 - Wago 2065 (R1A76 – R1A19)
 - Wago 2059 (R1729)
- Long lifetime up to 72000h;
- Available in White 24V low voltage version.

Applications



Office



Indoor



Commercial

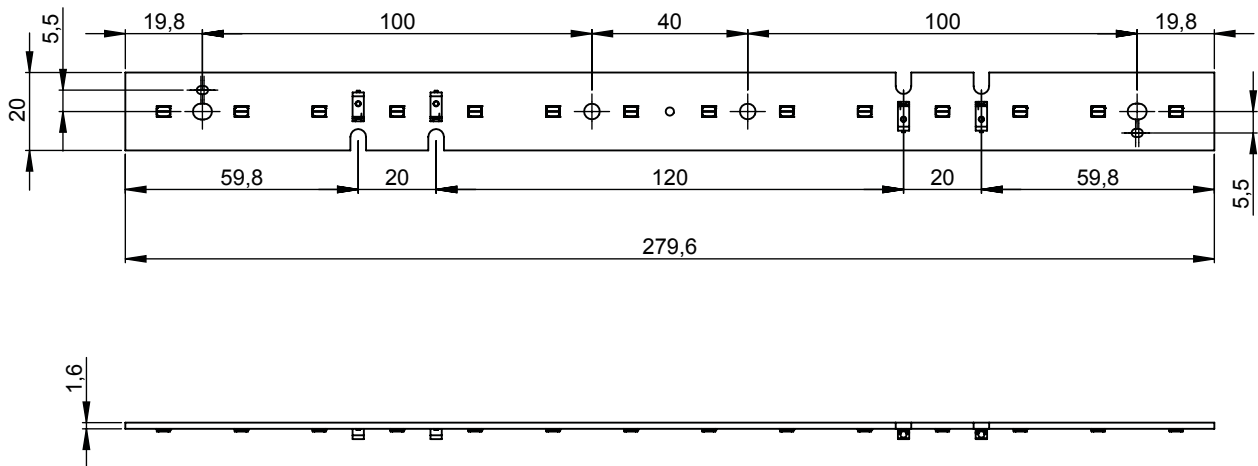
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R172911WWCW	2700K	90	240	21,7	5,3	630	119	E A G
	5700K		240	21,7	5,3	700	132	E A G
R1A76113090	3000K	90	150	39,6	5,9	854	145	E A G
R1A76114090	4000K	90	150	39,6	5,9	927	157	D A G
R1A19113090	3000K	90	150	38,4	5,75	800	153	E A G
			300	39,8	12	1680	140	E A G
R1A19114090	4000K		150	38,4	5,75	960	166	D A G
			300	39,8	12	1770	147	D A G



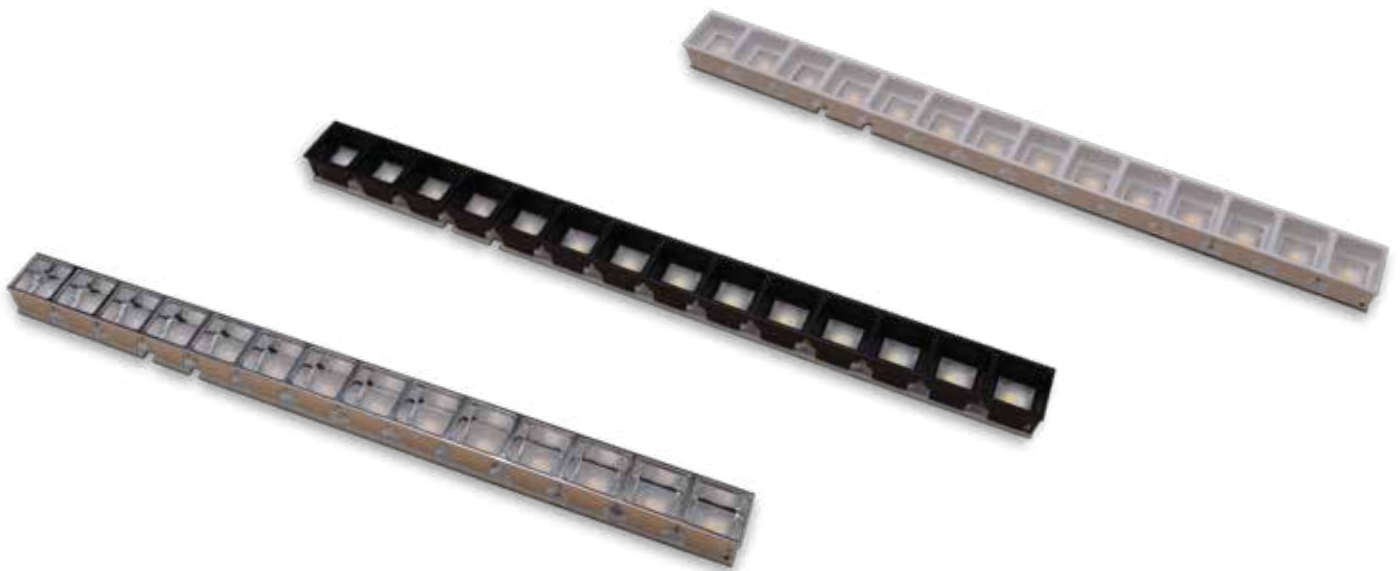
LineMAX

280x20mm W/TW module for Daisy-Mini lens | R1729 + R1A76 + R1A19

Mechanical drawing



Accessories



LineMAX

280x24mm W/TW module, 28 LEDs for Daisy lens | R1886



Features

- PCB dimension: 280x24mm, suitable for symmetrical LEDiL Daisy lens for dark light;
- Up to 2367 lm;
- Up to 204 lm/W;
- CRI 80, 90;
- White and Tunable White versions available;
- Max Electrical Insulation 250V;
- Max 10 LED boards in series;
- Connection type: AVX 709296 2,5mm;
- Long lifetime up to 72000h;
- Wall-washing asymmetrical version available (code: R1914).

Applications



Office



Indoor



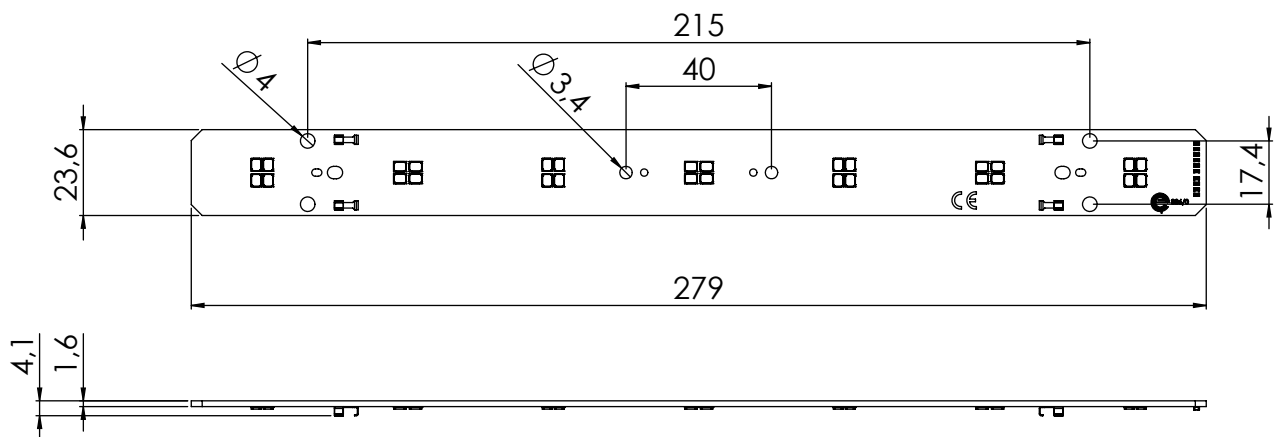
Commercial

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R1886113080	3000K	80	400	19,3	7,7	1481	192	
			600	19,9	11,9	2222	187	
R1886114080	4000K		400	19,3	7,7	1578	204	
			600	19,9	11,9	2397	199	
R1886113090	3000K	90	400	7,7	7,7	1262	164	
			600	11,9	11,9	1894	159	
R1886114090	4000K		400	7,7	7,7	1349	175	
			600	11,9	11,9	2023	170	
R188611TW90	2700K		200	3,8	3,8	713	187	
			300	6	6	1069	178	
	6500K		200	3,8	3,8	674	177	
			300	6	6	1011	168	

LineMAX

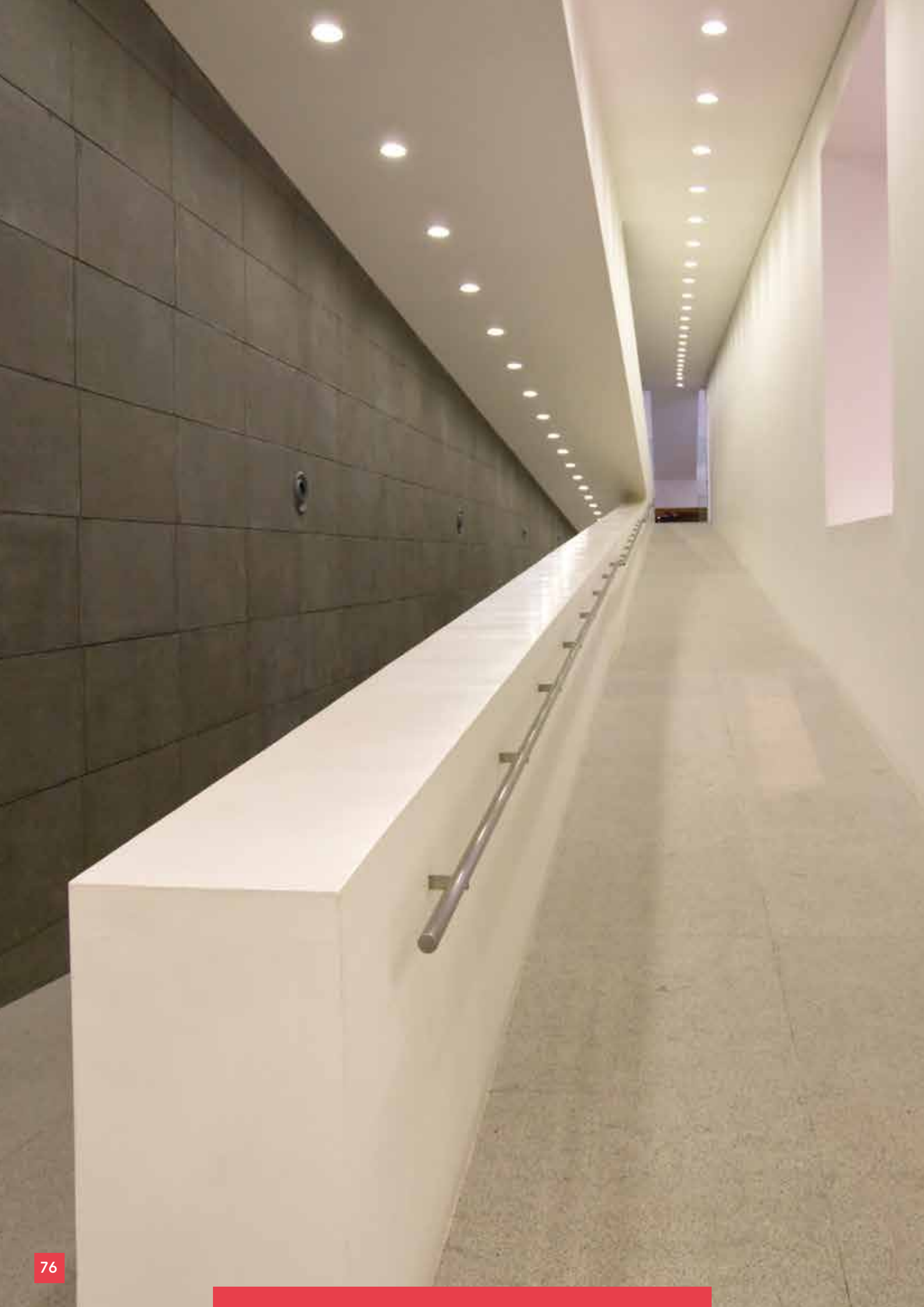
280x24mm W/TW module, 28 LEDs for Daisy lens | R1886

Mechanical drawing



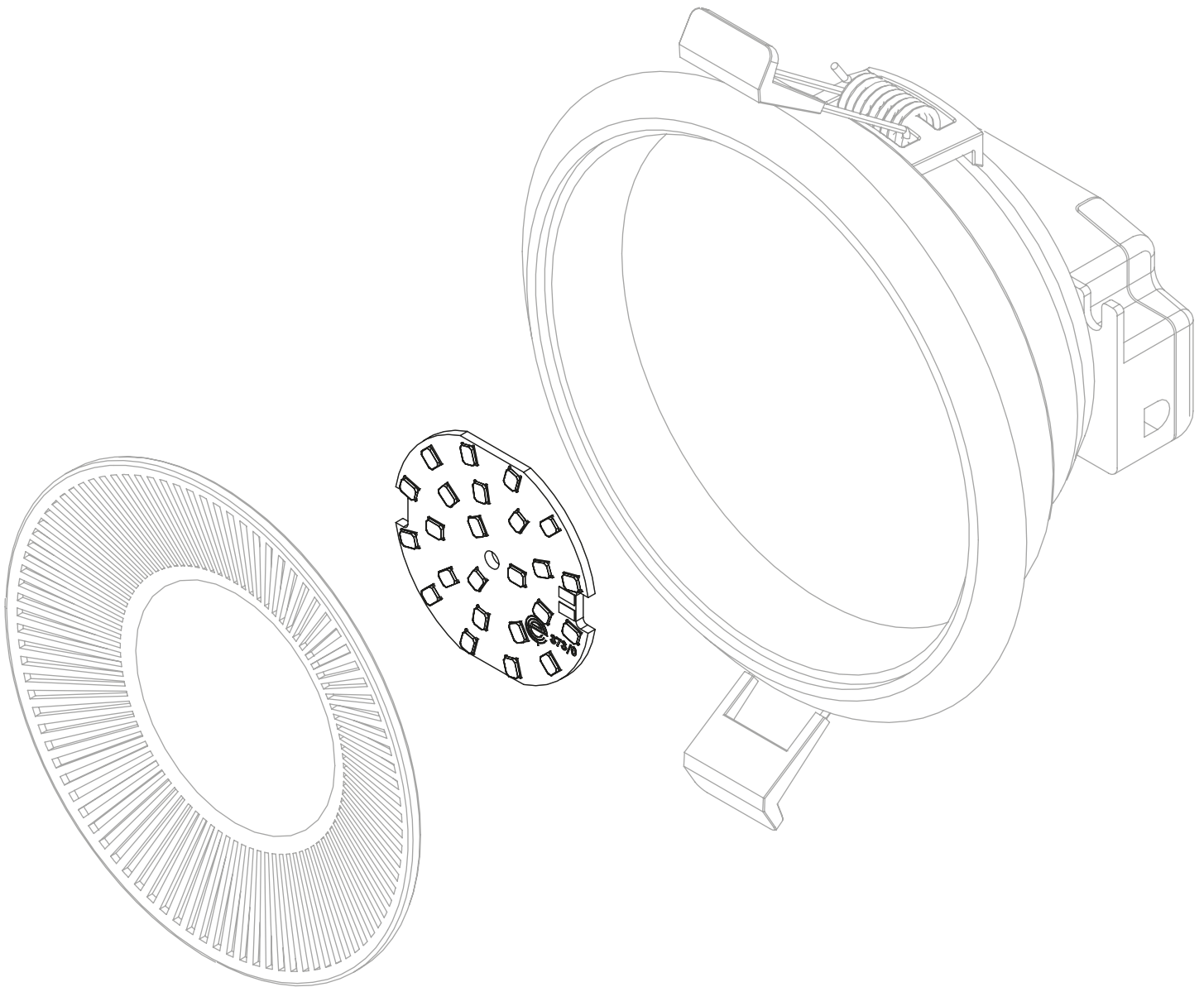
Accessories





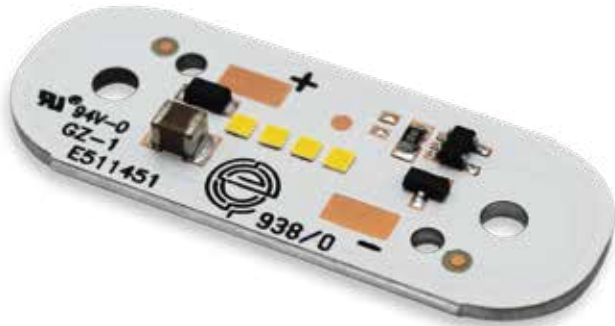
Deco**MAX**

Decorative lighting solutions



DecoMAX

LED module for windowsill light | R2938



Features

- PCB dimension: 44x17mm;
- Up to 490 lm;
- Up to 155 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation <150V;
- Lifetime Ts= 85°C >60000h if = 160mA;
- CV version available on request;
- Suitable for windowsill light applications;
- RGBW version available (code: R2880).

Applications



Decorative



Architectural

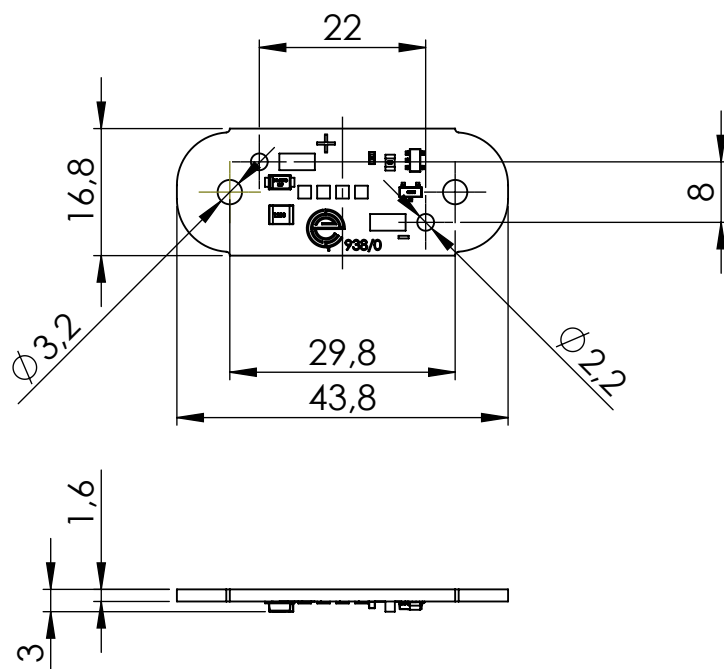
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R2938012780100	2700K	80	150	11,10	1,70	245	144		
			300	11,50	3,50	457	130		
R2938014080100	4000K		150	11,10	1,70	265	155		
			300	11,50	3,50	490	140		
R2938015080100	5000K		150	11,50	3,50	265	155		
			300	11,50	3,50	490	140		



DecoMAX

LED module for windowsill light | R2938

Mechanical drawing

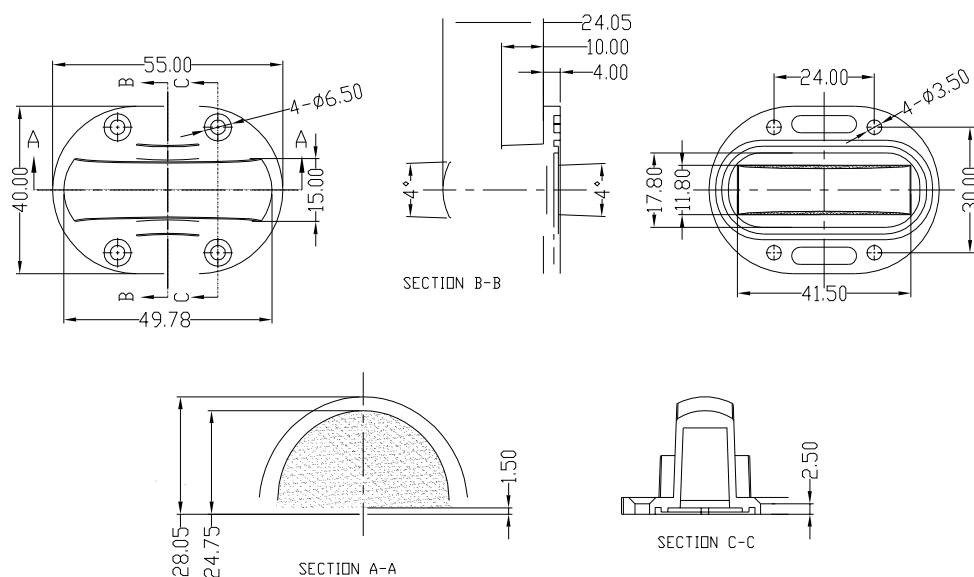


Accessories



Lenses

Part number	Beam angle
LL01CR-CZP03115L52 + Gasket	3° x 115°
LL01CR-CZP05100L52 + Gasket	5° x 100°



DecoMAX

4x4 RGBW power LED module | R2704



Features

- PCB dimension: 39x36mm;
- Up to 1960 lm;
- Up to 67 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250V;
- Connection type: Molex 53261 Picoblade 8 way;
- Lifetime >60000h @ 350mA;
- NTC available on request;
- White and Dynamic White available on request;
- 8 poles cable included (length on request).

Applications



Indoor



Commercial



Color Mixing



Decorative



Architectural

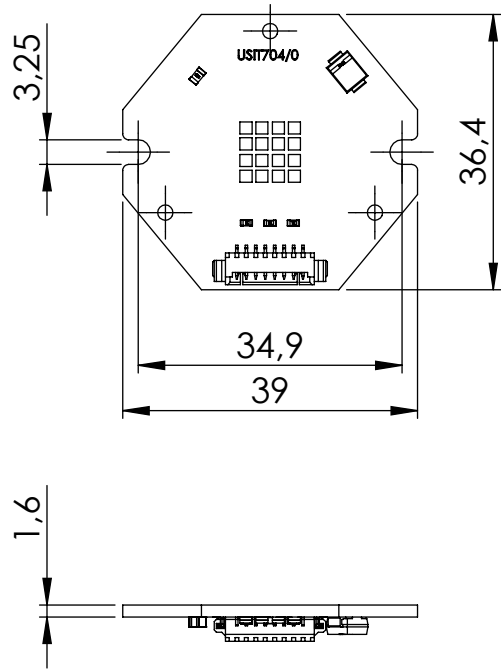
Code	CCT	CRI	Current [mA]	Voltage [V]					Power [W]	Total Lumen [lm]					lm/W	Energy Efficiency
				R	G	B	W	Tot		R	G	B	W	Tot		
R270400RGBW	RGBW + 3000K	80	500	9,15	11,8	12,1	11,7	44,75	22,4	249	426	164	563	1402	63	G A ↑ G
			700	9,6	12,1	12,5	12,1	46,3	32,4	334	520	211	727	1792	56	G A ↑ G
	RGBW + 4000K		500	9,15	11,8	12,1	11,7	44,75	22,4	249	426	164	642	1481	66	G A ↑ G
			700	9,6	12,1	12,5	12,1	46,3	32,4	334	520	211	829	1894	59	G A ↑ G
	RGBW + 5000K		500	9,15	11,8	12,1	11,7	44,75	22,4	216	426	164	684	1490	67	G A ↑ G
			700	9,6	12,1	12,5	12,1	46,3	32,4	346	520	211	883	1960	61	G A ↑ G



DecoMAX

4x4 RGBW power LED module | R2704

Mechanical drawing



Accessories



Lenses	
Part number	Beam angle
LL01CR-PV45L02	45°
LL01CR-PV60L02	60°
LL01CR-PV80L02	80°

DecoMAX

RGBW power LED star | R2293



Features

- PCB diameter: 20mm;
- Up to 530 lm;
- Up to 71 lm/W;
- CRI 80;
- Max Electrical Insulation 60V;
- Lifetime >60000h @ 350mA Tp 85°C;
- White and Dynamic White available on request.

Applications



Indoor



Commercial



Color Mixing



Decorative



Architectural

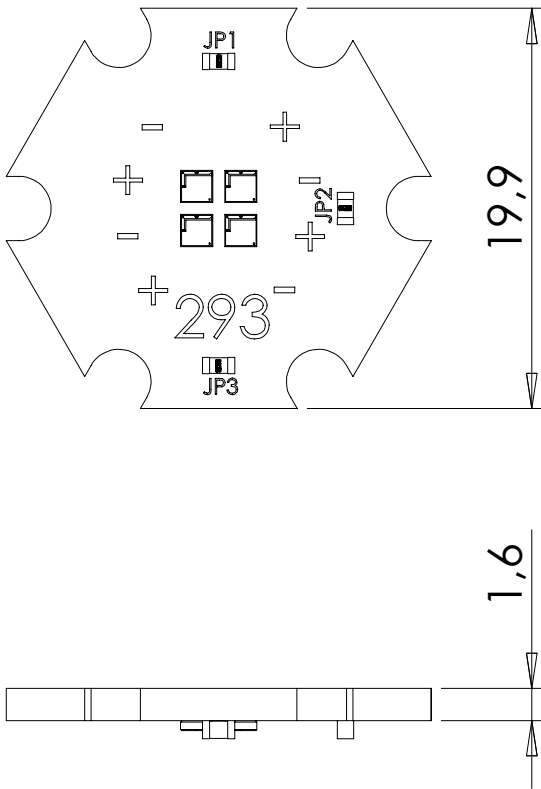
Code	CCT	CRI	Current [mA]	Voltage [V]					Power [W]	Total Lumen [lm]					lm/W	Energy Efficiency
				R	G	B	W	Tot		R	G	B	W	Tot		
R229301RGBW	RGBW + 3000K	80	500	2,3	3,3	3,2	2,95	11,75	5,88	66	117	45	137	365	62	G A↑ G
			700	2,4	3,4	3,3	3,05	12,15	8,5	89	142	61	184	476	56	G A↑ G
	RGBW + 4000K		500	2,3	3,3	3,2	2,95	11,75	5,88	66	117	45	167	395	67	G A↑ G
			700	2,4	3,4	3,3	3,05	12,15	8,5	89	142	61	208	500	59	G A↑ G
	RGBW + 5000K		500	2,3	3,3	3,2	2,95	11,75	5,88	66	117	45	190	418	71	G A↑ G
			700	2,4	3,4	3,3	3,05	12,15	8,5	89	142	61	238	530	62	G A↑ G



DecoMAX

RGBW power LED star | R2293

Mechanical drawing



Accessories



Lenses	
Part number	Beam angle
LL01ED-AFD15L06	15°
LL01ED-AFD20L06	20°
LL01CR-ANW10L06	10°
LL01CR-ANW20L06	20°
LL01CR-ANW30L06	30°

DecoMAX

RGBW 44mm spot module | R2121



Features

- PCB diameter: 44mm;
- Up to 367 lm;
- Up to 59 lm/W;
- CRI 70, 80;
- Max Electrical Insulation 250V;
- Connection type: Molex 53261 Picoblade 8 way;
- Lifetime >60000h @ 700mA;
- NTC available on request;
- 8 poles cable included (length on request).

Applications



Indoor



Commercial



Color Mixing



Decorative



Architectural

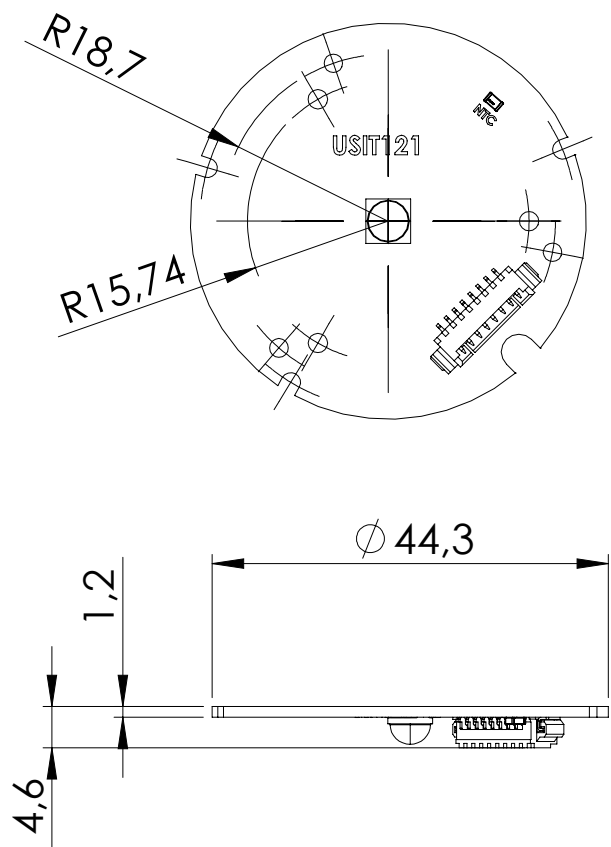
Code	CCT	CRI	Current [mA]	Voltage [V]					Power [W]	Total Lumen [lm]					lm/W	Energy Efficiency
				R	G	B	W	Tot		R	G	B	W	Tot		
R312101RGBW	RGBW + 3000K	70	350	1,7	3,0	2,8	2,8	10,3	3,6	39,4	70	13,8	66,5	190	53	
			700	2,7	4	4	4	14,7	10,3	75	112	25	115	327	32	
	RGBW + 4000K		350	1,7	3,0	2,8	2,8	10,3	3,6	39,4	70	13,8	66,5	190	53	
			700	2,7	4	4	4	14,7	10,3	75	112	25	115	327	32	
	RGBW + 5000K		350	1,7	3,0	2,8	2,8	10,3	3,6	39,4	70	13,8	90	213	59	
			700	2,7	4	4	4	14,7	10,3	75	112	25	115	367	36	



DecoMAX

RGBW 44mm spot module | R2121

Mechanical drawing



Accessories

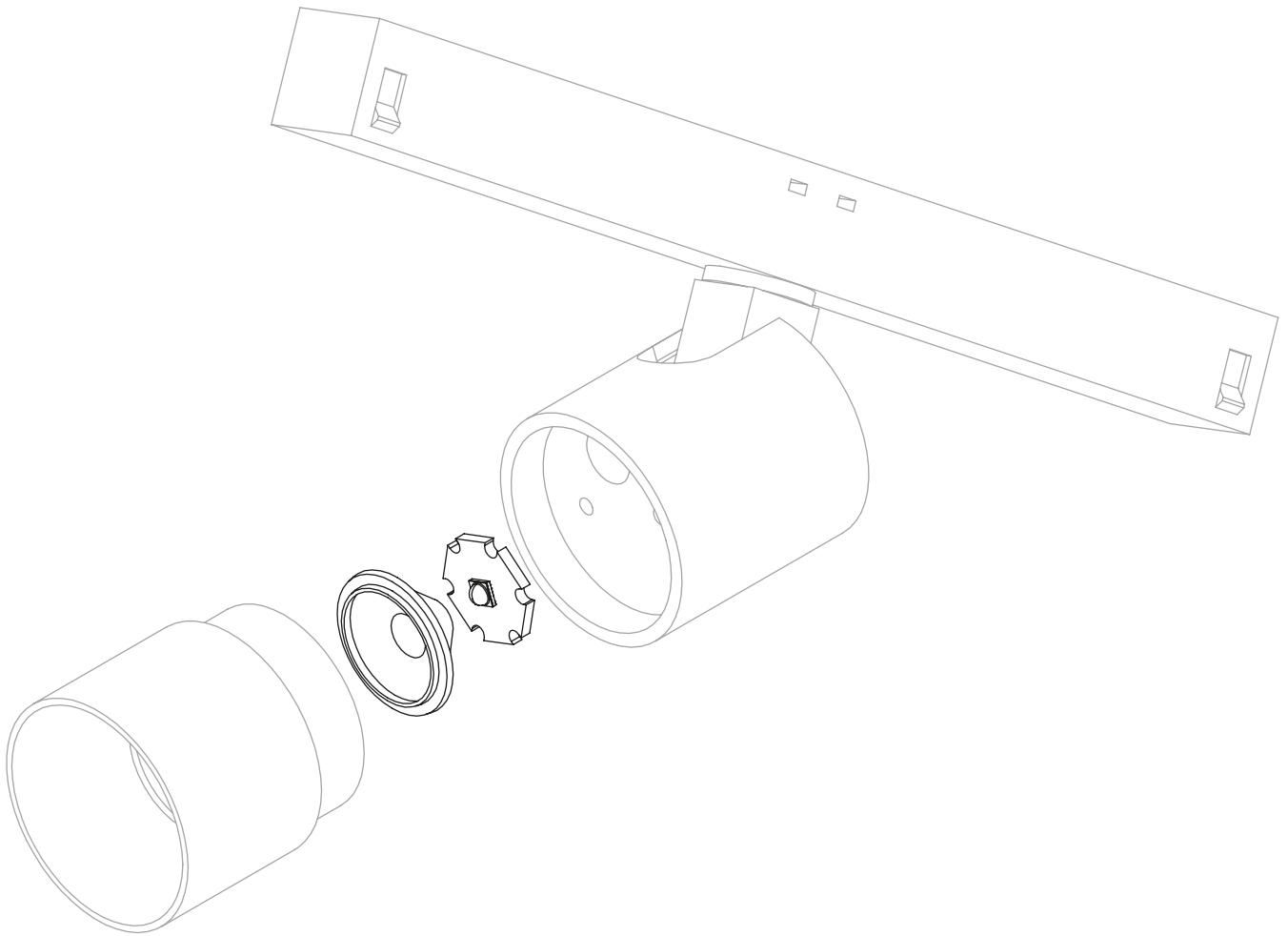


Lenses	
Part number	Beam angle
LL01CR-ABH40L02	40°
LL01CR-ABH60L02	60°
LL01CR-PV45L02	45°
LL01CR-PV60L02	60°
LL01CR-PV80L02	80°



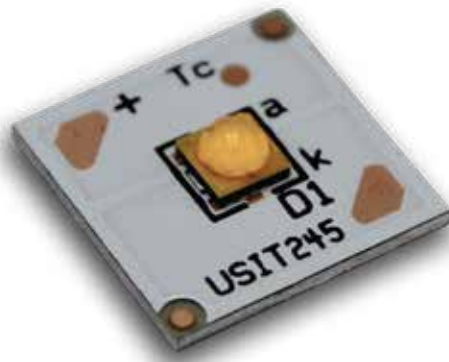
DotMAX

Spot lighting solutions



DotMAX

3535 footprint spot module, CXA 13xx compatible | R3245



Features

- PCB dimension: 13,35x13,35mm;
- Up to 350 lm;
- Up to 207 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA;
- LED options: Nichia 319, CREE XPG3/XHP35/XPL.

Applications



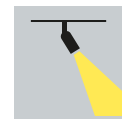
Commercial



Downlight



Office



Spotlight

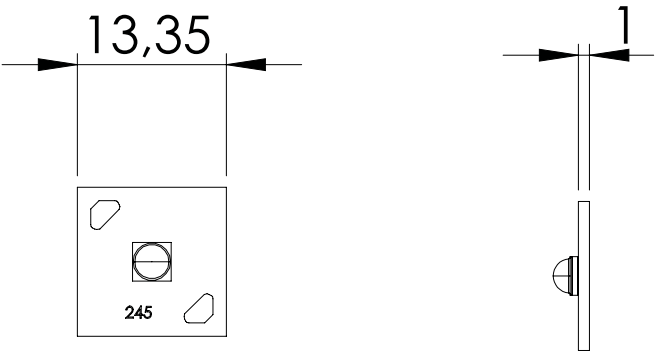
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3245013070	3000K	70	350	2,62	0,92	170	185	C A↑G
			700	2,75	1,93	310	161	D A↑G
R3245014070	4000K		350	2,62	0,92	170	185	C A↑G
			700	2,75	1,93	310	161	D A↑G
R3245015070	5000K		350	2,66	0,93	192	207	B A↑G
			700	2,8	1,96	350	179	C A↑G



DotMAX

3535 footprint spot module, CXA 13xx compatible | R3245

Mechanical drawing



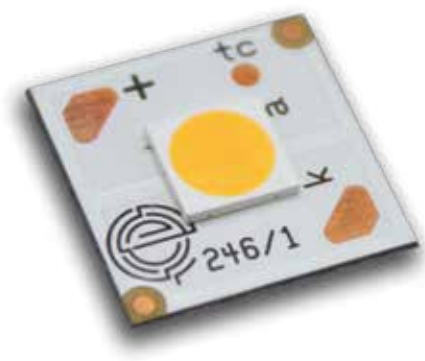
Accessories



Lenses			
Part number	Beam angle	Size	Connector
LL01CR-CHQ24L02	24°	35mm	LL01A00CSLB2 LL01A00CSNB2 LL01A00CWFB2 LL01A00CWGB2 (Solder-Free)
LL01CR-CHQ38L02	38°	35mm	
LL01CR-CHQ45L02	45°	35mm	
LL01CR-CEW12L52	12°	50mm	
LL01CR-CEW24L52	24°	50mm	
LL01CR-CEW38L52	38°	50mm	
LL01CR-CEW45L52	45°	50mm	
LL01CR-CEW60L52	60°	50mm	
LL01CR-CEW2731L52	27° x 31°	50mm	
LL01CR-CEW3662L52	36° x 62°	50mm	
LL01CR-CEW3864L52	38° x 64°	50mm	

DotMAX

5050 footprint spot module, CXA 13xx compatible | R3246



Features

- PCB dimension: 13,35x13,35mm;
- Up to 622 lm;
- Up to 152 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA.

Applications



Wall Washer



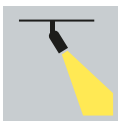
Commercial



Downlight



Office



Spotlight

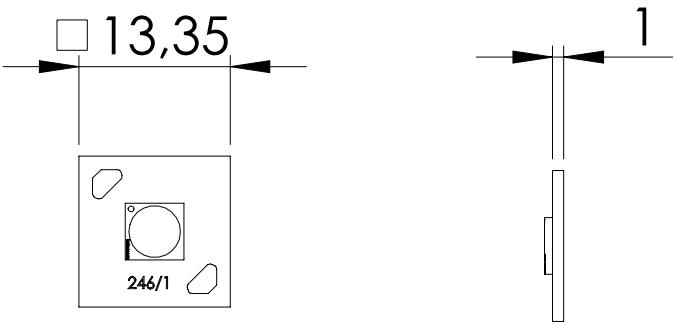
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3246013070	3000K	70	350	5,72	2	332	166	
			700	6,17	4,32	622	144	
R3246014070	4000K		350	5,72	2	303	152	
			700	6,17	4,32	568	131	
R3246015070	5000K		350	5,72	2	303	152	
			700	6,17	4,32	568	131	



DotMAX

5050 footprint spot module, CXA 13xx compatible | R3246

Mechanical drawing



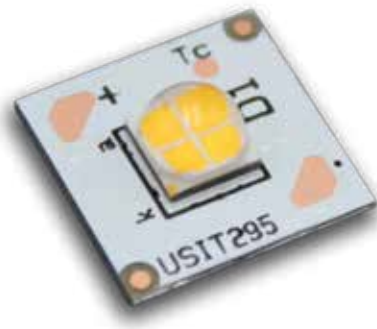
Accessories



Lenses			
Part number	Beam angle	Size	Connector
LL01CR-CHQ24L02	24°	35mm	LL01A00CSLB2 LL01A00CSNB2 LL01A00CWFB2 LL01A00CWGB2 (Solder-Free)
LL01CR-CHQ38L02	38°	35mm	
LL01CR-CHQ45L02	45°	35mm	
LL01CR-CEW12L52	12°	50mm	
LL01CR-CEW24L52	24°	50mm	
LL01CR-CEW38L52	38°	50mm	
LL01CR-CEW45L52	45°	50mm	
LL01CR-CEW60L52	60°	50mm	
LL01CR-CEW2731L52	27° x 31°	50mm	
LL01CR-CEW3662L52	36° x 62°	50mm	
LL01CR-CEW3864L52	38° x 64°	50mm	

DotMAX

XHP50 spot module, CXA 13xx compatible | R3295



Features

- PCB dimension: 13,35x13,35mm;
- Up to 1032 lm;
- Up to 155 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA.

Applications



Wall Washer



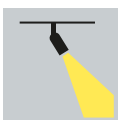
Commercial



Downlight



Office



Spotlight

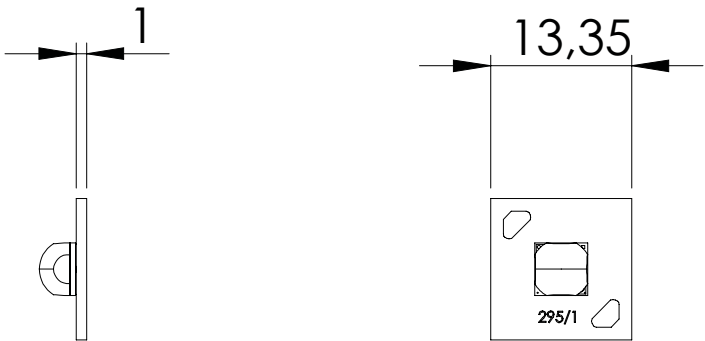
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3295013070	3000K	70	350	11,05	3,87	558	144	
			700	11,5	8,05	963	120	
R3295014070	4000K		350	11,05	3,87	558	144	
			700	11,5	8,05	963	120	
R3295015070	5000K		350	11,05	3,87	598	155	
			700	11,5	8,05	1032	128	



DotMAX

XHP50 spot module, CXA 13xx compatible | R3295

Mechanical drawing



Accessories



Lenses			
Part number	Beam angle	Size	Connector
LL01CR-CHQ24L02	24°	35mm	LL01A00CSLB2 LL01A00CSNB2 LL01A00CWFB2 LL01A00CWGB2 (Solder-Free)
LL01CR-CHQ38L02	38°	35mm	
LL01CR-CHQ45L02	45°	35mm	
LL01CR-CEW12L52	12°	50mm	
LL01CR-CEW24L52	24°	50mm	
LL01CR-CEW38L52	38°	50mm	
LL01CR-CEW45L52	45°	50mm	
LL01CR-CEW60L52	60°	50mm	
LL01CR-CEW2731L52	27° x 31°	50mm	
LL01CR-CEW3662L52	36° x 62°	50mm	
LL01CR-CEW3864L52	38° x 64°	50mm	

DotMAX

XHP70 spot module, CXA 15xx compatible | R3343



Features

- PCB dimension: 15,85x15,85mm;
- Up to 1635 lm;
- Up to 139 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA.

Applications



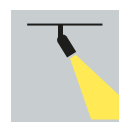
Commercial



Downlight



Office



Spotlight

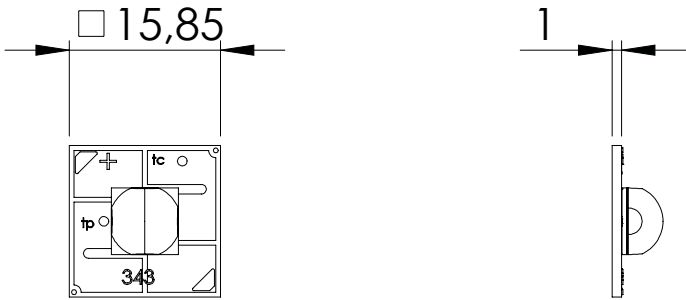
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3343013070	3000K	70	700	10,9	7,63	923	121	
			1050	11,2	11,76	1420	121	
R3343014070	4000K		700	10,9	7,63	988	129	
			1050	11,2	11,76	1520	129	
R3343015070	5000K		700	10,9	7,63	1063	139	
			1050	11,2	11,76	1635	139	



DotMAX

XHP70 spot module, CXA 15xx compatible | R3343

Mechanical drawing



Accessories



Lenses			
Part number	Beam angle	Size	Connector
LL01CR-CEN12L52	12°	70mm	LL01A00CSKB2 LL01NIWZ24H2 LL01A00CWHB2 LL01A00CWDB2 (Solder-Free)
LL01CR-CEN24L52	24°	70mm	
LL01CR-CEN38L52	38°	70mm	
LL01CR-CEN45L52	45°	70mm	
LL01CR-CEN60L52	60°	70mm	

DotMAX

68,5mm spot module, 5050 flat LEDs | R3A54



Features

- PCB dimension: 68,5mm;
- Up to 1809 lm;
- Up to 167 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 230V;
- Max 9 LED boards in series;
- Connection type: AVX 70-9296 2.5mm;
- Lifetime >60000h @ Ts=85°C a 350mA;
- 24V CV version available on request.

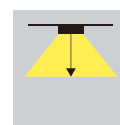
Applications



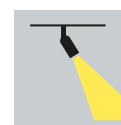
Commercial



Downlight



Low Bay



Spotlight



Indoor

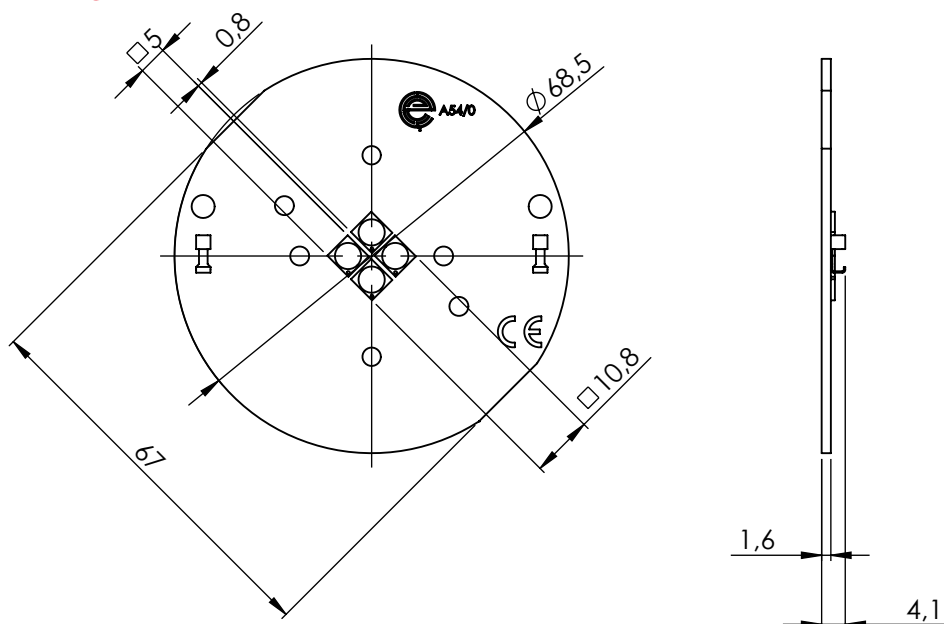
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3A54013080	3000K	80	350	22,5	7,8	1285	165	D A↑G
			500	23,1	11,5	1784	155	D A↑G
R3A54014080	4000K		350	22,5	7,8	1303	167	D A↑G
			500	23,1	11,5	1809	157	D A↑G



DotMAX

68,5mm spot module, 5050 flat LEDs | R3A54

Mechanical drawing



Accessories



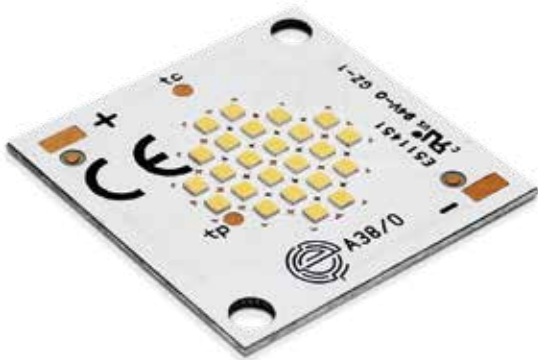
Lenses

Part number	Beam angle	Size	Connector
LL01CR-CEN12L02	12°	70mm	LL01A00CSKB2 LL01NIWZ24H2 LL01A00CWHB2 LL01A00CWDB2 (Solder-Free)
LL01CR-CEN24L02	24°	70mm	
LL01CR-CEN38L02	38°	70mm	
LL01CR-CEN45L02	45°	70mm	
LL01CR-CEN60L02	60°	70mm	
LL01CR-CEN2530L02	25° x 30°	70mm	
LL01CR-CEN3560L02	35° x 60°	70mm	
LL01CR-CFE12L02	12°	70mm	
LL01CR-CFE24L02	24°	70mm	
LL01CR-CFE38L02	38°	70mm	
LL01CR-CEO12L02	12°	90mm	LL01A00CWEB2 (Solder-Free)
LL01CR-CEO24L02	24°	90mm	
LL01CR-CEO38L02	38°	90mm	
LL01CR-CEO60L02	60°	90mm	

Heat sink			Power supply			
Dimension (DxH)	Material	Thermal wattage	Dimension (LxWxH)	Protection type	Output	Input
68x30mm	Anodized aluminum	16,5W	127x50x12mm	IP20	500mA – 12/24V	220-240VaC

DotMAX

CoB module 24 CSP LEDs, CLL04x compatible | R3A38



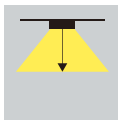
Features

- PCB dimension: 28x28mm;
- Up to 1788 lm;
- Up to 115 lm/W;
- CRI 90;
- Max Electrical Insulation 250Vdc;
- Max 6 LED boards in series;
- Connection type: cable;
- Lifetime >60000h @ 85°C 500mA;
- Available with higher ESD protector;
- Designed for DTQ lens by LedLink Optics.

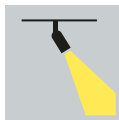
Applications



Downlight



Low Bay



Spotlight



Indoor

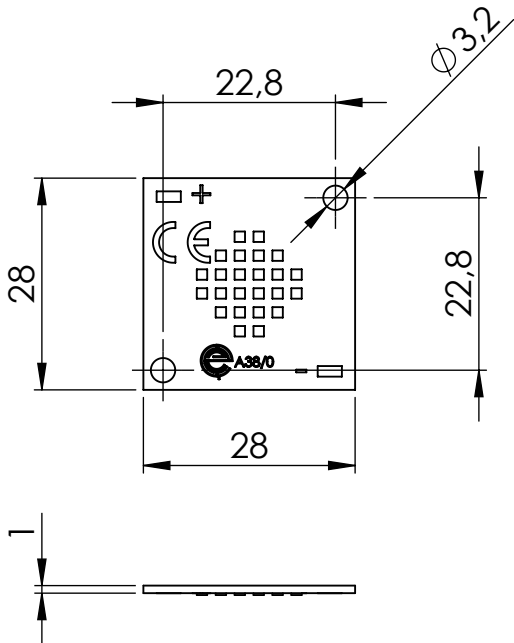
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3A38012790	2700K	90	350	32,4	11,3	1203	106	
			500	32,9	16,4	1677	102	
R3A38013090	3000K		350	32,4	11,3	1297	115	
			500	32,9	16,4	1788	109	
R3A38014090	4000K		350	32,4	11,3	1297	115	
			500	32,9	16,4	1788	109	



DotMAX

CoB module 24 CSP LEDs, CLL04x compatible | R3A38

Mechanical drawing



Accessories



Lenses

Part number	Beam angle	Diameter	Connector
LL01ZZ-DTQ15L02-M2	15°	150mm	LL01A00SVQB2 LL01A00SWEB2
LL01ZZ-DTQ24L02-M2	24°	150mm	
LL01ZZ-DTQ38L02-M2	38°	150mm	
LL01ZZ-DTQ45L02-M2	45°	150mm	
LL01ZZ-DTQ60L02-M2	60°	150mm	

Heat sink			Power supply			
Dimension (DxH)	Material	Thermal wattage	Dimension (LxWxH)	Protection type	Output	Input
80x50mm	Black Anodized	21W	85,3x41x22mm	IP20	25W	220-240VaC

DotMAX

25mm spot module, 4 CSP LEDs | R3766



Features

- PCB diameter: 25mm;
- Up to 706 lm;
- Up to 133 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250V;
- Max 20 LED boards in series;
- Lifetime > 60000h @ 85°C 500mA;
- Compatible with LEDiL Heidi lens.

Applications



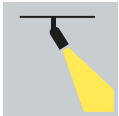
Commercial



Downlight



Office



Spotlight

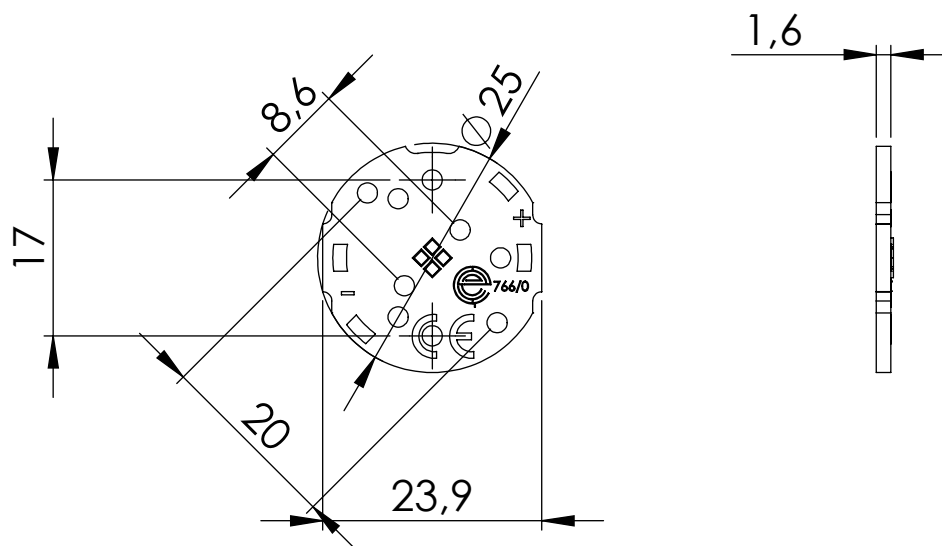
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3766013080	3000K	80	350	11,5	4	496	124	E A↑G
			500	11,8	5,9	700	119	F A↑G
R3766014080	4000K		350	11,5	4	532	133	E A↑G
			500	11,8	5,9	706	120	E A↑G
R3766013090	5000K	90	350	11,5	4	400	100	F A↑G
			500	11,8	5,9	571	97	F A↑G
R3766014090	5000K		350	11,5	4	436	109	F A↑G
			500	11,8	5,9	622	106	F A↑G



DotMAX

25mm spot module, 4 CSP LEDs | R3766

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL01CR-BLU3L06-M2-T	3°
LL01CR-BLU5L06-M2-T	5°
LL01CR-BLU520L06-M2-T	5° x 20°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX15L02	15°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX25L02	25°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX38L02	38°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX1035L02	10° x 35°
LL01CR-FL10L06-M2	10°
LL01CR-FL25L06-M2	25°
LL01CR-FL40L06-M2	40°
LL01CR-FL60L06-M2	60°
LL01CR-FL100L06-M2	100°
LL01CR-FL3065L06-M2	30° x 65°

DotMAX

XHP35 35mm spot module | R3887



Features

- PCB diameter: 35mm;
- Up to 1007 lm;
- Up to 135 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250V;
- Max 20 LED boards in series;
- Connection type: WAGO 2059 series 1 pole;
- Lifetime >60000h @ 700mA;
- Compatible with LEDiL Heidi lens.

Applications



Commercial



Downlight



Office



Spotlight

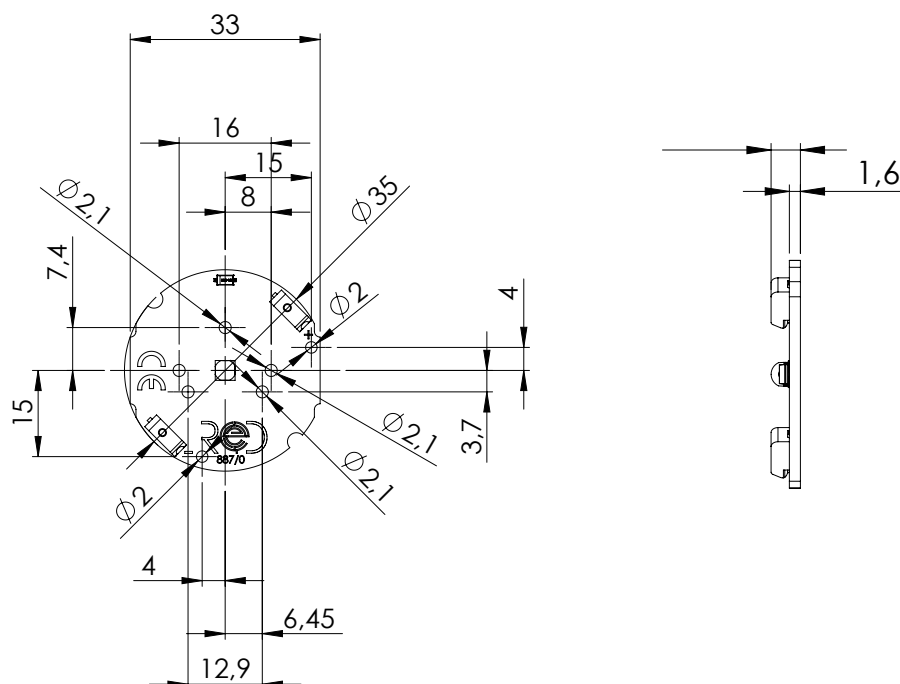
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R3887002780	2700K	80	350	11,4	4	440	110	F A++	
			700	11,7	8,3	841	102	F A++	
R3887003080	3000K		350	11,2	3,9	410	104	F A++	
			700	11,7	8,2	810	99	F A++	
R3887004080	4000K		350	11,2	3,9	530	135	F A++	
			700	11,7	8,2	1007	123	F A++	
R3887002790	2700K	90	350	11,4	4	380	95	F A++	
			700	11,7	8,2	760	92	F A++	
R3887003090	3000K		350	11,2	3,9	420	107	F A++	
			700	11,7	8,2	800	98	F A++	
R3887004090	4000K		350	11,2	3,9	400	102	F A++	
			700	11,2	8,2	760	93	F A++	



DotMAX

XHP35 35mm spot module | R3887

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL01ZZ-AHA5L06-M2-T	5°
LL01ZZ-AHA10L06-M2-T	10°
LL01ZZ-AHAxxL06-M2-T + LL01ZZ-DCK15L52	15°
LL01ZZ-AHAxxL06-M2-T + LL01ZZ-DCK20L52	20°
LL01ZZ-AHAxxL06-M2-T + LL01ZZ-DCK30L52	30°
LL01ZZ-AHAxxL06-M2-T + LL01ZZ-DCK40L52	40°
LL01ZZ-AHAxxL06-M2-T + LL01ZZ-DCK60L52	60°
LL01CR-BLU3L06-M2-T	3°
LL01CR-BLU5L06-M2-T	5°
LL01CR-BLU520L06-M2-T	5° x 20°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX15L02	15°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX25L02	25°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX38L02	38°
LL01CR-BLUxx0L06-M2-T + LL01CR-DLX1035L02	10° x 35°
LL01CR-DEZ10115L06	10°x115°

DotMAX

24x20mm module, 1 power LED for dark light | R3757



Features

- PCB dimension: 24x20mm;
- Up to 460 lm;
- Up to 182 lm/W;
- Max Electrical Insulation 100V;
- Max 30 LED boards in series;
- Connection type: AVX Poke 2mm 70-9296;
- Lifetime >60000h @ 700mA;
- Suitable for dark light applications;
- 5 power LEDs version available (R1536).

Applications



Indoor



Commercial



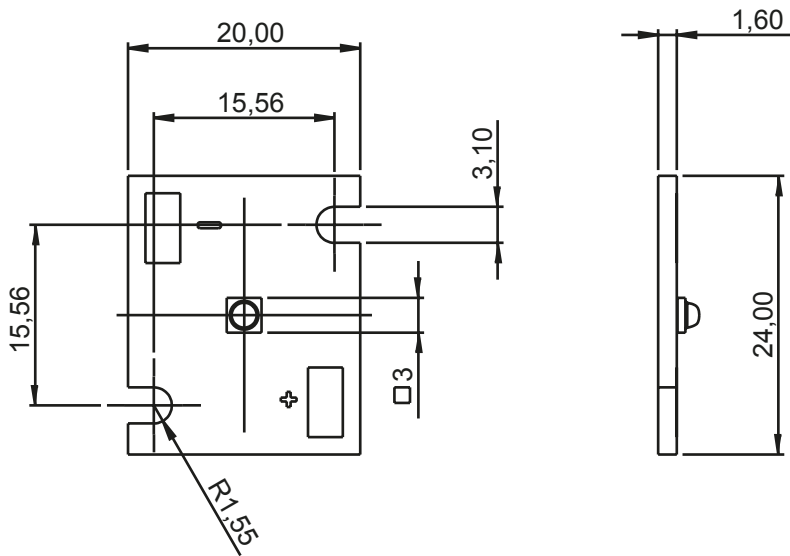
Backlight

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3757002790	2700K	90	350	2,85	1	170	170	
			700	3	2,1	311	148	
			1050	3,13	3,3	433	131	
R3757003090	3000K		350	2,85	1	176	176	
			700	3	2,1	320	152	
			1050	3,13	3,3	446	136	
R3757004090	4000K		350	2,85	1	181	181	
			700	3	2,1	329	157	
			1050	3,13	3,3	459	139	
R3757005090	5000K		350	2,85	1	181	182	
			700	3	2,1	330	157	
			1050	3,13	3,3	460	140	

DotMAX

24x20mm module, 1 power LED for dark light | R3757

Mechanical drawing



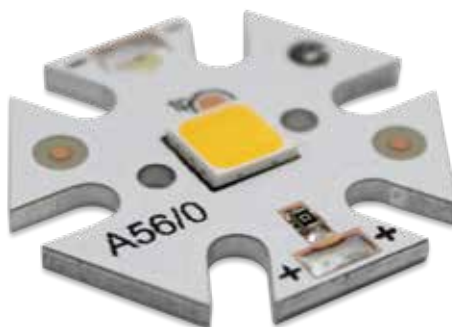
Accessories



Reflector	
LLGXTD3015-1H1	Linear Reflector 15° SINGLE
LLGXTD3030-1H1	Linear Reflector 30° SINGLE
LLGXTD3045-1H1	Linear Reflector 45° SINGLE
Shade	
LLGXTD-30H1-01	Black Cover Single

DotMAX

Star LED module for dark light | R3A56



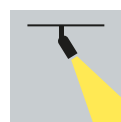
Features

- PCB dimension: 25x23mm;
- Up to 603 lm;
- Up to 161 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250Vdc;
- Max 30 LED boards in series (6V);
- CV 24V version available;
- Connection type: solder pads;
- Lifetime > 60000h @ Ts=85°C;
- Available with XTD-30 Starry lens or reflector;
- Suitable for dark light applications.

Applications



Commercial



Spotlight



Downlight



Office

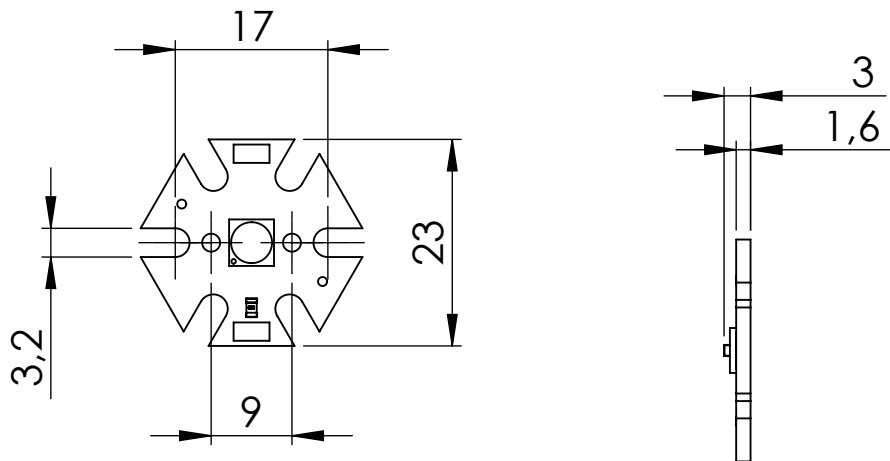
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3A56012780	2700K	80	350	5,6	2	296	148	D A↑G
			700	5,9	4,1	555	135	E A↑G
R3A56013080	3000K		350	5,6	2	303	151	D A↑G
			700	5,9	4,1	569	139	E A↑G
R3A56014080	4000K		350	5,6	2	322	161	D A↑G
			700	5,9	4,1	603	147	E A↑G



DotMAX

Star LED module for dark light | R3A56

Mechanical drawing



Accessories



Reflector	
LLGXTD30-Y-15D-R	Reflector 15°
LLGXTD30-Y-23D-R	Reflector 23°
LLGXTD30-Y-38D-R	Reflector 38°
LLGXTD30-Y-50D-R	Reflector 50°
Holder	
LLGXTD30-Y-R-ZJ	XTD30-Reflector Holder (LED3030)
Anti glare cover	
LLGXTD30-Y-TOP-08	XTD30-Chrome
LLGXTD30-Y-TOP-BK	XTD30-Matt black
LLGXTD30-Y-TOP-WT	XTD30-Matt White

DotMAX

Square LED module for dark light | R3A57



Features

- PCB dimension: 33x33mm;
- Up to 1192 lm;
- Up to 167 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250Vdc;
- Max 20 LED boards in series (12V);
- CV 36V version available;
- Connection type: solder pad;
- Lifetime > 60000h @ Ts=85°C;
- Available with XTD-50 reflectors;
- Suitable for dark light applications.

Applications



Commercial



Spotlight



Downlight



Office

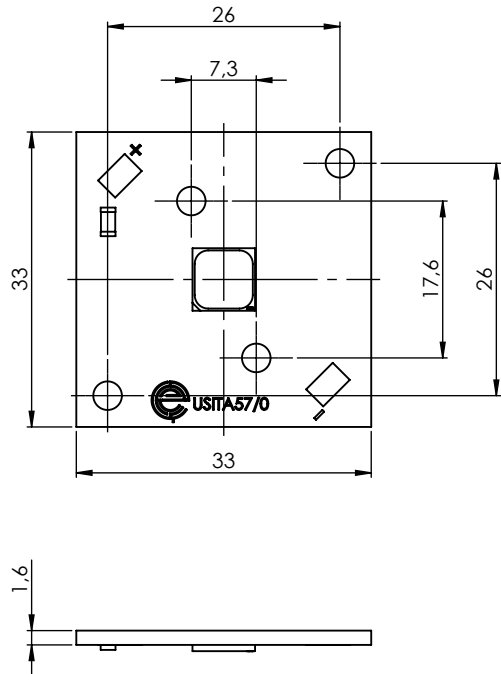
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3A57013080	3000K	80	350	11,2	3,9	628	161	D A↑G
			700	11,9	8,3	1180	142	E A↑G
R3A57014080	4000K		350	11.2	3,9	650	167	D A↑G
			700	11,9	8,3	1192	144	E A↑G



DotMAX

Square LED module for dark light | R3A57

Mechanical drawing



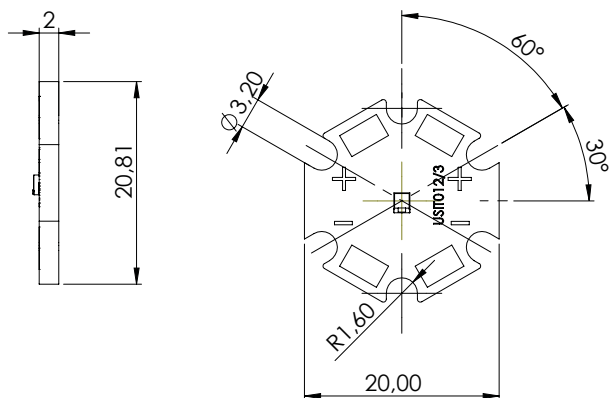
Accessories



Reflector	
XTD-5015-H1	50mm 15 degree
XTD-5030-H1	50mm 30 degree
XTD-5045-H1	50mm 45 degree
Cover	
XTD-50-JP1-H1	50mm clear
XTD-50-JP4-H1	50mm matt
Shade	
XTD-50H1-28	50mm matt black
Holder	
A-1304S	LED holder

DotMAX

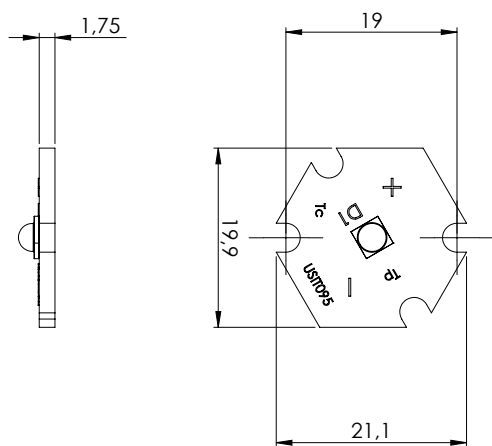
Star led modules



Features

- LED options: Luxeon TX, Luxeon Z-ES;
- PCB dimension: 20x21mm;
- Up to 350 lm;
- Up to 207 lm/W;
- CRI 70, 80, 90;
- Lifetime >60000h @ 500mA;
- Compatible with BJB holder.

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3012003070	3000K	70	350	2,76	0,97	176	182	C A↑G
			700	2,85	2	322	161	D A↑G
R3012004070	4000K		350	2,76	0,97	176	182	C A↑G
			700	2,85	2	322	161	D A↑G
R3012005070	5000K		350	2,76	0,97	164	170	C A↑G
			700	2,85	2	301	151	D A↑G



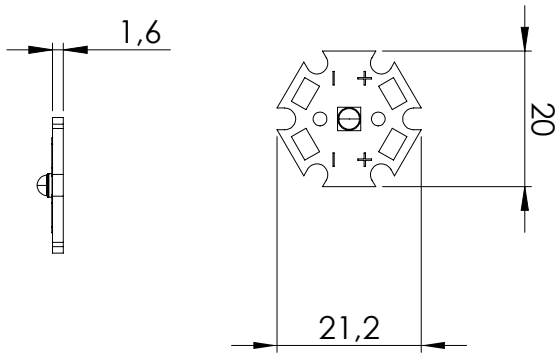
Features

- LED options: Nichia 219/319, CREE XPG3/XHP35/XPL;
- PCB dimension: 20x21,1mm;
- Up to 350 lm;
- Up to 207 lm/W;
- CRI 70, 80, 90;
- Lifetime >60000h @ 500mA;
- Compatible with BJB holders.

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R3095003070	3000K	70	350	2,62	0,92	170	185	C A↑G
			700	2,75	1,93	310	161	D A↑G
R3095004070	4000K		350	2,62	0,92	170	185	C A↑G
			700	2,75	1,93	310	161	D A↑G
R3095005070	5000K		350	2,66	0,93	192	207	B A↑G
			700	2,8	1,96	350	179	C A↑G

DotMAX

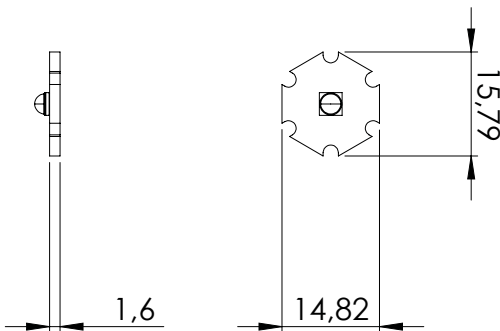
Star led modules



Features

- LED options: Nichia 219C or similar;
- PCB dimension: 20x21mm;
- Up to 350 lm;
- Up to 207 lm/W;
- CRI 70, 80, 90;
- Lifetime >60000h @ 500mA;
- Compatible with LedLink YN reflectors.

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R3237003070	3000K	70	350	2,62	0,92	170	185		
			700	2,75	1,93	310	161		
R3237004070	4000K		350	2,62	0,92	170	185		
			700	2,75	1,93	310	161		
R3237005070	5000K		350	2,66	0,93	192	207		
			700	2,8	1,96	350	179		



Features

- LED options: Nichia 219/319, CREE XPG3/XHP35/XPL;
- PCB dimension: 16x15mm;
- Up to 350 lm;
- Up to 207 lm/W;
- CRI 70, 80, 90;
- Lifetime >60000h @ 500mA.

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency	
R3262003070	3000K	70	350	2,62	0,92	170	185		
			700	2,75	1,93	310	161		
R3262004070	4000K		350	2,62	0,92	170	185		
			700	2,75	1,93	310	161		
R3262005070	5000K		350	2,66	0,93	192	207		
			700	2,8	1,96	350	179		

Accessories

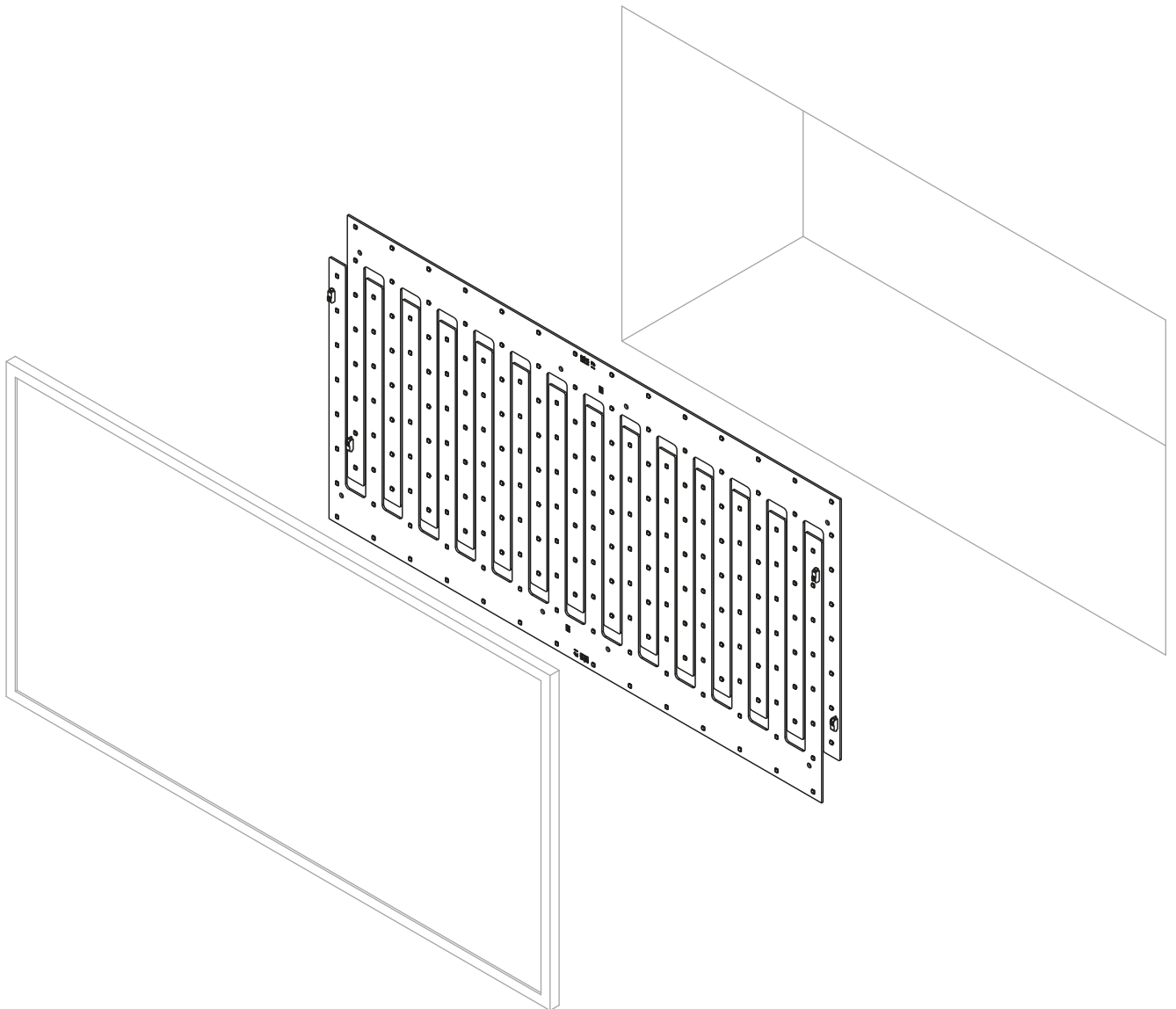
Star Thermal Interface

Part number	Dimension (mm)	Thickness (mm)	Th.conductivity (W/mK)	Th.impedance (K-cm²/W)	Breakdown voltage (Vac)	Flame rating (UL94)
UBOND725/STAR	0,25	0,23	1,0	3	>6000	V0



FlatMAX

Low-bay lighting solutions



FlatMAX

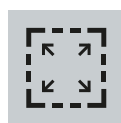
600x600mm finger module, 2x112 LEDs | R4218



Features

- Finger board for 600x600mm fixture;
- Dimension: 543x250mm (single board);
- Up to 8691 lm;
- Up to 196 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 350mA.

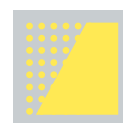
Applications



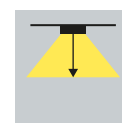
Area



Downlight



Backlight



Low Bay



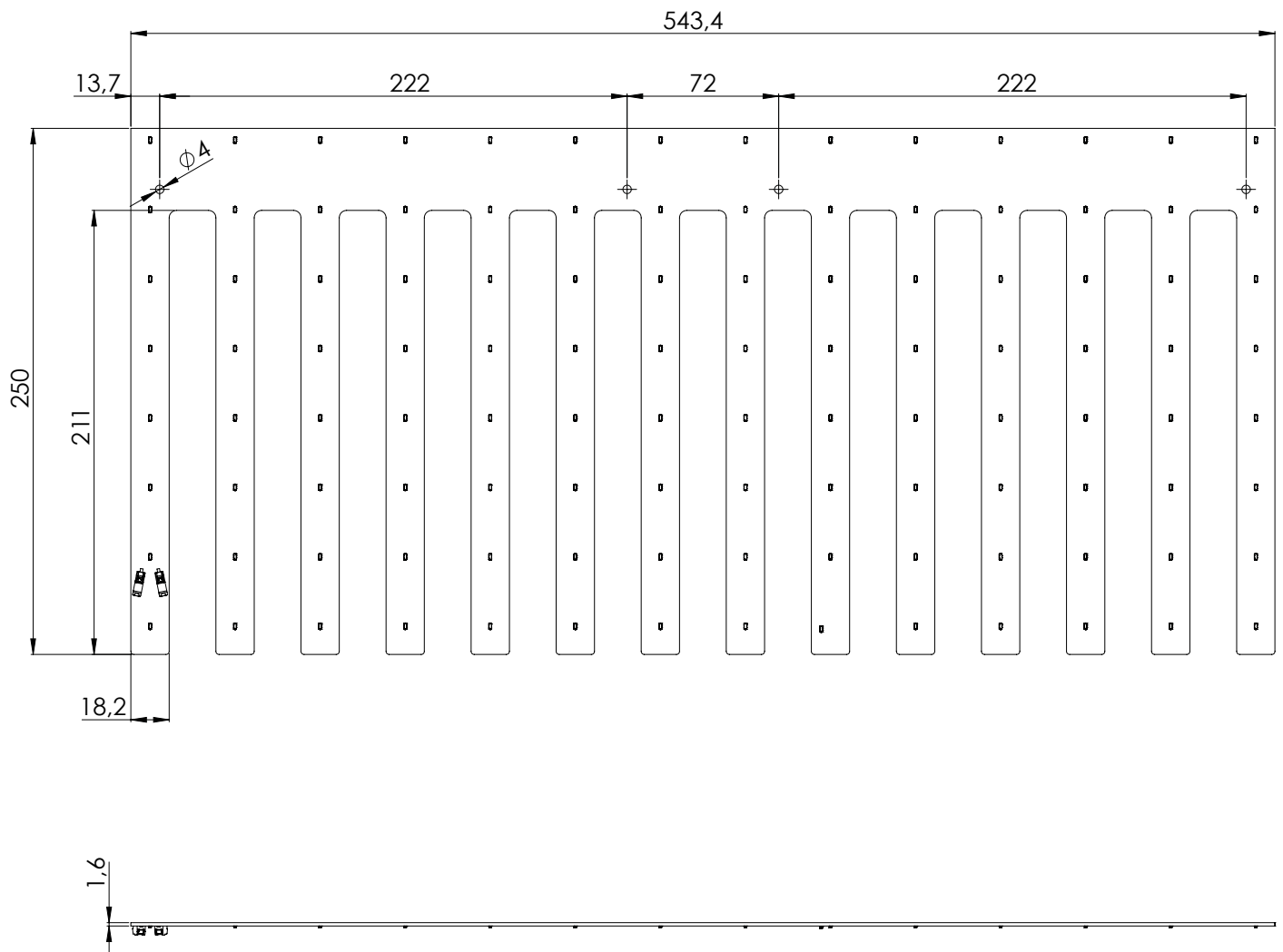
Office

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4218113080	3000K	80	350	48,8	17,08	3136	184	C A↑G
			700	49,6	34,72	5645	162	D A↑G
			1050	50,4	52,92	8467	160	D A↑G
R4218114080	4000K		350	48,8	17,08	3248	190	C A↑G
			700	49,6	34,72	5768	166	D A↑G
			1050	50,4	52,92	8579	162	D A↑G
R4218115080	5000K		350	48,8	17,08	3360	196	C A↑G
			700	49,6	34,72	5880	169	D A↑G
			1050	50,4	52,92	8691	164	D A↑G

FlatMAX

600x600mm finger module, 2x112 LEDs | R4218

Mechanical drawing (single board)



FlatMAX

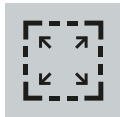
600x600mm finger module, 224+224 LEDs, tunable white | R4428



Features

- Finger board for 600x600mm fixture;
- Dimension: 543x250mm (single board);
- Up to 8782 lm;
- Up to 148 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 350mA;
- S14P8 x 2 channel version available (code: R4414).

Applications



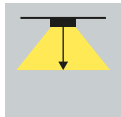
Area



Downlight



Backlight



Low Bay



Office

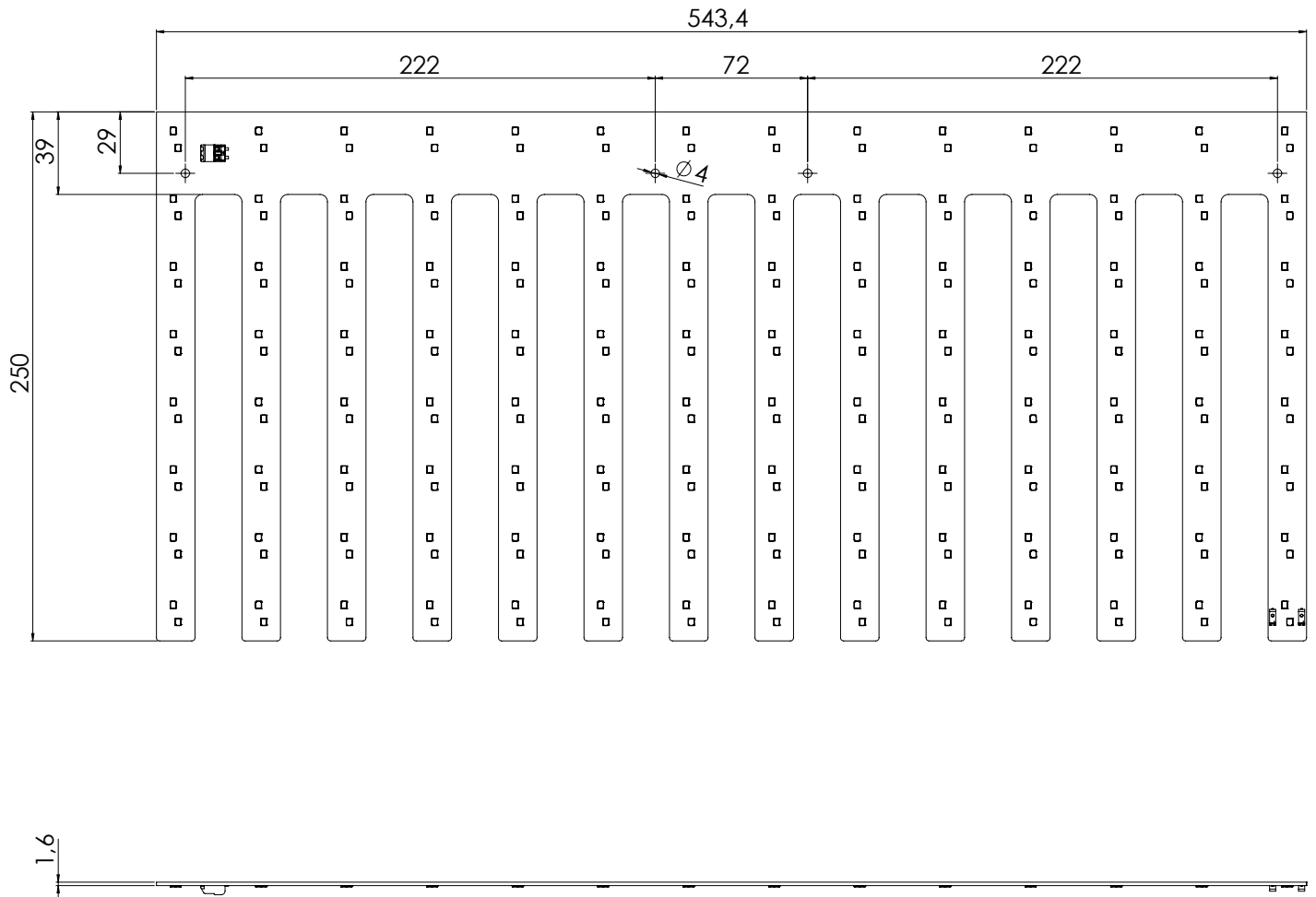
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R442811TW80	2700K	80	350	91,6	32,06	4096	128	
	6500K			91,1	31,89	4736	148	
	2700K+6500K			182,5	63,88	8782	137	



FlatMAX

600x600mm finger module, 224+224 LEDs, tunable white | R4428

Mechanical drawing



FlatMAX

Finger LED module for backlighting | R4950



Features

- PCB dimension: 510x252mm;
- 64+64 LEDs (6060 type) with 160° batwing lens;
- Up to 2070 lm;
- Up to 142 lm/W;
- CRI 90;
- CV and TW versions available on request;
- Max Electrical Insulation 350V;
- Connection type: Wago 2060;
- Lifetime >60000h @ 65°C L70B50.

Applications



Backlight

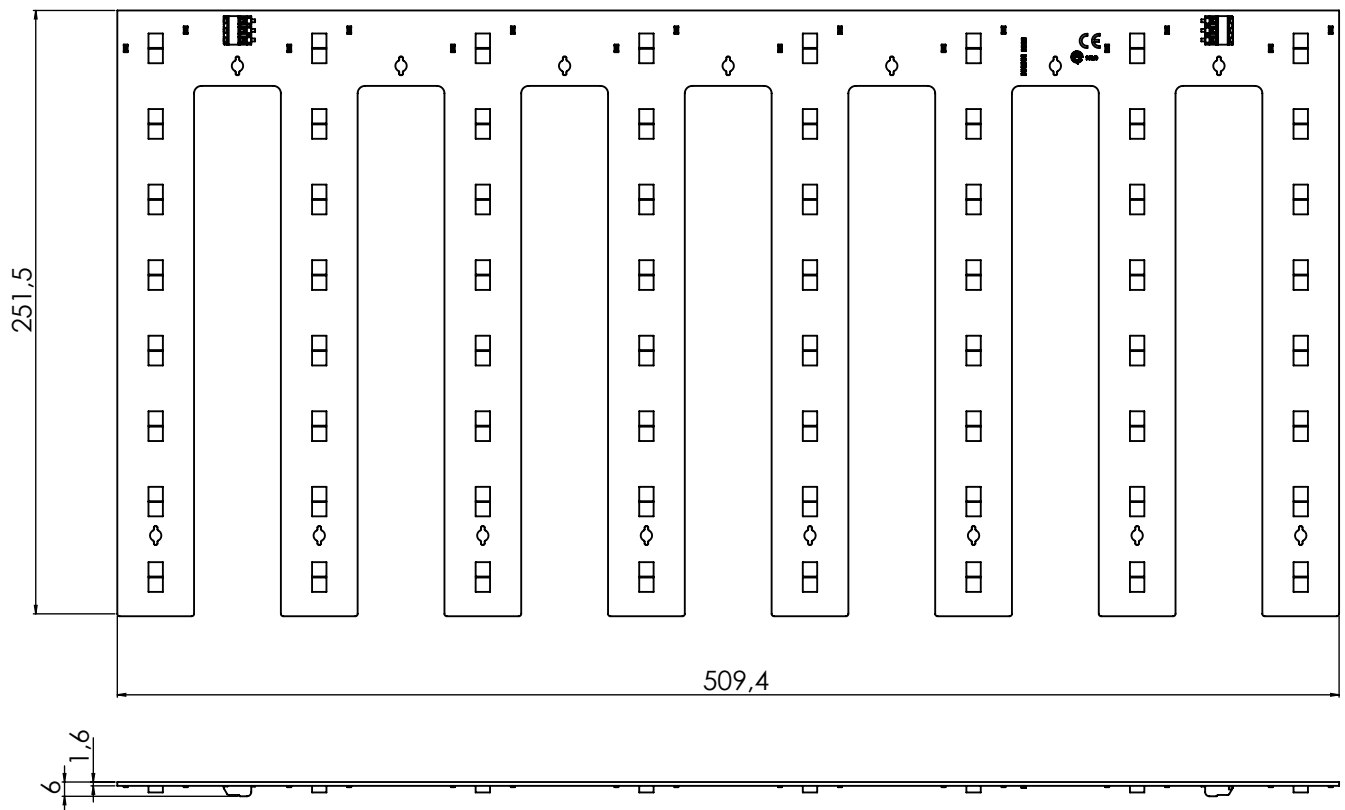
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4950113090	3000K	90	350	21,5	7,5	935	125	E A ↑ G
			700	22	15,4	1900	123	E A ↑ G
R4950114090	4000K		350	21,5	7,5	1067	142	E A ↑ G
			700	22	15,4	2070	134	E A ↑ G
R4950116590	6500K		350	21,5	7,5	946	126	E A ↑ G
			700	22	15,4	1855	120	E A ↑ G



FlatMAX

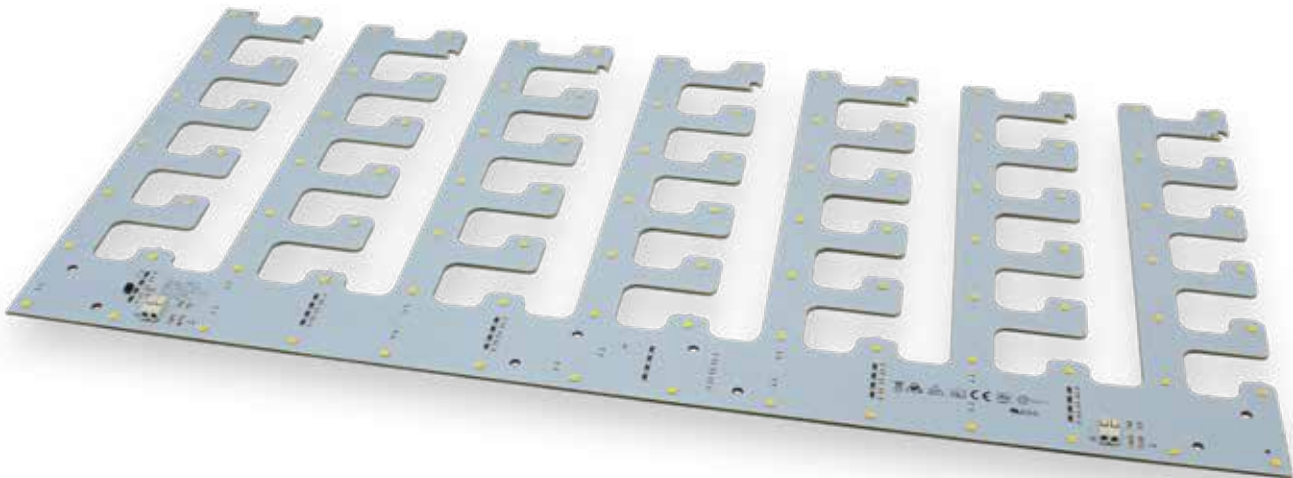
Finger LED module for backlighting | R4950

Mechanical drawing



FlatMAX

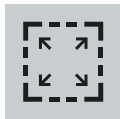
520x246mm finger module, 98 LEDs | R4A23



Features

- PCB dimension: 520x246mm;
- Up to 4922 lm;
- Up to 162 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 420Vdc;
- Max 10 LED boards in series;
- Connection type: Wago 2060 2P;
- Lifetime > 60000h @ 55°C 100mA.

Applications



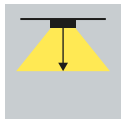
Area



Downlight



Backlight



Low Bay



Office

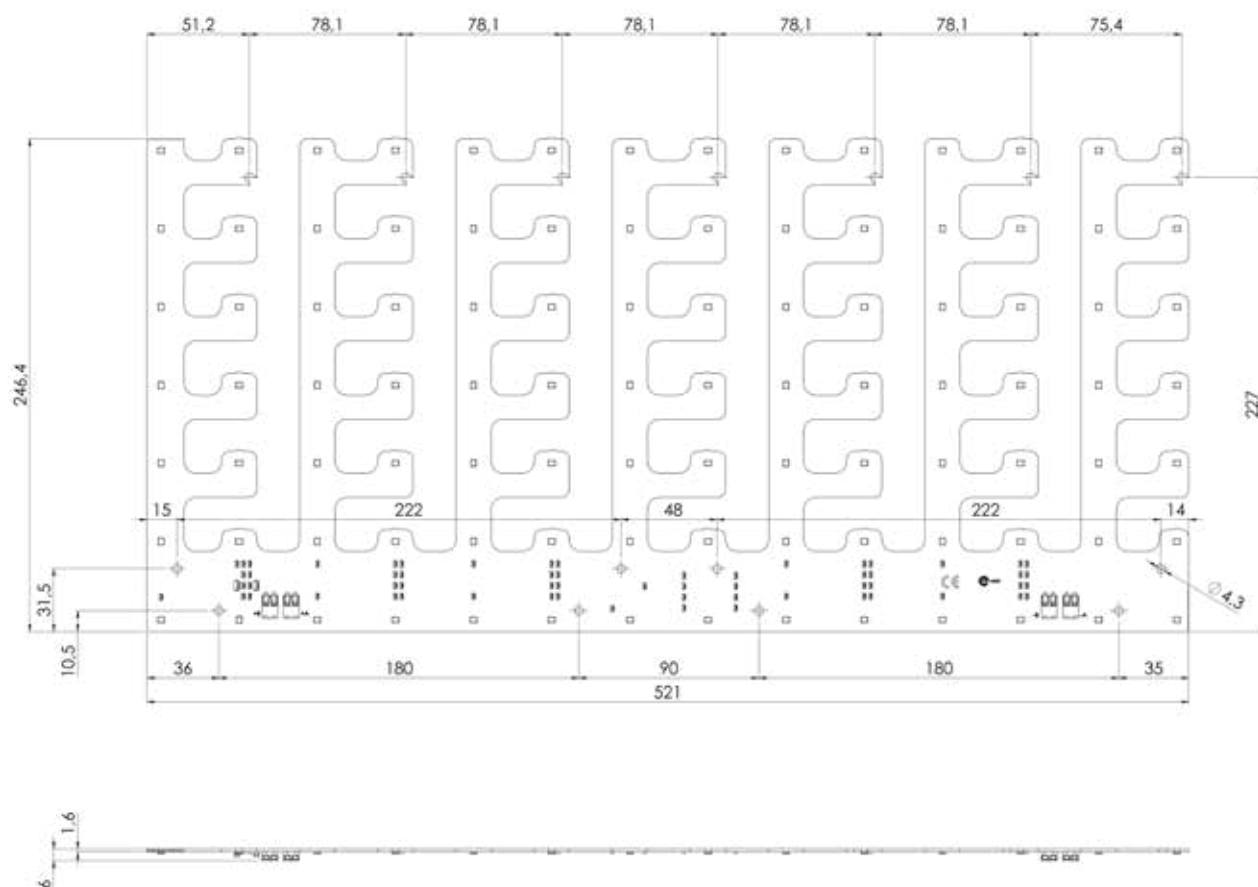
Code	CCT	CRI	Current [mA]	Voltage [V]	Total Lumen [lm]	lm/W	Energy Efficiency
R4A23114080	4000K	80	300	37,9	1850	162	
			350	38,1	2113	159	
			500	38,8	2953	152	
			700	39,5	3971	144	
R4950114090		90	350	38	1821	137	
			500	38,8	2545	132	
			700	39,5	3441	125	
			1050	40,7	4922	115	



FlatMAX

520x246mm finger module, 98 LEDs | R4A23

Mechanical drawing



FlatMAX

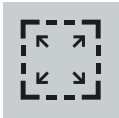
Slice module, 60 mid-power LEDs | R4364



Features

- PCB radius: 283mm;
- Up to 3348 lm;
- Up to 196 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA.

Applications



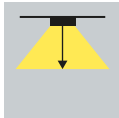
Area



Downlight



Backlight



Low Bay



Office

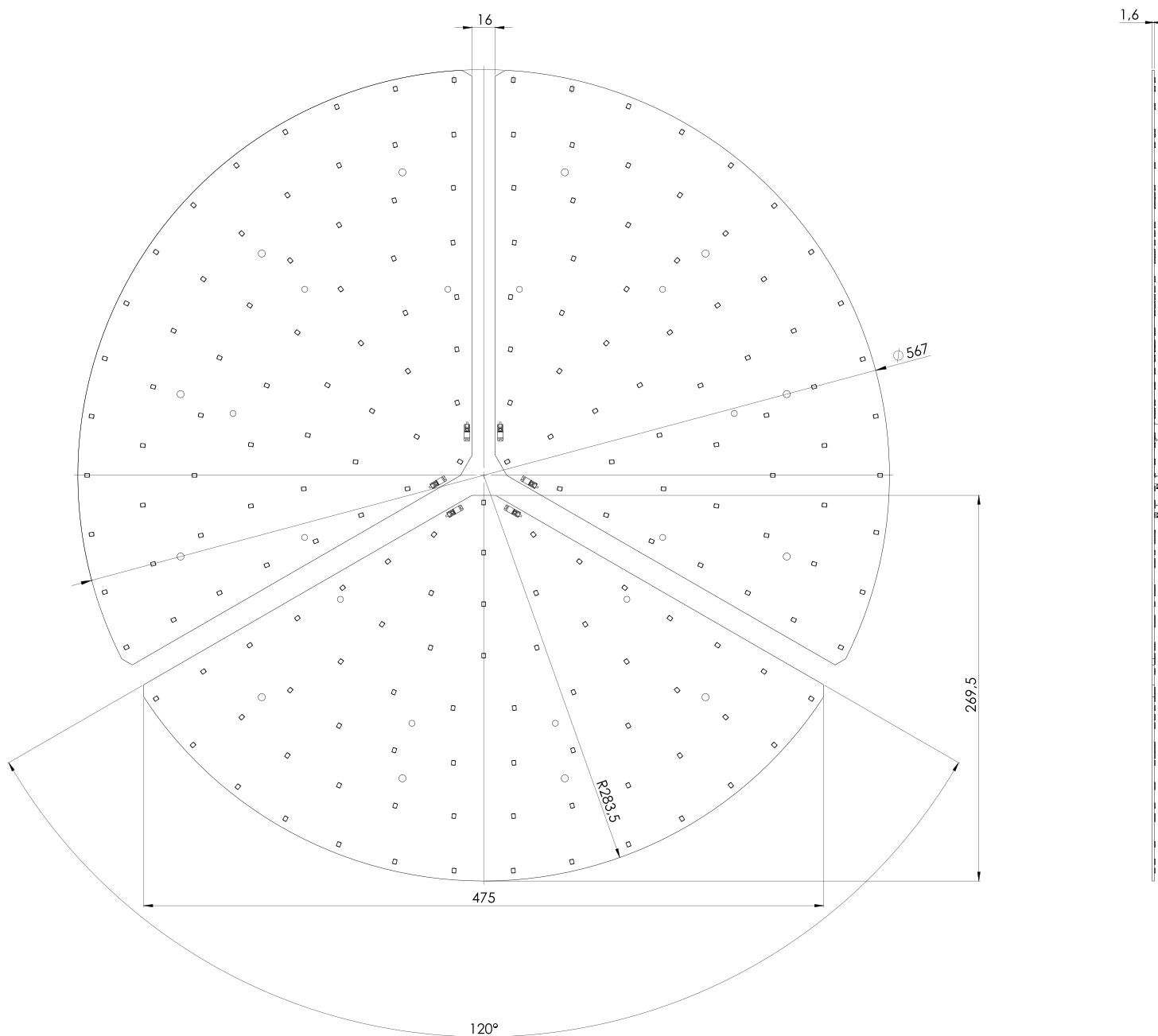
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4364013080	3000K	80	700	17,28	12	2112	175	
			1050	18,06	19	2976	157	
R4364014080	4000K		700	17,28	12	2244	185	
			1050	18,06	19	3162	167	
R4364015080	5000K		700	17,28	12	2376	196	
			1050	18,06	19	3348	177	



FlatMAX

Slice module, 60 mid-power LEDs | R4364

Mechanical drawing



FlatMAX

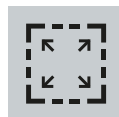
Round module, 72 mid-power LEDs | R4366



Features

- PCB diameter: 237mm;
- Up to 4406 lm;
- Up to 177 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA.

Applications



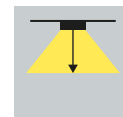
Area



Downlight



Backlight



Low Bay



Office

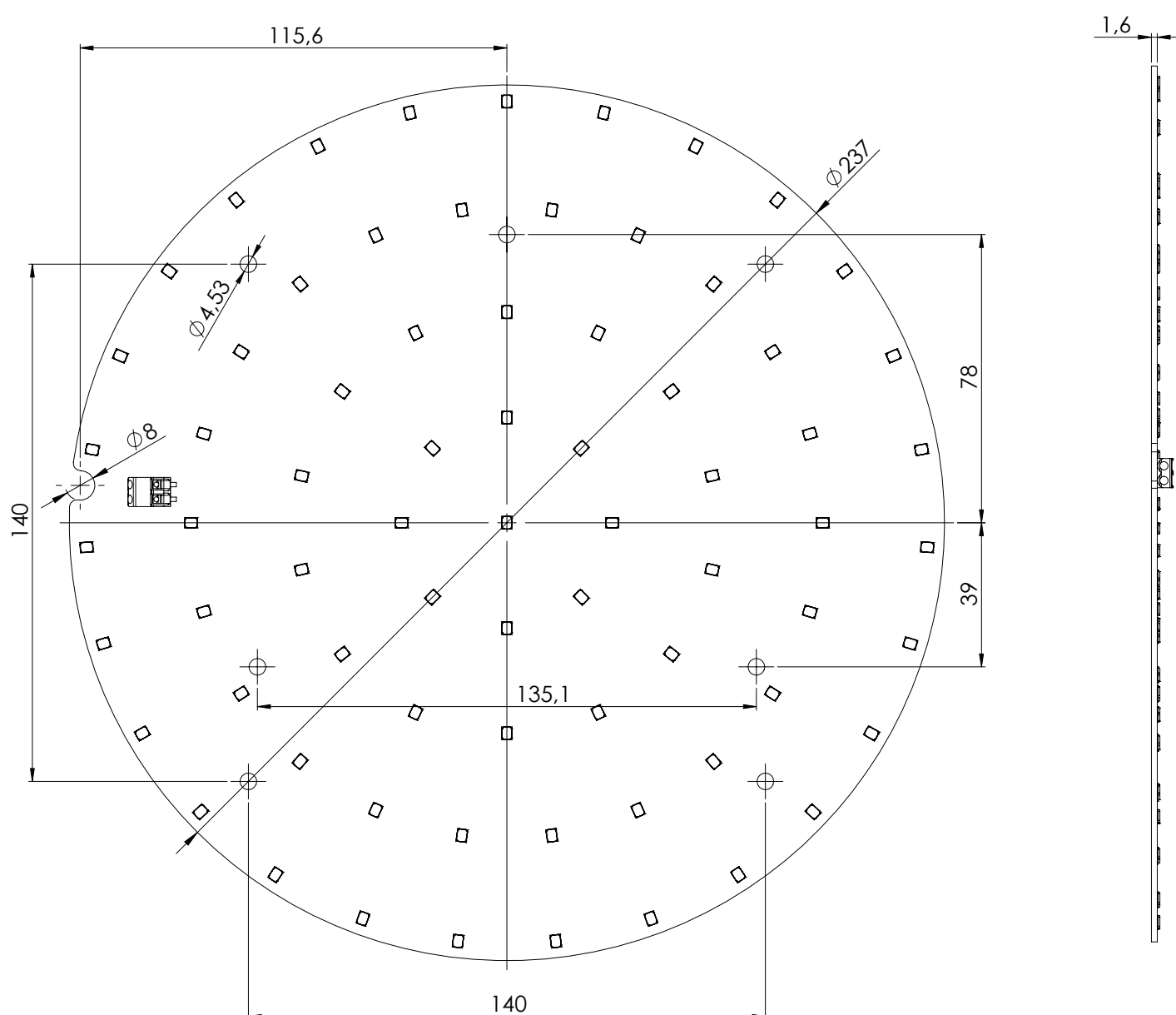
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4366013080	3000K	80	350	33,54	11,74	1843	157	D A ↑ G
			700	36,24	25,37	3917	155	D A ↑ G
R4366014080	4000K		350	33,54	11,74	1958	167	D A ↑ G
			700	36,24	25,37	4162	164	D A ↑ G
R4366015080	5000K		350	33,54	11,74	2074	177	C A ↑ G
			700	36,24	25,37	4406	174	C A ↑ G



FlatMAX

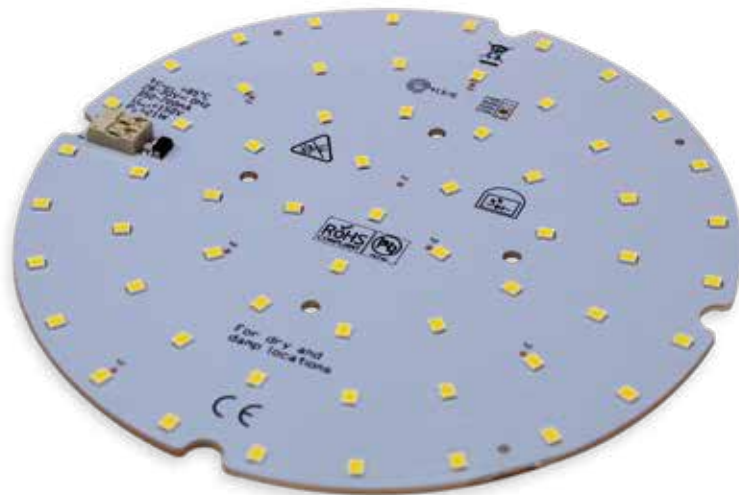
Round module, 72 mid-power LEDs | R4366

Mechanical drawing



FlatMAX

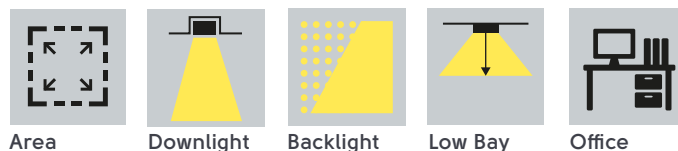
Round module, 60 mid-power LEDs | R4413



Features

- PCB diameter: 145mm;
- Up to 3672 lm;
- Up to 181 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 250V;
- Lifetime >60000h @ 500mA.

Applications



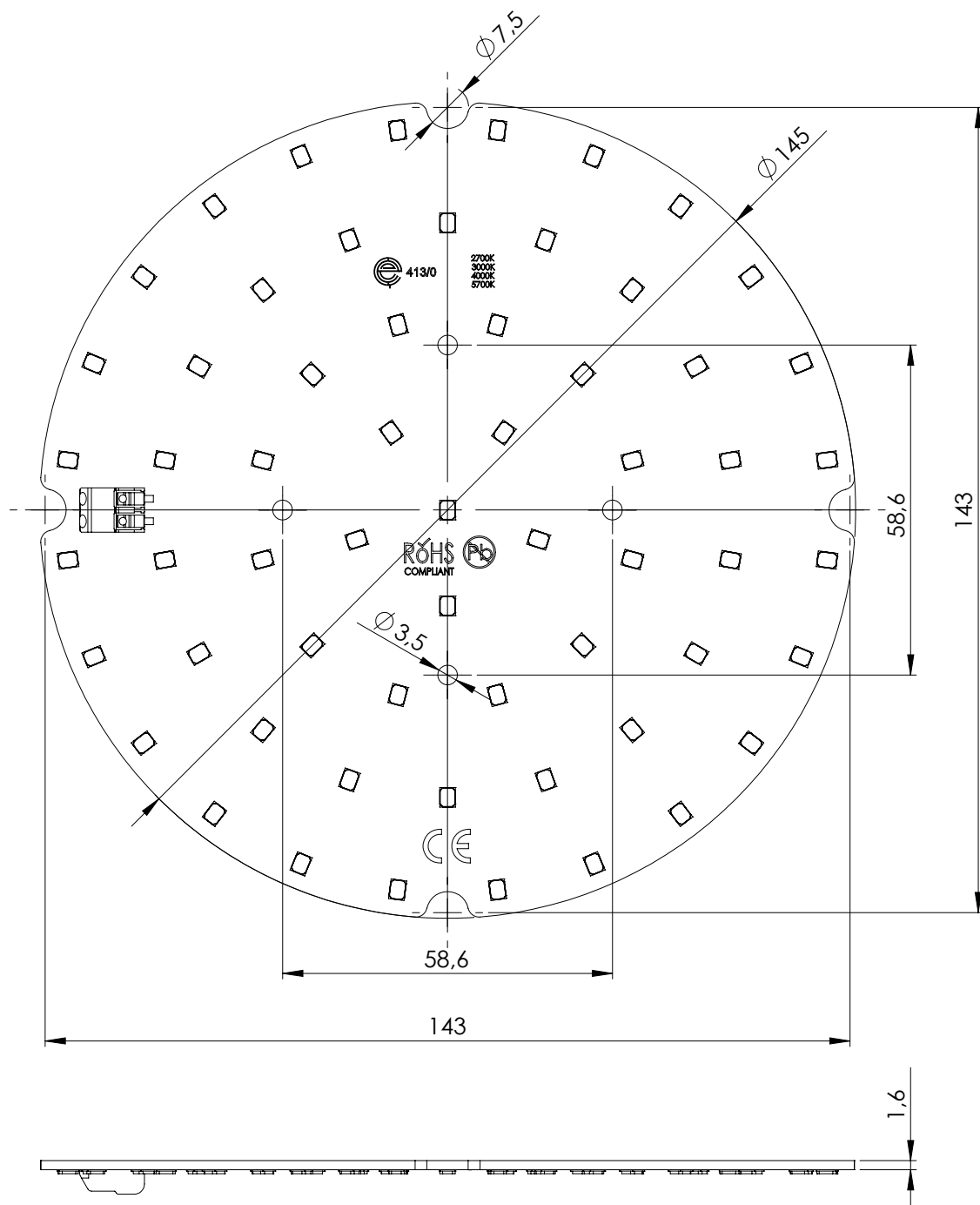
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4413013080	3000K	80	350	27,95	9,57	1536	161	
			700	30,22	21,15	3264	154	
R4413014080	4000K		350	27,95	9,57	1632	171	
			700	30,22	21,15	3468	164	
R4413015080	5000K		350	27,95	9,57	1728	181	
			700	30,22	21,15	3672	174	



FlatMAX

Round module, 60 mid-power LEDs | R4413

Mechanical drawing



FlatMAX

50mm module, 32 LEDs, 24Vdc | R4884



Features

- PCB diameter: 50mm;
- Up to 1497 lm;
- Up to 178 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 250V;
- Connection type: AVX 70-9296;
- Lifetime >72000h @ 55°C 240mA;
- CC version available on request.

Applications



Indoor



Commercial



Decorative



Architectural

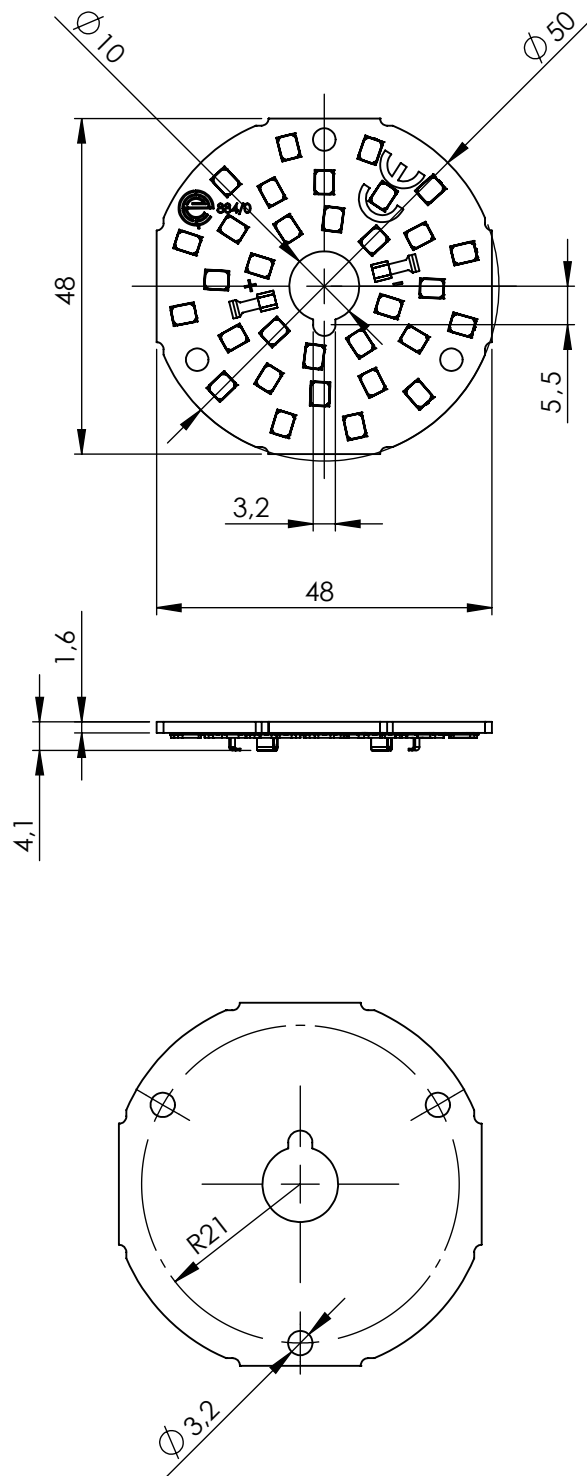
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4884013080	3000K	80	350	24	8,4	1420	169	D A↑G
R4884014080	4000K					C A↑G		
R4884015080	5000K					C A↑G		
R4884013090	3000K	90				1200	143	E A↑G
R4884014090	4000K					1261	150	D A↑G
R4884015090	5000K					1261	150	D A↑G



FlatMAX

50mm module, 32 LEDs, 24Vdc | R4884

Mechanical drawing



FlatMAX

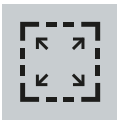
90mm module, 32 LEDs | R4982



Features

- PCB diameter: 90mm;
- Up to 2312 lm;
- Up to 171 lm/W;
- CRI 80, 90, 98;
- Connection type: ADELS 0.2-0.75mm;
- Lifetime > 60000h @ 700mA;
- 24V CV version available on request.

Applications



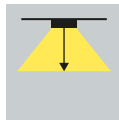
Area



Downlight



Backlight



Low Bay



Office

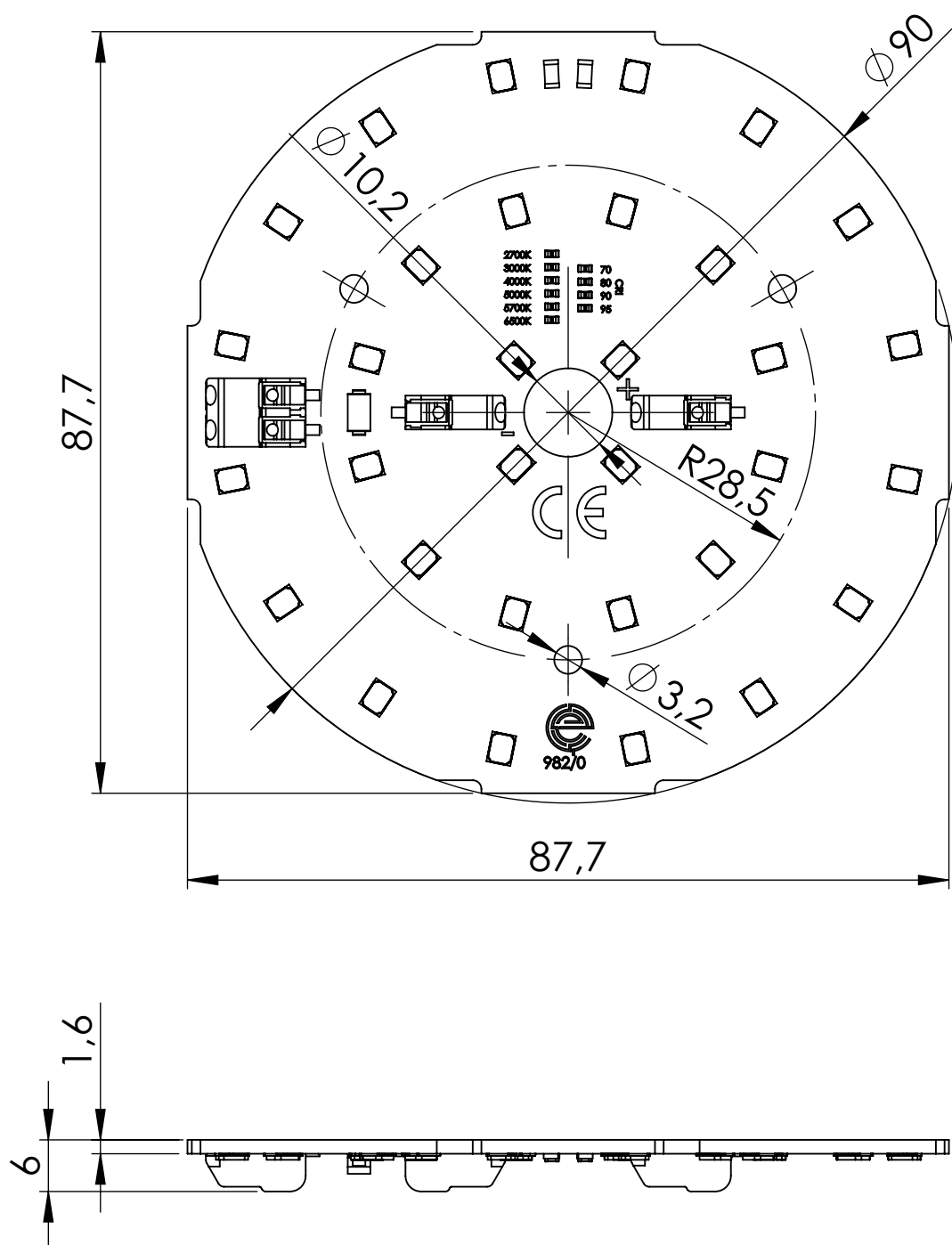
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R2982013080	3000K	80	350	22,5	7,9	1347	171	D A↑G
			700	23,9	16,7	2217	133	E A↑G
R4982014080	4000K		350	22,5	7,9	1261	160	D A↑G
			700	23,9	16,7	2312	138	E A↑G
R4982015080	5000K		350	22,5	7,9	1261	160	D A↑G
			700	23,9	16,7	2312	138	E A↑G



FlatMAX

90mm module, 32 LEDs | R4982

Mechanical drawing



FlatMAX

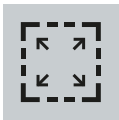
120mm module, 65 LEDs | R4981



Features

- PCB diameter: 120mm;
- Up to 4472 lm;
- Up to 177 lm/W;
- CRI 80, 90 98;
- Connection type: Wago 2059;
- Lifetime > 60000h @ 700mA;
- 24V CV version available on request.

Applications



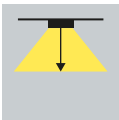
Area



Downlight



Backlight



Low Bay



Office

Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4981013080	3000K	80	350	36,2	12,6	2093	166	
			700	37,7	26,4	4186	158	
R4981014080	4000K		350	36,2	12,6	2234	177	
			700	37,7	26,4	4472	169	
R4981015080	5000K		350	36,2	12,6	2184	173	
			700	37,7	26,4	4369	165	



120mm module, 65 LEDs | R4981

Technical drawing of a circular lighting fixture, showing a top view and a side view.

Top View Dimensions:

- Overall diameter: 114
- Inner circle diameter: 102
- Radius from center to outer ring: R43,6
- Distance from center to outer ring edge: 120 (diagonal)
- Distance from center to inner ring edge: 51 (diagonal)
- Distance from center to outer ring edge: 43,6 (diagonal)
- Distance from center to inner ring edge: 10,2 (diagonal)
- Distance from center to outer ring edge: 4,2 (diagonal)

Side View Dimensions:

- Overall height: 4,3
- Mounting bracket height: 1,6

FlatMAX

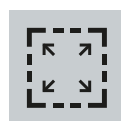
Circle ring module, 210 LEDs | R4465



Features

- PCB dimension:
 - 247mm Ext. Diam.
 - 207mm Int. Diam.
- Up to 3610 lm;
- Up to 192 lm/W;
- CRI 70, 80, 90;
- Max Electrical Insulation 150V;
- Lifetime > Q80(6K) > 60000h @ 61mA.

Applications



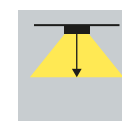
Area



Downlight



Backlight



Low Bay



Office

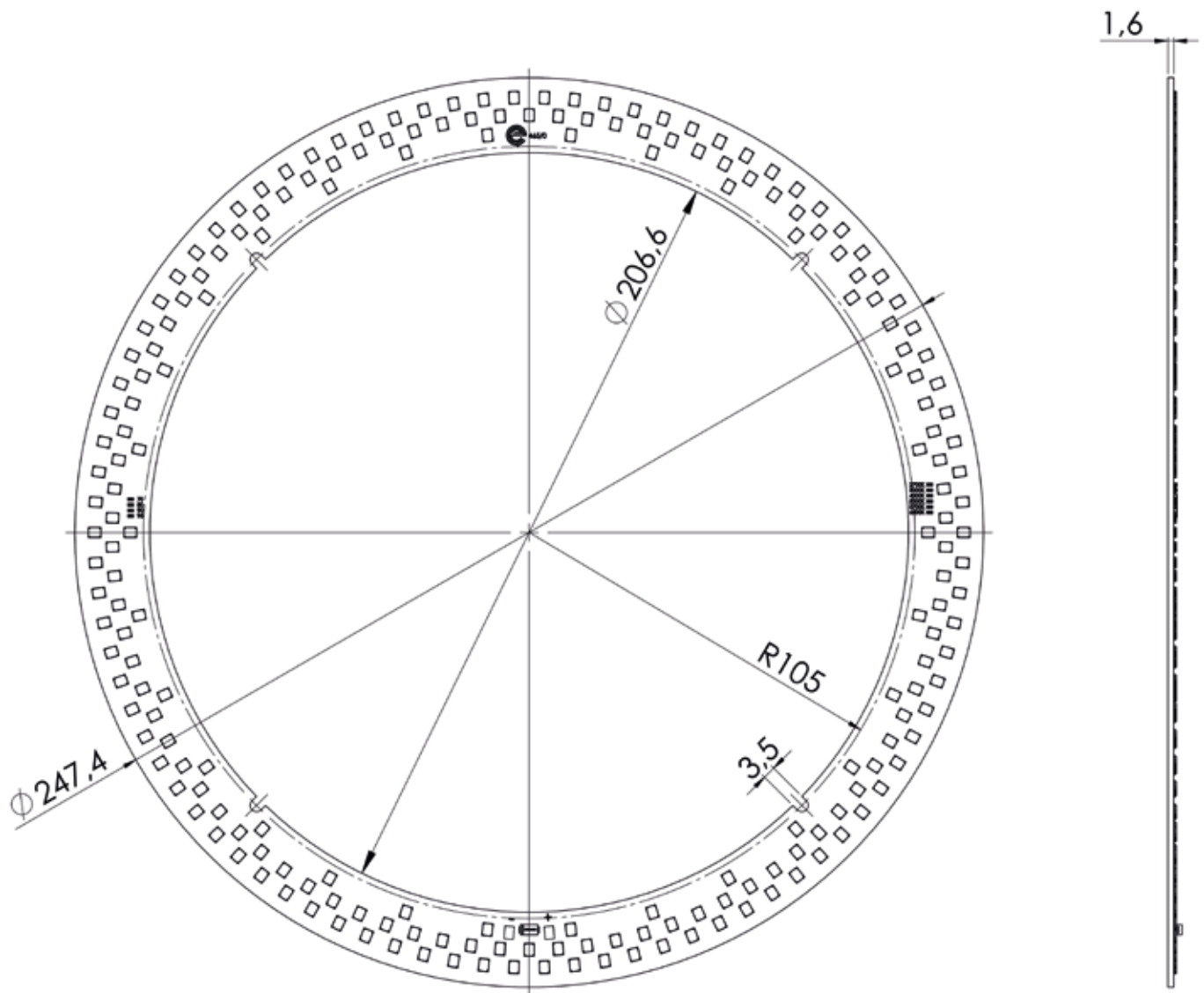
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4465213080	3000K	80	500	26,9	13,4	2461	184	
			700	27,1	19	3462	182	
R4465214080	4000K		500	26,9	13,4	2566	192	
			700	27,1	19	3610	190	
R4465125080	5000K		500	26,9	13,4	2566	192	
			700	27,1	19	3610	190	



FlatMAX

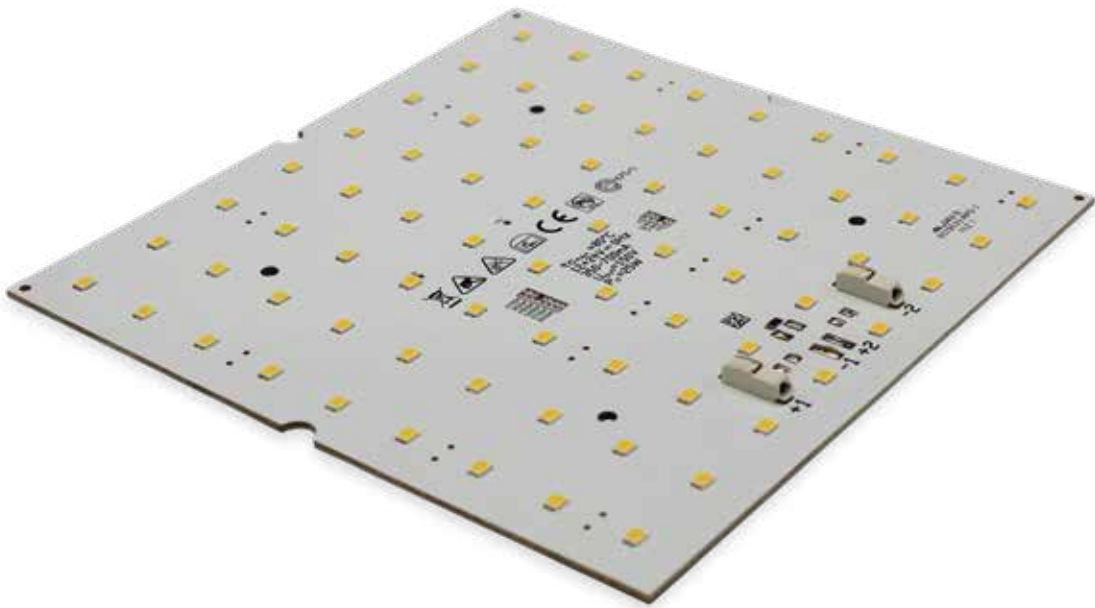
Circle ring module, 210 LEDs | R4465

Mechanical drawing



FlatMAX

Square LED module, 145x145mm, 72 LEDs | R4675



Features

- PCB dimension: 145x145mm;
- Up to 2498 lm;
- Up to 148 lm/W;
- CRI 80, 90;
- Max Electrical Insulation 150V;
- Max 6 LED boards in series;
- NTC available on request;
- Connection type: Wago 2060-451/998-404;
- Lifetime >60000h @ 500mA;
- TW version available on request.

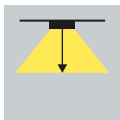
Applications



Indoor



Downlight



Low Bay



Office

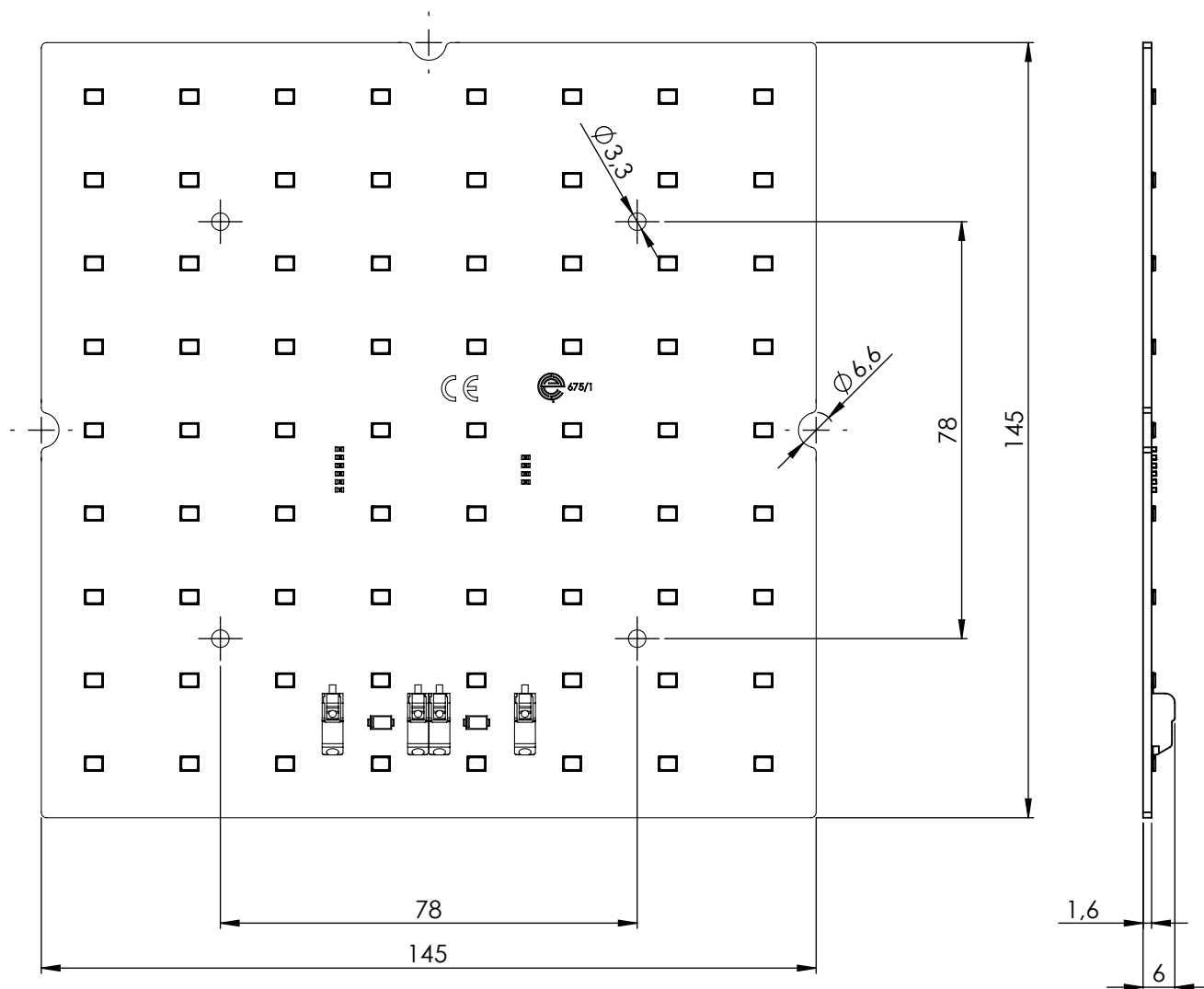
Code	CCT	CRI	Current [mA]	Voltage [V]	Power [W]	Total Lumen [lm]	lm/W	Energy Efficiency
R4675013090	3000K	90	500	33,7	16,85	2383	141	
R4675014090	4000K			33,7	16,85	2498	148	



FlatMAX

Square LED module, 145x145mm, 72 LEDs | R4675

Mechanical drawing

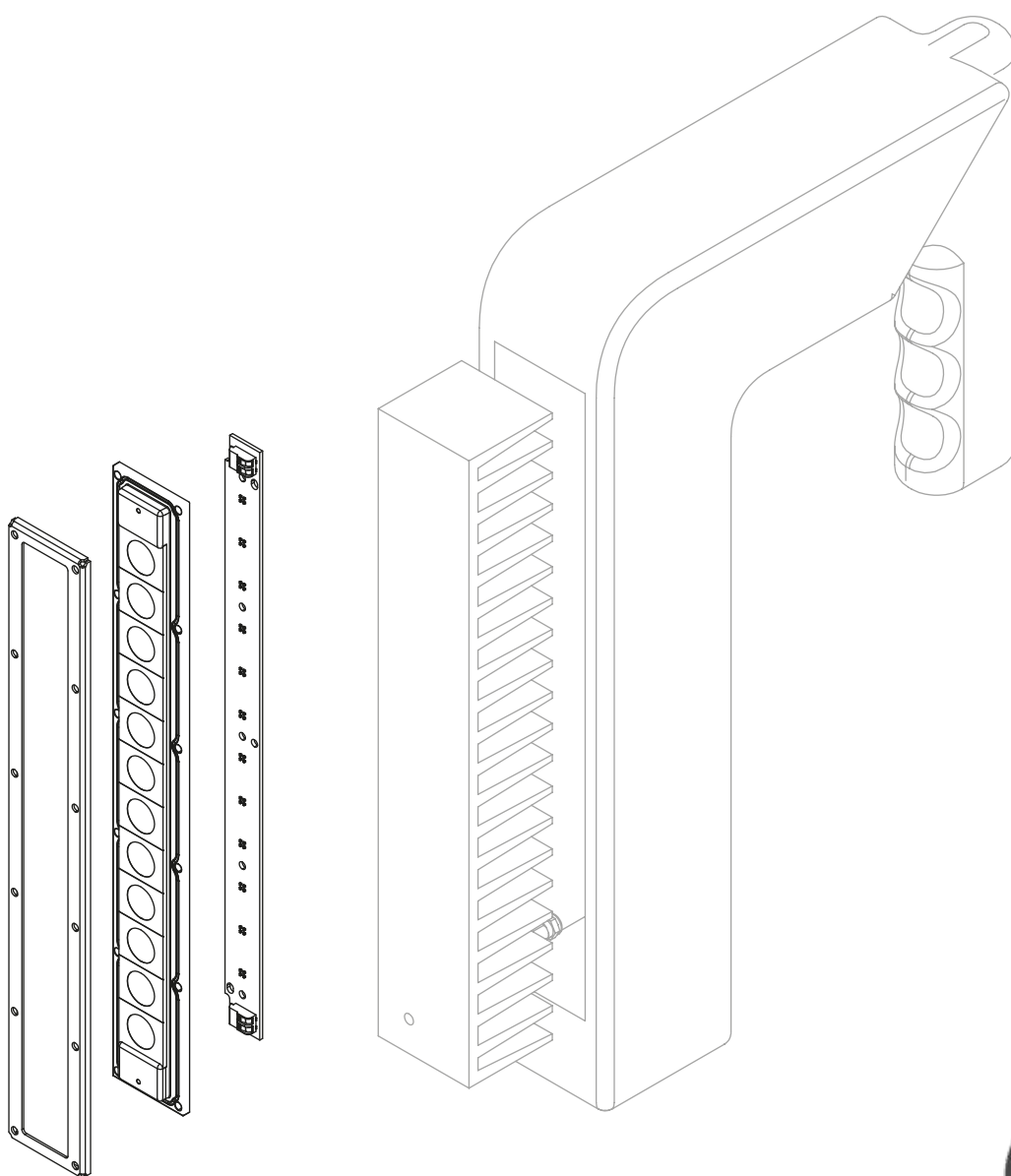


Serena Collection
By Codega
Tunable White/UV-C solution



Special**RED**

UV lighting solutions



SpecialRED

35mm spot module, 275nm UVC LED | R5645



Features

- Wavelength: 275nm;
- PCB diameter: 35mm;
- Up to 150 mW Radiant Flux;
- Max Electrical Insulation 250V;
- Connection type: WAGO 2059 series 1 pole;
- Lifetime >20000h typ.

Applications



Safety advices

Some LED UV products emit ultraviolet light (<400nm).
Don't look at operating LEDs.
Eye injury may result. Use necessary skin and eyes protection.
Assume IEC62471 Risk Group 3.



Code	Power class	Vf LED	Current [mA]	Power [W]	Radiant Flux [mW]
R564500UVC01GB	GB-PA	6,2	100	0,62	10
R564500UVC01GT	GT-PA		150	0,93	20
R564500UVC01GM	GM-PA		250	1,55	35
R564500UVC01GZ	GZ		350	2,17	50
R564500UVC01GH	GH-PA		600	4,02	150

35mm spot module, 275nm UVC LED | R5645

[illegible]

The graph displays the spectral power distribution of a tungsten-halogen lamp. The x-axis represents the wavelength in nanometers (nm), ranging from 250 to 350 nm. The y-axis represents the relative radiant flux in percent (%), ranging from 0% to 120%. The curve shows a broad peak centered around 275 nm, reaching a maximum relative radiant flux of 100%.

Wavelength (nm)	Relative Radiant Flux (%)
250	0
260	0
270	40
275	100
280	60
290	10
300	0
310	0
320	0
330	0
340	0
350	0

SpecialRED

UVC linear LED module for Violet lens | R5723



Features

- PCB dimension: 280x20mm;
- Up to 800mW;
- Peak Wavelength 270-280nm
308/310/325nm UVB available on request;
- CC & CV solution;
- Connection type: 2060;
- Long life referred to the operation condition;
- LED Indicator module on;
- Customizable current/power.

Applications



Safety advices

Some LED UV products emit ultraviolet light (<400nm).
Don't look at operating LEDs.
Eye injury may result. Use necessary skin and eyes protection.
Assume IEC62471 Risk Group 3.



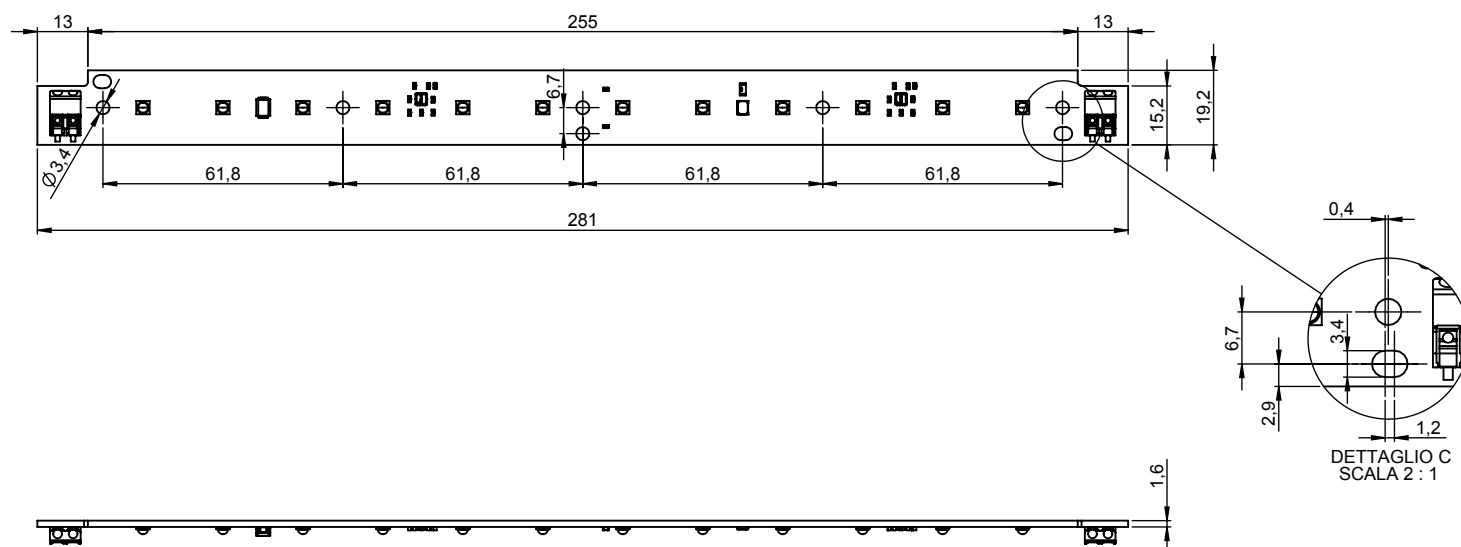
Code	Power class	Vf LED	LED Current [mA]	Voltage [V]	Power [W]	LED Radiant Flux [mW]	Radiant Flux [mW]
R572300UVC01GB	GB-PA	6,2	100 (x4)	24V - CV	9,6	10	120
				18,6V - CC	7,4		
R572300UVC01GT	GT-PA		150 (x4)	24V - CV	14,4	20	250
				18,6V - CC	11,1		
R572300UVC01GM	GM-PA		250 (x4)	24V - CV	24	35	400
				18,6V - CC	18,5		
R572300UVC01GZ	GZ		350 (x4)	24V - CV	33,6	50	560
				18,6V - CC	25,9		



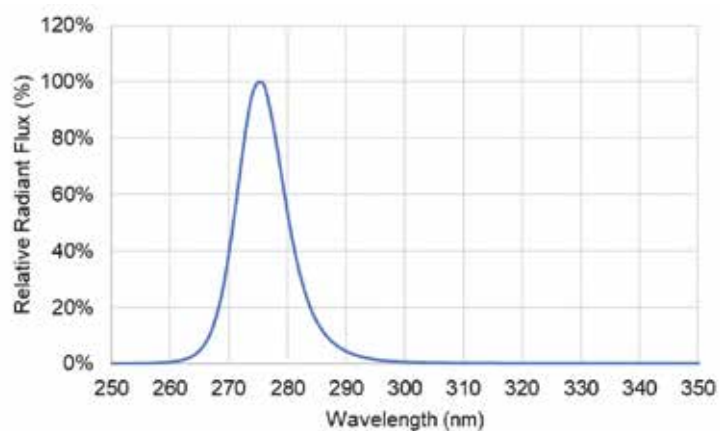
SpecialRED

UVC linear LED module for Violet lens | R5723

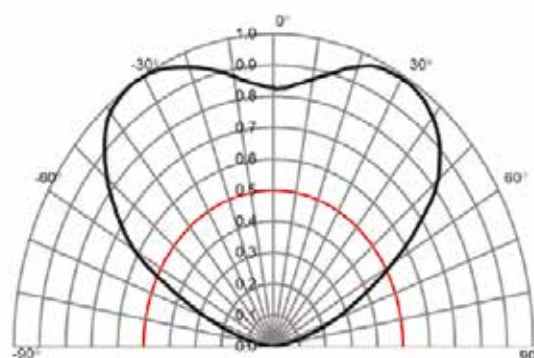
Mechanical drawing



Relative spectral distribution



Radiation characteristics



Accessories



SpecialRED

200x15mm module, 3 UVC LEDs + 2 blue LEDs | R5804



Features

- PCB dimension: 200x15mm;
- Up to 150mW on request;
- Peak Wavelength 275nm;
- Connection type: Wago 2060 series 2 poles;
- Both CC and CV versions available;
- LED blue indicator module on;
- Customizable current/power;
- Lifetime: please refer to the operation condition.

Applications



Safety advices

Some LED UV products emit ultraviolet light (<400nm).
Don't look at operating LEDs.
Eye injury may result. Use necessary skin and eyes protection.
Assume IEC62471 Risk Group 3.



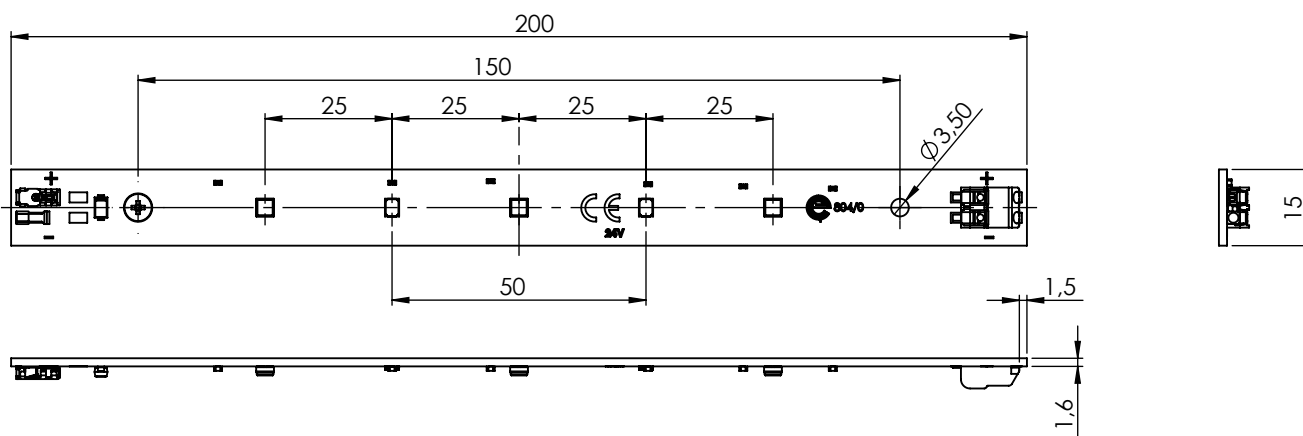
Code	Power class	Vf LED	Current [mA]	Voltage [V]	Power [W]	LED Radiant Flux [mW]	Radiant Flux [mW]
R580401UVC01GC/GB-PA	GB-PA	6,7	100	24 - CV	2,4	10÷12	30÷36
				22,50V - CC (option)	2,25		
R580401UVC01GR/GT-PA	GT-PA	6,4	100	24 - CV	2,4	10÷12	30÷36
				22,20V - CC (option)	2,2		
R580401UVC02GR/GT-PA	GM-PA	6,5	150	24 - CV	3,6	19÷22	57÷66
				22,50V - CC (option)	3,4		



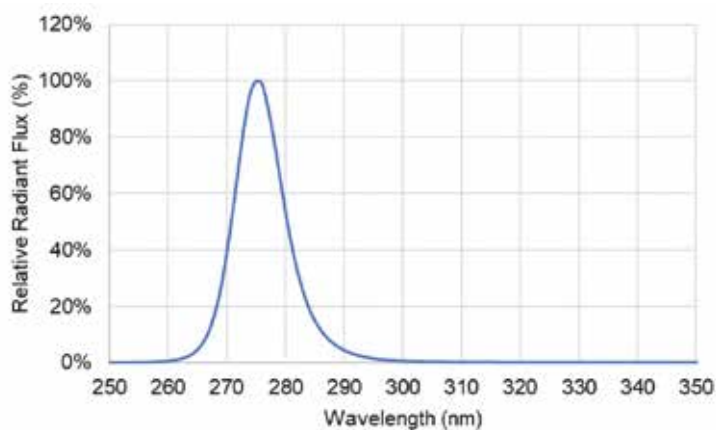
SpecialRED

200x15mm module, 3 UVC LEDs + 2 blue LEDs | R5804

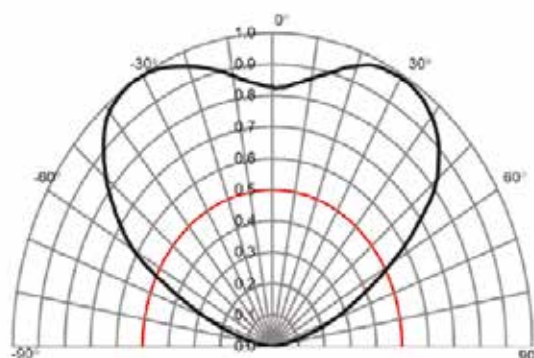
Mechanical drawing



Relative spectral distribution



Radiation characteristics



SpecialRED

400x15mm module, 6 UVC LEDs + 4 blue LEDs | R5847



Features

- PCB dimension: 400x15mm;
- Up to 150mW on request;
- Peak Wavelength 275nm;
- Connection type: AVX 2060 series 70-9296;
- Both CC and CV versions available;
- LED indicator module on;
- Customizable current/power;
- Lifetime: please refer to the operation condition.

Applications



Safety advices

Some LED UV products emit ultraviolet light (<400nm).
Don't look at operating LEDs.
Eye injury may result. Use necessary skin and eyes protection.
Assume IEC62471 Risk Group 3.



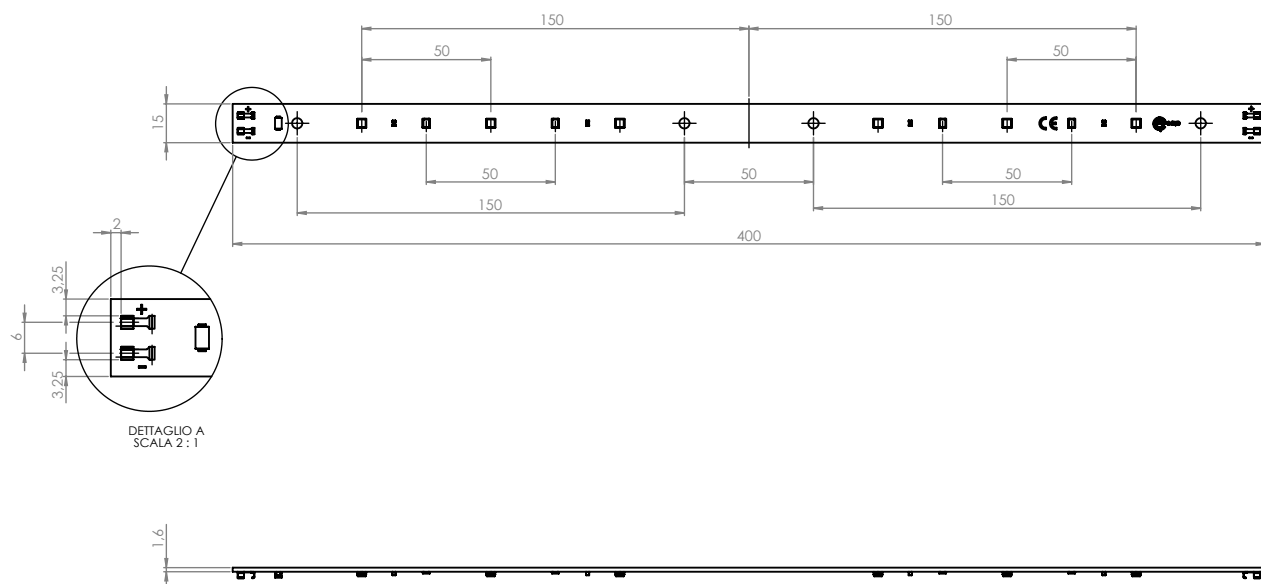
Code	Power class	Vf LED	Current [mA]	Voltage [V]	Power [W]	LED Radiant Flux [mW]	Radiant Flux [mW]
R584701UVC01GC/GB-PA	GB-PA	6,7	200	24 - CV	4,8	10÷12	60÷72
				22,50V - CC (option)	4,5		
R584701UVC01GR/GT-PA	GT-PA	6,4	200	24 - CV	4,8	10÷12	60÷72
				22,20V - CC (option)	4,4		
R584701UVC02GR/GT-PA	GT-PA	6,5	300	24 - CV	7,2	19÷22	114÷132
				22,50V - CC (option)	6,8		



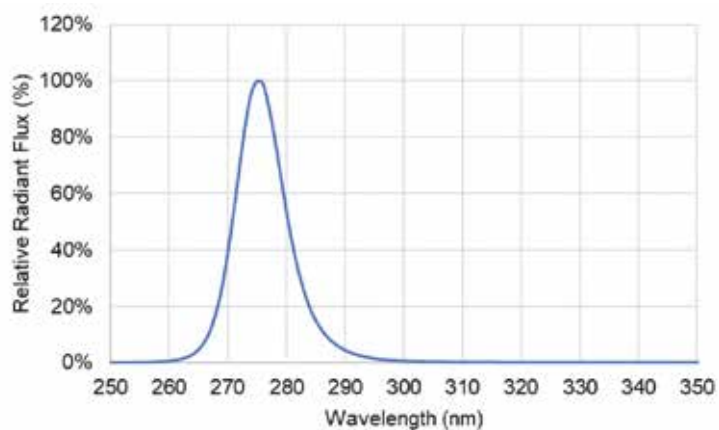
SpecialRED

400x15mm module, 6 UVC LEDs + 4 blue LEDs | R5847

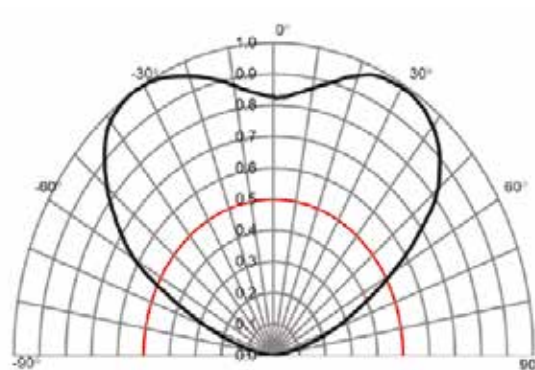
Mechanical drawing



Relative spectral distribution



Radiation characteristics



SpecialRED

275nm±5 24Vdc UVC LED strip



Features

- Available options;
 - 12 LED/m – PCB 8mm
 - 30 LED/m – PCB 8mm
- 24 Vdc;
- Wavelength: 275nm ±5;
- Lifetime >15,000 hrs 60%;
- Top 45°C max;
- IP20;
- Up to 240mW/m UVC.

Applications



Safety advices

Some LED UV products emit ultraviolet light (<400nm).
Don't look at operating LEDs.
Eye injury may result. Use necessary skin and eyes protection.
Assume IEC62471 Risk Group 3.



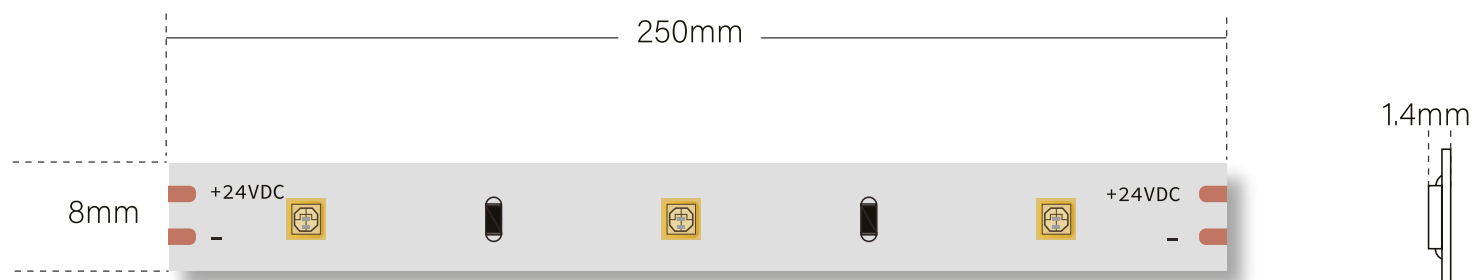
Code	Wavelength	Voltage [V]	LED/m	LED	Power/m [W]	mW/m	mW/LED
U7UVC04BF250N0	275nm	24Vdc	12	URP	3,8	30	2mW
U7UVC11GF250N0			30		11	75	
U7UVC06BF250N0			12	URT	6	96	8mW
U7UVC15GF250N0			30		15	240	
Customization option available	275nm + special wavelength						



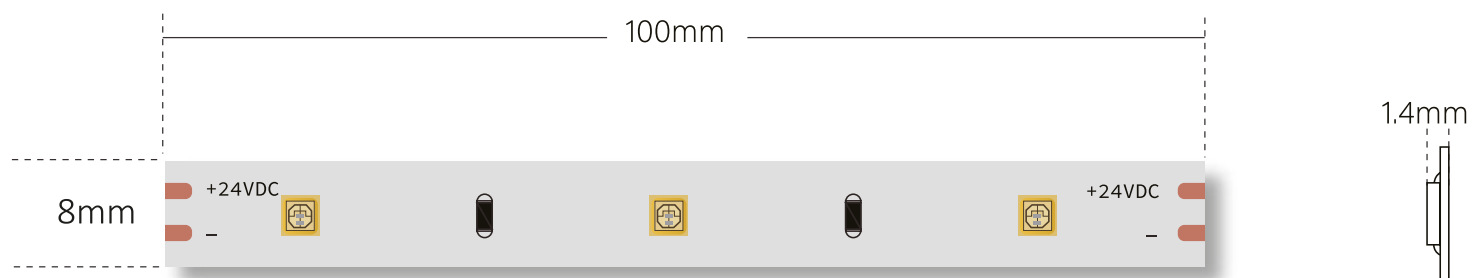
SpecialRED

275nm $\pm$ 5 24Vdc UVC LED strip

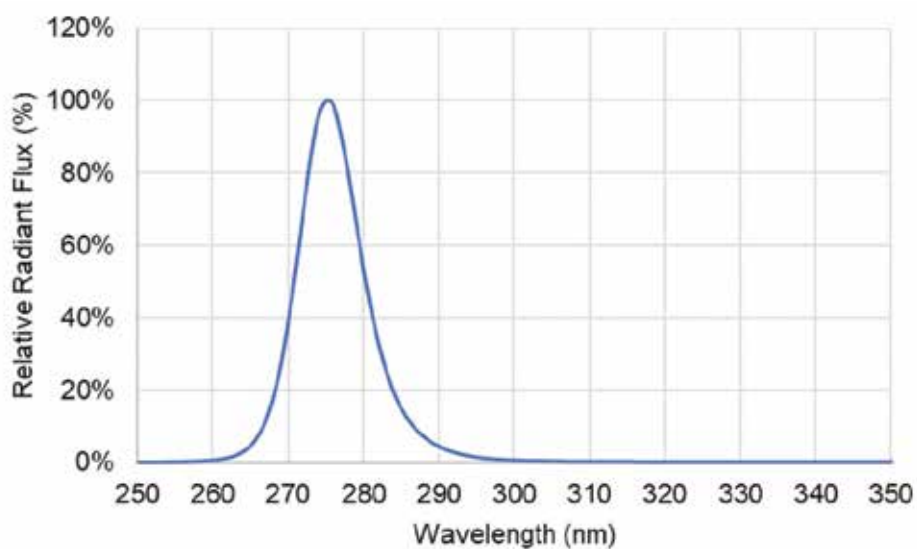
Drawing - 12 LED/m



Drawing - 30 LED/m



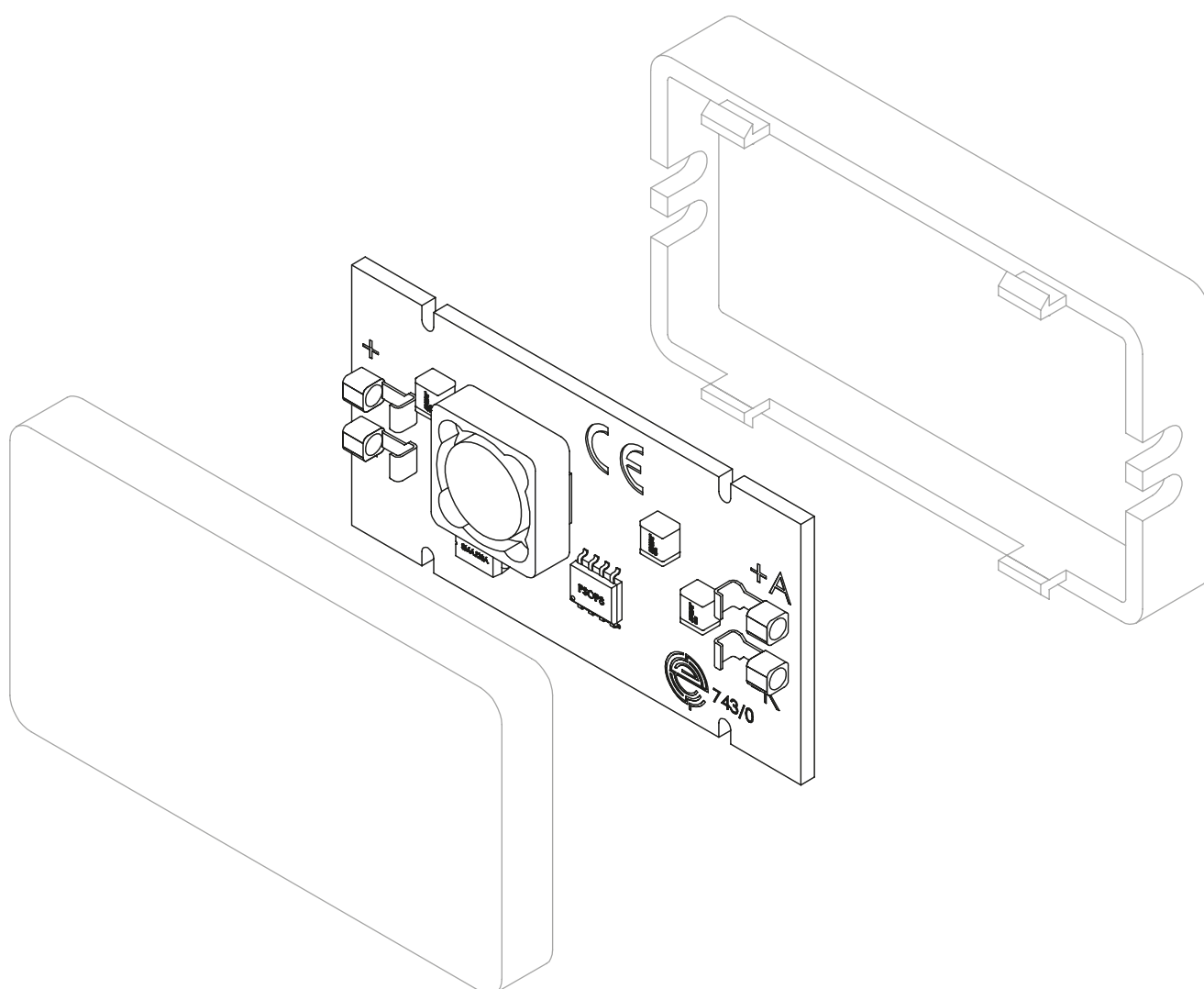
Relative spectral distribution





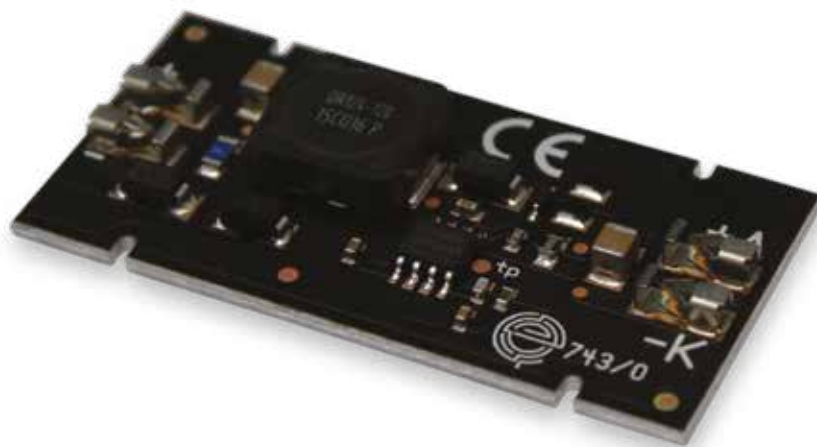
Special**RED**

Driver modules



SpecialRED

Step-up converter | R5743



Features

- PCB dimension: 53x27mm;
- Step up converter with an adjustable current capability;
- Input: 20V to 28V;
- Output: 31V to 36V@ Vin 24Vdc;
- PWM dimming;
- Protected from polarity inversion;
- Open circuit protection;
- Voltage surge protection;
- Use only in dry environments.

Board features

Material	MCPCB
Solder	Black
Connections	
Cable	Optional
Connector	AVX 70-9296 2.5mm Poke
Conditions	
Max. temp. (Tc)	90°C
Operating temp. Range	-40°C to +85°C

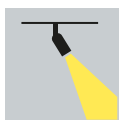
Applications



Indoor



Commercial



Spotlight

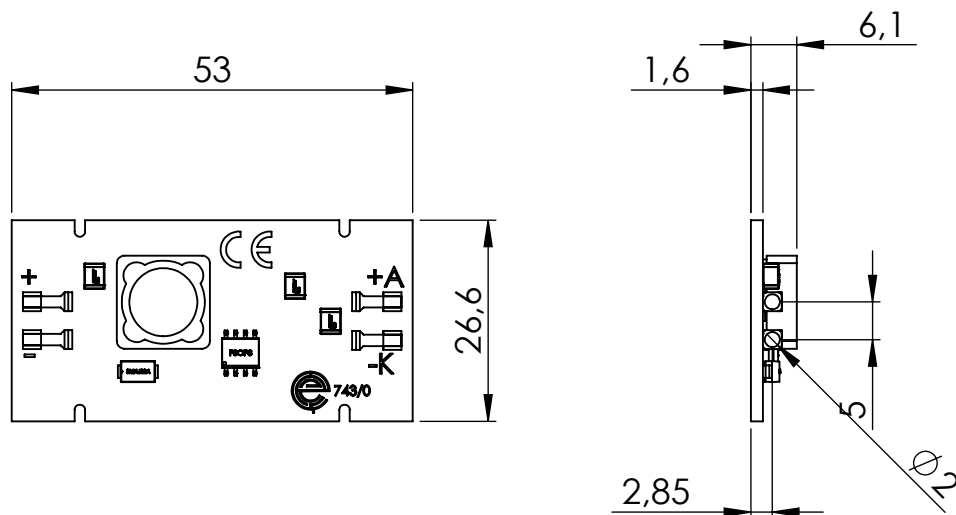
Code	Power Supply [Vdc]	Output current [mA]	Power output [W]	Dimension [mm]
R574300DRIV100	20-28	1400	50,4 @24Vdc	53x26,6x6,1mm



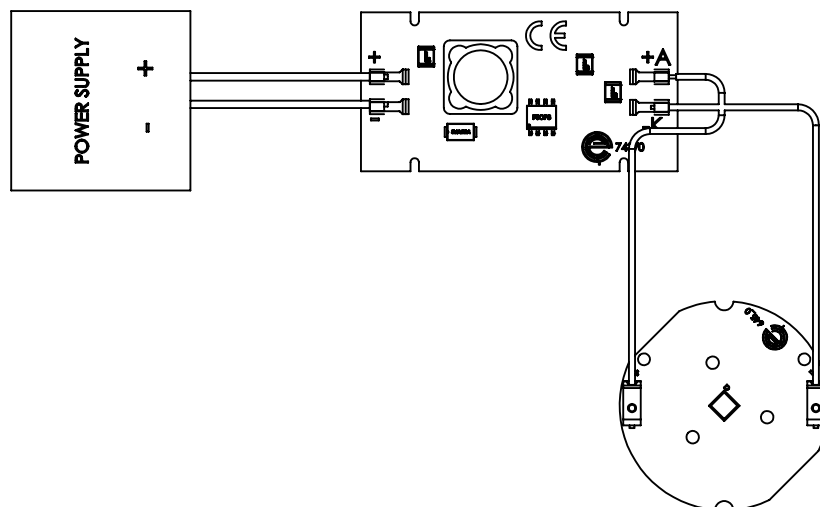
SpecialRED

Step-up converter | R5743

Mechanical drawing



Wiring diagram

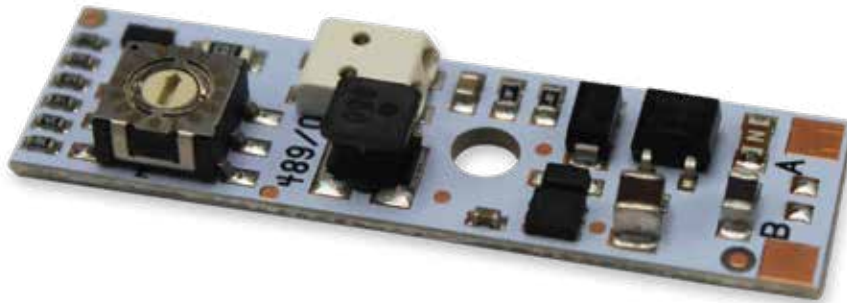


Product kit



SpecialRED

Programmable and dimmable LED driver for Stucchi track adapters | R5489



Features

- PCB dimension: 48x14mm;
- Compatible with low voltage electrified rails, Multisystem Stucchi series or similar versions;
- Step-down converter;
- Programmable current output @150/900mA;
- Input voltage: 19V to 51V;
- Output voltage: min 6.5V;
- PWM dimming;
- WAGO 2059 series 2 pole;
- Protected against voltage peaks and short circuit;
- Use only in dry environments.

Board features

Material	Aluminum
Solder	White
Connections	
Cable	Optional
Connector	Wago 2059 series 2 Pole
Conditions	
Max. temp. (Tc)	90°C
Operating temp. Range	-40°C to +85°C

Applications



Indoor



Commercial



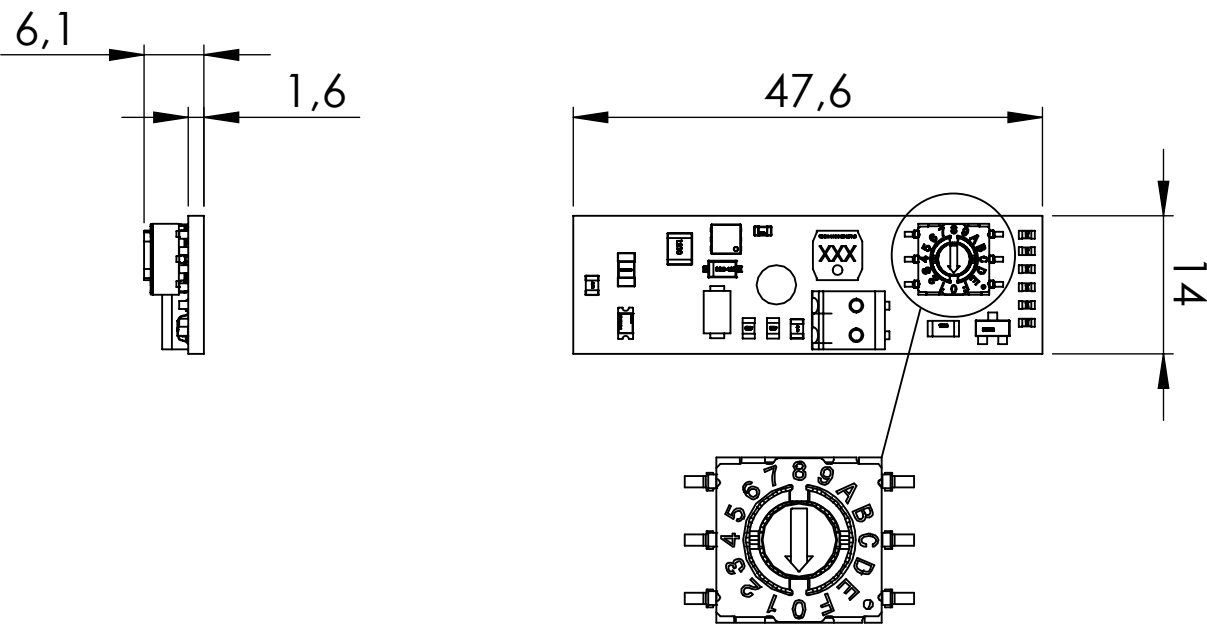
Spotlight

Code	Power Supply [Vdc]	Output current [mA]	Power output [W]	Dimension [mm]
R548911DRV1100	24-48	150-900	0,97-43,2	47,6x14x6,1mm
R548911DRV1101	24-48	350	8,4-16,8	

SpecialRED

Programmable and dimmable LED driver for Stucchi track adapters | R5489

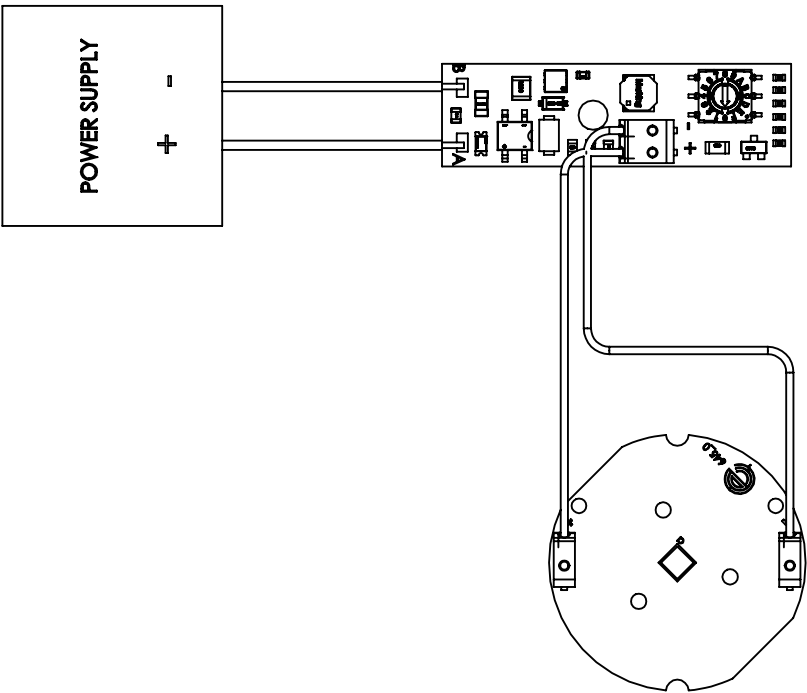
Mechanical drawing



Output current configuration

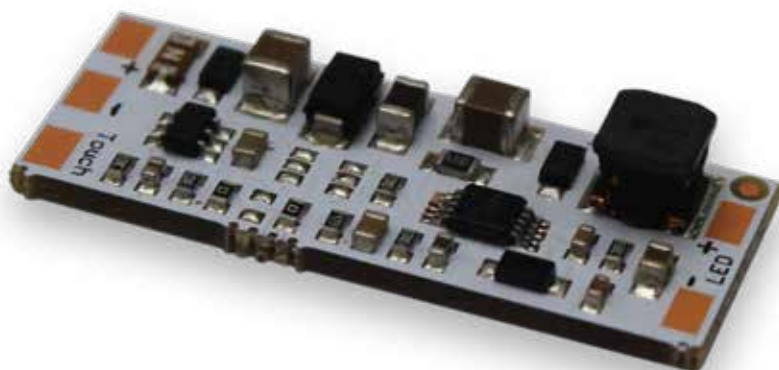
Position Selector	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Current (mA)	150	250	300	370	450	500	550	600	700	750	770	800	830	860	870	900

Wiring diagram



SpecialRED

Touch control dimmer | R5695



Features

- PCB dimension: 35x18,5mm;
- Dimmable touch drive;
- Input voltage: 24Vdc;
- Output: 12Vdc@0,5A;
- Other current set available on request;
- Protection against reverse polarity and overvoltage.

Board features

Material	FR4
Solder	White
Conditions	
Max. temp. (Tc)	90°C
Operating temp. Range	-40°C to +85°C

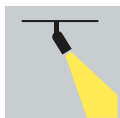
Applications



Indoor



Commercial



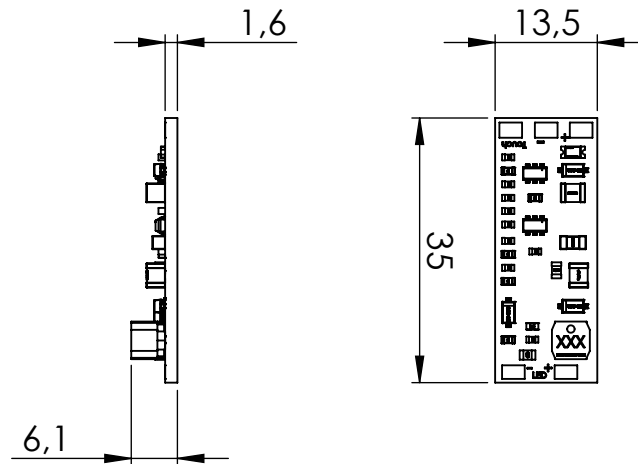
Spotlight

Code	Power Supply [Vdc]	Output current [mA]	Power output [W]	Dimension [mm]
R569510DRIV100	24	500	6	35x13,5x6,1

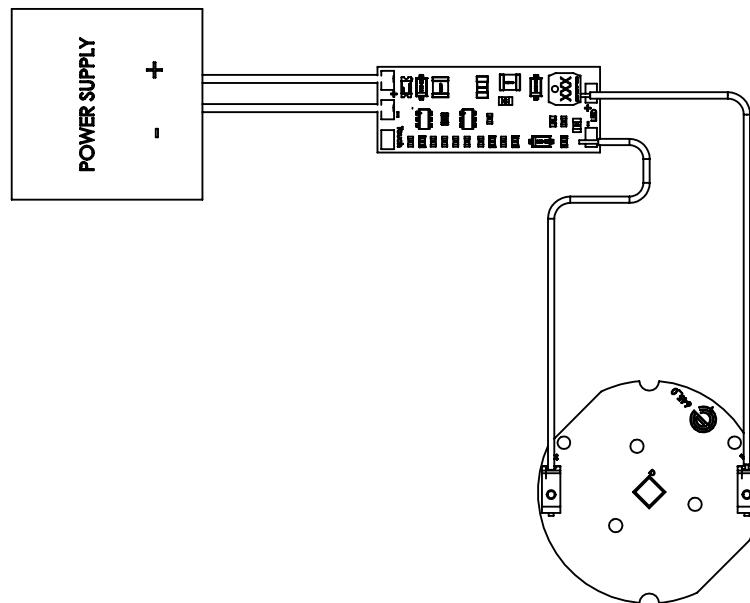
SpecialRED

Touch control dimmer | R5695

Mechanical drawing



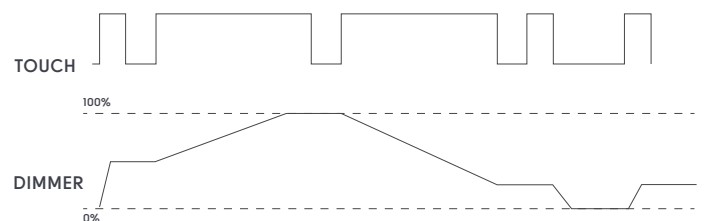
Wiring diagram



Operation

- From off: immediate touch ignition with a fade in; extending the touch, the brightness gradually increases until the dimmer is released or 100%.
- From on: alternating extended touches, the brightness increases or decreases from 100% to 10%.
- From on: at the release of a short touch, the luminaire turns off with a fade out.
- Turning the luminaire back on resets the same brightness level as when it was last turned off.

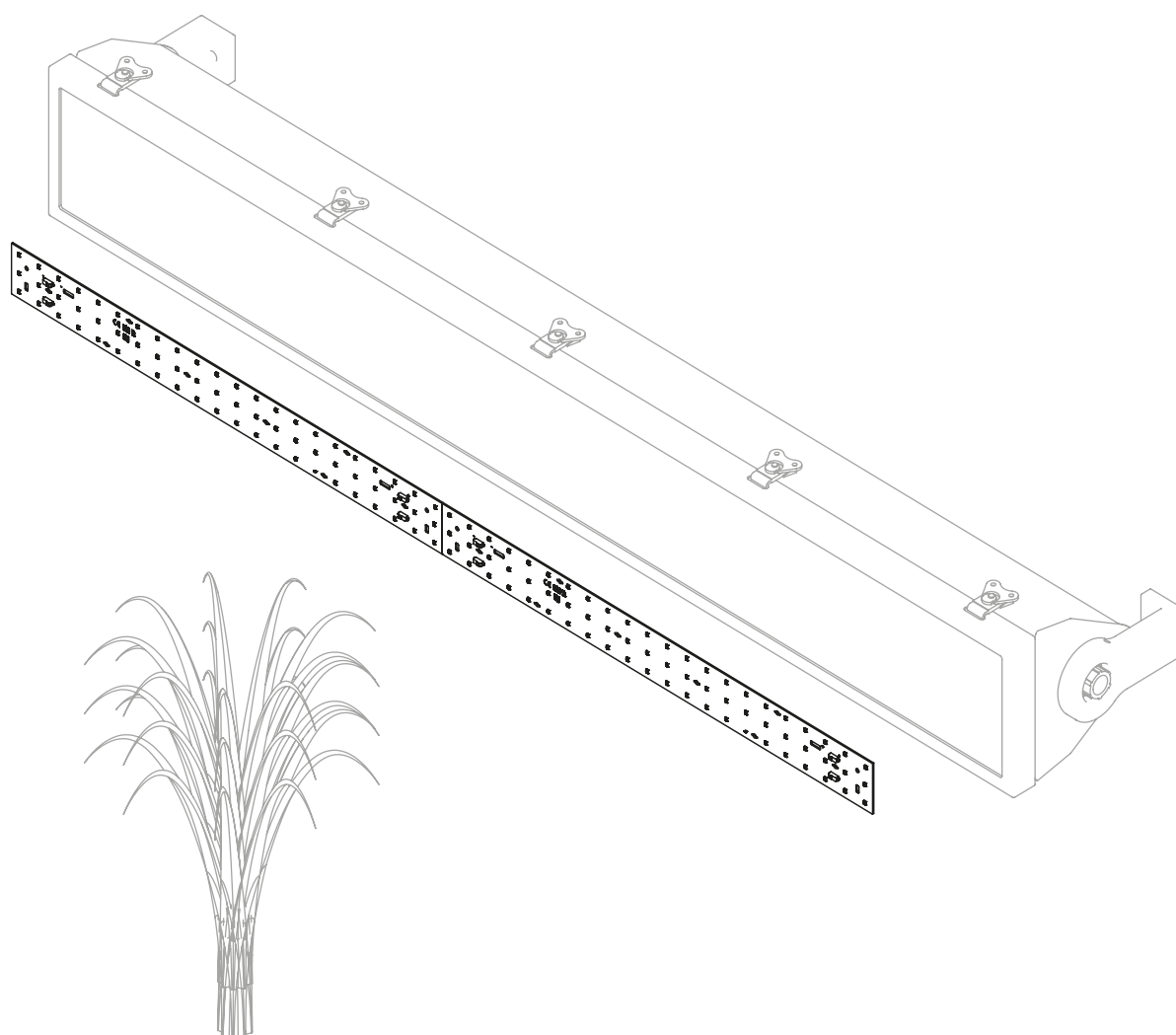
Operation diagram





Special**RED**

Horticulture lighting solutions



SpecialRED

LED module for horticulture lighting | R5276



Features

- PCB dimension: 232x110mm;
- Mid-Power LED platform;
- 3 + 1 channels;
- Max Electrical Insulation 250V cascadable;
- Connection type: Molex S-Poke 4mm 2pole;
- Lifetime >60000h.

Applications



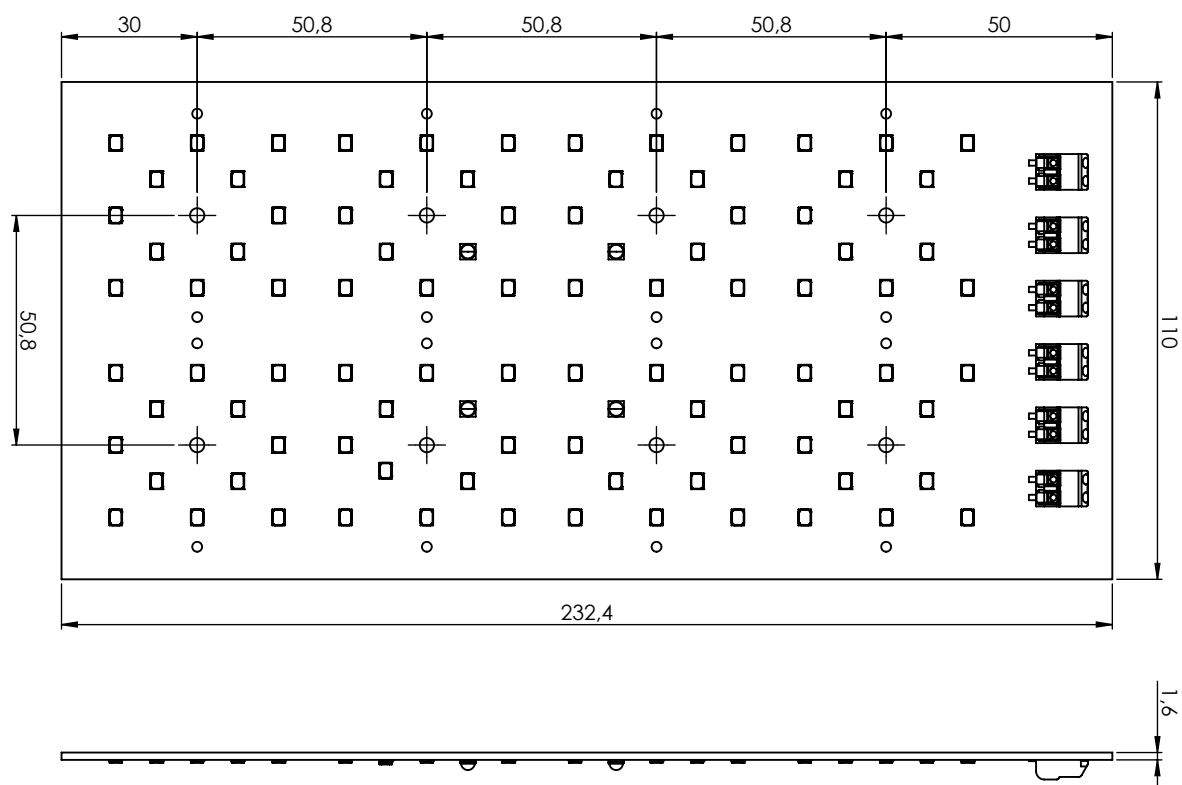
Code	LED	LED qty	IF (mA) LED	VF [V]	Id set	Color-Peak wavelengthλp (nm)	Typ. PPF (μ mole/s)	Total PPF (μ mole/s)
R527601HORT	4000K	20	150	24	300mA s8p2	-	0,78	16
	Blue	16		16	600mA s5p4	450	0,78	12
	Hyper Red/ Deep Red	54		20	900mA s9p6	660	0,72	39
	LED options							
	UVA 3535 Power	0	700	3,2	-	420	na	0
	Far Red/Cherry RED	0	150	2,2	-	740	0,30	0
	Lime	0	150	3,2	-	-	0,90	0
	Blue 5%	0	150	3,2	-	-	0,59	0
	Blue 10%	0	150	3,2	-	-	0,72	0
	Blue 15%	0	150	3,2	-	-	0,73	0
	Blue 20%	0	150	3,2	-	-	0,74	0
	Blue 30%	0	150	3,2	-	-	0,76	0



SpecialRED

LED module for horticulture lighting | R5276

Mechanical drawing



Accessories



Lenses

Part number	Beam angle
LL12ZZ-CRC10L19	10°
LL12ZZ-CRC25L19	25°
LL12ZZ-CRC55L19	55°
LL12ZZ-CRC90L19	90°
LL12ZZ-CRC40I35L19 (Type I-Short)	40° x 135°
LL12ZZ-CRC45I45L19 (Type II-Short)	45° x 145°
LL12ZZ-CRC45I55L19 (Type II-Medium)	45° x 155°
LL12ZZ-CRC60I45L19 (Type III-Short)	60° x 145°
LL12ZZ-CRC60I45L19 (Type III-Short)	60° x 155°
LL12ZZ-CRC75I40L19 (Type IV-Short)	75° x 140°
LL12ZZ-CRC150L19	150°

RED MODULES ONLINE CATALOGUE

A quick and easy way to explore RED products from anywhere in the world.

You can find it at www.redilt.it



- Pagine di prodotto complete di:
 - immagini ad alta risoluzione (modulo, disegno meccanico, accessori);
 - principali caratteristiche;
 - datasheet, file 2D e 3D scaricabili.
- Prodotti aggiornati in tempo reale.
- Informazioni sui prodotti accessibili con pochi click.
- Interfaccia responsive per un miglioramento della customer experience.
- Possibilità di ricerca per codice prodotto o keyword.
- Filtri per dimensione e per range di corrente e di potenza.

- Product pages complete with:
 - high resolution pictures (module, mechanical drawing, accessories);
 - main features;
 - downloadable datasheet, 2D and 3D files.
- Real-time products updates.
- Products information accessible in just a few clicks.
- Responsive user interface for a better customer experience.
- Possibility of searching by product reference or keywords.
- Size, current and power ranges filters available.

PRODUCT NOMENCLATURE

CATALOGUE CODE

R 0 229 0 0 57 80 2 00



product
family

project number

PCB
material

PCB
colour

CCT

CRI

PCB
version

Led Board
setup

LED type

PRODUCT GROUP

- 0 LightMAX
- 1 LineMAX
- 2 DecoMAX
- 3 DotMAX
- 4 FlatMAX
- 5 SpecialRED

PCB MATERIAL

- 0 Aluminium
- 1 FR4
- 2 CEM-3

PCB COLOUR

- 0 Black
- 1 White
- 2 Grey

LED TYPES

- UV (UVA/UVB/UVC)
- RGBW
- White

RED – Integrating Lighting Technologies is a registered trademark

Universal Science S.r.l. sole-shareholder company

Company under the management and supervision of Red Systems S.r.l. sole-shareholder company

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV

ISO 9001

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