2025

Illumination Catalog

LUMINUS

Improving Life with Photons™

Luminus Company Introduction

Improving Life with Photons

Luminus Devices develops and markets solid-state lighting solutions (SSL) to help its customers migrate from conventional lamp technologies to long-life and energy-efficient LED illumination. Originally founded in 2002 to commercialize technology developed at the Massachusetts Institute of Technology (MIT), Luminus has evolved into a global leader by combining MIT innovation with cutting-edge developments from Silicon Valley. Luminus creates LEDs that enable customers to improve lives across disciplines and in homes and businesses. The company expanded its portfolio in 2024 with cutting-edge green and blue TO56 laser diodes for advanced display, biometric, and sensing applications. In 2025, Luminus became the worldwide sales channel for APC Electronics, a leader in silicon carbide technologies, further expanding market reach and technological capabilities. Luminus products are used in various types of medical equipment, UV solutions for disinfection, high color rendering white for healthy illumination, full spectrum horticulture, infrared for security, projection for education and entertainment, and countless other applications.

- Headquartered in: Silicon Valley (Sunnyvale, CA, USA)
- Branches in: Xiamen (China), Shenzhen (China), Hsinchu (Taiwan), Penang (Malaysia) Eindhoven (The Netherlands)
- Leadership in very high-power LEDs with exceptional light beam quality
- A broad range of white and monochromatic solutions for general illumination and specialty lighting markets
- Global applications support
- Comprehensive portfolio spanning from ultraviolet to infrared with applications across medical, architectural, entertainment, industrial, and consumer markets

Why Luminus?

- Industry-leading LEDs from Ultraviolet to Infrared with input powers from 1W to over 200W
- High-intensity light sources (up to 7.5A/mm²) replacing traditional lamp technologies such as xenon and metal halides
- Superior optical performance with best-in-class directionality and artifact-free light output
- Advanced spectrum control for human health, plant growth, and specialized applications
- Custom spectral solutions available for unique requirements

General Lighting & Interior Design

- High-quality illumination with up to 161 LPW (lumens per watt) efficiency
- Lux COB series with 90-95+ CRI for beautiful directional lighting solutions
- 6th Generation COBs with excellent color consistency
- Smooth White technology offering “naturalness” for human-centric lighting
- Wide selection of CCTs (2200K-6500K) for all interior design applications
- Hospitality-specific COBs with warm CCTs and high-quality skin tone rendering

Healthcare & Human Wellness

- Salud™ Technology optimized for human health with specified Melanopic/ Photopic ratios
- Medical and life sciences instrument illumination with high color accuracy
- Enhanced cyan spectrum for better health and productivity
- Specialized LEDs for hospitals and elderly care environments

Commercial & Retail Environments

- Custom color temperatures (1800K & 3000K) for optimal meat and food retail display
- Sensus™ technology offering purer white, brighter colors for fashion retail
- 2400K options specifically designed for upscale hotels and bakery displays
- 3200K solutions optimized for museums and creating natural atmosphere
- Dynamic COBs with warm dimming capabilities for hospitality settings
- Shop lighting solutions with exceptional color rendering (Ra>90)

Industrial & Architectural

- High-intensity specialty LEDs up to 6.5 A/mm²
- SST-12 patented round LED emitters for superior optical efficiency
- Ultra-precise beam control for architectural highlighting and spot lighting
- Machine vision and industrial inspection illumination
- SST and SFT series with superior directionality and throw distance
- Indoor and outdoor directional lighting with exceptional color quality

Contents

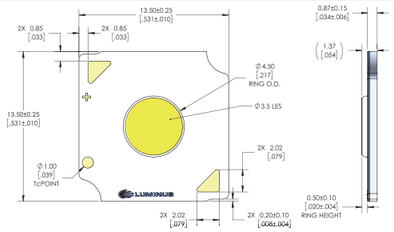
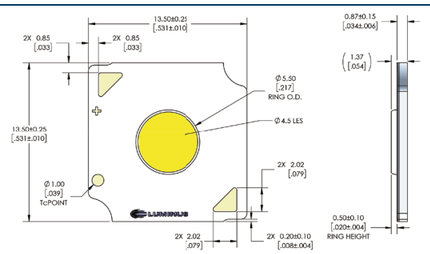
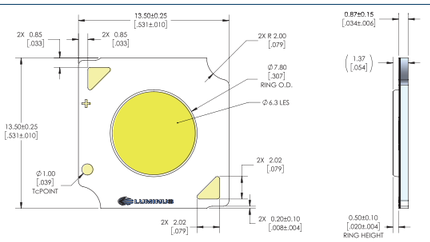
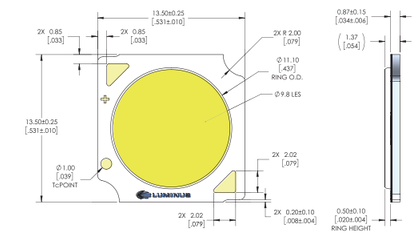
Product Nomenclature

CXM-6-27-80-36-AA00

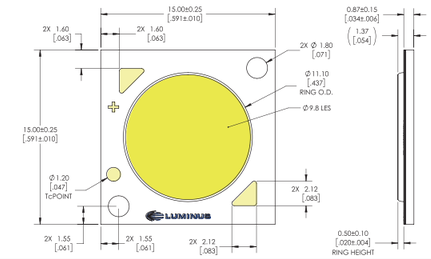
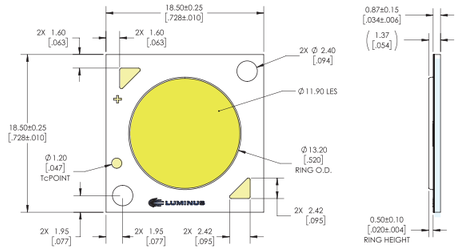
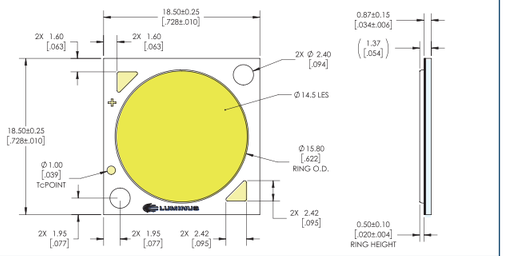
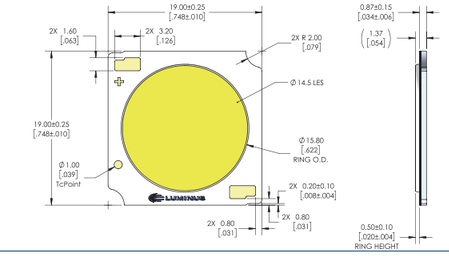
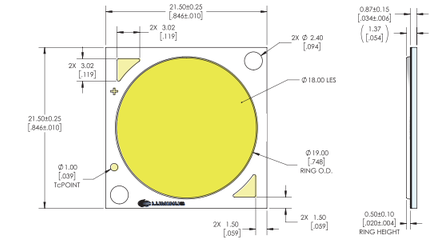
- Product Family:CXM
- LES:6 mm
- CCT:2700K
- CRI:80
- Voltage:36 V
- Package Configurator:AA00

COB Product Size

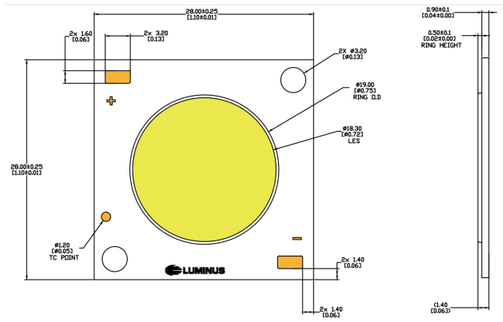
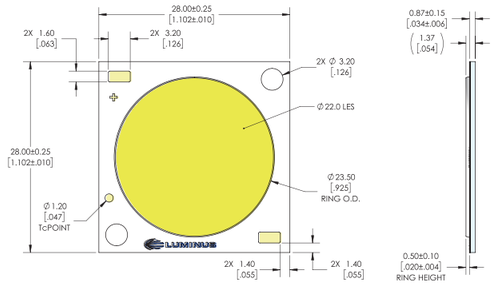
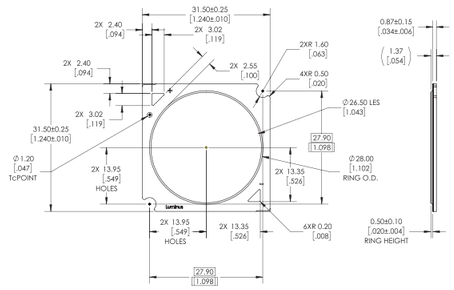
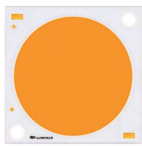
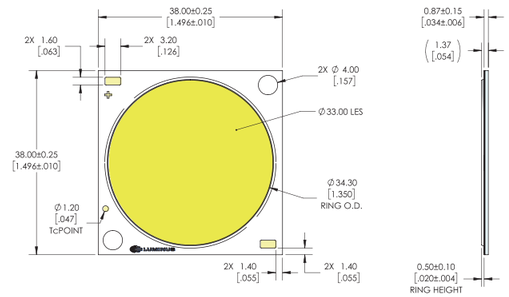
- Unless otherwise specified, tolerance is ± 0.3mm
- Luminus designed a complex, unique phosphor ring. The Generation 4 LES diameter is defined consistent with industry practices and aligned to optical characteristics. The LES diameter is not measured at the surface of the phosphor layer. Please use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

Product Family	Size(mm)	LES(mm)	Mechanical Dimensions
CXM-3-AC	 13.5 × 13.5	3.5	
CXM-4-AC	 13.5 × 13.5	4.5	
CXM-6-AC	 13.5 × 13.5	6.3	
CXM-9-AC CLM-9-AC CIM-9-AC	 13.5 × 13.5	9.8	

COB Product Size

Product Family	Size(mm)	LES(mm)	Mechanical Dimensions
CXM-9-AA CLM-9-AA	 15.0 × 15.0	9.8	
CXM-11-AA	 18.5 × 18.5	11.9	
CXM-14-AA CLM-14-AA	 18.5 × 18.5	14.5	
CIM-14-AC CLM-14-AC CXM-14-AC CGM-14-AC	 19.0 × 19.0	14.5	
CXM-18-AA	 21.5 × 21.5	18.0	

COB Product Size

Product Family	Size(mm)	LES(mm)	Mechanical Dimensions
CXM-18 Lux	 28.0 × 28.0	18.0	
CIM-22-AC CLM-22-AC CXM-22-AC CGM-22-AC	 28.0 × 28.0	22.0	
CXM-27-AB	 31.5 × 31.5	26.5	
CXM-32-AC	 38.0 × 38.0	33.0	

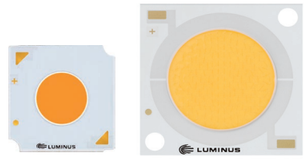
Lux COB Series

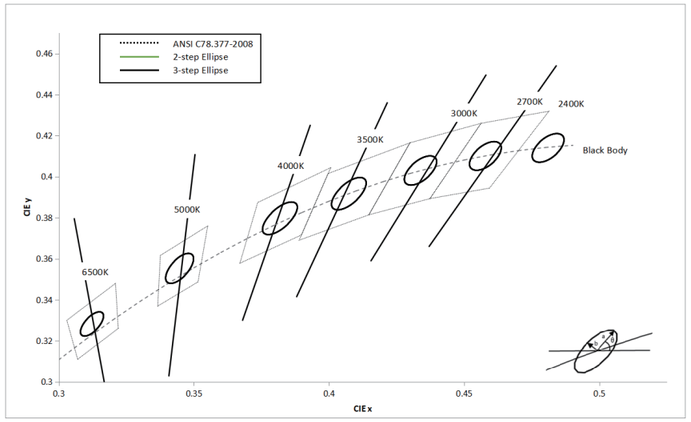
Description:

The Luminus LUX COB series is engineered with narrow band red phosphor technology to achieve remarkably high efficacy (lumens/W) with high color quality such as 90 or 95 CRI minimum, high R9, and outstanding TM-30 values. Customers can create beautiful directional lighting solutions with LUX in a wide range of light emitting surface (LES) options and power ranges.

Features:

- Lumen: 505 ~ 8,880 lm (Tj=85°C)
- Efficacy: 161 LPW (3000K/90 CRI, Tj=85°C)
- CCT: 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6500K
- CRI: 90, 95 (min)
- SCDM: < 3 step
- Max Tc: 105°C
- Max Tj: 140°C
- Note: CLM-9/CXM-9/CXM-11 TC/TA version available





Applications:

- Spotlights/Track Lights
- Architectural and Specialty
- Downlights
- Shop Lighting
- Hospitality Lighting

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 ~ 220	33.3	4.0 ~ 7.7	4.5	1.43	13.5 × 13.5	2400	90	CXM-4-24-90-36-TE50	465	116
						2700	90	CXM-4-27-90-36-TE50	495	124
							95	CXM-4-27-95-36-TE50	455	114
						3000	90	CXM-4-30-90-36-TE50	505	126
							95	CXM-4-30-95-36-TE50	470	118
						3500	90	CXM-4-35-90-36-TE50	530	133
							95	CXM-4-35-95-36-TE50	470	118
						4000	90	CXM-4-40-90-36-TE50	530	133
							95	CXM-4-40-95-36-TE50	490	123
						5000	90	CXM-4-50-90-36-TE50	525	131
							95	CXM-4-50-95-36-TE50	495	124
						6500	90	CXM-4-65-90-36-TE50	515	129

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 ~ 220	33.3	5.0 ~ 7.5	6.3	1.0	13.5 × 13.5	2400	90	CXM-6-24-90-36-TE50	710	142
						2700	90	CXM-6-27-90-36-TE50	760	152
							95	CXM-6-27-95-36-TE50	690	138
						3000	90	CXM-6-30-90-36-TE50	770	154
							95	CXM-6-30-95-36-TE50	715	143
						3500	90	CXM-6-35-90-36-TE50	805	161
							95	CXM-6-35-95-36-TE50	720	144
						4000	90	CXM-6-40-90-36-TE50	805	161
							95	CXM-6-40-95-36-TE50	750	150
						5000	90	CXM-6-50-90-36-TE50	800	160
							95	CXM-6-50-95-36-TE50	755	151
						6500	90	CXM-6-65-90-36-TE50	785	157

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 ~ 440	32.8	8.2 ~ 15.0	9.8	0.5	13.5 × 13.5	2400	90	CLM-9-24-90-36-TC50	1,195	146
						2700	90	CLM-9-27-90-36-TC50	1,280	156
							95	CLM-9-27-95-36-TC50	1,165	142
						3000	90	CLM-9-30-90-36-TC50	1,300	159
							95	CLM-9-30-95-36-TC50	1,210	148
						3500	90	CLM-9-35-90-36-TC50	1,360	166
							95	CLM-9-35-95-36-TC50	1,215	148
						4000	90	CLM-9-40-90-36-TC50	1,360	166
							95	CLM-9-40-95-36-TC50	1,265	154
						5000	90	CLM-9-50-90-36-TC50	1,345	164
							95	CLM-9-50-95-36-TC50	1,275	155
						6500	90	CLM-9-65-90-36-TC50	1,325	162

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 ~ 440	32.8	8.2 ~ 15.0	9.8	0.5	15.0 × 15.0	2400	90	CLM-9-24-90-36-TA50	1,195	146
						2700	90	CLM-9-27-90-36-TA50	1,280	156
							95	CLM-9-27-95-36-TA50	1,165	142
						3000	90	CLM-9-30-90-36-TA50	1,300	159
							95	CLM-9-30-95-36-TA50	1,210	148
						3500	90	CLM-9-35-90-36-TA50	1,360	166
							95	CLM-9-35-95-36-TA50	1,215	148
						4000	90	CLM-9-40-90-36-TA50	1,360	166
							95	CLM-9-40-95-36-TA50	1,265	154
						5000	90	CLM-9-50-90-36-TA50	1,345	164
							95	CLM-9-50-95-36-TA50	1,275	155
						6500	90	CLM-9-65-90-36-TA50	1,325	162

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 ~ 550	33.2	12.0 ~ 19.0	9.8	0.32	13.5 × 13.5	2400	90	CXM-9-24-90-36-TC50	1,680	141
						2700	90	CXM-9-27-90-36-TC50	1,795	150
							95	CXM-9-27-95-36-TC50	1,640	137
						3000	90	CXM-9-30-90-36-TC50	1,825	153
							95	CXM-9-30-95-36-TC50	1,695	142
						3500	90	CXM-9-35-90-36-TC50	1,910	160
							95	CXM-9-35-95-36-TC50	1,705	143
						4000	90	CXM-9-40-90-36-TC50	1,910	160
							95	CXM-9-40-95-36-TC50	1,775	149
						5000	90	CXM-9-50-90-36-TC50	1,890	158
							95	CXM-9-50-95-36-TC50	1,790	150
						6500	90	CXM-9-65-90-36-TC50	1,860	156

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 ~ 550	33.2	12.0 ~ 19.0	9.8	0.32	15.0 × 15.0	2400	90	CXM-9-24-90-36-TA50	1,680	141
						2700	90	CXM-9-27-90-36-TA50	1,795	150
							95	CXM-9-27-95-36-TA50	1,640	137
						3000	90	CXM-9-30-90-36-TA50	1,825	153
							95	CXM-9-30-95-36-TA50	1,695	142
						3500	90	CXM-9-35-90-36-TA50	1,910	160
							95	CXM-9-35-95-36-TA50	1,705	143
						4000	90	CXM-9-40-90-36-TA50	1,910	160
							95	CXM-9-40-95-36-TA50	1,775	149
						5000	90	CXM-9-50-90-36-TA50	1,890	158
							95	CXM-9-50-95-36-TA50	1,790	150
						6500	90	CXM-9-65-90-36-TA50	1,860	156

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 ~ 660	33.3	15.0 ~ 22.7	11.6	0.29	19.0 × 19.0	2400	90	CXM-11-24-90-36-TC50	2,165	144
						2700	90	CXM-11-27-90-36-TC50	2,310	154
							95	CXM-11-27-95-36-TC50	2,110	141
						3000	90	CXM-11-30-90-36-TC50	2,350	157
							95	CXM-11-30-95-36-TC50	2,185	146
						3500	90	CXM-11-35-90-36-TC50	2,455	164
							95	CXM-11-35-95-36-TC50	2,195	146
						4000	90	CXM-11-40-90-36-TC50	2,455	164
							95	CXM-11-40-95-36-TC50	2,285	152
						5000	90	CXM-11-50-90-36-TC50	2,435	162
							95	CXM-11-50-95-36-TC50	2,305	154
						6500	90	CXM-11-65-90-36-TC50	2,395	160

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 ~ 660	33.3	15.0 ~ 22.7	11.6	0.29	18.5 × 18.5	2400	90	CXM-11-24-90-36-TA50	2,165	144
						2700	90	CXM-11-27-90-36-TA50	2,310	154
							95	CXM-11-27-95-36-TA50	2,110	141
						3000	90	CXM-11-30-90-36-TA50	2,350	157
							95	CXM-11-30-95-36-TA50	2,185	146
						3500	90	CXM-11-35-90-36-TA50	2,455	164
							95	CXM-11-35-95-36-TA50	2,195	146
						4000	90	CXM-11-40-90-36-TA50	2,455	164
							95	CXM-11-40-95-36-TA50	2,285	152
						5000	90	CXM-11-50-90-36-TA50	2,435	162
							95	CXM-11-50-95-36-TA50	2,305	154
						6500	90	CXM-11-65-90-36-TA50	2,395	160

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 ~ 880	33.0	16.5 ~ 30.3	14.5	0.25	19.0 × 19.0	2400	90	CLM-14-24-90-36-TC50	2,450	148
						2700	90	CLM-14-27-90-36-TC50	2,615	158
							95	CLM-14-27-95-36-TC50	2,385	145
						3000	90	CLM-14-30-90-36-TC50	2,660	161
							95	CLM-14-30-95-36-TC50	2,470	150
						3500	90	CLM-14-35-90-36-TC50	2,785	169
							95	CLM-14-35-95-36-TC50	2,485	151
						4000	90	CLM-14-40-90-36-TC50	2,780	168
							95	CLM-14-40-95-36-TC50	2,585	157
						5000	90	CLM-14-50-90-36-TC50	2,755	170
							95	CLM-14-50-95-36-TC50	2,610	158
						6500	90	CLM-14-65-90-36-TC50	2,710	164

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 ~ 990	33.4	24.1 ~ 34.3	14.5	0.23	19.0 × 19.0	2400	90	CXM-14-24-90-36-TC50	3,490	145
						2700	90	CXM-14-27-90-36-TC50	3,730	155
							95	CXM-14-27-95-36-TC50	3,405	142
						3000	90	CXM-14-30-90-36-TC50	3,795	158
							95	CXM-14-30-95-36-TC50	3,525	147
						3500	90	CXM-14-35-90-36-TC50	3,960	165
							95	CXM-14-35-95-36-TC50	3,545	147
						4000	90	CXM-14-40-90-36-TC50	3,960	165
							95	CXM-14-40-95-36-TC50	3,690	153
						5000	90	CXM-14-50-90-36-TC50	3,930	163
							95	CXM-14-50-95-36-TC50	3,720	155
						6500	90	CXM-14-65-90-36-TC50	3,860	161

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 ~ 1,320	32.9	26.5 ~ 46.0	17.5	0.13	28.0 × 28.0	2400	90	CXM-18-24-90-36-TC50	4,140	157
						2700	90	CXM-18-27-90-36-TC50	4,425	168
							95	CXM-18-27-95-36-TC50	4,040	153
						3000	90	CXM-18-30-90-36-TC50	4,505	171
							95	CXM-18-30-95-36-TC50	4,180	159
						3500	90	CXM-18-35-90-36-TC50	4,710	179
							95	CXM-18-35-95-36-TC50	4,205	160
						4000	90	CXM-18-40-90-36-TC50	4,700	179
							95	CXM-18-40-95-36-TC50	4,375	166
						5000	90	CXM-18-50-90-36-TC50	4,660	177
							95	CXM-18-50-95-36-TC50	4,415	168
						6500	90	CXM-18-65-90-36-TC50	4,585	174

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)
1,050 ~ 1,760	33.5	35.2 ~ 60.0	22.0	0.14	28.0 × 28.0	2400	90	CLM-22-24-90-36-TC50	5,470	156
						2700	90	CLM-22-27-90-36-TC50	5,840	166
							95	CLM-22-27-95-36-TC50	5,335	152
						3000	90	CLM-22-30-90-36-TC50	5,945	169
							95	CLM-22-30-95-36-TC50	5,525	157
						3500	90	CLM-22-35-90-36-TC50	6,220	177
							95	CLM-22-35-95-36-TC50	5,555	158
						4000	90	CLM-22-40-90-36-TC50	6,210	177
							95	CLM-22-40-95-36-TC50	5,780	164
						5000	90	CLM-22-50-90-36-TC50	6,160	175
							95	CLM-22-50-95-36-TC50	5,830	166
						6500	90	CLM-22-65-90-36-TC50	6,055	172

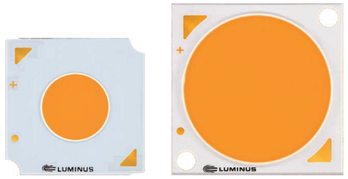
CXM-22

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)
1,050 ~ 1,760	49.6	52.0 ~ 90.5	22.0	0.13	28.0 × 28.0	2400	90	CXM-22-24-90-36-TC50	8,170	157
						2700	90	CXM-22-27-90-36-TC50	8,720	167
							95	CXM-22-27-95-36-TC50	7,960	153
						3000	90	CXM-22-30-90-36-TC50	8,880	171
							95	CXM-22-30-95-36-TC50	8,245	158
						3500	90	CXM-22-35-90-36-TC50	9,285	178
							95	CXM-22-35-95-36-TC50	8,290	159
						4000	90	CXM-22-40-90-36-TC50	9,270	178
							95	CXM-22-40-95-36-TC50	8,630	166
						5000	90	CXM-22-50-90-36-TC50	9,190	176
							95	CXM-22-50-95-36-TC50	8,705	167
						6500	90	CXM-22-65-90-36-TC50	9,040	174

6th Generation COBs

Description:

The Luminus Generation 6 LED COB array series delivers solutions for the most demanding spot lighting, down lighting and directional applications in general lighting. Available in lumen packages from less than 475 to over 18,720 lm. All Gen 6 COBs deliver 151 LPW (3000K, 90 CRI) at junction temperature Tj= 85°C. Offered in the widest CRI range in the industry, with a complete white color range, providing lighting designers and manufacturers the choices necessary to meet the optimum performance at the most cost effective price. Tight color control combined with the highest lumen performance, quality, consistency and reliability make Luminus your one stop solution.

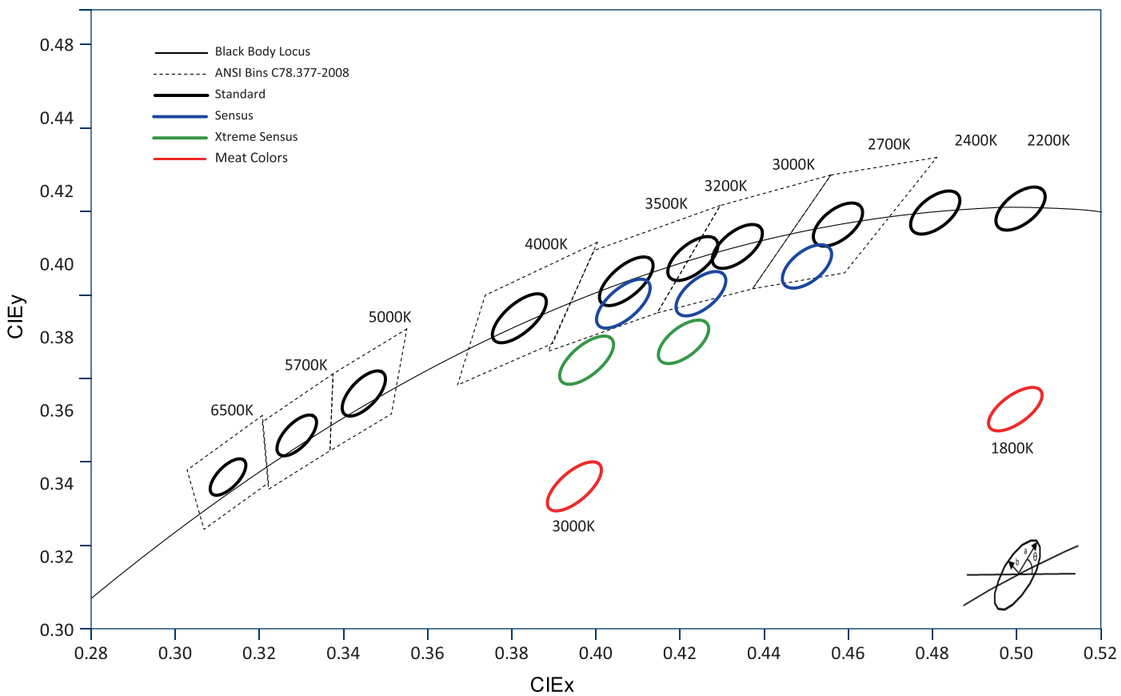


Features:

- Lumen: 475 ~ 18,724 lm (Tj=85°C)
- Efficacy: 151 LPW (3000K/90 CRI, Tj=85°C)
- CCT: 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 5700K, 6500K
- CRI: 80, 90, 95 (min)
- SCDM: < 3 step
- Max Tc: 105°C
- Max Tj: 140°C
- Note: CLM-9/CXM-9/CXM-11/CXM-14 TC/TA version available

Applications:

- Spotlights/Track Lights
- Downlights
- Shop Lighting
- Hospitality Lighting
- Architectural and Specialty
- Street Lighting
- Parking Lot and Area Lighting
- Tunnel Lighting



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	33.2	4.0 ~ 14.5	4.5	1.43	13.5 × 13.5	2200	90	CXM-4-22-90-36-TE60	390	98
						2400	90	CXM-4-24-90-36-TE60	425	107
						2700	80	CXM-4-27-80-36-TE60	515	129
							90	CXM-4-27-90-36-TE60	460	115
							95	CXM-4-27-95-36-TE60	385	97
						3000	80	CXM-4-30-80-36-TE60	545	137
							90	CXM-4-30-90-36-TE60	475	119
							95	CXM-4-30-95-36-TE60	405	102
						3500	80	CXM-4-35-80-36-TE60	555	139
							90	CXM-4-35-90-36-TE60	485	122
							95	CXM-4-35-95-36-TE60	420	105
						4000	80	CXM-4-40-80-36-TE60	565	142
							90	CXM-4-40-90-36-TE60	500	126
							95	CXM-4-40-95-36-TE60	445	112
						5000	80	CXM-4-50-80-36-TE60	575	144
							90	CXM-4-50-90-36-TE60	495	124
							95	CXM-4-50-95-36-TE60	465	117
						6500	80	CXM-4-65-80-36-TE60	560	141
							90	CXM-4-65-90-36-TE60	500	126

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 ~ 400	33.3	5.0 ~ 15.0	6.3	1.00	13.5 × 13.5	2200	90	CXM-6-22-90-36-TE60	565	113
						2400	90	CXM-6-24-90-36-TE60	615	123
						2700	80	CXM-6-27-80-36-TE60	745	149
							90	CXM-6-27-90-36-TE60	665	133
							95	CXM-6-27-95-36-TE60	555	111
						3000	80	CXM-6-30-80-36-TE60	790	158
							90	CXM-6-30-90-36-TE60	690	138
							95	CXM-6-30-95-36-TE60	585	117
						3500	80	CXM-6-35-80-36-TE60	805	161
							90	CXM-6-35-90-36-TE60	705	141
							95	CXM-6-35-95-36-TE60	610	122
						4000	80	CXM-6-40-80-36-TE60	820	164
							90	CXM-6-40-90-36-TE60	720	144
							95	CXM-6-40-95-36-TE60	645	129
						5000	80	CXM-6-50-80-36-TE60	835	167
							90	CXM-6-50-90-36-TE60	720	144
							95	CXM-6-50-95-36-TE60	675	135
						6500	80	CXM-6-65-80-36-TE60	810	162
							90	CXM-6-65-90-36-TE60	725	145

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 ~ 800	32.8	8.2 ~ 29.0	9.6	0.50	13.5 × 13.5 (TC) 15.0 × 15.0 (TA)	2200	90	CLM-9-22-90-36-TC/TA60	990	121
						2400	90	CLM-9-24-90-36-TC/TA60	1,075	131
						2700	80	CLM-9-27-80-36-TC/TA60	1,305	159
							90	CLM-9-27-90-36-TC/TA60	1,160	141
							95	CLM-9-27-95-36-TC/TA60	970	118
						3000	80	CLM-9-30-80-36-TC/TA60	1,380	168
							90	CLM-9-30-90-36-TC/TA60	1,205	147
							95	CLM-9-30-95-36-TC/TA60	1,025	125
						3500	80	CLM-9-35-80-36-TC/TA60	1,405	171
							90	CLM-9-35-90-36-TC/TA60	1,235	151
							95	CLM-9-35-95-36-TC/TA60	1,070	130
						4000	80	CLM-9-40-80-36-TC/TA60	1,435	175
							90	CLM-9-40-90-36-TC/TA60	1,260	154
							95	CLM-9-40-95-36-TC/TA60	1,130	138
						5000	80	CLM-9-50-80-36-TC/TA60	1,460	178
							90	CLM-9-50-90-36-TC/TA60	1,260	154
							95	CLM-9-50-95-36-TC/TA60	1,185	145
						6500	80	CLM-9-65-80-36-TC/TA60	1,415	173
							90	CLM-9-65-90-36-TC/TA60	1,265	154

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 ~ 1,000	33.2	12.0 ~ 37.4	9.6	0.32	13.5 × 13.5	2200	90	CXM-9-22-90-36-TC60	1,405	118
						2400	90	CXM-9-24-90-36-TC60	1,525	128
						2700	80	CXM-9-27-80-36-TC60	1,855	155
							90	CXM-9-27-90-36-TC60	1,645	138
							95	CXM-9-27-95-36-TC60	1,380	115
						3000	80	CXM-9-30-80-36-TC60	1,955	164
							90	CXM-9-30-90-36-TC60	1,710	143
							95	CXM-9-30-95-36-TC60	1,455	122
						3500	80	CXM-9-35-80-36-TC60	1,995	167
							90	CXM-9-35-90-36-TC60	1,750	146
							95	CXM-9-35-95-36-TC60	1,520	127
						4000	80	CXM-9-40-80-36-TC60	2,035	170
							90	CXM-9-40-90-36-TC60	1,790	150
							95	CXM-9-40-95-36-TC60	1,600	134
						5000	80	CXM-9-50-80-36-TC60	2,070	173
							90	CXM-9-50-90-36-TC60	1,785	149
							95	CXM-9-50-95-36-TC60	1,680	141
						6500	80	CXM-9-65-80-36-TC60	2,005	168
							90	CXM-9-65-90-36-TC60	1,795	150

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 ~ 1,000	33.2	12.0 ~ 37.4	9.6	0.32	15.0 × 15.0	2200	90	CXM-9-22-90-36-TA60	1,405	118
						2400	90	CXM-9-24-90-36-TA60	1,525	128
						2700	80	CXM-9-27-80-36-TA60	1,855	155
							90	CXM-9-27-90-36-TA60	1,645	138
							95	CXM-9-27-95-36-TA60	1,380	115
						3000	80	CXM-9-30-80-36-TA60	1,955	164
							90	CXM-9-30-90-36-TA60	1,710	143
							95	CXM-9-30-95-36-TA60	1,455	122
						3500	80	CXM-9-35-80-36-TA60	1,995	167
							90	CXM-9-35-90-36-TA60	1,750	146
							95	CXM-9-35-95-36-TA60	1,520	127
						4000	80	CXM-9-40-80-36-TA60	2,035	170
							90	CXM-9-40-90-36-TA60	1,790	150
							95	CXM-9-40-95-36-TA60	1,600	134
						5000	80	CXM-9-50-80-36-TA60	2,070	173
							90	CXM-9-50-90-36-TA60	1,785	149
							95	CXM-9-50-95-36-TA60	1,680	141
						6500	80	CXM-9-65-80-36-TA60	2,005	168
							90	CXM-9-65-90-36-TA60	1,795	150

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 ~ 1,200	33.1	14.5 ~ 44.5	11.7	0.29	19.0 × 19.0 (TC) 18.5 × 18.5 (TA)	2200	90	CXM-11-22-90-36-TC/TA60	1,795	121
						2400	90	CXM-11-24-90-36-TC/TA60	1,950	131
						2700	80	CXM-11-27-80-36-TC/TA60	2,370	159
							90	CXM-11-27-90-36-TC/TA60	2,105	141
							95	CXM-11-27-95-36-TC/TA60	1,765	118
						3000	80	CXM-11-30-80-36-TC/TA60	2,505	168
							90	CXM-11-30-90-36-TC/TA60	2,185	147
							95	CXM-11-30-95-36-TC/TA60	1,860	125
						3500	80	CXM-11-35-80-36-TC/TA60	2,550	171
							90	CXM-11-35-90-36-TC/TA60	2,240	150
							95	CXM-11-35-95-36-TC/TA60	1,945	131
						4000	80	CXM-11-40-80-36-TC/TA60	2,605	175
							90	CXM-11-40-90-36-TC/TA60	2,290	154
							95	CXM-11-40-95-36-TC/TA60	2,050	138
						5000	80	CXM-11-50-80-36-TC/TA60	2,645	178
							90	CXM-11-50-90-36-TC/TA60	2,285	153
							95	CXM-11-50-95-36-TC/TA60	2,145	144
						6500	80	CXM-11-65-80-36-TC/TA60	2,565	172
							90	CXM-11-65-90-36-TC/TA60	2,295	154

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 ~ 1,200	33.1	14.9 ~ 44.5	14.5	0.25	19.0 × 19.0	2200	90	CIM-14-22-90-36-TC60	1,810	122
						2400	90	CIM-14-24-90-36-TC60	1,965	132
						2700	80	CIM-14-27-80-36-TC60	2,390	160
							90	CIM-14-27-90-36-TC60	2,120	142
							95	CIM-14-27-95-36-TC60	1,780	120
						3000	80	CIM-14-30-80-36-TC60	2,520	169
							90	CIM-14-30-90-36-TC60	2,200	148
							95	CIM-14-30-95-36-TC60	1,875	126
						3500	80	CIM-14-35-80-36-TC60	2,570	173
							90	CIM-14-35-90-36-TC60	2,255	151
							95	CIM-14-35-95-36-TC60	1,960	132
						4000	80	CIM-14-40-80-36-TC60	2,625	176
							90	CIM-14-40-90-36-TC60	2,305	155
							95	CIM-14-40-95-36-TC60	2,065	139
						5000	80	CIM-14-50-80-36-TC60	2,670	179
							90	CIM-14-50-90-36-TC60	2,305	155
							95	CIM-14-50-95-36-TC60	2,165	145
						6500	80	CIM-14-65-80-36-TC60	2,585	174
							90	CIM-14-65-90-36-TC60	2,310	155

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 ~ 1,600	32.8	16.4 ~ 58.2	14.5	0.25	19.0 × 19.0	2200	90	CLM-14-22-90-36-TC60	2,040	124
						2400	90	CLM-14-24-90-36-TC60	2,215	135
						2700	80	CLM-14-27-80-36-TC60	2,690	164
							90	CLM-14-27-90-36-TC60	2,390	146
							95	CLM-14-27-95-36-TC60	2,000	122
						3000	80	CLM-14-30-80-36-TC60	2,840	173
							90	CLM-14-30-90-36-TC60	2,480	151
							95	CLM-14-30-95-36-TC60	2,110	129
						3500	80	CLM-14-35-80-36-TC60	2,895	177
							90	CLM-14-35-90-36-TC60	2,540	155
							95	CLM-14-35-95-36-TC60	2,205	134
						4000	80	CLM-14-40-80-36-TC60	2,955	180
							90	CLM-14-40-90-36-TC60	2,600	159
							95	CLM-14-40-95-36-TC60	2,325	142
						5000	80	CLM-14-50-80-36-TC60	3,005	183
							90	CLM-14-50-90-36-TC60	2,595	158
							95	CLM-14-50-95-36-TC60	2,440	149
						6500	80	CLM-14-65-80-36-TC60	2,910	177
							90	CLM-14-65-90-36-TC60	2,605	159

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 ~ 1,800	33.3	24.0 ~ 67.9	14.5	0.25	19.0 × 19.0 (TC) 18.5 × 18.5 (TA)	2200	90	CXM-14-22-90-36-TC/TA60	2,840	118
						2400	90	CXM-14-24-90-36-TC/TA60	3,085	129
						2700	80	CXM-14-27-80-36-TC/TA60	3,750	156
							90	CXM-14-27-90-36-TC/TA60	3,330	139
							95	CXM-14-27-95-36-TC/TA60	2,790	116
						3000	80	CXM-14-30-80-36-TC/TA60	3,955	165
							90	CXM-14-30-90-36-TC/TA60	3,450	144
							95	CXM-14-30-95-36-TC/TA60	2,940	123
						3500	80	CXM-14-35-80-36-TC/TA60	4,030	168
							90	CXM-14-35-90-36-TC/TA60	3,540	148
							95	CXM-14-35-95-36-TC/TA60	3,070	128
						4000	80	CXM-14-40-80-36-TC/TA60	4,120	172
							90	CXM-14-40-90-36-TC/TA60	3,620	151
							95	CXM-14-40-95-36-TC/TA60	3,240	135
						5000	80	CXM-14-50-80-36-TC/TA60	4,185	175
							90	CXM-14-50-90-36-TC/TA60	3,615	151
							95	CXM-14-50-95-36-TC/TA60	3,395	142
						6500	80	CXM-14-65-80-36-TC/TA60	4,055	169
							90	CXM-14-65-90-36-TC/TA60	3,630	151

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 ~ 2,200	33.4	30.0 ~ 83.1	14.5	0.25	19.0 × 19.0	2200	90	CGM-14-22-90-36-TC60	3,525	117
						2400	90	CGM-14-24-90-36-TC60	3,830	127
						2700	80	CGM-14-27-80-36-TC60	4,650	155
							90	CGM-14-27-90-36-TC60	4,130	137
							95	CGM-14-27-95-36-TC60	3,460	115
						3000	80	CGM-14-30-80-36-TC60	4,910	163
							90	CGM-14-30-90-36-TC60	4,285	143
							95	CGM-14-30-95-36-TC60	3,650	121
						3500	80	CGM-14-35-80-36-TC60	5,000	166
							90	CGM-14-35-90-36-TC60	4,395	146
							95	CGM-14-35-95-36-TC60	3,810	127
						4000	80	CGM-14-40-80-36-TC60	5,110	170
							90	CGM-14-40-90-36-TC60	4,495	150
							95	CGM-14-40-95-36-TC60	4,020	134
						5000	80	CGM-14-50-80-36-TC60	5,195	173
							90	CGM-14-50-90-36-TC60	4,485	149
							95	CGM-14-50-95-36-TC60	4,210	140
						6500	80	CGM-14-65-80-36-TC60	5,035	167
							90	CGM-14-65-90-36-TC60	4,500	150

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 ~ 2,400	33.0	26.5 ~ 84.0	17.5	0.13	28.0 × 28.0	2200	90	CXM-18-22-90-36-TC60	3,360	127
						2400	90	CXM-18-24-90-36-TC60	3,650	138
						2700	80	CXM-18-27-80-36-TC60	4,435	168
							90	CXM-18-27-90-36-TC60	3,940	149
							95	CXM-18-27-95-36-TC60	3,300	125
						3000	80	CXM-18-30-80-36-TC60	4,680	177
							90	CXM-18-30-90-36-TC60	4,085	155
							95	CXM-18-30-95-36-TC60	3,480	132
						3500	80	CXM-18-35-80-36-TC60	4,770	181
							90	CXM-18-35-90-36-TC60	4,190	159
							95	CXM-18-35-95-36-TC60	3,635	138
						4000	80	CXM-18-40-80-36-TC60	4,875	185
							90	CXM-18-40-90-36-TC60	4,285	162
							95	CXM-18-40-95-36-TC60	3,830	145
						5000	80	CXM-18-50-80-36-TC60	4,950	188
							90	CXM-18-50-90-36-TC60	4,275	162
							95	CXM-18-50-95-36-TC60	4,015	152
						6500	80	CXM-18-65-80-36-TC60	4,800	182
							90	CXM-18-65-90-36-TC60	4,295	163

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 ~ 2,600	33.2	33.0 ~ 98.0	22.0	0.14	28.0 × 28.0	2200	90	CIM-22-22-90-36-TC60	4,195	128
						2400	90	CIM-22-24-90-36-TC60	4,560	139
						2700	80	CIM-22-27-80-36-TC60	5,540	169
							90	CIM-22-27-90-36-TC60	4,920	150
							95	CIM-22-27-95-36-TC60	4,125	126
						3000	80	CIM-22-30-80-36-TC60	5,850	178
							90	CIM-22-30-90-36-TC60	5,105	155
							95	CIM-22-30-95-36-TC60	4,350	132
						3500	80	CIM-22-35-80-36-TC60	5,960	181
							90	CIM-22-35-90-36-TC60	5,235	159
							95	CIM-22-35-95-36-TC60	4,540	138
						4000	80	CIM-22-40-80-36-TC60	6,090	185
							90	CIM-22-40-90-36-TC60	5,350	163
							95	CIM-22-40-95-36-TC60	4,785	146
						5000	80	CIM-22-50-80-36-TC60	6,185	188
							90	CIM-22-50-90-36-TC60	5,340	162
							95	CIM-22-50-95-36-TC60	5,020	153
						6500	80	CIM-22-65-80-36-TC60	6,000	183
							90	CIM-22-65-90-36-TC60	5,365	163

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)
1,050 ~ 3,200	32.9	34.5 ~ 117.0	22.0	0.14	28.0 × 28.0	2200	90	CLM-22-22-90-36-TC60	4,510	131
						2400	90	CLM-22-24-90-36-TC60	4,900	142
						2700	80	CLM-22-27-80-36-TC60	5,955	172
							90	CLM-22-27-90-36-TC60	5,290	153
							95	CLM-22-27-95-36-TC60	4,430	128
						3000	80	CLM-22-30-80-36-TC60	6,285	182
							90	CLM-22-30-90-36-TC60	5,485	159
							95	CLM-22-30-95-36-TC60	4,675	135
						3500	80	CLM-22-35-80-36-TC60	6,405	185
							90	CLM-22-35-90-36-TC60	5,625	163
							95	CLM-22-35-95-36-TC60	4,880	141
						4000	80	CLM-22-40-80-36-TC60	6,545	189
							90	CLM-22-40-90-36-TC60	5,750	166
							95	CLM-22-40-95-36-TC60	5,145	149
						5000	80	CLM-22-50-80-36-TC60	6,650	193
							90	CLM-22-50-90-36-TC60	5,740	166
							95	CLM-22-50-95-36-TC60	5,395	156
						6500	80	CLM-22-65-80-36-TC60	6,445	187
							90	CLM-22-65-90-36-TC60	5,765	167

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)
1,050 ~ 3,200	49.2	52.0 ~ 177.0	22.0	0.14	28.0 × 28.0	2700	80	CXM-22-27-80-54-TC60	8,795	170
							90	CXM-22-27-90-54-TC60	7,810	151
							95	CXM-22-27-95-54-TC60	6,540	127
						3000	80	CXM-22-30-80-54-TC60	9,280	180
							90	CXM-22-30-90-54-TC60	8,100	157
							95	CXM-22-30-95-54-TC60	6,900	134
						3500	80	CXM-22-35-80-54-TC60	9,455	183
							90	CXM-22-35-90-54-TC60	8,305	161
							95	CXM-22-35-95-54-TC60	7,205	139
						4000	80	CXM-22-40-80-54-TC60	9,665	187
							90	CXM-22-40-90-54-TC60	8,495	164
							95	CXM-22-40-95-54-TC60	7,595	147
						5000	70	CXM-22-50-70-54-TC60	10,200	197
							80	CXM-22-50-80-54-TC60	9,815	190
							90	CXM-22-50-90-54-TC60	8,475	164
							95	CXM-22-50-95-54-TC60	7,965	154
						5700	70	CXM-22-57-70-54-TC60	10,080	195
							80	CXM-22-57-80-54-TC60	9,630	186
						6500	70	CXM-22-65-70-54-TC60	10,050	195
							80	CXM-22-65-80-54-TC60	9,520	184
							90	CXM-22-65-90-54-TC60	8,510	165

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)
1,600 ~ 3,600	50.4	81.0 ~ 195.0	22.0	0.14	28.0 × 28.0	2200	90	CGM-22-22-90-54-TC60	9,820	122
						2400	90	CGM-22-24-90-54-TC60	10,670	132
						2700	80	CGM-22-27-80-54-TC60	12,960	161
							90	CGM-22-27-90-54-TC60	11,520	143
							95	CGM-22-27-95-54-TC60	9,650	120
						3000	80	CGM-22-30-80-54-TC60	13,690	170
							90	CGM-22-30-90-54-TC60	11,940	148
							95	CGM-22-30-95-54-TC60	10,180	126
						3500	80	CGM-22-35-80-54-TC60	13,940	173
							90	CGM-22-35-90-54-TC60	12,240	152
							95	CGM-22-35-95-54-TC60	10,630	132
						4000	80	CGM-22-40-80-54-TC60	14,250	177
							90	CGM-22-40-90-54-TC60	12,520	155
							95	CGM-22-40-95-54-TC60	11,200	139
						5000	80	CGM-22-50-80-54-TC60	14,470	179
							90	CGM-22-50-90-54-TC60	12,500	155
							95	CGM-22-50-95-54-TC60	11,740	146
						5700	70	CGM-22-57-70-54-TC60	14,860	184
							80	CGM-22-57-80-54-TC60	14,200	176
						6500	70	CGM-22-65-70-54-TC60	14,810	184
							80	CGM-22-65-80-54-TC60	14,040	174
							90	CGM-22-65-90-54-TC60	12,550	156

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)
2,400 ~ 5,600	50.2	120.0 ~ 310.0	32.8	0.10	38.0 × 38.0	2700	80	CXM-32-27-80-54-TC60	20,330	169
							90	CXM-32-27-90-54-TC60	18,060	150
							95	CXM-32-27-95-54-TC60	15,120	125
						3000	80	CXM-32-30-80-54-TC60	21,460	178
							90	CXM-32-30-90-54-TC60	18,724	155
							95	CXM-32-30-95-54-TC60	15,950	132
						3500	80	CXM-32-35-80-54-TC60	21,860	181
							90	CXM-32-35-90-54-TC60	19,200	159
							95	CXM-32-35-95-54-TC60	16,660	138
						4000	80	CXM-32-40-80-54-TC60	22,340	185
							90	CXM-32-40-90-54-TC60	19,640	163
							95	CXM-32-40-95-54-TC60	17,560	146
						5000	80	CXM-32-50-80-54-TC60	22,690	188
							90	CXM-32-50-90-54-TC60	19,600	163
							95	CXM-32-50-95-54-TC60	18,410	153
						5700	70	CXM-32-57-70-54-TC60	23,310	193
							80	CXM-32-57-80-54-TC60	22,270	185
						6500	70	CXM-32-65-70-54-TC60	23,230	193
							80	CXM-32-65-80-54-TC60	22,010	183
							90	CXM-32-65-90-54-TC60	19,670	163

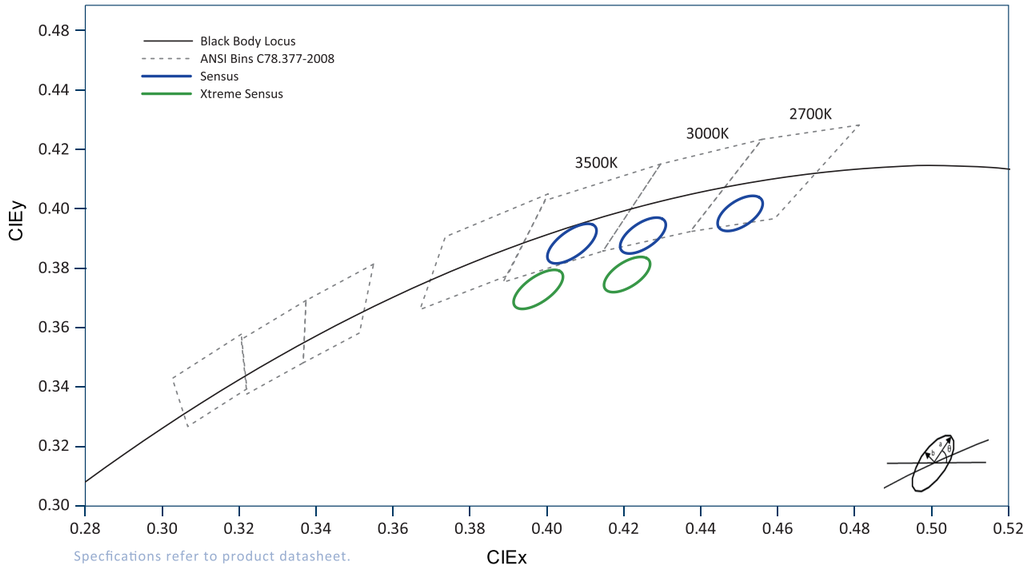
Sensus™ COBs

Sensus™ Application Comparison

Standard 3000K, 90 CRI on BBL | Sensus™ | Extreme Sensus™

- 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:



Specfications refer to product datasheet.

Lux Sensus™

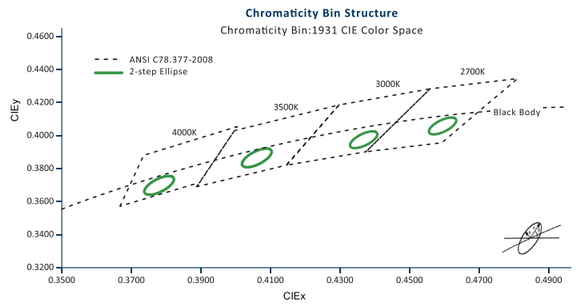
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Number	Typical Lumen (85°C)	Efficacy (LPW)
CXM-4	120 ~ 220	33.3	4.0 ~ 7.7	4.5	1.43	13.5 × 13.5	2700	90	CXM-4-27-90-36-TE52	480	120
							3000	90	CXM-4-30-90-36-TE52	490	123
							3500	90	CXM-4-35-90-36-TE52	505	127
CXM-6	150 ~ 220	33.3	5.0 ~ 7.5	6.3	1.00	13.5 × 13.5	2700	90	CXM-6-27-90-36-TE52	735	147
							3000	90	CXM-6-30-90-36-TE52	750	150
							3500	90	CXM-6-35-90-36-TE52	765	153
CLM-9	250 ~ 440	32.8	8.2 ~ 15.0	9.8	0.50	13.5 × 13.5 (TC) 15.0 × 15.0 (TA)	2700	90	CLM-9-27-90-36-TC52	1,235	151
									CLM-9-27-90-36-TA52		
							3000	90	CLM-9-30-90-36-TC52	1,260	154
									CLM-9-30-90-36-TA52		
							3500	90	CLM-9-35-90-36-TC52	1,295	158
									CLM-9-35-90-36-TA52		
CXM-9	360 ~ 550	33.2	12.0 ~ 19.0	9.8	0.32	13.5 × 13.5 (TC) 15.0 × 15.0 (TA)	2700	90	CXM-9-27-90-36-TC52	1,735	145
									CXM-9-27-90-36-TA52		
							3000	90	CXM-9-30-90-36-TC52	1,770	148
									CXM-9-30-90-36-TA52		
							3500	90	CXM-9-35-90-36-TC52	1,815	152
									CXM-9-35-90-36-TA52		
CXM-11	450 ~ 660	33.3	15.0 ~ 22.7	11.6	0.29	19.0 × 19.0 (TC) 18.5 × 18.5 (TA)	2700	90	CXM-11-27-90-36-TC52	2,235	149
									CXM-11-27-90-36-TA52		
							3000	90	CXM-11-30-90-36-TC52	2,280	152
									CXM-11-30-90-36-TA52		
							3500	90	CXM-11-35-90-36-TC52	2,340	156
									CXM-11-35-90-36-TA52		
CLM-14	500 ~ 880	33.0	16.5 ~ 30.3	14.5	0.25	19.0 × 19.0	2700	90	CLM-14-27-90-36-TC52	2,535	154
							3000	90	CLM-14-30-90-36-TC52	2,580	156
							3500	90	CLM-14-35-90-36-TC52	2,645	160
CXM-14	720 ~ 990	33.4	24.1 ~ 34.3	14.5	0.23	19.0 × 19.0	2700	90	CXM-14-27-90-36-TC52	3,605	150
							3000	90	CXM-14-30-90-36-TC52	3,680	153
							3500	90	CXM-14-35-90-36-TC52	3,775	157
CXM-18	800 ~ 1,320	32.9	26.5 ~ 46.0	17.5	0.13	28.0 × 28.0	2700	90	CXM-18-27-90-36-TC52	4,285	163
							3000	90	CXM-18-30-90-36-TC52	4,370	166
							3500	90	CXM-18-35-90-36-TC52	4,480	170
CLM-22	1,050 ~ 1,760	33.5	35.2 ~ 60.0	22.0	0.14	28.0 × 28.0	2700	90	CLM-22-27-90-36-TC52	5,665	161
							3000	90	CLM-22-30-90-36-TC52	5,770	164
							3500	90	CLM-22-35-90-36-TC52	5,915	168
CXM-22	1,050 ~ 1,760	49.6	52.0 ~ 90.5	22.0	0.13	28.0 × 28.0	2700	90	CXM-22-27-90-54-TC52	8,440	162
							3000	90	CXM-22-30-90-54-TC52	8,610	165
							3500	90	CXM-22-35-90-54-TC52	8,830	170

Gen 6 Sensus™ COB

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	33.2	4.0 ~ 14.5	4.5	1.43	13.5 × 13.5	2700	90	CXM-4-27-90-36-TE62	435	109
							3000	90	CXM-4-30-90-36-TE62	460	115
							3500	90	CXM-4-35-90-36-TE62	475	119
CXM-6	150 ~ 400	33.3	5.0 ~ 15.0	6.3	1.00	13.5 × 13.5	2700	90	CXM-6-27-90-36-TE62	630	126
							3000	90	CXM-6-30-90-36-TE62	670	134
							3500	90	CXM-6-35-90-36-TE62	685	137
CLM-9	250 ~ 800	32.8	8.2 ~ 29.0	9.6	0.50	13.5 × 13.5 (TC) 15.0 × 15.0 (TA)	2700	90	CLM-9-27-90-36-TC/TA62	1,105	135
							3000	90	CLM-9-30-90-36-TC/TA62	1,170	143
							3500	90	CLM-9-35-90-36-TC/TA62	1,200	146
CXM-9	360 ~ 1,000	33.2	12.0 ~ 37.4	9.6	0.32	13.5 × 13.5 (TC) 15.0 × 15.0 (TA)	2700	90	CXM-9-27-90-36-TC/TA62	1,565	131
							3000	90	CXM-9-30-90-36-TC/TA62	1,660	139
							3500	90	CXM-9-35-90-36-TC/TA62	1,705	143
CXM-11	450 ~ 1,200	33.1	14.5 ~ 44.5	11.7	0.29	19.0 × 19.0 (TC) 18.5 × 18.5 (TA)	2700	90	CXM-11-27-90-36-TC/TA62	2,005	135
							3000	90	CXM-11-30-90-36-TC/TA62	2,125	143
							3500	90	CXM-11-35-90-36-TC/TA62	2,180	146
CIM-14	450 ~ 1,200	33.1	14.9 ~ 44.5	14.5	0.25	19.0 × 19.0	2700	90	CIM-14-27-90-36-TC62	2,020	136
							3000	90	CIM-14-30-90-36-TC62	2,145	144
							3500	90	CIM-14-35-90-36-TC62	2,195	147
CLM-14	500 ~ 1,600	32.8	16.4 ~ 58.2	14.5	0.25	19.0 × 19.0	2700	90	CLM-14-27-90-36-TC62	2,275	139
							3000	90	CLM-14-30-90-36-TC62	2,415	147
							3500	90	CLM-14-35-90-36-TC62	2,475	151
CXM-14	720 ~ 1,800	33.3	24.0 ~ 67.9	14.5	0.25	19.0 × 19.0	2700	90	CXM-14-27-90-36-TC62	3,170	132
							3000	90	CXM-14-30-90-36-TC62	3,360	140
							3500	90	CXM-14-35-90-36-TC62	3,445	144
CGM-14	900 ~ 2,200	33.4	30.0 ~ 83.1	14.5	0.25	19.0 × 19.0	2700	90	CGM-14-27-90-36-TC62	3,930	131
							3000	90	CGM-14-30-90-36-TC62	4,170	139
							3500	90	CGM-14-35-90-36-TC62	4,275	142
CXM-18	800 ~ 2,400	33.0	26.5 ~ 84.0	17.5	0.13	28.0 × 28.0	2700	90	CXM-18-27-90-36-TC62	3,750	142
							3000	90	CXM-18-30-90-36-TC62	3,980	151
							3500	90	CXM-18-35-90-36-TC62	4,075	154
CIM-22	990 ~ 2,600	33.2	33.0 ~ 98.0	22.0	0.14	28.0 × 28.0	2700	90	CIM-22-27-90-36-TC62	4,685	143
							3000	90	CIM-22-30-90-36-TC62	4,970	151
							3500	90	CIM-22-35-90-36-TC62	5,095	155
CLM-22	1,050 ~ 3,200	32.9	34.5 ~ 117.0	22.0	0.14	28.0 × 28.0	2700	90	CLM-22-27-90-36-TC62	5,035	146
							3000	90	CLM-22-30-90-36-TC62	5,340	155
							3500	90	CLM-22-35-90-36-TC62	5,485	159
CXM-22	1,050 ~ 3,200	49.2	52.0 ~ 177.0	22.0	0.14	28.0 × 28.0	2700	90	CXM-22-27-90-54-TC62	7,435	144
							3000	90	CXM-22-30-90-54-TC62	7,890	153
							3500	90	CXM-22-35-90-54-TC62	8,085	157
CGM-22	1,600 ~ 3600	50.4	81.0 ~ 195.0	22.0	0.14	28.0 × 28.0	2700	90	CGM-22-27-90-54-TC62	10,960	140
							3000	90	CGM-22-30-90-54-TC62	11,630	144
							3500	90	CGM-22-35-90-54-TC62	11,920	148
CXM-32	2,400 ~ 5,600	50.2	120.0 ~ 310.0	32.8	0.10	38.0 × 38.0	2700	90	CXM-32-27-90-54-TC62	17,180	143
							3000	90	CXM-32-30-90-54-TC62	18,230	151
							3500	90	CXM-32-35-90-54-TC62	18,690	155

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



Hospitality COBs											
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	4.0 ~ 15.7	4.5	1.43	13.5 × 13.5	2700	90	CXM-4-27-90-36-SC41-F5-2	410	101
								95	CXM-4-27-95-36-SC41-F5-2	355	88
							3000	90	CXM-4-30-90-36-SC41-F5-2	425	105
								95	CXM-4-30-95-36-SC41-F5-2	385	95
							3500	90	CXM-4-35-90-36-SC41-F5-2	435	107
								95	CXM-4-35-95-36-SC41-F5-2	405	100
							4000	90	CXM-4-40-90-36-SC41-F5-2	450	111
								95	CXM-4-40-95-36-SC41-F5-2	415	102
CXM-6	150 ~ 400	33.3	5.0 ~ 15.7	6.3	1.00	13.5 × 13.5	2700	90	CXM-6-27-90-36-SC41-F5-2	610	122
								95	CXM-6-27-95-36-SC41-F5-2	535	107
							3000	90	CXM-6-30-90-36-SC41-F5-2	645	129
								95	CXM-6-30-95-36-SC41-F5-2	570	114
							3500	90	CXM-6-35-90-36-SC41-F5-2	675	135
								95	CXM-6-35-95-36-SC41-F5-2	600	120
							4000	90	CXM-6-40-90-36-SC41-F5-2	685	137
								95	CXM-6-40-95-36-SC41-F5-2	620	124
CLM-9	250 ~ 900	33.5	8.3 ~ 34.4	9.8	0.50	13.5 × 13.5 (SC) 15.0 × 15.0 (SA)	2700	90	CLM-9-27-90-36-SC/SA41-F5-2	1,025	122
								95	CLM-9-27-95-36-SC/SA41-F5-2	890	106
							3000	90	CLM-9-30-90-36-SC/SA41-F5-2	1,075	128
								95	CLM-9-30-95-36-SC/SA41-F5-2	925	110
							3500	90	CLM-9-35-90-36-SC/SA41-F5-2	1,070	128
								95	CLM-9-35-95-36-SC/SA41-F5-2	980	117
							4000	90	CLM-9-40-90-36-SC/SA41-F5-2	1,135	136
								95	CLM-9-40-95-36-SC/SA41-F5-2	1,020	122

Hospitality COBs											
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-9	360 ~ 1,000	33.5	12.1 ~ 39.7	9.8	0.32	13.5 × 13.5 (SC) 15.0 × 15.0 (SA)	2700	90	CXM-9-27-90-36-SC/SA41-F5-2	1,460	121
								95	CXM-9-27-95-36-SC/SA41-F5-2	1,260	104
							3000	90	CXM-9-30-90-36-SC/SA41-F5-2	1,520	126
								95	CXM-9-30-95-36-SC/SA41-F5-2	1,315	109
							3500	90	CXM-9-35-90-36-SC/SA41-F5-2	1,515	126
								95	CXM-9-35-95-36-SC/SA41-F5-2	1,385	115
							4000	90	CXM-9-40-90-36-SC/SA41-F5-2	1,600	133
								95	CXM-9-40-95-36-SC/SA41-F5-2	1,450	120
CLM-14	500 ~ 1,800	32.8	16.6 ~ 68.7	14.5	0.25	19.0 × 19.0	2700	90	CLM-14-27-90-36-SC41-F5-2	2,085	127
								95	CLM-14-27-95-36-SC41-F5-2	1,805	110
							3000	90	CLM-14-30-90-36-SC41-F5-2	2,180	133
								95	CLM-14-30-95-36-SC41-F5-2	1,875	114
							3500	90	CLM-14-35-90-36-SC41-F5-2	2,225	136
								95	CLM-14-35-95-36-SC41-F5-2	1,985	121
							4000	90	CLM-14-40-90-36-SC41-F5-2	2,290	140
								95	CLM-14-40-95-36-SC41-F5-2	2,075	127
CXM-14	720 ~ 1,750	33.5	24.1 ~ 66.5	14.5	0.23	19.0 × 19.0	2700	90	CXM-14-27-90-36-SC41-F5-2	2,975	123
								95	CXM-14-27-95-36-SC41-F5-2	2,515	104
							3000	90	CXM-14-30-90-36-SC41-F5-2	3,035	126
								95	CXM-14-30-95-36-SC41-F5-2	2,610	108
							3500	90	CXM-14-35-90-36-SC41-F5-2	3,155	131
								95	CXM-14-35-95-36-SC41-F5-2	2,910	121
							4000	90	CXM-14-40-90-36-SC41-F5-2	3,275	136
								95	CXM-14-40-95-36-SC41-F5-2	2,880	119
CHM-4	200 ~ 500	35.3	7.5 ~ 19.5	4.5	1.70	13.5 × 13.5	2700	90	CHM-4-27-90-36-SC41-F5-2	610	86
								95	CHM-4-27-95-36-SC41-F5-2	510	72
							3000	90	CHM-4-30-90-36-SC41-F5-2	635	90
								95	CHM-4-30-95-36-SC41-F5-2	550	78
							3500	90	CHM-4-35-90-36-SC41-F5-2	635	90
								95	CHM-4-35-95-36-SC41-F5-2	535	76
							4000	90	CHM-4-40-90-36-SC41-F5-2	685	97
								95	CHM-4-40-95-36-SC41-F5-2	600	85
CHM-6	400 ~ 750	35.3	15.2 ~ 27.2	6.3	1.00	13.5 × 13.5	2700	90	CHM-6-27-90-36-SC41-F5-2	1,260	89
								95	CHM-6-27-95-36-SC41-F5-2	1,055	75
							3000	90	CHM-6-30-90-36-SC41-F5-2	1,315	93
								95	CHM-6-30-95-36-SC41-F5-2	1,135	80
							3500	90	CHM-6-35-90-36-SC41-F5-2	1,310	93
								95	CHM-6-35-95-36-SC41-F5-2	1,260	89
							4000	90	CHM-6-40-90-36-SC41-F5-2	1,420	101
								95	CHM-6-40-95-36-SC41-F5-2	1,245	88
CHM-9	700 ~ 1,500	34.8	24.3 ~ 57.0	9.0	0.50	19.0 × 19.0	2700	90	CHM-9-27-90-36-SC41-F5-2	2,290	94
								95	CHM-9-27-95-36-SC41-F5-2	1,910	78
							3000	90	CHM-9-30-90-36-SC41-F5-2	2,390	98
								95	CHM-9-30-95-36-SC41-F5-2	2,055	84
							3500	90	CHM-9-35-90-36-SC41-F5-2	2,380	98
								95	CHM-9-35-95-36-SC41-F5-2	2,040	84
							4000	90	CHM-9-40-90-36-SC41-F5-2	2,580	106
								95	CHM-9-40-95-36-SC41-F5-2	2,260	93

Salud™ Technology

Human Centric Mid Power LEDs and COB LED Arrays

Analysis:

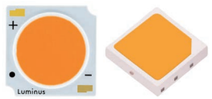
- The Melanopic/Photopic Ratio ("MR," M/P ratio, or MP ratio) is a metric to quantify the circadian effect of a light source
- The higher the MR, the stronger the circadian effect
- Higher CCT light sources generally have higher MRs, but most people, especially lighting designers, do NOT want their lights to be "blue tinted"
- Salud uniquely provides high MR values in warm CCTs
- Unlike sunlight, Salud has no dangerous UV or near UV
- Salud provides high CRI and excellent 660nm red rendering for beautiful skin tones and accurate medical diagnosis

Features:

- Engineered spectrum with enhanced cyan for melatonin suppression
- Typical Melanopic/Photopic (MR or M/P) ratios specified
- Enhanced MR for healthy daytime lighting with warmer CCTs
- Full spectrum emission – no cyan gap
- Excellent color rendering – Ra>90
- No near-UV radiation – safer and better than sunlight

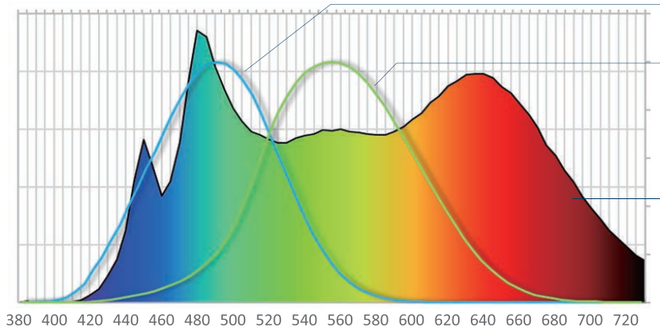
Applications:

- Office lighting
- Education
- Hospitals and elderly care
- Retail lighting
- CCT tunable lighting
- Panel lighting
- Down lights
- Architectural lighting



Salud™ COBs

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



Salud™ COB

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-6-30-90-36-TU31	3000	90	530	105
							CXM-6-35-90-36-TU31	3500	90	565	112
							CXM-6-40-90-36-TU31	4000	90	570	113
							CXM-6-50-90-36-TU31	5000	90	585	116
CXM-6	300 ~ 600	16.2	5.0 ~ 12.0	6.3	1.00	13.5 × 13.5	CXM-6-30-90-18-TU31	3000	90	530	109
							CXM-6-35-90-18-TU31	3500	90	565	116
							CXM-6-40-90-18-TU31	4000	90	570	117
							CXM-6-50-90-18-TU31	5000	90	585	120
CXM-9	360 ~ 720	33.5	12.1 ~ 26.6	9.8	0.50	13.5 × 13.5	CXM-9-30-90-36-TU31	3000	90	1310	109
							CXM-9-35-90-36-TU31	3500	90	1395	116
							CXM-9-40-90-36-TU31	4000	90	1415	117
							CXM-9-50-90-36-TU31	5000	90	1450	120
CXM-11	450 ~ 900	33.5	15.2 ~ 40.5	11.7	0.35	19.0 × 19.0	CXM-11-30-90-36-TU31	3000	90	1630	108
							CXM-11-35-90-36-TU31	3500	90	1735	115
							CXM-11-40-90-36-TU31	4000	90	1760	117
							CXM-11-50-90-36-TU31	5000	90	1810	120
CXM-14	720 ~ 1,440	33.5	24.1 ~ 53.5	14.5	0.23	19.0 × 19.0	CXM-14-30-90-36-TU31	3000	90	2590	107
							CXM-14-35-90-36-TU31	3500	90	2755	114
							CXM-14-40-90-36-TU31	4000	90	2795	116
							CXM-14-50-90-36-TU31	5000	90	2870	119
CXM-22	1,050 ~ 2,100	33.5	35.2 ~ 77.7	22.0	0.16	28.0 × 28.0	CLM-22-30-90-36-TU31	3000	90	4235	120
							CLM-22-35-90-36-TU31	3500	90	4510	128
							CLM-22-40-90-36-TU31	4000	90	4570	130
							CLM-22-50-90-36-TU31	5000	90	4700	134

Salud 3030 midpower 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

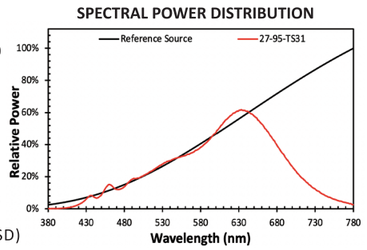
Smooth White

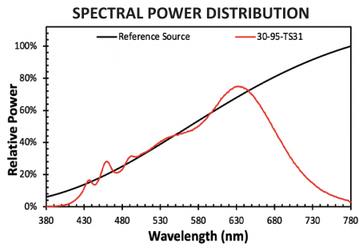
Smooth White											
Product	Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
CXM-6	150 ~ 300	33.5	5.0 ~ 12.0	6.3	1.00	13.5 × 13.5	CXM-6-27-95-36-TS31	2700	95	510	101
							CXM-6-30-95-36-TS31	3000	95	530	105
							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	19.0 × 19.0	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 ~ 1,440	33.5	24.1 ~ 53.5	14.5	0.23	19.0 × 19.0	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	1,050 ~ 2,100	33.5	35.2 ~ 77.7	22.0	0.16	28.0 × 28.0	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

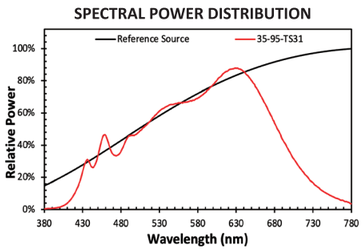
Luminus "Smoother" solution!

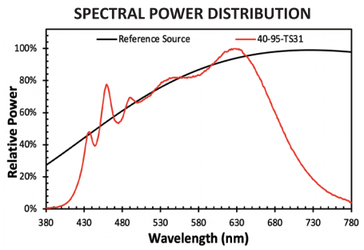
The "naturalness" of a light source and its value for "human-centric lighting."

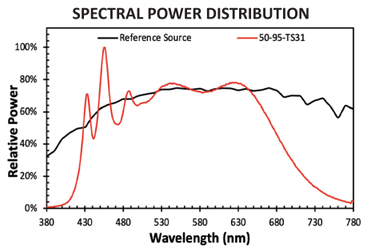
- Color performance identical to halogen
- Smoothest when TM-30 Rf and Rg equal 100
- Every CCT contains less blue/No UV
- Each CCT removes cyan dip
- Higher flux efficacy
- WELL Buliding Standards, HC Considerations
- Best in Class Average Spectral Difference (ASD)





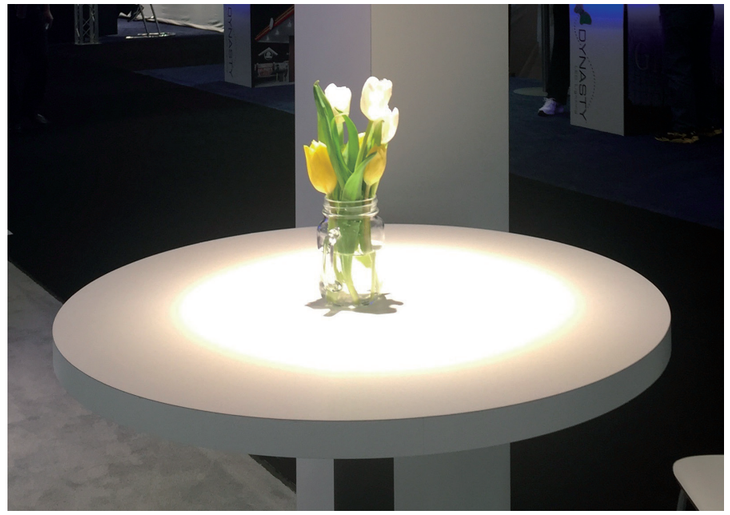






High Density Gen 4

- Robusto™ technology with Tc=120°C LM-80
- 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 ~ 19.5	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 ~ 1,000	17.6	7.5 ~ 19.5	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
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-6

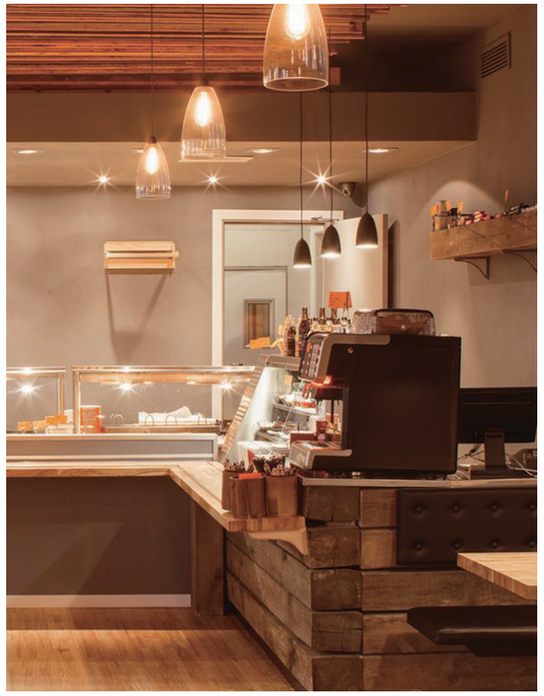
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
800 ~ 1,500	17.6	15.2 ~ 27.2	6.3	1.0	13.5 × 13.5	CHM-6-22-90-18-BH40	2200	90	1,165	88
						CHM-6-24-90-18-BH40	2400	90	1,240	94
						CHM-6-27-80-18-BH40	2700	80	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

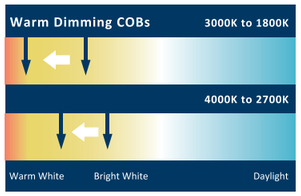
CHM-9

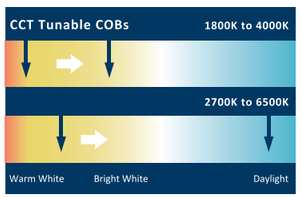
Typ.~Max. Current (mA)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (85°C)	Efficacy LPW
700 ~ 1,500	34.8	24.3 ~ 57.0	9.0	0.5	19.0 × 19.0	CHM-9-22-90-36-BH40	2200	90	2,060	85
						CHM-9-24-90-36-BH40	2400	90	2,255	93
						CHM-9-27-80-36-BH40	2700	80	2,715	111
						CHM-9-27-90-36-BH40		90	2,365	97
						CHM-9-27-95-36-BH40		95	1,975	81
						CHM-9-27-90-36-BH42		90	2,305	95
						CHM-9-30-80-36-BH40	3000	80	2,840	117
						CHM-9-30-90-36-BH40		90	2,470	101
						CHM-9-30-95-36-BH40		95	2,125	87
						CHM-9-30-90-36-BH42		90	2,405	99
						CHM-9-30-95-36-BH42		95	2,070	85
						CHM-9-35-80-36-BH40	3500	80	3,010	124
						CHM-9-35-90-36-BH40		90	2,460	101
						CHM-9-35-95-36-BH40		95	2,110	87
						CHM-9-35-90-36-BH42		90	2,395	98
						CHM-9-40-80-36-BH40	4000	80	2,925	120
						CHM-9-40-90-36-BH40		90	2,665	109
						CHM-9-40-95-36-BH40		95	2,335	96
						CHM-9-50-80-36-BH40	5000	80	2,980	122
						CHM-9-50-90-36-BH40		90	2,715	111
						CHM-9-50-95-36-BH40		95	2,345	96

Dynamic COBs

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







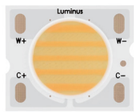
~6mm LES
10.6 W

~9mm LES
11.8 W

~14mm LES
22.9 W

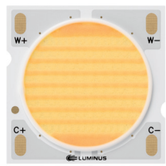
~6mm LES
5 W

~9mm LES
8 W



~14mm LES
24 W

~18mm LES
30 W



~22mm LES
36 W

Warm Dimming						
Product	Part Number	Luminous Efficacy @85°C	Typical Flux @Tj=85°C	CRI (min)	CCT @ Full Brightness	Nominal Power @ Full Brightness
CDM-6	CDM-6-3018-90-18-DWZ1/2-F3-3	up to 119 lm/w	up to 1080 lm	90	3000K	10.8W
	CDM-6-3020-90-18-DWZ1/2-F3-3					
	CDM-6-2718-90-36-DWZ1/2-F3-3	up to 103 lm/w	up to 1060 lm	90		10.8W
	CDM-6-3018-90-36-DWZ1/2-F3-3					
	CDM-6-3020-90-36-DWZ1/2-F3-3					
CDM-9	CDM-9-2718-90-36-DWZ1/2-F3-3	up to 124 lm/w	up to 1350 lm	90		12.6W
	CDM-9-3018-90-36-DWZ1/2-F3-3					
	CDM-9-3020-90-36-DWZ1/2-F3-3					
CDM-14	CDM-14-2718-90-36-DWZ1-F3-3	up to 125 lm/w	up to 2768 lm	90		25.2W
	CDM-14-3018-90-36-DWZ1-F3-3					
	CDM-14-3020-90-36-DWZ1-F3-3					

CCT Tunable							
Product	Part Number	CRI (min)	Nominal Watts per Channel	CCT of Cool White	Nominal Lumens @ Tj=85°C	CCT of Warm White	Nominal Lumens @ Tj=85°C
CTM-6	CTM-6-6527-90-36-TWD6-F3-3	90	5W	6500K	630 lm	2700K	550 lm
	CTM-6-4018-90-36-TWD6-F3-3			4000K	660 lm	1800K	420 lm
	CTM-6-5022-90-36-TWD6-F3-3			5000K Salud	590 lm	2200K	510 lm
CTM-9	CTM-9-6527-90-36-TWD6-F3-3		8W	6500K	1065 lm	2700K	930 lm
	CTM-9-4018-90-36-TWD6-F3-3			4000K	1120 lm	1800K	690 lm
	CTM-9-5022-90-36-TWD6-F3-3			5000K Salud	1005 lm	2200K	855 lm
CTM-14	CTM-14-6527-90-36-TWD6-F3-3		24W	6500K	3080 lm	2700K	2700 lm
	CTM-14-4018-90-36-TWD6-F3-3			4000K	3315 lm	1800K	1940 lm
	CTM-14-5022-90-36-TWD6-F3-3			5000K Salud	2775 lm	2200K	2375 lm
CTM-18	CTM-18-6527-90-36-TWD6-F3-3		30W	6500K	5770 lm	2700K	5080 lm
	CTM-18-4018-90-36-TWD6-F3-3			4000K	5600 lm	1800K	3755 lm
	CTM-18-5022-90-36-TWD6-F3-3			5000K Salud	4760 lm	2200K	4160 lm
CTM-22	CTM-22-6527-90-36-TWD6-F3-3		36W	6500K	6480 lm	2700K	6010 lm
	CTM-22-4018-90-36-TWD6-F3-3			4000K	6440 lm	1800K	4400 lm
	CTM-22-5022-90-36-TWD6-F3-3			5000K Salud	5740 lm	2200K	5040 lm

Mid Power Series

Description:

Luminus midpower LEDs are lighting class solutions designed for high performance general lighting applications. Luminus products boast industry-leading 95 CRI minimum AccuWhite technology in addition to 70, 80, and 90 CRI options, as well as the widest CCT range from 1800K to 6500K. These LEDs allow illumination engineers and designers to develop lighting solutions with maximum efficacy, brightness and overall quality of light.

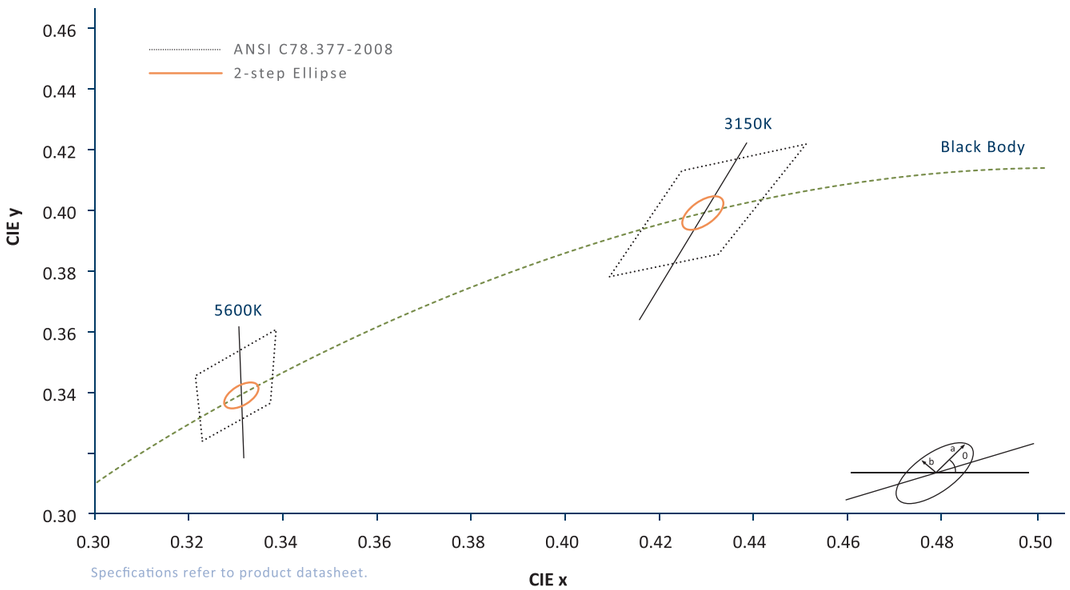
LUX Mid Power KSF Series					
Product	Current (mA)	Voltage (V)	Power (W)	Lumen Typ. 3000K, 90CRI	Efficacy Typ.lm/W 3000K, 90CRI
MP-3030-120K	65	2.68	~0.2	34	195
MP-2835-120K	65	2.75	~0.2	37	207

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-3030-210H	150	6	~ 1	140	156
MP-5050-240H	640	6.2	~ 4	630	159
MP-5050-250R	640	5.95	~ 4	640	168
MP-5050-240E	180	5.5	~ 1	209	209
MP-5050-810H	200	24.5	~ 5	785	164
MP-5050-810E	45	22	~ 1	209	209
MP-7070-4600	700	12	8.4	1,380	164
MP-7070-T200	240	36	8.64	1,380	160
MP-2835-120K	65	2.69	0.175	36 (90CRI)	206 (90CRI)
MP-3030-120K	65	2.68	0.174	34 (90CRI)	195 (90CRI)
MP-3030-11F2	65	2.65	0.17	37	215
MP-5050-240P	180	5.4	0.972	205	211
MP-5050-810P	45	21.6	0.972	205	211

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:



Specfications refer to product datasheet.

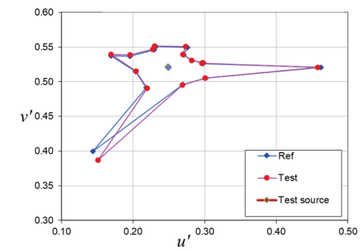
Studio											
Product	Typ.~Max. Current (A)	Voltage (V)	Typ.~Max. Power (W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Typical Lumen (Tj=85°C)	Efficacy LPW
CVM-32	5 ~ 6	55	214 ~ 340	32.8	0.10	38 × 38	CVM-32-31-95-54-TC40	3150	95	28,100	102
							CVM-32-56-95-54-TC42	5600	95	30,000	109
CVM-45	5 ~ 10	57	285 ~ 600	45.0	0.10	55 × 55	CVM-45-31-95-60-BA40	3150	95	32,700	115
							CVM-45-56-95-60-BA42	5600	95	35,000	123
CVM-53	6 ~ 13	86	504 ~ 1,200	53.0	0.05	85 × 65	CVM-53-31-95-90-BA50	3150	95	53,000	103
							CVM-53-56-95-90-BA52	5600	95	64,000	124

Quality of Light Metrics

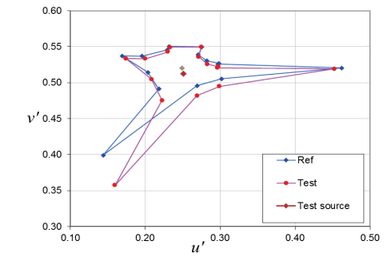
GAI :

- Color Vivid

Luminus 3000K CRI95 GAI_BB$_{15}$ Calculation



Luminus 3000K CRI90 Sensus GAI_BB$_{15}$ Calculation

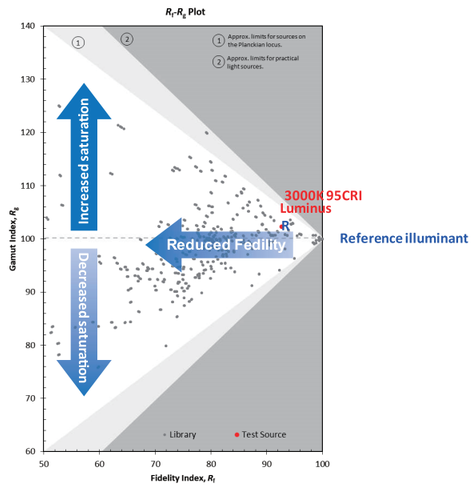


- CCT:3040K
- CRI:95
- R9:83
- CQS:94
- GAI_BB$_{15}$:104

- CCT:3046K
- CRI:92
- R9:64
- CQS:88
- GAI_BB$_{15}$: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)



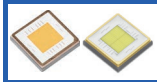
High Power White SMD

- Product line ranging from 1W to over 100W
- Monolithic emitters for best directionality and artifact-free far field
- SST series delivers superior directionality and throw distance
- SFT series is ideal for maximum throw distance or applications requiring optical coupling
- SBT series features a large, monolithic chip with uniform emitting area of 9mm^2 and an extremely high optical output with up to 5,400 lumens at 18A from a single chip

Applications:

- Premium Portable Lighting
- Indoor Directional Lighting
- Stage and Studio Lighting
- Outdoor Directional Lighting
- Automotive Aftermarket
- LED Work Lights
- Machine Vision

HIGH POWER WHITE SMD LEDs

Image	Product	CCT	CRI	Package (mm)		Viewing Angle	DC Current (Typ. ~ Max.)	Luminus Flux (Min. ~ Max.)
	SFT-12R-W-A	5000K - 6500K 2700K - 5700K	70 70, 80, 90	SMT	3.45 x 3.45 x 0.91	120°	1.5 ~ 3 A	520 ~ 610 lm @ 1.5 A Contact Luminus
	SFT-12R-W-F	5000K - 6500K	70	SMT	5.00 x 5.00 x 1.03	120°	1.5 ~ 3 A	520 ~ 610 lm @ 1.5 A
	SFT-25R-W-A	5000K - 6500K 2700K - 5700K	70 70, 80, 90	SMT	3.45 x 3.45 x 0.91	120°	1.5 ~ 7.5 A 1.5 ~ 5.0 A	610 ~ 680 lm @ 1.5 A Contact Luminus
	SFT-25R-W-F	5000K - 6500K	70	SMT	5.00 x 5.00 x 1.03	120°	1.5 ~ 7.5 A	610 ~ 680 lm @ 1.5 A
	SFT-40-W	5000K - 6500K 2700K - 5700K	70 80, 90	SMT	5.00 x 5.00 x 1.03	120°	1.5 ~ 8 A 1.5 ~ 4 A	610 ~ 680 lm @ 1.5 A 395 ~ 610 lm @ 1.5 A
	SFT-70X-W	4000K - 6500K 2700K - 5700K	70 90	SMT	5.00 x 5.00 x 1.03	120°	0.75 ~ 3.5 A (12V) 0.75 ~ 2.0 A (12V)	1135 ~ 1375 lm @ 0.5 A 760 ~ 995 lm @ 0.75 A
	SBT-90-W Gen 2	5700K	Min. 65, Typ. 70	SMT	11.00 x 10.00 x 1.54	120°	9 ~ 18 A	3100 ~ 5400 lm @ 9 A
	SST-12-W	5000K - 6500K 2700K - 4000K	70 95	SMT	3.45 x 3.45 x 2.00	120°	0.7 ~ 2.4 A 0.35 ~ 1.5 A	285 ~ 324 lm @ 0.7 A 93 ~ 130 lm @ 0.35 A
	SST-20-W	5000K - 6500K 2700K - 4000K	70 95	SMT	3.45 x 3.45 x 1.98	120°	1.5 ~ 3 A 0.35 ~ 2 A	610 ~ 720 lm @ 1.5 A 107 ~ 142 lm @ 0.35 A
	SST-20V-W	1800K - 6500K	70, 80, 90, 95	SMT	3.45 x 3.45 x 2.13	118°	0.7 ~ 3 A	202 ~ 395 lm @ 0.7 A
	SST-20F-W-AL	2700K - 6500K	70, 80, 90, 95	SMT	3.55 x 3.55 x 2.30	120°	0.7 ~ 1.5 A	192 ~ 395 lm @ 0.7 A
	SST-20F-W-AH	5000K - 6500K	70	SMT	3.55 x 3.55 x 2.30	120°	0.7 ~ 2.5 A	340 ~ 395 lm @ 0.7 A
	SST-25-W	5000K - 6500K	70	SMT	3.55 x 3.55 x 2.30	120°	1.5 ~ 3.75 A	640 ~ 760 lm @ 1.5 A
	SST-36F-W-AL	5000K - 6500K	70	SMT	3.55 x 3.55 x 2.30	120°	1.5 ~ 3 A	680 ~ 815 lm @ 1.5 A
	SST-40-WS	5000K - 6500K	70	SMT	5.00 x 5.00 x 3.01	120°	1.5 ~ 6 A	640 ~ 760 lm @ 1.5 A
	SST-70X-WS	6500K	70	SMT	5.00 x 5.00 x 3.01	135°	1.5 ~ 5.25 A (6V) 0.75 ~ 2.625 A (12V)	1200 ~ 1370 lm @ 1.5 A

Recommended CCTs for Applications

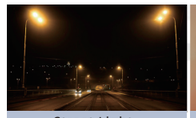
- For your actual applications, please feel free to contact us for more suitable recommendations.

Light Color 1800K Custom Colors
Warm White | Bright White | Daylight


Raw Beef


Lean Meat

Light Color 2200K Outdoor
Warm White | Bright White | Daylight

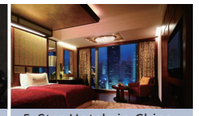

Street Light


5-Star Hotels in Europe

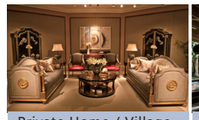
Light Color 2400K Custom Colors
Warm White | Bright White | Daylight


Bakery Displays


Gold Jewellery


5-Star Hotels in China

Light Color 2700K Hospitality, CubePower
Warm White | Bright White | Daylight


Private Home / Village


Hospitality


Club

Light Color 3000K Sensus, Salud
Warm White | Bright White | Daylight


Fast Fashion

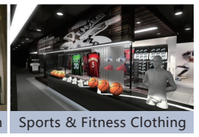

High End Fashion


Shopping Mall

Light Color 3000K Sensus
Warm White | Bright White | Daylight


Casual Outfits for Men

Business Attire for Women


Sports & Fitness Clothing

Light Color 3000K and 4000K Extreme Sensus
Warm White | Bright White | Daylight


Fruit and Vegetables


Atmosphere with Pink Color Tone


Atmosphere with Hyacinthine Color Tone


Marbled Pork

Light Color 3200K Custom Colors
Warm White | Bright White | Daylight

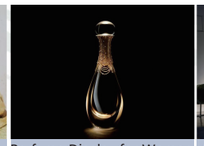

Museum

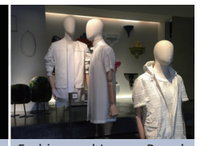

Chinese Crystal


Natural Atmosphere

Light Color 3200K Custom Colors
Warm White | Bright White | Daylight


Ceramic Art


Perfume Display for Women


Fashion and Luxury Brand

Light Color 3500K Hospitality
Warm White | Bright White | Daylight


Stylish Formal Suits


Classic Car Showroom


Jade Jewelry

Light Color 4000K Ultra-High Density
Warm White | Bright White | Daylight

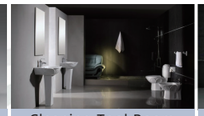

Nephrite Jewelry

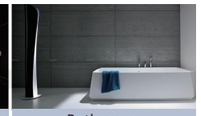

Crystal Decorations

Perfume Display for Men

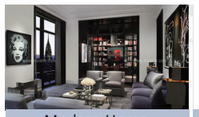
Light Color 5000K Ultra-High Density, Salud
Warm White | Bright White | Daylight


Ceramics

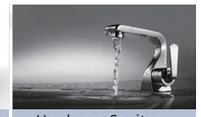

Cleaning Tool Room


Bathroom

Light Color 5600K Custom Colors
Warm White | Bright White | Daylight

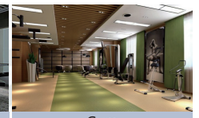

Modern Home


Hardware Arts


Hardware Sanitary

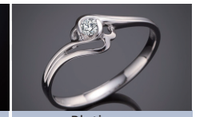
Light Color 6500K CubePower Outdoor
Warm White | Bright White | Daylight


Office


Gym

Light Color 8000K Custom Colors
Warm White | Bright White | Daylight


Diamond


Platinum

Custom Colors

1800K, 1900K, 3000K, & 4000K (Fresh Produce Retail Lighting)

Product	Current (mA)	Power (W)	CCT (K)	CRI (Ra)
CLM-14	500 ~ 1,600	16.0 ~ 58.0	1900 3000	70
CLM-22	1,150 ~ 3,200	35.0 ~ 117.0	1800 1900 3000 4000	70

2400K （Upscale Hotel & Bread Lighting）

Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI_BB$_{15}$	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 ~ 1,080	15.0 ~ 40.0	92	90	98	91	100	1,745
CXM-14-24-90-36-AC30	14.3	720 ~ 1,440	24.5 ~ 54.0	92	90	98	91	100	2,700
CLM-22-24-90-36-AC30	22.0	1,100 ~ 2,200	38.0 ~ 82.0	92	90	98	91	100	4,310

3200K （Museum & Natural Atmosphere Lighting）

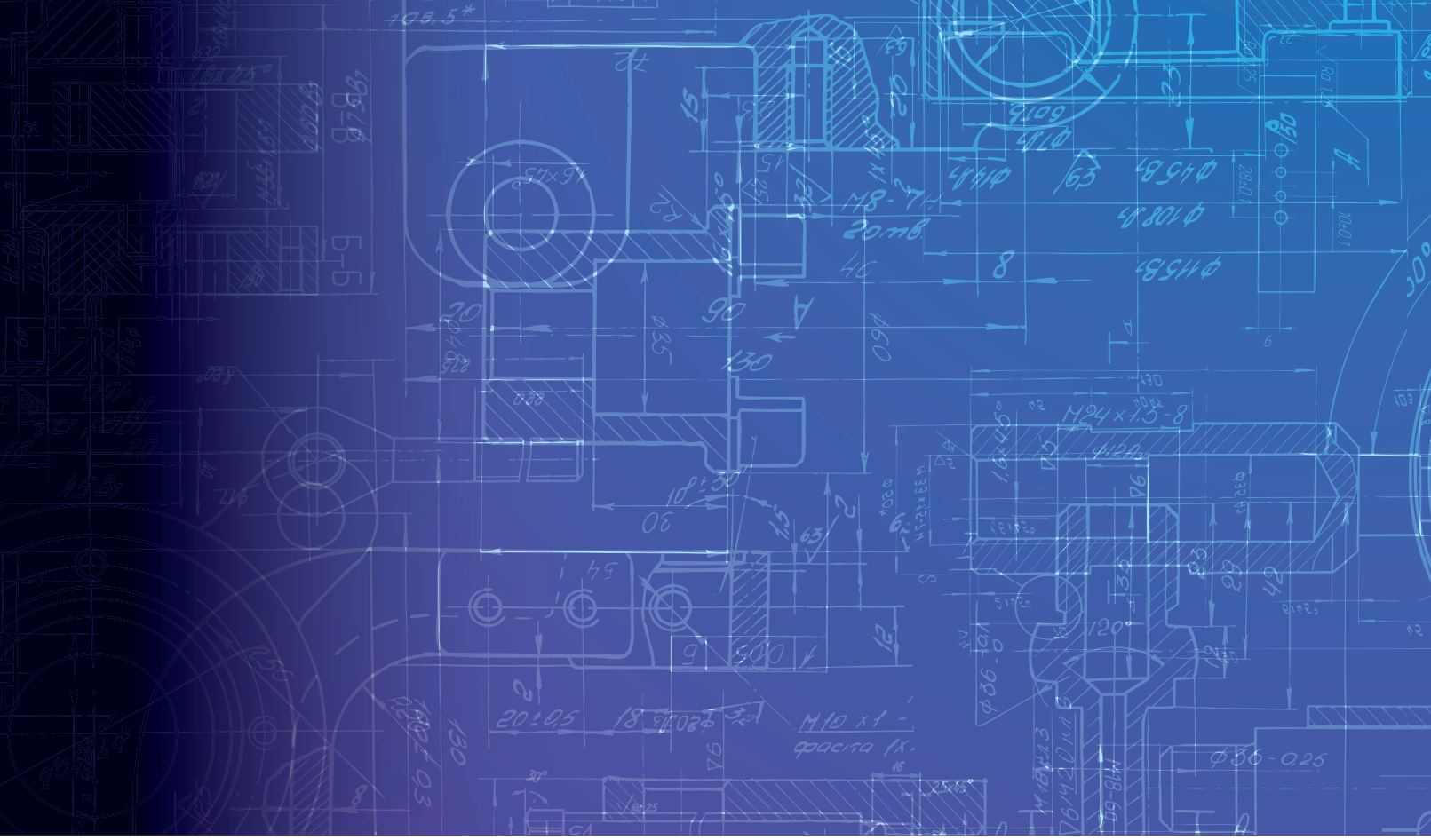
Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI_BB$_{15}$	Rf	Rg	Lumen (lm)
CXM-6-32-95-36-AA30	6.3	150 ~ 325	5.2 ~ 11.8	83	95	102	93	100	555
CHM-9-32-95-36-XD20	9.6	360 ~ 960	12.2 ~ 37.4	83	95	102	93	100	1,335
CXM-11-32-95-36-AA30	11.7	450 ~ 1,080	15.2 ~ 40.5	83	95	102	93	100	1,800
CXM-14-32-95-36-AA30	14.3	720 ~ 1,440	24.5 ~ 54.0	83	95	102	93	100	2,850

5600K （Modern Home & Hardware Lighting）

Part Number	Size (mm)	Current (mA)	Power (W)	CQS	CRI (Ra)	GAI_BB$_{15}$	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_BB$_{15}$	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



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