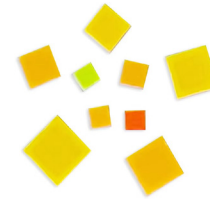


# CSP Products

## Bridgelux Differentiation

- 25+ years of driving LED industry transformation
- Vertical integration across chip, phosphor and package
- Broad product portfolio including CSPs, SMDs, COBs and modules
- Human centric and dynamic lighting technology leader



## Features

- Surface emitting flip chip; Phosphor layer on top of chip
- High-Power and high lumen density in ultra-compact package
- High thermal conductivity package
- 2, 3, and 5 SDCM binning options



## Benefits

- Highly flexible for customized high density clustering
- Small LES customized color spectrum feasible - color mixing before secondary optics, reduce secondary optics size & costs
- Create differentiated products and deliver lower system cost
- Excellent L90 lifetimes across the entire portfolio

## Applications

- Narrow beam spot lighting
- Tunable CCT cluster
- Shop lighting
- Studio lighting
- Architectural lighting
- Special spectrum lighting
- Spotlight, Downlight, Linear, Area, Floor/wall,
- High Bay, Low Bay, Street, Tunnel
- Outdoor and Indoor
- Commercial, Residential, Industrial

Product	CCT Range	CRI Options	Drive Current (mA)	Voltage (V)	Power (W)	CRI	3000K		4000K		LES (mm)	Datasheet
							Typical Flux (lm)	Typical Efficacy (lm/W)	Typical Flux (lm)	Typical Efficacy (lm/W)		
CSP 1111 (K-series)	1800K - 6500K	80, 90, 95	50	2.7	0.1	90	22	161	24	178	1.12	<a href="#">DS959</a>
			150	2.9	0.4		59	136	65	151		
			350	3.1	1.1		117	106	129	117		
			500	3.3	1.7		152	92	168	101		
CSP 1313 (K-series)	1800K - 6500K	70, 80, 90, 95	50	2.7	0.1	90	21	159	23	174	1.3	<a href="#">DS960</a>
			150	2.8	0.4		61	144	66	157		
			350	3.0	1.1		125	119	137	130		
			700	3.3	2.3		213	92	232	101		
CSP 1919 (K-series)	2700K - 6500K	70, 80, 90, 95	50	2.6	0.1	80	26	195	28	213	1.8	<a href="#">DS961</a>
			350	2.9	1.0		167	164	182	179		
			500	3.0	1.5		229	153	250	167		
			1200	3.4	4.1		471	116	514	127		
CSP 2424 (K-series)	1800K - 6500K	70, 80, 90, 95	50	2.6	0.1	80	32	245	29	221	2.35	<a href="#">DS962</a>
			350	2.9	1.0		211	212	191	192		
			700	3.0	2.1		390	185	353	168		
			1400	3.3	4.7		692	148	626	134		
CSP 2727 (K-series)	2200K - 6500K	70, 80, 90	350	2.7	1.0	80	179	188	192	202	2.7	<a href="#">DS967</a>
			700	2.8	2.0		343	176	368	188		
			1500	3.0	4.4		677	153	727	164		
			2000	3.0	6.1		863	142	926	153		

All measurements are at T<sub>sp</sub> = 25°C. Additional electrical configurations and product options are available, please consult your Bridgelux sales representative.