



Luminus Product Catalog

General Lighting

2022.V1

CONTACT US

Luminus Devices, Inc.

US Headquarters
1145 Sonora Ct.
Sunnyvale, CA 94086, USA
Tel: +1 (408) 708-7000
Fax: +1 (408) 245-2546
sales@luminus.com
www.luminus.com

Luminus Devices, Inc (Xiamen)

Operations Office
7th Floor, Building A1, No. 506-508,
Guojin Plaza, Qianpu Road, Xiamen, Fujian, China
Shunping Chen: +86-18620399565
Leon Li: +86-13860446602
Tel: +86-592-5500727
shunping.chen@luminus.com
leon.li@luminus.com



www.luminus.com

 **LUMINUS**
Improving Life with Photons™

Company Introduction

Improving Life with Photons

Luminus creates LEDs which are enabling customers to improve lives in many ways including many types of medical equipment, UV for disinfection, high color rendering white for healthy.

- Headquartered in Silicon Valley (Sunnyvale, CA, USA)
- Branches: Xiamen (China), Shenzhen(China), Hsinchu (Taiwan), Eindhoven (The Netherlands)
- Founded in 2002 to commercialize technology developed at M.I.T.
- Leadership in very-high-power density LEDs that enable exceptional focusing of light
- Broad range of white and monochromatic solutions for general illumination and specialty lighting markets
- Global applications support

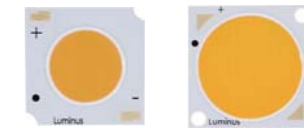
Specialty LEDs

- Solutions ranging from Ultra-Violet to Infrared with input powers from 1W to over 100W
- High-intensity specialty LED (up to 6A/mm²) replacing performance lamp technologies such as Xenon, Metal Halide
- Extensive offering for specialty lighting markets including:
 - Horticulture and Farming
 - Projection, Stage, Entertainment and Studio
 - Medical, Industrial
 - Non-visible: UV curing, Purification/Disinfection, Infra-Red



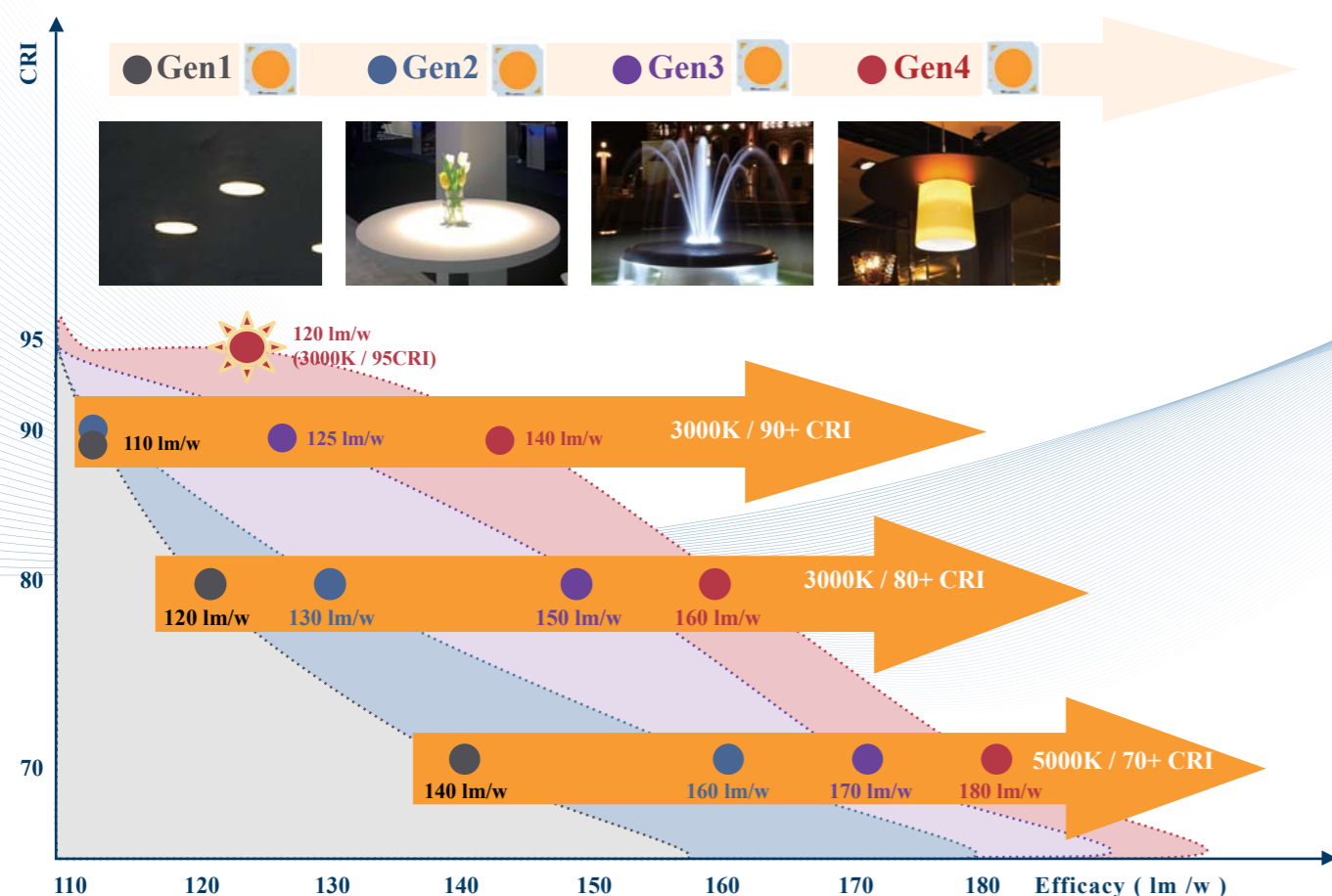
Illumination LEDs

- High quality of light and industry-leading efficacy engineered in Silicon Valley
- Widest range of COB sizes and CCT/CRI combinations
- Unique 1616 midpower LEDs with wide viewing angle and 95+CRI
- Dynamic COBs for human centric lighting
- Unique and custom spectra available



1145 Sonoma Court

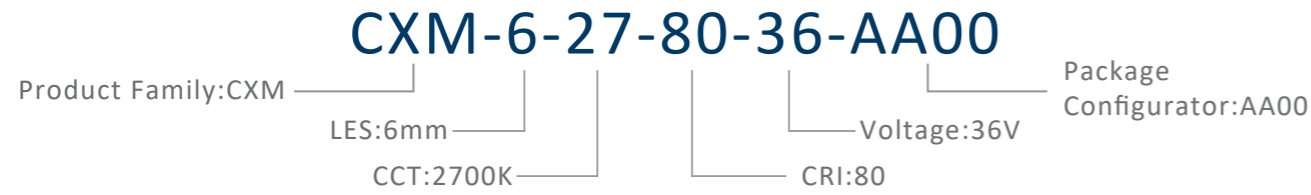
COB Product Evolution



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Product Nomenclature



COB Product Size

- Unless otherwise specified, tolerance is ± 0.3mm
- Luminus designed a complex, unique phosphor ring. The Generation 4 LES diameter is defined consistent with industry practices and aligned to optical characteristics. The LES diameter is not measured at the surface of the phosphor layer. Please use ray files for all optics designs.

Product Family	Size(mm)	LES(mm)	Mechanical Dimensions
CXM-3-AC40	13.5x13.5	3.5	
CXM-4-AC40	13.5x13.5	4.5	
CXM-6-AC40	13.5x13.5	6.3	
CXM-9-AC40 CLM-9-AC40 CIM-9-AC40	13.5x13.5	9.8	

COB Product Size

Product Family	Size(mm)	LES(mm)	Mechanical Dimensions
CXM-9-AA40 CLM-9-AA40	15x15	9.8	
CXM-11-AA40	18.5x18.5	11.9	
CXM-14-AA40 CLM-14-AA40	18.5x18.5	14.5	
CIM-14-AC40 CLM-14-AC40 CXM-14-AC40 CGM-14-AC40	19x19	14.5	

CXM-3										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
80~200	34.2	2.75~7.7	3.5	2.45	13.5*13.5	2400	90	CXM-3-24-90-36-AC40	255	93
						2700	80	CXM-3-27-80-36-AC40	330	120
							90	CXM-3-27-90-36-AC40	275	100
							95	CXM-3-27-95-36-AC40	255	93
						3000	80	CXM-3-30-80-36-AC40	340	124
							90	CXM-3-30-90-36-AC40	290	105
							95	CXM-3-30-95-36-AC40	265	96
						3500	80	CXM-3-35-80-36-AC40	355	129
							90	CXM-3-35-90-36-AC40	300	109
							95	CXM-3-35-95-36-AC40	285	104
						4000	80	CXM-3-40-80-36-AC40	360	131
							90	CXM-3-40-90-36-AC40	305	111
							95	CXM-3-40-95-36-AC40	280	102
						5000	80	CXM-3-50-80-36-AC40	365	133
							90	CXM-3-50-90-36-AC40	310	113
							95	CXM-3-50-95-36-AC40	270	98
						5700	80	CXM-3-57-80-36-AC40	360	131
						6500	80	CXM-3-65-80-36-AC40	360	131

CXM-6										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
150~450	33.3	5~17.1	6.3	1	13.5*13.5	2400	90	CXM-6-24-90-36-AC40	590	118
						2700	80	CXM-6-27-80-36-AC40	760	152
							90	CXM-6-27-90-36-AC40	625	125
							95	CXM-6-27-95-36-AC40	585	117
						3000	80	CXM-6-30-80-36-AC40	785	157
							90	CXM-6-30-90-36-AC40	665	133
							95	CXM-6-30-95-36-AC40	610	122
						3500	80	CXM-6-35-80-36-AC40	815	163
							90	CXM-6-35-90-36-AC40	695	139
							95	CXM-6-35-95-36-AC40	660	132
						4000	70	CXM-6-40-70-36-AC40	845	169
							80	CXM-6-40-80-36-AC40	830	166
							90	CXM-6-40-90-36-AC40	700	140
						5000	95	CXM-6-40-95-36-AC40	640	128
							70	CXM-6-50-70-36-AC40	850	170
							80	CXM-6-50-80-36-AC40	840	168
						5700	90	CXM-6-50-90-36-AC40	705	141
							95	CXM-6-50-95-36-AC40	620	124
							70	CXM-6-57-70-36-AC40	850	170
						6500	80	CXM-6-57-80-36-AC40	830	166
							70	CXM-6-65-70-36-AC40	845	169
							80	CXM-6-65-80-36-AC40	820	164

CXM-4										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
120~400	33.8	4~15	4.5	1.43	13.5*13.5	2400	90	CXM-4-24-90-36-AC40	390	98
						2700	80	CXM-4-27-80-36-AC40	505	126
							90	CXM-4-27-90-36-AC40	415	104
							95	CXM-4-27-95-36-AC40	390	98
						3000	80	CXM-4-30-80-36-AC40	520	130
							90	CXM-4-30-90-36-AC40	440	110
							95	CXM-4-30-95-36-AC40	405	101
						3500	80	CXM-4-35-80-36-AC40	540	135
							90	CXM-4-35-90-36-AC40	460	115
							95	CXM-4-35-95-36-AC40	435	109
						4000	80	CXM-4-40-80-36-AC40	550	138
							90	CXM-4-40-90-36-AC40	465	116
							95	CXM-4-40-95-36-AC40	425	106
						5000	80	CXM-4-50-80-36-AC40	555	139
							90	CXM-4-50-90-36-AC40	470	118
							95	CXM-4-50-95-36-AC40	410	103
						5700	80	CXM-4-57-80-36-AC40	550	138
						6500	80	CXM-4-65-80-36-AC40	545	136

CIM-9										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
180~500	33.3	6.1~19	9.8	0.7	13.5*13.5	2400	90	CIM-9-24-90-36-AC40	730	120
						2700	80	CIM-9-27-80-36-AC40	945	155
							90	CIM-9-27-90-36-AC40	775	127
							95	CIM-9-27-95-36-AC40	725	119
						3000	80	CIM-9-30-80-36-AC40	975	160
							90	CIM-9-30-90-36-AC40	825	135
							95	CIM-9-30-95-36-AC40	760	125
						3500	80	CIM-9-35-80-36-AC40	1,010	166
							90	CIM-9-35-90-36-AC40	860	141
							95	CIM-9-35-95-36-AC40	815	134
						4000	70	CIM-9-40-70-36-AC40	1,045	171
							80	CIM-9-40-80-36-AC40	1,030	169
							90	CIM-9-40-90-36-AC40	870	143
						5000	95	CIM-9-40-95-36-AC40	790	130
							70	CIM-9-50-70-36-AC40	1,055	173
							80	CIM-9-50-80-36-AC40	1,040	170
						5700	90	CIM-9-50-90-36-AC40	875	143
							95	CIM-9-50-95-36-AC40	765	125
							70	CIM-9-57-70-36-AC40	1,055	173
						6500	80	CIM-9-57-80-36-AC40	1,025	168
							70	CIM-9-65-70-36-AC40	1,050	172
							80	CIM-9-65-80-36-AC40	1,020	167

CLM-9										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
250~900	33.3	8.3~34.4	9.8	0.5	13.5*13.5	2400	90	CLM-9-24-90-36-AC40	985	119
							80	CLM-9-27-80-36-AC40	1,270	153
							90	CLM-9-27-90-36-AC40	1,045	126
						2700	95	CLM-9-27-95-36-AC40	980	118
							80	CLM-9-30-80-36-AC40	1,310	158
							90	CLM-9-30-90-36-AC40	1,110	134
						3000	95	CLM-9-30-95-36-AC40	1,020	123
							80	CLM-9-35-80-36-AC40	1,360	164
							90	CLM-9-35-90-36-AC40	1,155	139
						3500	95	CLM-9-35-95-36-AC40	1,100	133
							70	CLM-9-40-70-36-AC40	1,405	169
							80	CLM-9-40-80-36-AC40	1,385	167
						4000	90	CLM-9-40-90-36-AC40	1,170	141
							95	CLM-9-40-95-36-AC40	1,065	128
							70	CLM-9-50-70-36-AC40	1,420	171
						5000	80	CLM-9-50-80-36-AC40	1,400	169
							90	CLM-9-50-90-36-AC40	1,180	142
							95	CLM-9-50-95-36-AC40	1,035	125
						5700	70	CLM-9-57-70-36-AC40	1,420	171
							80	CLM-9-57-80-36-AC40	1,380	166
						6500	70	CLM-9-65-70-36-AC40	1,410	170
							80	CLM-9-65-80-36-AC40	1,370	165

CXM-11										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
450~1300	33.6	15.1~49.3	11.6	0.29	19*19	2400	90	CXM-11-24-90-36-AA40	1,795	119
							80	CXM-11-27-80-36-AA40	2,320	154
							90	CXM-11-27-90-36-AA40	1,905	126
						2700	95	CXM-11-27-95-36-AA40	1,785	118
							80	CXM-11-30-80-36-AA40	2,390	158
							90	CXM-11-30-90-36-AA40	2,020	134
						3000	95	CXM-11-30-95-36-AA40	1,865	124
							80	CXM-11-35-80-36-AA40	2,480	164
							90	CXM-11-35-90-36-AA40	2,110	140
						3500	95	CXM-11-35-95-36-AA40	2,005	133
							70	CXM-11-40-70-36-AA40	2,565	170
							80	CXM-11-40-80-36-AA40	2,525	167
						4000	90	CXM-11-40-90-36-AA40	2,135	141
							95	CXM-11-40-95-36-AA40	1,940	128
							70	CXM-11-50-70-36-AA40	2,590	172
						5000	80	CXM-11-50-80-36-AA40	2,555	169
							90	CXM-11-50-90-36-AA40	2,155	143
							95	CXM-11-50-95-36-AA40	1,885	125
						5700	70	CXM-11-57-70-36-AA40	2,590	172
							80	CXM-11-57-80-36-AA40	2,520	167
						6500	70	CXM-11-65-70-36-AA40	2,575	171
							80	CXM-11-65-80-36-AA40	2,500	166

CXM-9										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
360~1100	33.5	12.1~41.9	9.8	0.32	13.5*13.5	2400	90	CXM-9-24-90-36-AC40	1,395	115
							80	CXM-9-27-80-36-AC40	1,800	149
							90	CXM-9-27-90-36-AC40	1,480	122
						2700	95	CXM-9-27-95-36-AC40	1,385	114
							80	CXM-9-30-80-36-AC40	1,855	153
							90	CXM-9-30-90-36-AC40	1,570	130
						3000	95	CXM-9-30-95-36-AC40	1,445	119
							80	CXM-9-35-80-36-AC40	1,930	160
							90	CXM-9-35-90-36-AC40	1,640	136
						3500	95	CXM-9-35-95-36-AC40	1,555	129
							70	CXM-9-40-70-36-AC40	1,990	164
							80	CXM-9-40-80-36-AC40	1,960	162
						4000	90	CXM-9-40-90-36-AC40	1,660	137
							95	CXM-9-40-95-36-AC40	1,510	125
							70	CXM-9-50-70-36-AC40	2,015	167
						5000	80	CXM-9-50-80-36-AC40	1,985	164
							90	CXM-9-50-90-36-AC40	1,670	138
							95	CXM-9-50-95-36-AC40	1,465	121
						5700	70	CXM-9-57-70-36-AC40	2,015	167
							80	CXM-9-57-80-36-AC40	1,960	162
						6500	70	CXM-9-65-70-36-AC40	2,000	165
							80	CXM-9-65-80-36-AC40	1,940	160

CIM-14										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
450~1300	33.5	15.3~50.1	14.5	0.28	19*19	2400	90	CIM-14-24-90-36-AC40	1,840	120
							80	CIM-14-27-80-36-AC40	2,380	156
							90	CIM-14-27-90-36-AC40	1,955	128
						2700	95	CIM-14-27-95-36-AC40	1,830	120
							80	CIM-14-30-80-36-AC40	2,450	160
							90	CIM-14-30-90-36-AC40	2,070	135
						3000	95	CIM-14-30-95-36-AC40	1,910	125
							80	CIM-14-35-80-36-AC40	2,545	166
							90	CIM-14-35-90-36-AC40	2,160	141
						3500	95	CIM-14-35-95-36-AC40	2,055	134
							70	CIM-14-40-70-36-AC40	2,630	172
							80	CIM-14-40-80-36-AC40	2,590	169
						4000	90	CIM-14-40-90-36-AC40	2,190	143
							95	CIM-14-40-95-36-AC40	1,990	130
							70	CIM-14-50-70-36-AC40	2,655	174
						5000	80	CIM-14-50-80-36-AC40	2,620	171
							90	CIM-14-50-90-36-AC40	2,205	144
							95	CIM-14-50-95-36-AC40	1,930	126
						5700	70	CIM-14-57-70-36-AC40	2,655	174
							80	CIM-14-57-80-36-AC40	2,585	169
						6500	70	CIM-14-65-70-36-AC40	2,640	173
							80	CIM-14-65-80-36-AC40	2,565	168

CLM-14										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
500~1800	33.3	16.6~68.7	14.5	0.25	19*19	2400	90	CLM-14-24-90-36-AC40	2,045	123
						2700	80	CLM-14-27-80-36-AC40	2,640	159
							90	CLM-14-27-90-36-AC40	2,170	131
							95	CLM-14-27-95-36-AC40	2,030	122
						3000	80	CLM-14-30-80-36-AC40	2,720	164
							90	CLM-14-30-90-36-AC40	2,300	139
							95	CLM-14-30-95-36-AC40	2,120	128
						3500	80	CLM-14-35-80-36-AC40	2,825	170
							90	CLM-14-35-90-36-AC40	2,400	145
							95	CLM-14-35-95-36-AC40	2,280	137
						4000	70	CLM-14-40-70-36-AC40	2,920	176
							80	CLM-14-40-80-36-AC40	2,875	173
							90	CLM-14-40-90-36-AC40	2,430	146
							95	CLM-14-40-95-36-AC40	2,210	133
						5000	70	CLM-14-50-70-36-AC40	2,950	178
							80	CLM-14-50-80-36-AC40	2,910	175
							90	CLM-14-50-90-36-AC40	2,450	148
						5700	95	CLM-14-50-95-36-AC40	2,145	129
							70	CLM-14-57-70-36-AC40	2,950	178
						6500	80	CLM-14-57-80-36-AC40	2,870	173
							70	CLM-14-65-70-36-AC40	2,930	177
						80	CLM-14-65-80-36-AC40	2,845	171	

CXM-14										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
720~2000	33.5	24.1~75.6	14.5	0.23	19*19	2400	90	CXM-14-24-90-36-AC40	2,945	122
						2700	80	CXM-14-27-80-36-AC40	3,800	158
							90	CXM-14-27-90-36-AC40	3,125	130
							95	CXM-14-27-95-36-AC40	2,920	121
						3000	80	CXM-14-30-80-36-AC40	3,915	162
							90	CXM-14-30-90-36-AC40	3,310	137
							95	CXM-14-30-95-36-AC40	3,050	127
						3500	80	CXM-14-35-80-36-AC40	4,065	169
							90	CXM-14-35-90-36-AC40	3,455	143
							95	CXM-14-35-95-36-AC40	3,280	136
						4000	70	CXM-14-40-70-36-AC40	4,205	174
							80	CXM-14-40-80-36-AC40	4,140	172
							90	CXM-14-40-90-36-AC40	3,500	145
							95	CXM-14-40-95-36-AC40	3,180	132
						5000	70	CXM-14-50-70-36-AC40	4,245	176
							80	CXM-14-50-80-36-AC40	4,190	174
							90	CXM-14-50-90-36-AC40	3,525	146
						5700	95	CXM-14-50-95-36-AC40	3,085	128
							70	CXM-14-57-70-36-AC40	4,245	176
						6500	80	CXM-14-57-80-36-AC40	4,130	171
							70	CXM-14-65-70-36-AC40	4,215	175
						80	CXM-14-65-80-36-AC40	4,095	170	

CGM-14										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
900~2300	33.8	30.4~86.3	14.5	0.22	19*19	2400	90	CGM-14-24-90-36-AC40	3,540	116
						2700	80	CGM-14-27-80-36-AC40	4,570	150
							90	CGM-14-27-90-36-AC40	3,760	124
							95	CGM-14-27-95-36-AC40	3,515	116
						3000	70	CGM-14-30-70-36-AC40	4,855	160
							80	CGM-14-30-80-36-AC40	4,710	155
							90	CGM-14-30-90-36-AC40	3,985	131
							95	CGM-14-30-95-36-AC40	3,670	121
						3500	80	CGM-14-35-80-36-AC40	4,890	161
							90	CGM-14-35-90-36-AC40	4,155	137
							95	CGM-14-35-95-36-AC40	3,950	130
						4000	70	CGM-14-40-70-36-AC40	5,055	166
							80	CGM-14-40-80-36-AC40	4,980	164
							90	CGM-14-40-90-36-AC40	4,210	138
							95	CGM-14-40-95-36-AC40	3,825	126
						5000	70	CGM-14-50-70-36-AC40	5,110	168
							80	CGM-14-50-80-36-AC40	5,040	166
							90	CGM-14-50-90-36-AC40	4,240	139
						5700	95	CGM-14-50-95-36-AC40	3,715	122
							70	CGM-14-57-70-36-AC40	5,110	168
						6500	80	CGM-14-57-80-36-AC40	4,970	163
							70	CGM-14-65-70-36-AC40	5,075	167
						80	CGM-14-65-80-36-AC40	4,925	162	

CXM-18										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
800~2500	33.5	26.8~93.8	17.5	0.17	21.5*21.5	2400	90	CXM-18-24-90-36-AA40	3,315	124
						2700	80	CXM-18-27-80-36-AA40	4,280	160
							90	CXM-18-27-90-36-AA40	3,520	131
							95	CXM-18-27-95-36-AA40	3,290	123
						3000	70	CXM-18-30-70-36-AA40	4,550	170
							80	CXM-18-30-80-36-AA40	4,410	165
							90	CXM-18-30-90-36-AA40	3,730	139
						3500	95	CXM-18-30-95-36-AA40	3,435	128
							80	CXM-18-35-80-36-AA40	4,580	171
							90	CXM-18-35-90-36-AA40	3,890	145
						4000	95	CXM-18-35-95-36-AA40	3,695	138
							70	CXM-18-40-70-36-AA40	4,735	177
							80	CXM-18-40-80-36-AA40	4,660	174
							90	CXM-18-40-90-36-AA40	3,940	147
						5000	95	CXM-18-40-95-36-AA40	3,585	134
							70	CXM-18-50-70-36-AA40	4,785	179
							80	CXM-18-50-80-36-AA40	4,720	176
						5700	90	CXM-18-50-90-36-AA40	3,970	148
							95	CXM-18-50-95-36-AA40	3,480	130
						6500	70	CXM-18-57-70-36-AA40	4,785	179
							80	CXM-18-57-80-36-AA40	4,655	174
						70	CXM-18-65-70-36-AA40	4,750	177	
						80	CXM-18-65-80-36-AA40	4,615	172	

CIM-22										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
990~3000	33.5	33.2~112.5	22	0.16	28*28	2700	80	CIM-22-27-80-36-AC40	5,315	160
							90	CIM-22-27-90-36-AC40	4,370	132
							95	CIM-22-27-95-36-AC40	4,085	123
						3000	70	CIM-22-30-70-36-AC40	5,645	170
							80	CIM-22-30-80-36-AC40	5,475	165
							90	CIM-22-30-90-36-AC40	4,630	139
						3500	95	CIM-22-30-95-36-AC40	4,265	128
							80	CIM-22-35-80-36-AC40	5,685	171
							90	CIM-22-35-90-36-AC40	4,830	145
						4000	95	CIM-22-35-95-36-AC40	4,590	138
							70	CIM-22-40-70-36-AC40	5,880	177
							80	CIM-22-40-80-36-AC40	5,785	174
						5000	90	CIM-22-40-90-36-AC40	4,890	147
							95	CIM-22-40-95-36-AC40	4,450	134
							70	CIM-22-50-70-36-AC40	5,940	179
						5700	80	CIM-22-50-80-36-AC40	5,855	176
							90	CIM-22-50-90-36-AC40	4,930	148
							95	CIM-22-50-95-36-AC40	4,320	130
						6500	70	CIM-22-57-70-36-AC40	5,940	179
							80	CIM-22-57-80-36-AC40	5,775	174
						6500	70	CIM-22-65-70-36-AC40	5,900	178
80	CIM-22-65-80-36-AC40	5,725	172							

CLM-22										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
1050~3500	33.5	35.2~131.3	22	0.14	28*28	2200	70	CLM-22-22-70-36-AC40	5,225	148
						2400	90	CLM-22-24-90-36-AC40	4,415	125
						2700	80	CLM-22-27-80-36-AC40	5,700	162
							90	CLM-22-27-90-36-AC40	4,685	133
							95	CLM-22-27-95-36-AC40	4,385	125
						3000	70	CLM-22-30-70-36-AC40	6,060	172
							80	CLM-22-30-80-36-AC40	5,875	167
							90	CLM-22-30-90-36-AC40	4,970	141
						3500	95	CLM-22-30-95-36-AC40	4,580	130
							80	CLM-22-35-80-36-AC40	6,100	173
							90	CLM-22-35-90-36-AC40	5,185	147
						4000	95	CLM-22-35-95-36-AC40	4,925	140
							70	CLM-22-40-70-36-AC40	6,305	179
							80	CLM-22-40-80-36-AC40	6,210	176
						5000	90	CLM-22-40-90-36-AC40	5,250	149
							95	CLM-22-40-95-36-AC40	4,775	136
							70	CLM-22-50-70-36-AC40	6,370	181
						5700	80	CLM-22-50-80-36-AC40	6,285	179
							90	CLM-22-50-90-36-AC40	5,290	150
							95	CLM-22-50-95-36-AC40	4,635	132
						6500	70	CLM-22-57-70-36-AC40	6,370	181
80	CLM-22-57-80-36-AC40	6,200	176							
6500	70	CLM-22-65-70-36-AC40	6,330	180						
	80	CLM-22-65-80-36-AC40	6,145	175						

CXM-22										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
1050~3500	51	53.6~196	22	0.12	28*28	2200	70	CXM-22-22-70-54-AC40	7,705	147
							80	CXM-22-27-80-54-AC40	8,405	161
							90	CXM-22-27-90-54-AC40	6,910	132
						2700	95	CXM-22-27-95-54-AC40	6,465	124
							70	CXM-22-30-70-54-AC40	8,930	171
							80	CXM-22-30-80-54-AC40	8,660	166
						3000	90	CXM-22-30-90-54-AC40	7,325	140
							95	CXM-22-30-95-54-AC40	6,750	129
							80	CXM-22-35-80-54-AC40	8,995	172
						3500	90	CXM-22-35-90-54-AC40	7,640	146
							95	CXM-22-35-95-54-AC40	7,260	139
							70	CXM-22-40-70-54-AC40	9,295	178
						4000	80	CXM-22-40-80-54-AC40	9,155	175
							90	CXM-22-40-90-54-AC40	7,735	148
							95	CXM-22-40-95-54-AC40	7,035	135
						5000	70	CXM-22-50-70-54-AC40	9,390	180
							80	CXM-22-50-80-54-AC40	9,265	177
							90	CXM-22-50-90-54-AC40	7,800	149
						5700	95	CXM-22-50-95-54-AC40	6,830	131
							70	CXM-22-57-70-54-AC40	9,390	180
							80	CXM-22-57-80-54-AC40	9,140	175
6500	70	CXM-22-65-70-54-AC40	9,330	178						
	80	CXM-22-65-80-54-AC40	9,060	173						

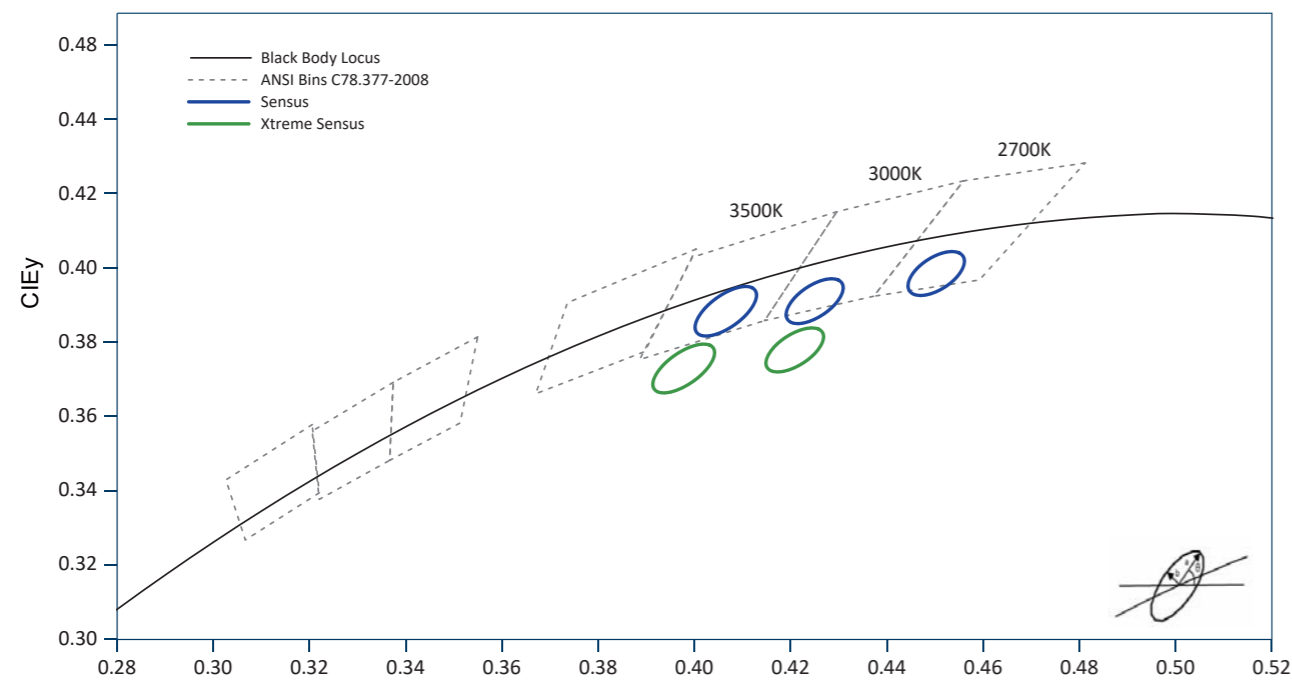
CGM-22										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
1600~4000	51	81.6~224	22	0.11	28*28	2200	70	CGM-22-22-70-54-AC40	11,415	141
							80	CGM-22-27-80-54-AC40	12,455	154
							90	CGM-22-27-90-54-AC40	10,235	126
						2700	95	CGM-22-27-95-54-AC40	9,575	118
							70	CGM-22-30-70-54-AC40	13,230	163
							80	CGM-22-30-80-54-AC40	12,830	158
						3000	90	CGM-22-30-90-54-AC40	10,850	134
							95	CGM-22-30-95-54-AC40	10,000	123
							80	CGM-22-35-80-54-AC40	13,325	164
						3500	90	CGM-22-35-90-54-AC40	11,320	140
							95	CGM-22-35-95-54-AC40	10,755	133
							70	CGM-22-40-70-54-AC40	13,775	170
						4000	80	CGM-22-40-80-54-AC40	13,560	167
							90	CGM-22-40-90-54-AC40	11,460	141
							95	CGM-22-40-95-54-AC40	10,425	129
						5000	70	CGM-22-50-70-54-AC40	13,915	172
							80	CGM-22-50-80-54-AC40	13,725	169
							90	CGM-22-50-90-54-AC40	11,555	142
						5700	95	CGM-22-50-95-54-AC40	10,120	125
							70	CGM-22-57-70-54-AC40	13,915	172
							80	CGM-22-57-80-54-AC40	13,540	167
6500	70	CGM-22-65-70-54-AC40	13,820	170						
	80	CGM-22-65-80-54-AC40	13,420	165						

CXM-32										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
2400~5000	51	122.4~280	32.8	0.07	38*38	2200	70	CXM-32-22-70-54-AC40	17,260	140
						2700	80	CXM-32-27-80-54-AC40	18,830	153
							90	CXM-32-27-90-54-AC40	15,475	126
							95	CXM-32-27-95-54-AC40	14,480	118
							70	CXM-32-30-70-54-AC40	20,005	163
							80	CXM-32-30-80-54-AC40	19,400	158
							90	CXM-32-30-90-54-AC40	16,405	133
							95	CXM-32-30-95-54-AC40	15,120	123
							80	CXM-32-35-80-54-AC40	20,150	164
							90	CXM-32-35-90-54-AC40	17,120	139
							95	CXM-32-35-95-54-AC40	16,260	132
							70	CXM-32-40-70-54-AC40	20,825	169
							80	CXM-32-40-80-54-AC40	20,505	167
							90	CXM-32-40-90-54-AC40	17,330	141
							95	CXM-32-40-95-54-AC40	15,765	128
							70	CXM-32-50-70-54-AC40	21,040	171
							80	CXM-32-50-80-54-AC40	20,755	169
							90	CXM-32-50-90-54-AC40	17,475	142
							95	CXM-32-50-95-54-AC40	15,300	124
							70	CXM-32-57-70-54-AC40	21,040	171
							80	CXM-32-57-80-54-AC40	20,470	167
							70	CXM-32-65-70-54-AC40	20,900	170
							80	CXM-32-65-80-54-AC40	20,290	165

Sensus™ COBs

- A purer white, brighter colors, below the Black Body Locus (BBL) source.
- Engineered to deliver warm, “pure white” light as perceived by the human eye.
- Light similar to CMH, but with easy dimming, longer life, and higher efficacy.

Sensus™ Chromaticity Bin Structure: (Sensus™ + Xtreme Sensus™)

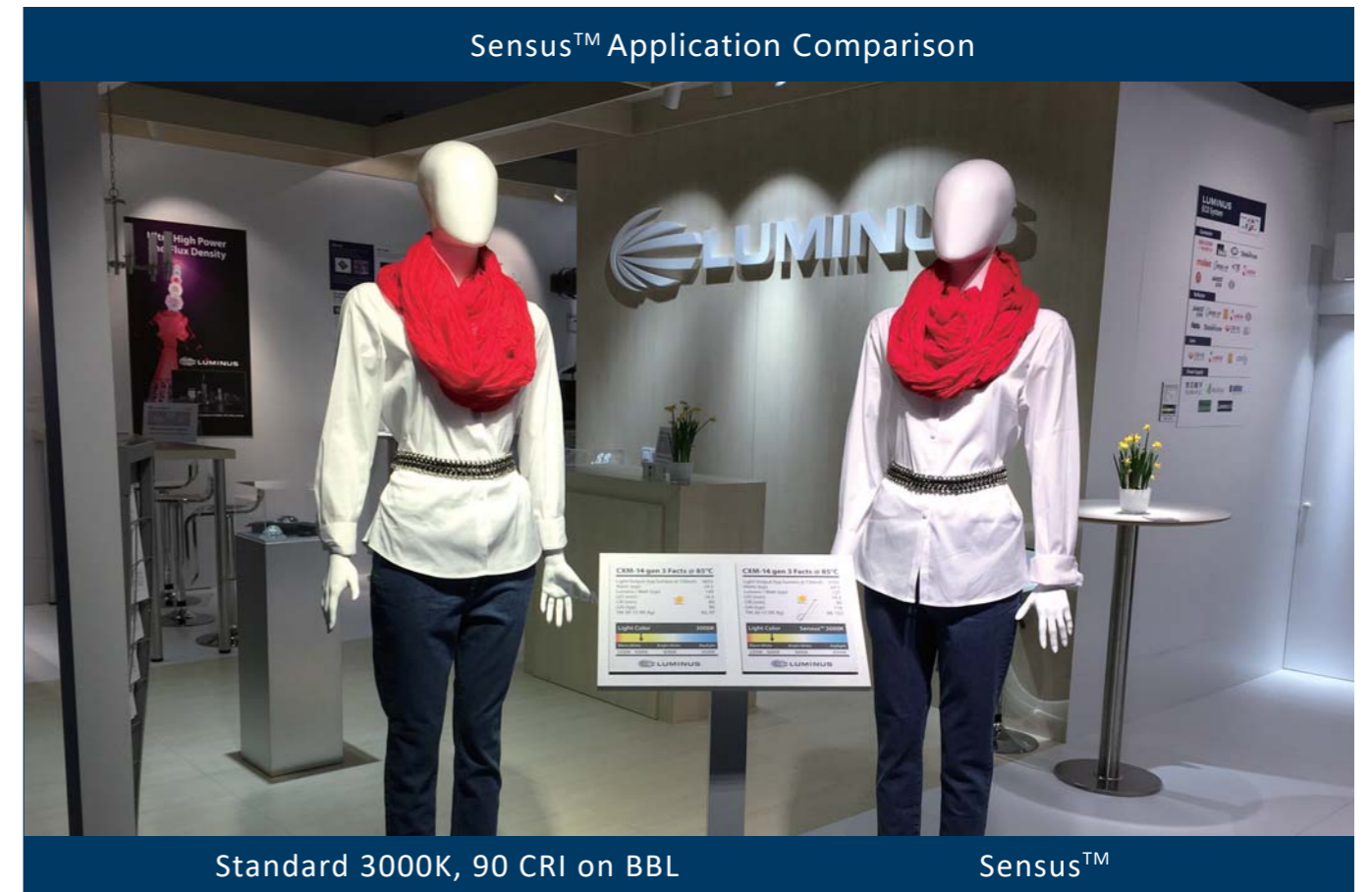


Specifications refer to product datasheet.

CIEx
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Sensus™										
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
CXM-6	150~450	33.3	5~17.1	6.5	13.5*13.5	2700	90	CXM-6-27-90-36-AC42	600	120
						3000	80	CXM-6-30-80-36-AC42	740	148
						3500	90	CXM-6-30-90-36-AC42	655	131
CIM-9	180~700	33.3	6.1~29.4	9.8	13.5*13.5	2700	90	CIM-9-27-90-36-AC42	680	136
						3000	80	CIM-9-30-80-36-AC42	745	122
						3500	90	CIM-9-30-90-36-AC42	915	150
CLM-9	250~900	33.3	8.3~34.4	9.8	13.5*13.5	2700	90	CIM-9-35-90-36-AC42	810	133
						3000	80	CLM-9-27-90-36-AC42	845	139
						3500	90	CLM-9-30-80-36-AC42	1,000	122
CXM-9	360~1100	33.5	12.1~41.9	9.8	13.5*13.5	2700	90	CLM-9-30-80-36-AC42	1,235	149
						3000	80	CLM-9-30-90-36-AC42	1,095	132
						3500	90	CLM-9-35-90-36-AC42	1,135	137
CXM-11	450~1300	33.6	15.1~49.3	11.9	19*19	2700	90	CXM-9-27-90-36-AA42	1,415	119
						3000	80	CXM-9-30-80-36-AA42	1,745	144
						3500	90	CXM-9-30-90-36-AA42	1,550	128
CIM-14	450~1300	33.5	15.3~50.1	14.5	19*19	2700	90	CXM-9-35-90-36-AA42	1,610	133
						3000	80	CXM-9-27-90-36-AC42	1,415	119
						3500	90	CXM-9-30-80-36-AC42	1,745	144
CLM-14	500~1800	33.3	16.6~68.7	14.5	19*19	2700	90	CXM-9-30-90-36-AC42	1,550	128
						3000	80	CXM-9-30-80-36-AC42	1,745	144
						3500	90	CXM-9-35-90-36-AC42	1,610	133
CXM-14	900~2300	33.8	24.1~75.6	14.5	18.5*18.5	2700	90	CXM-11-27-90-36-AA42	1,825	122
						3000	80	CXM-11-30-80-36-AA42	2,250	149
						3500	90	CXM-11-30-90-36-AA42	1,995	132
CGM-14	900~2300	33.8	30.4~86.3	14.5	19*19	2700	90	CXM-11-35-90-36-AA42	2,075	137
						3000	80	CIM-14-27-90-36-AC42	1,870	126
						3500	90	CIM-14-30-80-36-AC42	2,305	151
CXM-18	800~2500	33.5	26.8~93.8	18	21.5*21.5	2700	90	CIM-14-30-90-36-AC42	2,045	134
						3000	80	CIM-14-35-90-36-AC42	2,125	139
						3500	90	CLM-14-27-90-36-AC42	2,075	127
CIM-22	990~3000	33.5	33.2~112.5	22	28*28	2700	90	CLM-14-30-80-36-AC42	2,560	154
						3000	80	CLM-14-30-90-36-AC42	2,270	137
						3500	90	CLM-14-35-90-36-AC42	2,360	142
CLM-22	1050~3500	33.5	35.2~131.3	22	28*28	2700	90	CXM-14-27-90-36-AA42	2,990	124
						3000	80	CXM-14-30-80-36-AA42	3,685	153
						3500	90	CXM-14-30-90-36-AA42	3,265	135
CXM-22	1050~3500	51	53.6~196	22	28*28	2700	90	CXM-14-35-90-36-AA42	3,395	141
						3000	80	CXM-14-30-80-36-AC42	3,685	153
						3500	90	CXM-14-30-90-36-AC42	3,265	135
CGM-22	1600~4000	51	81.6~224	22	28*28	2700	90	CXM-14-35-90-36-AC42	3,395	141
						3000	80	CGM-14-27-90-36-AC42	3,595	120
						3500	90	CGM-14-30-80-36-AC42	4,435	146
CXM-32	2400~5000	51	122.4~280	33	38*38	2700	90	CGM-14-30-90-36-AC42	3,930	129
						3000	80	CGM-14-35-90-36-AC42	4,085	134
						3500	90	CXM-18-27-90-36-AA42	3,365	127
CXM-6	150~450	33.3	5~17.1	6.5	13.5*13.5	2700	90	CXM-18-30-90-36-AA42	3,680	137
						3000	80	CXM-18-35-90-36-AA42	3,825	143
						3500	90	CIM-22-30-90-36-AC42	4,570	138
CIM-9	180~700	33.3	6.1~29.4	9.8	13.5*13.5	2700	90	CIM-22-35-90-36-AC42	4,750	143
						3000	80	CLM-22-30-90-36-AC42	4,905	139
						3500	90	CLM-22-35-90-36-AC42	5,095	145
CLM-9	250~900	33.3	8.3~34.4	9.8	13.5*13.5	2700	90	CXM-22-30-90-54-AC42	7,225	138
						3000	80	CXM-22-35-90-54-AC42	7,515	144
						3500	90	CGM-22-30-90-54-AC42	10,705	132
CXM-9	360~1100	33.5	12.1~41.9	9.8	13.5*13.5	2700	90	CGM-22-35-90-54-AC42	11,130	137
						3000	80	CXM-32-30-90-54-AC42	16,190	132
						3500	90	CXM-32-35-90-54-AC42	16,830	137

Xtreme Sensus™										
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
CXM-6	150~450	33.3	5~17.1	6.5	13.5*13.5	3000	90	CXM-6-30-90-18-AC44	640	128
						3500	90	CXM-6-35-90-18-AC44	670	134
CIM-9	180~700	33.3	6.1~29.4	9.8	13.5*13.5	3000	90	CIM-9-30-90-36-AC44	795	130
						3500	90	CIM-9-35-90-36-AC44	830	136
CLM-9	250~900	33.3	8.3~34.4	9.8	13.5*13.5	3000	90	CLM-9-30-90-36-AC44	1,070	129
						3500	90	CLM-9-35-90-36-AC44	1,115	134
CXM-9	360~1100	33.5	12.1~41.9	9.8	13.5*13.5	3000	90	CXM-9-30-90-36-AA44	1,515	125
						3500	90	CXM-9-35-90-36-AA44	1,580	131
						3000	90	CXM-9-30-90-36-AC44	1,515	125
						3500	90	CXM-9-35-90-36-AC44	1,580	131
CXM-11	450~1300	33.6	15.1~49.3	11.9	19*19	3000	90	CXM-11-30-90-36-AA44	1,950	129
						3500	90	CXM-11-35-90-36-AA44	2,035	135
CIM-14	450~1300	33.5	15.3~50.1	14.5	19*19	3000	90	CIM-14-30-90-36-AC44	2,000	131
						3500	90	CIM-14-35-90-36-AC44	2,085	136
CLM-14	500~1800	33.3	16.6~68.7	14.5	19*19	3000	90	CLM-14-30-90-36-AC44	2,220	134
						3500	90	CLM-14-35-90-36-AC44	2,315	139
CXM-14	900~2300	33.8	24.1~75.6	14.5	19*19	3000	90	CXM-14-30-90-36-AA44	3,200	133
						3500	90	CXM-14-35-90-36-AA44	3,330	138
						3000	90	CXM-14-30-90-36-AC44	3,200	133
						3500	90	CXM-14-35-90-36-AC44	3,330	138
CGM-14	900~2300	33.8	30.4~86.3	14.5	19*19	3000	90	CGM-14-30-90-36-AC44	3,845	126
						3500	90	CGM-14-35-90-36-AC44	4,005	132
CXM-18	800~2500	33.5	26.8~93.8	18	21.5*21.5	3000	90	CXM-18-30-90-36-AA44	3,600	134
						3500	90	CXM-18-35-90-36-AA44	3,750	140
CIM-22	990~3000	33.5	33.2~112.5	22	28*28	3000	90	CIM-22-30-90-36-AC44	4,470	135
						3500	90	CIM-22-35-90-36-AC44	4,660	140
CLM-22	1050~3500	33.5	35.2~131.3	22	28*28	3000	90	CLM-22-30-90-36-AC44	4,800	136
						3500	90	CLM-22-35-90-36-AC44	5,000	142
CXM-22	1050~3500	51	53.6~196	22	28*28	3000	90	CXM-22-30-90-54-AC44	7,075	135
						3500	90	CXM-22-35-90-54-AC44	7,370	141
CGM-22	1600~4000	51	81.6~224	22	28*28	3000	90	CGM-22-30-90-54-AC44	10,480	129
						3500	90	CGM-22-35-90-54-AC44	10,915	135
CXM-32	2400~5000	51	122.4~280	33	38*38	3000	90	CXM-32-30-90-54-AC44	15,845	129
						3500	90	CXM-32-35-90-54-AC44	16,505	134



Xtreme Sensus™											
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy LPW
CIM-9	180~360	33.8	6.1~13.2	9.6	0.7	13.5*13.5 (AC34)	3000	90	CIM-9-30-90-36-AC34	620	102
							3500	90	CIM-9-35-90-36-AC34	635	104
CXM-9	360~720	34	12.2~27.0	9.6	0.5	13.5*13.5 (AC34)	3000	90	CXM-9-30-90-36-AC34	1,235	101
							3500	90	CXM-9-35-90-36-AC34	1,260	103
CXM-11	450~1080	33.8	15.2~40.5	11.6	0.35	19*19(AC) 18.5*18.5(AA)	3000	90	CXM-11-30-90-36-AC34	1,580	104
							3500	90	CXM-11-35-90-36-AC34	1,615	106
CIM-14	450~1080	34	15~40	14.3	0.32	19*19 (AC)	3000	90	CIM-14-30-90-36-AC34	1,605	107
							3500	90	CIM-14-35-90-36-AC34	1,640	109
CLM-14	500~1260	33.8	17~47	14.3	0.31	19*19(AC) 18.5*18.5(AA)	3000	90	CLM-14-30-90-36-AC34	1,640	96
							3500	90	CLM-14-35-90-36-AC34	1,670	98
CXM-14	720~1440	34	24.5~54	14.3	0.27	19*19(AC) 18.5*18.5(AA)	3000	90	CXM-14-30-90-36-AC34	2,520	103
							3500	90	CXM-14-35-90-36-AC34	2,570	105
CXM-18	900~1800	34	30.6~64	17.5	0.21	21.5*21.5 (AA34)	3000	90	CXM-18-30-90-36-AA34	3,575	117
							3500	90	CXM-18-35-90-36-AA34	3,645	119
CLM-22	1100~2200	33.8	37.2~82	22	0.19	28*28 (AC34)	3000	90	CLM-22-30-90-36-AC34	3,750	101
							3500	90	CLM-22-35-90-36-AC34	3,830	103

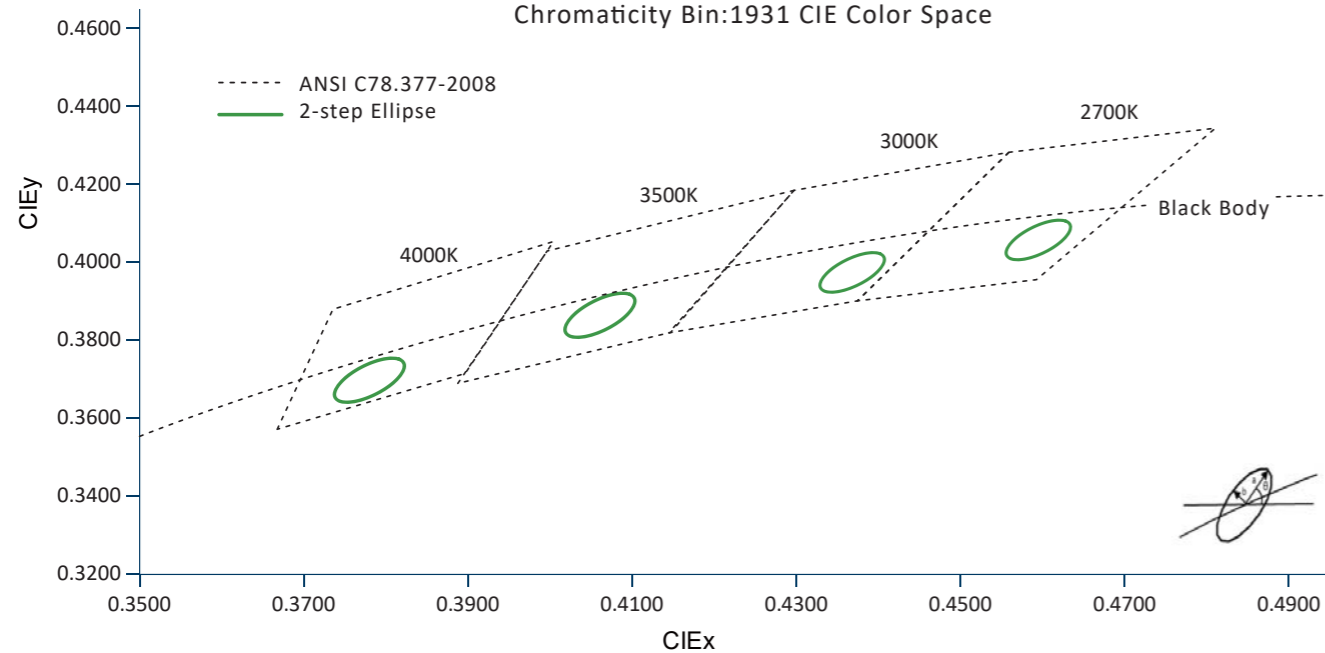
Hospitality COBs

- Precision 2 step chromaticity control with warm CCTs
- Up to 97 CRI and 95 R9
- Natural skin tones and vivid colors
- Leading efficacy and flux density for long throws
- Never pink, never green, just the cozy warm tone you want



Chromaticity Bin Structure

Chromaticity Bin:1931 CIE Color Space



Hospitality											
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
CXM-4	120~400	33.8	4~15	4.5	1.43	13.5*13.5	2700	90	CXM-4-27-90-36-TC41-F5-2	410	103
							2700	95	CXM-4-27-95-36-TC41-F5-2	355	89
							3000	90	CXM-4-30-90-36-TC41-F5-2	425	106
							3000	95	CXM-4-30-95-36-TC41-F5-2	370	93
							3500	90	CXM-4-35-90-36-TC41-F5-2	435	109
							3500	95	CXM-4-35-95-36-TC41-F5-2	370	93
							4000	90	CXM-4-40-90-36-TC41-F5-2	450	113
							4000	95	CXM-4-40-95-36-TC41-F5-2	410	103
CXM-6	150~450	33.5	5~16.9	6.3	1.00	13.5*13.5	2700	90	CXM-6-27-90-36-TC41-F5-2	610	122
							2700	95	CXM-6-27-95-36-TC41-F5-2	535	107
							3000	90	CXM-6-30-90-36-TC41-F5-2	645	129
							3000	95	CXM-6-30-95-36-TC41-F5-2	570	114
							3500	90	CXM-6-35-90-36-TC41-F5-2	675	135
							3500	95	CXM-6-35-95-36-TC41-F5-2	600	120
							4000	90	CXM-6-40-90-36-TC41-F5-2	685	137
							4000	95	CXM-6-40-95-36-TC41-F5-2	620	124
CXM-9	360~1100	33.5	12.1~41.3	9.8	0.32	13.5*13.5	2700	90	CXM-9-27-90-36-TC41-F5-2	1,460	121
							2700	95	CXM-9-27-95-36-TC41-F5-2	1,260	104
							3000	90	CXM-9-30-90-36-TC41-F5-2	1,520	126
							3000	95	CXM-9-30-95-36-TC41-F5-2	1,315	109
							3500	90	CXM-9-35-90-36-TC41-F5-2	1,515	125
							3500	95	CXM-9-35-95-36-TC41-F5-2	1,385	114
							4000	90	CXM-9-40-90-36-TC41-F5-2	1,600	132
							4000	95	CXM-9-40-95-36-TC41-F5-2	1,450	120
CXM-14	720~1750	33.5	24.1~66.5	14.5	0.23	19*19	2700	90	CXM-14-27-90-36-TC41-F5-2	2,975	123
							2700	95	CXM-14-27-95-36-TC41-F5-2	2,515	104
							3000	90	CXM-14-30-90-36-TC41-F5-2	3,035	126
							3000	95	CXM-14-30-95-36-TC41-F5-2	2,610	108
							3500	90	CXM-14-35-90-36-TC41-F5-2	3,155	131
							3500	95	CXM-14-35-95-36-TC41-F5-2	2,910	121
							4000	90	CXM-14-40-90-36-TC41-F5-2	3,275	136
							4000	95	CXM-14-40-95-36-TC41-F5-2	2,880	120
CLM-22	1050~3200	33.5	35.2~131.5	22.0	0.16	28*28	2700	90	CLM-22-27-90-36-TC41-F5-2	4,290	122
							2700	95	CLM-22-27-95-36-TC41-F5-2	3,710	105
							3000	90	CLM-22-30-90-36-TC41-F5-2	4,470	127
							3000	95	CLM-22-30-95-36-TC41-F5-2	3,845	109
							3500	90	CLM-22-35-90-36-TC41-F5-2	4,645	132
							3500	95	CLM-22-35-95-36-TC41-F5-2	4,290	122
							4000	90	CLM-22-40-90-36-TC41-F5-2	4,825	137
							4000	95	CLM-22-40-95-36-TC41-F5-2	4,245	121

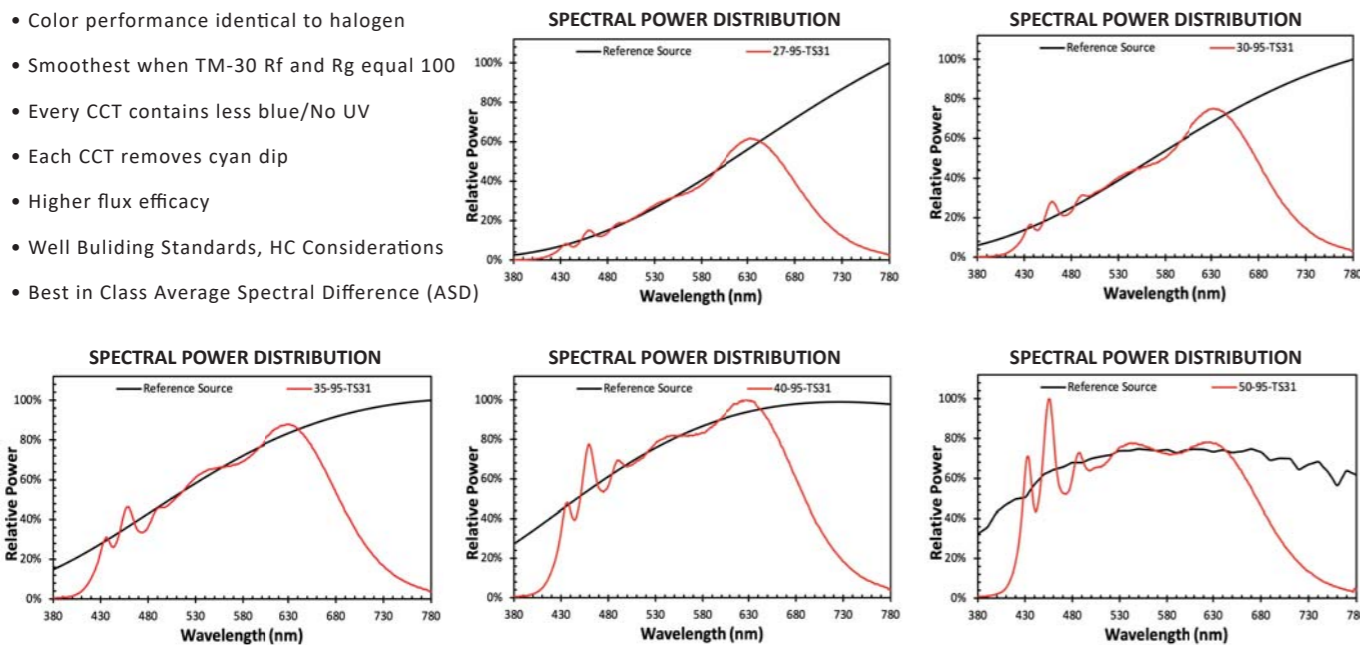
Smooth White

Smooth White											
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
CXM-6	150~300	33.5	5.0~12.0	6.3	1.00	13.5*13.5	CXM-6-27-95-36-TS31	2700	95	510	101
							CXM-6-30-95-36-TS31	3000	95	530	105
							CXM-6-35-95-36-TS31	3500	95	555	110
							CXM-6-40-95-36-TS31	4000	95	560	111
							CXM-6-50-95-36-TS31	5000	95	580	115
CXM-9	360~720	33.5	12.1~26.6	9.8	0.50	13.5*13.5	CXM-9-27-95-36-TS31	2700	95	1,225	102
							CXM-9-30-95-36-TS31	3000	95	1,285	107
							CXM-9-35-95-36-TS31	3500	95	1,335	111
							CXM-9-40-95-36-TS31	4000	95	1,380	114
							CXM-9-50-95-36-TS31	5000	95	1,445	120
CXM-11	450~900	33.5	15.2~40.5	11.9	0.35	19*19	CXM-11-27-95-36-TS31	2700	95	1,615	107
							CXM-11-30-95-36-TS31	3000	95	1,680	111
							CXM-11-35-95-36-TS31	3500	95	1,760	117
							CXM-11-40-95-36-TS31	4000	95	1,780	118
							CXM-11-50-95-36-TS31	5000	95	1,835	122
CXM-14	720~1440	33.5	24.1~53.5	14.5	0.23	19*19	CXM-14-27-95-36-TS31	2700	95	2,560	106
							CXM-14-30-95-36-TS31	3000	95	2,665	110
							CXM-14-35-95-36-TS31	3500	95	2,795	116
							CXM-14-40-95-36-TS31	4000	95	2,820	117
							CXM-14-50-95-36-TS31	5000	95	2,915	121
CXM-22	1050~2100	33.5	35.2~77.7	22.0	0.16	28*28	CXM-22-27-95-36-TS31	2700	95	3,865	110
							CXM-22-30-95-36-TS31	3000	95	4,020	114
							CXM-22-35-95-36-TS31	3500	95	4,220	120
							CXM-22-40-95-36-TS31	4000	95	4,255	121
							CXM-22-50-95-36-TS31	5000	95	4,395	125

Luminus "Smoother" solution!

The "naturalness" of a light source and its value for "human-centric lighting."

- Color performance identical to halogen
- Smoothest when TM-30 Rf and Rg equal 100
- Every CCT contains less blue/No UV
- Each CCT removes cyan dip
- Higher flux efficacy
- Well Buliding Standards, HC Considerations
- Best in Class Average Spectral Difference (ASD)



Outdoor COBs

- Outstanding efficacy
- Five year warranty



CCT	CPN	LES	Size	Current	Voltage	Power	Rth	typ Φ 85	Efficacy
2200K	CLM-22-22-70-36-AC40	22.0	28*28	1050~3500	31~37	35~131	0.19	5,225	148
	CXM-22-22-70-54-AC40	22.0	28*28	1050~3500	48~55	54~196	0.17	7,705	147
	CGM-22-22-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.15	11,415	141
	CXM-32-22-70-54-AC40	33.0	38*38	2400~5000	48~55	122~280	0.11	17,260	140
	CXM-18-30-70-36-AA40	18.0	21.5*21.5	800~2500	31~37	27~94	0.21	4,550	170
3000K	CIM-22-30-70-36-AC40	22.0	28*28	990~3000	31~37	33~113	0.20	5,645	170
	CLM-22-30-70-36-AC40	22.0	28*28	1050~3500	31~37	35~131	0.19	6,060	172
	CXM-22-30-70-54-AC40	22.0	28*28	1050~3500	48~55	54~196	0.17	8,930	171
	CGM-22-30-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.15	13,230	163
	CXM-32-30-70-54-AC40	33.0	38*38	2400~5000	48~55	122~280	0.11	20,005	163
4000K	CGM-14-40-70-36-AC40	14.5	19*19	900~2300	31~37	30~86	0.24	5,055	166
	CXM-18-40-70-36-AA40	18.0	21.5*21.5	800~2500	31~37	27~94	0.21	4,735	177
	CIM-22-40-70-36-AC40	22.0	28*28	990~3000	31~37	33~113	0.20	5,880	177
	CLM-22-40-70-36-AC40	22.0	28*28	1050~3500	31~37	35~131	0.19	6,305	179
	CXM-22-40-70-54-AC40	22.0	28*28	1050~3500	48~55	54~196	0.17	9,295	178
5000K	CGM-22-40-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.15	13,775	170
	CGM-22-50-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.15	20,825	169
	CXM-32-50-70-54-AC40	33.0	38*38	2400~5000	48~55	122~280	0.11	23,775	170
	CGM-14-50-70-36-AC40	14.5	19*19	900~2300	31~37	30~86	0.24	5,110	168
	CXM-18-50-70-36-AA40	18.0	21.5*21.5	800~2500	31~37	27~94	0.21	4,785	179
5700K	CIM-22-50-70-36-AC40	22.0	28*28	990~3000	31~37	33~113	0.20	5,940	179
	CLM-22-50-70-36-AC40	22.0	28*28	1050~3500	31~37	35~131	0.19	6,370	181
	CXM-22-50-70-54-AC40	22.0	28*28	1050~3500	48~55	54~196	0.17	9,390	180
	CGM-22-50-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.15	13,915	172
	CXM-32-50-70-54-AC40	33.0	38*38	2400~5000	48~55	122~280	0.11	21,040	171
6500K	CGM-14-57-70-36-AC40	14.5	19*19	900~2300	31~37	30~86	0.22	5,110	171
	CXM-18-57-70-36-AA40	17.5	21.5*21.5	800~2500	31~37	27~94	0.17	4,785	181
	CIM-22-57-70-36-AC40	22.0	28*28	990~3000	31~37	33~113	0.16	5,940	181
	CLM-22-57-70-36-AC40	22.0	28*28	1050~3500	31~37	35~131	0.14	6,370	183
	CXM-22-57-70-54-AC40	22.0	28*28	1050~3500	48~55	54~196	0.12	9,390	177
6500K	CGM-22-57-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.11	13,915	172
	CXM-32-57-70-54-AC40	32.8	38*38	2400~5000	48~55	122~280	0.07	21,040	174
	CGM-14-65-70-36-AC40	14.5	19*19	900~2300	31~37	30~86	0.24	5,075	167
	CXM-18-65-70-36-AA40	18.0	21.5*21.5	800~2500	31~37	27~94	0.21	4,750	177
	CIM-22-65-70-36-AC40	22.0	28*28	990~3000	31~37	33~113	0.20	5,900	178
6500K	CLM-22-65-70-36-AC40	22.0	28*28	1050~3500	31~37	35~131	0.19	6,330	180
	CXM-22-65-70-54-AC40	22.0	28*28	1050~3500	48~55	54~196	0.17	9,330	178
	CGM-22-65-70-54-AC40	22.0	28*28	1600~4000	48~55	82~224	0.15	13,820	170
	CXM-32-65-70-54-AC40	33.0	38*38	2400~5000	48~55	122~280	0.11	20,900	170

Custom Colors

1800K & 3000K (Meat retail lighting)



Product	Current (mA)	Power (W)	CCT (K)	CRI (Ra)
CLM-9	240~540	8.16~20	1800	70
CLM-14	500~1260	17~47	1800	70
CXM-14	720~1440	24.5~54	1800	70
CXM-18	900~1800	30.6~64	1800	70
CLM-22	1100~2200	37~82	1800	70



Product	Current (mA)	Power (W)	CCT (K)	CRI (Ra)
CLM-9	240~540	8.16~20	3000	70
CLM-14	500~1260	17~47	3000	70
CXM-14	720~1440	24.5~54	3000	70
CXM-18	900~1,00	30.6~64	3000	70
CLM-22	1100~2200	37~82	3000	70

2400K (Upscale Hotel & Bread lighting)



Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI _{BB15}	Rf	Rg	Lumen (lm)
CXM-6-24-90-36-AA30	6.3	150-650	5.2~11.8	92	90	98	91	100	525
CHM--9-24-90-36-XD20	9.6	360-960	12.2~37.4	92	90	98	91	100	1,265
CIM-14-24-90-36-AC30	14.3	450~1080	15~40	92	90	98	91	100	1,745
CXM-14-24-90-36-AC30	14.3	720~1440	24.5~54	92	90	98	91	100	2,700
CLM-22-24-90-36-AC30	22.0	1100~2200	38~82	92	90	98	91	100	4,310

3200K (Museum & Natural atmosphere lighting)



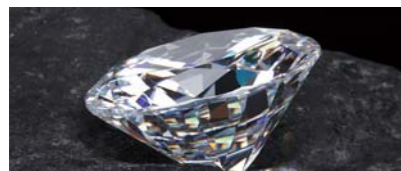
Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI _{BB15}	Rf	Rg	Lumen (lm)
CXM-6-32-95-36-AA30	6.3	150~325	5.2~11.8	83	95	102	93	100	555
CHM-9-32-95-36-XD20	9.6	360~960	12.2~37.4	83	95	102	93	100	1,335
CXM-11-32-95-36-AA30	11.7	450~1080	15.2~40.5	83	95	102	93	100	1,800
CXM-14-32-95-36-AA30	14.3	720~1440	24.5~54	83	95	102	93	100	2,850

5600K (Modern home & Hardware lighting)



Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI _{BB15}	Rf	Rg	Lumen (lm)
CXM-6-56-95-36-AA30	6.3	150~325	5.2~11.8	94	95	103	92	100	585
CHM-9-56-95-36-XD20	9.6	360~960	12.2~37.4	94	95	103	92	100	1,415

8000K (Diamond & Platinum lighting)



Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI _{BB15}	Rf	Rg	Lumen (lm)
CXM-6-80-70-36-AA30	6.3	150~325	5.2~11.8	95	70	114	94	102	795
CHM-9-80-70-36-XD20	9.6	360~960	12.2~37.4	95	70	114	94	102	1,920

Warm Dimming

Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Size (mm)	Part Number	CCT (K)	Typical lumens @Tj=85 C	CRI (Ra)
CDM-6	300~440	18	5.5~8.5	6.8	12*15	CDM-6-3018-90-18-DW01	3000K-1800K	460	97
						CDM-6-4027-90-18-DW01	4000K-2700K	530	92
CDM-9	300~440	36	12~14.5	9.5	12*15	CDM-9-3018-90-36-DW01	3000K-1800K	880	97
						CDM-9-4027-90-36-DW01	4000K-2700K	1,000	92
CDM-14	600~800	36	24~32.5	15.5	20*24	CDM-14-3018-90-36-DW01	3000K-1800K	1,780	97
						CDM-14-4027-90-36-DW01	4000K-2700K	2,080	92
CDM-18	900~1080	36	32.5~50	16.8	20*24	CDM-18-3018-90-36-DW01	3000K-1800K	2,690	97
						CDM-18-4027-90-36-DW01	4000K-2700K	3,140	92

CCT Tunable

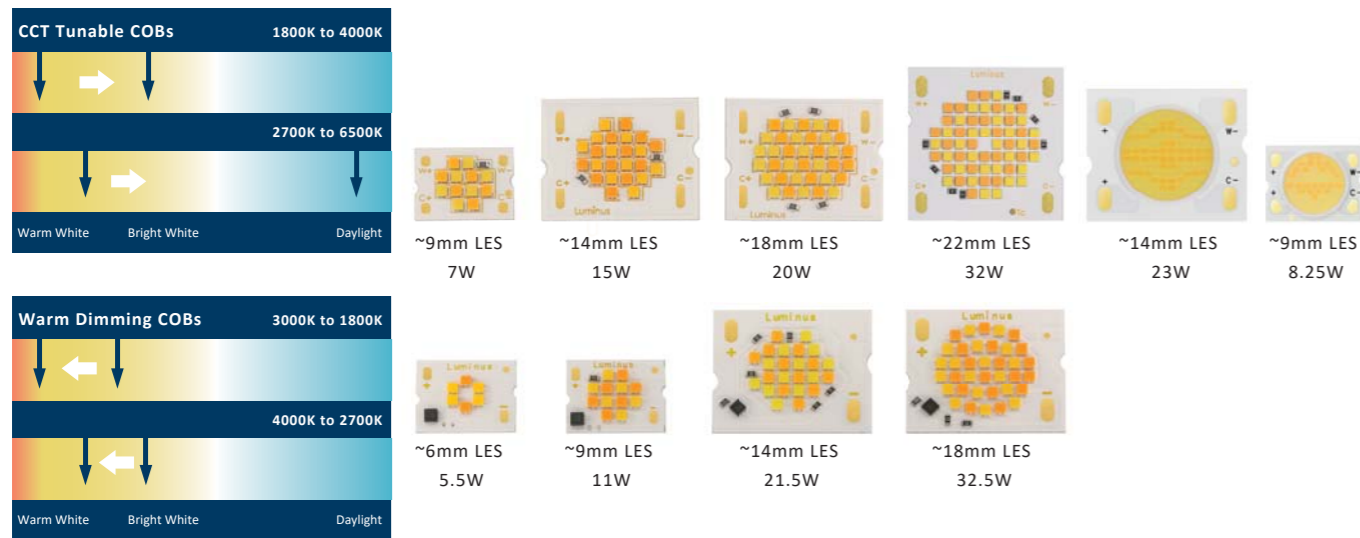
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Size (mm)	Part Number	CCT of Cool White	Typical lumens @Tj=85 C	CCT of Warm White	Typical lumens @Tj=85 C	CRI (Ra)
CTM-9	200~220	36	7~9	9.5	12*15	CTM-9-4018-90-36-TW01	4000K	700	1800K	480	90
						CTM-9-6527-90-36-TW01	6500K	700	2700K	640	90
CTM-14	400~440	36	15~18	14.5	20*24	CTM-14-4018-90-36-TW01	4000K	1400	1800K	960	90
						CTM-14-6527-90-36-TW01	6500K	1400	2700K	1,280	90
CTM-18	550~660	36	20~27	17.5	20*24	CTM-18-4018-90-36-TW01	4000K	2000	1800K	1,370	90
						CTM-18-6527-90-36-TW01	6500K	2000	2700K	1,800	90
CTM-22	875~1100	36	32~45	22	28*28	CTM-22-4018-90-36-TW01	4000K	3200	1800K	2,180	90
						CTM-22-6527-90-36-TW01	6500K	3200	2700K	2,870	90
Gen 2	250~450	33	8.25~17	9.3	12*15	CTM-9-6527-90-36-TWD2	6500K	1100	2700K	940	90
						700~900	33	23~34	13.7	20*24	CTM-14-6527-90-36-TWD2

Salud CCT Tunable with MR 0.97 and 0.33

Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Size (mm)	Part Number	CCT of Cool White	Typical lumens @Tj=85 C	CCT of Warm White	Typical lumens @Tj=85 C	CRI (Ra)
CTM-9	200~220	37	7~9	9.5	12*15	CTM-9-5022-90-36-TW01	5000K	675	2200K	590	90
CTM-14	400~440	37	15~18	14.5	20*24	CTM-14-5022-90-36-TW01	5000K	1350	2200K	1,180	90
CTM-18	550~660	37	20~27	17.5	20*24	CTM-18-5022-90-36-TW01	5000K	1930	2200K	1,685	90
CTM-22	850~1100	37	32~45	22	28*28	CTM-22-5022-90-36-TW01	5000K	3060	2200K	2,675	90

Dynamic COBs

- Uniform and efficient
- Easy to implement
- CCT Tunable and Warm Dimming light sources for directional lighting in hospitality, retail, and residential applications



High Density Gen 4

- Compliments available solutions
- Higher lumen density optimized for spot lighting applications
- Optics for High Center Beam Candle Power (CBCP)



CHM-4										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
200~500	35.3	7.5~13.7	4.5	1.7	13.5*13.5	CHM-4-22-90-36-BH40	2200	90	530	75
						CHM-4-24-90-36-BH40	2400	90	600	85
						CHM-4-27-80-36-BH40	2700	80	720	102
						CHM-4-27-90-36-BH40		90	630	89
						CHM-4-27-95-36-BH40		95	525	74
						CHM-4-27-90-36-BH42	90	615	87	
						CHM-4-30-80-36-BH40	3000	80	755	107
						CHM-4-30-90-36-BH40		90	655	93
						CHM-4-30-95-36-BH40		95	565	80
						CHM-4-30-90-36-BH42	90	640	91	
						CHM-4-30-95-36-BH42	95	550	78	
						CHM-4-35-80-36-BH40	3500	80	800	113
						CHM-4-35-90-36-BH40		90	655	93
						CHM-4-35-95-36-BH40		95	550	78
						CHM-4-35-90-36-BH42	90	640	91	
						CHM-4-40-80-36-BH40	4000	80	775	110
						CHM-4-40-90-36-BH40		90	705	100
						CHM-4-40-95-36-BH40		95	620	88
						CHM-4-50-80-36-BH40	5000	80	790	112
						CHM-4-50-90-36-BH40		90	705	100
CHM-4-50-95-36-BH40	95	620	88							

CHM-4										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
400~1000	17.6	7.5~13.7	4.5	1.7	13.5*13.5	CHM-4-22-90-18-BH40	2200	90	530	75
						CHM-4-24-90-18-BH40	2400	90	600	85
						CHM-4-27-80-18-BH40	2700	80	720	102
						CHM-4-27-90-18-BH40		90	630	89
						CHM-4-27-95-18-BH40		95	525	75
						CHM-4-27-90-18-BH42	90	615	87	
						CHM-4-30-80-18-BH40	3000	80	755	107
						CHM-4-30-90-18-BH40		90	655	93
						CHM-4-30-95-18-BH40		95	565	80
						CHM-4-30-90-18-BH42		90	640	91
						CHM-4-30-95-18-BH42	95	550	78	
						CHM-4-35-80-18-BH40	3500	80	800	114
						CHM-4-35-90-18-BH40		90	655	93
						CHM-4-35-95-18-BH40		95	550	78
						CHM-4-35-90-18-BH42	90	640	91	
						CHM-4-40-80-18-BH40	4000	80	775	110
						CHM-4-40-90-18-BH40		90	705	100
						CHM-4-40-95-18-BH40		95	620	88
						CHM-4-50-80-18-BH40	5000	80	790	112
						CHM-4-50-90-18-BH40		90	705	100
CHM-4-50-95-18-BH40	95	620	88							

CHM-6										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
800~1500	17.6	15.2~27.2	6.3	1.0	13.5*13.5	CHM-6-22-90-18-BH40	2200	90	1,165	88
						CHM-6-24-90-18-BH40	2400	90	1,240	94
						CHM-6-27-80-18-BH40	2700	80	1,490	113
						CHM-6-27-90-18-BH40		90	1,300	98
						CHM-6-27-95-18-BH40		95	1,085	82
						CHM-6-27-90-18-BH42	90	1,260	95	
						CHM-6-30-80-18-BH40	3000	80	1,560	118
						CHM-6-30-90-18-BH40		90	1,355	103
						CHM-6-30-95-18-BH40		95	1,170	89
						CHM-6-30-90-18-BH42		90	1,315	100
						CHM-6-30-95-18-BH42	95	1,135	86	
						CHM-6-35-80-18-BH40	3500	80	1,655	125
						CHM-6-35-90-18-BH40		90	1,350	102
						CHM-6-35-95-18-BH40		95	1,300	98
						CHM-6-35-90-18-BH42	90	1,310	99	
						CHM-6-40-80-18-BH40	4000	80	1,605	122
						CHM-6-40-90-18-BH40		90	1,465	111
						CHM-6-40-95-18-BH40		95	1,285	97
						CHM-6-50-80-18-BH40	5000	80	1,635	124
						CHM-6-50-90-18-BH40		90	1,490	113
CHM-6-50-95-18-BH40	95	1,290	98							

CHM-6										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
400~750	35.3	15.2~27.2	6.3	1.0	13.5*13.5	CHM-6-22-90-36-BH40	2200	90	1,165	83
						CHM-6-24-90-36-BH40	2400	90	1,240	88
						CHM-6-27-80-36-BH40	2700	80	1,490	106
						CHM-6-27-90-36-BH40		90	1,300	92
						CHM-6-27-95-36-BH40		95	1,085	77
						CHM-6-27-90-36-BH42	90	1,260	89	
						CHM-6-30-80-36-BH40	3000	80	1,560	110
						CHM-6-30-90-36-BH40		90	1,355	96
						CHM-6-30-95-36-BH40		95	1,170	83
						CHM-6-30-90-36-BH42		90	1,315	93
						CHM-6-30-95-36-BH42	95	1,135	80	
						CHM-6-35-80-36-BH40	3500	80	1,655	117
						CHM-6-35-90-36-BH40		90	1,350	96
						CHM-6-35-95-36-BH40		95	1,300	92
						CHM-6-35-90-36-BH42	90	1,310	93	
						CHM-6-40-80-36-BH40	4000	80	1,605	114
						CHM-6-40-90-36-BH40		90	1,465	104
						CHM-6-40-95-36-BH40		95	1,285	91
						CHM-6-50-80-36-BH40	5000	80	1,635	116
						CHM-6-50-90-36-BH40		90	1,490	106
CHM-6-50-95-36-BH40	95	1,290	91							

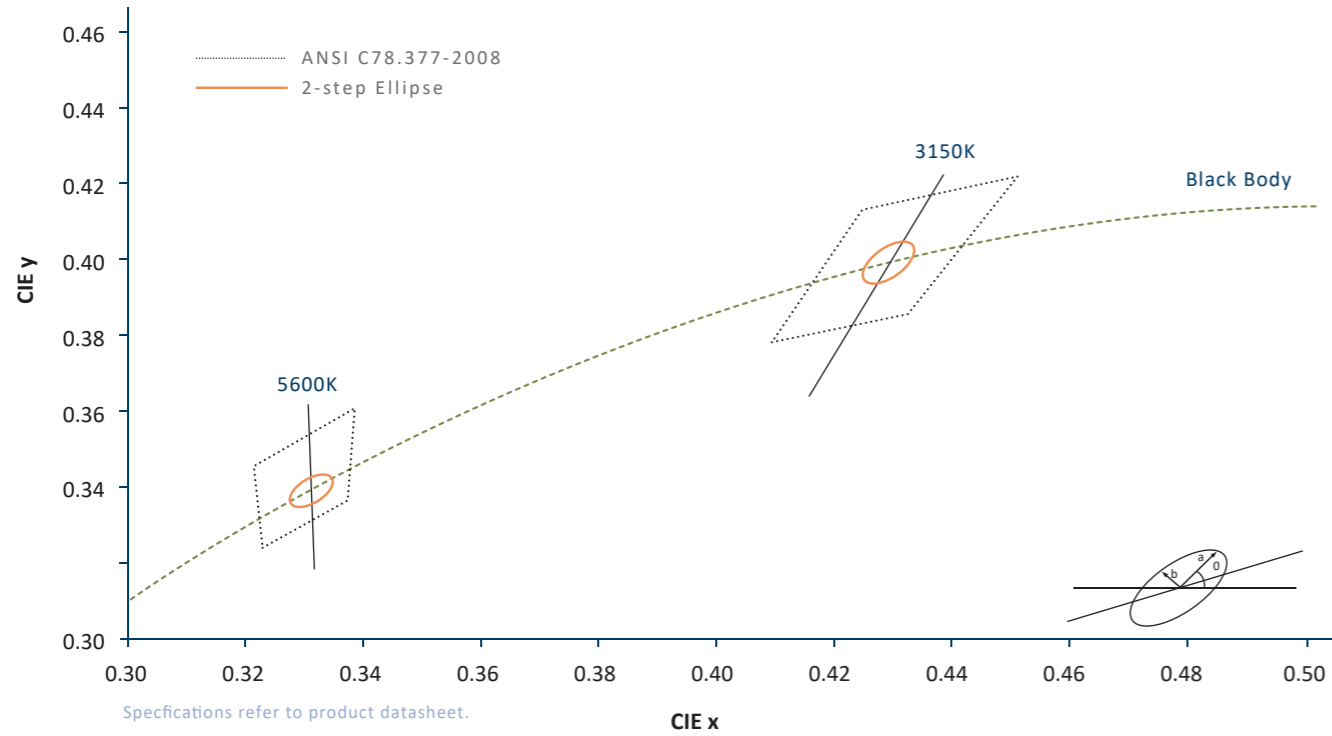
CHM-9										
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
700~1500	34.8	24.3~57	9.0	0.5	19*19	CHM-6-22-90-18-BH40	2200	90	1,165	88
						CHM-6-24-90-18-BH40	2400	90	1,240	94
						CHM-6-27-80-18-BH40	2700	80	1,490	113
						CHM-6-27-90-18-BH40		90	1,300	98
						CHM-6-27-95-18-BH40		95	1,085	82
						CHM-6-27-90-18-BH42	90	1,260	95	
						CHM-6-30-80-18-BH40	3000	80	1,560	118
						CHM-6-30-90-18-BH40		90	1,355	103
						CHM-6-30-95-18-BH40		95	1,170	89
						CHM-6-30-90-18-BH42		90	1,315	100
						CHM-6-30-95-18-BH42	95	1,135	86	
						CHM-6-35-80-18-BH40	3500	80	1,655	125
						CHM-6-35-90-18-BH40		90	1,350	102
						CHM-6-35-95-18-BH40		95	1,300	98
						CHM-6-35-90-18-BH42	90	1,310	99	
						CHM-6-40-80-18-BH40	4000	80	1,605	122
						CHM-6-40-90-18-BH40		90	1,465	111
						CHM-6-40-95-18-BH40		95	1,285	97
						CHM-6-50-80-18-BH40	5000	80	1,635	124
						CHM-6-50-90-18-BH40		90	1,490	113
CHM-6-50-95-18-BH40	95	1,290	98							

Studio COBs

- TV and Studio lighting
- Traditional Tungsten and HMI Fresnel Replacement
- Key Lights Color Point; 3150K and 5600K
- Outstanding TLCI >95; High CRI >95



Chromaticity Bin Structure:

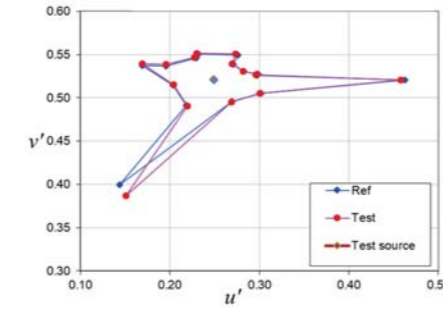


Studio											
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (Tj=85°C)	Efficacy LPW
CVM-27 Gen 3	2000~3000	54	102~165	26.5	0.15	31.5*31.5	CVM-27-31-95-54-AC32	3150	95	12,140	119
							CVM-27-56-95-54-AC30	5600	95	12,900	126
CVM-32	5000~6000	55	214~340	32.8	0.1	38*38	CVM-32-31-95-54-TC40	3150	95	28,100	131
							CVM-32-56-95-54-TC42	5600	95	30,000	140
CVM-45	5000~10000	57	285~600	45	0.1	55*55	CVM-45-31-95-60-TA40	3150	95	32,700	115
							CVM-45-56-95-60-TA42	5600	95	35,000	123

Parameter Annotation

GAI:

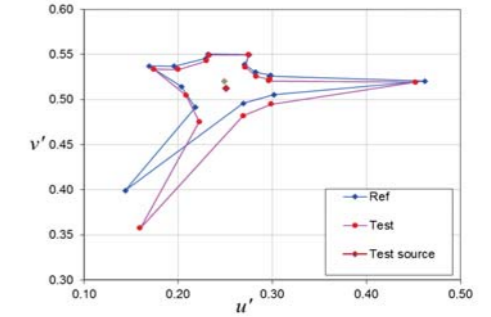
- Color Vivid
- Luminus 3000K CRI95 GAI_BB₁₅ Calculation



- CCT:3040K
- CRI:95
- R9:83
- CQS:94
- GAI_BB₁₅:104



- Luminus 3000K CRI90 Sensus GAI_BB₁₅ Calculation

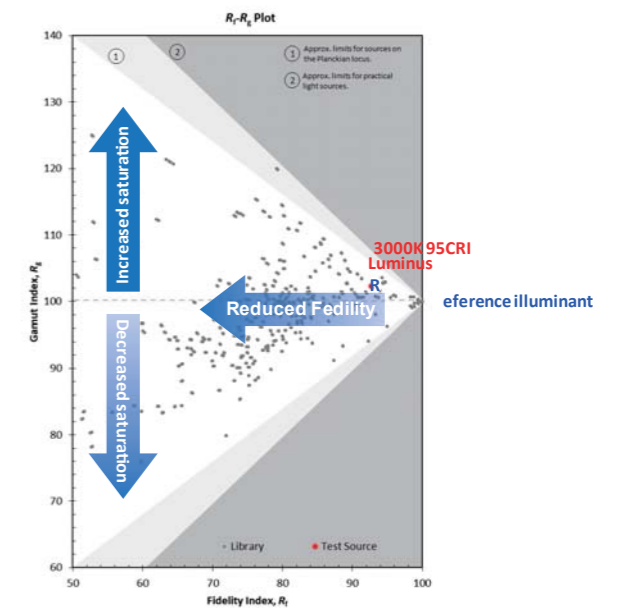


- CCT:3046K
- CRI:92
- R9:64
- CQS:88
- GAI_BB₁₅:118



TM-30-15:

- IES New Color Rendering Standard
- 99 color samples
 - Uniform color space coverage
 - Spectral sensitivity neutral
 - Variety of real objects
- Fidelity, Gamut, Graphical
- 0~100 scale (fidelity)



Recommended CCTs for Applications

• For your actual applications, please feel free to contact us for more suitable recommendations.

<p>Light Color 1800K Custom Colors</p> <p>Warm White Bright White Daylight</p>	<p>Raw Beef</p>	<p>Lean Meat</p>		
<p>Light Color 2200K Outdoor</p> <p>Warm White Bright White Daylight</p>	<p>Street Light</p>	<p>5-Star Hotels in Europe</p>		
<p>Light Color 2400K Custom Colors</p> <p>Warm White Bright White Daylight</p>	<p>Bakery Displays</p>	<p>Gold Jewellery</p>	<p>5-Star Hotels in China</p>	
<p>Light Color 2700K Hospitality, CubePower</p> <p>Warm White Bright White Daylight</p>	<p>Private Home / Village</p>	<p>Hospitality</p>	<p>Club</p>	
<p>Light Color 3000K Sensus, Salud</p> <p>Warm White Bright White Daylight</p>	<p>Fast Fashion</p>	<p>High End Fashion</p>	<p>Shopping Mall</p>	
<p>Light Color 3000K Sensus</p> <p>Warm White Bright White Daylight</p>	<p>Casual Outfits for Men</p>	<p>Business Attire for Women</p>	<p>Sports & Fitness Clothing</p>	
<p>Light Color 3000K Extreme Sensus 奇点</p> <p>Warm White Bright White Daylight</p>	<p>Fruit and Vegetables</p>	<p>Atmosphere with Pink Color Tone</p>	<p>Atmosphere with Hyacinthine Color Tone</p>	<p>Marbled Pork</p>

<p>Light Color 3200K Custom Colors</p> <p>Warm White Bright White Daylight</p>	<p>Museum</p>	<p>Chinese Crystal</p>	<p>Natural Atmosphere</p>
<p>Light Color 3200K Custom Colors</p> <p>Warm White Bright White Daylight</p>	<p>Ceramic Art</p>	<p>Perfume Display for Women</p>	<p>Fashion and Luxury Brand</p>
<p>Light Color 3500K Hospitality</p> <p>Warm White Bright White Daylight</p>	<p>Stylish Formal Suits</p>	<p>Classic Car Showroom</p>	<p>Jade Jewelry</p>
<p>Light Color 4000K Ultra-High Density</p> <p>Warm White Bright White Daylight</p>	<p>Nephrite Jewelry</p>	<p>Crystal Decorations</p>	<p>Perfume Display for Men</p>
<p>Light Color 5000K Ultra-High Density, Salud</p> <p>Warm White Bright White Daylight</p>	<p>Ceramics</p>	<p>Cleaning Tool Room</p>	<p>Bathroom</p>
<p>Light Color 5600K Custom Colors</p> <p>Warm White Bright White Daylight</p>	<p>Modern Home</p>	<p>Hardware Arts</p>	<p>Hardware Sanitary</p>
<p>Light Color 6500K CubePower Outdoor</p> <p>Warm White Bright White Daylight</p>	<p>Office</p>	<p>Gym</p>	
<p>Light Color 8000K Custom Colors</p> <p>Warm White Bright White Daylight</p>	<p>Diamond</p>	<p>Platinum</p>	

Ecosystem Solution: Cuvée Drivers

- Luminus is the exclusive provider of Cuvée Systems drivers, and Luminus customers can enjoy peace of mind with a combined 5 Year System Warranty on Cuvée drivers when paired with our Gen 4 COBs.



QR code for Cuvée Drivers



Luminus Combined System Warranty of 5 years



Two channel driver and dimmer switch for all Luminus CCT Tunable COBs

DMR Driver Series	CTM-9 (200mA)	CTM-14 (400mA)	CTM-18 (550mA)	CTM-22 (870mA)
 • Output power = 42W • CC Programmable 150mA – 1050mA • Vf = 12V – 40V				
SDW 2 channel Dimmer • Dual 0-10V • Compatible with DMR or other 0-10V drivers	✓	✓	✓	✓

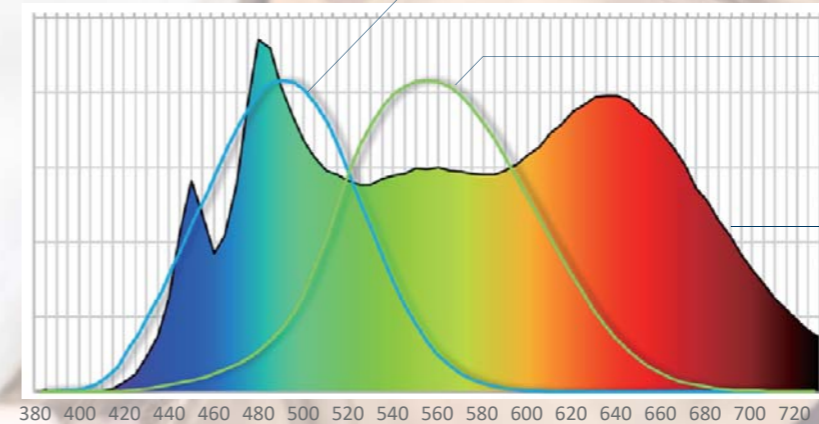
- Want to learn more about how Luminus COBs match with Cuvée drivers? Please refer to our website: <https://www.luminus.com/resource/warranty-info>

LUMINUS COB LED Packages Matched with CUVÉE SYSTEMS Drivers

Product	Form Factor	Wattage (W)	Current (mA)	AC Input Voltage (V)	Nominal DC Output Voltage (V)	Compatible Dim-to-Warm Dynamic COBs	Compatible Gen4 COBs	Dimming Compatibility
KAW-6E18IAD/R	Rectangular	6	180	230	36	n/a	CXM-6,CIM-9	triac
KAW-6E35IAD/R	Rectangular	6	350	230	18	CDM-6	18V CXM-6	triac
KAW-10E28IAD/R	Rectangular	10	280	230	36	CDM-9	CXM-6,CIM-9,CLM-9	triac
KAW-12E35IAD/R	Rectangular	12	350	230	36	CDM-9	CIM-9,CLM-9,CXM-9	triac
DRW-A4D015/1-CC350-42-350(BF)	Rectangular	15	350	120-277	36	CDM-9	CIM-9,CLM-9,CXM-9	leading and trailing edge, 0/1-10V, PWM
DRW-A4D021/1-CC500-42-500(BF)	Rectangular	21	500	120-277	36	CDM-14	CLM-9, CXM-9, CIM-14, CLM-14	leading and trailing edge, 0/1-10V, PWM
DRW-A4D030/1-CC700-42-700(BF)	Rectangular	30	700	120-277	36	CDM-18	CXM-9, CIM-14, CLM-14, CXM-14	leading and trailing edge, 0/1-10V, PWM

Salud™: Mid Power LEDs

- Specified for melanopic / photopic ratios (MRs)
- Deliver light that keeps people healthy, alert, and productive.



Melanopic (circadian) response curve

Photopic (vision) response curve

Salud technology spectrum with enhanced cyan for higher M/P ratios and enriched 660nm content for high R9 and natural skin tones

Salud™ mid-power LEDs for Human Centric Lighting

Nominal CCT	Typ MR	Minimum CRI	Typ R9	Typical Flux
3000K	0.68	90	95	33
3500K	0.72	90	75	36
4000K	0.80	90	65	38
5000K	0.96	90	85	38

Mid Power & XNOVA Cube™ LED Products

Product	Current (mA)	Voltage (V)	Power (W)	Lumen Typ. 3000K, 80CRI	Efficacy Typ. lm/W 3000K, 80CRI
MP-1616-1103	150	3	~0.5	59	124
MP-1616-2103	150	6	~1	118	131
MP-2016-1100	60	3	~0.2	27	150
MP-2835-12D2	65	2.7	~0.2	35	200
MP-3014-1100	60	2.85	~0.2	29	170
MP-3030-110H	65	2.9	~0.2	33	181
MP-3030-120H	65	2.7	~0.2	37	210
MP-3030-122H	65	2.8	~0.2	35	200
MP-3030-210H	150	6	~1	140	156
MP-5050-240H	640	6.2	~4	630	159
MP-5050-250R	640	5.95	~4	640	168
MP-5050-810H	200	24.5	~5	785	164

Applications Engineering Support

- Luminus provides 5 kinds of online resources to commit global applications support.
 - 📄 Application Notes: Guidelines when handling Luminus's various product lines
 - 📁 Design Files: Mechanical model, ASAP, LightTools, TracePro and Zemax.
 - 📦 Development Kits: Available for purchase to evaluate a wide range of configurations and operating modes
 - 🔄 Ecosystem Solutions: Luminus has partnered with experts in developing and manufacturing LED components and light engines in an effort to assist our customers in expediting time to market.
 - 📊 Lumen Calculator: To aid in the selection of an optimized solution which fits within the constraints and requirements of each customer's application. <https://www.luminus.com/resource/application-notes>



Applications Engineering Support

- Would like to dig more treasures in Luminus?
- Please don't hesitate to visit our website. <https://www.luminus.com/resource/calculator>

