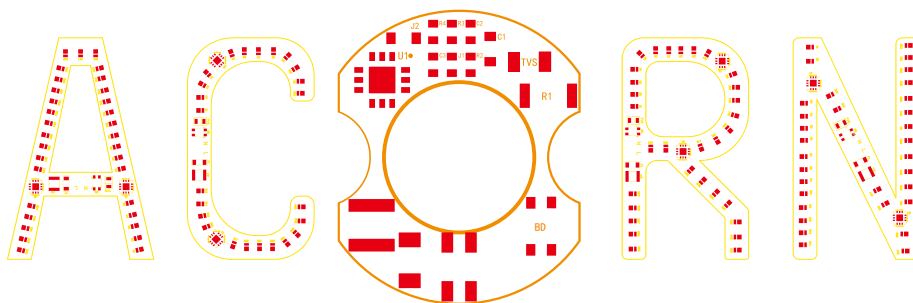


易 美



2022

LED Module Product Catalog



易美集团成立于2010年，由金沙江、北极光、IDG、MayField等国际风投联合投资，多位国家级人才、留美博士创办。

易美集团聚焦光电、第三代半导体、新型显示等领域的国际先进硬科技技术，致力于新产品及高精尖产品的研发及制造。创建以来，易美得到了国际国内一流客户的认可与信任，并获得了红鲱鱼（Red Herring）全球100强，德勤（Deloitte）中国高科技高成长50强，国务院侨办重点华侨华人创业团队等荣誉。公司承接并主导了17项国家及北京重大科技项目，包括多项科技部国家重点研发计划，“战略性先进电子材料”重点专项课题等。

历经多年的飞速发展，为满足高品质光电器件及模组日益增长的市场需求，2017年10月在南昌成立了“南昌易美光电科技有限公司”。公司利用北京的研发及国际化优势，结合南昌的地域及产业优势，加快扩大易美高品质光电封装器件与模组组件的生产规模，以满足国内外客户对高品质产品的需求。

易美集团坚持自主创新，在国际及国内创造了多个第一。被授予北京经济技术开发区博士后科研工作站；高亮度半导体发光器件北京国际科技合作基地；中关村国家自主创新示范区；北京科技研究开发机构；北京市设计创新中心等称号。公司已获得150多项国际、国内专利，积极参与国家标准编制，推动企业和行业的标准化发展，建立了由中国CNAS及美国EPA认证的LM-80实验室，先进的自动化产线采用ISO9001质量管理体系及专业的ERP/MES系统。公司始终坚信先进的技术、优质的服务、可靠的质量是生存之本与核心价值。公司的愿景是用创新改变世界，使世界更光明。公司的使命是成为顾客心目中LED技术方面的领导者、聚焦客户关注的挑战和压力，提供有竞争力的LED解决方案和服务、我们积极致力于器件、模组及制造技术方面的知识提升。

Shineon HardTech Co.,Ltd Established
Full Spectrum White LED Package Awarded Beijing
New Technology Product

2019

Green Development Award
Intellectual Property Award
Excellent Technology Award

2017

2018

"Of week" Award
ShineOn (Nanchang) Technology Co.,Ltd
Established
Innovation Technology Award

2016 Technology Innovation Award - TCL
Awarded with 3 National Key R&D Plan Projects
First to Achieve CSP Mass Production
Third Generation ACORN DOB to Market
23 Patents Awarded

2015

EPA Recognized Lab (LM-80)
Beijing Science and Technology Awards
CSP Technology Development

2016

2014

2013

Red Herring Global 100
World's First Fully Integrated Dimmable DOB
Capacity Expansion

Deloitte Top 50 Fast Growing High Tech
Company in China
CNAS Recognized Lab (LM-80)
Quantum Dot in Backlighting
Camera Flash Tech Development

High-tech Enterprise Certificate
High Power Ceramic Package
COB Tech Development

2012

2011

Global Clean-tech 100
TCL Approved Vendor

US Experts →

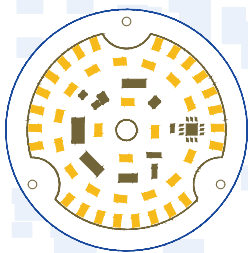


← Global VC

2010 Founded

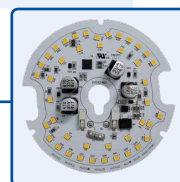
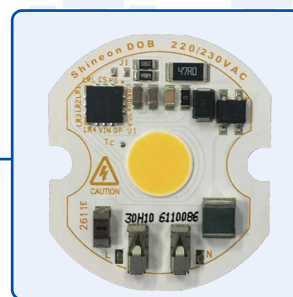
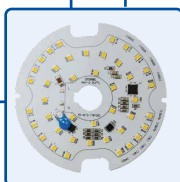


DOB



- MDD Series
- MDF Series
- MDL Series
- Warm Dimming Series
- Bluetooth control Series

DOB



DC

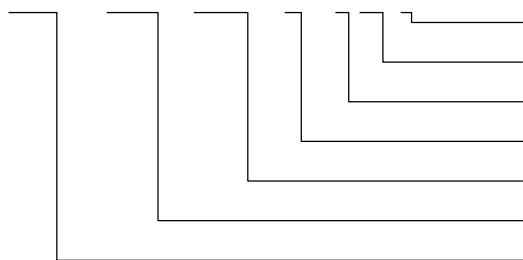
DC LED Module



- Flexible LED Tape
- Bendable Series
- Linear Light Series
- Panel Light Series
- CSP Tunable Series

Naming Rule of Shineon DOB product

MDX - XXXX - XXX - X - XXXD (-WD)



- 8、WD means Warm Dimming Series
- 7、D means TRIAC dimmerable
- 6、Power
- 5、Voltage : H for 230Vac, L for 120Vac
- 4、Ra: H for Ra>80, S for Ra>90
- 3、CCT: e. g. 300 means 3000K
- 2、Size: e. g. 4437 means 44mm*37mm
- 1、Type
 - MDF: COB type DOB
 - MDD: Normal flicker DOB
 - MDL: Low Flicker DOB



MDF serial
COB type DOB



MDD serial
Normal flicker DOB



MDL serial
Low Flicker DOB



WarmD Serial
Warm Dimming DOB

120Vac Major Products

Series	Model name	Size (mm)	Power (W)	色温 CCT	CRI	Triac Dimming	Low Flicker	Applications
MDD Series	MDD-70C2-XXX-X-LXXD	φ70	15	2700K/3000K/ 4000K/5000K/6500K	Ra>80/ Ra>90	Y	N	Celling Light Down Light
	MDD-A0C2-XXX-X-LXXD	φ100	12.5/15.5/17					
	MDD-F0C1-XXX-X-LXXD	φ150	20/25					
	MDD-J2C1-XXX-X-LXXD	φ192	20/25/30					
MDF Series	MDF-4437-XXX-X-LXXD	44*37	10/12/15	2700K/3000K/ 4000K/5000K/6500K	Ra>80/Ra>90	Y	N	Spot Light
MDL Series	MDL-A0C7-XXX-S-LXXD	φ100	15/17	2700K/ 3000K/4000K	Ra>90	Y	Y	Celling Light
	MDL-G0C3-XXX-S-LXXD	φ160	25					
	MDL-M8C1-XXX-S-LXXD	φ228.6	30					
	MDL-U0C1-XXX-S-LXXD	φ300	45					
WarmD Series	MDL-A0C8-300-S-L17D-WD	φ100	17	Dim-to-Warm 1800K-3000K	Ra>90	Y	Y	Celling Light Down Light
	MDL-M8C2-300-S-L30D-WD	φ228.6	30					Fan Celling Light
	MDL-A0C1-300-S-LXXD-WD	φ100	15/17					

230Vac Major Products

Series	Model name	Size (mm)	Power (W)	色温 CCT	CRI	Triac Dimming	Low Flicker	Applications
MDD Series	MDD-60C5-XXX-X-HXXD	φ60	9	2700K/3000K/ 4000K/5000K/6500K	Ra>80/ Ra>90	Y	N	Celling Light Down Light
	MDD-70C7-XXX-X-HXXD	φ70	13/15					
MDF Series	MDF-4437-XXX-X-HXXD	44*37	10/12/15	2700K/3000K/ 4000K/5000K/6500K	Ra>80/ Ra>90	Y	N	Spot Light
MDL Series	MDL-57C8-XXX-X-HXXD	φ57	15/20	2700K/3000K/4000K	Ra>80/ Ra>90	Y	Y	Spot Light

Media Focus

THE WALL STREET JOURNAL.
ASIA EDITION Tuesday, June 18, 2013 As of 11:47 AM EDT

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June 18, 2013, 11:47 a.m. ET

ShineOn Revolutionizes the LED Lighting Industry

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Text

ShineOn Revolutionizes the LED Lighting Industry

Launches World's First Fully-Integrated Dimmable LED Light Engine Without External Electronic Components

BEIJING--(Marketwired - Jun 18, 2013) - ShineOn Holding Inc., a global LED lighting solution provider, announced the successful demonstration of its DiscLight(TM) LED Light Engine, the world's first fully-integrated LED light engine without any external electronic components, at the Guangzhou International Lighting Exposition on June 9-12, 2014.

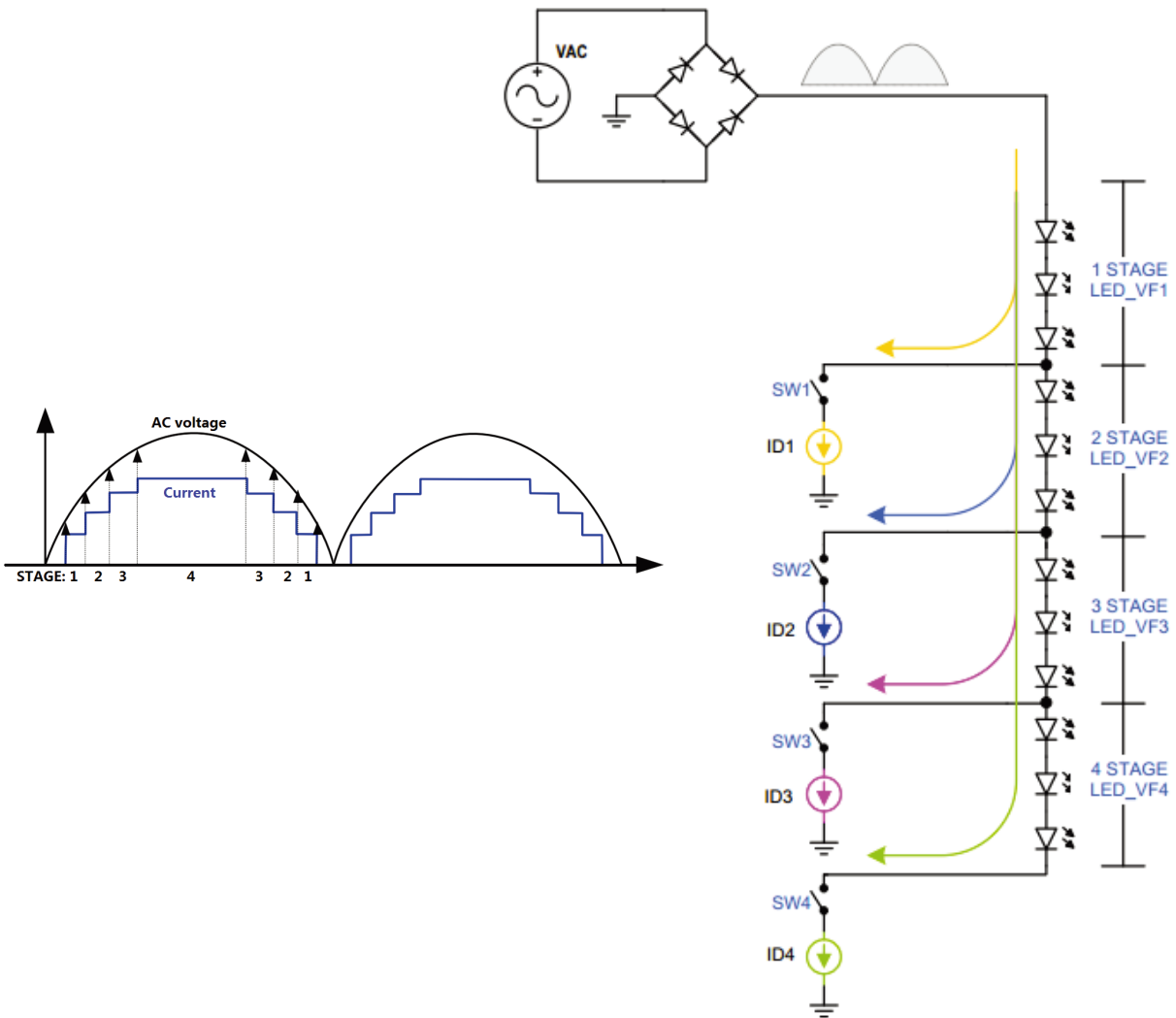
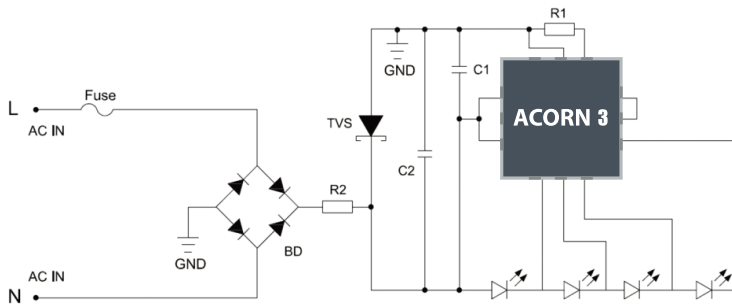
ShineOn's DiscLight(TM) LED Light Engine integrates a high voltage CMOS based driver IC with multi LED chip arrays on a single substrate. Leveraging its innovative control algorithm design and special IC configuration, this integrated module is capable of connecting to either 110V or a 220V AC power line directly, and can drive the LED array without requiring any additional electronic components such as voltage transformers, inductors and electrolyte capacitors.

Compared to 2-board solutions and solutions with discrete electronic components, ShineOn's elimination of such external components significantly improves the reliability as well as reducing the physical size of the module by more than 70 percent. These factors make ShineOn's DiscLight(TM) an excellent choice for indoor lighting applications ranging from 3-20W, such as candle lights, MR Light or PAR Lights.

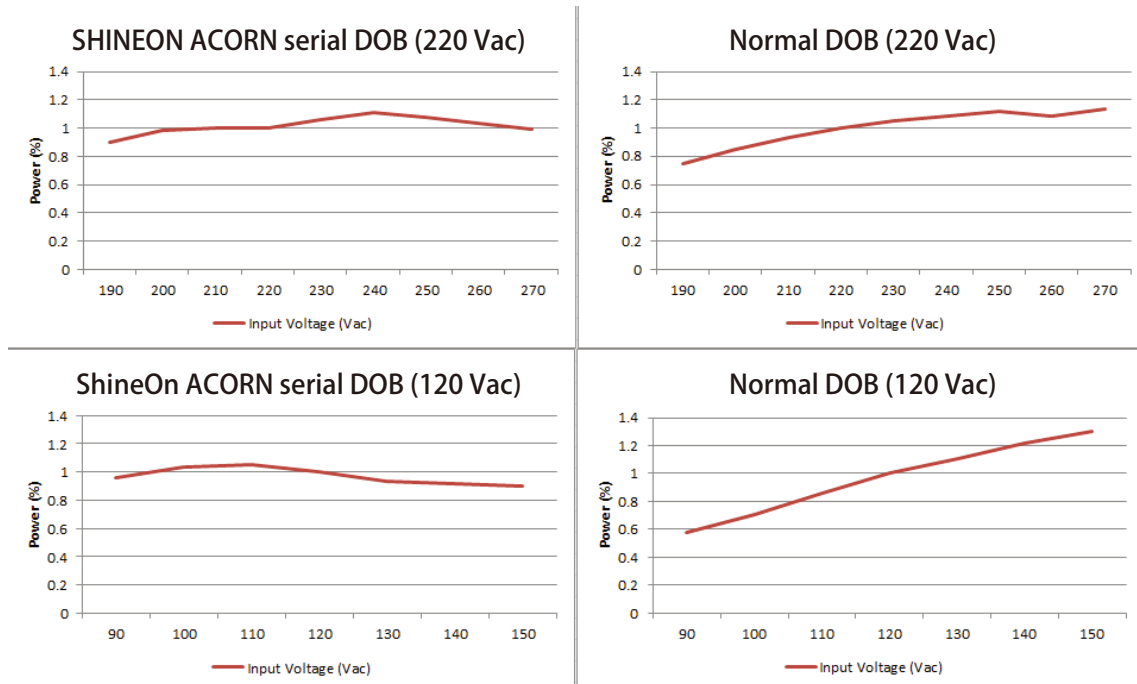
Technical advantages

Patent No.	Patent Title	Patent Type	Status
10-1132408	LED Driving Devise	Invention	Granted
CN201320335419.3	LED Lightin Module With Integrated IC Driver	Utility Model	Granted
CN201310486542.X	LED Driver Circuit with External Switching MOSFET	Invention	Granted
CN201310575081.3	LED Driver Circuit with External Switching MOSFET	Invention	Granted
CN201310713198.3	Driver Circuit that Protects LED Against Power Surge	Invention	Granted
CN201320849264.5	Highly Integrated LED Driver Structure without Capacitors and Inductors	Utility Model	Granted
CN201320849198.1	A LED Driver Circuit Structure	Utility Model	Granted
CN201320849227.2	LED Driver Circuit with External Switching MOSFET	Utility Model	Granted
CN201320850519.X	Driver Circuit that Protects LED Against Power Surge	Utility Model	Granted
CN201410350335.6	Constant Voltage Feedback Circuit for Sectional Linear LED Driver	Invention	Granted
CN201520449731.4	Resistor Current-Choking Circuit for Sectional Linear LED Driver	Utility Model	Granted
CN201521046893.X	Bi-Colour Light Pearl Support and Packaging Structure	Utility Model	Granted
CN201520997015.X	Adjustable Color Temperature's LED Integrated Optical Source	Utility Model	Granted
CN201610537151.X	Low-Strobolash AC LED Circuit	Invention	Granted
CN201610204822.0	A Segmented LED Drive Circuit Based on low Voltage Closing Mode	Invention	Granted
PCT/CN2017/099438	A LED Light Engine Capable of Dimming and CCT Tuning	Invention	Pending
CN201720506746.9	A LED Light Engine and Lighting Fixture Capable of Dimming and CCT Tuning	Utility model	Granted
10,415,811 B2	A Compact Dimmer Low - Frequency LED Light Engine Module	Invention	Pending
CN201720503861.0	A LED Segment Driver Circuit Structure	Utility model	Granted
CN201711240041.8	Preparation Method and Application of Ring-shaped LED Light Engine	Invention	Pending
CN201721639190.7	Ring-shaped LED Light Engine Module	Utility model	Granted
CN201920653941.3	High Color Rendering White Light LED Module	Utility model	Granted
CN201910382086.1	High Color Rendering White Light LED Module	Invention	Pending

Typical Application Circuit Diagram



Power Compensation With Voltage Fluctuation



➡ More reliable when Vac fluctuation!

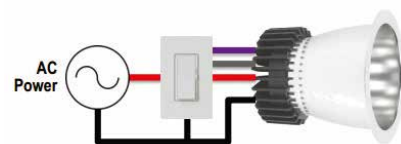
Compatible Dimmer List (NEMA SSL-7A)

120Vac TriAC Dimmer			Comment
Cooper	9530		Compatible
Cooper	D106P		Compatible
GE	18021		Compatible
Leviton	6631		Compatible
Leviton	6674		Compatible
Leviton	IPL06		Compatible
Lutron	CT-600P		Compatible
Lutron	CCCTL-153P		Compatible
Lutron	GL-600H		Compatible
Lutron	MACL-153M		Compatible
Lutron	S-600P		Compatible
Lutron	S-603P		Compatible
Lutron	SCL-153P		Compatible
Lutron	SELV-300P		Compatible
Lutron	TGCL-153P		Compatible
230Vac TriAC Dimmer			Comment
JUNG	225 TDE		Compatible
Sygonix	15-150 W/VA		Compatible
Sygonix	7-110 W/VA		Compatible
Merten	20-315 VA		Compatible
Gira	20-525 W		Compatible
Gira	50-420W		Compatible
Busch-Jaeger	6523 U		Compatible
Philips	SED-200A		Compatible
VIRIBRIGHT	Max 200W		Compatible
Clipsal	32E450LM		Compatible
Clipsal	32E450TM		Compatible
Clipsal	32E450UDM		Compatible
KAOYI	KDT-250E		Compatible
Zano	ZGRID500		Compatible

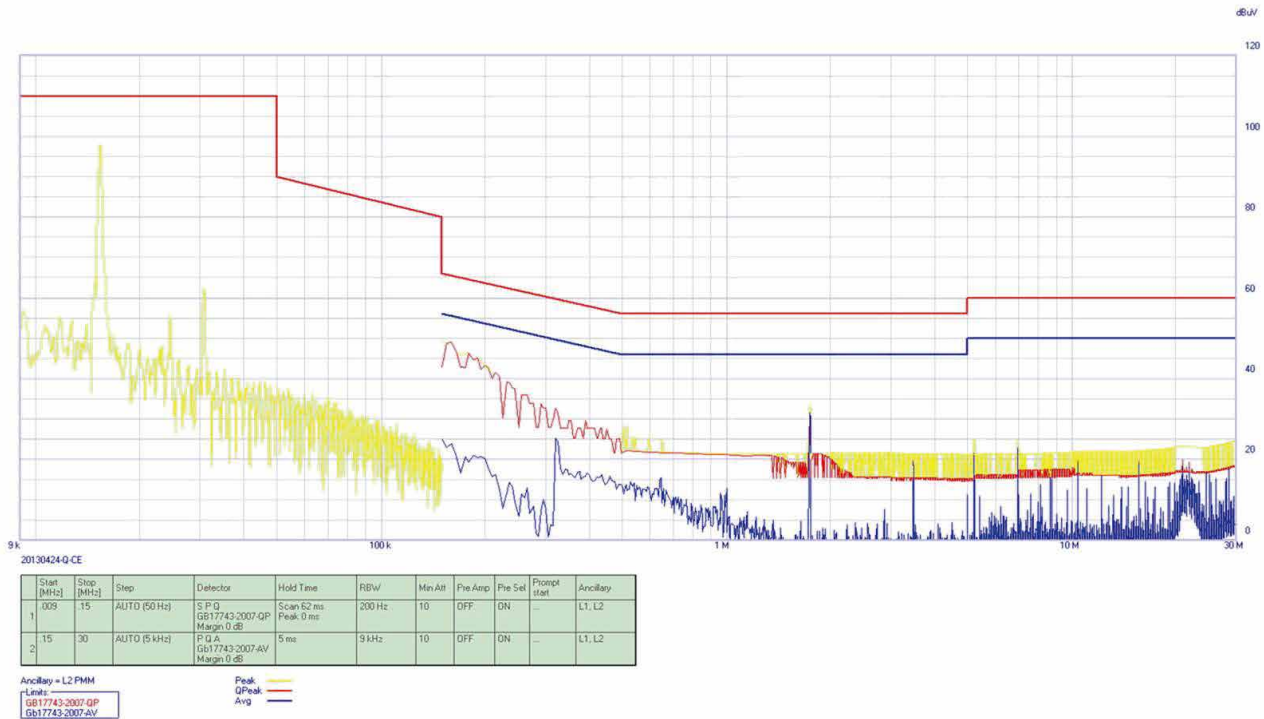
➡ For North American

➡ For Europe

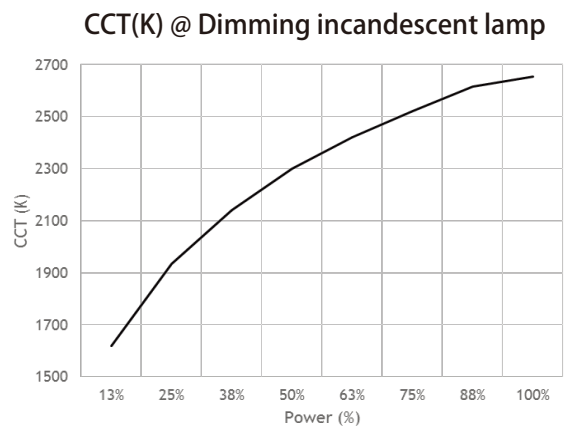
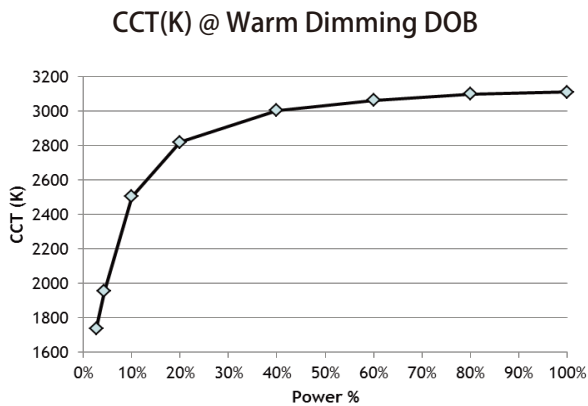
SSL-7A
Compliant



Lower EMC Result



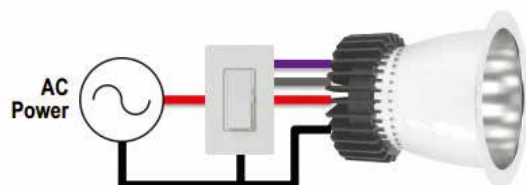
Warm dimming + Low flicker DOB solution



➡ CCT 3000K → 1750K, when power 100% → 5% by TRIAC dimmer.

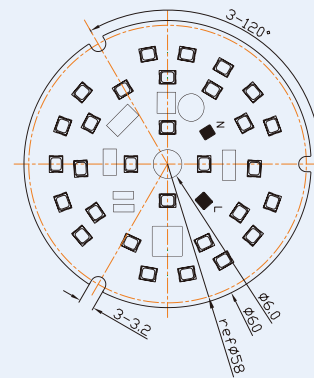
➡ Emulate dimming effect of incandescent lamp.

SSL-7A
Compliant



MDD Series

MDD-60C5

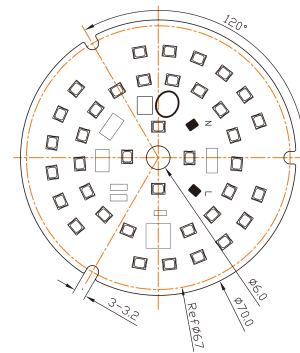


Ceiling Light
Down Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDD-60C5-300-H-H09D	φ60	230	9	3000	80	>0.95	1030	111
MDD-60C5-300-S-H09D	φ60	230	9	3000	90	>0.95	830	93

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
 * All Luminous flux (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * LM-80 9000h.

MDD-70C7



Ceiling Light
Down Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDD-70C7-300-H-H13D	φ70	230	13	3000	80	>0.95	1450	112
MDD-70C7-300-S-H13D	φ70	230	13	3000	90	>0.95	1200	93
MDD-70C7-300-H-H15D	φ70	230	15	3000	80	>0.95	1650	110
MDD-70C7-300-S-H15D	φ70	230	15	3000	90	>0.95	1350	90

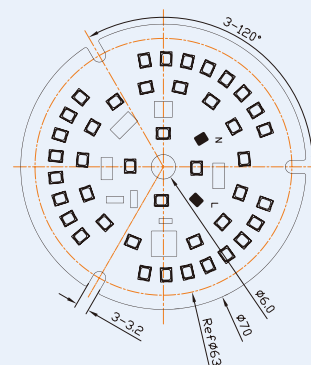
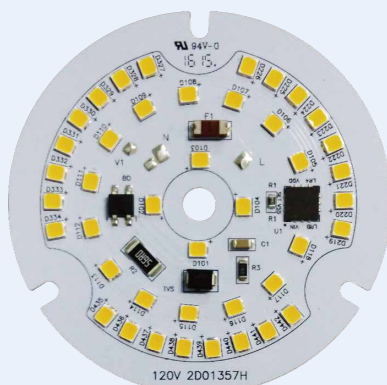
Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
 * All Luminous flux (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * LM-80 9000h.

MDD Series

MDD-70C2



Ceiling Light
Down Light



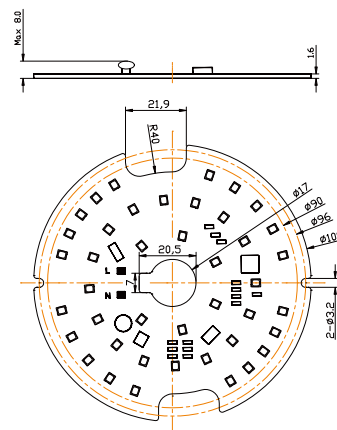
Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDD-70C2-300-H-L15D	φ70	120	15	3000	80	>0.95	1400	95
MDD-70C2-300-S-L15D	φ70	120	15	3000	90	>0.95	1200	80

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
 * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * LM-80 9000h.

MDD-A0C2



Ceiling Light
Down Light

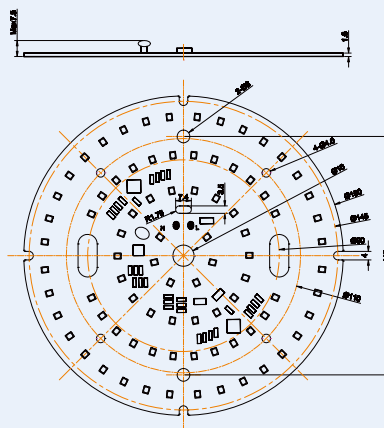
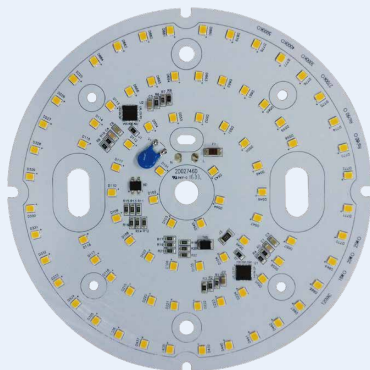


Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDD-A0C2-300-H-L12D	φ100	120	12.5	3000	80	>0.95	1250	100
MDD-A0C2-300-S-L12D	φ100	120	12.5	3000	90	>0.95	1060	85
MDD-A0C2-300-H-L15D	φ100	120	15.5	3000	80	>0.95	1550	100
MDD-A0C2-300-S-L15D	φ100	120	15.5	3000	90	>0.95	1320	85
MDD-A0C2-300-H-L17D	φ100	120	17	3000	80	>0.95	1700	100
MDD-A0C2-300-S-L17D	φ100	120	17	3000	90	>0.95	1450	85

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
 * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * LM-80 9000h.

MDD Series

MDD-F0C1

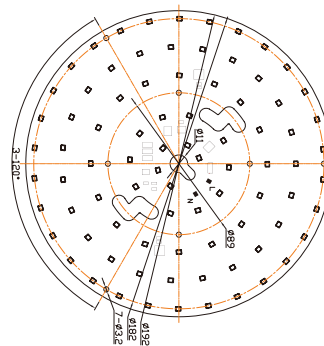
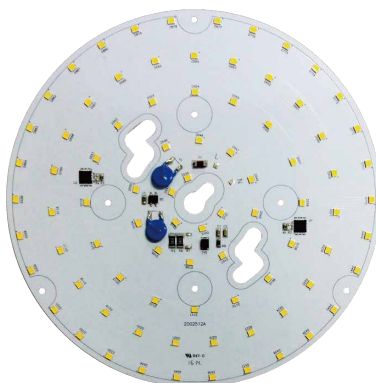


Ceiling Light
Down Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDD-F0C1-300-H-L20D	φ 150	120	20	3000	80	>0.95	2050	105
MDD-F0C1-300-S-L20D	φ 150	120	20	3000	90	>0.95	1720	87
MDD-F0C1-300-H-L25D	φ 150	120	25	3000	80	>0.95	2450	99
MDD-F0C1-300-S-L25D	φ 150	120	25	3000	90	>0.95	2050	82

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
 * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * LM-80 9000h.

MDD-J2C1



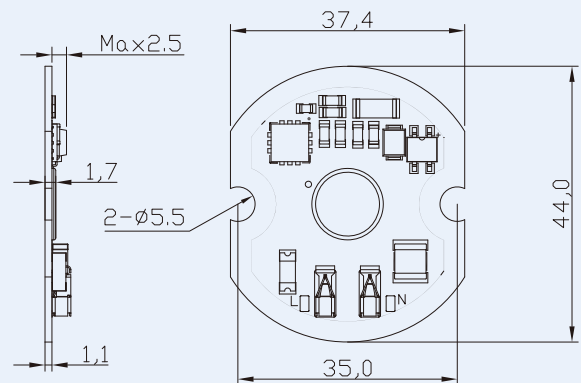
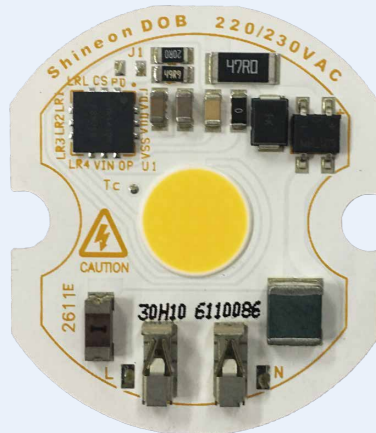
Ceiling Light
Down Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDD-J2C1-300-H-L20D	φ 192	120	20	3000	80	>0.95	2050	105
MDD-J2C1-300-S-L20D	φ 192	120	20	3000	90	>0.95	1720	87
MDD-J2C1-300-H-L25D	φ 192	120	25	3000	80	>0.95	2450	99
MDD-J2C1-300-S-L25D	φ 192	120	25	3000	90	>0.95	2050	82
MDD-J2C1-300-H-L30D	φ 192	120	30	3000	80	>0.95	2800	95
MDD-J2C1-300-S-L30D	φ 192	120	30	3000	90	>0.95	2400	80

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
 * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * LM-80 9000h.

MDF Series

MDF-4437



Flip-chip technology
ZHAGA(book3) compliance
No hand-soldering



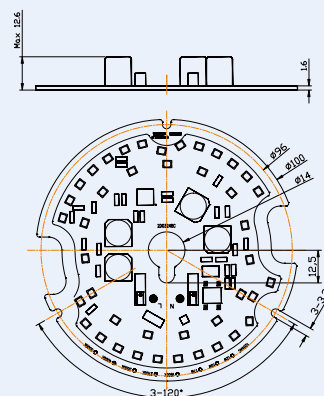
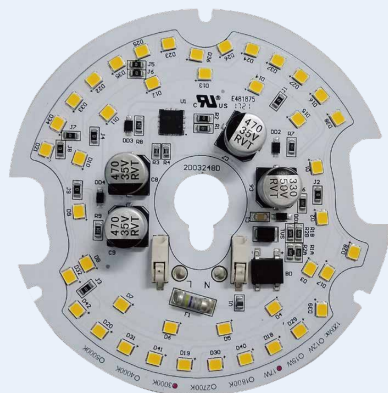
Spot Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDF-4437-300-H-H10D	44*37	230	10	3000	80	>0.95	1100	110
MDF-4437-300-S-H10D	44*37	230	10	3000	90	>0.95	935	94
MDF-4437-300-H-H15D	44*37	230	15	3000	80	>0.95	1550	103
MDF-4437-300-S-H15D	44*37	230	15	3000	90	>0.95	1315	88
MDF-4437-300-H-H20D	44*37	230	20	3000	80	>0.95	1800	90
MDF-4437-300-S-H20D	44*37	230	20	3000	90	>0.95	1530	77
MDF-4437-300-H-L10D	44*37	120	10	3000	80	>0.95	1050	102
MDF-4437-300-S-L10D	44*37	120	10	3000	90	>0.95	900	87
MDF-4437-300-H-L12D	44*37	120	12	3000	80	>0.95	1150	97
MDF-4437-300-S-L12D	44*37	120	12	3000	90	>0.95	1000	82
MDF-4437-300-H-L15D	44*37	120	15	3000	80	>0.95	1350	90
MDF-4437-300-S-L15D	44*37	120	15	3000	90	>0.95	1150	77

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K, 5000K and 6500K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL Series

MDL-A0C7



Low flicker solution for CEC title 24

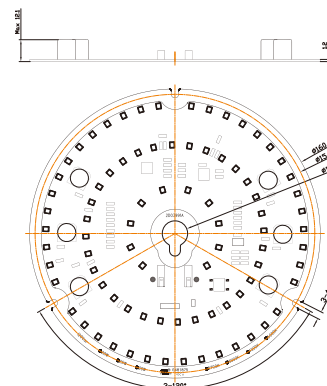
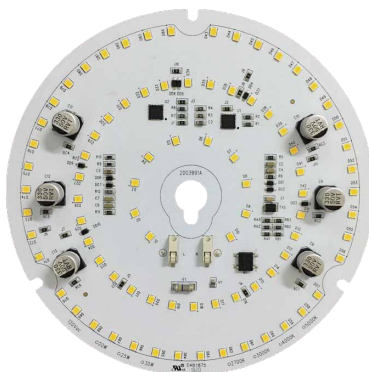


Ceiling Light
Down Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-A0C7-300-S-L15D	φ 100	120	15	3000	90	>0.95	1350	90
MDL-A0C7-300-S-L17D	φ 100	120	17	3000	90	>0.95	1500	88

Notes: * All Models are available in 2700K, 3000K, 4000K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL-G0C3



Low flicker solution for CEC title 24



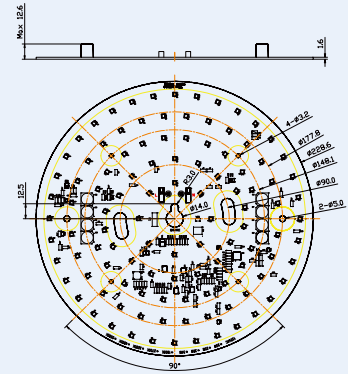
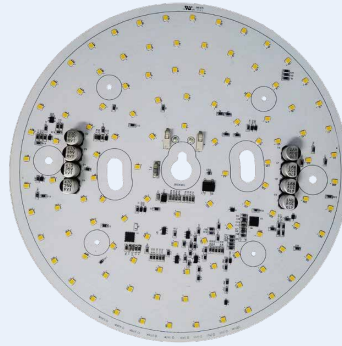
Ceiling Light
Down Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-G0C3-300-S-L25D	φ 160	120	25	3000	90	>0.95	2500	100

Notes: * All Models are available in 2700K, 3000K, 4000K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL Series

MDL-M8C1



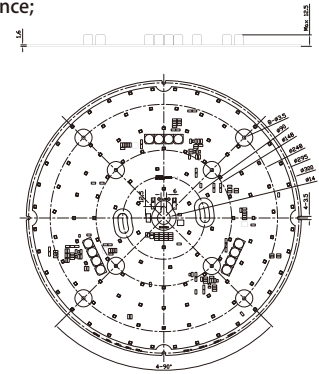
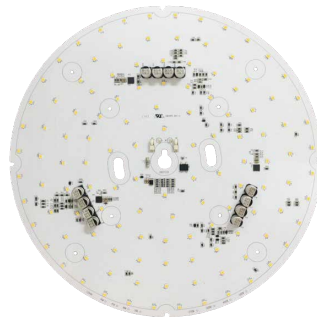
Ceiling Light

Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-M8C1-300-S-L30D	φ228.6	120	30	3000	90	>0.95	2700	90

Notes: * All Models are available in 2700K, 3000K, 4000K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL-U0C1



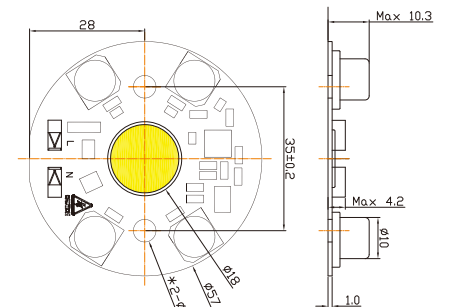
Ceiling Light

Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-U0C1-300-S-L45D	φ 300	120	45	3000K	Ra90	>0.95	4000	89

Notes: * All Models are available in 2700K, 3000K, 4000K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL-57C8



Spot Light

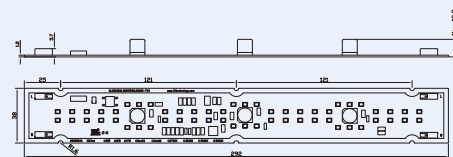
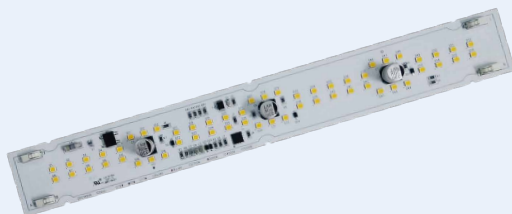
Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-57C8-300-S-H15D	φ57	230	15	3000K	Ra90	>0.95	1500	100

Notes: * All Models are available in 2700K, 3000K, 4000K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL Series

MDL-T239



Low flicker solution for CEC title 24



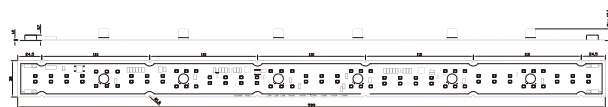
Linear Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-T239-300-S-L15D	292*38	120	15	3000	90	>0.95	1400	93

Notes: * All Models are available in 2700K, 3000K, 4000K;

* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL-5E39



Low flicker solution for CEC title 24



Linear Light

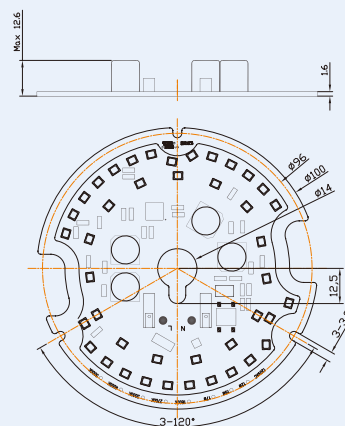
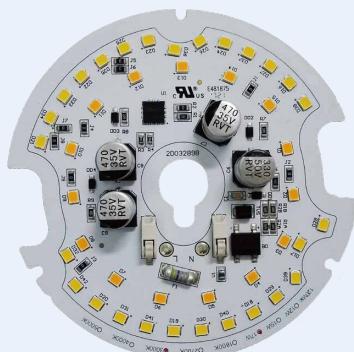
Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-5E39-300-S-L25D	599*38	120	25	3000	90	>0.95	2050	82

Notes: * All Models are available in 2700K, 3000K, 4000K;

* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL WarmD Series

MDL-A0C8



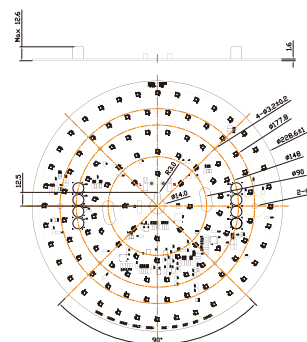
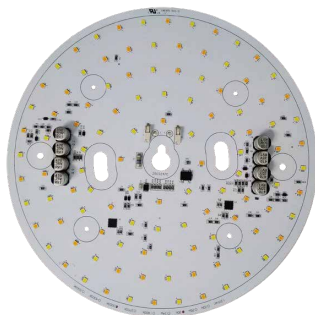
Ceiling Light
Down Light

Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-A0C8-300-S-L17D-WD	φ 100	120	17	1800-3000	90	>0.95	1300	77

Notes: *All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL-M8C2



Ceiling Light

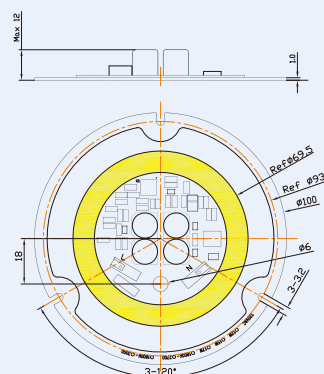
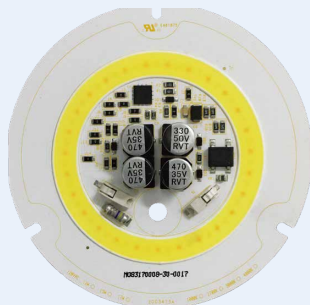
Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-M8C2-300-S-L30D-WD	φ 228.6	120	30	1800-3000	90	>0.95	2900	97

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL WarmD Series

MDL-A0C1



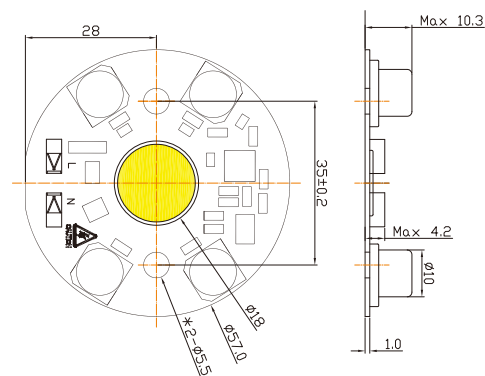
Fan Ceiling Light

Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-A0C1-300-S-L15D-WD	φ 100	120	15	1800-3000	90	>0.95	1250	84
MDL-A0C1-300-S-L17D-WD	φ 100	120	17	1800-3000	90	>0.95	1400	82

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDL-57C5



Spot Light

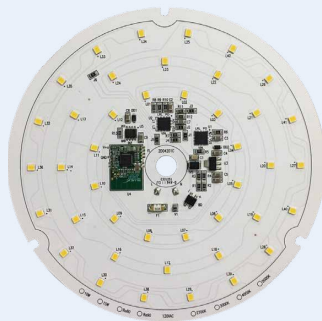
Low flicker solution for CEC title 24

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	PF	Luminous flux (lm)	Efficacy (lm/W)
MDL-57C5-300-S-H15D-WD	φ57	230	15	1800-3000	90	>0.95	1400	93

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

DOB Series with Bluetooth Mesh Technology

MDD-F0C4 MDD-F0C5



The Bluetooth 5.0 standard SIG-Mesh technology;
connect and control the lamps through the mobile App;
Group control settings for various scenario;



Fan Ceiling Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	Lumen (lm)	Efficacy (lm/W)
MDD-F0C4	φ 150	120	15	3000	80	1550	103
MDD-F0C5	φ 150	230	15	3000	80	1550	103

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

MDD-M8C1 MDD-M8C0



The Bluetooth 5.0 standard SIG-Mesh technology;
connect and control the lamps through the mobile App;
Group control settings for various scenario;
Rich lighting effects, Warm dimming CCT range 2700K-5000K;



Fan Ceiling Light

Model name	Size (mm)	Voltage (Vac)	Power (W)	CCT (K)	Ra	Luminous flux (lm)	Efficacy (lm/W)
MDD-M8C1-WD	φ 228	120	30	2700-5000	80	3100	103
MDD-M8C0-WD	φ 228	230	30	2700-5000	80	3100	103

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

DC LED Module

Flexible LED Tape Constant Current Series



Advantages & Benefits

- High CRI / Rf / Rg index (TM-30-18)
- Maximum run length 5 meters
- Full Spectrum 2835 LEDs
- Uniform, linear light output
- IP rating available IP20, IP54, and IP65

Applications

- Commercial Lighting
- Household Lighting
- Galleries
- Museums

Model name	Size (mm)	Min. Unit	Voltage (V DC)	Power (W/m)	CCT (K)	Quantity of LED	Flux (lm/m)	Efficacy (lm/W)	Typ. Ra	Rg	Rf
LSN-10K5-300-F-0850-2835-24-A	5000* 10	8LEDs/ 100mm	24	7.2	3000	80LEDs/m	935	130	97	102	95

Notes: * All Models are available in 2700K, 3000K, 3500K, 4000K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

Flexible LED Tape Dual Channel Color Tunable Series



Advantages & Benefits

- High CRI / Rf / Rg index (TM-30-18)
- 2 channel adjustable CCT tuning range from 2400K to 5000K
- Maximum run length 5 meters
- Full Spectrum 2016 LEDs
- IP rating available IP20

Applications

- Commercial Lighting
- Household Lighting
- Office Lighting

Model name	Size (mm)	Min. Unit	Voltage (V DC)	Power (W/m)	CCT (K)	Quantity of LED	Flux (lm/m)	Efficacy (lm/W)	Typ. Ra	Rg	Rf
LSN-10K5-2450-F-06K0-2016-24-A	5080* 10	12LEDs/ 50mm	24	32	2400-5000	240LEDs/ m	3000	93	95	102	95

Notes: * Lumen (lm) are measured based on both channels at full power - 3400K , just for reference;

DC LED Module

Flexible LED Tape COB LED Series



Advantages & Benefits

- Integrated package
- 180° Full angle luminescence
- soft linear light, dot less

Applications

- Decorative Lighting
- Indoor Lighting

Model name	Size (mm)	Min. Unit	Voltage (V DC)	Power (W)	CCT (K)	Quantity of Chip	Flux (lm)	Efficacy (lm/W)	Ra
COB LED Series	375*8	62.5mm	24	3.8	3000	192	320	85	95

Notes: * All Models are available in 2200K, 2700K, 3000K, 4000K, 5000K, 6500K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C, just for reference;

Bendable Series



Advantages & Benefits

- Bendable Substrate for Ring Use
- Side-in installation

Applications

- Round panel light



Model name	Size (mm)	Current (mA)	Voltage (V)	Power (W)	CCT (K)	Flux (lm)	Efficacy (lm/W)	Ra
LSN-S579-300-S-0412-2835-36-A	285*7.9	240	36	8.6	3000	1150	133	90

Notes: * All Models are available in 2700K, 3000K, 4000K, 5000K and 6500K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C, just for reference;
* The size of the product can be customized

Linear Light Series



Advantages & Benefits

- High luminous efficacy
- Connector for easy splicing

Applications

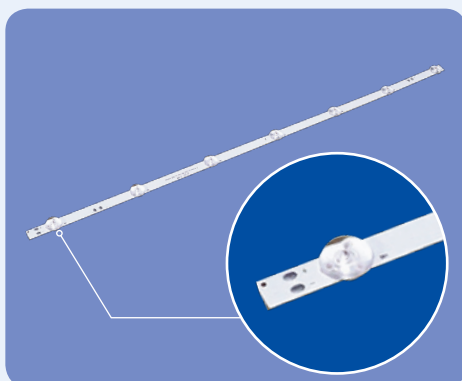
- Tube Light
- Linear Light

Model name	Size (mm)	Current (mA)	Voltage (V)	Power (W)	CCT (K)	Flux (lm)	Efficacy (lm/W)	Ra
LSN-R518-300-H-0509-2835-27-B	275*18	240	25.4	6.1	3000	1080	178	80

Notes: * All Models are available in 2700K, 3000K, 4000K, 5000K and 6500K;
* All Lumen (lm) are typical value measured at Tc ~ 25°C, just for reference;
* The size of the product can be customized

DC LED Module

Panel Light Series



Advantages & Benefits

- Uniform light effect
- Direct installation
- Custom size

Applications

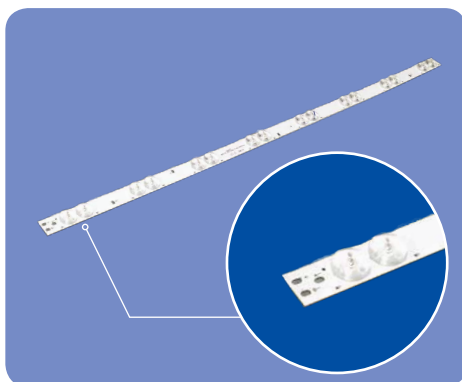
- Panel light



Model name	Size (mm)	Current (mA)	Voltage (Vac)	Power (W)	CCT (K)	Flux (lm)	Efficacy (lm/W)	Ra
LLN-9D10-XXX-H-0701-2835-42-4658	489*10	150	42	6.3	4000	910	140	80
LLN-2E10-XXX-H-0402-2835-36-4569	514*10	200	36	7.2	4000	980	135	80

Notes: * All Models are available in 3000K, 4000K, 5000K and 6500K;
 * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * The size, Voltage and Ra of the product can be customized

Panel Light Series



Advantages & Benefits

- Uniform light effect
- Direct installation
- Custom size

Applications

- Panel light



Model name	Size (mm)	Current (mA)	Voltage (Vac)	Power (W)	CCT (K)	Flux (lm)	Efficacy (lm/W)	Ra
LLN-9D15-3040-H-0402D-2835-36-4764	489*15	200	36	7.2	3000	1150	150	80
					4000	1250	165	
LLN-2E15-3040-H-0402D-2835-36-4765	514*15	200	36	7.2	3000	1150	150	
					4000	1250	165	

Notes: *All Models are available in 3000K, 4000K, 5000K and 6500K;
 * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;
 * The size, Voltage and Ra of the product can be customized

DC LED Module

CSP Tunable Series



Advantages & Benefits

- 2 channel adjustable CCT tuning range from 3000K to 6500K
- Small luminous surface, high optical density

Applications

- Down Light
- Spot Light

Model name	Size (mm)	Current (mA)	Voltage (Vac)	Power (W)	CCT (K)	Flux (lm)	Efficacy (lm/W)	Ra
MDN-35C1 Series	φ35	700	28.6	20	3000-6500	2000	110	80

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;

CSP Tunable Series



Advantages & Benefits

- 2 channel adjustable CCT tuning range from 3000K to 6500K
- Small luminous surface, high optical density

Applications

- Down Light
- Spot Light

Model name	Size (mm)	Current (mA)	Voltage (Vac)	Power (W)	CCT (K)	Flux (lm)	Efficacy (lm/W)	Ra
MDN-82C1 Series	φ82	1400	34.5	48	3000-6500	5300	110	80

Notes: * All Lumen (lm) are typical value measured at Tc ~ 25°C , just for reference;



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