



艾笛森光電股份有限公司
Edison Opto Corporation

A Solid-State Lighting Premium Expert

www.edison-opto.com.tw

High Efficacy LED linear Module (LW) Series

Datasheet



Product description

- Ideal for linear and panel lights
- 2 terminals for serial wiring
- Perfectly uniform light, even if several LED modules are used
- Push in for quick and simple wiring of LED module to LED module
- Broad portfolio from extruded lenses and covers available
- Long lifetime: L70B50 > 72,000 hours
- 5 years guarantee
- ZHAGA compliant

Optical properties

- Full color temperature
- High color consistency (MacAdam 3)
- High color rendering index CRI(Ra) > 80
- Small luminous flux tolerances

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Optical and Electrical Characteristics

Operating mode at CCT 2700K

Module part no.	Photo-metric code	Flux (lm) @Tc 25	Flux (lm) @Tc life	Forward Current (mA)	Typ Voltage @ Tc 25	Typ Voltage @ Tc life	Typ Power @ Tc 25	Typ Power @ Tc life	Typ lm/W @Tc25	Typ lm/W @Tc life	CRI (Ra)
5T03X827L0030013	827/359	108	103	200	2.72	2.69	0.54	0.54	198	191	80
	827/359	133	127	250	2.74	2.71	0.69	0.68	193	187	80
	827/359	146	139	275	2.76	2.73	0.76	0.75	192	185	80
	827/359	156.5	149	300	2.77	2.74	0.83	0.82	188	182	80
	827/359	182.5	174	350	2.79	2.76	0.98	0.97	187	180	80
	827/359	207	197	400	2.81	2.78	1.12	1.11	184	177	80
	827/359	256	244	500	2.87	2.84	1.44	1.42	178	172	80
5T03X827L0060013	827/359	215	205	200	5.44	5.38	1.09	1.08	198	191	80
	827/359	265	253	250	5.48	5.42	1.37	1.36	193	187	80
	827/359	291	278	275	5.52	5.46	1.52	1.50	192	185	80
	827/359	313	299	300	5.54	5.48	1.66	1.65	188	182	80
	827/359	365	349	350	5.58	5.52	1.95	1.93	187	180	80
	827/359	413	394	400	5.62	5.56	2.25	2.23	184	177	80
	827/359	512	489	500	5.74	5.68	2.87	2.84	178	172	80
5T03X827L0120013	827/359	430	411	200	10.88	10.77	2.18	2.15	198	191	80
	827/359	530	506	250	10.96	10.85	2.74	2.71	193	187	80
	827/359	582	556	275	11.04	10.93	3.04	3.01	192	185	80
	827/359	626	598	300	11.08	10.97	3.32	3.29	188	182	80
	827/359	730	697	350	11.16	11.05	3.91	3.87	187	180	80
	827/359	826	789	400	11.24	11.13	4.50	4.45	184	177	80
	827/359	1024	978	500	11.48	11.37	5.74	5.68	178	172	80
5T03X827L0240013	827/359	860	821	200	21.76	21.54	4.35	4.31	198	191	80
	827/359	1060	1012	250	21.92	21.70	5.48	5.42	193	187	80
	827/359	1164	1112	275	22.08	21.86	6.07	6.01	192	185	80
	827/359	1252	1196	300	22.16	21.94	6.65	6.58	188	182	80
	827/359	1460	1394	350	22.32	22.10	7.81	7.73	187	180	80
	827/359	1652	1578	400	22.48	22.26	8.99	8.90	184	177	80
	827/359	2048	1956	500	22.96	22.74	11.48	11.37	178	172	80

Note:

1. Measurement precision $\pm 10\%$ for the flux data and $\pm 10\%$ for the efficacy data.
2. Measurement precision for CRI(Ra) ± 2
3. Luminous flux doesn't include secondary optics

Operating mode at CCT 3000K

Module part no.	Photo-metric code	Flux (lm) @Tc 25	Flux (lm) @Tc life	Forward Current (mA)	Typ Voltage @ Tc 25	Typ Voltage @ Tc life	Typ Power @Tc 25	Typ Power @Tc life	Typ lm/W @Tc25	Typ lm/W @Tc life	CRI (Ra)
5T03X830L0030013	830/359	110	105	200	2.72	2.69	0.54	0.54	202	195	80
	830/359	136	130	250	2.74	2.71	0.69	0.68	199	192	80
	830/359	150	143	275	2.76	2.73	0.76	0.75	198	191	80
	830/359	161	154	300	2.77	2.74	0.83	0.82	194	187	80
	830/359	187	179	350	2.79	2.76	0.98	0.97	192	185	80
	830/359	212	202	400	2.81	2.78	1.12	1.11	188	182	80
	830/359	263	251	500	2.87	2.84	1.44	1.42	183	176	80
5T03X830L0060013	830/359	220	210	200	5.44	5.38	1.09	1.08	202	195	80
	830/359	272	260	250	5.48	5.42	1.37	1.36	199	192	80
	830/359	300	287	275	5.52	5.46	1.52	1.50	198	191	80
	830/359	322	308	300	5.54	5.48	1.66	1.65	194	187	80
	830/359	374	357	350	5.58	5.52	1.95	1.93	192	185	80
	830/359	423	404	400	5.62	5.56	2.25	2.23	188	182	80
	830/359	525	501	500	5.74	5.68	2.87	2.84	183	176	80
5T03X830L0120013	830/359	440	420	200	10.88	10.77	2.18	2.15	202	195	80
	830/359	544	520	250	10.96	10.85	2.74	2.71	199	192	80
	830/359	600	573	275	11.04	10.93	3.04	3.01	198	191	80
	830/359	644	615	300	11.08	10.97	3.32	3.29	194	187	80
	830/359	748	714	350	11.16	11.05	3.91	3.87	192	185	80
	830/359	846	808	400	11.24	11.13	4.50	4.45	188	182	80
	830/359	1050	1003	500	11.48	11.37	5.74	5.68	183	176	80
5T03X830L0240013	830/359	880	840	200	21.76	21.54	4.35	4.31	202	195	80
	830/359	1088	1039	250	21.92	21.70	5.48	5.42	199	192	80
	830/359	1200	1146	275	22.08	21.86	6.07	6.01	198	191	80
	830/359	1288	1230	300	22.16	21.94	6.65	6.58	194	187	80
	830/359	1496	1429	350	22.32	22.10	7.81	7.73	192	185	80
	830/359	1692	1616	400	22.48	22.26	8.99	8.90	188	182	80
	830/359	2100	2006	500	22.96	22.74	11.48	11.37	183	176	80

Note:

1. Measurement precision $\pm 10\%$ for the flux data and $\pm 10\%$ for the efficacy data.
2. Measurement precision for CRI(Ra) ± 2
3. Luminous flux doesn't include secondary optics

Operating mode at CCT 4000K

Module part no.	Photo-metric code	Flux (lm) @Tc 25	Flux (lm) @Tc life	Forward Current (mA)	Typ Voltage @ Tc 25	Typ Voltage @ Tc life	Typ Power @Tc 25	Typ Power @Tc life	Typ lm/W @Tc25	Typ lm/W @Tc life	CRI (Ra)
5T03X840L0030013	840/359	117	111	200	2.72	2.69	0.54	0.54	214	207	80
	840/359	144	138	250	2.74	2.71	0.69	0.68	210	203	80
	840/359	158	150	275	2.76	2.73	0.76	0.75	208	200	80
	840/359	169	161	300	2.77	2.74	0.83	0.82	203	196	80
	840/359	196	187	350	2.79	2.76	0.98	0.97	201	194	80
	840/359	224	214	400	2.81	2.78	1.12	1.11	199	192	80
	840/359	277	265	500	2.87	2.84	1.44	1.42	193	186	80
5T03X840L0060013	840/359	233	223	200	5.44	5.38	1.09	1.08	214	207	80
	840/359	288	275	250	5.48	5.42	1.37	1.36	210	203	80
	840/359	315	301	275	5.52	5.46	1.52	1.50	208	200	80
	840/359	338	323	300	5.54	5.48	1.66	1.65	203	196	80
	840/359	392	374	350	5.58	5.52	1.95	1.93	201	194	80
	840/359	448	428	400	5.62	5.56	2.25	2.23	199	192	80
	840/359	554	529	500	5.74	5.68	2.87	2.84	193	186	80
5T03X840L0120013	840/359	466	445	200	10.88	10.77	2.18	2.15	214	207	80
	840/359	576	550	250	10.96	10.85	2.74	2.71	210	203	80
	840/359	630	602	275	11.04	10.93	3.04	3.01	208	200	80
	840/359	676	646	300	11.08	10.97	3.32	3.29	203	196	80
	840/359	784	749	350	11.16	11.05	3.91	3.87	201	194	80
	840/359	896	856	400	11.24	11.13	4.50	4.45	199	192	80
	840/359	1108	1058	500	11.48	11.37	5.74	5.68	193	186	80
5T03X840L0240013	840/359	932	890	200	21.76	21.54	4.35	4.31	214	207	80
	840/359	1152	1100	250	21.92	21.70	5.48	5.42	210	203	80
	840/359	1260	1203	275	22.08	21.86	6.07	6.01	208	200	80
	840/359	1350	1289	300	22.16	21.94	6.65	6.58	203	196	80
	840/359	1568	1497	350	22.32	22.10	7.81	7.73	201	194	80
	840/359	1792	1711	400	22.48	22.26	8.99	8.90	199	192	80
	840/359	2216	2116	500	22.96	22.74	11.48	11.37	193	186	80

Note:

1. Measurement precision $\pm 10\%$ for the flux data and $\pm 10\%$ for the efficacy data.
2. Measurement precision for CRI(Ra) ± 2
3. Luminous flux doesn't include secondary optics

Operating mode at CCT 5000K

Module part no.	Photo-metric code	Flux (lm) @Tc 25	Flux (lm) @Tc life	Forward Current (mA)	Typ Voltage @ Tc 25	Typ Voltage @ Tc life	Typ Power @Tc 25	Typ Power @Tc life	Typ lm/W @Tc25	Typ lm/W @Tc life	CRI (Ra)
5T03X850L0030013	850/359	115	110	200	2.72	2.69	0.54	0.54	211	204	80
	850/359	143	136	250	2.74	2.71	0.69	0.68	208	201	80
	850/359	157	149	275	2.76	2.73	0.76	0.75	206	199	80
	850/359	168	160	300	2.77	2.74	0.83	0.82	202	195	80
	850/359	196	187	350	2.79	2.76	0.98	0.97	201	194	80
	850/359	221	211	400	2.81	2.78	1.12	1.11	197	190	80
	850/359	278	265	500	2.87	2.84	1.44	1.42	194	187	80
5T03X850L0060013	850/359	230	220	200	5.44	5.38	1.09	1.08	211	204	80
	850/359	285	272	250	5.48	5.42	1.37	1.36	208	201	80
	850/359	313	299	275	5.52	5.46	1.52	1.50	206	199	80
	850/359	336	321	300	5.54	5.48	1.66	1.65	202	195	80
	850/359	392	374	350	5.58	5.52	1.95	1.93	201	194	80
	850/359	442	422	400	5.62	5.56	2.25	2.23	197	190	80
	850/359	556	531	500	5.74	5.68	2.87	2.84	194	187	80
5T03X850L0120013	850/359	460	439	200	10.88	10.77	2.18	2.15	211	204	80
	850/359	570	544	250	10.96	10.85	2.74	2.71	208	201	80
	850/359	626	598	275	11.04	10.93	3.04	3.01	206	199	80
	850/359	672	642	300	11.08	10.97	3.32	3.29	202	195	80
	850/359	784	749	350	11.16	11.05	3.91	3.87	201	194	80
	850/359	884	844	400	11.24	11.13	4.50	4.45	197	190	80
	850/359	1112	1062	500	11.48	11.37	5.74	5.68	194	187	80
5T03X850L0240013	850/359	920	879	200	21.76	21.54	4.35	4.31	211	204	80
	850/359	1140	1089	250	21.92	21.70	5.48	5.42	208	201	80
	850/359	1252	1196	275	22.08	21.86	6.07	6.01	206	199	80
	850/359	1344	1284	300	22.16	21.94	6.65	6.58	202	195	80
	850/359	1568	1497	350	22.32	22.10	7.81	7.73	201	194	80
	850/359	1768	1688	400	22.48	22.26	8.99	8.90	197	190	80
	850/359	2224	2124	500	22.96	22.74	11.48	11.37	194	187	80

Note:

1. Measurement precision $\pm 10\%$ for the flux data and $\pm 10\%$ for the efficacy data.
2. Measurement precision for CRI(Ra) ± 2
3. Luminous flux doesn't include secondary optics

Operating mode at CCT 5700K

Module part no.	Photo-metric code	Flux (lm) @Tc 25	Flux (lm) @Tc life	Forward Current (mA)	Typ Voltage @ Tc 25	Typ Voltage @ Tc life	Typ Power @Tc 25	Typ Power @Tc life	Typ lm/W @Tc25	Typ lm/W @Tc life	CRI (Ra)
5T03X857L0030013	857/359	113	108	200	2.72	2.69	0.54	0.54	208	200	80
	857/359	140	134	250	2.74	2.71	0.69	0.68	204	197	80
	857/359	154	147	275	2.76	2.73	0.76	0.75	203	196	80
	857/359	166	159	300	2.77	2.74	0.83	0.82	200	193	80
	857/359	192	183	350	2.79	2.76	0.98	0.97	197	190	80
	857/359	218	208	400	2.81	2.78	1.12	1.11	194	187	80
	857/359	270	258	500	2.87	2.84	1.44	1.42	188	182	80
5T03X857L0060013	857/359	226	216	200	5.44	5.38	1.09	1.08	208	200	80
	857/359	280	267	250	5.48	5.42	1.37	1.36	204	197	80
	857/359	308	294	275	5.52	5.46	1.52	1.50	203	196	80
	857/359	332	317	300	5.54	5.48	1.66	1.65	200	193	80
	857/359	384	367	350	5.58	5.52	1.95	1.93	197	190	80
	857/359	436	416	400	5.62	5.56	2.25	2.23	194	187	80
	857/359	540	516	500	5.74	5.68	2.87	2.84	188	182	80
5T03X857L0120013	857/359	452	432	200	10.88	10.77	2.18	2.15	208	200	80
	857/359	560	535	250	10.96	10.85	2.74	2.71	204	197	80
	857/359	616	588	275	11.04	10.93	3.04	3.01	203	196	80
	857/359	664	634	300	11.08	10.97	3.32	3.29	200	193	80
	857/359	768	733	350	11.16	11.05	3.91	3.87	197	190	80
	857/359	872	833	400	11.24	11.13	4.50	4.45	194	187	80
	857/359	1081	1032	500	11.48	11.37	5.74	5.68	188	182	80
5T03X857L0240013	857/359	904	863	200	21.76	21.54	4.35	4.31	208	200	80
	857/359	1120	1070	250	21.92	21.70	5.48	5.42	204	197	80
	857/359	1232	1177	275	22.08	21.86	6.07	6.01	203	196	80
	857/359	1328	1268	300	22.16	21.94	6.65	6.58	200	193	80
	857/359	1536	1467	350	22.32	22.10	7.81	7.73	197	190	80
	857/359	1744	1666	400	22.48	22.26	8.99	8.90	194	187	80
	857/359	2162	2064	500	22.96	22.74	11.48	11.37	188	182	80

Note:

1. Measurement precision $\pm 10\%$ for the flux data and $\pm 10\%$ for the efficacy data.
2. Measurement precision for CRI(Ra) ± 2
3. Luminous flux doesn't include secondary optics

Operating mode at CCT 6500K

Module part no.	Photo-metric code	Flux (lm) @Tc 25	Flux (lm) @Tc life	Forward Current (mA)	Typ Voltage @ Tc 25	Typ Voltage @ Tc life	Typ Power @Tc 25	Typ Power @Tc life	Typ lm/W @Tc25	Typ lm/W @Tc life	CRI (Ra)
5T03X865L0030013	865/359	112	107	200	2.72	2.69	0.54	0.54	206	199	80
	865/359	139	132	250	2.74	2.71	0.69	0.68	202	195	80
	865/359	152	145	275	2.76	2.73	0.76	0.75	200	193	80
	865/359	163	156	300	2.77	2.74	0.83	0.82	196	189	80
	865/359	190	181	350	2.79	2.76	0.98	0.97	195	188	80
	865/359	216	206	400	2.81	2.78	1.12	1.11	192	185	80
	865/359	267	255	500	2.87	2.84	1.44	1.42	186	179	80
5T03X865L0060013	865/359	224	214	200	5.44	5.38	1.09	1.08	206	199	80
	865/359	277	265	250	5.48	5.42	1.37	1.36	202	195	80
	865/359	304	290	275	5.52	5.46	1.52	1.50	200	193	80
	865/359	326	311	300	5.54	5.48	1.66	1.65	196	189	80
	865/359	380	363	350	5.58	5.52	1.95	1.93	195	188	80
	865/359	432	413	400	5.62	5.56	2.25	2.23	192	185	80
	865/359	534	510	500	5.74	5.68	2.87	2.84	186	179	80
5T03X865L0120013	865/359	448	428	200	10.88	10.77	2.18	2.15	206	199	80
	865/359	554	529	250	10.96	10.85	2.74	2.71	202	195	80
	865/359	608	581	275	11.04	10.93	3.04	3.01	200	193	80
	865/359	652	623	300	11.08	10.97	3.32	3.29	196	189	80
	865/359	760	726	350	11.16	11.05	3.91	3.87	195	188	80
	865/359	864	825	400	11.24	11.13	4.50	4.45	192	185	80
	865/359	1068	1020	500	11.48	11.37	5.74	5.68	186	179	80
5T03X865L0240013	865/359	896	856	200	21.76	21.54	4.35	4.31	206	199	80
	865/359	1108	1058	250	21.92	21.70	5.48	5.42	202	195	80
	865/359	1216	1161	275	22.08	21.86	6.07	6.01	200	193	80
	865/359	1304	1245	300	22.16	21.94	6.65	6.58	196	189	80
	865/359	1520	1452	350	22.32	22.10	7.81	7.73	195	188	80
	865/359	1728	1650	400	22.48	22.26	8.99	8.90	192	185	80
	865/359	2136	2040	500	22.96	22.74	11.48	11.37	186	179	80

Note:

1. Measurement precision $\pm 10\%$ for the flux data and $\pm 10\%$ for the efficacy data.
2. Measurement precision for CRI(Ra) ± 2
3. Luminous flux doesn't include secondary optics

Module Temperature (Tc case temperature at Tc point)

Part No.	Nominal	Life	Max	Unit
5T03X8xxL0030013	--	50	85	°C
5T03X8xxL0060013	--	50	85	°C
5T03X8xxL0120013	--	50	85	°C
5T03X8xxL0240013	--	50	85	°C

Note:

Nominal value at which typical performance is specified

Life value at which life time is specified

Maximum value for safe operation, do not operate above this value

Absolute Ratings

Parameter	Min	Max	Unit
Operating Current	--	600	mA
ESD(HBM)	--	±2	KV
Case Temperature	--	85	°C
Operating ambient temperature	-40	+50	°C
Storage ambient temperature	-40	+85	°C
Storage ambient humidity	--	45	%

Note:

1. LEDs are not designed to be driven in reverse bias.

2. Both operating temperature and storage temperature are the environment temperature.

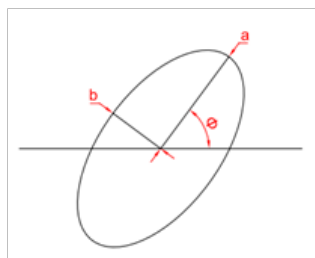
3. Maximum current = I-Max. for safety.

Standard

Item	Compliant to	Result / Remark
Certification	EN 62471	Risk Group:1
	EN 62031	Compliance
	EN 62717	Compliance
Harmful Substance & Material	RoHS	Declared
	REACH	Declared

Chromaticity Coordinates

CIE Chromaticity Diagram

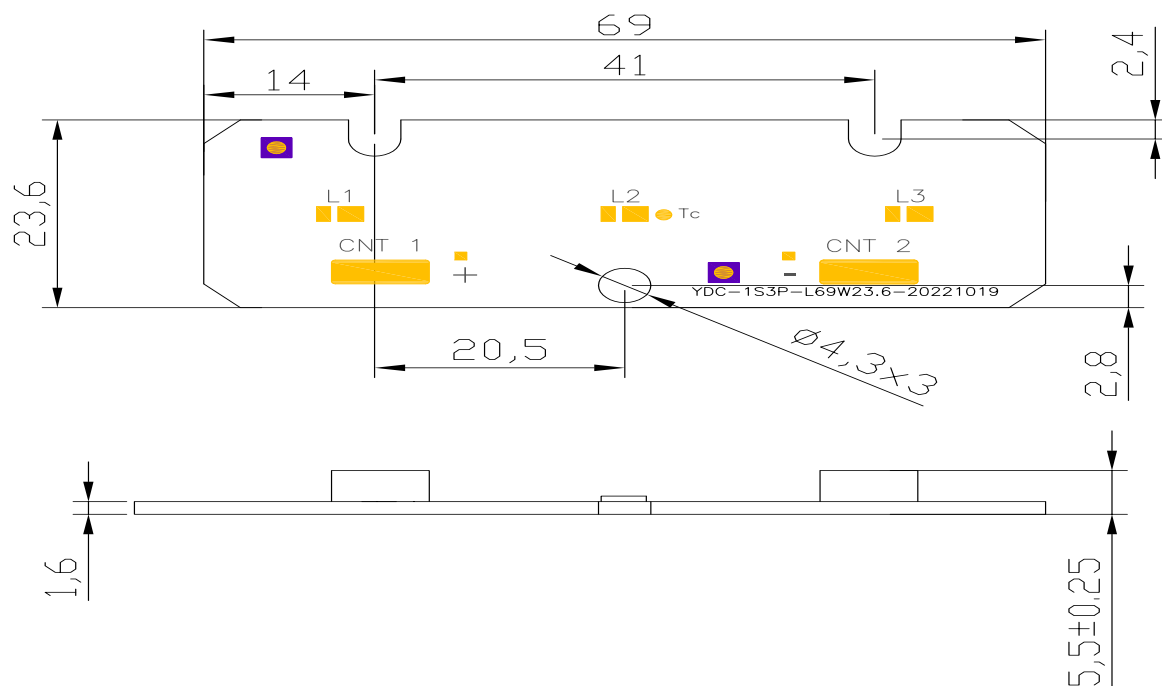


CCT	Steps	Cx	Cy	a	b	theta
6500K	3	0.3123	0.3282	0.00669	0.00285	58.57
5700K	3	0.3287	0.3417	0.00747	0.00321	59.09
5000K	3	0.3447	0.3553	0.00822	0.00354	59.62
4000K	3	0.3818	0.3797	0.00939	0.00402	53.72
3000K	3	0.4338	0.4030	0.00834	0.00408	53.22
2700K	3	0.4578	0.4101	0.00810	0.00420	53.7

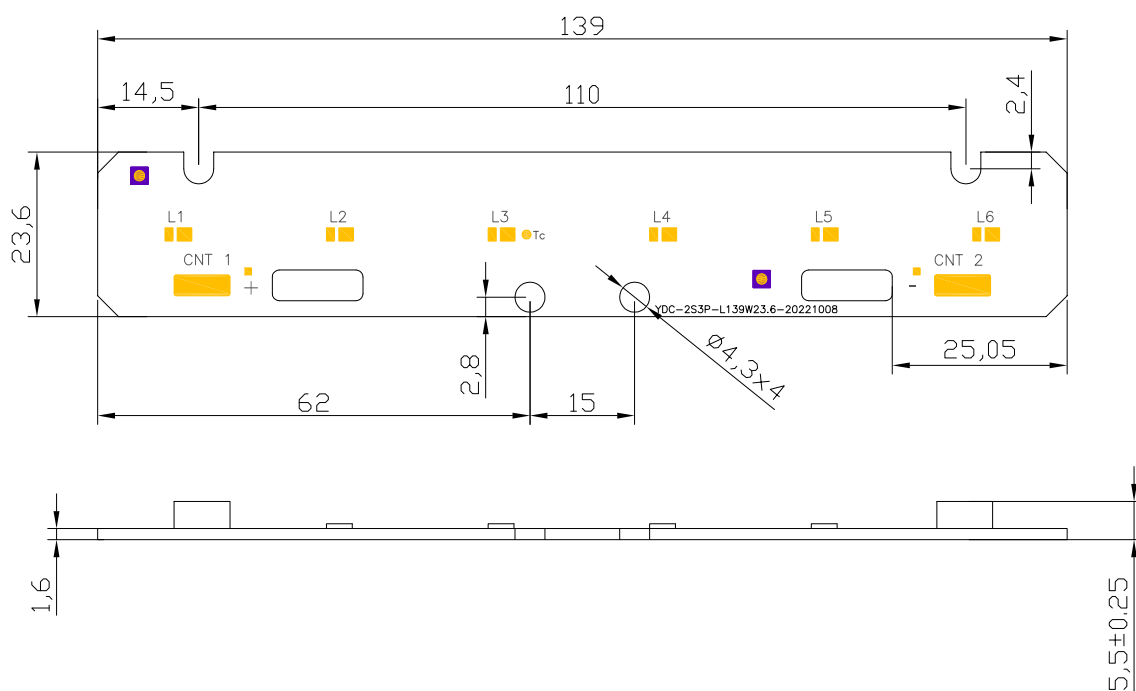
The color ranks have chromaticity ranges within 3-step MacAdam ellipse
The ambient temperature of the measurement is $t_a = 25^\circ\text{C}$.
The measurement tolerance of the color coordinates are ± 0.005 .

Mechanical Characteristics

5T03X8xxL0030013

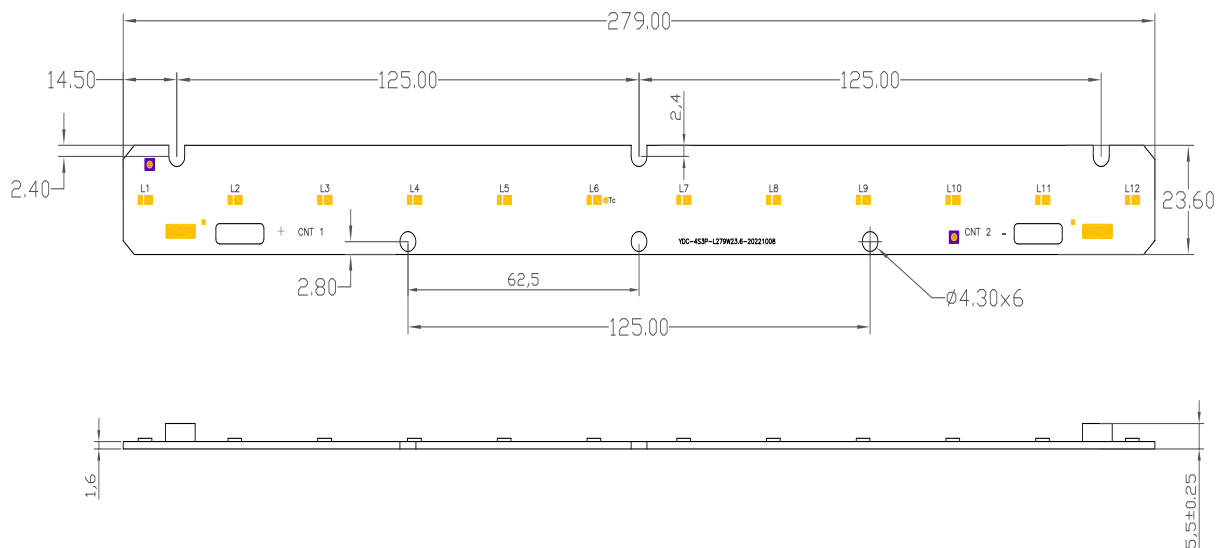


5T03X8xxL0060013

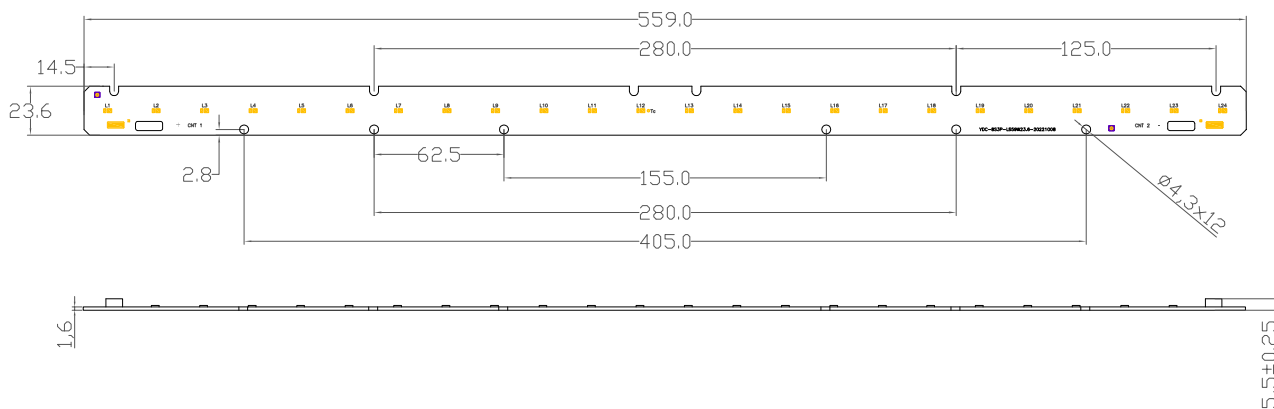


Note:
All dimensions are in millimeters.

5T03X8xxL0120013



5T03X8xxL0240013

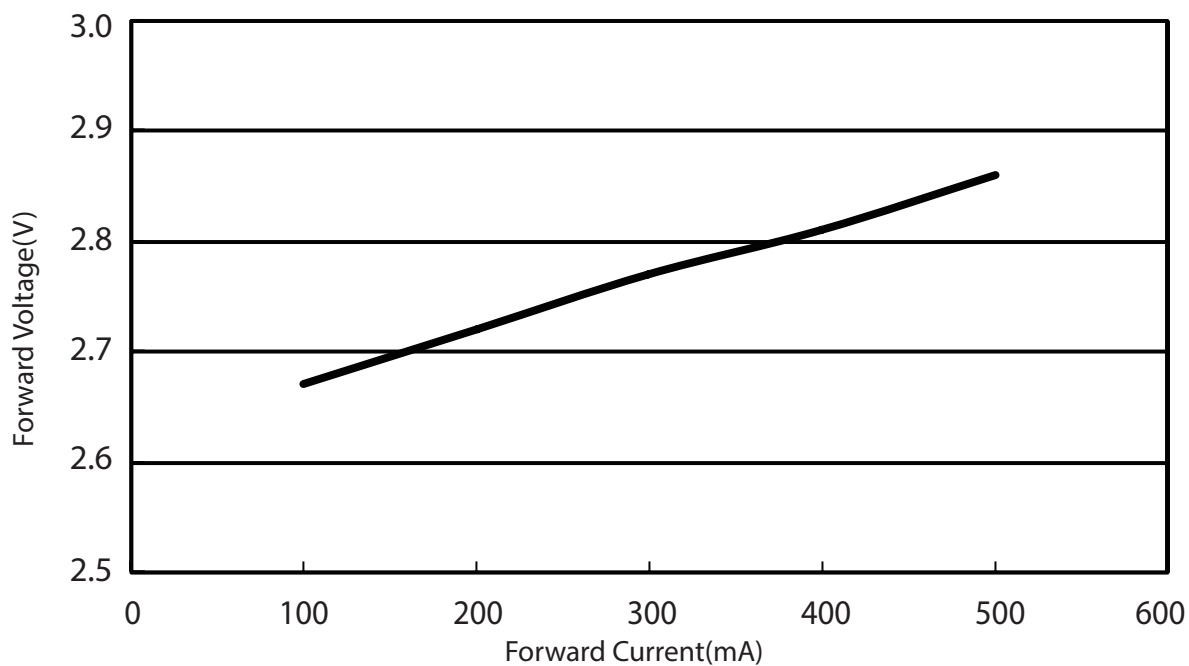


Note:
All dimensions are in millimeters.

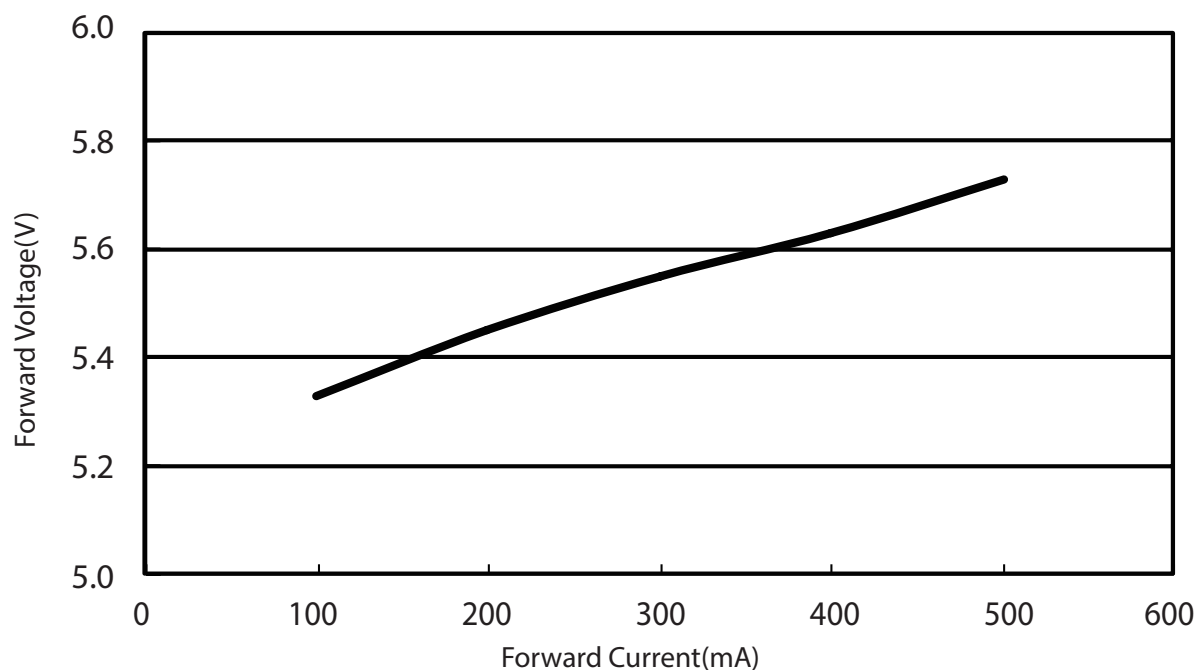
Characteristics Graph

Typ. forward voltage vs. forward current at TC=25°C

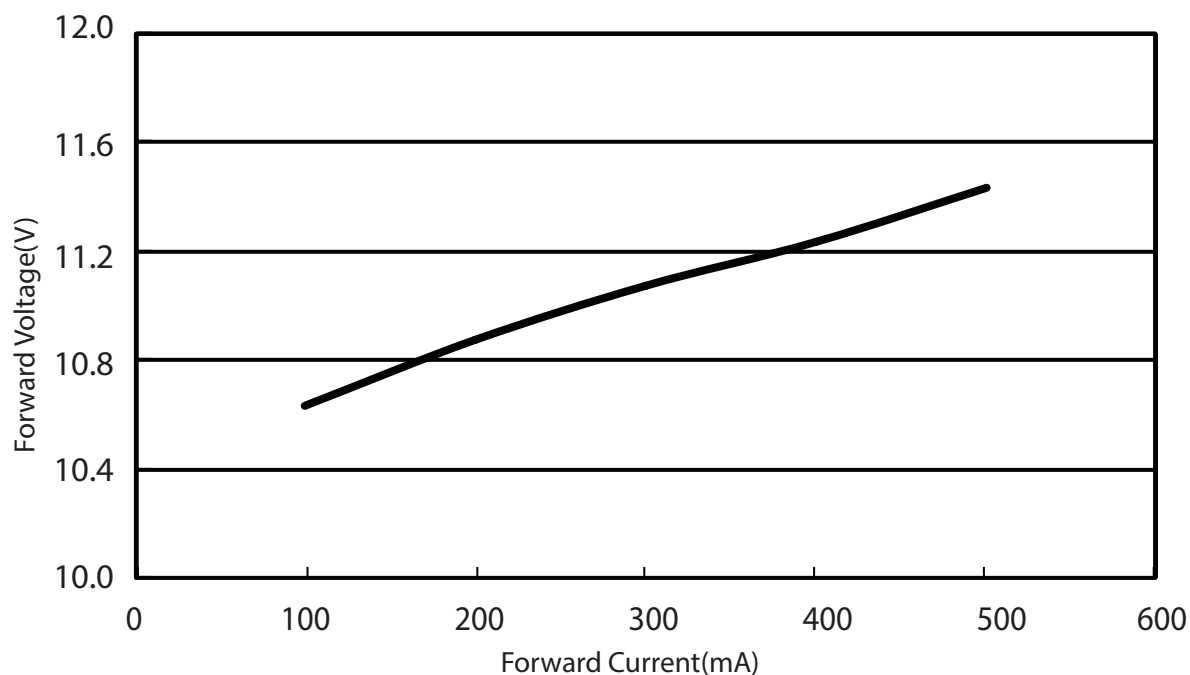
5T03X8xxL0030013



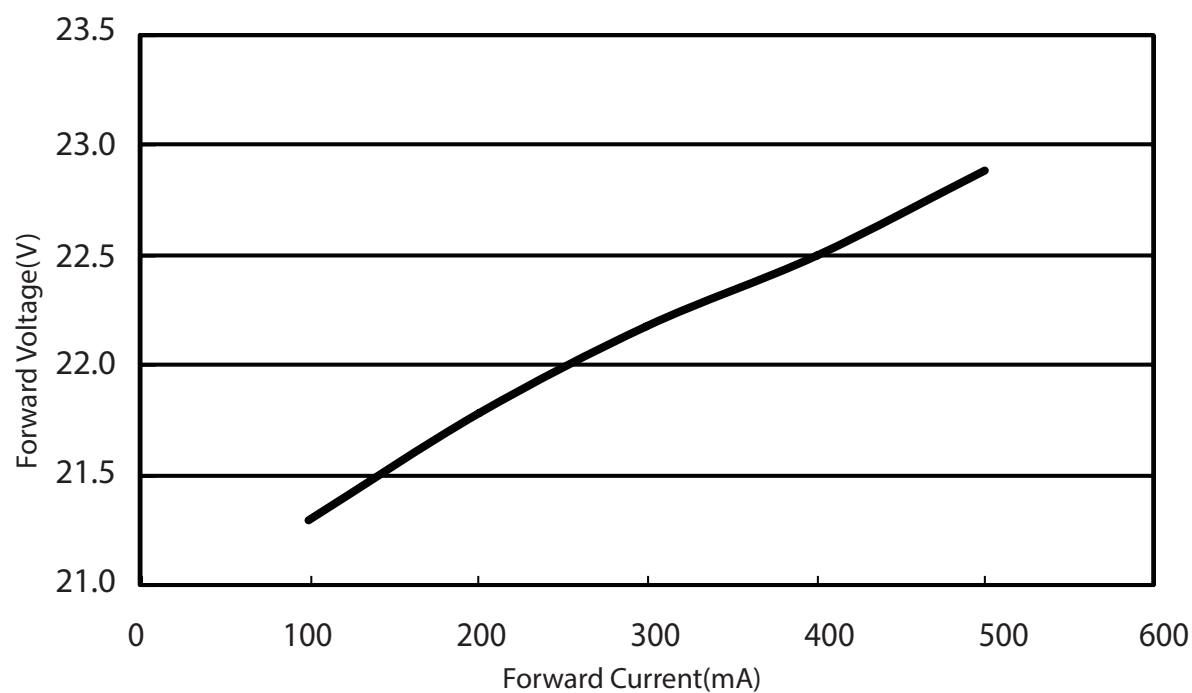
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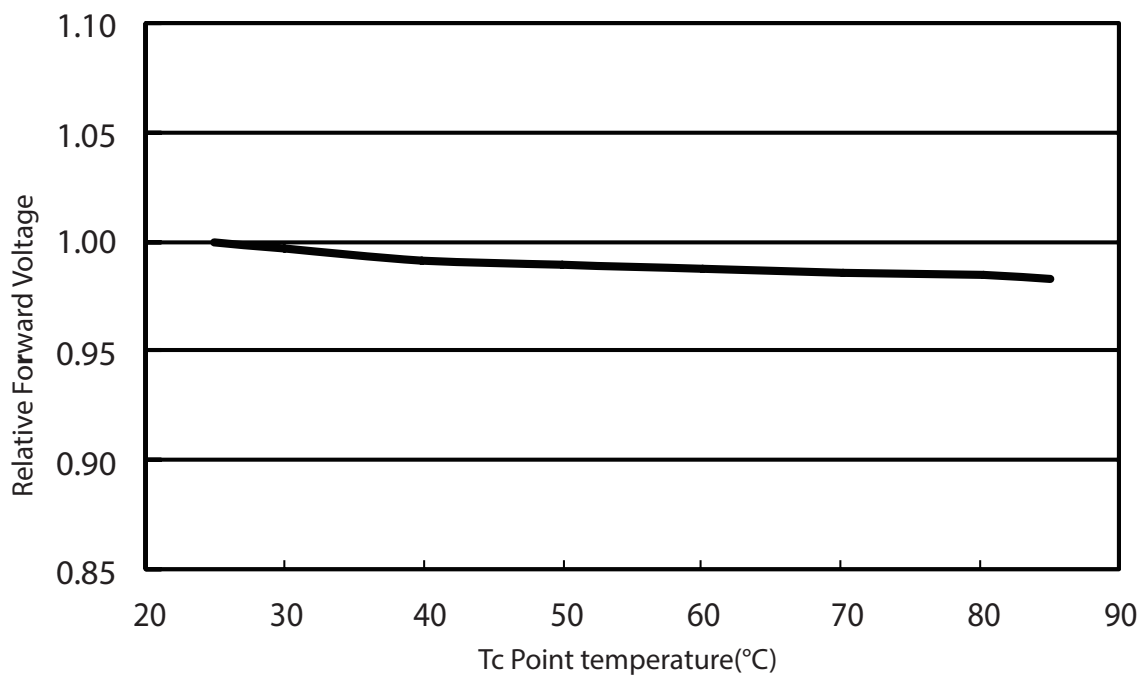
5T03X8xxL0120013



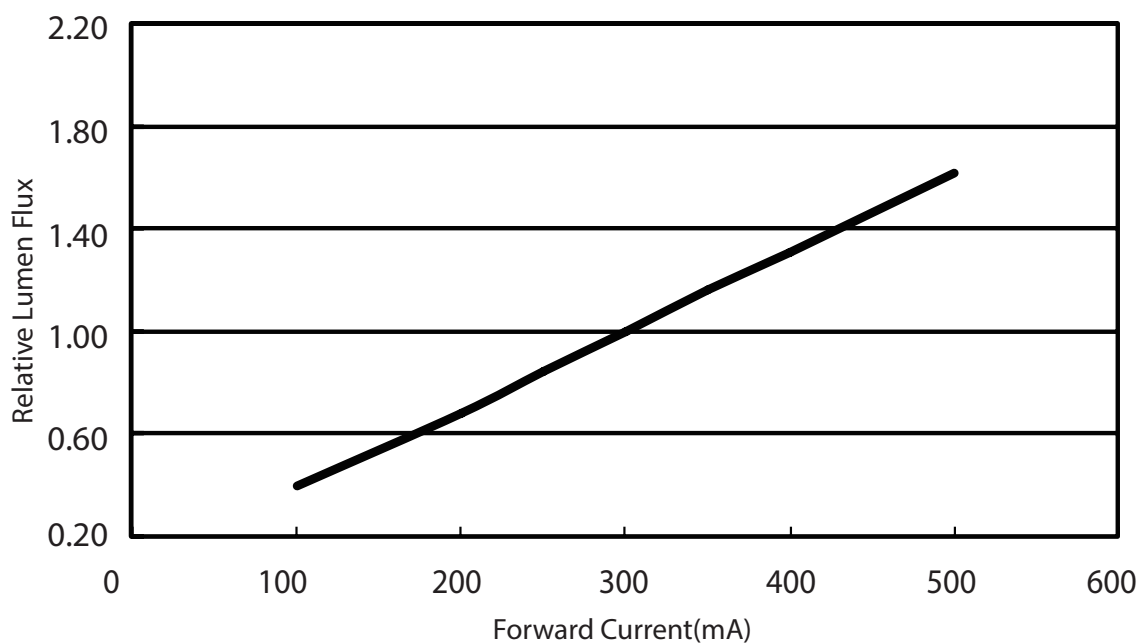
5T03X8xxL0240013



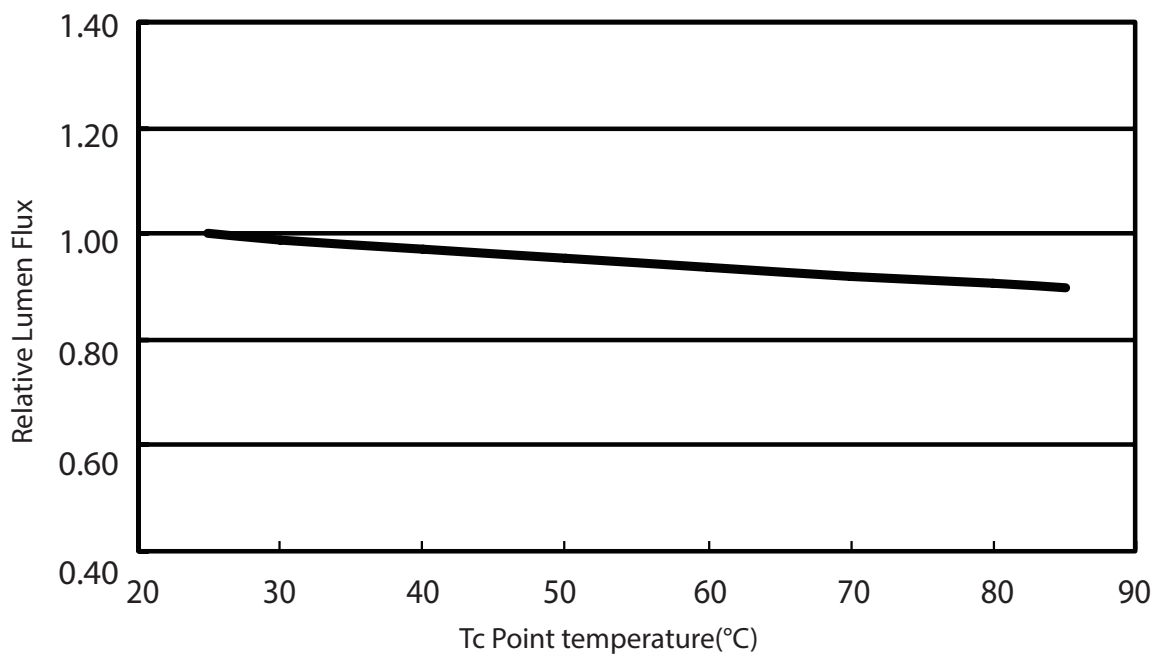
Relative Forward Voltage V.S. Tc Point temperature



Relative Lumen flux V.S. Forward Current



Relative Lumen flux V.S. Tc Point temperature

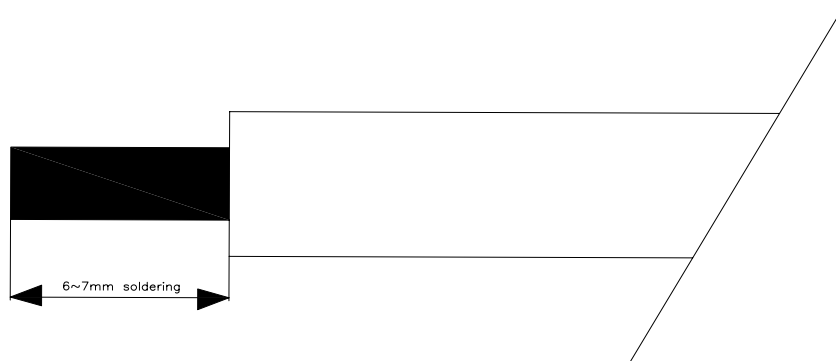


The diagrams are based on statistic values.
The real values can be different.

Wire condition

The wiring should be solid cable with a cross section of 0.4 to 0.75mm².

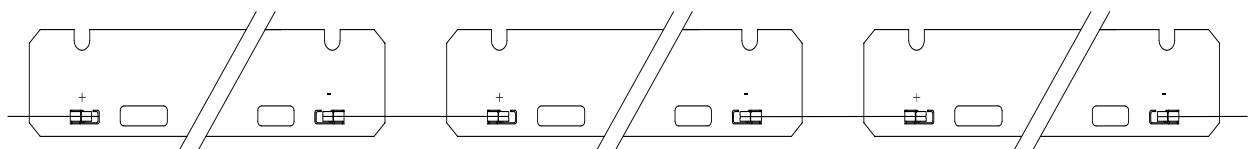
Push in-wire connection you have to strip the insulation (6-7mm)



Installation

1. The LED modules are designed for serial wiring. Parallel wiring is not permitted.
2. The LED models are basic insulated up to 300 V (if mounted with M4 screws in combination with plastic washers) against ground and can be mounted directly on earthed metal parts of the luminaire. If the max. output voltage of the LED Driver (also against earth) is above 300 V, an additional insulation between LED module and heat sink is required (for example by insulated thermal pads) or by a suitable luminaire construction.
3. The LED module must be supplied by a constant current LED Driver.
Operation with a constant voltage LED Driver will lead to an irreversible damage of the module.

Wiring examples



Precaution for Use

1. DO NOT touch the circuit board, components or terminals with body or metal while the circuit is active.
2. DO NOT add or change wires while the circuit of module is active.
3. Long time exposure to sunlight or UV should be avoided; otherwise, it may cause the discoloration of lens.
4. DO NOT use adhesives to attach the LED that outgas organic vapor.
5. DO NOT use the products with materials containing Sulfur.
6. DO NOT assemble in humid environment or the conditions of containing oxidizing gas such as Cl, H₂S, NH₃, SO₂, NO_x, etc.
7. DO NOT make any modifications on the products.
8. DO NOT press the product; even a slight pressure may damage the product.
The environments such as high temperatures, high humidity or direct expose to sunlight should be avoided since the product is sensitive to these conditions.
9. Storage Precautions:
 - (1)The devices should be stored in the anti-static bag.
 - (2)If the anti-static bag has been opened, please make sure to reseal the bag to avoid air and moisture infiltrate in the bag.
10. DO NOT wear any conductive accessories (such as jewelry) which could accidentally get an electric shock.
11. DO NOT directly make the HI-POT test over 750V on the module.
12. DO NOT added or removed Module without shutting down the operating Driver system (Hot-plugging). It will generate transient voltage and damage LED.

Environmental Compliance

The ZHAGA module series are compliant to the Restriction of Hazardous Substances Directive or RoHS . The restricted materials including lead, mercury, cadmium, hexavalent chromium, polybrominated diphenyl ether (PBDE), diisobutyl phthalate (DIBP), phthalic acid (2-ethylhexyl ester) (DEHP), dibutyl phthalate (DBP) and benzyl butyl phthalate (BBP) are not used in the module series to provide an environmentally friendly product to the customers.

Datasheet History

Versions	Description	Release Date
0.1	Establish	2022/11/03

About Edison Opto

Edison Opto is a leading manufacturer of high power LED and a solution provider experienced in LDMS. LDMS is an integrated program derived from the four essential technologies in LED lighting applications- Thermal Management, Electrical Scheme, Mechanical Refinement, Optical Optimization, to provide customer with various LED components and modules. More Information about the company and our products can be found at www.edison-opto.com

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www.edison-opto.com

For general assistance please contact:
service@edison-opto.com.tw

For technical assistance please contact:
LED.Detective@edison-opto.com.tw