

Ergon® COB

Ver. HE

Flip-chip COB, The Ultimate Reliability

Ergon COB Series, a new generation of high-power COB, brings industry-leading performance and reliability to various general lighting applications. Built on the **World's first Silver-free Flip-chip** technology. Ergon COB is able to deliver 15% more efficiency with improved thermal dissipation and longer durability. Ergon COB is free from wire bonding that can be easily broken upon electrical shock so as to provide excellent mechanical and electrical performance. All Ergon COB Series provide various options for size, power, color and 2nd optic solutions such as reflector and lens. It's time to incorporate Ergon COB into your lighting designs.

Features

- Wide Power Selection : 7W~70W
- High thermal dissipation for extreme reliability
- Available in ANSI color bin and 3-step MacAdam Ellipse
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- High Circular Uniformity

Applications

- Down Light
- Spot Light
- Bulb
- Flood Light
- High Bay Light
- Street Light



Electro-Optical Characteristics

	Model No	Power [W]	SIZE [mm]	Rth [°C/W]	CRI [Ra]	Input Voltage [V]	CCT [K]	Lumen Output [lm]	Efficacy [lm/W]	Forward Current [mA]
1507HE	ERC1507S827HE	7.5	15.85x15.85x2.0 (LES 8.9)	1.6	80+	37.5	2700	800	107	200/380
	ERC1507S830HE						3000	850	113	
	ERC1507S835HE						3500	875	117	
	ERC1507S840HE						4000	900	120	
	ERC1507S850HE						5000	930	124	
1812HE	ERC1812S827HE	11.8	17.85x17.85x2.0 (LES 12.0)	0.9	80+	37.0	2700	1,300	110	320/600
	ERC1812S830HE						3000	1,400	119	
	ERC1812S835HE						3500	1,450	123	
	ERC1812S840HE						4000	1,490	126	
	ERC1812S850HE						5000	1,510	128	
1820HE	ERC1820S827HE	20.4	17.85x17.85x2.0 (LES 12.0)	0.9	80+	37.0	2700	2,080	102	550/1,100
	ERC1820S830HE						3000	2,240	110	
	ERC1820S835HE						3500	2,330	114	
	ERC1820S840HE						4000	2,385	117	
	ERC1820S850HE						5000	2,420	119	
2530HE	ERC2530S827HE	29.6	23.85x23.85x2.0 (LES 19.0)	0.4	80+	37.0	2700	3,200	108	800/1,600
	ERC2530S830HE						3000	3,450	117	
	ERC2530S835HE						3500	3,590	121	
	ERC2530S840HE						4000	3,675	124	
	ERC2530S850HE						5000	3,730	126	
2540HE	ERC2540S827HE	40.7	23.85x23.85x2.0 (LES 19.0)	0.3	80+	37.0	2700	4,360	107	1,100/2,100
	ERC2540S830HE						3000	4,700	115	
	ERC2540S835HE						3500	4,890	120	
	ERC2540S840HE						4000	5,000	123	
	ERC2540S850HE						5000	5,085	125	
3050HE	ERC3050S827HE	51.8	27.35x27.35x2.0 (LES 23.0)	0.2	80+	37.0	2700	5,710	110	1,400/2,500
	ERC3050S830HE						3000	6,150	119	
	ERC3050S835HE						3500	6,400	124	
	ERC3050S840HE						4000	6,550	126	
	ERC3050S850HE						5000	6,650	128	
3070HE	ERC3070S827HE	70.3	27.35x27.35x2.0 (LES 23.0)	0.2	80+	37.0	2700	7,425	106	1,900/3,800
	ERC3070S830HE						3000	8,000	114	
	ERC3070S835HE						3500	8,320	118	
	ERC3070S840HE						4000	8,520	121	
	ERC3070S850HE						5000	8,655	123	

- Note:
- 1. () LES Size (Light Emitting Surface)
 - 2. Typical Luminous Flux value / Ta=85 °C
 - 3. Accuracy : CRI (±3), lm (±10%), , Dimension (±2mm)
 - 4. Specifications can be changed without advance notice.
 - 5. Installation shall follow cautions and guidance that Lumens provides.

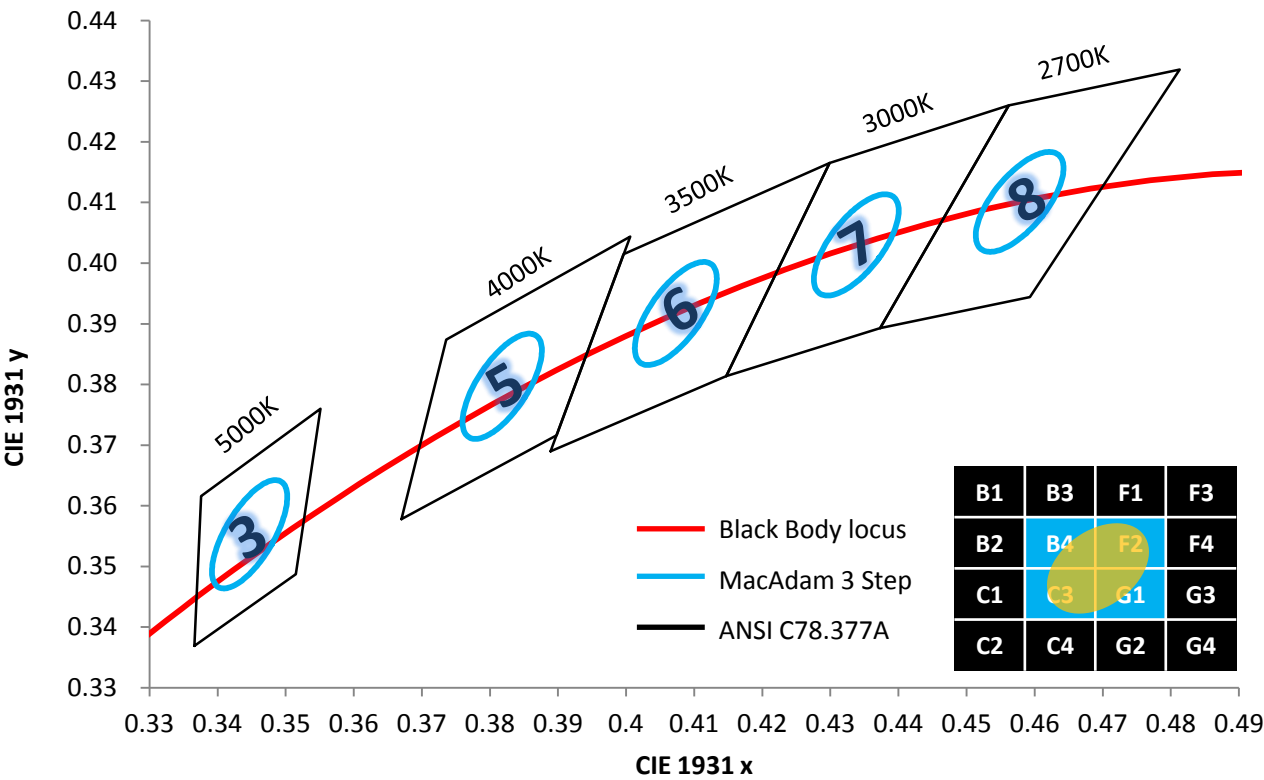
Electro-Optical Characteristics



	Model No	Power [W]	SIZE [mm]	Rth [°C/W]	CRI [Ra]	Input Voltage [V]	CCT [K]	Lumen Output [lm]	Efficacy [lm/W]	Forward Current [mA]
1507HE	ERC1507S927HE	7.5	15.85x15.85x2.0 (LES 8.9)	1.6	90+	37.5	2700	670	89	200/380
	ERC1507S930HE						3000	695	93	
	ERC1507S935HE						3500	720	96	
	ERC1507S940HE						4000	760	101	
	ERC1507S950HE						5000	790	105	
1812HE	ERC1812S927HE	11.8	17.85x17.85x2.0 (LES 12.0)	0.9	90+	37.0	2700	1,095	93	320/600
	ERC1812S930HE						3000	1,140	97	
	ERC1812S935HE						3500	1,180	100	
1820HE	ERC1820S927HE	20.4	17.85x17.85x2.0 (LES 12.0)	0.9	90+	37.0	2700	1,755	86	550/1,100
	ERC1820S930HE						3000	1,830	90	
	ERC1820S935HE						3500	1,895	93	
2530HE	ERC2530S927HE	29.6	23.85x23.85x2.0 (LES 19.0)	0.4	90+	37.0	2700	2,700	91	800/1,600
	ERC2530S930HE						3000	2,815	95	
	ERC2530S935HE						3500	2,910	98	
2540HE	ERC2540S927HE	40.7	23.85x23.85x2.0 (LES 19.0)	0.3	90+	37.0	2700	3,675	90	1,100/2,100
	ERC2540S930HE						3000	3,830	94	
	ERC2540S935HE						3500	3,965	97	
3050HE	ERC3050S927HE	51.8	27.35x27.35x2.0 (LES 23.0)	0.2	90+	37.0	2700	4,815	93	1,400/2,500
	ERC3050S930HE						3000	5,015	97	
	ERC3050S935HE						3500	5,190	100	
3070HE	ERC3070S927HE	70.3	27.35x27.35x2.0 (LES 23.0)	0.2	90+	37.0	2700	6,260	89	1,900/3,800
	ERC3070S930HE						3000	6,520	93	
	ERC3070S935HE						3500	6,750	96	

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Chromaticity Binning



Mechanical Dimension

