Mid Power LEDs

Features

- White bins from cold to warm white available
- Long lifetime
- Tight Binning for Mid Power LED
- Low thermal resistance (Rth)
- Mid Power LED binned in Vf (0.1 V increments)
- High lumen output with low drive current
- Samsung chips are used

Applications

- General Lighting
- Advertising Boards
- Emergency Exit Lighting
- Accent Lighting
- Refrigerator Illumination
- Ambient Lighting

Product	CRI	CCT	Luminous Flux		IF (mA)	Part Number
			Min.	Max.		
LM561B+	90	2700K	24.0	28.0	65	SPMWHT541MP7WAW0S0
		3000K	24.5	28.5		SPMWHT541MP7WAV0S0
		3500K	25.0	29.0		SPMWHT541MP7WAU0S0
		4000K	26.0	30.0		SPMWHT541MP7WAT0S0
		5000K	25.0	31.0		SPMWHT541MP7WAR0S0
		5700K	24.5	30.5		SPMWHT541MP7WAQ0S0
		6500K	24.0	30.0		SPMWHT541MP7WAP0S0
	80	2700K	30.0	32.0		SPMWHT541MP5WAW0S4
			32.0	34.0		SPMWHT541MP5WAW0S5
		3000K	30.5	32.5		SPMWHT541MP5WAV0S4
			32.5	34.5		SPMWHT541MP5WAV0S5
		3500K	31.0	33.0		SPMWHT541MP5WAU0S4
			33.0	35.0		SPMWHT541MP5WAU0S5
		4000K	32.0	34.0		SPMWHT541MP5WAT0S4
			34.0	36.0		SPMWHT541MP5WAT0S5
		5000K	33.0	35.0		SPMWHT541MP5WAR0S4
			35.0	37.0		SPMWHT541MP5WAR0S5
		5700K	32.5	34.5		SPMWHT541MP5WAQ0S4
			34.5	36.5		SPMWHT541MP5WAQ0S5
		6500K	32.0	34.0		SPMWHT541MP5WAP0S4
			34.0	36.0		SPMWHT541MP5WAP0S5
	70	2700K	32.0	38.0		SPMWHT541MP3WAW0S4
		3000K	32.5	38.5		SPMWHT541MP3WAV0S0
		3500K	33.0	39.0		SPMWHT541MP3WAU0S0
		4000K	34.0	40.0		SPMWHT541MP3WAT0S0
		5000K	33.0	39.0		SPMWHT541MP3WAR0S0

Product	CRI	CCT	Luminous Flux		IF (mA)	Part Number
			Min.	Max.		
LM561C	90	2700K	24.0	30.0	65	SPMWHT541ML7XAW0S0
		3500K	25.0	31.0		SPMWHT541ML7XAU0S0
		4000K	24.0	30.0		SPMWHT541ML7XAT0S0
		5000K	25.0	31.0		SPMWHT541ML7XAR0S0
		5700K	24.5	30.5		SPMWHT541ML7XAQ0S0
		6500K	24.0	30.0		SPMWHT541ML7XAP0S0
	80	2700K	30.0	32.0		SPMWHT541ML5XAW0S5
			32.0	34.0		SPMWHT541ML5XAW0S5
		3000K	32.5	34.5		SPMWHT541ML5XAV0S5
			34.5	36.5		SPMWHT541ML5XAV0S6
		3500K	33.0	35.0		SPMWHT541ML5XAU0S5
			35.0	37.0		SPMWHT541ML5XAU0S6
		4000K	34.0	36.0		SPMWHT541ML5XAT0S5
			36.0	38.0		SPMWHT541ML5XAT0S6
		5000K	35.0	37.0		SPMWHT541ML5XAR0S5
			37.0	39.0		SPMWHT541ML5XAR0S6
		5700K	34.5	36.5		SPMWHT541ML5XAQ0S5
			36.5	38.5		SPMWHT541ML5XAQ0S6
		6500K	34.0	36.0		SPMWHT541ML5XAP0S5
			36.0	38.0		SPMWHT541ML5XAP0S6
	70	3000K	32.5	38.5		SPMWHT541ML3XAV0S0
		3500K	38.0	39.0		SPMWHT541ML3XAU0S0
		4000K	34.0	40.0		SPMWHT541ML3XAT0S0
		5000K	35.0	41.0		SPMWHT541ML3XAR0S0

Bin option is available, please refer to data sheet for mor details.

High Power LEDs

Features

- High performance and high brightness
- Superior heat dissipation
- Original technology based design (holding original patents)
- Long lifetime
- Stable light output over temperature
- Low thermal resistance (Rth)
- Samsung chips are used
- 3 SDCM

Applications

- Outdoor Lighting (Street, Tunnel, Flood Lighting)
- General Lighting (Down Lights, Retrofit Lamps)
- Emergency Exit Lighting
- Accent Lighting
- Refrigerator Lighting (Home & Commercial)
- Ambient Lighting

Product	CRI	CCT	Luminous Flux		IF (mA)	Part Number
			Min.	Max.		
LH181A	70	3000	130	160	350	SCP7VTF1MPL1V0K34E
		3500	130	160		SCP7UTF1MPL1U0K34E
		4000	140	170		SCP7TTF1MPL1T0M34E
		5000	140	170		SCP7RTF1MPL1RTM34E
		5700	140	170		SCP7QTF1MPL1QTM34E
	80	2700	120	150		SCP8WTF1MPL1W0J34E
		3000	130	160		SCP8VTF1MPL1V0K34E
		3500	130	160		SCP8UTF1MPL1U0K34E
		4000	130	160		SCP8TTF1MPL1T0K34E
		5000	130	160		SCP8RTF1MPL1RTK34E
LH204A	70	3000	230	245	150	SCA7VT78HAL4V0BG1F
		3500	230	245		SCA7UT78HAL4U0BG1F
		4000	230	245		SCA7TT78HAL9T0AJEP
		5000	245	260		SCA7RT78HAL9RTAJEP
		5700	245	260		SCA7QT78HAL4QTDH1F
		6500	230	245		SCA7PT78HAL4PTBG1F
	80	2700	215	230		SCA8WT78HAL4W0AE1F
		3000	215	230		SCA8VT78HAL4V0AE1F
		3500	215	230		SCA8UT78HAL4U0AE1F
		4000	230	245		SCA8TT78HAL4T0BG1F
		5000	230	245		SCA8RT78HAL4RTBG1F
	90	2700	175	185		SCA9WT78HAL4W06A1F
		3000	175	185		SCA9VT78HAL4V06A1F
		3500	185	200		SCA9UT78HAL4U07B1F
		4000	185	200		SCA9TT78HAL4T07B1F
LH309A	70	3000	510	545	150	SCA7VT78HAL9V08FEP
		3500	545	585		SCA7UT78HAL9U0AJEP
		4000	545	585		SCA7TT78HAL9T0AJEP
		5000	545	585		SCA7RT78HAL9RTAJEP
		5700	545	585		SCA7QT78HAL9QTAJEP
	80	2700	475	510		SCA8WT78HAL9W06DEP
		3000	475	510		SCA8VT78HAL9V06DEP
		3500	510	545		SCA8UT78HAL9U08FEP
		4000	510	545		SCA8TT78HAL9T08FEP
		5000	545	585		SCA8RT78HAL9RTAJEP
	90	2700	390	415		SCA9WT78HAL9W006EP
		3000	415	445		SCA9VT78HAL9V028EP
		3500	415	445		SCA9UT78HAL9U028EP
		4000	415	445		SCA9TT78HAL9T028EP

Product	CRI	CCT	Luminous Flux		IF (mA)	Part Number
			Min.	Max.		
LH351B	70	3000	130	160	350	SPHWH2L3D30CD4V0K3
			140	170		SPHWH2L3D30CD4V0M3
		3500	130	160		SPHWH2L3D30CD4U0K3
			140	170		SPHWH2L3D30CD4U0M3
		4000	140	170		SPHWH2L3D30CD4T0M3
			150	180		SPHWH2L3D30CD4T0N3
		5000	140	170		SPHWH2L3D30CD4RTM3
			150	180		SPHWH2L3D30CD4RTN3
			160	190		SPHWH2L3D30CD4RTP3
		5700	140	170		SPHWH2L3D30CD4QTM3
			150	180		SPHWH2L3D30CD4QTN3
			160	190		SPHWH2L3D30CD4QTP3
		6500	140	170		SPHWH2L3D30CD4PTM3
			150	180		SPHWH2L3D30CD4PTN3
	80	2700	110	140		SPHWH2L3D30ED4W0H3
			120	150		SPHWH2L3D30ED4W0J3
		3000	110	140		SPHWH2L3D30ED4V0H3
			120	150		SPHWH2L3D30ED4V0J3
			130	160		SPHWH2L3D30ED4V0K3
		3500	120	150		SPHWH2L3D30ED4U0J3
			130	160		SPHWH2L3D30ED4U0K3
		4000	120	150		SPHWH2L3D30ED4T0J3
			130	160		SPHWH2L3D30ED4T0K3
			140	170		SPHWH2L3D30ED4T0M3
		5000	130	160		SPHWH2L3D30ED4RTK3
			140	170		SPHWH2L3D30ED4RTM3
		5700	130	160		SPHWH2L3D30ED4QTK3
			140	170		SPHWH2L3D30ED4QTM3
		6000	130	160		SPHWH2L3D30ED4PQK3
			140	170		SPHWH2L3D30ED4PQM3
		6500	130	160		SPHWH2L3D30ED4PTK3
			140	170		SPHWH2L3D30ED4PTM3
	90	3500	100	130		SPHWH2L3D30GD4U0G3
			110	140		SPHWH2L3D30GD4U0H3

Standard COB – D-Series

- Industry leading efficacy COB with Full CRI Options
- Chip on Board (COB) solution makes it easy to design-in
- Simple assembly reduces manufacturing cost
- Low thermal resistance
- Completed 10,000 hours of LM-80 testing

Chip on Board

Product	CRI Min.	CCT	Tc = 85°C Lumin. Flux Typ. (lm)	Tc = 85°C Lumin. Eff. Typ. (lm/W)	IF (mA)	Part Number
LC003D	80	2700K	434	139	90	SPHWHAHDNA25YZW3D1
		3000K	457	147		SPHWHAHDNA25YZV3D1
		3500K	474	152		SPHWHAHDNA25YZU3D1
		4000K	480	154		SPHWHAHDNA25YZT3D1
		5000K	485	156		SPHWHAHDNA25YZR3D1
		5700K	485	156		SPHWHAHDNA25YZQ3D1
		6500K	480	154		SPHWHAHDNA25YZP3D1
	90	2700K	367	118		SPHWHAHDNA27YZW3D1
		3000K	384	123		SPHWHAHDNA27YZV3D1
		3500K	396	127		SPHWHAHDNA27YZU3D1
		4000K	404	130		SPHWHAHDNA27YZT3D1
LC006D	80	2700K	874	140	180	SPHWHAHDNB25YZW3D1
		3000K	919	148		SPHWHAHDNB25YZV3D1
		3500K	947	152		SPHWHAHDNB25YZU3D1
		4000K	969	156		SPHWHAHDNB25YZT3D1
		5000K	975	157		SPHWHAHDNB25YZR3D1
		5700K	975	157		SPHWHAHDNB25YZQ3D1
		6500K	964	155		SPHWHAHDNB25YZP3D1
	90	2700K	744	119		SPHWHAHDNB27YZW3D1
		3000K	780	125		SPHWHAHDNB27YZV3D1
		3500K	768	123		SPHWHAHDNB27YZU3D1
		4000K	784	126		SPHWHAHDNB27YZT3D1
LC009D	80	2700K	1270	136	270	SPHWHAHDNC25YZW3D1
		3000K	1342	144		SPHWHAHDNC25YZV3D1
		3500K	1381	148		SPHWHAHDNC25YZU3D1
		4000K	1414	151		SPHWHAHDNC25YZT3D1
		5000K	1425	153		SPHWHAHDNC25YZR3D1
		5700K	1425	153		SPHWHAHDNC25YZQ3D1
		6500K	1408	151		SPHWHAHDNC25YZP3D1
	90	2700K	1090	117		SPHWHAHDNC27YZW3D1
		3000K	1141	122		SPHWHAHDNC27YZV3D1
		3500K	1178	126		SPHWHAHDNC27YZU3D1
		4000K	1204	129		SPHWHAHDNC27YZT3D1
LC013D	80	2700K	1669	134	360	SPHWHAHDND25YZW3D1
		3000K	1757	141		SPHWHAHDND25YZV3D1
		3500K	1812	145		SPHWHAHDND25YZU3D1
		4000K	1844	148		SPHWHAHDND25YZT3D1
		5000K	1861	149		SPHWHAHDND25YZR3D1
		5700K	1861	149		SPHWHAHDND25YZQ3D1
		6500K	1834	147		SPHWHAHDND25YZP3D1
	90	2700K	1427	115		SPHWHAHDND27YZW3D1
		3000K	1494	120		SPHWHAHDND27YZV3D1
		3500K	1547	124		SPHWHAHDND27YZU3D1
		4000K	1580	127		SPHWHAHDND27YZT3D1
LC016D	80	2700K	2169	139	450	SPHWHAHDNE25YZW3D1
		3000K	2291	147		SPHWHAHDNE25YZV3D1
		3500K	2376	153		SPHWHAHDNE25YZU3D1
		4000K	2419	155		SPHWHAHDNE25YZT3D1
		5000K	2440	157		SPHWHAHDNE25YZR3D1
		5700K	2440	157		SPHWHAHDNE25YZQ3D1
		6500K	2419	155		SPHWHAHDNE25YZP3D1
	90	2700K	1860	119		SPHWHAHDNE27YZW3D1
		3000K	1970	127		SPHWHAHDNE27YZV3D1
		3500K	2029	130		SPHWHAHDNE27YZU3D1
		4000K	2069	133		SPHWHAHDNE27YZT3D1

Product	CRI Min.	CCT	Tc = 85°C Lumin. Flux Typ. (lm)	Tc = 85°C Lumin. Eff. Typ. (lm/W)	IF (mA)	Part Number
LC019D	80	2700K	2581	138	540	SPHWHAHDNF25YZW3D1
		3000K	2722	146		SPHWHAHDNF25YZV3D1
		3500K	2805	150		SPHWHAHDNF25YZU3D1
		4000K	2863	153		SPHWHAHDNF25YZT3D1
		5000K	2894	155		SPHWHAHDNF25YZR3D1
		5700K	2894	155		SPHWHAHDNF25YZQ3D1
		6500K	2863	153		SPHWHAHDNF25YZP3D1
	90	2700K	2210	118		SPHWHAHDNF27YZW3D1
		3000K	2317	124		SPHWHAHDNF27YZV3D1
		3500K	2402	129		SPHWHAHDNF27YZU3D1
		4000K	2454	131		SPHWHAHDNF27YZT3D1
LC026D	80	2700K	3386	136	720	SPHWHAHDNG25YZW3D1
		3000K	3558	143		SPHWHAHDNG25YZV3D1
		3500K	3663	147		SPHWHAHDNG25YZU3D1
		4000K	3736	150		SPHWHAHDNG25YZT3D1
		5000K	3767	151		SPHWHAHDNG25YZR3D1
		5700K	3767	151		SPHWHAHDNG25YZQ3D1
		6500K	3736	150		SPHWHAHDNG25YZP3D1
	90	2700K	2898	116		SPHWHAHDNG27YZW3D1
		3000K	3048	122		SPHWHAHDNG27YZV3D1
		3500K	3139	126		SPHWHAHDNG27YZU3D1
		4000K	3204	129		SPHWHAHDNG27YZT3D1
LC040D	80	2700K	5246	140	1080	SPHWHAHDNK25YZW3D1
		3000K	5520	148		SPHWHAHDNK25YZV3D1
		3500K	5689	152		SPHWHAHDNK25YZU3D1
		4000K	5812	156		SPHWHAHDNK25YZT3D1
		5000K	5839	156		SPHWHAHDNK25YZR3D1
		5700K	5868	157		SPHWHAHDNK25YZQ3D1
		6500K	5804	155		SPHWHAHDNK25YZP3D1
	90	2700K	4497	120		SPHWHAHDNK27YZW3D1
		3000K	4751	127		SPHWHAHDNK27YZV3D1
		3500K	4872	130		SPHWHAHDNK27YZU3D1
		4000K	4979	133		SPHWHAHDNK27YZT3D1
LC060D	80	2700K	7277	130	1080	SPHWHAHDNL251ZW3P9
		3000K	7667	137		SPHWHAHDNL251ZV3Q3
		3500K	7904	141		SPHWHAHDNL251ZU3Q5
		4000K	8075	144		SPHWHAHDNL251ZT3Q6
		5000K	8113	144		SPHWHAHDNL251ZR3Q7
		5700K	8151	145		SPHWHAHDNL251ZQ3Q7
		6500K	8066	144		SPHWHAHDNL271ZP3Q6
	70	3000K	8284	148		SPHWHAHDNL231ZV3Q8
		4000K	8550	152		SPHWHAHDNL231ZT3R1
		5000K	8683	155		SPHWHAHDNL231ZR3R2
LC080D	80	2700K	10612	126	1620	SPHWHAHDNM251ZW3T1
		3000K	11201	133		SPHWHAHDNM251ZV3T6
		3500K	11533	137		SPHWHAHDNM251ZU3T9
		4000K	11780	140		SPHWHAHDNM251ZT3U2
		5000K	11847	141		SPHWHAHDNM251ZR3U2
		5700K	11904	141		SPHWHAHDNM251ZQ3V0
		6500K	11723	139		SPHWHAHDNM251ZP3V5
	70	3000K	12084	143		SPHWHAHDNM231ZV3U5
		4000K	12483	148		SPHWHAHDNM231ZT3U9
		5000K	12673	150		SPHWHAHDNM231ZR3V0

Ambient Light Engine

Linear Type

With its modular construction, easy to use connections, and best color consistency, the Linear Type is the perfect alternative to fluorescent lighting.

- 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
- Zhaga compatible design ensures the Linear Type Module is future proof

Finger Type

High efficacy Finger Type engines that are cost-effective and deliver uniform light output.

- Available to design slimmer luminaire integrating optical technology (LAM Type)
- Value added optical technology designed by Samsung (LAM Type)
- Easy to design-in
- Uses LM-80 test completed Samsung's LM561B for proven reliability and performance
- Optimized number of packages for superior light uniformity
- Good thermal performance leads to greater durability and long lifetimes

Applications

- Pendant Lighting
- Surface-mounted Lighting
- Ambient Lighting

Series	Part Number	Watt	Vf	If	lm	lm/W	Ra(min)	CCT	Dimension (mm)	
H-series G3_LT-H562C	SI-B8T10156HWW	10.8W	45.0V	240mA	2.020	187	80	4000K	560x24	40
H-series G3_LT-H282C	SI-B8T05128HWW	5.4W	22.5V	240mA	1.010	187	80	4000K	280x24	40
S-series_LT-S562H	SI-B8T14156HWW	13.2W	46.9V	280mA	2.250	171	80	4000K	560x24	50
S-series_LT-S562H	SI-B8T14256HWW	13.2W	46.9V	280mA	2.250	171	80	4000K	560x24	50
S-series_LT-S282H	SI-B8T07128HWW	6.6W	23.4V	280mA	1.120	170	80	4000K	280x24	50
S-series_LT-S282H	SI-B8T07228HWW	6.6W	23.4V	280mA	1.120	170	80	4000K	280x24	50
V-series_LT-V562E	SI-B8T14156VWW	14.3W	47.6V	300mA	2.240	157	80	4000K	560x24	50
V-series_LT-V282E	SI-B8T07128VWW	7.1W	23.8V	300mA	1.120	157	80	4000K	280x24	50
Finger-SQ64C	SI-B8T102250WW	7.8W	11.2V	700mA	1.450	186	80	4000K	259x250	35
Finger-RT64C	SI-B8T104280WW	7.8W	11.2V	700mA	1.450	186	80	4000K	230x273	35
LAM-SQ30C	SI-B8T114250WW	10.6W	30.2V	350mA	1.515	143	80	4000K	259x250	50
LAM-RT30C	SI-B8T116280WW	10.6W	30.2V	350mA	1.515	143	80	4000K	216X273	50
Finger-SQ30C	SI-B8T113250WW	10.6W	30.2V	350mA	1.610	152	80	4000K	259x250	50
Finger-RT30C	SI-B8T115280WW	10.6W	30.2V	350mA	1.610	152	80	4000K	230X273	50
LT-R286A	SI-B8T09A280WW	9,4	32,3	290	1.501	160	80	4000K	280x55	50
LT-R286A	SI-B8T09B280WW	9,4	32,3	290	1.501	160	80	4000K	280x55	50
inFlux_L03	SL-B8T2N60L1WW	20,83	18,11	1150	2.932	141	80	4000K	559.5X23.7	65
inFlux_L04	SL-B8T3N80L1WW	33,32	24,15	1380	4.691	141	80	4000K	559.5X23.7	65
inFlux_L09	SL-B8T7N90L1WW	66,64	48,29	1380	9.382	141	80	4000K	559.5X39.6	65
inFlux_S01	SL-B8T1N00L1WW	10,41	9,05	1150	1.466	141	80	4000K	279.6X23.7	65
inFlux_S02	SL-B8T1N40L1WW	16,66	12,07	1380	2.346	141	80	4000K	279.6X23.7	65
inFlux_S04	SL-B8T4N80L1WW	33,32	24,15	1380	4.691	141	80	4000K	279.6X39.6	65
CSP Spot CO10	SI-N8V0916E0WW	9.4	23.5	400	1.040	112	80	3000K	19x19x1.5	65
CSP Spot CO20	SI-N8V1816E0WW	18.3	23.4	780	2.060	113	80	3000K	19x19x1.5	65
CSP Spot CO30	SI-N8V2716E0WW	27.4	23.4	1170	3.090	113	80	3000K	28x28x1.5	65
CSP Spot CO40	SI-N8V3616E0WW	36.5	23.4	1560	4.120	113	80	3000K	28x28x1.5	65
CSP Spot Tunable TO10	SI-N8B1016E0WW	9.2/9.8	34.1/36.2	270	1060/1150	115/118	80	2700/5000K	28x28x1.5	65
CSP Spot Tunable TO20	SI-N8B1816E0WW	17.7/18.4	34.7/36.0	510	1970/2190	111/119	80	2700/5000K	28x28x1.5	65

Large product portfolio available:
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