

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 80 or 90
- 3、Light efficiency: 150lm/W, 165lm/W, 175lm/W(@3000K 80Ra)
- 4、Work with isolated driver with a voltage range of 36V to 38V, compatible with international standard sizes.
- 5、SDCM<2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



High efficiency COB-EIY Series 150lm/W

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		Efficiency (lm/W)	CRI (Ra)
							Min	Max		
	1201-EIY	BH1375-0112J5W*G-EIYV3	5	φ6	130	200	32	38	142	≥80
		BH1375-0112J5W*H-EIYV3							120	≥90
	1202-EIY	BH1375-0212J7W*G-EIYV3	7	φ6	200	400	32	38	142	≥80
		BH1375-0212J7W*H-EIYV3							120	≥90
	1203-EIY	BH1311-0312J12W*G-EIYV3	12	φ9	350	600	32	38	145	≥80
		BH1311-0312J12W*H-EIYV3							123	≥90
	1204-EIY	BH1311-0412J15W*G-EIYV3	15	φ9	400	800	32	38	145	≥80
		BH1311-0412J15W*H-EIYV3							123	≥90
	1205-EIY	BH1917-0512J20W*G-EIYV3	20	φ15	550	1000	32	38	150	≥80
		BH1917-0512J20W*H-EIYV3							130	≥90
	1206-EIY	BH1917-0612J25W*G-EIYV3	25	φ15	700	1200	32	38	150	≥80
		BH1917-0612J25W*H-EIYV3							129	≥90
	1208-EIY	BH1917-0812J35W*G-EIYV3	35	φ15	950	1600	32	38	150	≥80
		BH1917-0812J35W*H-EIYV3							129	≥90
	1206-EIY	BH1816-0612J25W*G-EIYV3	25	φ14	700	1200	32	38	150	≥80
		BH1816-0612J25W*H-EIYV3							128	≥90
	1207-EIY	BH1816-0712J30W*G-EIYV3	30	φ14	800	1400	32	38	150	≥80
	1208-EIY	BH1816-0812J35W*G-EIYV3	35	φ14	950	1600	32	38	150	≥80
		BH1816-0812J35W*H-EIYV3							127	≥90

High efficiency Series

Standard Edition /Ultimate Edition/High Density Edition /Constant Voltage Edition/

High efficiency Series-Standard Edition

High efficiency COB-EIK Series 165lm/W

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		Efficiency (lm/W)	CRI (Ra)
							Min	Max		
	1201-EIK	BH1375-0112J3W*G-EIKV4	3	Φ6	90	230	32	38	161	≥80
		BH1375-0112J3W*H-EIKV4							137	≥90
	1202-EIK	BH1375-0212J6W*G-EIKV4	6	Φ6	180	460	32	38	161	≥80
		BH1375-0212J6W*H-EIKV4							137	≥90
	1203-EIK	BH1311-0312J9W*G-EIKV4	9	Φ9	270	690	32	38	161	≥80
		BH1311-0312J9W*H-EIKV4							137	≥90
	1204-EIK	BH1311-0412J12W*G-EIKV4	12	Φ9	360	920	32	38	161	≥80
		BH1311-0412J12W*H-EIKV4							137	≥90
	1205-EIK	BH1917-0512J15W*G-EIKV4	15	Φ15	450	1150	32	38	165	≥80
		BH1917-0512J15W*H-EIKV4							140	≥90
	1206-EIK	BH1917-0612J18W*G-EIKV4	18	Φ15	540	1380	32	38	166	≥80
		BH1917-0612J18W*H-EIKV4							141	≥90
	1208-EIK	BH1917-0812J24W*G-EIKV4	24	Φ15	720	1840	32	38	166	≥80
		BH1917-0812J24W*H-EIKV4							141	≥90
	1210-EIK	BH1917-1012J30W*G-EIKV4	30	Φ15	900	2300	32	38	162	≥80
		BH1917-1012J30W*H-EIKV4							138	≥90
	1311-EIK	BH1917-1113J24W*G-EIKV4	24	Φ15	600	2530	32	38	175	≥80
		BH1917-1113J24W*H-EIKV4							150	≥90

High efficiency COB-EIS Series 175lm/W

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		Efficiency (lm/W)	CRI (Ra)
							Min	Max		
	1202-EIS	BH1308-0212J6W*G-EISV4	6	Φ6	180	500	32	38	170	≥80
		BH1308-0212J6W*H-EISV4							144	≥90
	1204-EIS	BH1311-0412J12W*G-EISV4	12	Φ9	360	1000	32	38	170	≥80
		BH1311-0412J12W*H-EISV4							144	≥90
	1206-EIS	BH1917-0612J18W*G-EISV4	18	Φ15	540	1500	32	38	175	≥80
		BH1917-0612J18W*H-EISV4							149	≥90
	1208-EIS	BH1917-0812J24W*G-EISV4	24	Φ15	720	2000	32	38	175	≥80
		BH1917-0812J24W*H-EISV4							149	≥90
	1210-EIS	BH1917-1012J30W*G-EISV4	30	Φ15	900	2500	32	38	170	≥80
		BH1917-1012J30W*H-EISV4							144	≥90
	1214-EIS	BH2321-1412J42W*G-EISV4	42	Φ19	1260	3500	32	38	175	≥80
		BH2321-1412J42W*H-EISV4							149	≥90

High efficiency Series- Ultimate Edition

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 90
- 3、Light efficiency: 200lm/W(@3000K 90Ra)
- 4、Work with isolated driver with a voltage range of 36V to 38V, compatible with international standard sizes.
- 5、SDCM <2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



Super high efficiency COB-EIK90 Series 200lm/W

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		CCT (K)	Efficiency (lm/W)	CRI (Ra)
							Min	Max			
	1202-EIK90	SH1375-0212J4W**H-EIKV4G	4	Φ6	120	300	32	38	2700	173	≥90
									3000	182	
	1204-EIK90	SH1311-0412J8W**H-EIKV4G	8	Φ9	240	600	32	38	2700	173	
									3000	182	≥90
	1205-EIK90	SH1311-0512J10W**H-EIKV4G	10	Φ9	300	750	32	38	2700	173	
									3000	182	≥90
	1209-EIK90	SH1814-0912J18W***H-EIKV4G	18	Φ12	540	1350	32	38	2700	176	≥90
									3000	185	
	1208-EIK90	SH1917-0812J16W***H-EIKV4G	16	Φ15	480	1200	32	38	2700	176	≥90
									3000	185	
	1210-EIK90	SH1917-1012J20W***H-EIKV4G	20	Φ15	600	1500	32	38	2700	176	≥90
									3000	185	
	1313-EIK90	SH1917-1313J28W***H-EIKV4G	28	Φ15	780	1950	32	38	2700	176	≥90
									3000	185	
									4000	194	

High efficiency Series-High Density COB

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 90
- 3、Ultra high power density, high central light intensity
- 4、Ultra-small substrate size, enabling small angle optical distribution with in 10°
- 5、SDCM <2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



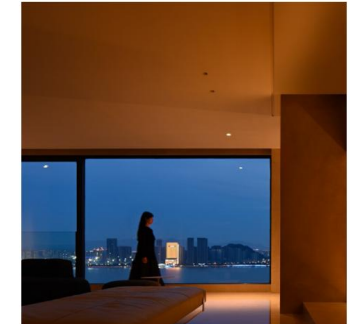
High efficiency Series-Constant Voltage COB

Product Features:

- 1、Complied with ANSI standard, LM-80 certified
- 2、CRI > 90
- 3、Light efficiency: 130lm/W(@3000K 90Ra)
- 4、Constant voltage input, automatic constant current, a single power supply to drive multiple sets of parallel lamps
- 5、SDCM <2, high light color consistency

Applications:

Widely used for hotel clubs, museums, clothing brand stores, chain supermarkets and high-end home lighting and other places



High Efficiency COB-EIHD Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		CCT (K)	Efficiency (lm/W)	CRI (Ra)
							Min	Max			
	0403-EIHD	BH1305-0304 J10W**H-EIL	10	φ3.5	300	300	34	42	2700	72	≥90
									3000	76	
									4000	79	
	0405-EIHD	BH1306-0504 J15W**H-EIL	15	φ4.6	400	500	34	42	2700	80	≥90
									3000	85	
									4000	90	
	1204-EIHD	BH1375-0412 J15W**H-EIV4	15	φ6.2	400	720	34	42	2700	110	≥90
									3000	115	
									4000	125	
	1205-EIHD	BH16105-0512 J25W**H-EIKV4	25	φ8.8	700	1150	32	38	2700	110	≥90
									3000	115	
									4000	125	

High efficiency COB-EIHC Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Voltage (V)		CCT(K)	Efficiency (lm/W)	CRI (Ra)
					Min	Max			
	0704-7WEIHC	HC1308-0407J7W**H-EIKV4Z	7	φ6	24	27	2700	105	≥90
							3000	110	
							4000	115	
	0704-9WEIHC	HC1308-0407J9W**H-EIKV4Z	9	φ6	24	27	2700	100	≥90
							3000	105	
							4000	110	
	0707-EIHC	HC1611-0707J12W**H-EIKV4Z	12	φ9	24	27	2700	110	≥90
							3000	115	
							4000	120	
	0708-EIHC	HC1611-0807J15W**H-EIKV4Z	15	φ9	24	27	2700	115	≥90
							3000	120	
							4000	125	
	1506-EIHC	HC1917-0615J18W**H-EIKV4	18	φ15	48	54	2700	120	≥90
							3000	125	
							4000	130	
	1508-EIHC	HC1917-0815J24W**H-EIKV4	24	φ15	48	54	2700	120	≥90
							3000	125	
							4000	130	
	1510-EIHC	HC1917-1015J30W**H-EIKV4	30	φ15	48	54	2700	120	≥90
							3000	125	
							4000	130	

Full spectrum Series

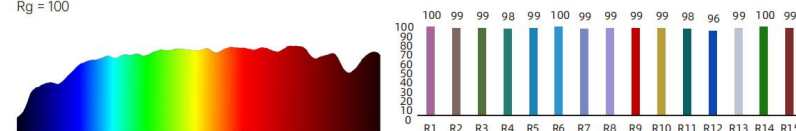
Ultimate Edition

Concept and Definition of Full Spectrum COB

- Excited by multi-wavelength blue LED chips, matching with phosphor, under the premise of completely no UV light, to simulate the full spectrum effect of halogen lamp, more fitting the solar spectrum;
- Achieve spectral saturation transition from blue light to yellow light, reducing the probability of green light spillover, more close to natural white light, good for a smoother full spectrum application;
- Supplementing for the lack of color performance from blue to green in traditional COB products can truly show the purity of the light color system represented by indigo blue and the natural purity of white.

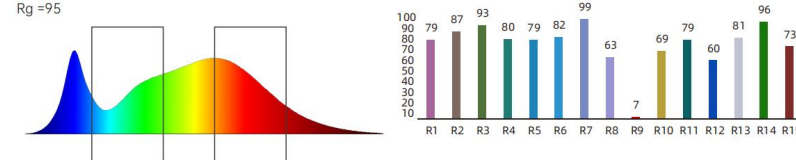
Sun

Rf = 100
Rg = 100



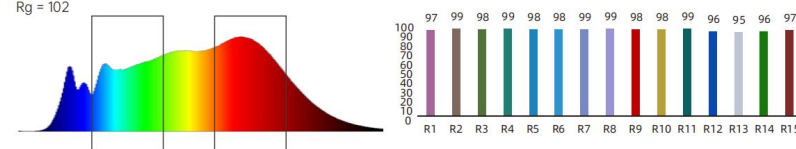
LED Standard LED

Rf = 81
Rg = 95



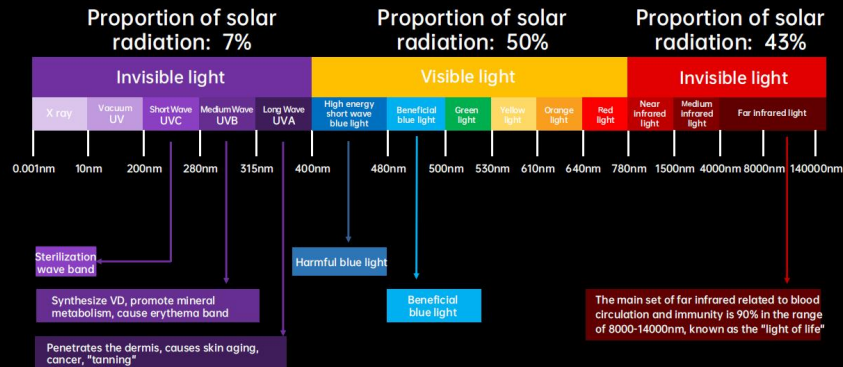
Evercore Full Spectrum COB

Rf = 96
Rg = 102



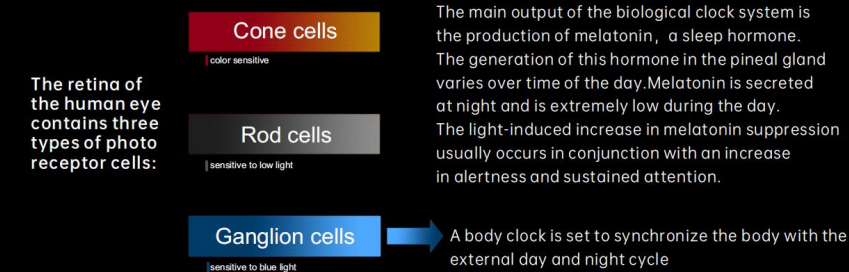
Human health

Wavelength classification



Light is an important factor for human health

Daylight is the most important "Giver of time" that controls human circadian rhythms. Light is an important factor for human health. The cold white wavelength in light will inhibit the secretion of melatonin.



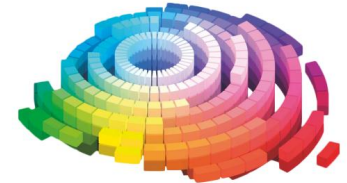
All living creatures have an "internal clock" called a circadian rhythm, so using the right light at the right time can affect everything from a person's sleep to how we feel and perform. That's why human centric lighting (HCL) is beneficial for schools, healthcare facilities, offices and industrial buildings.

Color performance - Redefining color quality

- The dual standards of CRI and GAI will more accurately and humanely describe light source quality by evaluating light quality based on naturalness, fidelity, saturation, and brightness, to ultimately achieve the most comfortable light.
- Color rendering is no longer evaluated by just one metric, but now by two more: Rf and Rg.

Rf fidelity

- It is used to indicate the similarity of each standard color under the test light source compared with the reference light source.
- (100 means exactly the same; 0 means very different).



Rg saturation

- It is used to indicate saturation changes of each standard color under the test light source compared with the reference light source. (100 means the saturation is the same; above 100 means the light source can increase the saturation of the color, below 100 means the color saturation is lower under the test light source).

#1	#2	#3	#4	#5	#6	#7	#8
CIE 1	CIE 2	CIE 3	CIE 4	CIE 5	CIE 6	CIE 7	CIE 8
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 9	CIE 10	CIE 11	CIE 12	CIE 13	CIE 14	CIE 15	CIE 16
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 17	CIE 18	CIE 19	CIE 20	CIE 21	CIE 22	CIE 23	CIE 24
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 25	CIE 26	CIE 27	CIE 28	CIE 29	CIE 30	CIE 31	CIE 32
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 33	CIE 34	CIE 35	CIE 36	CIE 37	CIE 38	CIE 39	CIE 40
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 41	CIE 42	CIE 43	CIE 44	CIE 45	CIE 46	CIE 47	CIE 48
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 49	CIE 50	CIE 51	CIE 52	CIE 53	CIE 54	CIE 55	CIE 56
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 57	CIE 58	CIE 59	CIE 60	CIE 61	CIE 62	CIE 63	CIE 64
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 65	CIE 66	CIE 67	CIE 68	CIE 69	CIE 70	CIE 71	CIE 72
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 73	CIE 74	CIE 75	CIE 76	CIE 77	CIE 78	CIE 79	CIE 80
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 81	CIE 82	CIE 83	CIE 84	CIE 85	CIE 86	CIE 87	CIE 88
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 89	CIE 90	CIE 91	CIE 92	CIE 93	CIE 94	CIE 95	CIE 96
Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H
CIE 97	CIE 98	CIE 99					
Type A	Type B	Type C					

- Compared with CRI which has only 15 standard colors, the TM-30-15 system uses 99 standard colors.
- These 99 standard colors are no longer Munsell color cards, but carefully selected from the colors of 105,000 objects which represent various common colors that can be often seen in life (from saturated to unsaturated, from light to dark)

Product Features:

- 1、Technology Application Specifications: Pc-Amber / De-Amber
- 2、Wavelength Bins : 590~595/600~605/590~605 nm
- 3、Power: 6-30 W
- 4、Comply with USA DLC V6.0 Standard

Applications:

Widely used for Human-Centric Lighting (HCL)
Ecological Lighting.



Amber Series

Product Picture	Product Code	Product Model	Power (W)	LES (mm)	Typ Current (mA)	Max Current (mA)	Voltage (V)		Wavelength (nm)	Efficiency (lm/W)	CRI (Ra)
							Min	Max			
	1202-EIAB	FH1375-0212 J6W10P-EIKV4	6	φ6.2	180	460	32	38	600-605nm	75	≥50
	1204-EIAB	FH1311-0412 J12W10P-EIKV4	12	φ9.1	360	920	32	38	600-605nm	76	≥50
	1208-EIAB	FH1917-0812 J24W10P-EIKV4	24	φ15.1	720	1840	32	38	600-605nm	76	≥50
	0803-EIAB	TD1375-0308 Z5W-EIY1	5	φ6.2	300	600	16	20	590-605nm	42	/
	0604-EIAB	TD1375-0604 Z5W-EIY1	5	φ6.2	540	1200	7	11	590-605nm	43	/
	0604-EIAB	TD1311-0604 Z8W-EIY1	8	φ9.1	900	1200	7	11	590-605nm	42	/
	1604-EIAB	TD1311-0416 Z8W-EIY1	8	φ9.1	250	800	32	38	590-605nm	45	/
	1608-EIAB	TD1917-0816 Z20W-EIY1	20	φ15.1	600	1600	32	38	590-605nm	46	/
	1202-EIAB	BK1308-0212 K6WYM-H-EIV4	6+6	φ6.6	160	250/400	32	38	590-605nm 3000K	40/90	/
	CX3535-EIAB	CX353511 CY59001-EI	1	φ3	350	1000	2	2.4	590-595nm	65	/

Amber Series

PC Amber/DE Amber