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Luminus Product Catalog

General Lighting

2019.V2

www.luminus.com

 **LUMINUS**
IMPROVING LIFE WITH PHOTONS

Company Introduction

- 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

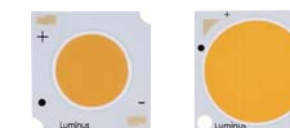
Light for Working

- Solutions ranging from Ultra-Violet to Infrared with input powers from 1W to over 100W
- High-intensity specialty LED (up to 5A/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

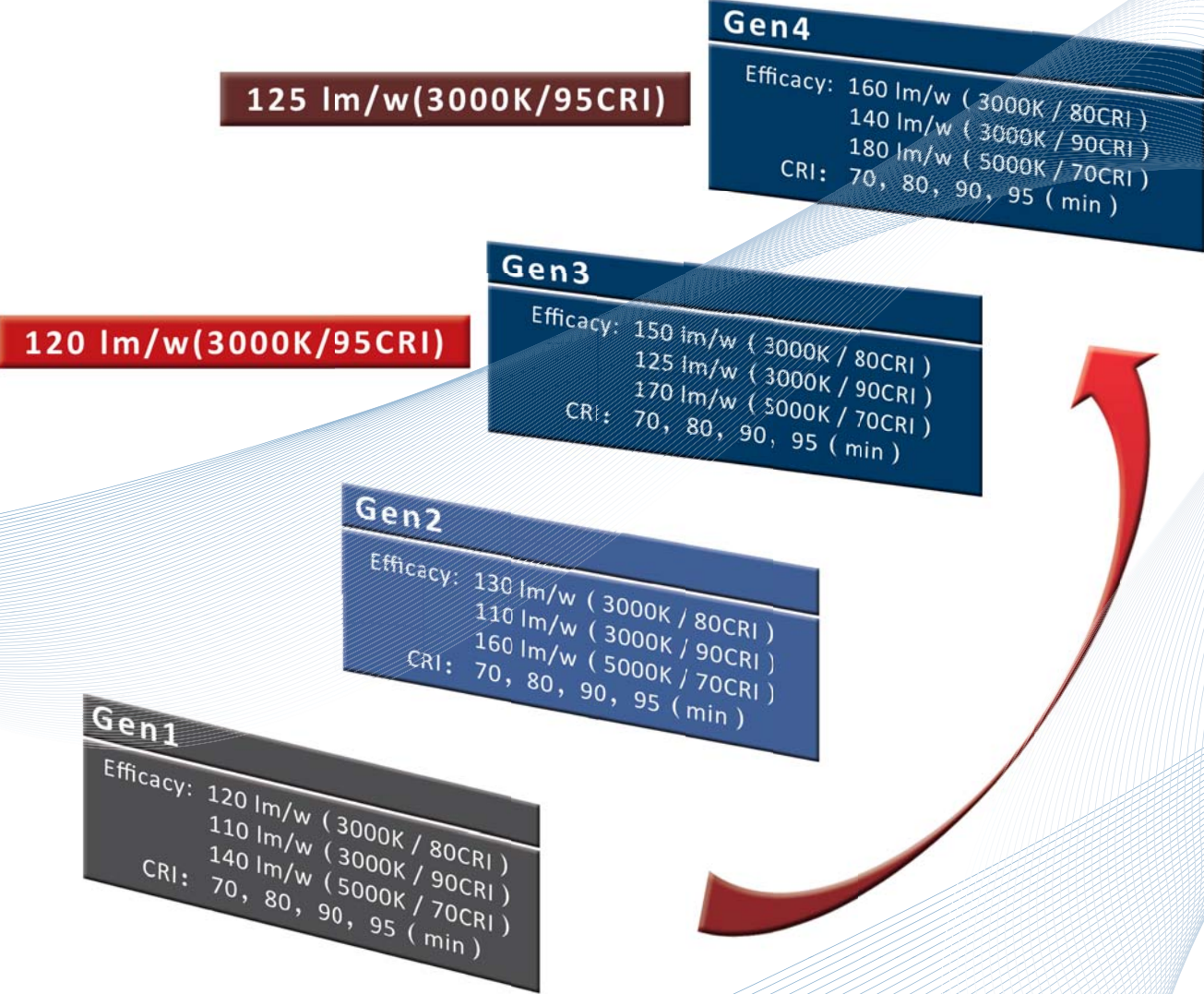


Light for Living

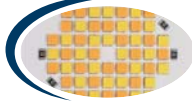
- High quality of light and industry-leading efficacy engineered in Silicon Valley
- Widest range of COB sizes and CCT/CRI combinations
- Unique 1616 midpower LEDs with wide viewing angle and 95+ CRI
- Dynamic COBs for human centric lighting
- Unique and custom spectra available



COB Product evolution(Tj=85°C)



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Product Nomenclature

CXM-6-27-80-36-AA00

Product Family:CXM

LES:6mm.

CCT:2700K

— Voltage: 36V

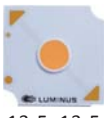
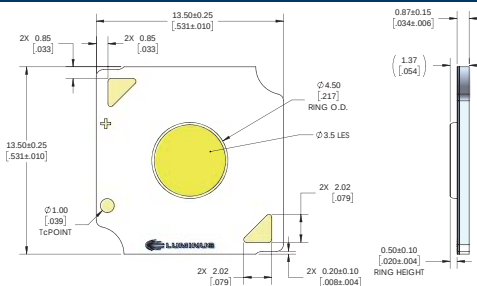
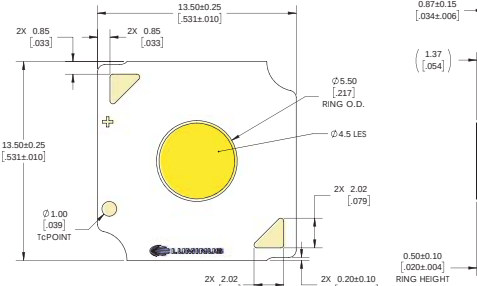
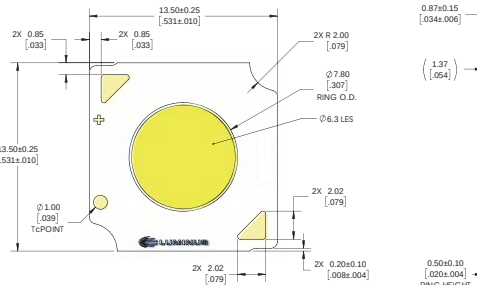
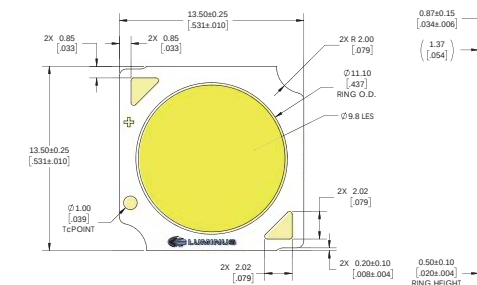
- CRI:80

Package

Configurator:AA00

COB Product Size

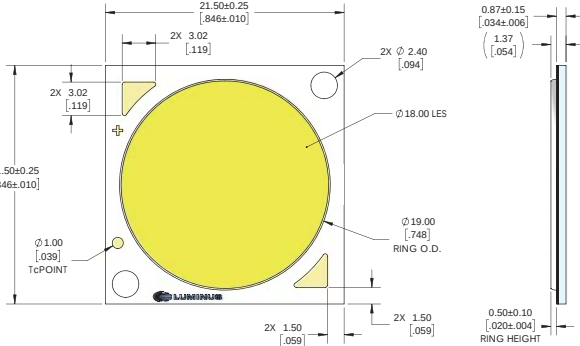
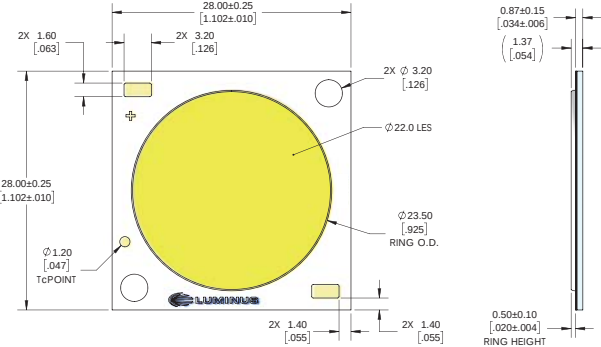
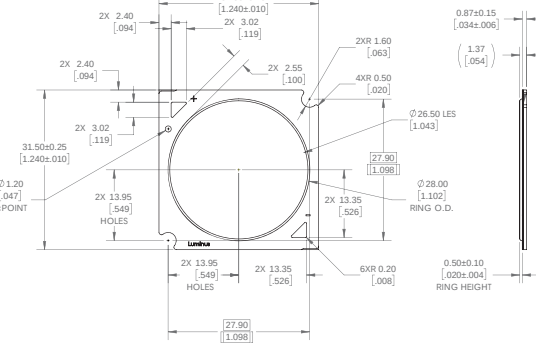
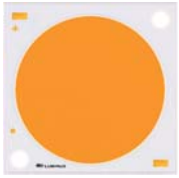
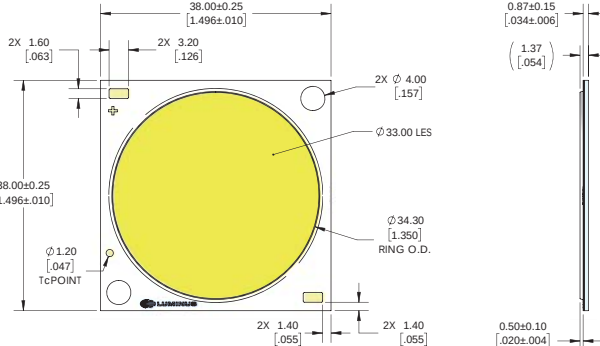
1. Unless otherwise specified, tolerance is $\pm 0.3\text{mm}$
2. Luminus designed a complex, unique phosphor ring. The Generation 4 LES diameter is defined consistent with industry practices and aligned to optical characteristics. The LES diameter is not measured at the surface of the phosphor layer. 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	

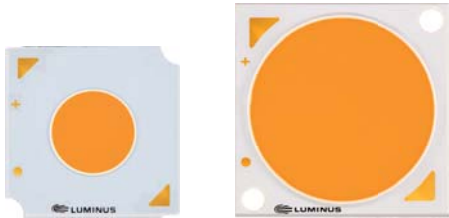
COB Product Size

Product Family	Size(mm)	LES(mm)	Mechanical Dimensions
CXM-18-AA40	 21.5X21.5	18	
CIM-22-AC40 CLM-22-AC40 CXM-22-AC40 CGM-22-AC40	 28X28	22	
CXM-27-AB30	 31.5X31.5	26.5	
CXM-32-AC40	 38X38	33	

4th Generation COB

Description:

The Luminus Generation 4 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 1,000 to over 40,000lm. All Gen4 COBs deliver 160LPW(3000K,80CRI)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.

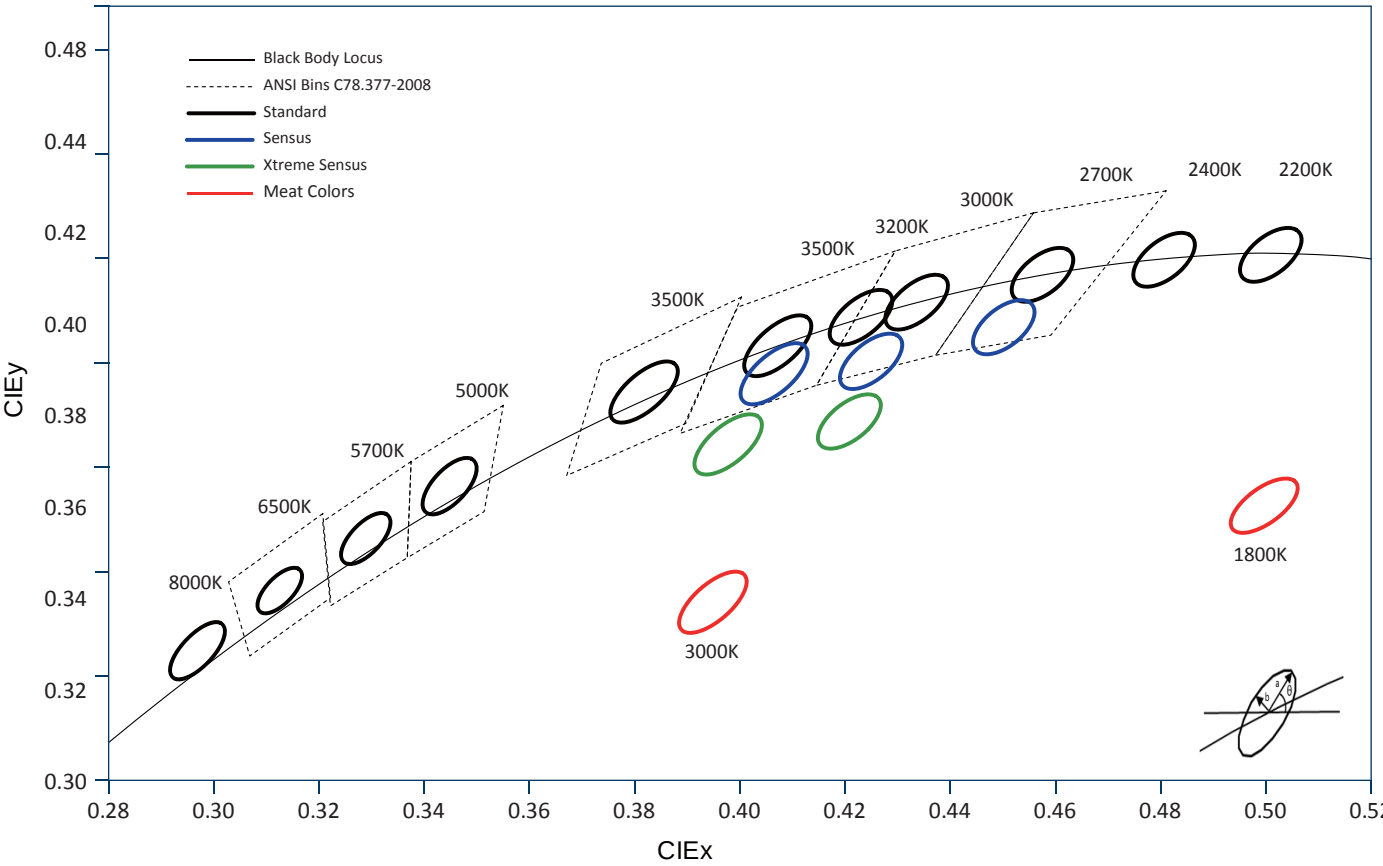


Applications:

- Spot and track lighting
- Shop and retail lighting
- Directional, high color rendering
- Hospitality and office space
- Halogen/CMH replacements
- PARs, BRs, MR16s, AR111
- Industrial high bay-
- Outdoor area and roadway
- Architectural and landscape

Features:

- Lumen : 1,000~40,000lm (Tj=85°C)
- Efficacy : 160LPW(3000K/80CRI, Tj=85°C) 170LPW(5000K/80CRI, Tj=85°C)
- CCT: 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 5700K, 6500K
- CRI : 70, 80, 90, 95 (min)
- SCDM : <3 step
- Max Tc : 120°C
- Max Tj : 140°C
- Note: CLM-9/CXM-9/CLM-14/CXM-14 AC/AA version available



CXM-3										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							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
							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
							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
							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
							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-4										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							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
							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
							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
							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
							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

CXM-6										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							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
							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
							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
							95	CXM-6-40-95-36-AC40	640	128
						5000	70	CXM-6-50-70-36-AC40	850	170
							80	CXM-6-50-80-36-AC40	840	168
							90	CXM-6-50-90-36-AC40	705	141
							95	CXM-6-50-95-36-AC40	620	124
						5700	70	CXM-6-57-70-36-AC40	850	170
							80	CXM-6-57-80-36-AC40	830	166
						6500	70	CXM-6-65-70-36-AC40	845	169
							80	CXM-6-65-80-36-AC40	820	164

CIM-9										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							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
							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
							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
							95	CIM-9-40-95-36-AC40	790	130
						5000	70	CIM-9-50-70-36-AC40	1,055	173
							80	CIM-9-50-80-36-AC40	1,040	170
							90	CIM-9-50-90-36-AC40	875	143
							95	CIM-9-50-95-36-AC40	765	125
						5700	70	CIM-9-57-70-36-AC40	1,055	173
							80	CIM-9-57-80-36-AC40	1,025	168
						6500	70	CIM-9-65-70-36-AC40	1,050	172
							80	CIM-9-65-80-36-AC40	1,020	167

CLM-9										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
						2700	80	CLM-9-27-80-36-AC40	1,270	153
							90	CLM-9-27-90-36-AC40	1,045	126
							95	CLM-9-27-95-36-AC40	980	118
							80	CLM-9-30-80-36-AC40	1,310	158
						3000	90	CLM-9-30-90-36-AC40	1,110	134
							95	CLM-9-30-95-36-AC40	1,020	123
							80	CLM-9-35-80-36-AC40	1,360	164
						3500	90	CLM-9-35-90-36-AC40	1,155	139
							95	CLM-9-35-95-36-AC40	1,100	133
							70	CLM-9-40-70-36-AC40	1,405	169
						4000	80	CLM-9-40-80-36-AC40	1,385	167
							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
							70	CLM-9-57-70-36-AC40	1,420	171
						5700	80	CLM-9-57-80-36-AC40	1,380	166
							70	CLM-9-65-70-36-AC40	1,410	170
						6500	80	CLM-9-65-80-36-AC40	1,370	165

CXM-9										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
						2700	80	CXM-9-27-80-36-AC40	1,800	149
							90	CXM-9-27-90-36-AC40	1,480	122
							95	CXM-9-27-95-36-AC40	1,385	114
						3000	80	CXM-9-30-80-36-AC40	1,855	153
							90	CXM-9-30-90-36-AC40	1,570	130
							95	CXM-9-30-95-36-AC40	1,445	119
						3500	80	CXM-9-35-80-36-AC40	1,930	160
							90	CXM-9-35-90-36-AC40	1,640	136
							95	CXM-9-35-95-36-AC40	1,555	129
						4000	70	CXM-9-40-70-36-AC40	1,990	164
							80	CXM-9-40-80-36-AC40	1,960	162
							90	CXM-9-40-90-36-AC40	1,660	137
							95	CXM-9-40-95-36-AC40	1,510	125
						5000	70	CXM-9-50-70-36-AC40	2,015	167
							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

CXM-11										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(85°C)	Efficacy (LPW)
450~1300	33.6	15.1~49.3	11.9	0.29	19*19	2400	90	CXM-11-24-90-36-AA40	1,795	119
						2700	80	CXM-11-27-80-36-AA40	2,320	154
							90	CXM-11-27-90-36-AA40	1,905	126
							95	CXM-11-27-95-36-AA40	1,785	118
						3000	80	CXM-11-30-80-36-AA40	2,390	158
							90	CXM-11-30-90-36-AA40	2,020	134
							95	CXM-11-30-95-36-AA40	1,865	124
						3500	80	CXM-11-35-80-36-AA40	2,480	164
							90	CXM-11-35-90-36-AA40	2,110	140
							95	CXM-11-35-95-36-AA40	2,005	133
						4000	70	CXM-11-40-70-36-AA40	2,565	170
							80	CXM-11-40-80-36-AA40	2,525	167
							90	CXM-11-40-90-36-AA40	2,135	141
							95	CXM-11-40-95-36-AA40	1,940	128
						5000	70	CXM-11-50-70-36-AA40	2,590	172
							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

CIM-14										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
						2700	80	CIM-14-27-80-36-AC40	2,380	156
							90	CIM-14-27-90-36-AC40	1,955	128
							95	CIM-14-27-95-36-AC40	1,830	120
						3000	80	CIM-14-30-80-36-AC40	2,450	160
							90	CIM-14-30-90-36-AC40	2,070	135
							95	CIM-14-30-95-36-AC40	1,910	125
						3500	80	CIM-14-35-80-36-AC40	2,545	166
							90	CIM-14-35-90-36-AC40	2,160	141
							95	CIM-14-35-95-36-AC40	2,055	134
						4000	70	CIM-14-40-70-36-AC40	2,630	172
							80	CIM-14-40-80-36-AC40	2,590	169
							90	CIM-14-40-90-36-AC40	2,190	143
							95	CIM-14-40-95-36-AC40	1,990	130
						5000	70	CIM-14-50-70-36-AC40	2,655	174
							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										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							80	CLM-14-30-80-36-AC40	2,720	164
						3000	90	CLM-14-30-90-36-AC40	2,300	139
							95	CLM-14-30-95-36-AC40	2,120	128
							80	CLM-14-35-80-36-AC40	2,825	170
						3500	90	CLM-14-35-90-36-AC40	2,400	145
							95	CLM-14-35-95-36-AC40	2,280	137
							70	CLM-14-40-70-36-AC40	2,920	176
						4000	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
							70	CLM-14-50-70-36-AC40	2,950	178
						5000	80	CLM-14-50-80-36-AC40	2,910	175
							90	CLM-14-50-90-36-AC40	2,450	148
							95	CLM-14-50-95-36-AC40	2,145	129
							70	CLM-14-57-70-36-AC40	2,950	178
						5700	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										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(85°C)	Efficacy (LPW)
720~2000	33.8	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
							95	CXM-14-50-95-36-AC40	3,085	128
						5700	70	CXM-14-57-70-36-AC40	4,245	176
							80	CXM-14-57-80-36-AC40	4,130	171
						6500	70	CXM-14-65-70-36-AC40	4,215	175
							80	CXM-14-65-80-36-AC40	4,095	170

CGM-14										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							95	CGM-14-50-95-36-AC40	3,715	122
						5700	70	CGM-14-57-70-36-AC40	5,110	168
							80	CGM-14-57-80-36-AC40	4,970	163
						6500	70	CGM-14-65-70-36-AC40	5,075	167
							80	CGM-14-65-80-36-AC40	4,925	162

CXM-18										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(85°C)	Efficacy (LPW)
800~2500	33.5	26.8~93.8	18	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
							95	CXM-18-30-95-36-AA40	3,435	128
						3500	80	CXM-18-35-80-36-AA40	4,580	171
							90	CXM-18-35-90-36-AA40	3,890	145
							95	CXM-18-35-95-36-AA40	3,695	138
						4000	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
							95	CXM-18-40-95-36-AA40	3,585	134
						5000	70	CXM-18-50-70-36-AA40	4,785	179
							80	CXM-18-50-80-36-AA40	4,720	176
							90	CXM-18-50-90-36-AA40	3,970	148
							95	CXM-18-50-95-36-AA40	3,480	130
						5700	70	CXM-18-57-70-36-AA40	4,785	179
							80	CXM-18-57-80-36-AA40	4,655	174
						6500	70	CXM-18-65-70-36-AA40	4,750	177
							80	CXM-18-65-80-36-AA40	4,615	172

CIM-22										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(85°C)	Efficacy (LPW)
990~3000	33.5	33.2~112.5	22	0.17	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
							70	CIM-22-65-70-36-AC40	5,900	178
						6500	80	CIM-22-65-80-36-AC40	5,725	172

CLM-22										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(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
							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
							70	CLM-22-65-70-36-AC40	6,330	180
						6500	80	CLM-22-65-80-36-AC40	6,145	175

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

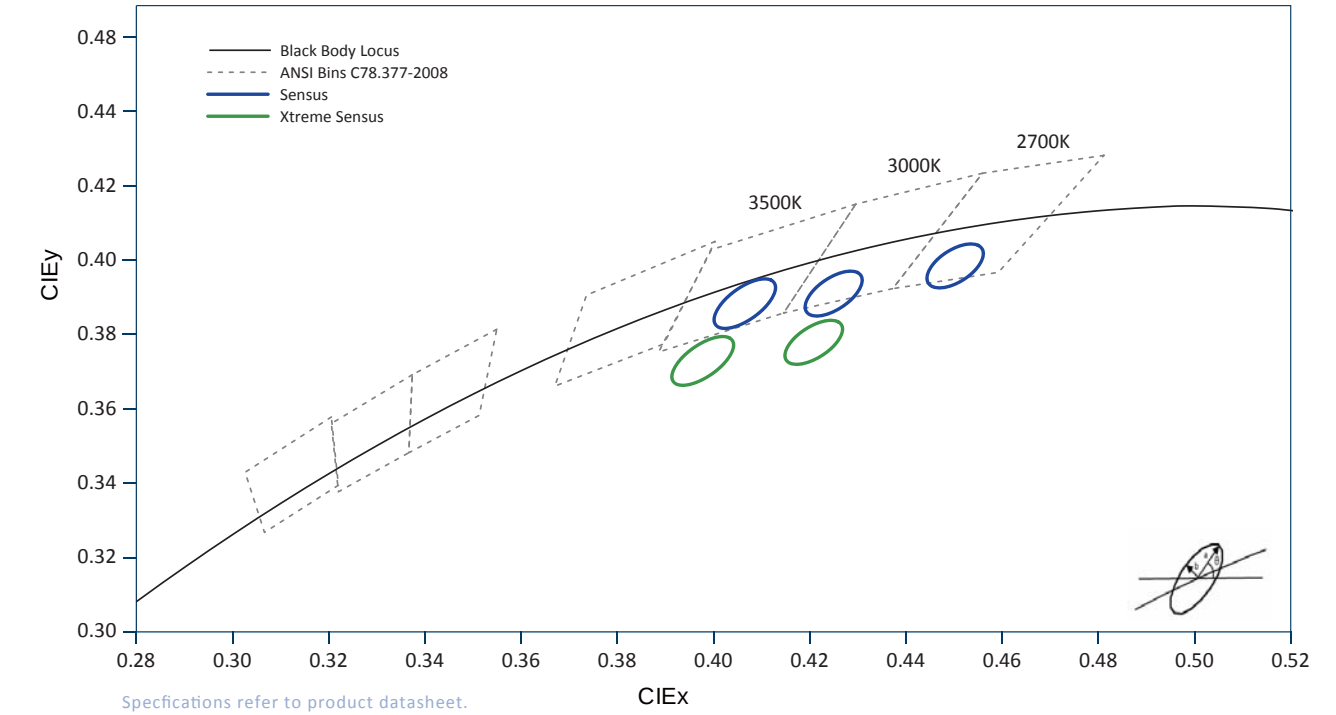
CGM-22										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(85°C)	Efficacy (LPW)
1600~4000	51	81.6~224	22	0.11	28*28	2200	70	CGM-22-22-70-54-AC40	11,415	141
							80	CGM-22-27-80-54-AC40	12,455	154
						2700	90	CGM-22-27-90-54-AC40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

CXM-32										
Current (Typ.~Max.mA)	Voltage (V)	Power (Typ.~Max.W)	LES	Rth (°C/W)	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ.(85°C)	Efficacy (LPW)
2400~5000	51	122.4~280	33	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
						3000	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
						3500	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
						4000	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
						5000	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
						5700	95	CXM-32-50-95-54-AC40	15,300	124
							70	CXM-32-57-70-54-AC40	21,040	171
						6500	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™ White COB

- 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)



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

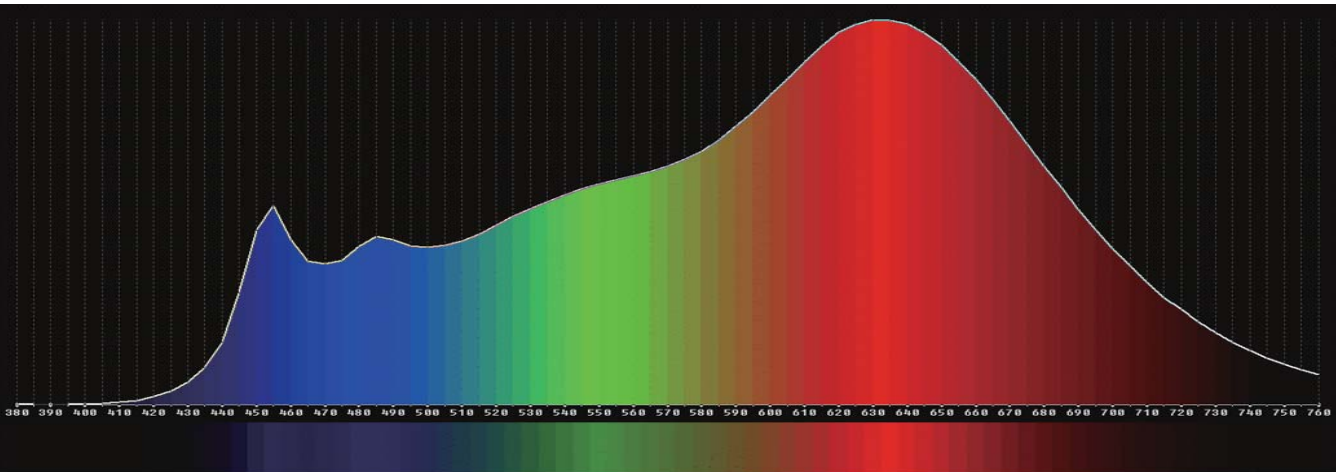
Xtreme Sensus										
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Size (mm)	CCT (K)	CRI	Part Nmuber	Lumen Typ. (85°C)	Efficacy (LPW)
CXM-6	150~450	33.3	5~17.1	6.5	13.5*13.5	3000	90	CXM-6-30-90-18-AC44	640	128
						3500	90	CXM-6-35-90-18-AC44	670	134
CIM-9	180~700	33.3	6.1~29.4	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	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
CIM-9	180~360	33.8	6.1~13.2	9.6	0.7	13.5*13.5(AC34)	CIM-9-30-90-36-AC34	3,000	90	620	102
							CIM-9-35-90-36-AC34	3,500	90	635	104
CXM-9	360~720	34	12.2~27.0	9.6	0.5	13.5*13.5(AC34)	CXM-9-30-90-36-AC34	3,000	90	1,235	101
							CXM-9-35-90-36-AC34	3,500	90	1,260	103
CXM-11	450~1,080	33.8	15.2~40.5	11.6	0.35	19*19(AC) 18.5*18.5(AA)	CXM-11-30-90-36-AC34	3,000	90	1,580	104
							CXM-11-35-90-36-AC34	3,500	90	1,615	106
CIM-14	450~1,080	34	15~40	14.3	0.32	19*19(AC)	CIM-14-30-90-36-AC34	3,000	90	1,605	107
							CIM-14-35-90-36-AC34	3,500	90	1,640	109
CLM-14	500~1,260	33.8	17~47	14.3	0.31	19*19(AC) 18.5*18.5(AA)	CLM-14-30-90-36-AC34	3,000	90	1,640	96
							CLM-14-35-90-36-AC34	3,500	90	1,670	98
CXM-14	720~1,440	34	24.5~54	14.3	0.27	19*19(AC) 18.5*18.5(AA)	CXM-14-30-90-36-AC34	3,000	90	2,520	103
							CXM-14-35-90-36-AC34	3,500	90	2,570	105
CXM-18	900~1,800	34	30.6~64	17.5	0.21	21.5*21.5 (AA34)	CXM-18-30-90-36-AA34	3,000	90	3,575	117
							CXM-18-35-90-36-AA34	3,500	90	3,645	119
CLM-22	1,100~2,200	33.8	37.2~82	22	0.19	28*28 (AC34)	CLM-22-30-90-36-AC34	3,000	90	3,750	101
							CLM-22-35-90-36-AC34	3,500	90	3,830	103



Perfect White											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth ($^{\circ}\text{C}/\text{W}$)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85 $^{\circ}\text{C}$)	Efficacy LPW
CXM-6	300~450	17	5.2~8.1	6.3	0.96	13.5*13.5	CXM-6-30-90-18-PC32	3,000	90	450	87
CXM-9	360~540	33.8	12.2~19	9.6	0.5	13.5*13.5	CXM-9-30-90-36-PC32	3,000	90	1,155	95
CXM-11	450~675	33.8	15.2~24	11.7	0.35	19*19	CXM-11-30-90-36-PC32	3,000	90	1,445	95
CXM-14	720~1080	34	25.4~38	14.3	0.27	19*19	CXM-14-30-90-36-PC32	3,000	90	2,310	91
CLM-22	1,050~1,575	34.7	36.2~56.5	22	0.19	28*28	CLM-22-30-90-36-PC32	3,000	90	3,685	99



Outdoor COB

- 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	28*28	1050~3500	31~33.5~37	35.2~131.3	0.19	5,225	148
	CXM-22-22-70-54-AC40	22	28*28	1050~3500	48~51~55	53.6~196	0.17	7,705	147
	CGM-22-22-70-54-AC40	22	28*28	1600~4000	48~51~55	81.6~224	0.15	11,415	141
	CXM-32-22-70-54-AC40	33	38*38	2400~5000	48~51~55	122.4~280	0.11	17,260	140
3000K	CGM-14-30-70-36-AC40	14.5	19*19	900~2300	31~33.8~37	30.4~86.3	0.24	4,855	160
	CXM-18-30-70-36-AA40	18	21.5*21.5	800~2500	31~33.5~37	26.8~93.8	0.21	4,550	170
	CIM-22-30-70-36-AC40	22	28*28	990~3000	31~33.5~37	33.2~112.5	0.2	5,645	170
	CLM-22-30-70-36-AC40	22	28*28	1050~3500	31~33.5~37	35.2~131.3	0.19	6,060	172
	CXM-22-30-70-54-AC40	22	28*28	1050~3500	48~51~55	53.6~196	0.17	8,930	171
	CGM-22-30-70-54-AC40	22	28*28	1600~4000	48~51~55	81.6~224	0.15	13,230	163
	CXM-32-30-70-54-AC40	33	38*38	2400~5000	48~51~55	122.4~280	0.11	20,005	163
4000K	CGM-14-40-70-36-AC40	14.5	19*19	900~2300	31~33.8~37	30.4~86.3	0.24	5,055	166
	CXM-18-40-70-36-AA40	18	21.5*21.5	800~2500	31~33.5~37	26.8~93.8	0.21	4,735	177
	CIM-22-40-70-36-AC40	22	28*28	990~3000	31~33.5~37	33.2~112.5	0.2	5,880	177
	CLM-22-40-70-36-AC40	22	28*28	1050~3500	31~33.5~37	35.2~131.3	0.19	6,305	179
	CXM-22-40-70-54-AC40	22	28*28	1050~3500	48~51~55	53.6~196	0.17	9,295	178
	CGM-22-40-70-54-AC40	22	28*28	1600~4000	48~51~55	81.6~224	0.15	13,775	170
	CXM-32-40-70-54-AC40	33	38*38	2400~5000	48~51~55	122.4~280	0.11	20,825	169
5000K	CGM-14-50-70-36-AC40	14.5	19*19	900~2300	31~33.8~37	30.4~86.3	0.24	5,110	168
	CXM-18-50-70-36-AA40	18	21.5*21.5	800~2500	31~33.5~37	26.8~93.8	0.21	4,785	179
	CIM-22-50-70-36-AC40	22	28*28	990~3000	31~33.5~37	33.2~112.5	0.2	5,940	179
	CLM-22-50-70-36-AC40	22	28*28	1050~3500	31~33.5~37	35.2~131.3	0.19	6,370	181
	CXM-22-50-70-54-AC40	22	28*28	1050~3500	48~51~55	53.6~196	0.17	9,390	180
	CGM-22-50-70-54-AC40	22	28*28	1600~4000	48~51~55	81.6~224	0.15	13,915	172
	CXM-32-50-70-54-AC40	33	38*38	2400~5000	48~51~55	122.4~280	0.11	21,040	171
5700K	CGM-14-57-70-36-AC40	14.5	19*19	900~2300	31~33.8~37	30.4~86.3	0.22	5,110	171
	CXM-18-57-70-36-AA40	17.5	21.5*21.5	800~2500	31~33.5~37	26.8~93.8	0.17	4,785	181
	CIM-22-57-70-36-AC40	22	28*28	990~3000	31~33.5~37	33.2~112.5	0.16	5,940	181
	CLM-22-57-70-36-AC40	22	28*28	1050~3500	31~33.5~37	35.2~131.3	0.14	6,370	183
	CXM-22-57-70-54-AC40	22	28*28	1050~3500	48~51~55	53.6~196	0.12	9,390	177
	CGM-22-57-70-54-AC40	22	28*28	1600~4000	48~51~55	81.6~224	0.11	13,915	172
	CXM-32-57-70-54-AC40	32.8	38*38	2400~5000	48~51~55	122.4~280	0.07	21,040	174
6500K	CGM-14-65-70-36-AC40	14.5	19*19	900~2300	31~33.8~37	30.4~86.3	0.24	5,075	167
	CXM-18-65-70-36-AA40	18	21.5*21.5	800~2500	31~33.5~37	26.8~93.8	0.21	4,750	177
	CIM-22-65-70-36-AC40	22	28*28	990~3000	31~33.5~37	33.2~112.5	0.2	5,900	178
	CLM-22-65-70-36-AC40	22	28*28	1050~3500	31~33.5~37	35.2~131.3	0.19	6,330	180
	CXM-22-65-70-54-AC40	22	28*28	1050~3500	48~51~55	53.6~196	0.17	9,330	178
	CGM-22-65-70-54-AC40	22	28*28	1600~4000	48~51~55	81.6~224	0.15	13,820	170
	CXM-32-65-70-54-AC40	33	38*38	2400~5000	48~51~55	122.4~280	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	500~1,260	17~47	1800	70
CXM-14	720~1,440	24.5~54	1800	70
CXM-18	900~1,800	30.6~64	1800	70
CLM-22	1,100~2,200	37~82	1800	70



Product	Current(mA)	Power(W)	CCT(K)	CRI(Ra)
CLM-9	240~540	8.16~20	3000	70
CLM-14	500~1,260	17~47	3000	70
CXM-14	720~1,440	24.5~54	3000	70
CXM-18	900~1,800	30.6~64	3000	70
CLM-22	1,100~2,200	37~82	3000	70

2400K （Upscale Hotel & Bread lighting）



Part Number	Size (mm*mm)	Current (mA)	Power (W)	CRI(Ra)	CQS	GAI _{BB₁₅}	Rf	Rg	Lumen (lm)
CXM-6-24-90-36-AA30	6.3	150-650	5.2~11.8	90	92	98	91	100	525
CHM--9-24-90-36-XD20	9.6	360-960	12.2-37.4	90	92	98	91	100	1265
CIM-14-24-90-36-AC30	14.3	450~1,080	15-40	90	92	98	91	100	1745
CXM-14-24-90-36-AC30	14.3	720~1,440	24.5~54	90	92	98	91	100	2700
CLM-22-24-90-36-AC30	28*28	1,100~2,200	38~82	90	92	98	91	100	4310

3200K （Museum & Natural atmosphere lighting）



Part Number	Size (mm*mm)	Current (mA)	Power (W)	CRI(Ra)	CQS	GAI _{BB₁₅}	Rf	Rg	Lumen (lm)
CXM-6-32-95-36-AA30	6.3	150-325	5.2~11.8	95	83	102	93	100	555
CHM-9-32-95-36-XD20	9.6	360-960	12.2-37.4	95	83	102	93	100	1,335
CXM-11-32-95-36-AA30	11.7	450~1,080	15.2~40.5	95	83	102	93	100	1,800
CXM-14-32-95-36-AA30	14.3	720~1,440	24.5~54	95	83	102	93	100	2,850

5600K （Modern home & Hardware lighting）



Part Number	Size (mm*mm)	Current (mA)	Power (W)	CRI(Ra)	CQS	GAI _{BB₁₅}	Rf	Rg	Lumen (lm)
CXM-6-56-95-36-AA30	6.3	150-325	5.2~11.8	95	94	103	92	100	585
CHM-9-56-95-36-XD20	9.6	360-960	12.2-37.4	95	94	103	92	100	1415

8000K （Diamond & Platinum lighting）



Part Number	Size (mm*mm)	Current (mA)	Power (W)	CRI(Ra)	CQS	GAI _{BB₁₅}	Rf	Rg	Lumen (lm)
CXM-6-80-70-36-AA30	6.3	150-325	5.2~11.8	70	95	114	94	102	795
CHM-9-80-70-36-XD20	9.6	360-960	12.2-37.4	70	95	114	94	102	1920

Meat Colors											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
CLM-9	240-540	33.8	8.16~20	9.6	0.65	13.5*13.5(AC34)	CLM-9-18-70-36-AC34	1800	70	565	69
							CLM-9-30-70-36-AC34	3000	70	715	88
CLM-14	500~1,260	33.8	17~47	14.3	0.31	19*19(AC38)	CLM-14-18-70-36-AC38	1,800	70	1,185	70
							CLM-14-30-70-36-AC38	3,000	70	1,500	88
CXM-14	720~1,440	34	24.5~54	14.3	0.27	19*19(AC38)	CXM-14-18-70-36-AC38	1,800	70	1,640	67
							CXM-14-30-70-36-AC38	3,000	70	2,135	87
CXM-18	900~1,800	34	30.6~64	17.5	0.21	21.5*21.5(AA38)	CXM-18-18-70-36-AA38	1,800	70	2,120	69
							CXM-18-30-70-36-AA38	3,000	70	2,655	87
CLM-22	1,100~2,200	33.8	37~82	22	0.19	28*28(AC38)	CLM-22-18-70-36-AC38	1,800	70	2,565	69
							CLM-22-30-70-36-AC38	3,000	70	3,320	89

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

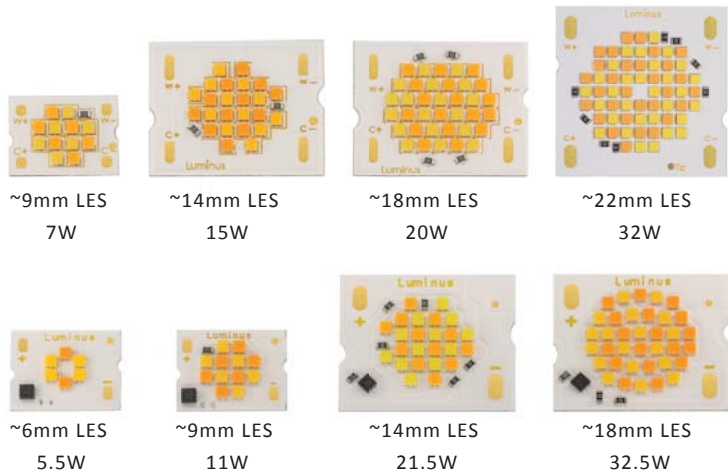
Tunable White											
Product	Current (Typ.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Size (mm)	Part Number	CCT of Cool White	Typical lumens @Tj=85	CCT of Warm White	Typical lumens @Tj=85C	CRI (min)
CTM-9	200	36	7~9	9.5	12*15	CTM-9-4018-30-36-TW01	4000K	700	1800K	480	90
						CTM-9-6527-30-36-TW01	6500K	700	2700K	640	90
CTM-14	400	36	15~18	14.5	20*24	CTM-14-4018-30-36-TW01	4000K	1400	1800K	960	90
						CTM-14-6527-30-36-TW01	6500K	1400	2700K	1280	90
CTM-18	550	36	20~27	17.5	20*24	CTM-18-4018-30-36-TW01	4000K	2000	1800K	1370	90
						CTM-18-6527-30-36-TW01	6500K	2000	2700K	1800	90
CTM-22	875	36	32~45	22	28*28	CTM-22-4018-30-36-TW01	4000K	3200	1800K	2180	90
						CTM-22-6527-30-36-TW01	6500K	3200	2700K	2870	90

New CubePower Dynamic COBs

UNIFORM • EFFICIENT • EASY TO IMPLEMENT



Luminus introduces CCT Tunable and Warm Dimming light sources for directional lighting in hospitality, retail, and residential applications.



- CCT Tunable COBs
1800K to 4000K
2700K to 6500K
- Warm Dimming COBs
3000K to 1800K
4000K to 2700K

2nd Gen“Ultra-High”Density COB

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



CHM-6											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (C /W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
CHM-6	480~720	27	13.2~21	6.3	0.6	13.5x13.5 (XH)	CHM-6-27-80-27-XH20	2,700	80	1,505	114
							CHM-6-27-90-27-XH20		90	1,240	94
							CHM-6-27-95-27-XH20		95	1,185	90
							CHM-6-30-80-27-XH20	3,000	80	1,590	120
							CHM-6-30-90-27-XH20		90	1,335	101
							CHM-6-30-95-27-XH20		95	1,250	95
							CHM-6-35-80-27-XH20	3,500	80	1,635	124
							CHM-6-35-90-27-XH20		90	1,365	103
							CHM-6-35-95-27-XH20		95	1,305	99
							CHM-6-40-70-27-XH20	4,000	70	1,780	135
							CHM-6-40-80-27-XH20		80	1,660	126
							CHM-6-40-90-27-XH20		90	1,440	109
							CHM-6-40-95-27-XH20	5,000	95	1,335	101
							CHM-6-50-70-27-XH20		70	1,810	137
							CHM-6-50-80-27-XH20		80	1,670	127
							CHM-6-50-90-27-XH20		90	1,445	109
							CHM-6-65-70-27-XH20	6,500	70	1,810	137
							CHM-6-65-80-27-XH20		80	1,665	126

CHM-9											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
CHM-9	720~1,080	36	26.3~42	9.0	0.6	19*19 (XH)	CHM-9-27-80-36-XH20	2,700	80	3,030	115
							CHM-9-27-90-36-XH20		90	2,495	95
							CHM-9-27-95-36-XH20		95	2,390	91
							CHM-9-30-80-36-XH20	3,000	80	3,200	122
							CHM-9-30-90-36-XH20		90	2,690	102
							CHM-9-30-95-36-XH20		95	2,515	96
							CHM-9-35-80-36-XH20	3,500	80	3,295	125
							CHM-9-35-90-36-XH20		90	2,745	104
							CHM-9-35-95-36-XH20		95	2,625	100
							CHM-9-40-70-36-XH20	4,000	70	3,580	136
							CHM-9-40-80-36-XH20		80	3,340	127
							CHM-9-40-90-36-XH20		90	2,895	110
							CHM-9-40-95-36-XH20	5,000	95	2,690	102
							CHM-9-50-70-36-XH20		70	3,640	138
							CHM-9-50-80-36-XH20		80	3,360	128
							CHM-9-50-90-36-XH20		90	2,910	111
							CHM-9-65-70-36-XH20	6,500	70	3,645	139
							CHM-9-65-80-36-XH20		80	3,350	127

CHM-11											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
CHM-11	1,050~1,440	37.2	39~57	11.0	-	19*19 (XH)	CHM-11-27-80-36-XH20	2,700	80	4,675	120
							CHM-11-27-90-36-XH20		90	3,855	99
							CHM-11-27-95-36-XH20		95	3,685	94
							CHM-11-30-80-36-XH20	3,000	80	4,940	127
							CHM-11-30-90-36-XH20		90	4,155	107
							CHM-11-30-95-36-XH20		95	3,880	99
							CHM-11-35-80-36-XH20	3,500	80	5,085	130
							CHM-11-35-90-36-XH20		90	4,240	109
							CHM-11-35-95-36-XH20		95	4,055	104
							CHM-11-40-70-36-XH20	4,000	70	5,525	142
							CHM-11-40-80-36-XH20		80	5,155	144
							CHM-11-40-90-36-XH20		90	4,470	115
							CHM-11-40-95-36-XH20	5,000	95	4,150	106
							CHM-11-50-70-36-XH20		70	5,620	151
							CHM-11-50-80-36-XH20		80	5,190	133
							CHM-11-50-90-36-XH20	6,500	90	4,495	115
							CHM-11-65-70-36-XH20		70	5,625	144
							CHM-11-65-80-36-XH20		80	5,170	133

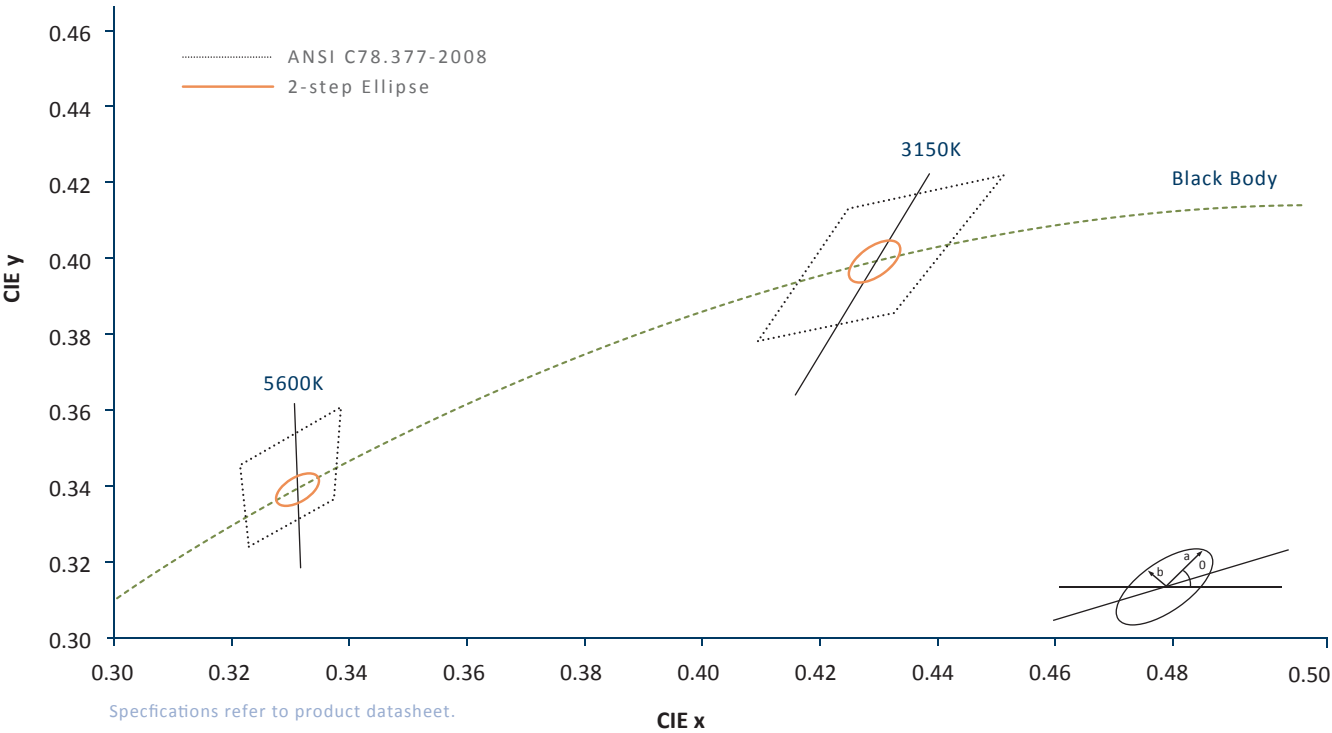
CHM-14											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
CHM-14	1,750~2,520	36	65~99	13.5	-	28*28 (XH)	CHM-14-27-80-36-XH20	2,700	80	7,600	117
							CHM-14-27-90-36-XH20		90	6,265	96
							CHM-14-27-95-36-XH20		95	5,990	92
							CHM-14-30-80-36-XH20	3,000	80	8,030	124
							CHM-14-30-90-36-XH20		90	6,755	104
							CHM-14-30-95-36-XH20		95	6,310	97
							CHM-14-35-80-36-XH20	3,500	80	8,270	127
							CHM-14-35-90-36-XH20		90	6,890	106
							CHM-14-35-95-36-XH20		95	6,590	101
							CHM-14-40-70-36-XH20	4,000	70	8,985	138
							CHM-14-40-80-36-XH20		80	8,380	129
							CHM-14-40-90-36-XH20		90	7,265	112
							CHM-14-40-95-36-XH20	5,000	95	6,745	104
							CHM-14-50-70-36-XH20		70	9,135	141
							CHM-14-50-80-36-XH20		80	8,435	130
							CHM-14-50-90-36-XH20	6,500	90	7,305	112
							CHM-14-65-70-36-XH20		70	9,145	141
							CHM-14-65-80-36-XH20		80	8,405	129

Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (85°C)	Efficacy LPW
Sensus™											
CHM-6	480-720	27.4	13.2-31	6.3	-	13.5*13.5	CHM-6-30-80-27-XH22	3000	80	1,510	114
							CHM-6-30-90-27-XH22		90	1,270	96
							CHM-6-35-80-27-XH22	3500	80	1,555	118
							CHM-6-35-90-27-XH22		90	1,295	98
CHM-9	720-1080	36.5	26.3-42	9.0	-	19*19	CHM-9-30-80-27-XH22	3000	80	3,040	116
							CHM-9-30-90-27-XH22		90	2,555	97
							CHM-9-35-80-27-XH22	3500	80	3,130	119
							CHM-9-35-90-27-XH22		90	2,610	99
CHM-11	1050-1440	37.2	39-57	11.0	-	19*19	CHM-11-30-80-27-XH22	3000	80	4,695	120
							CHM-11-30-90-27-XH22		90	3,945	101
							CHM-11-35-80-27-XH22	3500	80	4,830	124
							CHM-11-35-90-27-XH22		90	4,030	103
CHM-14	1750-2520	37.1	65-99	13.5	-	28*28	CHM-14-30-80-27-XH22	3000	80	7,630	117
							CHM-14-30-90-27-XH22		90	6,415	99
							CHM-14-35-80-27-XH22	3500	80	7,855	121
							CHM-14-35-90-27-XH22		90	6,545	101
Xtreme Sensus™											
CHM-6	480-720	27.4	13.2-31	6.3	-	13.5*13.5	CHM-6-30-90-27-XH24	3000	90	1,095	83
							CHM-6-35-90-27-XH24	3500	90	1,115	84
CHM-9	720-1080	36.5	26.3-42	9.0	-	19*19	CHM-9-30-80-27-XH24	3000	90	2,205	84
							CHM-9-35-90-27-XH24	3500	90	2,250	86
CHM-11	1050-1440	37.2	39-57	11.0	-	19*19	CHM-11-30-80-27-XH24	3000	90	3,400	87
							CHM-11-35-90-27-XH24	3500	90	3,475	89
CHM-14	1750-2520	37.1	65-99	13.5	-	28*28	CHM-14-30-80-27-XH24	3000	90	5,530	85
							CHM-14-35-90-27-XH24	3500	90	5,640	87

Studio COB

- 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:

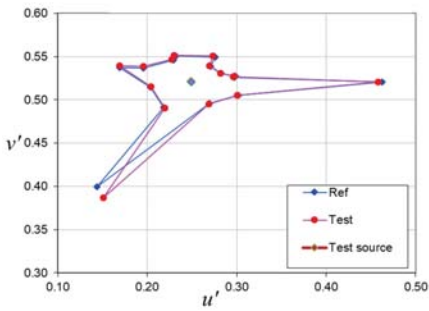


Studio											
Product	Current (Typ.~ Max.mA)	Voltage (V)	Power (Typ.~ Max.W)	LES	Rth (°C/W)	Size (mm)	Part Number	CCT (K)	CRI	Lumen Typ. (Tj=85°C)	Efficacy LPW
CVM-27 Gen 1	4,200~4,200	36	150~168	26.5	0.16	31.5*31.5	CVM-27-56-95-36-AC00	3,150	95	11,500	77
							CVM-27-31-95-36-AC00	5,600	95	12,500	83
CVM-32 Gen 1	5,000~5,000	54	272.5~290	32.8	0.11	38*38	CVM-32-56-95-54-AC00	3,150	95	22,800	81
							CVM-32-31-95-54-AC00	5,600	95	24,800	87
CVM-27 Gen 3	2,000~3,000	54	102~165	26.5	0.15	31.5*31.5	CVM-27-56-95-54-AC30	3,150	95	12,140	119
							CVM-27-31-95-54-AC32	5,600	95	12,900	126
CVM-32 Gen 4	4,000~6,000	54	204~330	32.8	0.1	38*38	CVM-32-56-95-54-AC40	3,150	95	25,000	122
							CVM-32-31-95-54-AC42	5,600	95	26,500	130

Parameter Annotation

GAI:

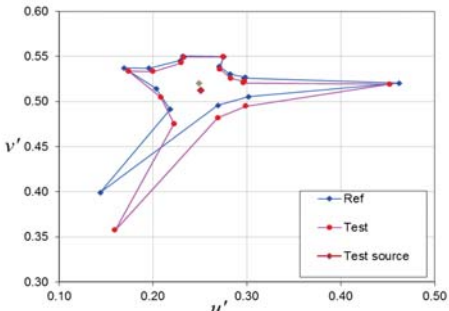
- Color Vivid
Luminus 3000K CRI95 GAI_BB₁₅ Calculation



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



- Luminus3000K CRI90 Sensus GAI_BB₁₅ Calculation

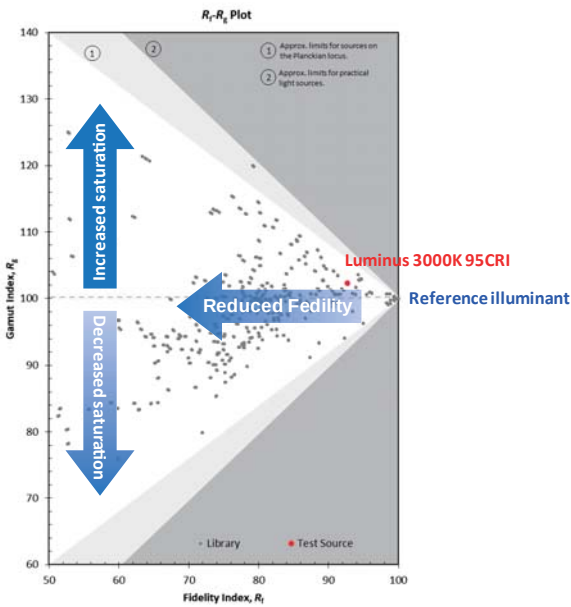


- CCT:3046K
- CRI:92
- R9:64
- CQS:88
- GAI_BB₁₅:118



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)



AES Support



Eco System:

<http://www.luminus.com/resource/certified.html>



Application notes:

<http://luminus.com/resource/application.html>

For further R&D support information, please visit our website.

Design Manual:



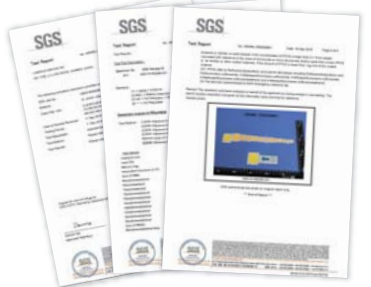
LM 80:



NVLAP:



RoHs:



Lumen Calculator: <http://www.luminus.com/calculator/>



COB Arrays

Luminus chip-on-board (COB) arrays deliver industry-leading solutions for spot lighting and directional applications in general lighting from MR16 size fixtures and bulbs to industrial grade high bay lights and MH and CDM replacements. Luminus offers the best value solution available today.

Please input the conditions

CCT ☐ 2700K ☐ 3000K ☐ 3500K ☐ 4000K ☐ 5000K ☐ 6500K

min CRI ☐ 70 ☐ 80 ☐ 90 ☐ 95

Solve for target lumens or mA ☐ Luminous Flux(lm) ☐ Forward Current(mA)

Currents ☐ Only show typical drive current or above

Sensus™ (yes or no) ☐ No – stay on BBL ☐ Yes – Sensus™ below BBL

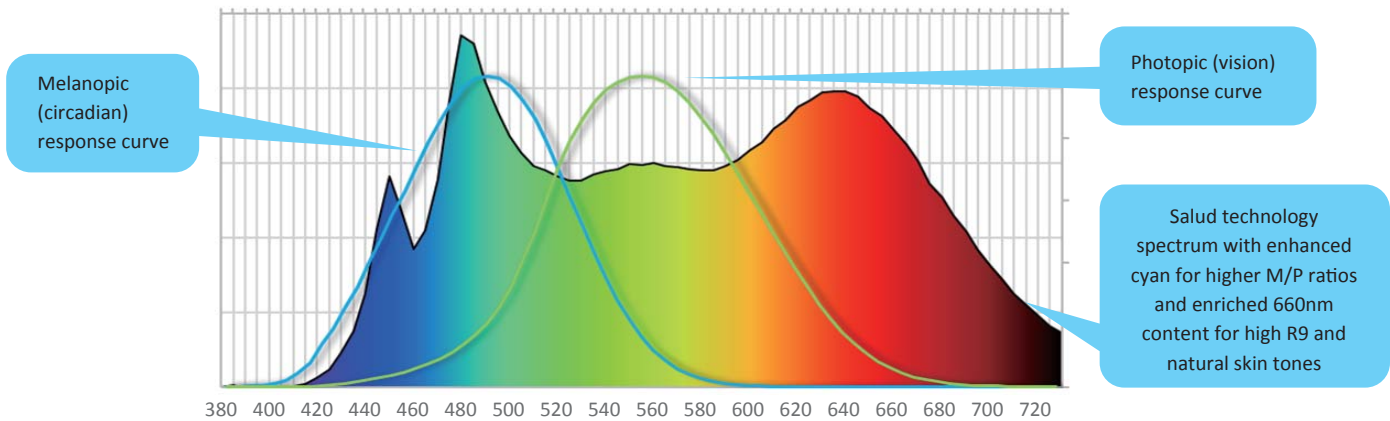
Target lumen value

Junction Temp(Tj)

Salud™ Human Centric Mid Power LED 3030-21C2

Product Selection Table Standard test condition=45mA,Tc=25℃

Nominal CCT	Ordering Part Number	Typ M/P	Minimum CRI	Typ R9	Typical Flux (Lumens)
3000K	MP-3030-21C2-30-90	0.68	90	95	33
3500K	MP-3030-21C2-35-90	0.72	90	75	36
4000K	MP-3030-21C2-40-90	0.8	90	65	38
5000K	MP-3030-21C2-50-90	1.15	90	85	38



Standard Midpower Product Families:

	Package Platform	Voltage (V)	Current (mA)	Power (W)	Typical Flux (lm), 3000K, 80CRI	Typical lm/W 3000K, 80CRI
	MP-2016-1100	3.0	60	~0.2	27	150
	MP-2016-2100	6.0	60	~0.4	52	144
	MP-3014-1100	2.85	60	~0.2	29	170
	MP-3020-3100	9.0	100	~1	124	138
	MP-3030-110H	3.0	65	~0.2	33	181
	MP-3030-122H	3.0	65	~0.5	35	200
	MP-3030-210H	6.0	150	~1	140	156
	MP-3030-2100	6.1	150	~1	132	144
	MP-3030-1100	3.0	150	~0.5	66	147
	MP-5050-6100	18	200	3.6	490	136
	MP-5050-8100	24	200	4.8	650	135
	MP-1616-1103	3.0	150	~0.5	59	124
	MP-1616-2103	6.0	150	~1	118	131

Product	Dimension (mm)		Color code	Wavelength /CCT	Vf	Typical		Maximum		Remark
	Package	Emitting				If	Flux	If	Flux	
SST-10	3.45*3.45	1.0*1.0	UV	365 nm	3.6 V	500 mA	875 mW	1000 mA	1610 mW	120°
				385/395 nm	3.4 V		1015 mW		1860 mW	
			B	405 nm	3.4 V	350 mA	930 mW	1500 mA	1700 mW	90°/130°
				450 nm	3 V		600 mW		2160 mW	
				527 nm	3.4 V		270 mW		975 mW	
				621 nm	2.1 V		320 mW		1280 mW	
				660 nm	2.05 V		370 mW		1480 mW	
				730 nm	2.1 V		310 mW		1240 mW	
				850 nm	1.5 V		280 mW		1120 mW	
				940 nm	1.4 V		225 mW		900 mW	
SFT-10/20	3.50*3.50	1.0*1.0/ 1.55*1.3	B	455 nm	3 V	2.5 A/5 A	100/200 lm	4/8 A	132/265 lm	
			CG	545 nm	3 V		650/1350 lm		890/1830 lm	
			RA	613 nm	2.5 V		300/600 lm		342/685 lm	
SFT-10	3.50*3.50	1.0*1.0	WCH	6500 K	3.25 V	2.5 A	450 lm	2.5 A	450 lm	
SST-20	3.45*3.45	1.4*1.4	W27H	2700 K	2.73 V	350 mA	93 lm	3.0 A	484 lm	min. 95CRI
			W30H	3000 K			100 lm		520 lm	
			W35H	3500 K			107 lm		556 lm	
			W40H	4000 K			114 lm		593 lm	
			WDS	5000 K	3 V	1.5 A	572 lm	3.0 A	1000 lm	
			WDS	5700 K			606 lm			
			WCS	6500 K			614 lm			
SST-40	5.0*5.0	2.0*2.0	WDS	5000 K	2.8 V	1.5 A	608 lm	6.0 A	1919 lm	
			WDS	5700 K			619 lm			
			WCS	6500 K			658 lm			
SBM-40-LC	5.75*4.68	2.2*2.2	RGBW	R	2.3 V	700 mA	45-90 lm	1.0 A	60-133 lm	
				G	3.2 V		112-224 lm		140-281 lm	
				B	3.2 V		630-900 mW		844-1260 lm	
				W	3.2 V		140-224 lm		184-295 lm	
SBM-40-SC	5.75*4.68	2.2*2.2	RGBW	R	2.5 V	1.0 A	90-140 lm	2.0 A	163-253 lm	
				G	3.4 V		210-285 lm		298-404 lm	
				B	3.4 V		1.0-1.4 W		1.6 - 2.26 W	
				W	3.4 V		210-345 lm		330-543 lm	
SBM-40-HC	5.75*4.68	2.2*2.2	RGBW	R	2.5 V	1.0 A	110-165 lm	3.0A	187-280 lm	
				G	3.4 V		240-360 lm		215-430 lm	
				B	3.1 V		1.3 - 1.8 W		2.2 - 3.17 W	
				W	3.1 V		240-400 lm		430-690 lm	
CBT-39	26.5*16	2.09*1.87	UV	405 nm	3.5 V	6.0 A	6.6 W	9.75 A	9.9 W	
CBM-40-X32	26.5*16	2.2*2.2	UV	385 nm	3.5 V	3.0 A	5.0 W	8.0 A	11.25 W	
				405 nm	3.3 V		4.3 W		10.3 W	
PT-39-TE	26.5*16	2.09*1.87	B	460 nm	3.9 V	5.9 A	210 lm	9.8 A	300 lm	
			G	520 nm	5.2 V		1175 lm		1660 lm	
			RA	650 nm	2.6 V		450 lm		800 lm	
PTM-40	21.85*15	2.7*1.6	B	454 nm	3.4 V	10.0 A	350 lm	16.0 A	470 lm	
			CG	555 nm	3.5 V		2700 lm		3650 lm	
			RA	613 nm	3.4 V		1200 lm		1300 lm	
SBT-70	11.0*10.0	φ3.0	B	445 nm	3.8 V	10.5 A	200 lm	14.0 A	240 lm	
			G	530 nm	4.5 V		2100 lm		2520 lm	
CBM-80 X31	28*26.75/ 44.5*10	4.6*2.2	UV	405 nm	3.3V	6.0A	8.3W	16A	16W	
SBT-90	11.0*10.0	3.0*3.0	R	620 nm	2.7 V	9.0 A	945 lm	13.5 A	1350 lm	
			W57S/W65S	5700 K/6500 K	3.5 V		1830 lm		2070 lm	
SBT-90 Gen2	11.0*10.0	3.0*3.0	W57S/W65S	5700 K/6500 K	3.1V	9.0A	2900 lm	18A	4650 lm	
SST-90	11.0*10.0	3.0*3.0	R	618 nm	2.5 V	3.15 A	540 lm	18.0 A	2700 lm	
			W57S/W65S	5700 K/6500 K	3.5 V		1200 lm		4500 lm	
CBT-90	28*26.75	3.0*3.0	UV	405 nm	3.4 V	13.5 A	13.4 W	22.5 A	20.7 W	
			B	460 nm	3.5 V		500 lm		750 lm	
			G	527 nm	4.5 V		2150 lm		3440 lm	
			R	620 nm	2.8 V	1030 lm	1130 lm			
			W57H	5700 K	3.3 V	9.0 A	1080 lm	18.0 A	1728 lm	92CRI
			W57S/W65S	5700 K/6500 K			2100 lm		3500 lm	
CFT-90	28*26.75	3.0*3.0	WDS	5700 K	3.5 V	22.5 A	4800 lm	27.0 A	5500 lm	
			WCS	6500 K						
			WSS	7800 K						
SBM-120	11.0*10.0	4.5*3.3	UV	365 nm	15.5 V	2.25 A	10.2 W	4.5 A	18.4 W	
				385 nm	14.9 V		14 W		25.2 W	
				395/405 nm			14.5 W		26.1 W	
CBM-120-X31	28*26.75	4.5*3.3	UV	385 nm	3.5 V	9.0 A	12.8 W	24.0 A	32.4 W	
				405 nm	3.3 V		14.4 W		30 W	
PT-120/121	28*26.75	4.6*2.6/ 4.0*3.0	B	460 nm	3.9 V	30.0 A	860 lm	36.0 A	950 lm	
			G	525 nm			5200 lm		5720 lm	
			RAX	613 nm			5.2 V		2650 lm	2900 lm
CBT-140	28*26.75	φ4.25	WDH	5700 K	2.6 V	21.0 A	2260 lm	28.0 A	2780 lm	92CRI
			WDS/WCS	5700 K/6500 K	3.6 V		4200 lm		5000 lm	
XBT-1313	1.3*1.3	0.25*0.25	UVC	280-286	6 V	20 mA	3 mW	40 mA	5.2 mW	
XST-3535	3.5*3.5	1.0*1.0	UVC	275-286	6 V	350 mA	30 mW	500 mA	38 mW	