LIGHT your BRAND

LG Innotek LED Lighting

LG Innotek

The First Partner

We are to provide the utmost value to customers and become the first choice of customers as a global leader of materials and components.

• Overview of LG Innotek

LG Innotek, as a B2B company, internalizes the method of creating customer value. We are seeking to propose future technology for customers in advance. Also, we provide a total solution for our customer's benefit, not simply products.

'The First Partner LG Innotek' is our future that we will achieve.

- CEO : Ung Beom Lee
- Established Date : August 22, 1970
- Sales : 4,639 million USD
- Employees : 19,000
- Business Areas : LED, PCB, Mobile, Display, Network, Automotive, Green
- Products : LED, Camera Module, ABS/EPS Motor, Touch Window etc. (2012.12)

• LED Business Area

Illumination

- LED Components
- Module
- Engine
- Driver

Display

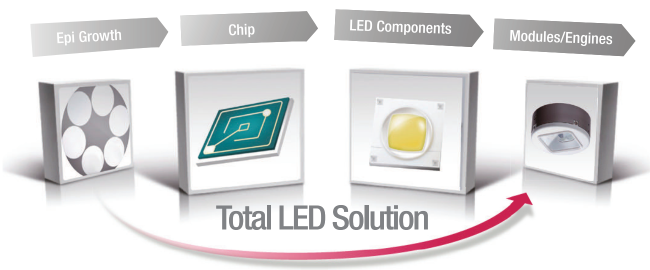
- Portable Devices
- PC Monitor
- TV

Automotive

- Front Exterior Lamp
- Interior Lamp
- Decoration Lamp
- Rear Exterior Lamp

• LED Business Core Competitiveness

LG Innotek offers total solutions for all LED lighting processes, thereby maximizing our customers' product design.



Technology

- The world's first 6 inch epi wafer mass production
- Vertical LED chips development
- Optimized design by thermal, power and control technology

Largest Capacity

- The world's largest production capacity as a single factory, Paju complex

Reliability

- Official LM80 laboratory inside the Paju complex
- Undergoing LM80 & TM 21 testing for all LED components

LED Components

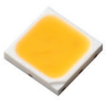
Mid Power


5630 Series


5152 Series (HE)


6030 Series


7030 Series


3030 Series

High Power


3535 Ceramic Series

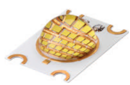

5152 Series (1W)


5250 HV Series

COB

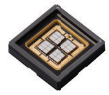

4W


10W/13W/17W/24W


60W

RGB & UV LED

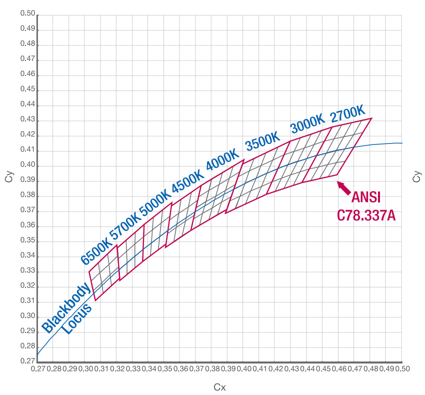

3528 RGB Series


UV

CCT Variety & Binning Structure

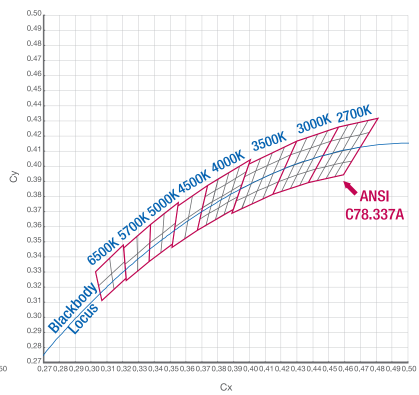
Mid Power

- Warm White(2700~4000K): 16 Bins
- Cool White(4500~6500K): 9 Bins



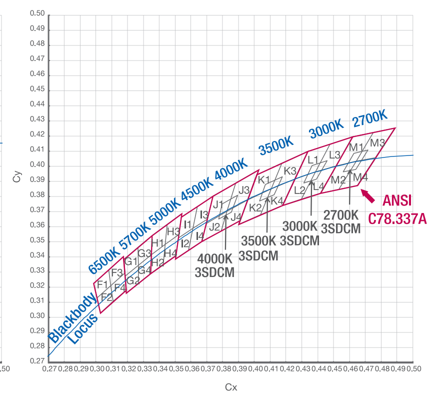
High Power

- Warm White(2700~4000K): 16 Bins
- Cool White(4500~6500K) : 4 Bin



COB

- Warm White(2700~4000K) : 4 Bin -3SDCM Optional
- Cool White(4500~6500K) : 4 Bin



Mid Power

5630 Series

- Size : 5.6×3.0×0.9 mm
- CRI : Min 80

(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
5630 Q	LEMWS59Q80H	5000	150	2.8~3.2	65	25.0	LM 80 Approved
	LEMWS59Q80L	3000				23.0	
5630 Q G2	LEHWS59Q80H	5000	150	2.8~3.2	65	28.2	
	LEHWS59Q80L	3000				25.8	
5630 HE	LEMWS59R80H	5000	200	2.8~3.2	65	30.0	
	LEMWS59R80L	3000				27.0	

5152 Series (HE)

- Size : 5.1×5.2×1.0 mm
- CRI : Min 80

(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
5152 HE	LEMWS51R80H	5000	150	2.7~3.0	65	29.0	LM 80 Approved
	LEMWS51R80L	3000				27.0	
5152 HE G2	LEMWS51R80H	5000	150	2.7~3.0	65	31.7	
	LEMWS51R80L	3000				28.5	

6030 Series

- Size : 6.0×3.0×0.8 mm
- CRI : Min 80

(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
6030	LEMWS68T80H	5000	240	2.8~3.2	130	52.8	LM 80 Approved
	LEMWS68T80L	3000				48.4	

7030 Series

- Size : 7.0×3.0×0.8 mm
- CRI : Min 80

(Ta=25℃)

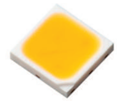
Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
7030	LEMWS73V80H	5000	280	2.8~3.2	200	82.2	
	LEMWS73V80L	3000				76.5	

Note) 1. Specifications can be changed without prior notice.
2. CRI indicates minimum value and luminous flux indicates typical value.
3. All LED components are available in various CCTs.

Mid Power & High Power

3030 Series

- Size : 3.0×3.0×0.6 mm
- CRI : Min 80



(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
3030 0.5 W	LEMWS36U80H LEMWS36U80L	5000 3000	200	2.9~3.3	150	57.9 52.0	
3030 0.9 W	LEMWS36X80H LEMWS36X80L	5000 3000	200	5.8~6.6	150	113.4 103.1	

3535 Ceramic Series

- Size : 3.4×3.4×2.09 mm
- CRI : Min 70/75 (4500~6500K), Min 80 (2700~4000K)

(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
3535 1W	LEMWA31X70H LEMWA31X80L	5000 3000	700	2.9~3.3	350	122.7 106.0	
3535 2W	LEMWA32X70/75H LEMWA32X80L	5000 3000	1000	2.9~3.2	350	122.7 106.0	
3535 3W	LEMWA33X70/75H LEMWA33X80L	5000 3000	1500	2.9~3.2	350	135.0 108.0	LM 80 Approved

5152 Series (1W)

- Size : 5.1×5.2×1.0 mm
- CRI : Min 80

(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
5152 1W	LEMWH51X80H LEMWH51W80L	5000 3000	450	2.9~3.3	300	120.0 117.3	

5250 HV Series

- Size : 5.2×5.0×1.0 mm
- CRI : Min 80

(Ta=25℃)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
5250 HV	LEHWH51Y80H LEHWH51Y80L	5000 3000	25	63.5~71.5	20	163.0 143.0	

Note) 1. Specifications can be changed without prior notice.
2. CRI indicates minimum value and luminous flux indicates typical value.
3. All LED components are available in various CCTs.

COB

4W COB

(Ta=25℃)

- Size : 14.0×14.0×1.6 mm
- CRI : Min 78 (4500~5700K), Min 80 (2700~4000K)

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
4W	LEMWM11375H	5000	500	9.0~10.0	400	448	LM 80 Approved
	LEMWM11380L	3000				430	

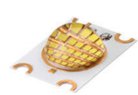
10W/13W/17W/24W COB

(Ta=25℃)

- Size : 18.0×24.0×1.45 mm
- CRI : Min 80

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
10W	LEMWM18580H	5000	520	36.5~39.5	260	1097	LM 80 Approved
	LEMWM18580L	3000				998	
13W	LEMWM18680H	5000	680	36.5~39.5	340	1421	LM 80 Approved
	LEMWM18680L	3000				1350	
	LEMWM18690L	3000				1040	High CRI,Min 90
17W	LEMWM18780H	5000	940	36.5~39.5	470	1940	
	LEMWM18780L	3000				1800	
24W	LEMWM18880H	5000	1280	36.5~39.5	640	2568	(Ta=25℃)
	LEMWM18880L	3000				2400	

60W COB



(Ta=25℃)

- Size : 23.0×31.0×9.3 mm
- CRI : Min 75

Category	Part Number	CCT (K)	Max Current (mA)	Forward Voltage (V)	Forward Current (mA)	Luminous Flux (lm)	Remark
60W	LEMWA23A75HWP0	5000	1600	54.5	1100	6600	Under Dev.

Note) 1. Specifications can be changed without prior notice.
2. CRI indicates minimum value and luminous flux indicates typical value.
3. All LED components are available in various CCTs.

RGB & UV

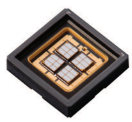
3528 RGB Series

- Size : 3.5×2.8×1.4 mm
- Lighting Color : Red, Blue, Green, White

(Ta=25℃)

Category	Part Number	Lighting Color	Max Current (mA)	Forward Current (mA)	Forward Voltage (V)	Luminous Intensity (mcd)	White
3528 RGB	LEMCS32F00AZ01	Red	70	20	1.6~2.4	700	2,000mcd (Red : 18mA, Green : 13mA, Blue : 10mA)
		Blue	30	20	2.7~3.5	400	
		Green	30	20	2.8~3.6	1600	

UV



- Optical Power : 11mW ~ 400mW(Near UV), 1.0mW(Deep UV)
- Near UV(385nm, 365nm), Deep UV(280nm)

(Ta=25℃)

Category		Part Number	Size (LxWxH mm)	Peak Wavelength (nm)	Optical power (mW)	Directivity (degree)	Forward Voltage (V)	IF (mA)
Near UV	1 in 1	LEUVH66T00MV01	6.0x6.0x1.2	385	400	124	3.6	500
	1 in 1	LEUVS33G10TZ00	3.5x2.8x0.6	385	11	130	3.4	20
	4 in 1	LEUVA77V20RV00	6.8x6.8x1.45	365	1200	110	17.3 (max)	500
Deep UV	1 in 1	LEUVA44A50IF00	4.5x4.5x1.6	280	1.0	108	7.0 (max)	20

Note) 1. Specifications can be changed without prior notice.

Solution Partners

LG Innotek provides the total LED solutions through our world-wide business partners.

• Thermal Solutions

Region	Company Name	
Korea		TTM

• Optical Solutions

Secondary Optic and Reflector Solutions for High Power(3535 Ceramic Series) and COB Series.

Region	Company Name	
Korea		BOEIM
		Any Casting
America		FRAEN Corporation SRL
UK		Polymer - optics Ltd.,
Italy		KHATOD Optoelectronics
Finland		LEDIL
Taiwan		Ledlink
China		BICOM

• Electical Solutions

Region	Company Name	
Korea		Orientech
		Dongdo Electronics
		Silicon Works
Taiwan		Phihong

• Connector / Socket Solutions for COB Series

Region	Company Name	
America		Ideal Industries
		TE Connectivity
		Molex
Germany		BJB
Italy		AAG. STUCCHI

Flat Light Array

Linear/Square Type LED Module

- Standard Type Flat Type Module
  -Integrated LED, PCB and Connector
- Available in Various Types(Linear/Square), Sizes and Luminous Flux

[Linear Type]

CELM-1 (280X20, 1100lm)

CELM-2 (280X40, 800lm)

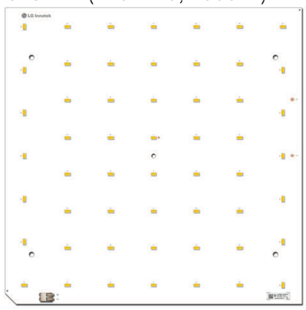
CELM-3 (280X40, 1100lm)

CELM-4 (280X40, 1200lm)

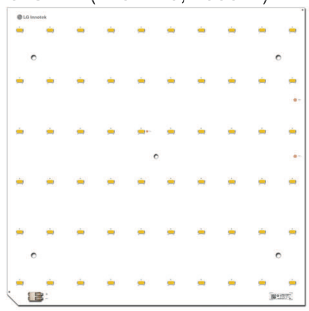
CELM-5 (560X40, 2500lm)

[Square Type]

CESM-1 (270X270, 1500lm)



CESM-2 (270X270, 4000lm)

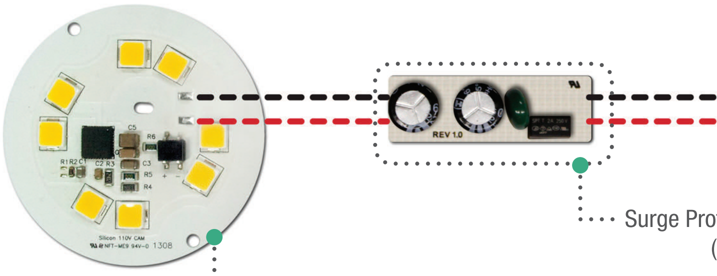


Specification

Type	Size	Model Number	CCT (K)	Luminous Flux (lm)	Module Efficacy (lm/W)	CRI	Power Consumption (W)	Input Current (mA)	Input Voltage (V)
Linear Type	CELM-1 (280x20)	LLFML31-11K601C	5000	1080	110	>80	10	380	25.6
		LLFML31-11K401C	4000	1080	110				
		LLFML31-11K301C	3500	1040	105				
		LLFML31-11K201C	3000	1030	104				
	CELM-2 (280x40)	LLFML31-08L601A	5000	800	110	>80	7.3	190	38.4
		LLFML31-08L401A	4000	800	110				
		LLFML31-08L301A	3500	780	105				
		LLFML31-08L201A	3000	770	104				
	CELM-3 (280x40)	LLFML31-10K601A	5000	1080	110	>80	10	380	25.6
		LLFML31-10K401A	4000	1080	110				
		LLFML31-10K301A	3500	1040	105				
		LLFML31-10K201A	3000	1030	104				
	CELM-4 (280x40)	LLFML31-10K601B	5000	1210	110	>80	10.9	380	28.7
		LLFML31-10K401B	4000	1210	110				
		LLFML31-10K301B	3500	1170	105				
		LLFML31-10K201B	3000	1160	104				
	CELM-5 (560x40)	LLFML61-22L601A	5000	2430	110	>80	21.9	570	38.4
		LLFML61-22L401A	4000	2430	110				
		LLFML61-22L301A	3500	2350	105				
		LLFML61-22L201A	3000	2330	104				
Square Type	CESM-1 (270x270)	LLFML33-13K601A	5000	1480	110	>80	13.3	462	28.8
		LLFML33-13K401A	4000	1480	110				
		LLFML33-13K301A	3500	1450	109				
		LLFML33-13K201A	3000	1430	107				
	CESM-2 (270x270)	LLFML33-37M601A	5000	4100	110	>80	36.5	760	48
		LLFML33-37M401A	4000	4100	110				
		LLFML33-37M301A	3500	3930	105				
		LLFML33-37M201A	3000	3900	104				

10W AC Direct Module

- Coil-free and Transformer-free AC Direct Solution
- High Power Factor : 93% PF and 20% THD Typical
- Valley Fill Filter for Improved Flickering (Optional)



Surge Protection Mini Board (Optional)

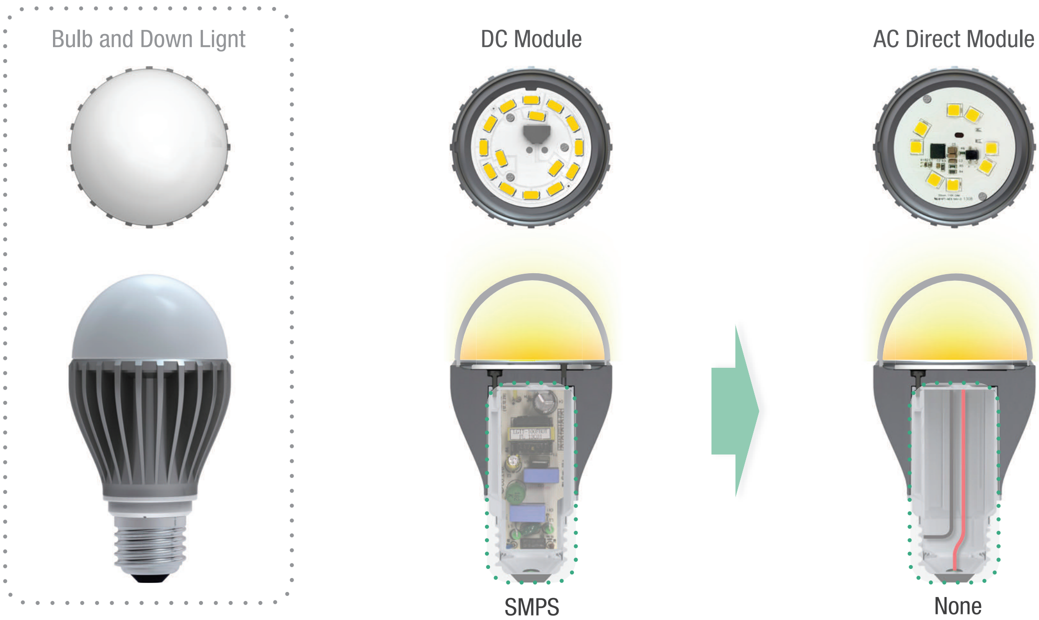
5250 High Voltage LED Applied

Specification

Type	CCT (K)	Luminous Flux (lm)	CRI	Efficacy (lm/W)	Power Consumption (W)	Input Voltage (V)	Power Factor	THD (%)	Size (mm)
10W AC Direct Module	5000	890	>80	89	10	120	0.9	30	Ø49
	3000	830		83					

Application

- Increased Design Flexibility
  -Reduced Size of Heatsink and Fixture
- Best Solution for Bulb and Down Light



ModulA Up & Down

Edge Type LED Flat Module

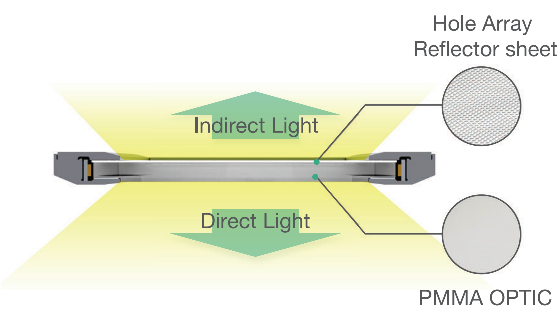
- An Edge-lit LED Flat Module Illuminating both Up and Downward
  -Ratio of Indirect/Direct Lighting: 20:80, 30:70, 50:50, 0:100
- Increased Design Flexibility
  -Slim Profile(8.5mm) and Multiple Unit Connectivity
- Dimension(mm) : 100(W) x 8.5(H) x 560(L)

Specification

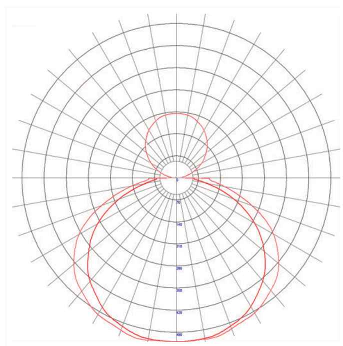
Type	CCT (K)	Luminous Flux (lm)	CRI	Efficacy (lm/W)	Power Consumption (W)	Input Current (mA)	Input Voltage (V)	LES* (mm)
1 Module	4000	2850	>80	89	32	1040	31	65
	3500	2750		85				
	3000	2700		84				

*LES(Lighting Emitting Surface)

Ratio of Indirect / Direct Light

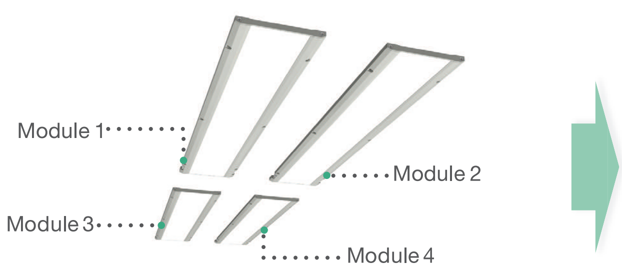


Light Distribution

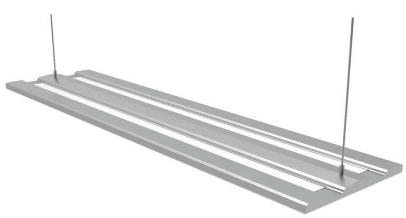


Application

- Module Connection



- Luminaire

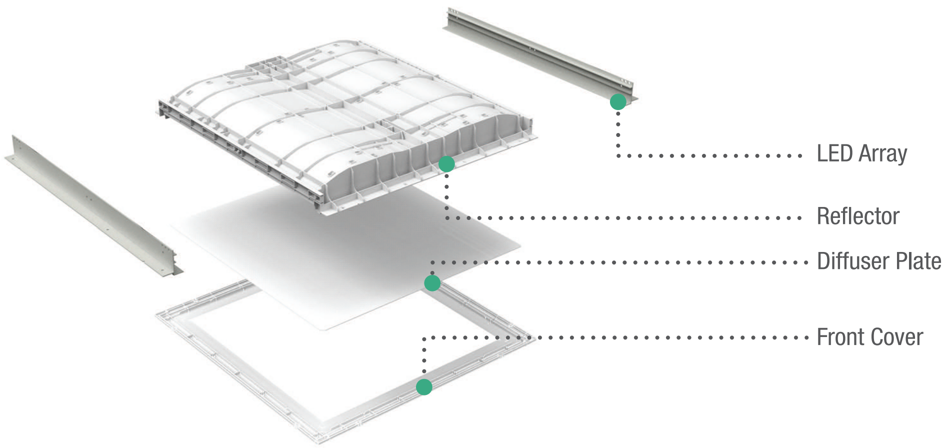


ReflectA Free

Edge Type LED Lighting

- Innovative Technology without Light Guide Plate
- Excellent Uniformity in Slim Profile and Low Weight
- 3 Different Sizes Available : 1’x4’, 2’x2’, 2’x4’
- LED Array, Reflector, Diffuser Plate and Front Cover Available

Business Model



Specification

Type	Model Number	CCT (K)	Luminous Flux (lm)	Module Efficacy (lm/W)	CRI	Power Consumption (W)	Input Current (mA)	Input Voltage (V)	MacAdam Step	Weight (kg)
1’x4’	LLFMLC3-38K608A	5000	3296	97	>80	34	1040	29~32	4.5 SDCM	2.7
	LLFMLC3-38K408A	4000	3200	94.1						
	LLFMLC3-38K308A	3500	3150	92.6						
	LLFMLC3-38K606A	5000	3296	97	>80	34	1040	29~32	3 SDCM	2.7
	LLFMLC3-38K406A	4000	3200	94.1						
	LLFMLC3-38K306A	3500	3150	92.6						
2’x2’	LLFML66-38K608A	5000	3140	92.4	>80	34	1040	29~32	4.5 SDCM	2.8
	LLFML66-38K408A	4000	3080	90.5						
	LLFML66-38K308A	3500	3070	90.3						
	LLFML66-38K606A	5000	3140	92.4	>80	34	1040	29~32	3 SDCM	2.8
	LLFML66-38K406A	4000	3080	90.5						
	LLFML66-38K306A	3500	3070	90.3						
2’x4’	LLFMLC6-52K608A	5000	4700	88.6	>80	50	1560	29~32	4.5 SDCM	6.5
	LLFMLC6-52K408A	4000	4650	87.6						
	LLFMLC6-52K308A	3500	4600	86.7						
	LLFMLC6-52K606A	5000	4700	88.6	>80	50	1560	29~32	3 SDCM	6.5
	LLFMLC6-52K406A	4000	4650	87.6						
	LLFMLC6-52K306A	3500	4600	86.7						

Eagle Eye

Outdoor LED Module

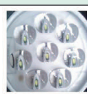
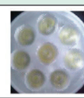
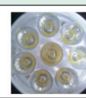
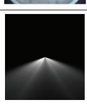
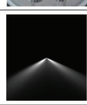
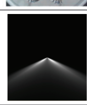
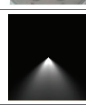
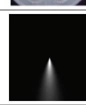
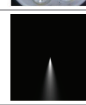
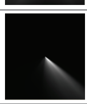
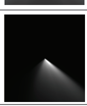
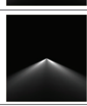
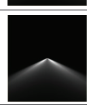
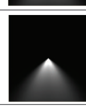
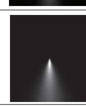
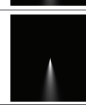
- Slim and Unique Round Design(Dimension: ø76.5xH12.3mm)
- Sealed(IP67) to Endure in Severe Conditions
- Integrated LED Array, Lens and Front Cover

Specification

Lens Type (Beam Angle)	Model Number	CCT (K)	Luminous Flux (lm)	Module Efficacy (lm/W)	CRI	Power Consumption (W)	Input Current (mA)	Input Voltage (V)
Type II (H:160° - V:70°)	LLDMWW0-15K901A	6500	1430	91	>70	16	650	26
	LLDMWW0-15K701A	5700	1430	91				
	LLDMWW0-15K401A	4000	1220	74	>80			
	LLDMWW0-15K201A	3000	1170	71				
Type III (H:135° - V:60°)	LLDMWW0-15K902A	6500	1580	98	>70	16	650	26
	LLDMWW0-15K702A	5700	1580	98				
	LLDMWW0-15K402A	4000	1320	79	>80			
	LLDMWW0-15K202A	3000	1280	78				
Type V (Square 130°)	LLDMWW0-15K903A	6500	1550	97	>70	16	650	26
	LLDMWW0-15K703A	5700	1550	97				
	LLDMWW0-15K403A	4000	1280	77	>80			
	LLDMWW0-15K203A	3000	1230	75				
Type V (Circle 130°)	LLDMWW0-15K904A	6500	1550	97	>70	16	650	26
	LLDMWW0-15K704A	5700	1550	97				
	LLDMWW0-15K404A	4000	1300	78	>80			
	LLDMWW0-15K204A	3000	1240	73				
Type V (Circle 115°)	LLDMWW0-15K905A	6500	1650	103	>70	16	650	26
	LLDMWW0-15K705A	5700	1650	103				
	LLDMWW0-15K405A	4000	1350	81	>80			
	LLDMWW0-15K205A	3000	1300	80				
Type V (Circle 30°)	LLDMWW0-15K906A	6500	1590	99.5	>70	16	650	26
	LLDMWW0-15K706A	5700	1590	99.5				
	LLDMWW0-15K406A	4000	1330	81	>80			
	LLDMWW0-15K206A	3000	1270	78				
Type V (Circle 20°)	LLDMWW0-15K907A	6500	1580	98.5	>70	16	650	26
	LLDMWW0-15K707A	5700	1580	98.5				
	LLDMWW0-15K407A	4000	1300	78	>80			
	LLDMWW0-15K207A	3000	1260	77				

*Maximum Input Current : 750mA

Lens Information

Lens Type	Type II (H:160° V:70°)	Type III (H:135° V:60°)	Type V (Square 130°)	Type V (Circle 130°)	Type V (Circle 115°)	Type V (Circle 30°)	Type V (Circle 20°)
Lens Image							
Horizontal View							
Vertical View							
Application	Street Lightings		Security, Parking Lot, Canopy Lightings			Flood Lightings (Narrow Angle)	

Downlight

- Output Wattage Range : 5W~34W
- Protections : OVP, OTP, SCP
- Function : TRIAC or 0-10V dimming, Zigbee communication
- CC Control

Model	Output (W)	Output (Vdc)	Output (A)			Input (Vac)	Dim.	PF	Efficiency	Dimension (LxWxH mm)
			Min	Typ	Max					
PIDA-C201A	10W	36-42	-	0.21	-	120-277	TRIAC	>0.9	>78	60x75x34
PIDA-C210B	10W	36-42	-	0.21	-	120 only	TRIAC	>0.9	>80	60x75x34
PIDA-C240A	10W	33-40	-	0.24	-	120 only	TRIAC	>0.9	>80	60x75x34
PIDB-L213W	13W	25-28	0.38	0.40	0.42	100-240	Zigbee	>0.9	>80	83x155x33
PIDB-L223W	23W	28-31	0.61	0.64	0.67	100-240	Zigbee	>0.9	>80	83x155x33
PIDC-L233A	34W	30-34	-	0.86	-	120-277	0-10V	>0.9	>80	75x120x35

Flat

- Output Wattage Range : 26W~75W
- Protections : OVP, OTP, SCP
- Function : 0-10V dimming, IR or DALI communication
- CC Control

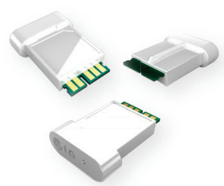
Model	Output (W)	Output (Vdc)	Output (A)			Input (Vac)	Dim.	PF	Efficiency	Dimension (LxWxH mm)
			Min	Typ	Max					
PIHB-L201B	26W	23-25	-	0.88	-	120-277	0-10V, IR	>0.9	>80	43x300x28
PIFC-C201A	37W	19-23	0.80	-	1.61	120-277	0-10V	>0.9	>83	30x397x26
PIFC-I201A	37W	26-34	-	1.04	-	100-277	0-10V	>0.9	>83	30x360x26
PIFK-I037A	37W	43-70	0.55	-	0.76	120-277	0-10V	>0.9	>83	30x360x26
PIFK-I044A	44W	33-60	0.80	-	1.08	120-277	0-10V	>0.9	>83	30x360x26
PCIM-L101A	48W	18-24	1.40	-	2	120-277	0-10V	>0.9	>83	30x397x26
PIFC-K250A	50W	34-45	-	0.95	-	100-240	-	>0.9	>82	48x220x35
PIFC-L202A	50W	23-25	-	0.45x4	-	100-240	DALI	>0.9	>83	137x175x30
PIFK-I052A	52W	27-30	-	1.80	-	120-277	0-10V	>0.9	>83	30x360x26
PIFC-I202A	55W	26-34	1	-	1.56	120-277	0-10V	>0.9	>83	30x360x26
PIFN-C072A	75W	28-34	-	3.06	-	120-277	0-10V	>0.9	>84	TBD

Outdoor

- Output Wattage Range : 48W~150W
- Protections : OVP, OTP, SCP
- Function : 0-10V dimming
- CC & CV Control

Model	Output (W)	Output (Vdc)	Output (A)			Input (Vac)	Dim.	PF	Efficiency	Dimension (LxWxH mm)
			Min	Typ	Max					
PISC-C201A	48W	18-25	-	2	-	120-277	0-10V	>0.9	>83	48x139x32
PISN-C100A	100W	15-24	-	4.1	-	120-277	0-10V	>0.9	>84	59x228x40
PISD-W201B	100W	20-26	2.4	-	4	100-277	0-10V	>0.9	>91.5	68x228x38
PISD-W201C	100W	28-37	2	-	2.7	100-277	0-10V	>0.9	>92	68x228x38
PISD-W201D	100W	38-50	1.3	-	2	100-277	0-10V	>0.9	>92.5	68x228x38
PISE-W202B	120W	20-26	3	-	5	100-277	0-10V	>0.9	>92	68x228x38
PISE-W202C	120W	28-37	2.5	-	3.4	100-277	0-10V	>0.9	>92.5	68x228x38
PISE-W202D	120W	38-50	1.6	-	2.5	100-277	0-10V	>0.9	>93	68x228x38
PISE-W205B	150W	20-26	3.8	-	6.3	100-277	0-10V	>0.9	>92.5	68x228x38
PISE-W205C	150W	28-37	3.1	-	4.2	100-277	0-10V	>0.9	>93	68x228x38
PISE-W205D	150W	38-50	2.1	-	3.2	100-277	0-10V	>0.9	>93.5	68x228x38
PISE-Z101A	150W	120-280	-	0.53	-	120-277	0-10V	>0.9	>89	59x243x42
PISE-S150A	150W	60-215	-	0.7	-	120-277	0-10V	>0.9	>89	59x243x42
PISE-Z202B	150W	30-54	-	0.7x4	-	120-277	0-10V	>0.92	>87	85x224x42

Wireless Control



- Small Size Common Platform Module for Zigbee/ BLE/ Z-Wave
- Intelligent Energy Saving Control for PSU(UART&PWM)
- 5-Pin Connection with Power Unit (Lighting/ HA/ Smart-metering)
- Supported Wireless S/W Update, Own/Standard Protocol

Model No.	Product	Frequency (GHz)	RF Spec. (dBm)		Range (m)	MCU	Current Consumption (mA)	Dimension (L×W×H mm)
			Tx	Rx				
TWZT-T001D-H	Zigbee Module	2.4	4.5	-90	40 / LOS	Optimized 8051	45	29x22x7.7
-	BLE Module	2.4	4	-90	40 / LOS	Optimized 8051	25	29x22x7.7
-	Z-wave Module	Sub_Giga	0	-95	40 / LOS	Optimized 8051	40	29x22x7.7

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