

[About Samsung Electronics Co., Ltd.](#)

Samsung Electronics Co. Ltd inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at <http://news.samsung.com>.

Copyright 2019 Samsung Electronics Co., Ltd. All rights reserved.
Samsung Electronics reserves the right to modify, at its sole discretion, the design, packaging, specifications, and features shown herein without notice at any time.

Samsung Electronics Co., Ltd.
Samsung-ro 1, Giheung-gu, Yongin-si,
Gyeonggi-do, 17113 Korea

www.samsungled.com



Samsung LED
Chip Scale Package
LEDs



Industry's only full line-up - from mid to high power

Ideal replacement for lighting applications



FEC CSPs

Well-Equipped for Mainstream Performance

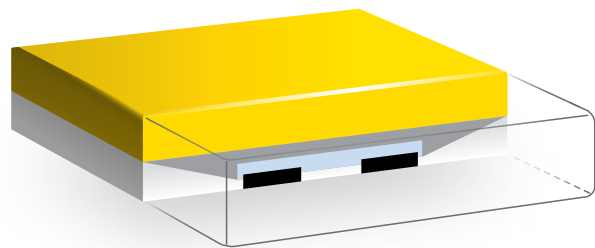
FEC technology brings standard viewing angle and Industry-leading efficacy to accentuate performance required by mainstream market. Also has less than 2% cross-talk making it best fit for tunable lighting solutions.

Application

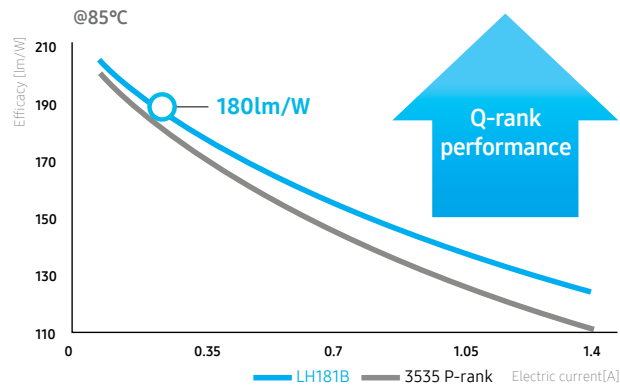
Spot lighting, Highbay lighting,
Parking lot lighting, Canopy lighting

Product

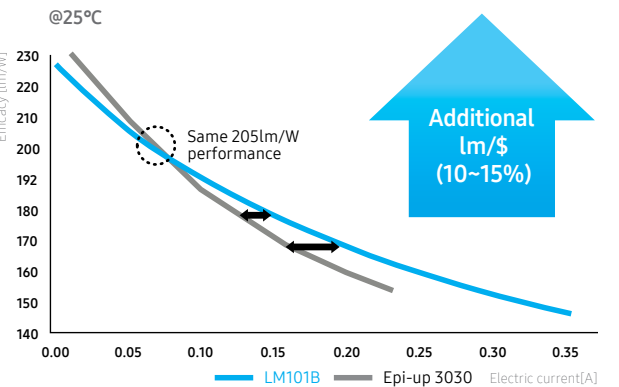
LM101B, LH181B, LH231B



High Power



Mid Power



Line-up

Product	Key Features	Efficacy (lm/W)	Lifespan
 LM101B	0.5W class mid power 3V LED - Industry-highest efficacy among mid power CSP LEDs - Less cross-talk	●●●●●	●●●●○
 LH181B	- Operates at a maximum current of up to 1.4A - Industry-highest efficacy among high power CSP LEDs - Less cross-talk	●●●●●	●●●●○
 LH231B	5W class super high power CSP - Suitable for highbay lighting, stadium lighting	●●●●●	●●●●○
 CSP Spot Tunable Gen 2	1,000/2,000lm color tunable solutions with a small LES - Lifetime: 50,000 hours	●●●●○	●●●●○
 Modular Platform T-type Gen 2.5	- Total solution integrating LED+Optics+Thermal - With LH181A, higher lumen density of 2,900lm - IP66	●●●●○	●●●●○
 HiLOM	- Greater design flexibility for various fixture designs - High performance, 4,400lm (700mA) with efficacy of 132lm/W - Compatible with LEDiL	●●●●●	●●●●○



Product Line-up

I Package

LM101B



- 0.5W class mid power 3V LED
- Compact footprint: 1.7mm × 1.7mm

@150mA, 85°C					
CRI	CCT (K)	Part Number	Luminous Flux (lm)		
			Bin	Min.	Max.
70+	2700	SCP7WT78HEL1WNS06E	SE	59	63
			SF	63	67
	3000	SCP7VT78HEL1VNS06E	SF	63	67
			SG	67	71
	3500	SCP7UT78HEL1UNNS06E	SF	63	67
			SG	67	71
	4000	SCP7TT78HEL1TNS06E	SG	67	71
			SH	71	75
	5000	SCP7RT78HEL1RNS06E	SG	67	71
			SH	71	75
80+	5700	SCP7QT78HEL1QNS06E	SF	63	67
			SG	67	71
	6500	SCP7PT78HEL1PNS06E	SF	63	67
			SG	67	71
	2700	SCP8WT78HEL1WNS06E	SD	55	59
			SE	59	63
	3000	SCP8VT78HEL1VNS06E	SE	59	63
			SF	63	67
	3500	SCP8UT78HEL1UNNS06E	SE	59	63
			SF	63	67
90+	4000	SCP8TT78HEL1TNS06E	SF	63	67
			SG	67	71
	5000	SCP8RT78HEL1RNS06E	SF	63	67
			SG	67	71
	5700	SCP8QT78HEL1QNS06E	SE	59	63
			SF	63	67
	6500	SCP8PT78HEL1PNS06E	SE	59	63
			SF	63	67
	2700	SCP9WT78HEL1WNS06E	SA	43	47
			SB	47	51
90+	3000	SCP9VT78HEL1VNS06E	SA	43	47
			SB	47	51
	3500	SCP9UT78HEL1UNNS06E	SB	47	51
			SC	51	55
	4000	SCP9TT78HEL1TNS06E	SB	47	51
			SC	51	55
	5000	SCP9RT78HEL1RNS06E	SB	47	51
			SC	51	55

* “☆” can be “L” (MacAdam 5-step ellipse bin), “U” (MacAdam 3-step ellipse bin) of the color binning

Product Line-up

I Package

LH181B



- 3W class high power CSP
- Higher performance by applying new structure
- Compact footprint: 2.36mm x 2.36mm

@ 350mA, 85°C

CRI	CCT (K)	Part Number	Luminous Flux (lm)		
			Bin	Min.	Max.
70+	2700	SCP7WTF1HEL1W◇M34E	M1, N1, P1	140	170
	3000	SCP7VTF1HEL1V◇N34E	N1, P1, Q1	150	180
	3500	SCP7UTF1HEL1U◇N34E	N1, P1, Q1	150	180
	4000	SCP7TTF1HEL1T◇P34E	P1, Q1, R1	160	190
	5000	SCP7RTF1HEL1R◇P34E	P1, Q1, R1	160	190
	5700	SCP7QTF1HEL1Q◇P34E	P1, Q1, R1	160	190
	6500	SCP7PTF1HEL1P◇N34E	N1, P1, Q1	150	180
80+	2200	SCP8YTF1HEL1Y◇G34E	G1, H1, J1	100	130
	2700	SCP8WTF1HEL1W◇K34E	K1, M1, N1	130	160
	3000	SCP8VTF1HEL1V◇K34E	K1, M1, N1	130	160
	3500	SCP8UTF1HEL1U◇M34E	M1, N1, P1	140	170
	4000	SCP8TTF1HEL1T◇M34E	M1, N1, P1	140	170
	5000	SCP8RTF1HEL1R◇N34E	N1, P1, Q1	150	180
	5700	SCP8QTF1HEL1Q◇N34E	N1, P1, Q1	150	180
	6500	SCP8PTF1HEL1P◇M34E	M1, N1, P1	140	170
90+	2700	SCP9WTF1HEL1W◇G34E	G1, H1, J1	100	130
	3000	SCP9VTF1HEL1V◇G34E	G1, H1, J1	100	130
	3500	SCP9UTF1HEL1U◇H34E	H1, J1, K1	110	140
	4000	SCP9TTF1HEL1T◇H34E	H1, J1, K1	110	140
	5000	SCP9RTF1HEL1R◇H34E	H1, J1, K1	110	140

* ◇ can be "K" (MacAdam 5-step ellipse bin), "U" (MacAdam 3-step ellipse bin) of the color binning

LH231B



- 5W class super high power CSP
- Suitable for highbay lighting, stadium lighting
- Compact footprint: 2.8mm x 2.8mm

@ 700mA, 85°C

CRI	CCT (K)	Part Number	Luminous Flux (lm)		
			Bin	Min.	Max.
70+	2700	SCP7WTJ5HEL1W☆MF6E	MB, NB, PB	250	310
	3000	SCP7VTJ5HEL1V☆NF6E	NB, PB, QB	270	330
	3500	SCP7UTJ5HEL1U☆PF6E	PB, QB, RB	290	350
	4000	SCP7TTJ5HEL1T☆QF6E	QB, RB, SB	310	370
	5000	SCP7RTJ5HEL1R☆QF6E	QB, RB, SB	310	370
	5700	SCP7QTJ5HEL1Q☆QF6E	QB, RB, SB	310	370
	6500	SCP7PTJ5HEL1P☆PF6E	PB, QB, RB	290	350
80+	2700	SCP8WTJ5HEL1W☆MF6E	MB, NB, PB	250	310
	3000	SCP8VTJ5HEL1V☆MF6E	MB, NB, PB	250	310
	3500	SCP8UTJ5HEL1U☆NF6E	NB, PB, QB	270	330
	4000	SCP8TTJ5HEL1T☆NF6E	NB, PB, QB	270	330
	5000	SCP8RTJ5HEL1R☆PF6E	PB, QB, RB	290	350
	5700	SCP8QTJ5HEL1Q☆NF6E	NB, PB, QB	270	330
	6500	SCP8PTJ5HEL1P☆NF6E	NB, PB, QB	270	330
90+	2700	SCP9WTJ5HEL1W☆HF6E	HB, JB, KB	190	250
	3000	SCP9VTJ5HEL1V☆HF6E	HB, JB, KB	190	250
	3500	SCP9UTJ5HEL1U☆JF6E	JB, KB, MB	210	270
	4000	SCP9TTJ5HEL1T☆JF6E	JB, KB, MB	210	270

* ☆☆ can be "L" (MacAdam 5-step ellipse bin), "U" (MacAdam 3-step ellipse bin) of the color binning

Product Line-up

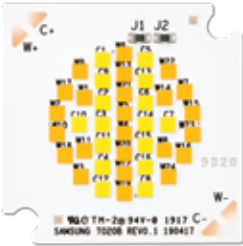
I Module

CSP Spot Tunable

- 1000/2000lm color tunable solutions with a small LES
- Lifetime: 50,000 hours



SM 28x28mm 1000lm (TO10)



SM 28x28mm 2000lm (TO20)

Product	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	Imax (mA)	Efficacy (lm/W)	Tp (°C)	CRI	CCT (K)	Size (mm)	Temperature Range (°C)	Certification	Part Number
SM 28x28mm 1000lm 827-65 TU G2 (TO10)	1060	8.3	23.7	350	350	128	65	80+	2700	28 x 28 x 2.2	-20~+50	TBD	TBD
	1020	8.9	25.3			115			6500				
SM 28x28mm 1000lm 827-50 TU G2 (TO10)	1060	8.3	23.7	350	350	128	65	80+	2700	28 x 28 x 2.2	-20~+50	TBD	TBD
	1090	8.9	25.3			123			5000				
SM 28x28mm 2000lm 827-65 TU G2 (TO20)	2050	17	24.3	700	700	121	65	80+	2700	28 x 28 x 2.2	-20~+50	TBD	TBD
	2040	17.7	25.3			115			6500				
SM 28x28mm 2000lm 827-50 TU G2 (TO20)	2050	17	24.3	700	700	121	65	80+	2700	28 x 28 x 2.2	-20~+50	TBD	TBD
	2180	17.7	25.3			123			5000				

Modular Platform Engine

- Total solution integrating LED+Optics+Thermal
- With LH181A, higher lumen density of 2,900lm
- IP66



RM 150x65mm 2900lm G2.5 (T-type Gen 2.5, LH181A)

Model	Light Distribution Type	Connector	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	Imax (mA)	Efficacy (lm/W)	CRI	CCT (K)	Weight (g)	Temperature Range (Operation, Tc)	Certification	Part Number
RM150x65mm 2900lm 8xx G2.5 (T-type Gen 2.5, LH181A)	Type2 Short	Connector	2600	20	28	700	1000	130.0	80+	3000	290	+10~+92	CE,UL	SL-P8V2W6RA1WW
	Type2 Short		2800					140.0		4000				SL-P8T2W6RA1WW
	Type2 Short		2900					145.0		5000				SL-P8R2W6RA1WW
	Type2 Short		2900					145.0		5700				SL-P8Q2W6RA1WW
	Type1 Very Short	Connector	2800	20	28	700	1000	140	80+	4000	290	+10~+92	CE,UL	SL-P8T2W6SA1WW
	Type1 Very Short		2900					145		5000				SL-P8R2W6SA1WW
	Tunnel		2900					145		5000				SL-P8R2W6TA1WW
	Tunnel		2900					145		5700				SL-P8Q2W6TB1WW

Product Line-up

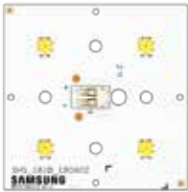
I Module

HiLOM

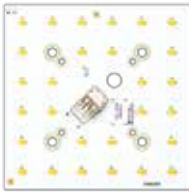
- Greater design flexibility for various fixture designs
- High performance, 4,400lm (700mA) with efficacy of 132lm/W
- Compatible with LEDiL



CM 250mm 25700lm (HiLOM-HCF0)



SM 73x73mm 7200lm (HiLOM-SC16)



SM 81x81mm 4700lm (HiLOM-SC28)



SM 81x81mm 2430lm (HiLOM-SM28)



RM 225x50mm 5550lm (HiLOM-RM64)



RM 225x50mm 5400lm (HiLOM-RH16)



RM 146x45mm 4050lm (HiLOM-RH12)

Model	Light Distribution Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	Imax (mA)	Efficacy (lm/W)	CRI	CCT (K)	Weight (g)	Temperature Range (Operation, Tc)	Certification	Part Number
CM 250mm 25700lm 740 G1 (HiLOM-HCF0)	Ledil VICTORIA HB	25700	148.8	45.1	3300	3630	173	70+		240			SL-B7TANB0L2WW
SM 73x73mm 7200lm 740 G1 (HiLOM-SC16)	Ledil STRADA-2*2-MX	7200	59.3	24.9	2100	2310	138	70+		17.5			SL-B7T5N90L2WW
SM 81x81mm 4700lm 740 G1 (HiLOM-SC28)	Ledil STRADELLA-IP-28	4700	27.7	19.8	1400	1540	171	70+		21.2			SL-B7T2N80L2WW
SM 81x81mm 2430lm 840 G1 (HiLOM-SM28)	Ledil STRADELLA-IP-28	2430	13.8	19.7	700	770	176	80+	4000	21.2	-30~+80	CE, UL	SL-B8T1N50L4WW
RM 225x50mm 5550lm 840 G1 (HiLOM-RM64)	Ledil STRADELLA-16 HB	5550	31.5	22.5	1400	1540	176	80+		40.0			SL-B8T3N80L4WW
RM 225x50mm 5400lm 740 G1 (HiLOM-RH16)	Ledil STRADA-2*2	5400	32.9	23.5	1400	1540	164	70+		40.0			SL-B7T3N80LCWW
RM 146x45mm 4050lm 740 G1 (HiLOM-RH12)	Ledil STRADA-IP-2*6	4050	24.7	23.4	700	770	164	70+		32.5			SL-B7T2N70LCWW

I Driver

Down Light Driver



SI-EPF006640WW / SI-EPF006650WW



SI-OU1424001WW



SI-OU1424002WW

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SI-EPF006640WW	15	123 x 79 x 33	120~277	20~50	180~500	86	<20	0~10V	cUL, UL	>0.9	Output Current Adjustable by Rset
SI-EPF006650WW	30				350~1050						
SI-OU1424001WW	40	125.6 x 61.1 x 27.5	120~277	20~54	400~1400	86	<20	0~10V	cUL, UL, Type TL	>0.9	Programmable Output Current, 1% ~ 100% Dimming
SI-OU1424002WW									Class P, cUL, UL		

White Tunable Driver



SLP-DUA0250AUS



SLP-DUA4350AUS



SLP-DUA4550AUS



SLP-DUA025DAWW

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SLP-DUA0250AUS	25	103 x 67 x 29.5	120-277	10-50	350-1000	85	<20	0-10V	cUL, UL	>0.9	Programmable Native White Tuning Dim to Warm Auxiliary Power (24V)
SLP-DUA4350AUS	35	127 x 76.4 x 36.2			350-1400	88					
SLP-DUA4550AUS	55					88					
SLP-DUA025DAWW	25	127 x 76.4 x 36.2	120-277	10-50	350-1000	85	<20	DALI	CE, cUL, ENEC, UL	>0.9	Programmable Device Type 8 Auxiliary Power (24V)

Product Line-up

I Driver

Outdoor Light Driver



SL-L27012517KR



SL-L21425017KR
SL-L22127517KR
SL-L2282A017KR



SL-L2422A517KR
SL-L2562B017KR

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-L27012517KR	25	265 x 70 x 48.5	220-240	27-33	700	86	<20	1-10V	KC, KS	>0.9	Independent Type, IP67, Molex, <THD 30%@1V Dimming, High Surge (±8-10KV)
SL-L21425017KR	50				1400	86.5					
SL-L22127517KR	75				2100	87					
SL-L2282A017KR	100				2800	88.5					
SL-L2422A517KR	150				4200	90.5					
SL-L2562B017KR	200				5600	91					



SL-L27012518KR



SL-L21425018KR
SL-L22127518KR
SL-L2282A018KR



SL-L2422A518KR
SL-L2562B018KR

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-L27012518KR	25	265 x 70 x 48.5	220-240	27-33	700	86	<20	1-10V	KC, KS	>0.9	Independent Type, IP67, Waterproof JST, High Surge (±8-10KV)
SL-L21425018KR	50				1400	86.5					
SL-L22127518KR	75				2100	87					
SL-L2282A018KR	100				2800	88.5					
SL-L2422A518KR	150				4200	90.5					
SL-L2562B018KR	200				5600	91					



SL-L21425019KR



SL-L22127519KR



SL-L2352A213KR

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-L21425019KR	50	182 x 69 x 39.5	220-240	27-33	700	88	<20	Non Dim	KC, KS	>0.95	Independent Type, 2-channel, Available KS cert, KET Connector
SL-L22127519KR	75	182 x 69 x 39.5		27-33	700	90		Non Dim	KC, KS		Independent Type, 3-channel, Available KS cert, KET Connector
SL-L2352A213KR	125	228 x 68 x 39.5		24-33	3500	90		1-10V	KS		Independent Type, IP67, Molex



SL-L2701151AKR
SL-L2701251AKR



SL-L2701301AKR
SL-L2701401AKR



SL-L2701751AKR
SL-L2701A01AKR



SL-L2701A51AKR
SL-L2701B01AKR

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-L2701151AKR	15	177 × 40 × 37	220-240	18-33	700	84	<20	1-10V	KS	>0.9	Independent Type, IP67, KET
SL-L2701251AKR	25					85					
SL-L2701301AKR	30					86					
SL-L2701401AKR	40	210 × 40 × 37		39-63		87					
SL-L2701501AKR	50					88					
SL-L2701751AKR	75					89					
SL-L2701A01AKR	100	182 × 66 × 38.8		85-125		90					
SL-L2701A51AKR	150	228 × 68 × 39.5				91					
SL-L2701B01AKR	200					177-243					

Product Line-up



SL-L2701A5N1KR



SL-L2701B0N1KR

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-L2701A5N1KR	150	258 x 68 x 33.9	220-240	80-100	700	92	<20	Non Dim	KS	>0.9	Independent Type, 2-channel, IP67, KET
SL-L2701B0N1KR	200			100-130		93					



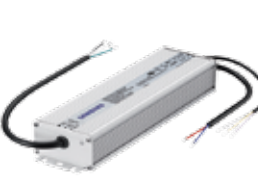
SL-LA7012502US
SL-LA1425002US



SL-L22127502US



SL-LA142A002US



SL-LA212A502US



SL-L2282B002US

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-LA7012502US	25	193 × 42.5 × 34.5	100-277	18-36	700	85	<20	0-10V	cUL, UL	>0.9	Independent Type, IP67
SL-LA1425002US	50	193 × 42.5 × 34.5		18-36	1400	88					
SL-L22127502US	75	173 × 67.5 × 40		18-36	2100	89					
SL-LA142A002US	100	187 × 67.5 × 40		17-34	2800	87					
SL-LA212A502US	150	221 × 67.5 × 40		18-36	4200	88					
SL-L2282B002US	200	251 × 67.5 × 40		18-36	5600	88					



SL-LU0923501US



SL-LU1425501US



SL-LU2027801US



SL-LU262A001US

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-LU0923501US	35	193 × 42.5 × 34.5	120-277	30-39	700-1050	87	<20	0-10V	cUL, UL	>0.9	Programmable Output Current, IP67
SL-LU1425501US	55	173 × 67.5 × 40			1400	88					Independent Type, IP67
SL-LU2027801US	78	173 × 67.5 × 40			2000	88					
SL-LU262A001US	100	187 × 67.5 × 40			2600	88					



SL-LA212A001WW



SL-LA212A003WW

Part Number	Power Consumption (W)	Size (mm)	Input Voltage (V)	Output Voltage (V)	Output Current/ch (mA)	Efficiency (%)	THD (%)	Dimming	Certification	Power Factor	Remark
SL-LA212A001WW	100	Φ130 x 70	120-240	29-71	140-2100	90.5	<20	0-10V	CE, ENEC	>0.9	Independent Type, Programmable Output Current, IP65
SL-LA212A003WW		187 × 67.5 × 37									Independent Type, Programmable Output Current, IP67