

Legal and additional information

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, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com

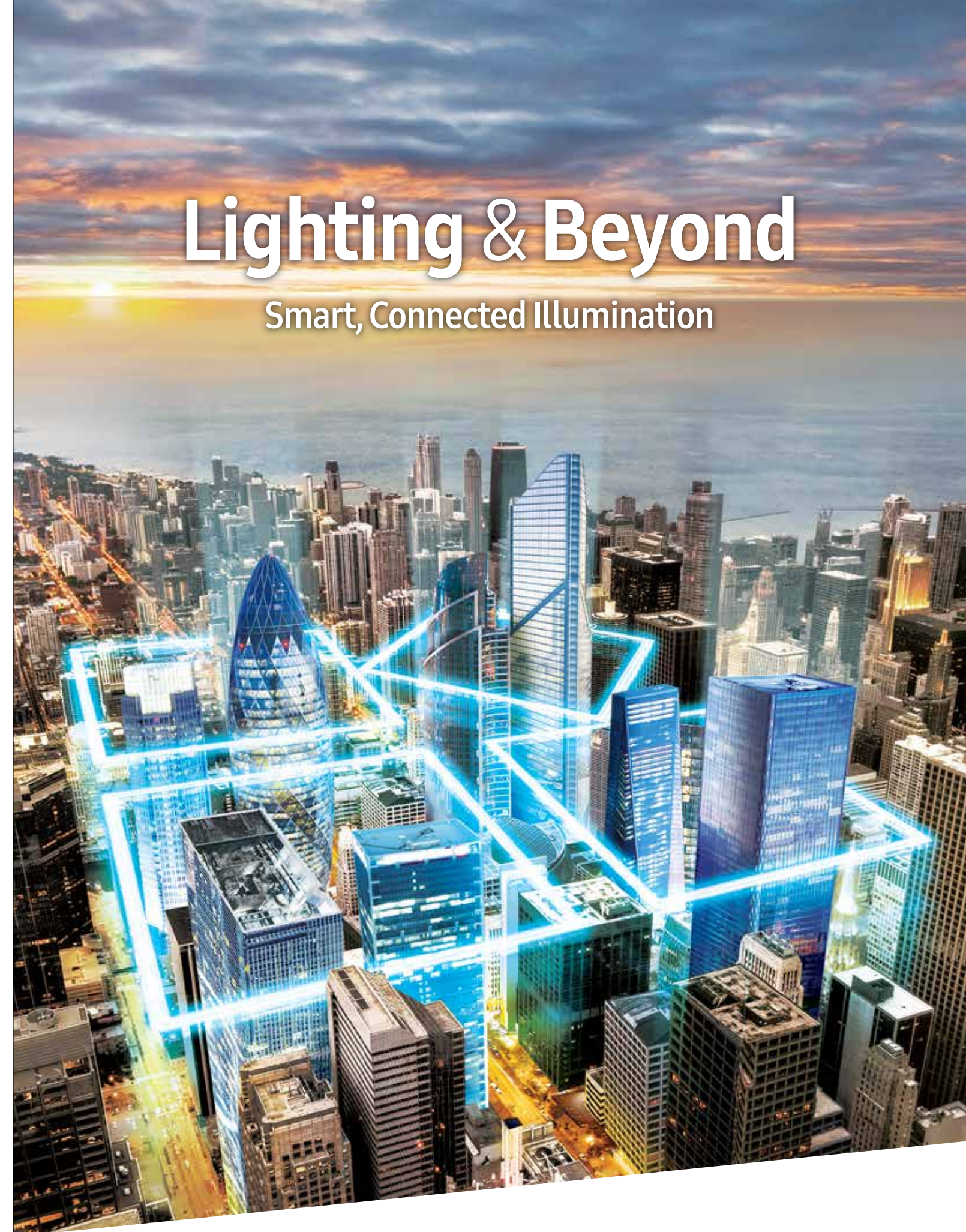
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SAMSUNG



Lighting & Beyond

Smart, Connected Illumination

| Samsung LED Module

SAMSUNG

Overview & Technology

Samsung Electronics Co., Ltd. is a global leader in consumer electronics and the core components that go into them.

Overview

Samsung's global network extends across the world where the creativity, expertise and diverse perspectives of employees are helping to drive growth.

* As of December 2015

Manufacturing Subsidiaries	32
R&D	33
Design Centers	6
Regional Headquarters	14

77

Countries

Brand Value

Ranked 7th in Global Brand Value, Samsung recorded a brand value of \$45.3 Billion in 2015.

* Source : Interbrand / Business Week

Rank	Company	Rank	Company	Rank	Company	Rank	Company
1	Coca-Cola	1	Coca-Cola	1	Apple	5	IBM
2	IBM	2	Apple	2	Google	6	Toyota
3	Apple	3	IBM	3	Coca-Cola	7	Samsung Electronics
4	Google	4	Google	4	IBM	8	Samsung Electronics
				9	Intel	9	GE
				10	Toyota	9	McDonald's
17	Samsung Electronics	19	Nokia				
35	Sony	20	Amazon				
41	Phillips						

Intellectual Property

In 2015, Samsung registered 5,072 new patents at the U.S. Patent & Trade Office. This placed it as the second-highest U.S. patent winner, a position it has held for the 10 consecutive years since 2006.

* As of December 2015



2015 US Patents Registration

* Source: The U.S. Patent and Trademark Office (USPTO)

SAMSUNG

Samsung aspires to create new technologies and innovative products that inspire the world, while delivering new value to enhance the lives of customers, partners and employees.

Vertical Integration

Unique company that has full in-house solutions from raw material to Light Engines and Smart Lighting Platform



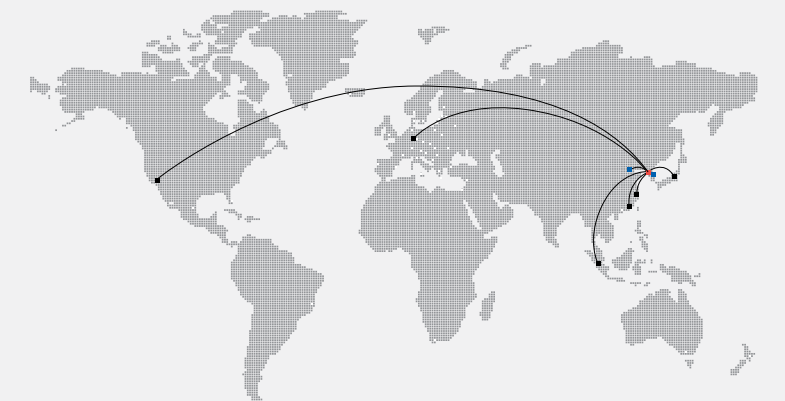
High Reliability

Quality management & design verification system for optimizing time-to-market



World Best SCM

Reliable, on-time delivery without delays




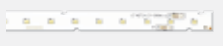

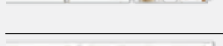
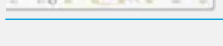
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Ambient Light | Linear Platform Module

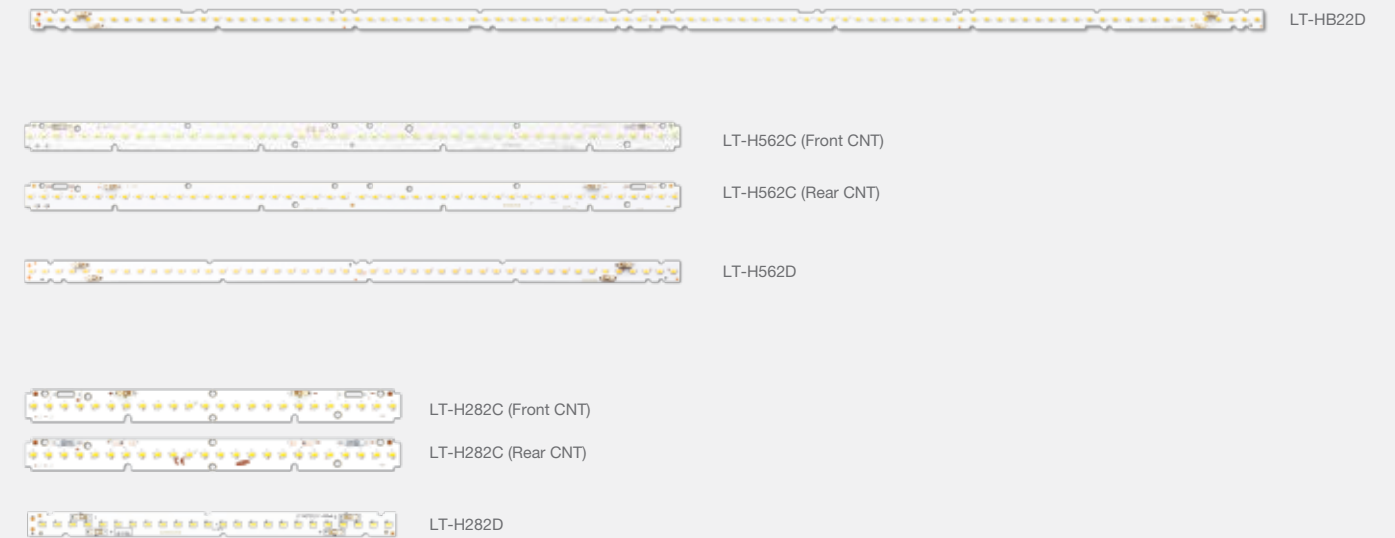


With its modular construction, easy to use connections and best color consistency, Samsung's linear module line-ups are well-suited for various designs of luminaires.

- Tight color binning for best color consistency and high uniformity
- Modular design flexibility makes a wide variety of luminaire designs possible
- Peace of mind with Samsung-backed quality and performance
- Designed following Zhaga specification

Product	Key Features	Efficacy (lm/W)	Lifespan
 H-series Gen3	<ul style="list-style-type: none"> • Highest performance • 184 lm/W [212mA, 4000K, CRI 80+, Tp 50°C] 	●●●●●	●●●●●
 M-series Gen2	<ul style="list-style-type: none"> • Platform & Flexible design choices • High efficacy up to 150lm/W @4000K 	●●●○○	●●●●●
 V-series	<ul style="list-style-type: none"> • Low-end solution • 140 lm/W [620mA, 4000K, CRI 80+, Tp 50°C] 	●●○○○	●●●●○
 S-series	<ul style="list-style-type: none"> • High voltage solution • 160 lm/W [800mA, 4000K, CRI 80+, Tp 50°C] 	●●●●○	●●●●●
 R-series	<ul style="list-style-type: none"> • High lm/W for high ceiling / height applications • High efficacy up to 160lm/w @4000K 	●●●●●	●●●●●

H-series Gen3



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name	
LT-HB22D	3,870	21.6	22.5	960	2,400	179	80	3000	115	1,120x18x5.8	-20~+50	50,000	UL, cUL	SI-B8V221B2HUS	
	3,925					182								3500	SI-B8U221B2HUS
	4,040					187								4000	SI-B8T221B2HUS
	4,040					187								5000	SI-B8R221B2HUS
LT-H562C	1,935	10.8	45.0	240	600	179	80	4000	115	559.7x23.8x 5.8 (Front CNT) 559.7x23.8x 7.4 (Rear CNT)	-20~+50	50,000	CE, ENEC	SI-B8V11156HEU(Front CNT) SI-B8V11256HEU(Rear CNT)	
	2,020					187								6500	SI-B8T11156HEU(Front CNT) SI-B8T11256HEU(Rear CNT)
	2,020					187								6500	SI-B8P11156HEU(Front CNT) SI-B8P11256HEU(Rear CNT)
	1,935					179								3000	SI-B8V11156HUS
LT-H562D	1,965	10.8	22.5	480	1,200	182	80	4000	115	560x18x5.8	-20~+50	50,000	UL, cUL	SI-B8U11156HUS	
	2,020					187								4000	SI-B8T11156HUS
	2,020					187								5000	SI-B8R11156HUS
	970					180								3000	SI-B8V05128HEU(Front CNT) SI-B8V05228HEU(Rear CNT)
LT-H282C	1,010	5.4	22.5	240	600	187	80	4000	115	279.7x23.8x 5.8 (Front CNT) 279.7x23.8x 7.4 (Rear CNT)	-20~+50	50,000	CE, ENEC	SI-B8T05128HEU(Front CNT) SI-B8T05228HEU(Rear CNT)	
	1,010					187								6500	SI-B8P05128HEU(Front CNT) SI-B8P05228HEU(Rear CNT)
LT-H282D	970	5.4	22.5	240	600	180	80	3000	115	275x18x5.8	-20~+50	50,000	UL, cUL	SI-B8V05128HUS	
	980					181								3500	SI-B8U05128HUS
	1,010					187								4000	SI-B8T05128HUS
	1,010					187								5000	SI-B8R05128HUS

※ Front CNT: Front wiring connection / Rear CNT: Rear wiring connection

M-series Gen2



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
LT-MB22A	3,160	22.3	24.8	900	1,080	142	80	3000	115	1,120x18x5.2	-20~+50	50,000	UL, cUL	SI-B8V221B20WW
	3,210					144		3500						SI-B8U221B20WW
	3,300					148		4000						SI-B8T221B20WW
	3,300					148		5000						SI-B8R221B20WW
LT-MB22B	4,210	29.8	24.8	1,200	1,440	141	80	3000	115	1,120x18x5.2	-20~+50	50,000	UL, cUL	SI-B8V301B20WW
	4,280					144		3500						SI-B8U301B20WW
	4,400					148		4000						SI-B8T301B20WW
	4,400					148		5000						SI-B8R301B20WW
LT-MB22C	5,070	33.6	24.0	1,400	1,400	151	80	3000	115	1,120x18x5.2	-20~+50	50,000	UL, cUL	SI-B8V341B20WW
	5,170					153		3500						SI-B8U341B20WW
	5,310					158		4000						SI-B8T341B20WW
	5,310					158		5000						SI-B8R341B20WW
LT-M562A Gen2	1,580	11.2	24.8	450	540	141	80	3000	115	560x18x5.8	-20~+50	50,000	ENEC, CE UL, cUL	SI-B8V113560WW
	1,605					144		3500						SI-B8U113560WW
	1,650					148		4000						SI-B8T113560WW
	1,650					148		5000						SI-B8R113560WW
LT-M562B Gen2	2,105	14.9	24.8	600	720	141	80	3000	115	560x18x5.8	-20~+50	50,000	ENEC, CE UL, cUL	SI-B8V152560WW
	2,140					144		3500						SI-B8U152560WW
	2,200					148		4000						SI-B8T152560WW
	2,200					148		5000						SI-B8R152560WW
LT-M562C Gen2	2,535	16.8	24.0	700	1,080	151	80	3000	115	560x18x5.8	-20~+50	50,000	ENEC, CE UL, cUL	SI-B8V172560WW
	2,575					153		3500						SI-B8U172560WW
	2,655					158		4000						SI-B8T172560WW
	2,655					158		5000						SI-B8R172560WW
LT-M282A Gen2	790	5.6	12.4	450	540	142	80	3000	115	275x18x5.8	-20~+50	50,000	ENEC, CE UL, cUL	SI-B8V052280WW
	800					143		3500						SI-B8U052280WW
	825					148		4000						SI-B8T052280WW
	825					148		5000						SI-B8R052280WW
LT-M282B Gen2	1,050	7.4	24.8	300	360	141	80	3000	115	275x18x5.8	-20~+50	50,000	ENEC, CE UL, cUL	SI-B8V072280WW
	1,070					144		3500						SI-B8U072280WW
	1,100					148		4000						SI-B8T072280WW
	1,100					148		5000						SI-B8R072280WW
LT-M282C Gen2	1,580	11.2	24.8	450	540	142	80	3000	115	275x18x5.8	-20~+50	50,000	ENEC, CE UL, cUL	SI-B8V114280WW
	1,605					144		3500						SI-B8U114280WW
	1,650					148		4000						SI-B8T114280WW
	1,650					148		5000						SI-B8R114280WW

M-series



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
LT-M562F	1,205	11.2	24.8	450	540	108	90	2700	115	560x18x5.8	-20~+50	50,000	UL, cUL	SI-B9W111560WW
	1,225					110		3000						SI-B9V111560WW
	1,250					112		3500						SI-B9U111560WW
	1,300					116		4000						SI-B9T111560WW
LT-M562G	1,605	14.9	24.8	600	720	108	90	2700	115	560x18x5.8	-20~+50	50,000	UL, cUL	SI-B9W151560WW
	1,635					110		3000						SI-B9V151560WW
	1,670					112		3500						SI-B9U151560WW
	1,730					116		4000						SI-B9T151560WW
LT-M562H	1,935	16.8	24.0	700	1,080	115	90	2700	115	560x18x5.8	-20~+50	50,000	UL, cUL	SI-B9W171560WW
	1,970					117		3000						SI-B9V171560WW
	2,010					120		3500						SI-B9U171560WW
	2,085					124		4000						SI-B9T171560WW
LT-M272F	600	5.6	12.4	450	540	108	90	2700	115	275x18x5.8	-20~+50	50,000	UL, cUL	SI-B9W051280WW
	615					110		3000						SI-B9V051280WW
	625					112		3500						SI-B9U051280WW
	650					116		4000						SI-B9T051280WW
LT-M272G	800	7.4	24.8	300	360	108	90	2700	115	275x18x5.8	-20~+50	50,000	UL, cUL	SI-B9W071280WW
	820					110		3000						SI-B9V071280WW
	835					112		3500						SI-B9U071280WW
	865					116		4000						SI-B9T071280WW
LT-M272H	1,205	11.2	24.8	450	540	108	90	2700	115	275x18x5.8	-20~+50	50,000	UL, cUL	SI-B9W113280WW
	1,225					110		3000						SI-B9V113280WW
	1,250					112		3500						SI-B9U113280WW
	1,300					116		4000						SI-B9T113280WW

V-series



LT-VB22A



LT-VB22B



LT-V562A



LT-V562B



LT-V282A



LT-V282B

Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name	
LT-VB22A	2,696	21.2	25.2	840	1,080	127	80	3000	115	1,120x18x5.5	-20~+50	50,000	UL, cUL	SI-B8V221B2CUS	
	2,800					132								3500	SI-B8U221B2CUS
	2,904					137								4000	SI-B8T221B2CUS
	2,904					137								5000	SI-B8R221B2CUS
LT-VB22B	4,090	32.0	25.4	1,260	1,440	128	80	3000	115	1,120x18x5.5	-20~+50	50,000	UL, cUL	SI-B8V301B2CUS	
	4,220					132								3500	SI-B8U301B2CUS
	4,310					135								4000	SI-B8T301B2CUS
	4,310					135								5000	SI-B8R301B2CUS
LT-V562A	1,348	10.6	25.2	420	540	127	80	3000	115	560x18x5.5	-20~+50	50,000	UL, cUL, CE	SI-B8V111560CC	
	1,400					132								3500	SI-B8U111560CC
	1,452					137								4000	SI-B8T111560CC
	1,452					137								5000	SI-B8R111560CC
LT-V562B	2,045	16.0	25.4	630	720	128	80	3000	115	560x18x5.5	-20~+50	50,000	UL, cUL, CE	SI-B8V151560CC	
	2,109					132								3500	SI-B8U151560CC
	2,157					135								4000	SI-B8T151560CC
	2,157					135								5000	SI-B8R151560CC
LT-V282A	724	5.7	12.6	450	540	128	80	3000	115	275x18x5.5	-20~+50	50,000	UL, cUL, CE	SI-B8V061280CC	
	746					132								3500	SI-B8U061280CC
	769					136								4000	SI-B8T061280CC
	769					136								5000	SI-B8R061280CC
LT-V282B	965	7.6	25.2	300	360	128	80	3000	115	275x18x5.5	-20~+50	50,000	UL, cUL, CE	SI-B8V081280CC	
	995					132								3500	SI-B8U081280CC
	1,026					136								4000	SI-B8T081280CC
	1,026					136								5000	SI-B8R081280CC

S-series



LT-S562H (High Voltage)



LT-S282H

Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name	
LT-S562H	2,155	13.2	46.9	280	540	163	80	4000	115	559.7x23.8x 5.8 (Front CNT) 559.7x23.8x 7.4 (Rear CNT)	-20~+50	50,000	CE, ENEC	SI-B8V13156SEU(Front CNT) SI-B8V13256SEU(Rear CNT)	
	2,250					170								6500	SI-B8T13156SEU(Front CNT) SI-B8T13256SEU(Rear CNT)
	2,250					170								6500	SI-B8P13156SEU(Front CNT) SI-B8P13256SEU(Rear CNT)
LT-S282H	1,070	6.6	23.4	280	540	163	80	4000	115	279.7x23.8x 5.8 (Front CNT) 279.7x23.8x 7.4 (Rear CNT)	-20~+50	50,000	CE, ENEC	SI-B8V07128VEU(Front CNT) SI-B8V07128VEU(Rear CNT)	
	1,120					170								6500	SI-B8T07128VEU(Front CNT) SI-B8T07128VEU(Rear CNT)
	1,120					170								6500	SI-B8P07128VEU(Front CNT) SI-B8P07128VEU(Rear CNT)

※ Front CNT: Front wiring connection / Rear CNT: Rear wiring connection

R-series



LT-R286A

Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name	
LT-R286A	1,433	9.4	32.3	290	540	153	80	4000	115	280x55x5.8 (Front CNT) 279.7x23.8x7.4 (Rear CNT)	-20~+50	50,000	ENEC, CE, VDE	SI-B8V09A280WW(Front CNT) SI-B8V09B280WW(Rear CNT)	
	1,501					160								5000	SI-B8T09A280WW(Front CNT) SI-B8T09B280WW(Rear CNT)
	1,547					165								5000	SI-B8R09A280WW(Front CNT) SI-B8R09B280WW(Rear CNT)
	1,501					160								6500	SI-B8P09A280WW(Front CNT) SI-B8P09B280WW(Rear CNT)



※ Front CNT: Front wiring connection / Rear CNT: Rear wiring connection

Ambient Light | Area Platform Module



High efficacy ambient modules that are cost-effective and deliver high uniformity of light

- Enabling slimmer luminaire design with integrated optical technology (LAM Type)
- Value added optical technology designed by Samsung (LAM Type)
- Uses Samsung's LM561B Plus package which has completed LM-80 test, for proven reliability and performance
- Optimized number of packages for superior light uniformity
- Good thermal performance resulting in enhanced luminaire lifetime
- Easy to design-in

Product	Key Features	Efficacy (lm/W)	Lifespan
 LAM type	<ul style="list-style-type: none"> • Best solution for slim luminaire design • Good uniformity even curved optic design 	●●○○○	●●●●●
 Finger type	<ul style="list-style-type: none"> • Better uniformity solution for flat panel type • High efficacy up to 186lm/W @4000K 	●●●●●	●●●●●

LAM type



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name	
LAM-SQ30C LAM-RT30C	1,445	10.6	30.2	350	540	137	80	4000	145	259x250x6.6 216x273x6.6	-20~+50	50,000	CE, ENEC	SI-B8V114250WW	
	1,515					143								5000	SI-B8V116280WW
	1,515					143								5000	SI-B8T114250WW
LAM-SQ32B	1,300	9.0	23.5	385	600	144	80	4000	145	259x250x6.6	-20~+50	50,000	UL, cUL	SI-B8P114250WW	
	1,340					148								5000	SI-B8P116280WW
	1,380					153								5000	SI-B8U09526001

Finger type





Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name	
Finger-SQ64C Finger-RT64C	1,385	7.8	11.2	700	2,400	178	80	4000	115	259x250x5.8 230x273x5.8	-20~+50	50,000	CE, ENEC	SI-B8V102250WW	
	1,405					180								3500	SI-B8V104280WW
	1,450					186								5000	SI-B8U102250WW
	1,495					192								5000	SI-B8U104280WW
	1,450					186								6500	SI-B8T102250WW
Finger-SQ30C Finger-RT30C	1,535	10.6	30.2	350	540	145	80	4000	115	259x250x5.8 216x273x5.8	-20~+50	50,000	CE, ENEC	SI-B8R102250WW	
	1,610					152								6500	SI-B8R104280WW
	1,610					152								6500	SI-B8P102250WW
Finger-SQ32B	1,370	9.0	23.5	385	600	151	80	4000	115	259x250x5.8	-20~+50	50,000	UL, cUL	SI-B8P113250WW	
	1,410					156								5000	SI-B8P115280WW
	1,450					160								5000	SI-B8U09626001

Industrial Light | Linear Platform Module



Superior performance for high flux luminaires in industrial lighting

- Optimized for industrial lighting applications to replace T8/T5HO
- Reduced thermal resistance using Samsung's mid-power LED, LM561B+/LM301A
- Better uniformity & cost effective

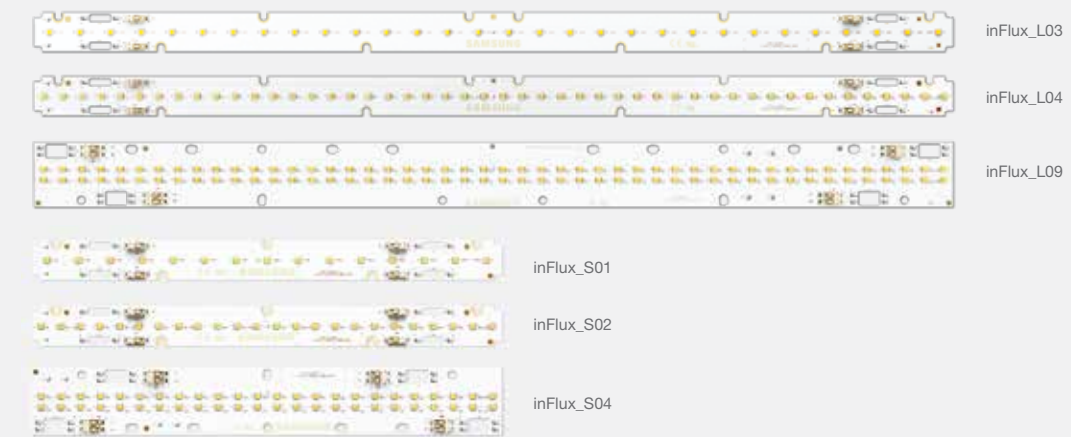
Product	Key Features	Efficacy (lm/W)	Lifespan
 F-series Gen2	<ul style="list-style-type: none"> • High lumen density of 4,650lm to replace 3~5 tubes in High/lowbay applications • Platform & Flexible design choices • High efficacy up to 144lm/W @4000K 	●●●○○	●●●●●
 inFlux	<ul style="list-style-type: none"> • Wide lumen flux coverage up to 40,000 lm by module combination • Adopted high reliable MPL solution, LM301A • High efficacy up to 137lm/W @4000K 	●●●○○	●●●●●

F-series



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
LT-F562A Gen2	4,605	33.5	24.8	1,350	1,620	138	80	3000	115	560x18x5.2	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V342560WW
	4,680					140		3500						SL-B8U342560WW
	4,820					144		4000						SL-B8T342560WW
	4,820					144		5000						SL-B8R342560WW
LT-F564A	8,810	74.4	49.6	1,500	1,500	118	80	3500	115	558.8x40x5.9	-20~+50	50,000	UL, cUL	SLB8U7NK0L2WW
	8,850					119		4000						SLB8T7NK0L2WW
	9,050					122		5000						SLB8R7NK0L2WW

inFlux series







Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
inFlux_L03	2,620	20.8	18.1	1,150	1,150	126	80	3000	120	560x24x5.9	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V2N60L1WW
	2,670					128		3500						SL-B8U2N60L1WW
	2,840					137		4000						SL-B8T2N60L1WW
	2,930					141		5000						SL-B8R2N60L1WW
inFlux_L04	4,190	33.3	24.1	1,380	1,380	126	80	3000	120	560x24x5.9	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V3N80L1WW
	4,260					128		3500						SL-B8U3N80L1WW
	4,540					137		4000						SL-B8T3N80L1WW
	4,690					141		5000						SL-B8R3N80L1WW
inFlux_L09	8,390	66.6	48.2	1,380	1,380	126	80	3000	120	560x40x5.9	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V7N90L1WW
	8,530					128		3500						SL-B8U7N90L1WW
	9,100					137		4000						SL-B8T7N90L1WW
	9,380					141		5000						SL-B8R7N90L1WW
inFlux_S01	1,310	10.4	9.1	1,150	1,150	126	80	3000	120	280x24x5.9	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V1N00L1WW
	1,335					128		3500						SL-B8U1N00L1WW
	1,420					137		4000						SL-B8T1N00L1WW
	1,465					141		5000						SL-B8R1N00L1WW
inFlux_S02	2,095	16.6	12.1	1,380	1,380	126	80	3000	120	280x24x5.9	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V1N40L1WW
	2,130					128		3500						SL-B8U1N40L1WW
	2,270					137		4000						SL-B8T1N40L1WW
	2,345					141		5000						SL-B8R1N40L1WW
inFlux_S04	4,195	33.3	24.1	1,380	1,380	126	80	3000	120	280x40x5.9	-20~+50	50,000	ENEC, CE, UL, cUL	SL-B8V4N80L1WW
	4,265					128		3500						SL-B8U4N80L1WW
	4,550					137		4000						SL-B8T4N80L1WW
	4,690					141		5000						SL-B8R4N80L1WW

Downlight & Spotlight

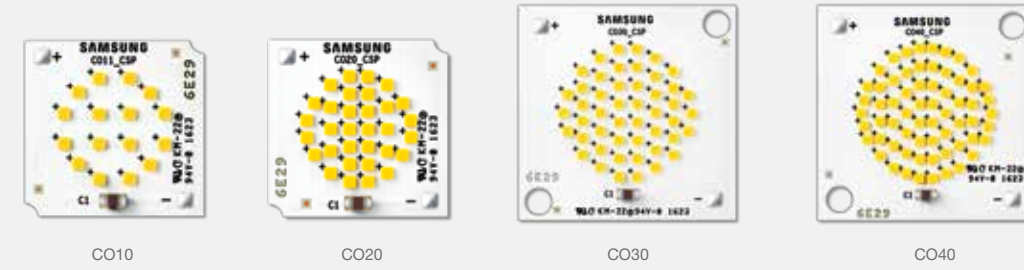


High efficacy modules that are ideal for use in downlights and spotlights

- High efficacy downlight modules with latest LED technology from Samsung
- Suitable for various applications including general flood light, spotlight and ceiling light
- Best color consistency derived from Samsung's extensive binning expertise

Product	Key Features	Efficacy (lm/W)	Lifespan
 CSP Spot	<ul style="list-style-type: none"> • Designed following Zhaga specification, excellent compatibility of eco-partner's component • Possible to design various sizes of downlights 	●●●○○	●●●●○
 CSP Spot Tunable	<ul style="list-style-type: none"> • 1,000/2,000lm color tunable solution (2700K-5000K) with a small LES 	●●●○○	●●●●○
 Spot Module	<ul style="list-style-type: none"> • High efficacy up to 162lm/W • Easy installation by poke-in type holder • Designed following Zhaga specification 	●●●●●	●●●●●
 Round Module Gen4	<ul style="list-style-type: none"> • Better to small optic design • Possible to design 3~7inch downlight • Suitable for various applications including general flood lighting, spotlight and ceiling applications 	●●●●○	●●●●○
 ACOM DLE	<ul style="list-style-type: none"> • Quickly and easily integrated • Simplified downlight design possibilities 	●●●○○	●●●○○

CSP Spot



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	T _p (°C)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
CO10	1,010	9.4	23.5	400	700	107	65	80	2700	150	19x19x2.2	-20~+50	50,000	TBD	SI-N8W0916E0WW
	1,050					3000			SI-N8V0916E0WW						
	1,070					3500			SI-N8U0916E0WW						
	1,140					4000			SI-N8T0916E0WW						
CO20	1,980	18.3	23.4	780	1,400	108	65	80	2700	140	19x19x2.2	-20~+50	50,000	TBD	SI-N8W1816E0WW
	2,060					3000			SI-N8V1816E0WW						
	2,110					3500			SI-N8U1816E0WW						
	2,240					4000			SI-N8T1816E0WW						
CO30	2,980	27.4	23.4	1,170	2,100	109	65	80	2700	145	28x28x2.2	-20~+50	50,000	TBD	SI-N8W2716E0WW
	3,090					3000			SI-N8V2716E0WW						
	3,160					3500			SI-N8U2716E0WW						
	3,360					4000			SI-N8T2716E0WW						
CO40	1,010	36.5	23.4	1,560	2,800	109	65	80	2700	140	28x28x2.2	-20~+50	50,000	TBD	SI-N8W3616E0WW
	1,050					3000			SI-N8V3616E0WW						
	1,070					3500			SI-N8U3616E0WW						
	1,140					4000			SI-N8T3616E0WW						

CSP Spot Tunable



Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	T _p (°C)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
TO10	1,060	9.2	34.1	270	-	115	65	80	2700	150	28x28x2.2	-20~+50	50,000	TBD	SI-N8B1016E0WW
	1,150	9.8	36.2	-	-	118	-	-	5000	145	-	-	-	-	-
TO20	1,970	17.7	34.7	510	-	111	65	80	2700	140	28x28x2.2	-20~+50	50,000	TBD	SI-N8B1816E0WW
	2,190	18.4	36.0	-	-	119	-	-	5000	-	-	-	-	-	-

Spot Module



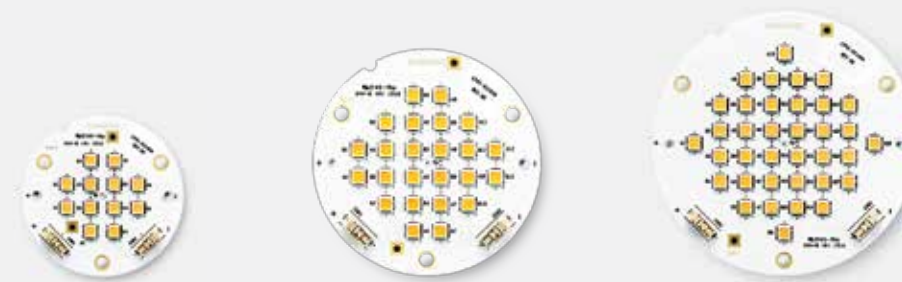
SLE-013 SLE-026 SLE-033 SLE-040

Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	T _p (°C)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
SLE-013	1,200	8.4	33.5	250	350	143	75	80	2700	115	φ50x6.7	-20~+50	60,000	ENEC, CE, UL, cUL	SI-N8W1312B0WW
	1,240					148			3000						SI-N8V1312B0WW
	1,310					156			3500						SI-N8U1312B0WW
	1,240					148			4000						SI-N8T1312B0WW
	1,300					155			5000						SI-N8R1312B0WW
	950					113			2700						SI-N9W1312B0WW
	980					117			3000						SI-N9V1312B0WW
	1,000					119			3500						SI-N9U1312B0WW
	1,050					125			4000						SI-N9T1312B0WW
	2,530					151			2700						SI-N8W2612B0WW
SLE-026	2,540	16.8	33.5	500	700	152	75	80	3000	115	φ50x6.7	-20~+50	60,000	ENEC, CE, UL, cUL	SI-N8V2612B0WW
	2,600					155			3500						SI-N8U2612B0WW
	2,700					161			4000						SI-N8T2612B0WW
	2,720					162			5000						SI-N8R2612B0WW
	2,050					122			2700						SI-N9W2612B0WW
	2,080					124			3000						SI-N9V2612B0WW
	2,140					128			3500						SI-N9U2612B0WW
	2,250					134			4000						SI-N9T2612B0WW
	3,350					142			2700						SI-N8W3312B0WW
	3,540					150			3000						SI-N8V3312B0WW
SLE-033	3,610	23.7	33.8	700	900	153	75	80	3500	115	φ50x6.7	-20~+50	60,000	ENEC, CE, UL, cUL	SI-N8U3312B0WW
	3,510					148			4000						SI-N8T3312B0WW
	3,550					150			5000						SI-N8R3312B0WW
	2,610					110			2700						SI-N9W3312B0WW
	2,660					112			3000						SI-N9V3312B0WW
	2,740					116			3500						SI-N9U3312B0WW
	2,820					119			4000						SI-N9T3312B0WW
	4,280					139			2700						SI-N8W4012B0WW
	4,540					148			3000						SI-N8V4012B0WW
	4,330					141			3500						SI-N8U4012B0WW
SLE-040	4,510	30.7	34.1	900	1,000	147	75	80	4000	115	φ50x6.7	-20~+50	60,000	ENEC, CE, UL, cUL	SI-N8T4012B0WW
	4,560					149			5000						SI-N8R4012B0WW
	3,280					107			2700						SI-N9W4012B0WW
	3,330					109			3000						SI-N9V4012B0WW
	3,410					111			3500						SI-N9U4012B0WW
	3,530					115			4000						SI-N9T4012B0WW

※ UL, cUL: COB and holder received separately

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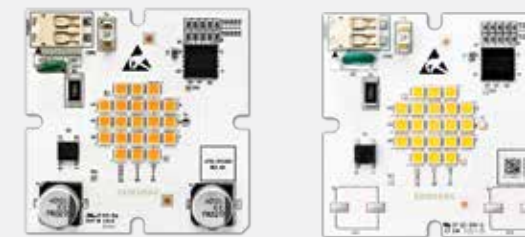
Round Module Gen4



Round-040D Round-050D Round-060D

Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	T _p (°C)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
Round-040D	950	8.2	23.3	350	350	117	65	80	3000	115	φ41x3.7	-20~+50	50,000	ENEC, CE, UL, cUL	SI-N8V0812B0WW
	980					121			3500						SI-N8U0812B0WW
	1,000					123			4000						SI-N8T0812B0WW
Round-050D	1,940	16.5	23.5	700	700	118	65	80	3000	115	φ50x3.7	-20~+50	50,000	ENEC, CE, UL, cUL	SI-N8V1712B0WW
	1,990					121			3500						SI-N8U1712B0WW
	2,030					124			4000						SI-N8T1712B0WW
	2,850					117			3000						SI-N8V2513B0WW
Round-060D	2,930	24.5	34.9	700	700	120	65	80	3500	115	φ62x3.7	-20~+50	50,000	ENEC, CE, UL, cUL	SI-N8U2513B0WW
	2,980					122			4000						SI-N8T2513B0WW

ACOM DLE



Reduced Flicker

Low THD

Type	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	Percent Flicker (%)	THD (%)	Efficacy (lm/W)	T _p (°C)	CRI Min.	CCT (K)	Beam Angle (°)	Size (mm)	Temperature Range (°C)	Lifetime (hrs)	Certification	Model Name
Reduced Flicker	1,070	11.4	120 (AC)	50	19	94	65	80	2700	115	55x55x12.5	-20~+50	50,000	UL, cUL	SI-N8W1113B1US
	1,080					95			3000						SI-N8V1113B1US
	1,110					98			3500						SI-N8U1113B1US
	1,130					100			4000						SI-N8T1113B1US
	1,150					101			5000						SI-N8R1113B1US
	870					77			2700						SI-N9W1113B1US
	920					81			3000						SI-N9V1113B1US
Low THD	1,070	11.5	120 (AC)	100	14	94	65	80	2700	115	55x55x12.5	-20~+50	50,000	UL, cUL	SI-N8W1123B1US
	1,080					95			3000						SI-N8V1123B1US
	1,110					98			3500						SI-N8U1123B1US
	1,130					100			4000						SI-N8T1123B1US
	1,150					100			5000						SI-N8R1123B1US

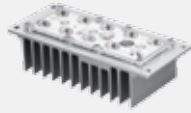


SAMSUNG

Outdoor Light



Easy-to-use modular design with various lumen packages combined with IP66-certified durability, makes it the smart choice for use in the harshest of environments

- Wide range of engine combinations available from 25W to 200W and well-suited for a variety of harsh environment applications
- High luminous efficacy
- Available with a full range of compatible drivers

Product	Key Features	Efficacy (lm/W)	Lifespan
 Modular Platform T-type Gen2	<ul style="list-style-type: none"> • Total solution integrating LED+Optics+Thermal • With LH351B, higher lumen density of 2,650lm • IP66 	●●●●○	●●●●○
 Array Gen2	<ul style="list-style-type: none"> • Total solution integrating LED+Optics+Thermal • High efficacy at module • Suitable for flood and highbay lighting • Robust design with waterproof durability 	●●●●○	●●●●●
 HiLOM_2x8	<ul style="list-style-type: none"> • Greater design flexibility for various fixture designs • High performance, 4,400lm (700mA) with efficacy of 132lm/W 	●●●●●	●●●●○

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Modular Platform Engine



Model	Light Distribution	Heat Sink	Connector	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Weight (g)	Waterproof/Dustproof Grade	Temperature Range (Operation, Tc)	Certification	Model Name
E-type Gen2	Type2 Short	With Fin	With connector	2,300	21	30	700	1,000	100	80	3000	230	IP66	-30~+80	CE, UL	SL-P8V2V27MBWW
				2,650					114							75
F-type	Type2 Medium Beam angle 85	Without Fin	Wire (without connector)	2,400	21	30	700	1,000	100	70	5000	170	IP66	+10~+90	CE	SL-P7V2F32MBKI
																SL-P7T2F32MBKI
																SL-P7V2F385BKI
																SL-P7T2F385BKI
																SL-PGR2W53LBWW
T-type Gen2	Type1 Short Type2 Very Short Type2 Short Type1 Short Type2 Very Short Type1 Short Type2 Very Short Type2 Short Type2 Short Type2 Long Beam angle 85	With Fin	With connector	2,650	21	30	700	1,000	126	75	5000	295	IP66	-30~+80	CE, UL	SL-PGR2W53LBWW
																SL-PGR2W53MBWW
																SL-PGR2W57MBWW
																SL-PGQ2W53LBWW
																SL-PGQ2W53MBWW
			Wire (without connector)													SL-PGR2W51SBGL
																SL-PGR2W57SBGL
																SL-PGR2W52SBGL
																SL-P7R2W5R1BGL
																SL-P7R2W5R2BGL
SL-P7R2W585BGL																

※ E-Type : with Fin (Thermal management by Engine) , F-type : without Fin (Thermal management by Fixture) , T-Type : Flange with Fin (H/S with Tetra screw-holes)

Integrated array module



Model	Light Distribution	Heat Sink	Connector	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Weight (g)	Waterproof/Dustproof Grade	Temperature Range (Operation, Tc)	Certification	Model Name								
Array Gen2	Type2 Short Type2 Short Beam angle 70 Beam angle 120	With Fin	With connector	6,450	47	52.2	900	2000	137	70	5000	1,100	IP66	-30~+80	-	SL-IGR5E82SBWW								
				9,700					70							52.2	1,350	3000	139	70	5000	1,660	SL-IGR7E97SBWW	
																								SL-IGR7E970BWW
																								SL-IGR7E9C0BWW

Separated linear platform module (Under development)



Model	Heat Sink	Luminous Flux (lm)	Power Consumption (W)	Input Voltage (V)	IF (mA)	I _{max} (mA)	Efficacy (lm/W)	CRI Min.	CCT (K)	Beam Angle (°)	Weight (g)	Secondary Optic	Temperature Range (Operation, Tc)	Certification	Model Name
HiLOM 2x8	With Fin	4,110	33.2	23.7	1,400	2000	124	70	4000	120	35	LEDII STRADA series	-30~+60	-	SL-B7V3B70L1WW
		4,370					132								4000
		4,550					137								SL-B7R3B70L1WW

※ HiLOM: High Luminance Outdoor Module

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