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Samsung LED

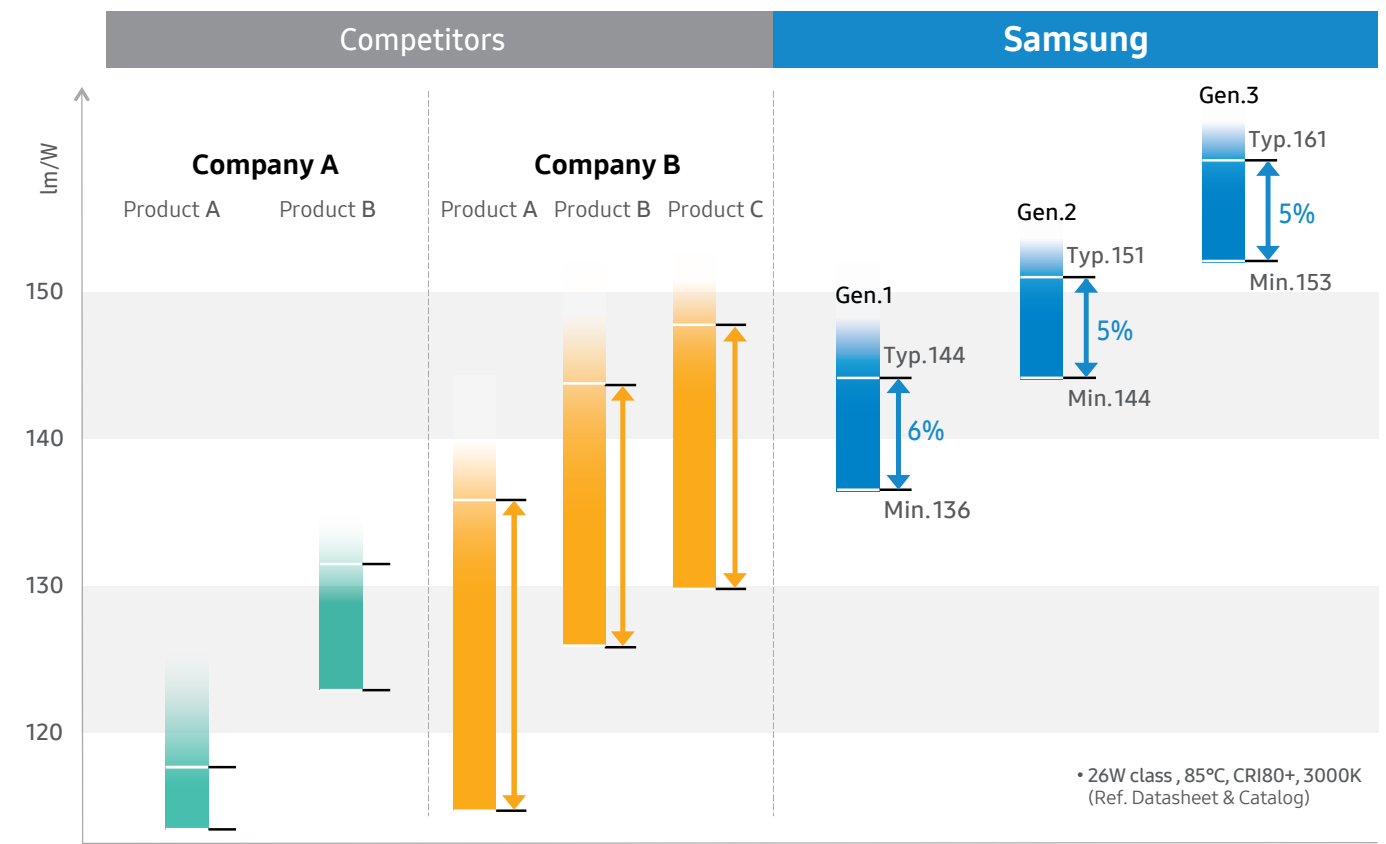
Chip-on-Board LED Package

D-series
C-series



D-series provides industry-leading performance through a wide range of wattage offerings and with its various color rendering index levels, it can satisfy the need of richer and more vibrant colors.

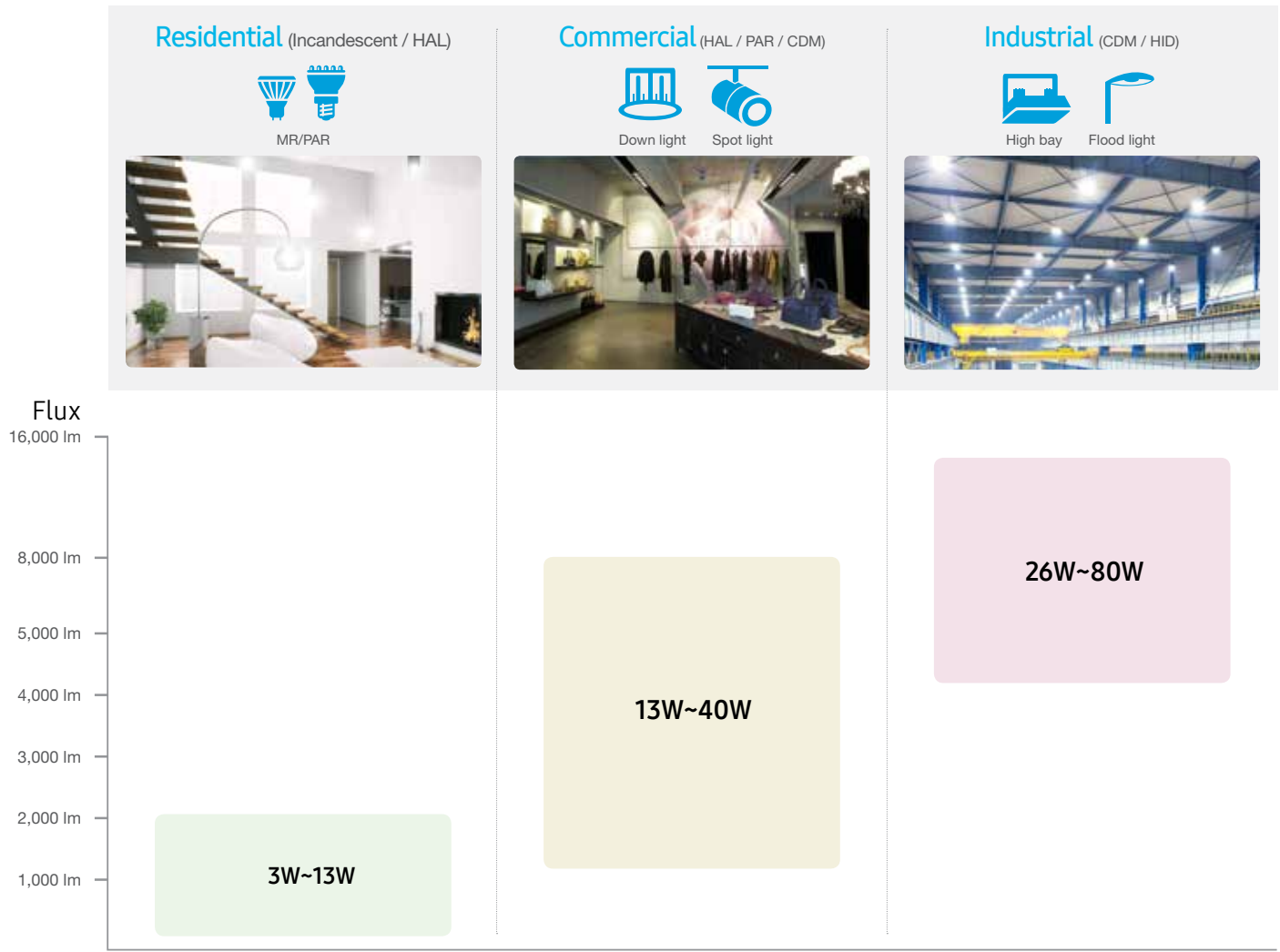
The industry-leading performance



A wide range of wattage and CRI options

Platform	Model LES	Wattage											Performance (LC026D)
		3W	6W	9W	13W	16W	19W	26W	33W	40W	60W	80W	
		9.8mm (13.5x13.5mm)				14.5mm (19x19mm)				22.0mm (28x28mm)			
Gen 3	CRI 70+							●	●	●	●	●	D3 rank: 161lm/W
	CRI 80+	●	●	●	●	●	●	●	●	●	●	●	
	CRI 90+	●	●	●	●	●	●	●	●	●	●	●	
Gen 2	CRI 70+							●	●	●	●	●	D2 rank: 151lm/W
	CRI 80+	●	●	●	●	●	●	●	●	●	●	●	
	CRI 90+	●	●	●	●	●	●	●	●	●	●	●	
Gen 1	CRI 70+										●	●	D1 rank: 143lm/W D0 rank: 136lm/W
	CRI 80+	●	●	●	●	●	●	●		●	●	●	
	CRI 90+	●	●	●	●	●	●	●		●	●	●	

Suitable for a wide variety of lighting applications



Premium color line-ups for more effective lighting

Natural color (Ultra High CRI)	Vivid color	Special color
Color value as natural as halogen lamps	Vivid color value for Displaying	Commercial Lighting for Fashion, Meat, Vegetable

D-series Gen 3



T _J = 85°C	LC003D Gen 3	LC006D Gen 3	LC009D Gen 3	LC013D Gen 3	LC016D Gen 3	LC019D Gen 3	LC026D Gen 3	LC033D Gen 3	LC040D Gen 3	LC060D Gen 3	LC080D Gen 3
LES	9.8mm				14.5mm				22 mm		
Typical	33.8V									50.7V	
	3.0W (90mA)	6.1W (180mA)	9.1W (270mA)	12.2W (360mA)	15.2W (450mA)	18.3W (540mA)	24.3W (720mA)	30.4W (900mA)	36.5W (1080mA)	54.8W (1080mA)	82.1W (1620mA)
Max.	8.7W (230mA)	17.4W (460mA)	26.1W (690mA)	34.8W (920mA)	43.5W (1150mA)	52.2W (1380mA)	69.6W (1840mA)	86.9W (2300mA)	104.3W (2760mA)	152.9W (2760mA)	229.3W (4140mA)
Size	13.5mm x 13.5mm				19mm x 19mm				28mm x 28mm		

Color Variation

Product	CRI90+					CRI80+								CRI70+		
	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	5700K	6500K	3000K	4000K	5000K	
LC003D Gen3	o	o	o	o	o	o	o	o	o	o	o	o				
LC006D Gen3	o	o	o	o	o	o	o	o	o	o	o	o				
LC009D Gen3	o	o	o	o	o	o	o	o	o	o	o	o				
LC013D Gen3	o	o	o	o	o	o	o	o	o	o	o	o				
LC016D Gen3	o	o	o	o	o	o	o	o	o	o	o	o				
LC019D Gen3	o	o	o	o	o	o	o	o	o	o	o	o				
LC026D Gen3	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
LC033D Gen3	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
LC040D Gen3	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
LC060D Gen3						o	o	o	o	o	o	o	o	o	o	
LC080D Gen3						o	o	o	o	o	o	o	o	o	o	
MacAdam 2-Step	o	o	o	o		o	o	o	o							
MacAdam 3-Step	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	

※ CRI: Minimum

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC003D Gen 3	80+	2700	MacAdam 2step	SPHWAHDNA25YZW2D3	475	156	90mA 33.8V
			MacAdam 3step	SPHWAHDNA25YZW3D3			
		3000	MacAdam 2step	SPHWAHDNA25YZV2D3	499	164	
			MacAdam 3step	SPHWAHDNA25YZV3D3			
		3500	MacAdam 2step	SPHWAHDNA25YZU2D3	514	169	
			MacAdam 3step	SPHWAHDNA25YZU3D3			
		4000	MacAdam 2step	SPHWAHDNA25Yzt2D3	524	172	
			MacAdam 3step	SPHWAHDNA25Yzt3D3			
		5000	MacAdam 3step	SPHWAHDNA25YZR3D3	529	174	
		5700	MacAdam 3step	SPHWAHDNA25YZQ3D3	529	174	
	6500	MacAdam 3step	SPHWAHDNA25YZP3D3	524	172		
	90+	2700	MacAdam 2step	SPHWAHDNA27YZW2D3	407	134	
			MacAdam 3step	SPHWAHDNA27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNA27YZV2D3	428	141	
			MacAdam 3step	SPHWAHDNA27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNA27YZU2D3	441	145	
			MacAdam 3step	SPHWAHDNA27YZU3D3			
		4000	MacAdam 2step	SPHWAHDNA27Yzt2D3	450	148	
			MacAdam 3step	SPHWAHDNA27Yzt3D3			
		5000	MacAdam 3step	SPHWAHDNA27YZR3D3	453	149	
 LC006D Gen 3		80+	2700	MacAdam 2step	SPHWAHDNB25YZW2D3	946	155
	MacAdam 3step			SPHWAHDNB25YZW3D3			
	3000		MacAdam 2step	SPHWAHDNB25YZV2D3	994	163	
			MacAdam 3step	SPHWAHDNB25YZV3D3			
	3500		MacAdam 2step	SPHWAHDNB25YZU2D3	1023	168	
			MacAdam 3step	SPHWAHDNB25YZU3D3			
	4000		MacAdam 2step	SPHWAHDNB25Yzt2D3	1043	171	
			MacAdam 3step	SPHWAHDNB25Yzt3D3			
	5000		MacAdam 3step	SPHWAHDNB25YZR3D3	1052	173	
	5700		MacAdam 3step	SPHWAHDNB25YZQ3D3	1052	173	
	6500	MacAdam 3step	SPHWAHDNB25YZP3D3	1043	171		
	90+	2700	MacAdam 2step	SPHWAHDNB27YZW2D3	809	133	
			MacAdam 3step	SPHWAHDNB27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNB27YZV2D3	851	140	
			MacAdam 3step	SPHWAHDNB27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNB27YZU2D3	877	144	
			MacAdam 3step	SPHWAHDNB27YZU3D3			
		4000	MacAdam 2step	SPHWAHDNB27Yzt2D3	895	147	
			MacAdam 3step	SPHWAHDNB27Yzt3D3			
		5000	MacAdam 3step	SPHWAHDNB27YZR3D3	902	148	

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC009D Gen 3	80+	2700	MacAdam 2step	SPHWAHDNC25YZW2D3	1405	154	270mA 33.8V
			MacAdam 3step	SPHWAHDNC25YZW3D3			
		3000	MacAdam 2step	SPHWAHDNC25YZV2D3	1476	162	
			MacAdam 3step	SPHWAHDNC25YZV3D3			
		3500	MacAdam 2step	SPHWAHDNC25YU2D3	1519	166	
			MacAdam 3step	SPHWAHDNC25YU3D3			
		4000	MacAdam 2step	SPHWAHDNC25YT2D3	1550	170	
			MacAdam 3step	SPHWAHDNC25YT3D3			
		5000	MacAdam 3step	SPHWAHDNC25YZR3D3	1563	171	
	5700	MacAdam 3step	SPHWAHDNC25YQ3D3	1563	171		
	6500	MacAdam 3step	SPHWAHDNC25YZP3D3	1550	170		
	90+	2700	MacAdam 2step	SPHWAHDNC27YZW2D3	1202	132	
			MacAdam 3step	SPHWAHDNC27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNC27YZV2D3	1264	139	
			MacAdam 3step	SPHWAHDNC27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNC27YU2D3	1302	143	
			MacAdam 3step	SPHWAHDNC27YU3D3			
		4000	MacAdam 2step	SPHWAHDNC27YT2D3	1329	146	
			MacAdam 3step	SPHWAHDNC27YT3D3			
5000		MacAdam 3step	SPHWAHDNC27YZR3D3	1340	147		
 LC013D Gen 3	80+	2700	MacAdam 2step	SPHWAHDND35YZW2D3	1845	152	360mA 33.8V
			MacAdam 3step	SPHWAHDND35YZW3D3			
		3000	MacAdam 2step	SPHWAHDND35YZV2D3	1939	159	
			MacAdam 3step	SPHWAHDND35YZV3D3			
		3500	MacAdam 2step	SPHWAHDND35YU2D3	1996	164	
			MacAdam 3step	SPHWAHDND35YU3D3			
		4000	MacAdam 2step	SPHWAHDND35YT2D3	2036	167	
			MacAdam 3step	SPHWAHDND35YT3D3			
		5000	MacAdam 3step	SPHWAHDND35YZR3D3	2053	169	
	5700	MacAdam 3step	SPHWAHDND35YQ3D3	2053	169		
	6500	MacAdam 3step	SPHWAHDND35YZP3D3	2036	167		
	90+	2700	MacAdam 2step	SPHWAHDND37YZW2D3	1579	130	
			MacAdam 3step	SPHWAHDND37YZW3D3			
		3000	MacAdam 2step	SPHWAHDND37YZV2D3	1661	137	
			MacAdam 3step	SPHWAHDND37YZV3D3			
		3500	MacAdam 2step	SPHWAHDND37YU2D3	1710	141	
			MacAdam 3step	SPHWAHDND37YU3D3			
		4000	MacAdam 2step	SPHWAHDND37YT2D3	1745	143	
			MacAdam 3step	SPHWAHDND37YT3D3			
5000		MacAdam 3step	SPHWAHDND37YZR3D3	1760	145		

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC016D Gen 3	80+	2700	MacAdam 2step	SPHWAHDNE25YZW2D3	2376	156	450mA 33.8V
			MacAdam 3step	SPHWAHDNE25YZW3D3			
		3000	MacAdam 2step	SPHWAHDNE25YZV2D3	2497	164	
			MacAdam 3step	SPHWAHDNE25YZV3D3			
		3500	MacAdam 2step	SPHWAHDNE25YU2D3	2570	169	
			MacAdam 3step	SPHWAHDNE25YU3D3			
		4000	MacAdam 2step	SPHWAHDNE25YT2D3	2622	172	
			MacAdam 3step	SPHWAHDNE25YT3D3			
		5000	MacAdam 3step	SPHWAHDNE25YZR3D3	2644	174	
	5700	MacAdam 3step	SPHWAHDNE25YQ3D3	2644	174		
	6500	MacAdam 3step	SPHWAHDNE25YP3D3	2622	172		
	90+	2700	MacAdam 2step	SPHWAHDNE27YZW2D3	2033	134	
			MacAdam 3step	SPHWAHDNE27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNE27YZV2D3	2139	141	
			MacAdam 3step	SPHWAHDNE27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNE27YU2D3	2203	145	
			MacAdam 3step	SPHWAHDNE27YU3D3			
		4000	MacAdam 2step	SPHWAHDNE27YT2D3	2248	148	
			MacAdam 3step	SPHWAHDNE27YT3D3			
5000		MacAdam 3step	SPHWAHDNE27YZR3D3	2267	149		
 LC019D Gen 3	80+	2700	MacAdam 2step	SPHWAHDNF25YZW2D3	2837	155	540mA 33.8V
			MacAdam 3step	SPHWAHDNF25YZW3D3			
		3000	MacAdam 2step	SPHWAHDNF25YZV2D3	2982	163	
			MacAdam 3step	SPHWAHDNF25YZV3D3			
		3500	MacAdam 2step	SPHWAHDNF25YU2D3	3069	168	
			MacAdam 3step	SPHWAHDNF25YU3D3			
		4000	MacAdam 2step	SPHWAHDNF25YT2D3	3130	171	
			MacAdam 3step	SPHWAHDNF25YT3D3			
		5000	MacAdam 3step	SPHWAHDNF25YZR3D3	3157	173	
	5700	MacAdam 3step	SPHWAHDNF25YQ3D3	3157	173		
	6500	MacAdam 3step	SPHWAHDNF25YP3D3	3130	171		
	90+	2700	MacAdam 2step	SPHWAHDNF27YZW2D3	2428	133	
			MacAdam 3step	SPHWAHDNF27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNF27YZV2D3	2554	140	
			MacAdam 3step	SPHWAHDNF27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNF27YU2D3	2630	144	
			MacAdam 3step	SPHWAHDNF27YU3D3			
		4000	MacAdam 2step	SPHWAHDNF27YT2D3	2684	147	
			MacAdam 3step	SPHWAHDNF27YT3D3			
		5000	MacAdam 3step	SPHWAHDNF27YZR3D3	2707	148	

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC026D Gen 3	70+	3000	MacAdam 3step	SPHWAHDNG23YZV3D3	4230	174	720mA 33.8V
		4000	MacAdam 3step	SPHWAHDNG23Yzt3D3	4308	177	
		5000	MacAdam 3step	SPHWAHDNG23YzR3D3	4387	180	
	80+	2700	MacAdam 2step	SPHWAHDNG25YZW2D3	3727	153	
			MacAdam 3step	SPHWAHDNG25YZW3D3			
		3000	MacAdam 2step	SPHWAHDNG25YZV2D3	3917	161	
			MacAdam 3step	SPHWAHDNG25YZV3D3			
		3500	MacAdam 2step	SPHWAHDNG25YzU2D3	4032	166	
			MacAdam 3step	SPHWAHDNG25YzU3D3			
		4000	MacAdam 2step	SPHWAHDNG25Yzt2D3	4112	169	
			MacAdam 3step	SPHWAHDNG25Yzt3D3			
		5000	MacAdam 3step	SPHWAHDNG25YzR3D3	4147	170	
		5700	MacAdam 3step	SPHWAHDNG25YzQ3D3	4147	170	
		6500	MacAdam 3step	SPHWAHDNG25YzP3D3	4112	169	
	90+	2700	MacAdam 2step	SPHWAHDNG27YZW2D3	3190	131	
			MacAdam 3step	SPHWAHDNG27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNG27YZV2D3	3355	138	
			MacAdam 3step	SPHWAHDNG27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNG27YzU2D3	3455	142	
			MacAdam 3step	SPHWAHDNG27YzU3D3			
		4000	MacAdam 2step	SPHWAHDNG27Yzt2D3	3526	145	
			MacAdam 3step	SPHWAHDNG27Yzt3D3			
5000	MacAdam 3step	SPHWAHDNG27YzR3D3	3556	146			
 LC033D Gen 3	70+	3000	MacAdam 3step	SPHWAHDNH23YZV3D3	5235	172	900mA 33.8V
		4000	MacAdam 3step	SPHWAHDNH23Yzt3D3	5332	175	
		5000	MacAdam 3step	SPHWAHDNH23YzR3D3	5429	178	
	80+	2700	MacAdam 2step	SPHWAHDNH25YZW2D3	4612	152	
			MacAdam 3step	SPHWAHDNH25YZW3D3			
		3000	MacAdam 2step	SPHWAHDNH25YZV2D3	4847	159	
			MacAdam 3step	SPHWAHDNH25YZV3D3			
		3500	MacAdam 2step	SPHWAHDNH25YzU2D3	4989	164	
			MacAdam 3step	SPHWAHDNH25YzU3D3			
		4000	MacAdam 2step	SPHWAHDNH25Yzt2D3	5089	167	
			MacAdam 3step	SPHWAHDNH25Yzt3D3			
		5000	MacAdam 3step	SPHWAHDNH25YzR3D3	5132	169	
		5700	MacAdam 3step	SPHWAHDNH25YzQ3D3	5132	169	
		6500	MacAdam 3step	SPHWAHDNH25YzP3D3	5089	167	

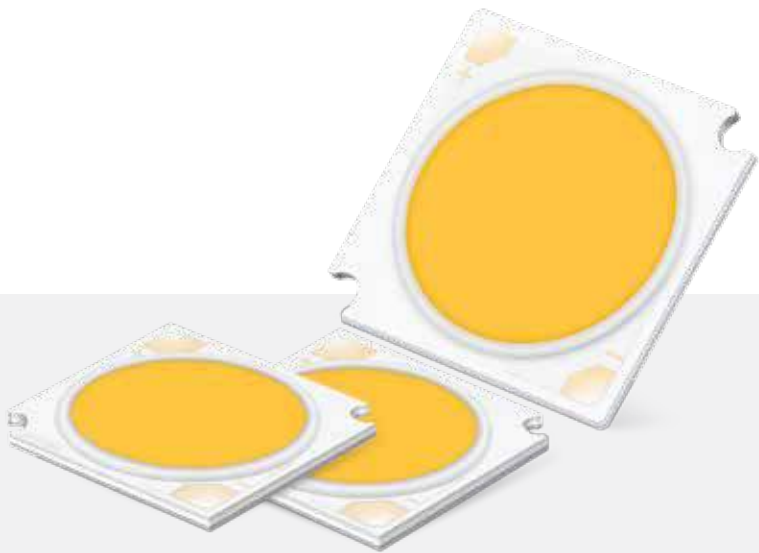
Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC033D Gen 3	90+	2700	MacAdam 2step	SPHWAHDNH27YZW2D3	3947	130	900mA 33.8V
			MacAdam 3step	SPHWAHDNH27YZW3D3			
		3000	MacAdam 2step	SPHWAHDNH27YZV2D3	4152	136	
			MacAdam 3step	SPHWAHDNH27YZV3D3			
		3500	MacAdam 2step	SPHWAHDNH27YZU2D3	4276	141	
			MacAdam 3step	SPHWAHDNH27YZU3D3			
		4000	MacAdam 2step	SPHWAHDNH27Yzt2D3	4364	143	
			MacAdam 3step	SPHWAHDNH27Yzt3D3			
		5000	MacAdam 3step	SPHWAHDNH27YzR3D3	4401	145	
		 LC040D Gen 3	70+	3000	MacAdam 3step	SPHWAHDNK23YZV3D3	
4000	MacAdam 3step			SPHWAHDNK23Yzt3D3	6560	180	
5000	MacAdam 3step			SPHWAHDNK23YzR3D3	6679	183	
80+	2700		MacAdam 2step	SPHWAHDNK25YZW2D3	5675	155	
			MacAdam 3step	SPHWAHDNK25YZW3D3			
	3000		MacAdam 2step	SPHWAHDNK25YZV2D3	5963	163	
			MacAdam 3step	SPHWAHDNK25YZV3D3			
	3500		MacAdam 2step	SPHWAHDNK25YzU2D3	6138	168	
			MacAdam 3step	SPHWAHDNK25YzU3D3			
	4000		MacAdam 2step	SPHWAHDNK25Yzt2D3	6261	172	
		MacAdam 3step	SPHWAHDNK25Yzt3D3				
	5000	MacAdam 3step	SPHWAHDNK25YzR3D3	6313	173		
	5700	MacAdam 3step	SPHWAHDNK25YzQ3D3	6313	173		
	6500	MacAdam 3step	SPHWAHDNK25YzP3D3	6261	172		
90+	2700	MacAdam 2step	SPHWAHDNK27YZW2D3	4856	133		
		MacAdam 3step	SPHWAHDNK27YZW3D3				
	3000	MacAdam 2step	SPHWAHDNK27YZV2D3	5108	140		
		MacAdam 3step	SPHWAHDNK27YZV3D3				
	3500	MacAdam 2step	SPHWAHDNK27YzU2D3	5260	144		
		MacAdam 3step	SPHWAHDNK27YzU3D3				
	4000	MacAdam 2step	SPHWAHDNK27Yzt2D3	5369	147		
		MacAdam 3step	SPHWAHDNK27Yzt3D3				
	5000	MacAdam 3step	SPHWAHDNK27YzR3D3	5415	148		

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC060D Gen 3	70+	3000	MacAdam 3step	SPHWAHDNL231ZV3D3	9518	174	1080mA 50.7V
		4000	MacAdam 3step	SPHWAHDNL231ZT3D3	9694	177	
		5000	MacAdam 3step	SPHWAHDNL231ZR3D3	9870	180	
	80+	2700	MacAdam 2step	SPHWAHDNL251ZW2D3	8386	153	
			MacAdam 3step	SPHWAHDNL251ZW3D3			
		3000	MacAdam 2step	SPHWAHDNL251ZV2D3	8813	161	
			MacAdam 3step	SPHWAHDNL251ZV3D3			
		3500	MacAdam 2step	SPHWAHDNL251ZU2D3	9071	166	
			MacAdam 3step	SPHWAHDNL251ZU3D3			
		4000	MacAdam 2step	SPHWAHDNL251ZT2D3	9253	169	
			MacAdam 3step	SPHWAHDNL251ZT3D3			
		5000	MacAdam 3step	SPHWAHDNL251ZR3D3	9330	170	
		5700	MacAdam 3step	SPHWAHDNL251ZQ3D3	9330	170	
		6500	MacAdam 3step	SPHWAHDNL251ZP3D3	9253	169	
	90+	2700	MacAdam 2step	SPHWAHDNL271ZW2D3	7177	131	
			MacAdam 3step	SPHWAHDNL271ZW3D3			
		3000	MacAdam 2step	SPHWAHDNL271ZV2D3	7549	138	
			MacAdam 3step	SPHWAHDNL271ZV3D3			
		3500	MacAdam 2step	SPHWAHDNL271ZU2D3	7774	142	
			MacAdam 3step	SPHWAHDNL271ZU3D3			
		4000	MacAdam 2step	SPHWAHDNL271ZT2D3	7934	145	
			MacAdam 3step	SPHWAHDNL271ZT3D3			
		5000	MacAdam 3step	SPHWAHDNL271ZR3D3	8002	146	

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC080D Gen 3	70+	3000	MacAdam 3step	SPHWAHDNM231ZV3D3	14115	172	1620mA 50.7V	
		4000	MacAdam 3step	SPHWAHDNM231ZT3D3	14376	175		
		5000	MacAdam 3step	SPHWAHDNM231ZR3D3	14637	178		
	80+	2700	MacAdam 2step	SPHWAHDNM251ZW2D3	12437	151		
			MacAdam 3step	SPHWAHDNM251ZW3D3				
		3000	MacAdam 2step	SPHWAHDNM251ZV2D3	13069	159		
			MacAdam 3step	SPHWAHDNM251ZV3D3				
		3500	MacAdam 2step	SPHWAHDNM251ZU2D3	13452	164		
			MacAdam 3step	SPHWAHDNM251ZU3D3				
		4000	MacAdam 2step	SPHWAHDNM251ZT2D3	13721	167		
			MacAdam 3step	SPHWAHDNM251ZT3D3				
		5000	MacAdam 3step	SPHWAHDNM251ZR3D3	13836	168		
		5700	MacAdam 3step	SPHWAHDNM251ZQ3D3	13836	168		
		6500	MacAdam 3step	SPHWAHDNM251ZP3D3	13721	167		
	90+	2700	MacAdam 2step	SPHWAHDNM271ZW2D3	10643	130		
			MacAdam 3step	SPHWAHDNM271ZW3D3				
		3000	MacAdam 2step	SPHWAHDNM271ZV2D3	11195	136		
			MacAdam 3step	SPHWAHDNM271ZV3D3				
		3500	MacAdam 2step	SPHWAHDNM271ZU2D3	11529	140		
			MacAdam 3step	SPHWAHDNM271ZU3D3				
		4000	MacAdam 2step	SPHWAHDNM271ZT2D3	11766	143		
			MacAdam 3step	SPHWAHDNM271ZT3D3				
		5000	MacAdam 3step	SPHWAHDNM271ZR3D3	11867	144		

D-series Gen 2



T _J = 85°C	LC003D Gen 2	LC006D Gen 2	LC009D Gen 2	LC013D Gen 2	LC016D Gen 2	LC019D Gen 2	LC026D Gen 2	LC033D Gen 2	LC040D Gen 2	LC060D Gen 2	LC080D Gen 2
LES	9.8mm				14.5mm				22 mm		
Typical	34.6 V									52 V	
	3.1 W (90 mA)	6.2 W (180 mA)	9.4 W (270 mA)	12.5 W (360 mA)	15.6 W (450 mA)	18.7 W (540 mA)	24.9 W (720 mA)	31.1W (900 mA)	37.4 W (1080 mA)	56.1W (1080 mA)	84.2 W (1620 mA)
Max.	8.6 W (230 mA)	17.2W (460 mA)	25.9 W (690 mA)	34.5 W (920 mA)	43.1 W (1150 mA)	51.8 W (1380 mA)	69 W (1840 mA)	86.2 W (2300 mA)	103.5 W (2760 mA)	143.4 W (2760 mA)	215 W (4140 mA)
Size	13.5mm x 13.5mm				19mm x 19mm				28mm x 28mm		

Color Variation

Product	CRI90+					CRI80+							CRI70+		
	2700K	3000K	3500K	4000K	5000K	2700K	3000K	3500K	4000K	5000K	5700K	6500K	3000K	4000K	5000K
LC003D Gen2	o	o	o	o	o	o	o	o	o	o	o	o			
LC006D Gen2	o	o	o	o	o	o	o	o	o	o	o	o			
LC009D Gen2	o	o	o	o	o	o	o	o	o	o	o	o			
LC013D Gen2	o	o	o	o	o	o	o	o	o	o	o	o			
LC016D Gen2	o	o	o	o	o	o	o	o	o	o	o	o			
LC019D Gen2	o	o	o	o	o	o	o	o	o	o	o	o			
LC026D Gen2	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
LC033D Gen2	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
LC040D Gen2	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
LC060D Gen2						o	o	o	o	o	o	o	o	o	o
LC080D Gen2						o	o	o	o	o	o	o	o	o	o
MacAdam 2-Step	o	o	o	o		o	o	o	o						
MacAdam 3-Step	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

※ CRI: Minimum

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC003D Gen 2	80+	2700	MacAdam 2step	SPHWAHDNA25YZW2D2	459	147	90mA 34.6V
			MacAdam 3step	SPHWAHDNA25YZW3D2			
		3000	MacAdam 2step	SPHWAHDNA25YZV2D2	483	155	
			MacAdam 3step	SPHWAHDNA25YZV3D2			
		3500	MacAdam 2step	SPHWAHDNA25YZU2D2	501	161	
			MacAdam 3step	SPHWAHDNA25YZU3D2			
		4000	MacAdam 2step	SPHWAHDNA25YZT2D2	507	163	
			MacAdam 3step	SPHWAHDNA25YZT3D2			
		5000	MacAdam 3step	SPHWAHDNA25YZR3D2	513	165	
		5700	MacAdam 3step	SPHWAHDNA25YZQ3D2	513	165	
		6500	MacAdam 3step	SPHWAHDNA25YZP3D2	507	163	
	90+	2700	MacAdam 2step	SPHWAHDNA27YZW2D2	388	125	
			MacAdam 3step	SPHWAHDNA27YZW3D2			
		3000	MacAdam 2step	SPHWAHDNA27YZV2D2	406	130	
			MacAdam 3step	SPHWAHDNA27YZV3D2			
		3500	MacAdam 2step	SPHWAHDNA27YZU2D2	419	135	
			MacAdam 3step	SPHWAHDNA27YZU3D2			
		4000	MacAdam 2step	SPHWAHDNA27YZT2D2	427	137	
			MacAdam 3step	SPHWAHDNA27YZT3D2			
		5000	MacAdam 3step	SPHWAHDNA27YZR3D2	430	138	
		 LC006D Gen 2	80+	2700	MacAdam 2step	SPHWAHDNB25YZW2D2	
MacAdam 3step	SPHWAHDNB25YZW3D2						
3000	MacAdam 2step			SPHWAHDNB25YZV2D2	971	156	
	MacAdam 3step			SPHWAHDNB25YZV3D2			
3500	MacAdam 2step			SPHWAHDNB25YZU2D2	1001	161	
	MacAdam 3step			SPHWAHDNB25YZU3D2			
4000	MacAdam 2step			SPHWAHDNB25YZT2D2	1024	164	
	MacAdam 3step			SPHWAHDNB25YZT3D2			
5000	MacAdam 3step			SPHWAHDNB25YZR3D2	1030	165	
5700	MacAdam 3step			SPHWAHDNB25YZQ3D2	1030	165	
6500	MacAdam 3step			SPHWAHDNB25YZP3D2	1018	163	
90+	2700		MacAdam 2step	SPHWAHDNB27YZW2D2	786	126	
			MacAdam 3step	SPHWAHDNB27YZW3D2			
	3000		MacAdam 2step	SPHWAHDNB27YZV2D2	824	132	
			MacAdam 3step	SPHWAHDNB27YZV3D2			
	3500		MacAdam 2step	SPHWAHDNB27YZU2D2	853	137	
			MacAdam 3step	SPHWAHDNB27YZU3D2			
	4000		MacAdam 2step	SPHWAHDNB27YZT2D2	870	140	
			MacAdam 3step	SPHWAHDNB27YZT3D2			
	5000		MacAdam 3step	SPHWAHDNB27YZR3D2	874	140	

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC009D Gen 2	80+	2700	MacAdam 2step	SPHWAHDNC25YZW2D2	1342	144	270mA 34.6V
			MacAdam 3step	SPHWAHDNC25YZW3D2			
		3000	MacAdam 2step	SPHWAHDNC25YZV2D2	1418	152	
			MacAdam 3step	SPHWAHDNC25YZV3D2			
		3500	MacAdam 2step	SPHWAHDNC25YZU2D2	1459	156	
			MacAdam 3step	SPHWAHDNC25YZU3D2			
		4000	MacAdam 2step	SPHWAHDNC25YZT2D2	1494	160	
			MacAdam 3step	SPHWAHDNC25YZT3D2			
		5000	MacAdam 3step	SPHWAHDNC25YZR3D2	1506	161	
		5700	MacAdam 3step	SPHWAHDNC25YZQ3D2	1506	161	
	6500	MacAdam 3step	SPHWAHDNC25YZP3D2	1488	159		
	90+	2700	MacAdam 2step	SPHWAHDNC27YZW2D2	1152	123	
			MacAdam 3step	SPHWAHDNC27YZW3D2			
		3000	MacAdam 2step	SPHWAHDNC27YZV2D2	1206	129	
			MacAdam 3step	SPHWAHDNC27YZV3D2			
		3500	MacAdam 2step	SPHWAHDNC27YZU2D2	1245	133	
			MacAdam 3step	SPHWAHDNC27YZU3D2			
4000		MacAdam 2step	SPHWAHDNC27YZT2D2	1273	136		
MacAdam 3step	SPHWAHDNC27YZT3D2						
5000	MacAdam 3step	SPHWAHDNC27YZR3D2	1278	137			
 LC013D Gen 2	80+	2700	MacAdam 2step	SPHWAHDND25YZW2D2	1764	142	360mA 34.6V
			MacAdam 3step	SPHWAHDND25YZW3D2			
		3000	MacAdam 2step	SPHWAHDND25YZV2D2	1857	149	
			MacAdam 3step	SPHWAHDND25YZV3D2			
		3500	MacAdam 2step	SPHWAHDND25YZU2D2	1915	154	
			MacAdam 3step	SPHWAHDND25YZU3D2			
		4000	MacAdam 2step	SPHWAHDND25YZT2D2	1950	157	
			MacAdam 3step	SPHWAHDND25YZT3D2			
		5000	MacAdam 3step	SPHWAHDND25YZR3D2	1967	158	
		5700	MacAdam 3step	SPHWAHDND25YZQ3D2	1967	158	
	6500	MacAdam 3step	SPHWAHDND25YZP3D2	1938	156		
	90+	2700	MacAdam 2step	SPHWAHDND27YZW2D2	1509	121	
			MacAdam 3step	SPHWAHDND27YZW3D2			
		3000	MacAdam 2step	SPHWAHDND27YZV2D2	1580	127	
			MacAdam 3step	SPHWAHDND27YZV3D2			
		3500	MacAdam 2step	SPHWAHDND27YZU2D2	1635	131	
			MacAdam 3step	SPHWAHDND27YZU3D2			
4000		MacAdam 2step	SPHWAHDND27YZT2D2	1670	134		
MacAdam 3step	SPHWAHDND27YZT3D2						
5000	MacAdam 3step	SPHWAHDND27YZR3D2	1674	134			

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC016D Gen 2	80+	2700	MacAdam 2step	SPHWAHDNE25YZW2D2	2293	147	450mA 34.6V
			MacAdam 3step	SPHWAHDNE25YZW3D2			
		3000	MacAdam 2step	SPHWAHDNE25YZV2D2	2423	156	
			MacAdam 3step	SPHWAHDNE25YZV3D2			
		3500	MacAdam 2step	SPHWAHDNE25YZU2D2	2513	161	
			MacAdam 3step	SPHWAHDNE25YZU3D2			
		4000	MacAdam 2step	SPHWAHDNE25YZT2D2	2558	164	
			MacAdam 3step	SPHWAHDNE25YZT3D2			
		5000	MacAdam 3step	SPHWAHDNE25YZR3D2	2581	166	
		5700	MacAdam 3step	SPHWAHDNE25YZQ3D2	2581	166	
	6500	MacAdam 3step	SPHWAHDNE25YZP3D2	2558	164		
	90+	2700	MacAdam 2step	SPHWAHDNE27YZW2D2	1967	126	
			MacAdam 3step	SPHWAHDNE27YZW3D2			
		3000	MacAdam 2step	SPHWAHDNE27YZV2D2	2084	134	
			MacAdam 3step	SPHWAHDNE27YZV3D2			
		3500	MacAdam 2step	SPHWAHDNE27YZU2D2	2146	138	
			MacAdam 3step	SPHWAHDNE27YZU3D2			
4000		MacAdam 2step	SPHWAHDNE27YZT2D2	2189	141		
MacAdam 3step	SPHWAHDNE27YZT3D2						
5000	MacAdam 3step	SPHWAHDNE27YZR3D2	2209	142			
 LC019D Gen 2	80+	2700	MacAdam 2step	SPHWAHDNF25YZW2D2	2728	146	540mA 34.6V
			MacAdam 3step	SPHWAHDNF25YZW3D2			
		3000	MacAdam 2step	SPHWAHDNF25YZV2D2	2877	154	
			MacAdam 3step	SPHWAHDNF25YZV3D2			
		3500	MacAdam 2step	SPHWAHDNF25YZU2D2	2965	159	
			MacAdam 3step	SPHWAHDNF25YZU3D2			
		4000	MacAdam 2step	SPHWAHDNF25YZT2D2	3026	162	
			MacAdam 3step	SPHWAHDNF25YZT3D2			
		5000	MacAdam 3step	SPHWAHDNF25YZR3D2	3059	164	
		5700	MacAdam 3step	SPHWAHDNF25YZQ3D2	3059	164	
	6500	MacAdam 3step	SPHWAHDNF25YZP3D2	3026	162		
	90+	2700	MacAdam 2step	SPHWAHDNF27YZW2D2	2336	125	
			MacAdam 3step	SPHWAHDNF27YZW3D2			
		3000	MacAdam 2step	SPHWAHDNF27YZV2D2	2449	131	
			MacAdam 3step	SPHWAHDNF27YZV3D2			
		3500	MacAdam 2step	SPHWAHDNF27YZU2D2	2539	136	
			MacAdam 3step	SPHWAHDNF27YZU3D2			
4000		MacAdam 2step	SPHWAHDNF27YZT2D2	2594	139		
		MacAdam 3step	SPHWAHDNF27YZT3D2				
5000		MacAdam 3step	SPHWAHDNF27YZR3D2	2596	139		

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC026D Gen 2	80+	2700	MacAdam 2step	SPHWWAHDNG25YZW2D2	3580	144	720mA 34.6V
			MacAdam 3step	SPHWWAHDNG25YZW3D2			
		3000	MacAdam 2step	SPHWWAHDNG25YZV2D2	3762	151	
			MacAdam 3step	SPHWWAHDNG25YZV3D2			
		3500	MacAdam 2step	SPHWWAHDNG25YZU2D2	3872	155	
			MacAdam 3step	SPHWWAHDNG25YZU3D2			
		4000	MacAdam 2step	SPHWWAHDNG25YZT2D2	3950	159	
			MacAdam 3step	SPHWWAHDNG25YZT3D2			
		5000	MacAdam 3step	SPHWWAHDNG25YZR3D2	3983	160	
	5700	MacAdam 3step	SPHWWAHDNG25YZQ3D2	3983	160		
	6500	MacAdam 3step	SPHWWAHDNG25YZP3D2	3950	159		
	90+	2700	MacAdam 2step	SPHWWAHDNG27YZW2D2	3064	123	
			MacAdam 3step	SPHWWAHDNG27YZW3D2			
		3000	MacAdam 2step	SPHWWAHDNG27YZV2D2	3223	129	
			MacAdam 3step	SPHWWAHDNG27YZV3D2			
		3500	MacAdam 2step	SPHWWAHDNG27YZU2D2	3319	133	
			MacAdam 3step	SPHWWAHDNG27YZU3D2			
		4000	MacAdam 2step	SPHWWAHDNG27YZT2D2	3387	136	
			MacAdam 3step	SPHWWAHDNG27YZT3D2			
5000		MacAdam 3step	SPHWWAHDNG27YZR3D2	3416	137		

 LC033D Gen 2	80+	2700	MacAdam 2step	SPHWWAHDNH25YZW2D2	4418	142	900mA 34.6V
			MacAdam 3step	SPHWWAHDNH25YZW3D2			
		3000	MacAdam 2step	SPHWWAHDNH25YZV2D2	4643	149	
			MacAdam 3step	SPHWWAHDNH25YZV3D2			
		3500	MacAdam 2step	SPHWWAHDNH25YZU2D2	4779	153	
			MacAdam 3step	SPHWWAHDNH25YZU3D2			
		4000	MacAdam 2step	SPHWWAHDNH25YZT2D2	4875	157	
			MacAdam 3step	SPHWWAHDNH25YZT3D2			
		5000	MacAdam 3step	SPHWWAHDNH25YZR3D2	4916	158	
	5700	MacAdam 3step	SPHWWAHDNH25YZQ3D2	4916	158		
	6500	MacAdam 3step	SPHWWAHDNH25YZP3D2	4875	157		
	90+	2700	MacAdam 2step	SPHWWAHDNH27YZW2D2	3781	121	
			MacAdam 3step	SPHWWAHDNH27YZW2D2			
		3000	MacAdam 2step	SPHWWAHDNH27YZV2D2	3977	128	
			MacAdam 3step	SPHWWAHDNH27YZV3D2			
		3500	MacAdam 2step	SPHWWAHDNH27YZU2D2	4096	132	
			MacAdam 3step	SPHWWAHDNH27YZU3D2			
		4000	MacAdam 2step	SPHWWAHDNH27YZT2D2	4180	134	
			MacAdam 3step	SPHWWAHDNH27YZT2D2			
5000		MacAdam 3step	SPHWWAHDNH27YZR3D2	4216	135		

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC040D Gen 2	70+	3000	MacAdam 3step	SPHWAHDNK23YZV3D2	6304	169	1080mA 34.6V	
		4000	MacAdam 3step	SPHWAHDNK23Yzt3D2	6506	174		
		5000	MacAdam 3step	SPHWAHDNK23YzR3D2	6607	177		
	80+	2700	MacAdam 2step	SPHWAHDNK25YZW2D2	5547	148		
			MacAdam 3step	SPHWAHDNK25YZW3D2				
		3000	MacAdam 2step	SPHWAHDNK25YZV2D2	5837	156		
			MacAdam 3step	SPHWAHDNK25YZV3D2				
		3500	MacAdam 2step	SPHWAHDNK25YZU2D2	6016	161		
			MacAdam 3step	SPHWAHDNK25YZU3D2				
		4000	MacAdam 2step	SPHWAHDNK25Yzt2D2	6146	164		
			MacAdam 3step	SPHWAHDNK25Yzt3D2				
		5000	MacAdam 3step	SPHWAHDNK25YzR3D2	6175	165		
		5700	MacAdam 3step	SPHWAHDNK25YzQ3D2	6205	166		
		6500	MacAdam 3step	SPHWAHDNK25YzP3D2	6138	164		
		90+	2700	MacAdam 2step	SPHWAHDNK27YZW2D2	4755		127
				MacAdam 3step	SPHWAHDNK27YZW3D2			
			3000	MacAdam 2step	SPHWAHDNK27YZV2D2	5024		134
				MacAdam 3step	SPHWAHDNK27YZV3D2			
	3500		MacAdam 2step	SPHWAHDNK27YZU2D2	5152	138		
			MacAdam 3step	SPHWAHDNK27YZU3D2				
	4000		MacAdam 2step	SPHWAHDNK27Yzt2D2	5266	141		
			MacAdam 3step	SPHWAHDNK27Yzt3D2				
	5000		MacAdam 3step	SPHWAHDNK27YzR3D2	5325	143		

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC060D Gen 2	70+	3000	MacAdam 3step	SPHWAHDNL231ZV3D2	9225	164	1080mA 52V	
		4000	MacAdam 3step	SPHWAHDNL231ZT3D2	9521	170		
		5000	MacAdam 3step	SPHWAHDNL231ZR3D2	9668	172		
	80+	2700	MacAdam 2step	SPHWAHDNL251ZW2D2	8107	144		
			MacAdam 3step	SPHWAHDNL251ZW3D2				
		3000	MacAdam 2step	SPHWAHDNL251ZV2D2	8542	152		
			MacAdam 3step	SPHWAHDNL251ZV3D2				
		3500	MacAdam 2step	SPHWAHDNL251ZU2D2	8812	157		
			MacAdam 3step	SPHWAHDNL251ZU3D2				
		4000	MacAdam 2step	SPHWAHDNL251ZT2D2	8995	160		
			MacAdam 3step	SPHWAHDNL251ZT3D2				
		5000	MacAdam 3step	SPHWAHDNL251ZR3D2	9039	161		
		5700	MacAdam 3step	SPHWAHDNL251ZQ3D2	9084	162		
		6500	MacAdam 3step	SPHWAHDNL251ZP3D2	8990	160		
	90+	2700	MacAdam 2step	SPHWAHDNL271ZW2D2	6959	124		
			MacAdam 3step	SPHWAHDNL271ZW3D2				
		3000	MacAdam 2step	SPHWAHDNL271ZV2D2	7352	131		
			MacAdam 3step	SPHWAHDNL271ZV3D2				
		3500	MacAdam 2step	SPHWAHDNL271ZU2D2	7539	134		
			MacAdam 3step	SPHWAHDNL271ZU3D2				
		4000	MacAdam 2step	SPHWAHDNL271ZT2D2	7706	137		
			MacAdam 3step	SPHWAHDNL271ZT3D2				
		5000	MacAdam 3step	SPHWAHDNL271ZR3D2	7793	139		

Product	CRI	CCT (K)	Color rank	Part Number	T _J = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC080D Gen 2	70+	3000	MacAdam 3step	SPHWAHDNM231ZV3D2	13465	160	1620mA 52V	
		4000	MacAdam 3step	SPHWAHDNM231ZT3D2	13896	165		
		5000	MacAdam 3step	SPHWAHDNM231ZR3D2	14112	168		
	80+	2700	MacAdam 2step	SPHWAHDNM251ZW2D2	11815	140		
			MacAdam 3step	SPHWAHDNM251ZW3D2				
		3000	MacAdam 2step	SPHWAHDNM251ZV2D2	12468	148		
			MacAdam 3step	SPHWAHDNM251ZV3D2				
		3500	MacAdam 2step	SPHWAHDNM251ZU2D2	12852	153		
			MacAdam 3step	SPHWAHDNM251ZU3D2				
		4000	MacAdam 2step	SPHWAHDNM251ZT2D2	13123	156		
			MacAdam 3step	SPHWAHDNM251ZT3D2				
		5000	MacAdam 3step	SPHWAHDNM251ZR3D2	13196	157		
		5700	MacAdam 3step	SPHWAHDNM251ZQ3D2	13258	157		
		6500	MacAdam 3step	SPHWAHDNM251ZP3D2	13121	156		
	90+	2700	MacAdam 2step	SPHWAHDNM271ZW2D2	10157	121		
			MacAdam 3step	SPHWAHDNM271ZW3D2				
		3000	MacAdam 2step	SPHWAHDNM271ZV2D2	10731	127		
			MacAdam 3step	SPHWAHDNM271ZV3D2				
		3500	MacAdam 2step	SPHWAHDNM271ZU2D2	11004	131		
			MacAdam 3step	SPHWAHDNM271ZU3D2				
		4000	MacAdam 2step	SPHWAHDNM271ZT2D2	11247	134		
			MacAdam 3step	SPHWAHDNM271ZT3D2				
		5000	MacAdam 3step	SPHWAHDNM271ZR3D2	11375	135		

D-series Gen 1



T _J =85°C	LC003D Gen 1	LC006D Gen 1	LC009D Gen 1	LC013D Gen 1	LC016D Gen 1	LC019D Gen 1	LC026D Gen 1	LC040D Gen 1	LC060D Gen 1	LC080D Gen 1
LES	9.8 mm				14.5 mm			22 mm		
Typical	34.6 V								52 V	
	3.1 W (90 mA)	6.2 W (180 mA)	9.4 W (270 mA)	12.5 W (360 mA)	15.6 W (450 mA)	18.7 W (540 mA)	24.9 W (720 mA)	37.4 W (1080 mA)	56.1 W (1080 mA)	84.2 W (1620 mA)
Max.	8.6 W (230 mA)	17.2W (460 mA)	25.9 W (690 mA)	34.5 W (920 mA)	43.1 W (1150 mA)	51.8 W (1380 mA)	69 W (1840 mA)	103.5 W (2760 mA)	143.4 W (2760 mA)	215 W (2760 mA)
Size	13.5 x 13.5 mm				19 x 19 mm			28 x 28 mm		

Color Variation

Product		CRI90+				CRI80+							CRI70+		
		2700K	3000K	3500K	4000K	2700K	3000K	3500K	4000K	5000K	5700K	6500K	3000K	4000K	5000K
LC003D Gen1	LC003D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC006D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC009D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC013D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC016D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC019D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC026D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC040D Gen1	o	o	o	o	o	o	o	o	o	o	o			
	LC060D Gen1					o	o	o	o	o	o	o	o	o	o
LC080D Gen1					o	o	o	o	o	o	o	o	o	o	
MacAdam 2-Step	MacAdam 2-Step	o	o	o	o	o	o	o	o						
	MacAdam 3-Step	o	o	o	o	o	o	o	o	o	o	o	o	o	o

※ CRI: Minimum

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC003D Gen1	80+	2700	MacAdam 2step	SPHWAHDNA25YZW2A9	413	133	90mA 34.6V
			MacAdam 3step	SPHWAHDNA25YZW3A9			
			MacAdam 2step	SPHWAHDNA25YZW2D1	434	139	
			MacAdam 3step	SPHWAHDNA25YZW3D1			
		3000	MacAdam 2step	SPHWAHDNA25YZV2B1	435	140	
			MacAdam 3step	SPHWAHDNA25YZV3B1			
			MacAdam 2step	SPHWAHDNA25YZV2D1	457	147	
			MacAdam 3step	SPHWAHDNA25YZV3D1			
		3500	MacAdam 2step	SPHWAHDNA25YZU2B2	451	145	
			MacAdam 3step	SPHWAHDNA25YZU3B2			
			MacAdam 2step	SPHWAHDNA25YZU2D1	474	152	
			MacAdam 3step	SPHWAHDNA25YZU3D1			
		4000	MacAdam 2step	SPHWAHDNA25Yzt2B3	457	147	
			MacAdam 3step	SPHWAHDNA25Yzt3B3			
			MacAdam 2step	SPHWAHDNA25Yzt2D1	480	154	
			MacAdam 3step	SPHWAHDNA25Yzt3D1			
		5000	MacAdam 3step	SPHWAHDNA25YZR3B3	462	148	
				SPHWAHDNA25YZR3D1	485	156	
		5700	MacAdam 3step	SPHWAHDNA25YZQ3B3	462	148	
				SPHWAHDNA25YZQ3D1	485	156	
		6500	MacAdam 3step	SPHWAHDNA25YZP3B3	457	147	
				SPHWAHDNA25YZP3D1	480	154	
	90+	2700	MacAdam 2step	SPHWAHDNA27YZW2A3	349	112	
			MacAdam 3step	SPHWAHDNA27YZW3A3			
			MacAdam 2step	SPHWAHDNA27YZW2D1	367	118	
			MacAdam 3step	SPHWAHDNA27YZW3D1			
		3000	MacAdam 2step	SPHWAHDNA27YZV2A4	365	117	
			MacAdam 3step	SPHWAHDNA27YZV3A4			
			MacAdam 2step	SPHWAHDNA27YZV2D1	384	123	
			MacAdam 3step	SPHWAHDNA27YZV3D1			
		3500	MacAdam 2step	SPHWAHDNA27YZU2A5	377	121	
			MacAdam 3step	SPHWAHDNA27YZU3A5			
MacAdam 2step			SPHWAHDNA27YZU2D1	396	127		
MacAdam 3step			SPHWAHDNA27YZU3D1				
4000		MacAdam 2step	SPHWAHDNA27Yzt2A6	385	124		
		MacAdam 3step	SPHWAHDNA27Yzt3A6				
		MacAdam 2step	SPHWAHDNA27Yzt2D1	404	130		
		MacAdam 3step	SPHWAHDNA27Yzt3D1				
5000		MacAdam 3step	SPHWAHDNA27YZR3A6	387	124		
			SPHWAHDNA27YZR3D1	407	131		

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC006D Gen1	80+	2700	MacAdam 2step	SPHWWAHDNB25YZW2E9	832	134	180mA 34.6V	
			MacAdam 3step	SPHWWAHDNB25YZW3E9				
			MacAdam 2step	SPHWWAHDNB25YZW2D1	874	140		
			MacAdam 3step	SPHWWAHDNB25YZW3D1				
		3000	MacAdam 2step	SPHWWAHDNB25YZV2F3	875	140		
			MacAdam 3step	SPHWWAHDNB25YZV3F3				
			MacAdam 2step	SPHWWAHDNB25YZV2D1	919	148		
			MacAdam 3step	SPHWWAHDNB25YZV3D1				
		3500	MacAdam 2step	SPHWWAHDNB25YZU2F5	902	145		
			MacAdam 3step	SPHWWAHDNB25YZU3F5				
			MacAdam 2step	SPHWWAHDNB25YZU2D1	947	152		
			MacAdam 3step	SPHWWAHDNB25YZU3D1				
		4000	MacAdam 2step	SPHWWAHDNB25YZT2F8	923	148		
			MacAdam 3step	SPHWWAHDNB25YZT3F8				
			MacAdam 2step	SPHWWAHDNB25YZT2D1	969	156		
			MacAdam 3step	SPHWWAHDNB25YZT3D1				
		5000	MacAdam 3step	SPHWWAHDNB25YZR3F8	928	149		
				SPHWWAHDNB25YZR3D1	975	157		
		5700	MacAdam 3step	SPHWWAHDNB25YZQ3F8	928	149		
				SPHWWAHDNB25YZQ3D1	975	157		
		6500	MacAdam 3step	SPHWWAHDNB25YZP3F7	918	147		
				SPHWWAHDNB25YZP3D1	964	155		
	90+	2700	MacAdam 2step	SPHWWAHDNB27YZW2D7	709	114		
			MacAdam 3step	SPHWWAHDNB27YZW3D7				
			MacAdam 2step	SPHWWAHDNB27YZW2D1	744	119		
			MacAdam 3step	SPHWWAHDNB27YZW3D1				
			3000	MacAdam 2step	SPHWWAHDNB27YZV2E9	743		119
				MacAdam 3step	SPHWWAHDNB27YZV3E9			
				MacAdam 2step	SPHWWAHDNB27YZV2D1	780		125
				MacAdam 3step	SPHWWAHDNB27YZV3D1			
		3500	MacAdam 2step	SPHWWAHDNB27YZU2E0	768	123		
			MacAdam 3step	SPHWWAHDNB27YZU3E0				
MacAdam 2step			SPHWWAHDNB27YZU2D1	807	130			
MacAdam 3step			SPHWWAHDNB27YZU3D1					
4000		MacAdam 2step	SPHWWAHDNB27YZT2E4	784	126			
		MacAdam 3step	SPHWWAHDNB27YZT3E4					
		MacAdam 2step	SPHWWAHDNB27YZT2D1	824	132			
		MacAdam 3step	SPHWWAHDNB27YZT3D1					
5000		MacAdam 3step	SPHWWAHDNB27YZR3E4	787	126			
			SPHWWAHDNB27YZR3D1	827	133			

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC009D Gen1	80+	2700	MacAdam 2step	SPHWAHDNC25YZW2H1	1209	129	270mA 34.6V
			MacAdam 3step	SPHWAHDNC25YZW3H1			
			MacAdam 2step	SPHWAHDNC25YZW2D1	1270	136	
			MacAdam 3step	SPHWAHDNC25YZW3D1			
		3000	MacAdam 2step	SPHWAHDNC25YZV2H2	1278	137	
			MacAdam 3step	SPHWAHDNC25YZV3H2			
			MacAdam 2step	SPHWAHDNC25YZV2D1	1342	144	
			MacAdam 3step	SPHWAHDNC25YZV3D1			
		3500	MacAdam 2step	SPHWAHDNC25YZU2H2	1315	141	
			MacAdam 3step	SPHWAHDNC25YZU3H2			
			MacAdam 2step	SPHWAHDNC25YZU2D1	1381	148	
			MacAdam 3step	SPHWAHDNC25YZU3D1			
		4000	MacAdam 2step	SPHWAHDNC25Yzt2H2	1347	144	
			MacAdam 3step	SPHWAHDNC25Yzt3H2			
			MacAdam 2step	SPHWAHDNC25Yzt2D1	1414	151	
			MacAdam 3step	SPHWAHDNC25Yzt3D1			
		5000	MacAdam 3step	SPHWAHDNC25YzR3H2	1357	145	
				SPHWAHDNC25YzR3D1	1425	153	
		5700	MacAdam 3step	SPHWAHDNC25YzQ3H2	1357	145	
				SPHWAHDNC25YzQ3D1	1425	153	
		6500	MacAdam 3step	SPHWAHDNC25YzP3H2	1341	144	
				SPHWAHDNC25YzP3D1	1408	151	
	90+	2700	MacAdam 2step	SPHWAHDNC27YZW2G8	1038	111	
			MacAdam 3step	SPHWAHDNC27YZW3G8			
			MacAdam 2step	SPHWAHDNC27YZW2D1	1090	117	
			MacAdam 3step	SPHWAHDNC27YZW3D1			
		3000	MacAdam 2step	SPHWAHDNC27YZV2H0	1087	116	
			MacAdam 3step	SPHWAHDNC27YZV3H0			
			MacAdam 2step	SPHWAHDNC27YZV2D1	1141	122	
			MacAdam 3step	SPHWAHDNC27YZV3D1			
		3500	MacAdam 2step	SPHWAHDNC27YZU2H0	1122	120	
			MacAdam 3step	SPHWAHDNC27YZU3H0			
MacAdam 2step			SPHWAHDNC27YZU2D1	1178	126		
MacAdam 3step			SPHWAHDNC27YZU3D1				
4000		MacAdam 2step	SPHWAHDNC27Yzt2H0	1147	123		
		MacAdam 3step	SPHWAHDNC27Yzt3H0				
		MacAdam 2step	SPHWAHDNC27Yzt2D1	1204	129		
		MacAdam 3step	SPHWAHDNC27Yzt3D1				
5000		MacAdam 3step	SPHWAHDNC27YzR3H1	1152	123		
			SPHWAHDNC27YzR3D1	1210	130		

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC013D Gen 1	80+	2700	MacAdam 2step	SPHWAHDND25YZW2H5	1589	128	360mA 34.6V	
			MacAdam 3step	SPHWAHDND25YZW3H5				
			MacAdam 2step	SPHWAHDND25YZW2D1	1669	134		
			MacAdam 3step	SPHWAHDND25YZW3D1				
		3000	MacAdam 2step	SPHWAHDND25YZV2H5	1673	134		
			MacAdam 3step	SPHWAHDND25YZV3H5				
			MacAdam 2step	SPHWAHDND25YZV2D1	1757	141		
			MacAdam 3step	SPHWAHDND25YZV3D1				
		3500	MacAdam 2step	SPHWAHDND25YZU2H6	1725	138		
			MacAdam 3step	SPHWAHDND25YZU3H6				
			MacAdam 2step	SPHWAHDND25YZU2D1	1812	145		
			MacAdam 3step	SPHWAHDND25YZU3D1				
		4000	MacAdam 2step	SPHWAHDND25Yzt2H6	1757	141		
			MacAdam 3step	SPHWAHDND25Yzt3H6				
			MacAdam 2step	SPHWAHDND25Yzt2D1	1844	148		
			MacAdam 3step	SPHWAHDND25Yzt3D1				
		5000	MacAdam 3step	SPHWAHDND25YzR3H6	1772	142		
				SPHWAHDND25YzR3D1	1861	149		
		5700	MacAdam 3step	SPHWAHDND25YzQ3H6	1772	142		
				SPHWAHDND25YzQ3D1	1861	149		
		6500	MacAdam 3step	SPHWAHDND25YzP3H6	1746	140		
				SPHWAHDND25YzP3D1	1834	147		
	90+	2700	MacAdam 2step	SPHWAHDND27YZW2H2	1359	109		
			MacAdam 3step	SPHWAHDND27YZW3H2				
			MacAdam 2step	SPHWAHDND27YZW2D1	1427	115		
			MacAdam 3step	SPHWAHDND27YZW3D2				
			3000	MacAdam 2step	SPHWAHDND27YZV2H3	1423		114
				MacAdam 3step	SPHWAHDND27YZV3H3			
				MacAdam 2step	SPHWAHDND27YZV2D1	1494		120
				MacAdam 3step	SPHWAHDND27YZV3D1			
		3500	MacAdam 2step	SPHWAHDND27YZU2H4	1473	118		
			MacAdam 3step	SPHWAHDND27YZU3H4				
MacAdam 2step			SPHWAHDND27YZU2D1	1547	124			
MacAdam 3step			SPHWAHDND27YZU3D1					
4000		MacAdam 2step	SPHWAHDND27Yzt2H4	1505	121			
		MacAdam 3step	SPHWAHDND27Yzt3H4					
		MacAdam 2step	SPHWAHDND27Yzt2D1	1580	127			
		MacAdam 3step	SPHWAHDND27Yzt3D1					
5000		MacAdam 3step	SPHWAHDND27YzR3H4	1508	121			
			SPHWAHDND27YzR3D1	1584	127			

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC016D Gen 1	80+	2700	MacAdam 2step	SPHWAHDNE25YZW2H9	2065	133	450mA 34.6V	
			MacAdam 3step	SPHWAHDNE25YZW3H9				
			MacAdam 2step	SPHWAHDNE25YZW2D1	2169	139		
			MacAdam 3step	SPHWAHDNE25YZW3D1				
		3000	MacAdam 2step	SPHWAHDNE25YZV2J0	2182	140		
			MacAdam 3step	SPHWAHDNE25YZV3J0				
			MacAdam 2step	SPHWAHDNE25YZV2D1	2291	147		
			MacAdam 3step	SPHWAHDNE25YZV3D1				
		3500	MacAdam 2step	SPHWAHDNE25YZU2J1	2263	145		
			MacAdam 3step	SPHWAHDNE25YZU3J1				
			MacAdam 2step	SPHWAHDNE25YZU2D1	2376	153		
			MacAdam 3step	SPHWAHDNE25YZU3D1				
		4000	MacAdam 2step	SPHWAHDNE25Yzt2J1	2304	148		
			MacAdam 3step	SPHWAHDNE25Yzt3J1				
			MacAdam 2step	SPHWAHDNE25Yzt2D1	2419	155		
			MacAdam 3step	SPHWAHDNE25Yzt3D1				
		5000	MacAdam 3step	SPHWAHDNE25YzR3J2	2324	149		
				SPHWAHDNE25YzR3D1	2440	157		
		5700	MacAdam 3step	SPHWAHDNE25YzQ3J2	2324	149		
				SPHWAHDNE25YzQ3D1	2440	157		
		6500	MacAdam 3step	SPHWAHDNE25YzP3J1	2304	148		
				SPHWAHDNE25YzP3D1	2419	155		
	90+	2700	MacAdam 2step	SPHWAHDNE27YZW2H6	1771	114		
			MacAdam 3step	SPHWAHDNE27YZW3H6				
			MacAdam 2step	SPHWAHDNE27YZW2D1	1860	119		
			MacAdam 3step	SPHWAHDNE27YZW3D1				
			3000	MacAdam 2step	SPHWAHDNE27YZV2H7	1877		121
				MacAdam 3step	SPHWAHDNE27YZV3H7			
				MacAdam 2step	SPHWAHDNE27YZV2D1	1970		127
				MacAdam 3step	SPHWAHDNE27YZV3D1			
		3500	MacAdam 2step	SPHWAHDNE27YZU2H8	1932	124		
			MacAdam 3step	SPHWAHDNE27YZU3H8				
MacAdam 2step			SPHWAHDNE27YZU2D1	2029	130			
MacAdam 3step			SPHWAHDNE27YZU3D1					
4000		MacAdam 2step	SPHWAHDNE27Yzt2H8	1971	127			
		MacAdam 3step	SPHWAHDNE27Yzt3H8					
		MacAdam 2step	SPHWAHDNE27Yzt2D1	2069	133			
		MacAdam 3step	SPHWAHDNE27Yzt3D1					
5000		MacAdam 3step	SPHWAHDNE27YzR3H8	1989	128			
			SPHWAHDNE27YzR3D1	2089	134			

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC019D Gen 1	80+	2700	MacAdam 2step	SPHWAHDNF25YZW2J3	2458	132	540mA 34.6V	
			MacAdam 3step	SPHWAHDNF25YZW3J3				
			MacAdam 2step	SPHWAHDNF25YZW2D1	2581	138		
			MacAdam 3step	SPHWAHDNF25YZW3D1				
		3000	MacAdam 2step	SPHWAHDNF25YZV24	2592	139		
			MacAdam 3step	SPHWAHDNF25YZV3J4				
			MacAdam 2step	SPHWAHDNF25YZV2D1	2722	146		
			MacAdam 3step	SPHWAHDNF25YZV3D1				
		3500	MacAdam 2step	SPHWAHDNF25YZU25	2672	143		
			MacAdam 3step	SPHWAHDNF25YZU3J5				
			MacAdam 2step	SPHWAHDNF25YZU2D1	2805	150		
			MacAdam 3step	SPHWAHDNF25YZU3D1				
		4000	MacAdam 2step	SPHWAHDNF25YZT25	2726	146		
			MacAdam 3step	SPHWAHDNF25YZT3J5				
			MacAdam 2step	SPHWAHDNF25YZT2D1	2863	153		
			MacAdam 3step	SPHWAHDNF25YZT3D1				
		5000	MacAdam 3step	SPHWAHDNF25YZR3J6	2756	148		
				SPHWAHDNF25YZR3D1	2894	155		
		5700	MacAdam 3step	SPHWAHDNF25YZQ3J6	2756	148		
				SPHWAHDNF25YZQ3D1	2894	155		
		6500	MacAdam 3step	SPHWAHDNF25YZP3J5	2726	146		
				SPHWAHDNF25YZP3D1	2863	153		
	90+	2700	MacAdam 2step	SPHWAHDNF27YZW2H9	2104	113		
			MacAdam 3step	SPHWAHDNF27YZW3H9				
			MacAdam 2step	SPHWAHDNF27YZW2D1	2210	118		
			MacAdam 3step	SPHWAHDNF27YZW3D1				
			3000	MacAdam 2step	SPHWAHDNF27YZV2J0	2207		118
				MacAdam 3step	SPHWAHDNF27YZV3J0			
				MacAdam 2step	SPHWAHDNF27YZV2D1	2317		124
				MacAdam 3step	SPHWAHDNF27YZV3D1			
		3500	MacAdam 2step	SPHWAHDNF27YZU2J1	2287	122		
			MacAdam 3step	SPHWAHDNF27YZU3J1				
MacAdam 2step			SPHWAHDNF27YZU2D1	2402	129			
MacAdam 3step			SPHWAHDNF27YZU3D1					
4000		MacAdam 2step	SPHWAHDNF27YZT2J2	2337	125			
		MacAdam 3step	SPHWAHDNF27YZT3J2					
		MacAdam 2step	SPHWAHDNF27YZT2D1	2454	131			
		MacAdam 3step	SPHWAHDNF27YZT3D1					
5000		MacAdam 3step	SPHWAHDNG27YZR3J8	2339	125			
			SPHWAHDNG27YZR3D1	2456	131			

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC026D Gen 1	80+	2700	MacAdam 2step	SPHWAHDNK25YZW2M7	3225	129	720mA 34.6V	
			MacAdam 3step	SPHWAHDNK25YZW3M7				
			MacAdam 2step	SPHWAHDNK25YZW2D1	3386	136		
			MacAdam 3step	SPHWAHDNK25YZW3D1				
		3000	MacAdam 2step	SPHWAHDNK25YZV2M9	3389	136		
			MacAdam 3step	SPHWAHDNK25YZV3M9				
			MacAdam 2step	SPHWAHDNK25YZV2D1	3558	143		
			MacAdam 3step	SPHWAHDNK25YZV3D1				
		3500	MacAdam 2step	SPHWAHDNK25YZU2N1	3488	140		
			MacAdam 3step	SPHWAHDNK25YZU3N1				
			MacAdam 2step	SPHWAHDNK25YZU2D1	3663	147		
			MacAdam 3step	SPHWAHDNK25YZU3D1				
		4000	MacAdam 2step	SPHWAHDNK25YZT2N2	3558	143		
			MacAdam 3step	SPHWAHDNK25YZT3N2				
			MacAdam 2step	SPHWAHDNK25YZT2D1	3736	150		
			MacAdam 3step	SPHWAHDNK25YZT3D1				
		5000	MacAdam 3step	SPHWAHDNK25YZR3N2	3588	144		
				SPHWAHDNK25YZR3D1	3767	151		
		5700	MacAdam 3step	SPHWAHDNK25YZQ3N3	3588	144		
				SPHWAHDNK25YZQ3D1	3767	151		
		6500	MacAdam 3step	SPHWAHDNK25YZP3N2	3558	143		
				SPHWAHDNK25YZP3D1	3736	150		
	90+	2700	MacAdam 2step	SPHWAHDNK27YZW2M0	2760	111		
			MacAdam 3step	SPHWAHDNK27YZW3M0				
			MacAdam 2step	SPHWAHDNK27YZW2D1	2898	116		
			MacAdam 3step	SPHWAHDNK27YZW3D1				
			3000	MacAdam 2step	SPHWAHDNK27YZV2M2	2903		117
				MacAdam 3step	SPHWAHDNK27YZV3M2			
				MacAdam 2step	SPHWAHDNK27YZV2D1	3048		122
				MacAdam 3step	SPHWAHDNK27YZV3D1			
		3500	MacAdam 2step	SPHWAHDNK27YZU2M4	2990	120		
			MacAdam 3step	SPHWAHDNK27YZU3M4				
			MacAdam 2step	SPHWAHDNK27YZU2D1	3139	126		
			MacAdam 3step	SPHWAHDNK27YZU3D1				
		4000	MacAdam 2step	SPHWAHDNK27YZT2M5	3051	122		
			MacAdam 3step	SPHWAHDNK27YZT3M5				
MacAdam 2step			SPHWAHDNK27YZT2D1	3204	129			
MacAdam 3step			SPHWAHDNK27YZT3D1					
5000		MacAdam 3step	SPHWAHDNK27YZR3M5	3077	124			
			SPHWAHDNK27YZR3D1	3231	130			

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)	
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)		
 LC040D Gen1	80+	2700	MacAdam 2step	SPHWAHDNG25YZW2K0	4996	134	1080mA 34.6V	
			MacAdam 3step	SPHWAHDNG25YZW3K0				
			MacAdam 2step	SPHWAHDNG25YZW2D1	5246	140		
			MacAdam 3step	SPHWAHDNG25YZW3D1				
		3000	MacAdam 2step	SPHWAHDNG25YZV2K2	5257	141		
			MacAdam 3step	SPHWAHDNG25YZV3K2				
			MacAdam 2step	SPHWAHDNG25YZV2D1	5520	148		
			MacAdam 3step	SPHWAHDNG25YZV3D1				
		3500	MacAdam 2step	SPHWAHDNG25YZU2K3	5418	145		
			MacAdam 3step	SPHWAHDNG25YZU3K3				
			MacAdam 2step	SPHWAHDNG25YZU2D1	5689	152		
			MacAdam 3step	SPHWAHDNG25YZU3D1				
		4000	MacAdam 2step	SPHWAHDNG25YZT2K3	5535	148		
			MacAdam 3step	SPHWAHDNG25YZT3K3				
			MacAdam 2step	SPHWAHDNG25YZT2D1	5812	156		
			MacAdam 3step	SPHWAHDNG25YZT3D1				
		5000	MacAdam 3step	SPHWAHDNG25YZR3K4	5561	149		
				SPHWAHDNG25YZR3D1	5839	156		
		5700	MacAdam 3step	SPHWAHDNG25YZQ3K4	5588	150		
				SPHWAHDNG25YZQ3D1	5868	157		
		6500	MacAdam 3step	SPHWAHDNG25YZP3K3	5528	148		
				SPHWAHDNG25YZP3D1	5804	155		
	90+	2700	MacAdam 2step	SPHWAHDNG27YZW2J6	4283	115		
			MacAdam 3step	SPHWAHDNG27YZW3J6				
			MacAdam 2step	SPHWAHDNG27YZW2D1	4497	120		
			MacAdam 3step	SPHWAHDNG27YZW3D1				
			3000	MacAdam 2step	SPHWAHDNG27YZV2J7	4525		121
				MacAdam 3step	SPHWAHDNG27YZV3J7			
				MacAdam 2step	SPHWAHDNG27YZV2D1	4751		127
				MacAdam 3step	SPHWAHDNG27YZV3D1			
		3500	MacAdam 2step	SPHWAHDNG27YZU2J8	4640	124		
			MacAdam 3step	SPHWAHDNG27YZU3J8				
MacAdam 2step			SPHWAHDNG27YZU2D1	4872	130			
MacAdam 3step			SPHWAHDNG27YZU3D1					
4000		MacAdam 2step	SPHWAHDNG27YZT2J8	4742	127			
		MacAdam 3step	SPHWAHDNG27YZT3J8					
		MacAdam 2step	SPHWAHDNG27YZT2D1	4979	133			
		MacAdam 3step	SPHWAHDNG27YZT3D1					
5000		MacAdam 3step	SPHWAHDNG27YZR3J8	4796	128			
			SPHWAHDNG27YZR3D1	5036	135			

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC060D Gen 1	70+	3000	MacAdam 3step	SPHWAHDNL231ZV3Q8	8284	148	1080mA 52V
		4000	MacAdam 3step	SPHWAHDNL231ZT3R1	8550	152	
		5000	MacAdam 3step	SPHWAHDNL231ZR3R2	8683	155	
	80+	2700	MacAdam 2step	SPHWAHDNL251ZW2P9	7277	130	
			MacAdam 3step	SPHWAHDNL251ZW3P9			
		3000	MacAdam 2step	SPHWAHDNL251ZV2Q3	7667	137	
			MacAdam 3step	SPHWAHDNL251ZV3Q3			
		3500	MacAdam 2step	SPHWAHDNL251ZU2Q5	7904	141	
			MacAdam 3step	SPHWAHDNL251ZU3Q5			
		4000	MacAdam 2step	SPHWAHDNL251ZT2Q6	8075	144	
			MacAdam 3step	SPHWAHDNL251ZT3Q6			
		5000	MacAdam 3step	SPHWAHDNL251ZR3Q7	8113	144	
		5700	MacAdam 3step	SPHWAHDNL251ZQ3Q7	8151	145	
		6500	MacAdam 3step	SPHWAHDNL271ZP3Q6	8066	144	

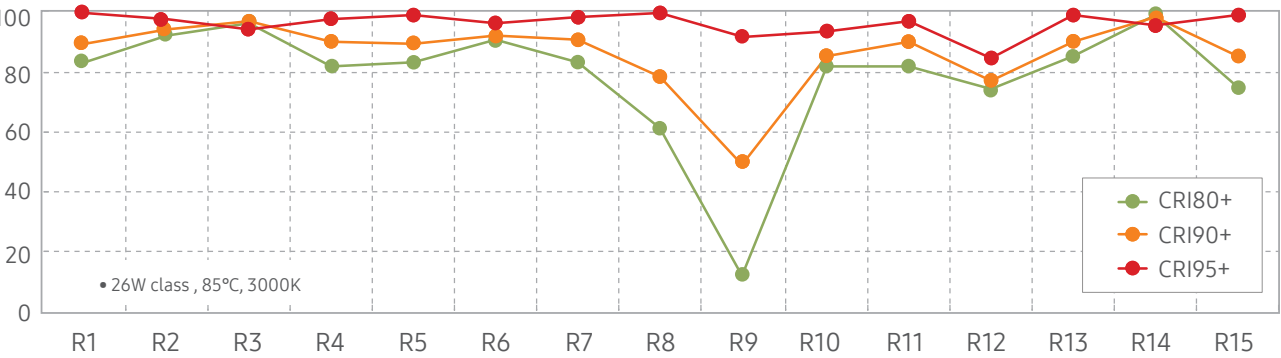
 LC080D Gen 1	70+	3000	MacAdam 3step	SPHWAHDNM231ZV3U5	12084	143	1620mA 52V
		4000	MacAdam 3step	SPHWAHDNM231ZT3U9	12483	148	
		5000	MacAdam 3step	SPHWAHDNM231ZR3V0	12673	150	
	80+	2700	MacAdam 2step	SPHWAHDNM251ZW2T1	10612	126	
			MacAdam 3step	SPHWAHDNM251ZW3T1			
		3000	MacAdam 2step	SPHWAHDNM251ZV2T6	11201	133	
			MacAdam 3step	SPHWAHDNM251ZV3T6			
		3500	MacAdam 2step	SPHWAHDNM251ZU2T9	11533	137	
			MacAdam 3step	SPHWAHDNM251ZU3T9			
		4000	MacAdam 2step	SPHWAHDNM251ZT2U2	11780	140	
			MacAdam 3step	SPHWAHDNM251ZT3U2			
		5000	MacAdam 3step	SPHWAHDNM251ZR3U2	11847	141	
		5700	MacAdam 3step	SPHWAHDNM251ZQ3V0	11904	141	
		6500	MacAdam 3step	SPHWAHDNM251ZP3V5	11723	139	

D-series Premium color - High CRI

- Full line-up for various applications: ultra high CRI for spot & down lights
- Excellent color index distribution

T _j =85°C	LC013D	LC016D	LC019D	LC026D	LC033D	LC040D
LES	9.8mm	14.5mm				22 mm
Typical	34.6 V					
	12.5W (360mA)	15.6W (450mA)	18.7W (540mA)	24.9W (720mA)	31.1W (900mA)	37.4W (1080mA)
Max.	34.5W (920mA)	43.1W (1150mA)	51.8W (1380mA)	69.0W (1840mA)	86.2W (2300mA)	103.5W (2760mA)
Size	13.5mm x 13.5mm	19mm x 19mm				28mm x 28mm

Ultra High CRI (Ra 95+): Typ. R9 ≅ 90 (2700K~4000K)



Color Variation

Product	High CRI 95+				
	2700K	3000K	3500K	4000K	5000K
LC013D	o	o	o	o	o
LC016D	o	o	o	o	o
LC019D	o	o	o	o	o
LC026D	o	o	o	o	o
LC033D	o	o	o	o	o
LC040D	o	o	o	o	o
MacAdam 2-Step	o	o	o	o	o
MacAdam 3-Step	o	o	o	o	o

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC013D Premium color	95+	2700	MacAdam 2step	SPHWAHDND28YZW2D2	1223	98	360mA 34.6V
			MacAdam 3step	SPHWAHDND28YZW3D2			
		3000	MacAdam 2step	SPHWAHDND28YZV2D2	1285	103	
			MacAdam 3step	SPHWAHDND28YZV3D2			
		3500	MacAdam 2step	SPHWAHDND28YZU2D2	1337	107	
			MacAdam 3step	SPHWAHDND28YZU3D2			
		4000	MacAdam 2step	SPHWAHDND28YZT2D2	1379	111	
			MacAdam 3step	SPHWAHDND28YZT3D2			
5000	MacAdam 3step	SPHWAHDND28YZR3D2	1390	112			
 LC016D Premium color	95+	2700	MacAdam 2step	SPHWAHDNE28YZW2D2	1575	101	450mA 34.6V
			MacAdam 3step	SPHWAHDNE28YZW3D2			
		3000	MacAdam 2step	SPHWAHDNE28YZV2D2	1655	106	
			MacAdam 3step	SPHWAHDNE28YZV3D2			
		3500	MacAdam 2step	SPHWAHDNE28YZU2D2	1722	111	
			MacAdam 3step	SPHWAHDNE28YZU3D2			
		4000	MacAdam 2step	SPHWAHDNE28YZT2D2	1776	114	
			MacAdam 3step	SPHWAHDNE28YZT3D2			
5000	MacAdam 3step	SPHWAHDNE28YZR3D2	1791	115			
 LC019D Premium color	95+	2700	MacAdam 2step	SPHWAHDNF28YZW2D2	1880	101	540mA 34.6V
			MacAdam 3step	SPHWAHDNF28YZW3D2			
		3000	MacAdam 2step	SPHWAHDNF28YZV2D2	1976	106	
			MacAdam 3step	SPHWAHDNF28YZV3D2			
		3500	MacAdam 2step	SPHWAHDNF28YZU2D2	2056	110	
			MacAdam 3step	SPHWAHDNF28YZU3D2			
		4000	MacAdam 2step	SPHWAHDNF28YZT2D2	2121	114	
			MacAdam 3step	SPHWAHDNF28YZT3D2			
5000	MacAdam 3step	SPHWAHDNF28YZR3D2	2138	114			
 LC026D Premium color	95+	2700	MacAdam 2step	SPHWAHDNG28YZW2D2	2470	99	720mA 34.6V
			MacAdam 3step	SPHWAHDNG28YZW3D2			
		3000	MacAdam 2step	SPHWAHDNG28YZV2D2	2596	104	
			MacAdam 3step	SPHWAHDNG28YZV3D2			
		3500	MacAdam 2step	SPHWAHDNG28YZU2D2	2701	108	
			MacAdam 3step	SPHWAHDNG28YZU3D2			
		4000	MacAdam 2step	SPHWAHDNG28YZT2D2	2786	112	
			MacAdam 3step	SPHWAHDNG28YZT3D2			
5000	MacAdam 3step	SPHWAHDNG28YZR3D2	2809	113			
 LC033D Premium color	95+	2700	MacAdam 2step	SPHWAHDNH28YZW2D2	3057	98	900mA 34.6V
			MacAdam 3step	SPHWAHDNH28YZW3D2			
		3000	MacAdam 2step	SPHWAHDNH28YZV2D2	3212	103	
			MacAdam 3step	SPHWAHDNH28YZV3D2			
		3500	MacAdam 2step	SPHWAHDNH28YZU2D2	3343	107	
			MacAdam 3step	SPHWAHDNH28YZU3D2			
		4000	MacAdam 2step	SPHWAHDNH28YZT2D2	3447	111	
			MacAdam 3step	SPHWAHDNH28YZT3D2			
5000	MacAdam 3step	SPHWAHDNH28YZR3D2	3476	112			
 LC040D Premium color	95+	2700	MacAdam 2step	SPHWAHDNK28YZW2D2	3760	101	1080mA 34.6V
			MacAdam 3step	SPHWAHDNK28YZW3D2			
		3000	MacAdam 2step	SPHWAHDNK28YZV2D2	3952	106	
			MacAdam 3step	SPHWAHDNK28YZV3D2			
		3500	MacAdam 2step	SPHWAHDNK28YZU2D2	4113	110	
			MacAdam 3step	SPHWAHDNK28YZU3D2			
		4000	MacAdam 2step	SPHWAHDNK28YZT2D2	4241	113	
			MacAdam 3step	SPHWAHDNK28YZT3D2			
5000	MacAdam 3step	SPHWAHDNK28YZR3D2	4277	114			

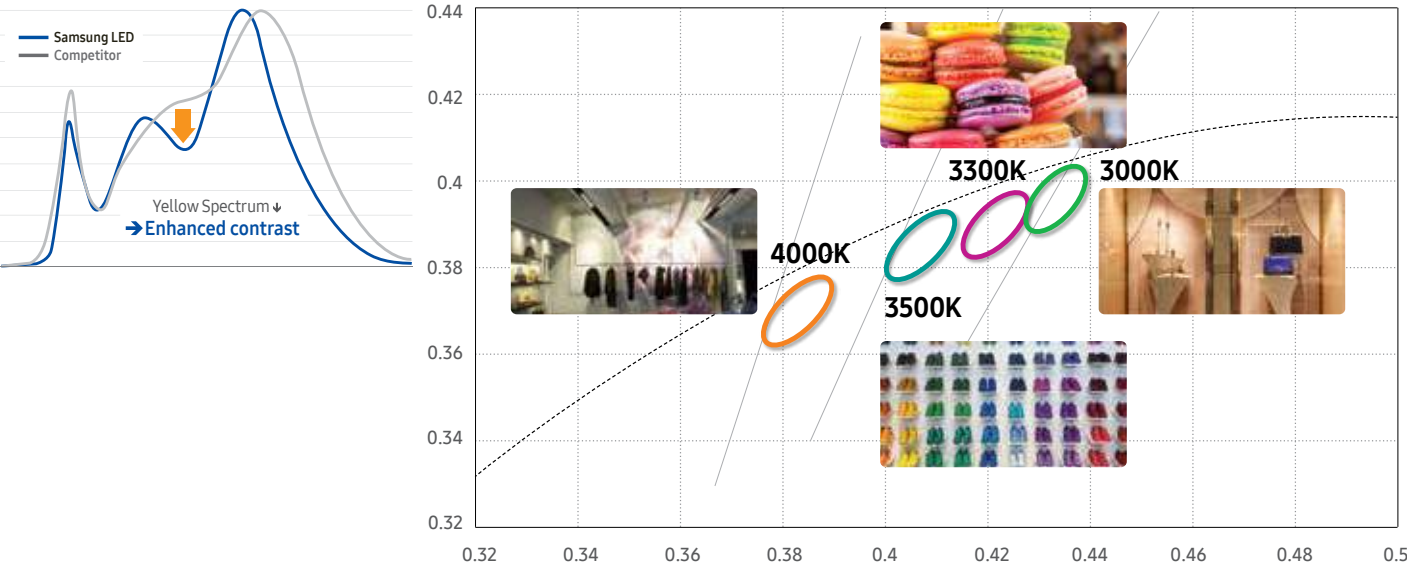
D-series Premium color - Vivid color

- Vivid white without yellowish tint
- Attractive color for human eye perception
- The chromaticity of vivid color COB - Below B.B.L

T _J =85°C	LC013D	LC016D	LC019D	LC026D	LC033D	LC040D
LES	9.8mm	14.5mm				22 mm
Typical	34.6 V					
	12.5W (360mA)	15.6W (450mA)	18.7W (540mA)	24.9W (720mA)	31.1W (900mA)	37.4W (1080mA)
Max.	34.5W (920mA)	43.1W (1150mA)	51.8W (1380mA)	69.0W (1840mA)	86.2W (2300mA)	103.5W (2760mA)
Size	13.5mm x 13.5mm	19mm x 19mm				28mm x 28mm

Vivid spectrum pursues high contrast for showcases

Below BBL : 3000K, 3300K, 3500K, 4000K



Color Variation

Product	Vivid (Below B.B.L.)			
	3000K	3300K	3500K	4000K
LC013D	○	○	○	○
LC016D	○	○	○	○
LC019D	○	○	○	○
LC026D	○	○	○	○
LC033D	○	○	○	○
MacAdam 2-Step	○	○	○	○
MacAdam 3-Step	○	○	○	○

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC013D Premium color	Vivid color	3000 (Below BBL)	MacAdam 2step	SPHWAHDND2VYZV2D2	1334	107	360mA 34.6V
			MacAdam 3step	SPHWAHDND2VYZVVD2			
		3300 (Below BBL)	MacAdam 2step	SPHWAHDND2VYZA2D2	1394	112	
			MacAdam 3step	SPHWAHDND2VYZAVD2			
		3500 (Below BBL)	MacAdam 2step	SPHWAHDND2VYZU2D2	1433	115	
			MacAdam 3step	SPHWAHDND2VYZUVD2			
4000 (Below BBL)	MacAdam 2step	SPHWAHDND2VYZT2D2	1533	123			
	MacAdam 3step	SPHWAHDND2VYZTVD2					
 LC016D Premium color	Vivid color	3000 (Below BBL)	MacAdam 2step	SPHWAHDNE2VYZ2VD2	1745	112	450mA 34.6V
			MacAdam 3step	SPHWAHDNE2VYZVVD2			
		3300 (Below BBL)	MacAdam 2step	SPHWAHDNE2VYZA2D2	1823	117	
			MacAdam 3step	SPHWAHDNE2VYZAVD2			
		3500 (Below BBL)	MacAdam 2step	SPHWAHDNE2VYZU2D2	1875	120	
			MacAdam 3step	SPHWAHDNE2VYZUVD2			
4000 (Below BBL)	MacAdam 2step	SPHWAHDNE2VYZT2D2	2005	129			
	MacAdam 3step	SPHWAHDNE2VYZTVD2					
 LC019D Premium color	Vivid color	3000 (Below BBL)	MacAdam 2step	SPHWAHDNF2VYZV2D2	2068	111	540mA 34.6V
			MacAdam 3step	SPHWAHDNF2VYZVVD2			
		3300 (Below BBL)	MacAdam 2step	SPHWAHDNF2VYZA2D2	2160	116	
			MacAdam 3step	SPHWAHDNF2VYZAVD2			
		3500 (Below BBL)	MacAdam 2step	SPHWAHDNF2VYZU2D2	2222	119	
			MacAdam 3step	SPHWAHDNF2VYZUVD2			
4000 (Below BBL)	MacAdam 2step	SPHWAHDNF2VYZT2D2	2376	127			
	MacAdam 3step	SPHWAHDNF2VYZTVD2					
 LC026D Premium color	Vivid color	3000 (Below BBL)	MacAdam 2step	SPHWAHDNG2VYZV2D2	2706	109	720mA 34.6V
			MacAdam 3step	SPHWAHDNG2VYZVVD2			
		3300 (Below BBL)	MacAdam 2step	SPHWAHDNG2VYZA2D2	2827	113	
			MacAdam 3step	SPHWAHDNG2VYZAVD2			
		3500 (Below BBL)	MacAdam 2step	SPHWAHDNG2VYZU2D2	2907	117	
			MacAdam 3step	SPHWAHDNG2VYZUVD2			
4000 (Below BBL)	MacAdam 2step	SPHWAHDNG2VYZT2D2	3108	125			
	MacAdam 3step	SPHWAHDNG2VYZTVD2					
 LC033D Premium color	Vivid color	3000 (Below BBL)	MacAdam 2step	SPHWAHDNH2VYZV2D2	3339	107	900mA 34.6V
			MacAdam 3step	SPHWAHDNH2VYZVVD2			
		3300 (Below BBL)	MacAdam 2step	SPHWAHDNH2VYZA2D2	3488	112	
			MacAdam 3step	SPHWAHDNH2VYZAVD2			
		3500 (Below BBL)	MacAdam 2step	SPHWAHDNH2VYZU2D2	3588	115	
			MacAdam 3step	SPHWAHDNH2VYZUVD2			
4000 (Below BBL)	MacAdam 2step	SPHWAHDNH2VYZT2D2	3836	123			
	MacAdam 3step	SPHWAHDNH2VYZTVD2					
 LC040D Premium color	Vivid color	3000 (Below BBL)	MacAdam 2step	SPHWAHDNK2VYZV2D2	4150	111	1080mA 34.6V
			MacAdam 3step	SPHWAHDNK2VYZVVD2			
		3300 (Below BBL)	MacAdam 2step	SPHWAHDNK2VYZA2D2	4335	116	
			MacAdam 3step	SPHWAHDNK2VYZAVD2			
		3500 (Below BBL)	MacAdam 2step	SPHWAHDNK2VYZU2D2	4459	119	
			MacAdam 3step	SPHWAHDNK2VYZUVD2			
4000 (Below BBL)	MacAdam 2step	SPHWAHDNK2VYZT2D2	4768	128			
	MacAdam 3step	SPHWAHDNK2VYZTVD2					

D-series Premium color - Special color

- Fashion light effect: Clean, Elegant, Vivid
- Meat light effect: Fresh (Red), Delicious (Red), Vivid
- Vegetable light effect: Fresh, Delicious, Vivid

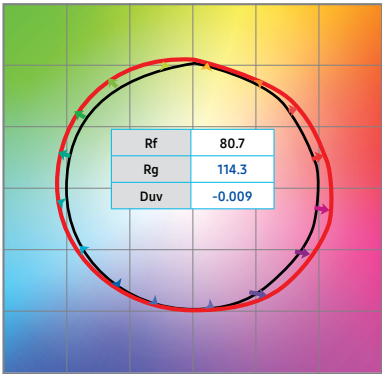
T _J =85°C	LC013D	LC016D	LC019D	LC026D	LC033D
LES	9.8mm	14.5mm			
Typical	34.6 V				
	12.5W (360mA)	15.6W (450mA)	18.7W (540mA)	24.9W (720mA)	31.1W (900mA)
Max.	34.5W (920mA)	43.1W (1150mA)	51.8W (1380mA)	69.0W (1840mA)	86.2W (2300mA)
Size	13.5mm x 13.5mm	19mm x 19mm			

Make the colors of objects more whiter and vivid

Fashion



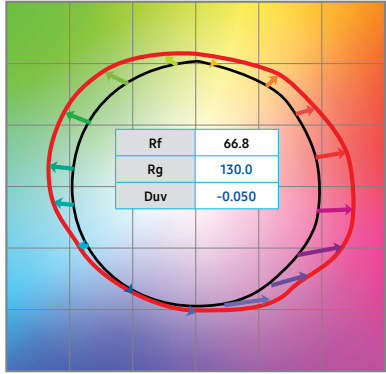
Whiteness, All saturated color↑
Clean, Elegant, Vividness↑



Meat



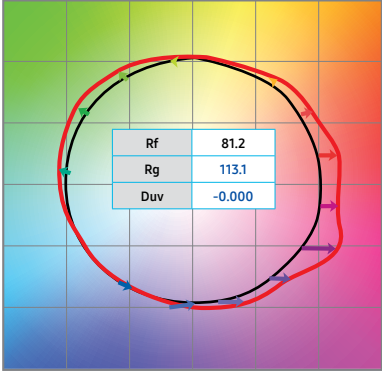
Whiteness, Red saturated color↑
Fresh, Delicious, Vividness↑



Vegetable



Whiteness, Green & Red saturated color↑
Fresh, Delicious, Vividness↑



Color Variation

Product	Fashion	Meat	Vegetable
LC013D	○	○	○
LC016D	○	○	○
LC019D	○	○	○
LC026D	○	○	○
LC033D	○	○	○
MacAdam 2-Step	○	○	○

Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC013D Premium color	Special color	Fashion	MacAdam 2step	SPHWAHDND2VYZUSD2	1085	1142	360mA 34.6V
		Meat	MacAdam 2step	SPHWAHDND2VYZTSD2	868	914	
		Vegetable	MacAdam 2step	SPHWAHDND2VYZRSD2	1128	1188	
 LC016D Premium color	Special color	Fashion	MacAdam 2step	SPHWAHDNE2VYZUSD2	1411	1485	450mA 34.6V
		Meat	MacAdam 2step	SPHWAHDNE2VYZTSD2	1129	1188	
		Vegetable	MacAdam 2step	SPHWAHDNE2VYZRSD2	1467	1544	
 LC019D Premium color	Special color	Fashion	MacAdam 2step	SPHWAHDNF2VYZUSD2	1677	1765	540mA 34.6V
		Meat	MacAdam 2step	SPHWAHDNF2VYZTSD2	1341	1412	
		Vegetable	MacAdam 2step	SPHWAHDNF2VYZRSD2	1744	1835	
 LC026D Premium color	Special color	Fashion	MacAdam 2step	SPHWAHDNG2VYZUSD2	2192	2307	720mA 34.6V
		Meat	MacAdam 2step	SPHWAHDNG2VYZTSD2	1753	1845	
		Vegetable	MacAdam 2step	SPHWAHDNG2VYZRSD2	2279	2399	
 LC033D Premium color	Special color	Fashion	MacAdam 2step	SPHWAHDNH2VYZUSD2	2712	2855	900mA 34.6V
		Meat	MacAdam 2step	SPHWAHDNH2VYZTSD2	2170	2284	
		Vegetable	MacAdam 2step	SPHWAHDNH2VYZRSD2	2820	2969	

C-series features a small LES (Light Emitting Surface) compared to D-series while providing a higher CBCP (Center Beam Candle Power) than its previous generation.



High lumen density COB

Best fit into spot and down lighting applications which requires a narrow beam



Standard COB



Small LES COB

A wide range of wattage and CRI options

Platform	Model	Wattage				Key Features
		10W (LC010C)	20W (LC020C)	30W (LC030C)	40W (LC040C)	
	LES -In (LES-Out) Package	6.0mm (7.5mm) 13.5mm x13.5mm	8.5mm (10.0mm) 19.0mm x19.0mm	11.5mm (13.5mm) 19.0mm x19.0mm		
C-series Gen 2	CRI 80+					• Providing full options of CCT & CRI • Best efficacy • Low thermal resistance by metal substrate • Easy holder design by same outline as D-series
	CRI 90+					

C-series Gen 2 [Small LES COB]

- Adapted new flip chip technology
- Low droop characteristic by current & thermal
- High reliability
- Completed 6,000 hours of LM-80 testing

T _j =85°C	LC010C Gen 2	LC020C Gen 2	LC030C Gen 2	LC040C Gen 2
LES	6.0mm	8.5mm	11.5mm	
Typical	35.0V			
	10.5W (300mA)	21.0W (600mA)	31.5W (900mA)	36.8W (1050mA)
Max.	13.8W (380mA)	34.0W (920mA)	51.1W (1380mA)	59.5W (1610mA)
Size	13.5mm x 13.5mm	19mm x 19mm	19mm x 19mm	19mm x 19mm

Color Variation

Product	2700K	3000K	3500K	4000K	5000K
LC010C Gen 2	○	○	○	○	○
LC020C Gen 2	○	○	○	○	○
LC030C Gen 2	○	○	○	○	○
LC040C Gen 2	○	○	○	○	○
MacAdam 3-Step	○	○	○	○	○

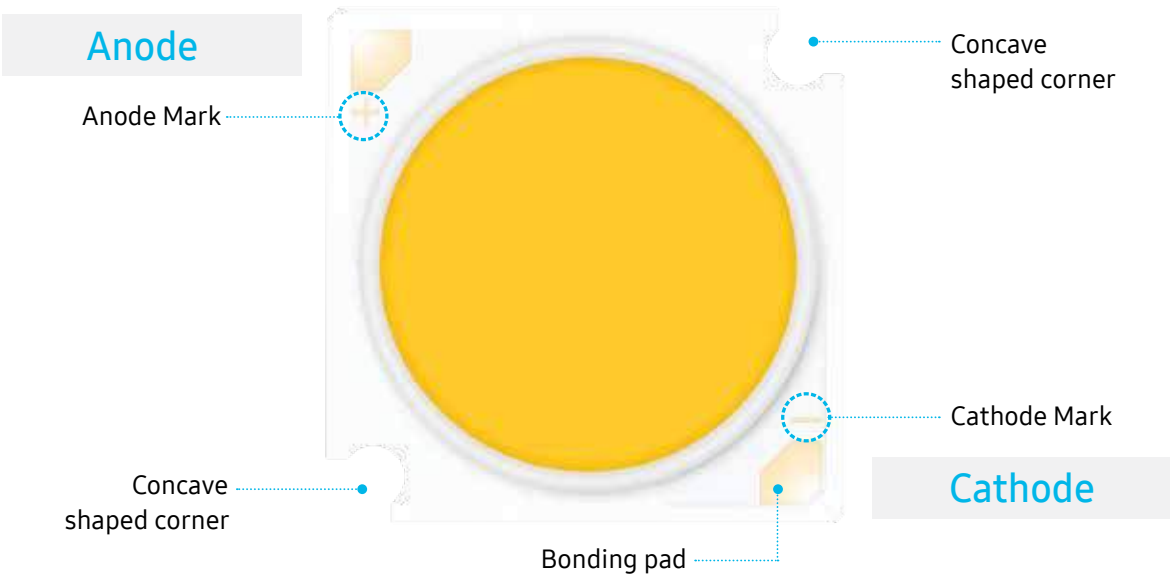
Specification

Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC010C Gen 2	80+	2700K	MacAdam 3step	SPHWAHDNC25YZW3C2	1212	115	300mA 35.0V
		3000K	MacAdam 3step	SPHWAHDNC25YZV3C2	1274	121	
		3500K	MacAdam 3step	SPHWAHDNC25YZU3C2	1311	125	
		4000K	MacAdam 3step	SPHWAHDNC25YZT3C2	1337	127	
		5000K	MacAdam 3step	SPHWAHDNC25YZR3C2	1348	128	
	90+	2700K	MacAdam 3step	SPHWAHDNC27YZW3C2	1037	99	
		3000K	MacAdam 3step	SPHWAHDNC27YZV3C2	1091	104	
		3500K	MacAdam 3step	SPHWAHDNC27YZU3C2	1123	107	
		4000K	MacAdam 3step	SPHWAHDNC27YZT3C2	1147	109	
		5000K	MacAdam 3step	SPHWAHDNC27YZR3C2	1156	110	

Specification

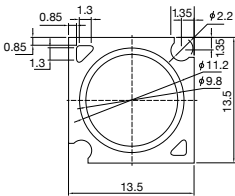
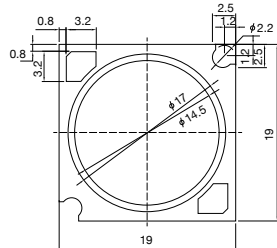
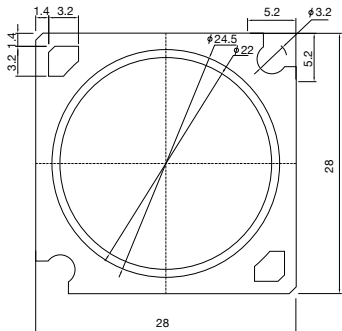
Product	CRI	CCT (K)	Color rank	Part Number	T _j = 85°C		I _F (mA) V _F (V)
					Luminous Flux Typ. (lm)	Luminous Efficacy Typ. (lm/W)	
 LC020C Gen 2	80+	2700K	MacAdam 3step	SPHWAHDNF25YZW3C2	2485	118	600mA 35.0V
		3000K	MacAdam 3step	SPHWAHDNF25YZV3C2	2625	125	
		3500K	MacAdam 3step	SPHWAHDNF25YZU3C2	2688	128	
		4000K	MacAdam 3step	SPHWAHDNF25YZT3C2	2742	131	
		5000K	MacAdam 3step	SPHWAHDNF25YZR3C2	2765	132	
	90+	2700K	MacAdam 3step	SPHWAHDNF27YZW3C2	2127	101	
		3000K	MacAdam 3step	SPHWAHDNF27YZV3C2	2237	107	
		3500K	MacAdam 3step	SPHWAHDNF27YZU3C2	2304	110	
		4000K	MacAdam 3step	SPHWAHDNF27YZT3C2	2351	112	
		5000K	MacAdam 3step	SPHWAHDNF27YZR3C2	2372	113	
 LC030C Gen 2	80+	2700K	MacAdam 3step	SPHWAHDNH25YZW3C2	3765	120	900mA 35.0V
		3000K	MacAdam 3step	SPHWAHDNH25YZV3C2	3956	126	
		3500K	MacAdam 3step	SPHWAHDNH25YZU3C2	4072	129	
		4000K	MacAdam 3step	SPHWAHDNH25YZT3C2	4154	132	
		5000K	MacAdam 3step	SPHWAHDNH25YZR3C2	4188	133	
	90+	2700K	MacAdam 3step	SPHWAHDNH27YZW3C2	3222	102	
		3000K	MacAdam 3step	SPHWAHDNH27YZV3C2	3389	108	
		3500K	MacAdam 3step	SPHWAHDNH27YZU3C2	3490	111	
		4000K	MacAdam 3step	SPHWAHDNH27YZT3C2	3562	113	
		5000K	MacAdam 3step	SPHWAHDNH27YZR3C2	3592	114	
 LC040C Gen 2	80+	2700K	MacAdam 3step	SPHWAHDNK25YZW3C2	4305	117	1050mA 35.0V
		3000K	MacAdam 3step	SPHWAHDNK25YZV3C2	4524	123	
		3500K	MacAdam 3step	SPHWAHDNK25YZU3C2	4657	127	
		4000K	MacAdam 3step	SPHWAHDNK25YZT3C2	4750	129	
		5000K	MacAdam 3step	SPHWAHDNK25YZR3C2	4790	130	
	90+	2700K	MacAdam 3step	SPHWAHDNK27YZW3C2	3684	100	
		3000K	MacAdam 3step	SPHWAHDNK27YZV3C2	3875	105	
		3500K	MacAdam 3step	SPHWAHDNK27YZU3C2	3991	109	
		4000K	MacAdam 3step	SPHWAHDNK27YZT3C2	4073	111	
		5000K	MacAdam 3step	SPHWAHDNK27YZR3C2	4108	112	

Product Details

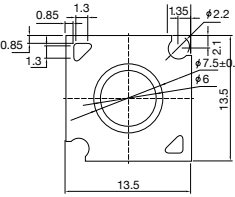
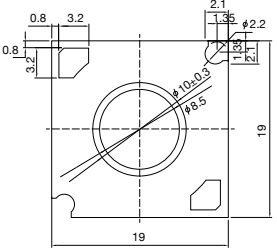
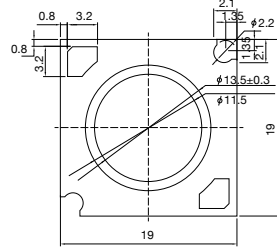


Product Dimension

D-series

LC003D / LC006D / LC009D / LC013D	LC016D / LC019D / LC026D / LC033D	LC040D / LC060D / LC080D
		

C-series

LC010C Gen 2	LC020C Gen 2	LC030C Gen 2 / LC040C Gen 2
		

Simple Assembly for Your Lighting System



Field	Partners	Solutions
Optic	Alux Luxar, Wide germ Khatod, LEDil, Caclo, etc	Reflector (possible to be mounted on holders), Lens
Holder	Molex, TE, BJB, Bender Wirth, Stucchi, etc	Holder for fixation, Electrical connection
Thermal	Laired, TTM, Bergquist, etc	Thermal Interface Material (TIM) (Thermal Grease, thermal pad)
	Nuventix (Uniquest), etc	Heat sink

For up-to-dated list, visit www.samsungled.com

Certification Support Program

To provide more valuable services for your successful business

Program Overview

Pre-Certification Test Support

Product structure, test and review by Samsung.
Samsung is an accredited partner of UL, VDE & KOLAS

Certification Accreditations Support

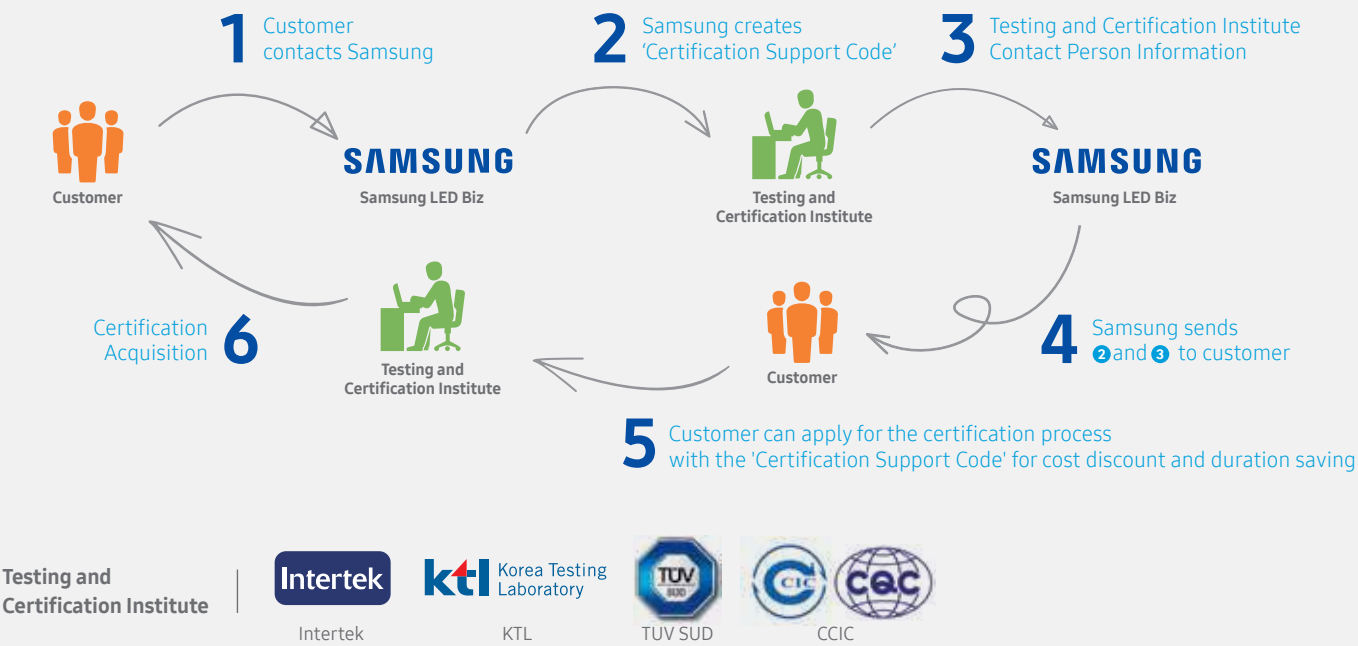
- Customer support for **Cost and Test Period Saving for the EU, US & ASIA certification**
- Global certification program roll out soon to be available

Customer Benefit

Certification		ETL, Energy Star, DLC ¹⁾ , FCC, LM 79		KS/High Efficiency	PSE	S-Mark	CE, ErP, ENEC, ENEC+, EU Eco-Label, GS mark		CCC/CQC	
Customer Location		US	Korea/China	-			EU/US/Asia	China	Korea	China
Cost Discount	Testing	-20%	-30%	-30%	-30%	-30%	-20%	-30%	-20%	-30%
	Handling			-						
Test Period Savings		-30 ~ -50%	-30 ~ -50%	-20 ~ -30%			-20 ~ -30%	-20 ~ -30%	-20 ~ -30%	-20 ~ -30%
Company		Intertek		KTL (Korea Testing Laboratory)			TUV SUD		CCIC	
Branch		North America, China, Hong Kong, Korea		Korea, China			North America, Germany, China, Hong Kong, Singapore, Taiwan, Korea		Korea, China	

1) Energy Star, DLC's duration is not included for Lumen Maintenance test duration.
2) Discount rate is based on the standard price of Companies.

Process



Testing and Certification Institute

Intertek

KTL

TUV SUD

CCIC

Contact us : www.samsung.com/global/business/led/contact-us

