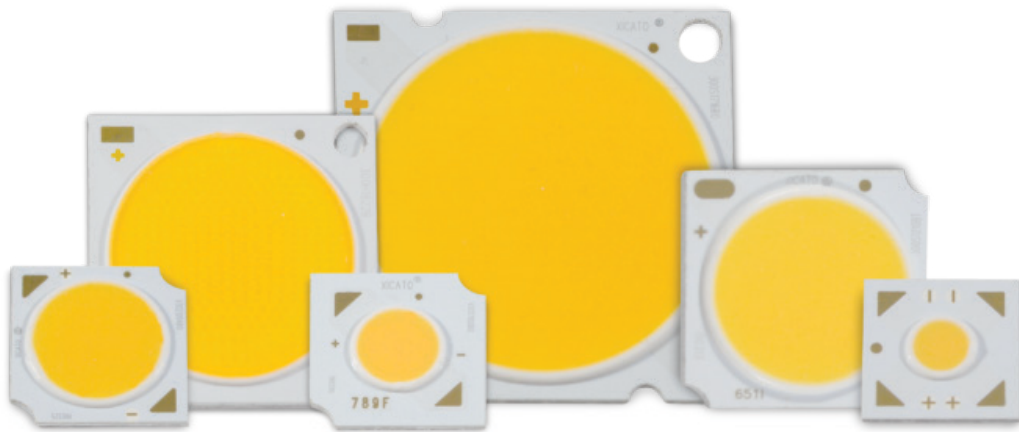




XOB

Light Source

Xicato designs and develops light sources and electronics that enable architects, designers and building managers to create beautiful, smart spaces in which people love to live and work. With thousands of installations around the globe, Xicato continues to be a leading supplier of high quality lighting solutions. Xicato is defining the future of intelligent light sources by integrating electronics, software and connectivity. Founded in 2007, Xicato's headquarters is based in Silicon Valley and the company has offices in China, Europe and the US.

For further information, visit xicato.com.

XOB



XOB is a Chip on Board (COB) LED light source compatible with industry standard holders, heatsinks, reflectors and lenses used in a variety of downlight and spot fixtures. XOB provides high quality light with a white point that perfectly matches other Xicato products, including XTM and XIM.

XOB delivers Xicato's award-winning color points, unmatched color rendering, and great performance in an industry standard form factor that allows for rapid fixture design resulting in accelerated time to revenue.

1 x 2 SDCM

Color & flux warranty

2700K to 4000K CCT

LES sizes range from 4 to 32mm

345lm – 8300lm

90, 95, Vibrant95

2700K-4000K	90 CRI	95 CRI
XOB04	380-455 lm	345-415 lm
XOB06	850 - 950 lm	750 - 900 lm
XOB09	1,400 - 1,600 lm	1,250 - 1,450 lm
XOB14	4,000 - 4,800 lm	3,600 - 4,300 lm
XOB23	4,950 - 5,850 lm	5100 - 5600 lm
XOB32	7,050 - 8,300 lm	

Typical measurements at Tc=70°C and typical drive current for each LES.

Packages and Operation

Package Options

LES 4.5mm, 13.5 mm x 13.5 mm x 1.4 mm – 450 mA

LES: 6 mm, 13.5 mm x 13.5 mm x 1.4 mm - 250 mA

LES: 9.8 mm, 13.5 mm x 13.5 mm x 1.4 mm - 350 mA

LES: 14.5 mm, 19 mm x 19 mm x 1.4 mm - 1050 mA

LES: 23 mm, 28 mm x 28 mm x 1.4 mm - 1400 mA

LES: 32.8 mm, 38 mm x 38 mm x 1.4 mm - 1400 mA

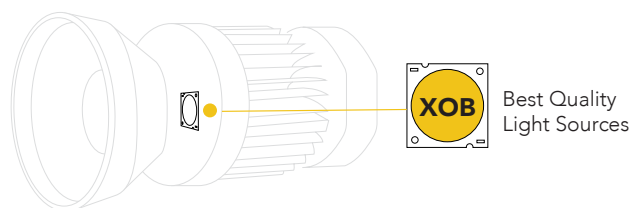




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Ordering Guide

Part Numbering System and Nomenclature

XOB	06	95	27	10	X	33	2	1
XOB	LES	Minimum CRI	CCT	Flux Range	Color Point	Max Voltage	2: 1 x 2 SDCM	Rev.
	04: 4.5mm	90	27: 2700K	04: 400 lm	X: Xicato	09		
	06: 6 mm	95	30: 3000K	10: 1,000 lm	V: Vibrant	33		
	09: 9.8 mm		35: 3500K	15: 1,500 lm		36		
	14: 14.5 mm		40: 4000K	30: 3,000 lm		51		
	23: 23 mm			50: 5,000 lm				
	32: 32.8 mm			60: 6,000 lm				
				90: 9,000 lm				

Absolute Operating Conditions

Part	LES (mm)	R _{th, j-c} ⁶ (°C/W)	Max LED Junction Temp T _j (°C) ¹	Max Drive Current (mA) ³	Warrantied Drive Current (mA) ⁴	Min Vf (V)	Max Vf (V)	Max Power (W)
XOB04	4.5	2.53	125	500	450	7.8	9.4	6.1
XOB06	6	1.21	125	300	250	28.1	34.1	10.2
XOB09	9.8	0.5	125	500	350	30.3	36.9	18.5
XOB014	14.5	0.34	125	1400	1,050	30.5	37	51.8
XOB023	23	0.44	125	2100	1,400	30.6	37.2	78.1
XOB032	32.8	0.22	125	2100	1,400	43	52.2	109.6

Notes:

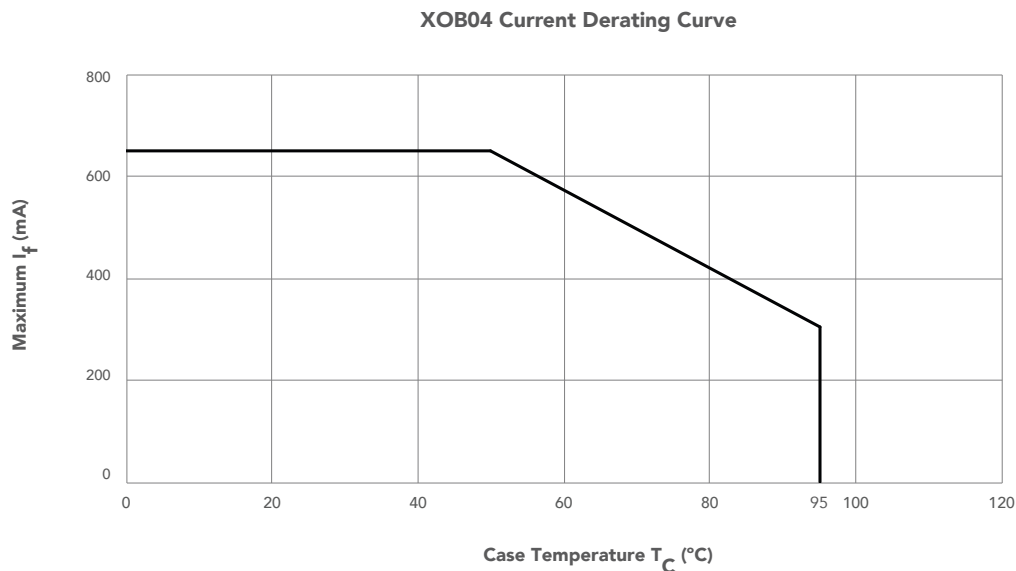
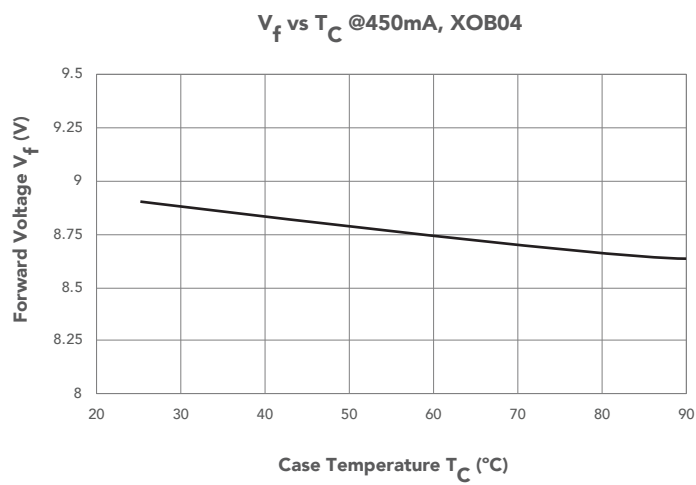
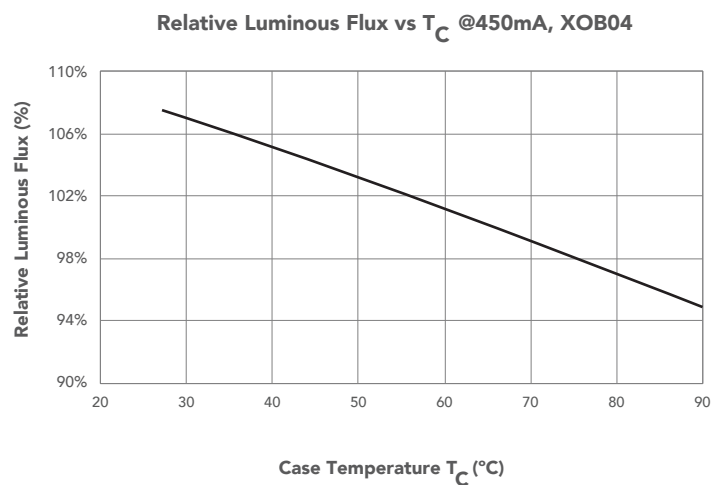
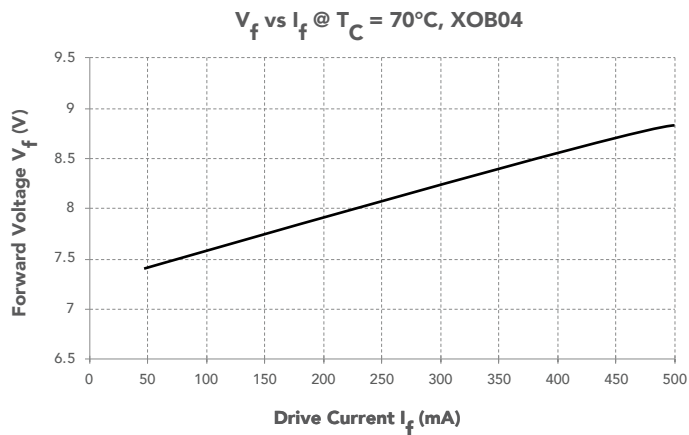
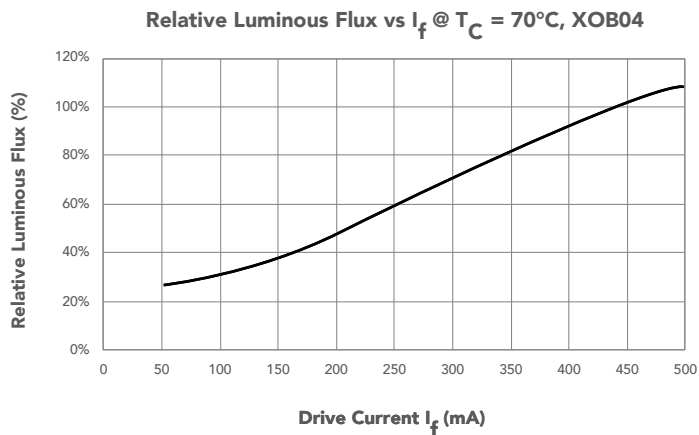
1. Max T_j is based on UL 8057 testing
2. Max T_C can be derived from T_j, R_{th, j-c} and input power to XOB at max allowed drive current.
3. Max drive current is based on IEC62031 testing. Warranty coverage for flux maintenance applies as long as T_C conditions are met at max drive current.
4. Warranty coverage for flux and color maintenance applies as long as T_C conditions in this product datasheet are met.
5. Current derating curves are provided in later sections. Max T_C is related to max LED junction temperature. Xicato does not recommend operating the XOBs at their maximum rated junction temperature in continuous mode as prolonged heat can shorten the useful life of LED systems.
6. R_{th} values measured at T_C = 90°C, except for XOB04 which is measured at 25°C.
7. XOB04 is a ~9V design for use in low voltage applications.

Performance Characteristics

1. Data shown in the tables below are taken at a recommended operating test point (T_C) temperature of 70°C.
2. Voltage data is based on 20°C to 90°C operating range.
3. XOB is designed for use with a constant current power supply with maximum output current.
4. Minimum, maximum, and typical power consumption can be calculated from the data provided.
5. Absolute range of lumen output is $\pm 10\%$ of typical value
6. CCT data ANSI/NEMA compliant.
7. Specifications are subject to change without notice.

XOB 04

Series	CRI (Typical)	Part Number	Color Temp	Drive Current	Forward Voltage			Power Consumption (Typical)	Lumen Output (Typical)	Efficacy (Typical)
			(K)	mA	Min	Typ	Max	W	lm	lm/W
XOB 04	90	XOB04902704X0921	2700	450	7.8	8.7	9.4	3.9	388	99
				350	7.7	8.6	9.3	3.0	311	103
		XOB04903004X0921	3000	450	7.8	8.7	9.4	3.9	423	109
				350	7.7	8.6	9.3	3.0	339	113
		XOB04903504X0921	3500	450	7.8	8.7	9.4	3.9	445	114
				350	7.7	8.6	9.3	3.0	356	119
		XOB04904004X0921	4000	450	7.8	8.7	9.4	3.9	464	119
				350	7.7	8.6	9.3	3.0	372	124
	95	XOB04952704X0921	2700	450	7.8	8.7	9.4	3.9	353	90
				350	7.7	8.6	9.3	3.0	283	94
		XOB04953004X0921	3000	450	7.8	8.7	9.4	3.9	385	99
				350	7.7	8.6	9.3	3.0	308	103
		XOB04953504X0921	3500	450	7.8	8.7	9.4	3.9	405	104
				350	7.7	8.6	9.3	3.0	324	108
		XOB04954004X0921	4000	450	7.8	8.7	9.4	3.9	422	108
				350	7.7	8.6	9.3	3.0	338	113
	V9	XOB04953004V0921	V9	450	7.8	8.7	9.4	3.9	385	99
				350	7.7	8.6	9.3	3.0	308	103



Values in the table above represent 100% relative flux at $I_f = 450\text{mA}$ and $T_C = 70^\circ\text{C}$. To calculate flux under different drive conditions, use the tables and charts above to determine relative flux at different I_f and T_C values. For example, in order to calculate the flux when driving a 4mm 95 CRI 3000K XOB at $I_f = 300\text{mA}$ and $T_C = 50^\circ\text{C}$, multiply 385 lumens by 0.7 and then multiply again by 1.02 to get 275 lumens. $P = I \cdot V$, so the efficacy for these drive conditions would be $(275 \text{ lm}) / (0.30 \text{ A} \cdot 8.75 \text{ V}) = 105 \text{ lm/W}$.

Performance Characteristics

XOB06

Series	CRI (Typical)	Part Number	Color Temp	Drive Current	Forward Voltage			Power Consumption (Typical)	Lumen Output (Typical)	Efficacy (Typical)
			(K)	mA	Min	Typ	Max	W	lm	lm/W
XOB06	90	XOB06902710X3321-B	2700	250	28.1	31.6	34.1	7.9	840	107
				200	27.9	31.3	33.9	6.3	696	111
		XOB06903010X3321-B	3000	250	28.1	31.6	34.1	7.9	873	111
				200	27.9	31.3	33.9	6.3	723	115
		XOB06903510X3321-B	3500	250	28.1	31.6	34.1	7.9	939	119
				200	27.9	31.3	33.9	6.3	778	124
		XOB06904010X3321-B	4000	250	28.1	31.6	34.1	7.9	975	124
				200	27.9	31.3	33.9	6.3	808	129
	95	XOB06952710X3321-B	2700	250	28.1	31.6	34.1	7.9	751	95
				200	27.9	31.3	33.9	6.3	622	99
		XOB06953010X3321-B	3000	250	28.1	31.6	34.1	7.9	798	101
				200	27.9	31.3	33.9	6.3	660	105
		XOB06953510X3321-B	3500	250	28.1	31.6	34.1	7.9	859	109
				200	27.9	31.3	33.9	6.3	711	114
		XOB06954010X3321-B	4000	250	28.1	31.6	34.1	7.9	895	113
				200	27.9	31.3	33.9	6.3	741	118
	V9	XOB06953010V3321-B	V9	250	28.1	31.6	34.1	7.9	796	101
				200	27.9	31.3	33.9	6.3	659	105

Performance same as older revision (-A)

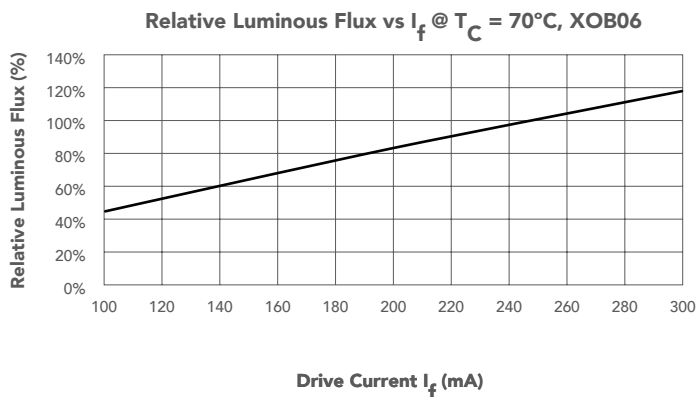


Fig. 6

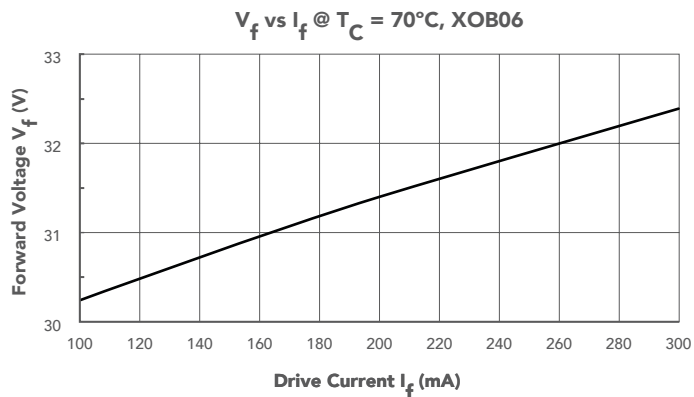


Fig. 7

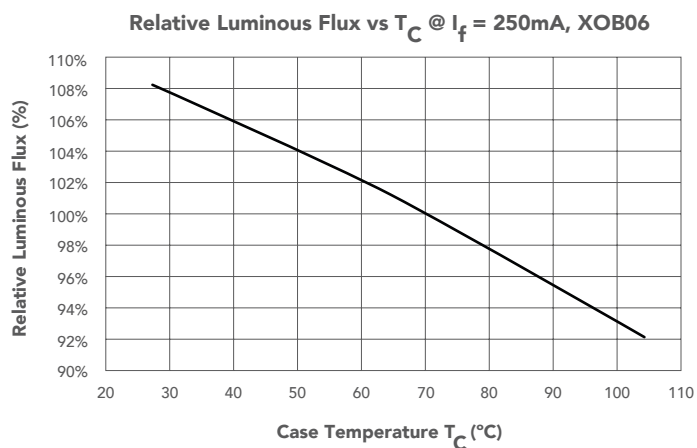


Fig. 8

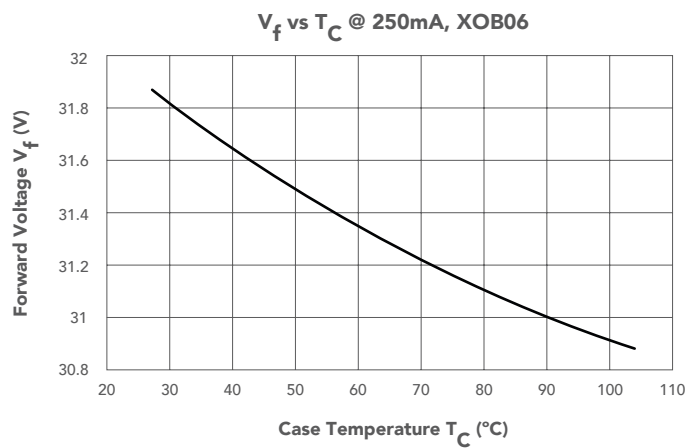


Fig. 9

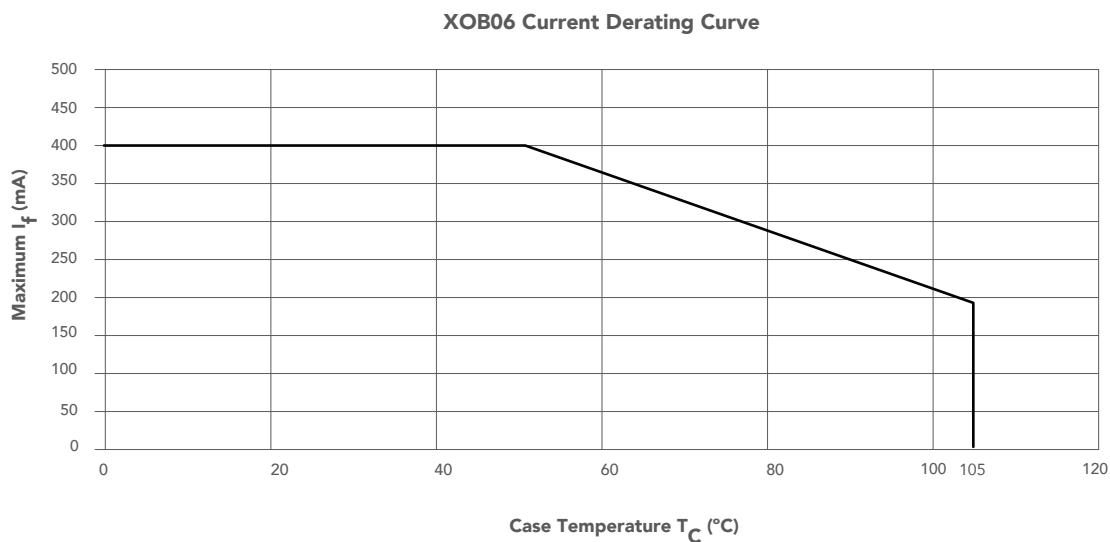


Fig. 10

Values in the table above represent 100% relative flux at $I_f = 250\text{mA}$ and $T_C = 70^\circ\text{C}$. To calculate flux under different drive conditions, use the tables and charts above to determine relative flux at different I_f and T_C values. For example, in order to calculate the flux when driving a 6mm 95 CRI 3000K XOB at $I_f = 140\text{mA}$ and $T_C = 50^\circ\text{C}$, multiply 800 lumens by 0.6 and then multiply again by 1.04 to get 499 lumens. $P = I \cdot V$, so the efficacy for these drive conditions would be $(499 \text{ lm}) / (0.140 \text{ A} \cdot 30.7 \text{ V}) = 116 \text{ lm/W}$.

Performance Characteristics

XOB09

Series	CRI (Typical)	Part Number	Color Temp	Drive Current	Forward Voltage			Power Consumption (Typical)	Lumen Output (Typical)	Efficacy (Typical)
			(K)	mA	Min	Typ	Max	W	lm	lm/W
XOB 09	90	XOB09902715X3621	2700	350	30.3	34.0	36.9	11.9	1433	120
				250	30.1	33.8	36.6	8.4	1091	129
		XOB09903015X3621	3000	350	30.3	34.0	36.9	11.9	1513	127
				250	30.1	33.8	36.6	8.4	1151	136
		XOB09903515X3621	3500	350	30.3	34.0	36.9	11.9	1582	133
				250	30.1	33.8	36.6	8.4	1204	143
		XOB09904015X3621	4000	350	30.3	34.0	36.9	11.9	1620	136
				250	30.1	33.8	36.6	8.4	1233	146
	95	XOB09952715X3621	2700	350	30.3	34.0	36.9	11.9	1276	107
				250	30.1	33.8	36.6	8.4	971	115
		XOB09953015X3621	3000	350	30.3	34.0	36.9	11.9	1341	113
				250	30.1	33.8	36.6	8.4	1020	121
		XOB09953515X3621	3500	350	30.3	34.0	36.9	11.9	1421	119
				250	30.1	33.8	36.6	8.4	1081	128
		XOB09954015X3621	4000	350	30.3	34.0	36.9	11.9	1483	124
				250	30.1	33.8	36.6	8.4	1129	134
	V9	XOB09953015V3621	V9	350	30.3	34.0	36.9	11.9	1347	113
				250	30.1	33.8	36.6	8.4	1020	121

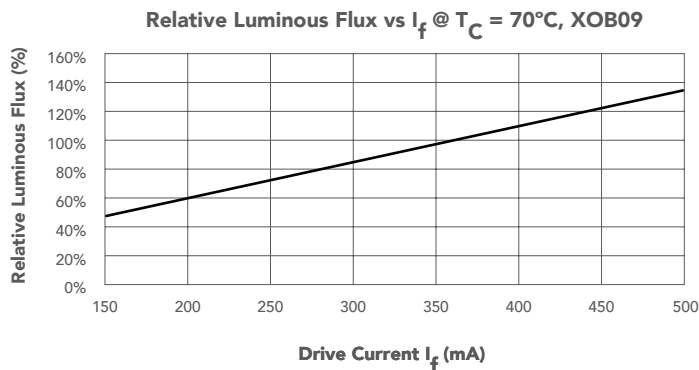


Fig. 11

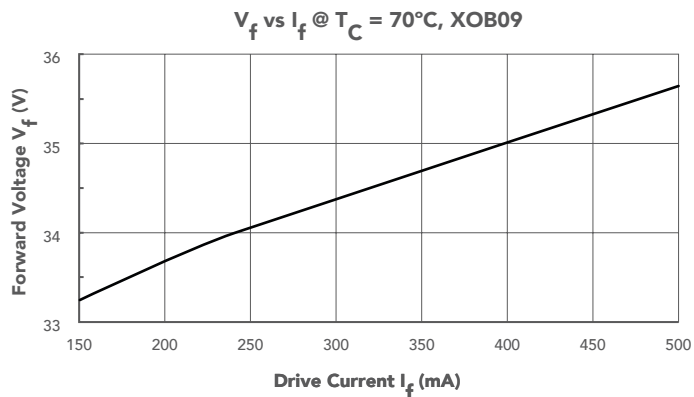


Fig. 12

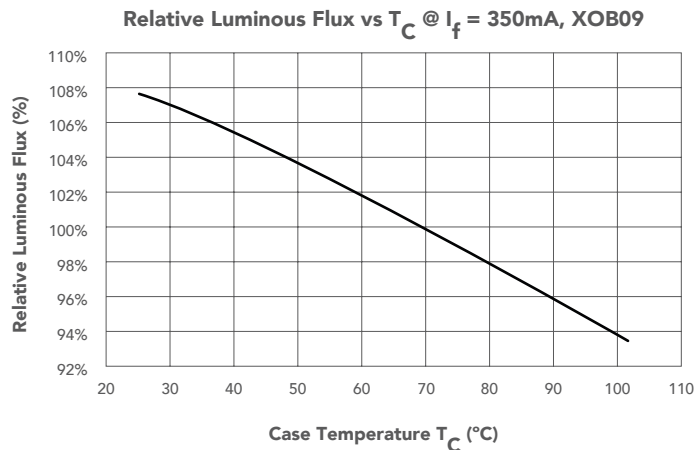


Fig. 13

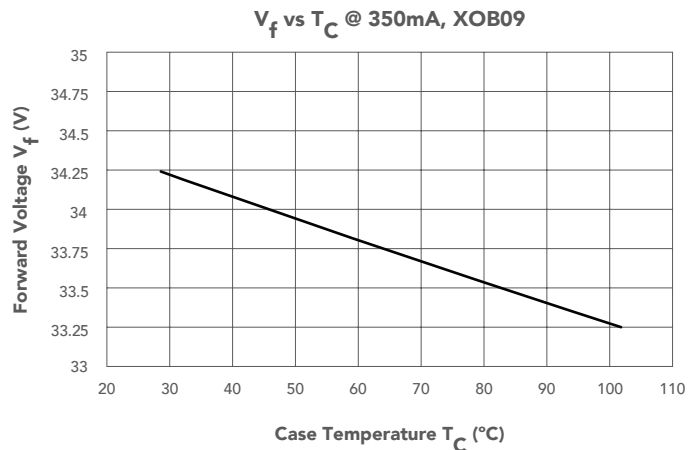


Fig. 14

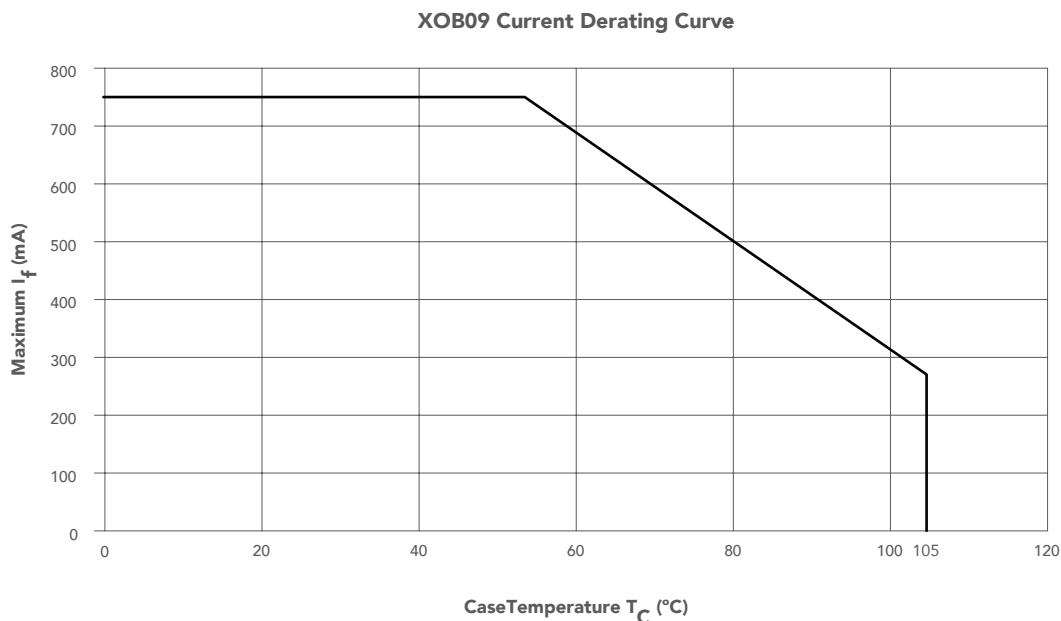


Fig. 15

Values in the table above represent 100% relative flux at $I_f = 350\text{mA}$ and $T_C = 70^\circ\text{C}$. To calculate flux under different drive conditions, use the tables and charts above to determine relative flux at different I_f and T_C values. For example, in order to calculate the flux when driving a 9.8mm 95 CRI 3000K XOB at $I_f = 200\text{mA}$ and $T_C = 50^\circ\text{C}$, multiply 1,350 lumens by 0.6 and then multiply again by 1.03 to get 834 lumens. $P = I \cdot V$, so the efficacy for these drive conditions would be $(834 \text{ lm}) / (0.200 \text{ A} \cdot 33.7 \text{ V}) = 124 \text{ lm/W}$.

Performance Characteristics

XOB14

Series	CRI (Typical)	Part Number	Color Temp	Drive Current	Forward Voltage			Power Consumption (Typical)	Lumen Output (Typical)	Efficacy (Typical)
			(K)	mA	Min	Typ	Max	W	lm	lm/W
XOB 14	90	XOB14902750X3621	2700	1050	30.5	34.2	37.0	35.9	4050	113
				700	30.2	33.9	36.7	23.7	2888	122
				350	29.8	33.5	36.3	11.7	1673	143
		XOB14903050X3621	3000	1050	30.5	34.2	37.0	35.9	4300	120
				700	30.2	33.9	36.7	23.7	3066	129
				350	29.8	33.5	36.3	11.7	1776	151
		XOB14903550X3621	3500	1050	30.5	34.2	37.0	35.9	4600	128
				700	30.2	33.9	36.7	23.7	3280	138
				350	29.8	33.5	36.3	11.7	1900	162
		XOB14904050X3621	4000	1050	30.5	34.2	37.0	35.9	4750	132
				700	30.2	33.9	36.7	23.7	3387	143
				350	29.8	33.5	36.3	11.7	1962	167
	95	XOB14952750X3621	2700	1050	30.5	34.2	37.0	35.9	3650	102
				700	30.2	33.9	36.7	23.7	2602	110
				350	29.8	33.5	36.3	11.7	1507	129
		XOB14953050X3621	3000	1050	30.5	34.2	37.0	35.9	3850	107
				700	30.2	33.9	36.7	23.7	2745	116
				350	29.8	33.5	36.3	11.7	1590	136
		XOB14953550X3621	3500	1050	30.5	34.2	37.0	35.9	4150	115
				700	30.2	33.9	36.7	23.7	2959	125
				350	29.8	33.5	36.3	11.7	1714	146
		XOB14954050X3621	4000	1050	30.5	34.2	37.0	35.9	4300	120
				700	30.2	33.9	36.7	23.7	3066	129
				350	29.8	33.5	36.3	11.7	1776	151
	V9	XOB14953050V3621	V9	1050	30.5	34.2	37.0	35.9	3850	107
				700	30.2	33.9	36.7	23.7	2745	116
				350	29.8	33.5	36.3	11.7	1590	136

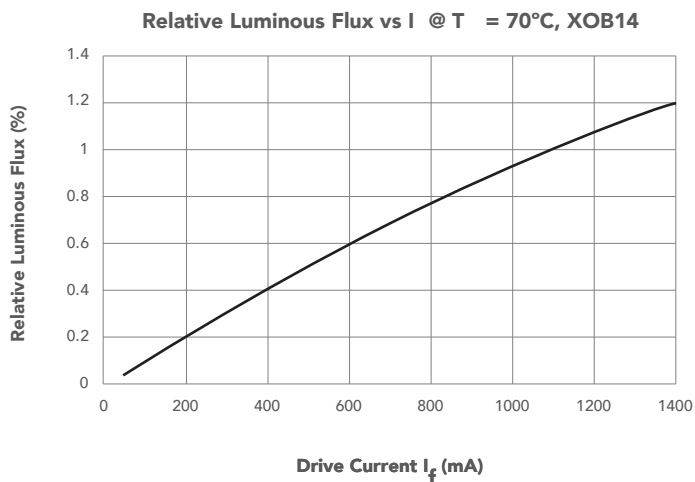


Fig. 16

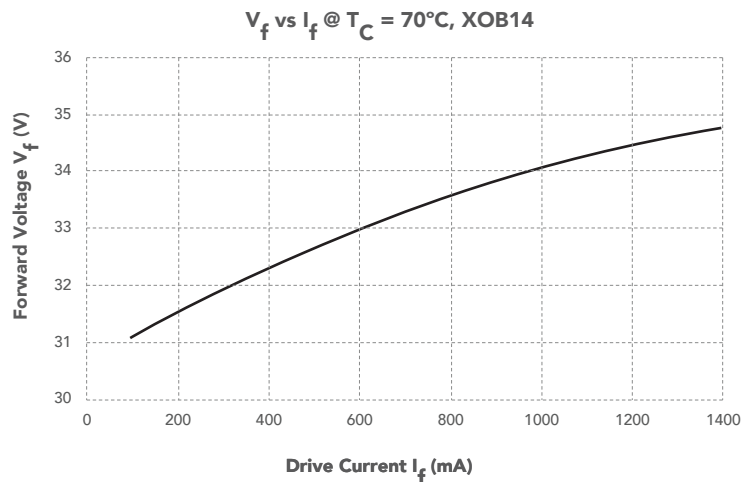


Fig. 17

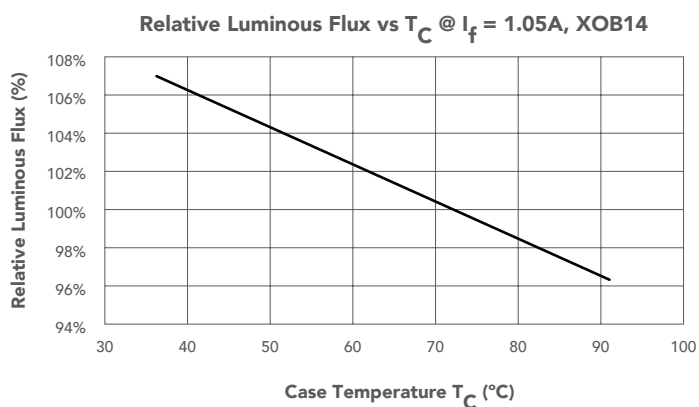


Fig. 18

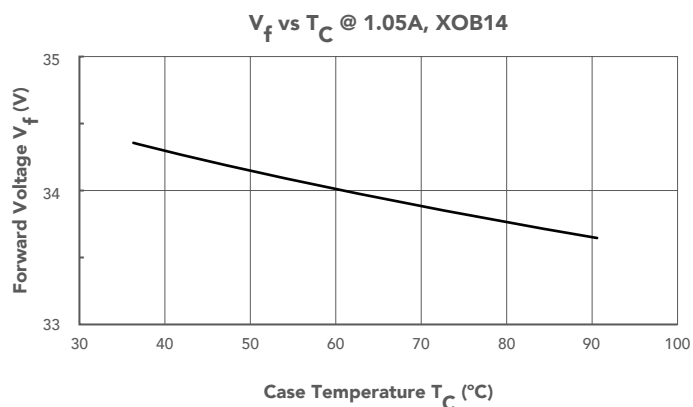


Fig. 19

Values in the table above represent 100% relative flux at $I_f = 1,050\text{mA}$ and $T_C = 70^\circ\text{C}$. To calculate flux under different drive conditions, use the tables and charts above to determine relative flux at different I_f and T_C values. For example, in order to calculate the flux when driving a 14.5mm 95 CRI 3000K XOB at $I_f = 200\text{mA}$ and $T_C = 40^\circ\text{C}$, multiply 3,850 lumens by 0.21 and then again by 1.06 to get 857 lumens. $P = I \cdot V$, so the efficacy for these drive conditions would be $(857 \text{ lm}) / (0.200 \text{ A} \cdot 34.25 \text{ V}) = 125 \text{ lm/W}$.

Performance Characteristics

XOB23

Series	CRI (Typical)	Part Number	Color Temp	Drive Current	Forward Voltage			Power Consumption (Typical)	Lumen Output (Typical)	Efficacy (Typical)
			(K)	mA	Min	Typ	Max	W	lm	lm/W
XOB 23	90	XOB23902760X3621	2700	1400	30.6	34.3	37.2	48.1	5733	119
				1050	30.3	34.0	36.9	35.7	4414	123
				700	30.1	33.7	36.6	23.6	3096	131
		XOB23903060X3621	3000	1400	30.6	34.3	37.2	48.1	6038	126
				1050	30.3	34.0	36.9	35.7	4649	130
				700	30.1	33.7	36.6	23.6	3260	138
		XOB23903560X3621	3500	1400	30.6	34.3	37.2	48.1	6384	133
				1050	30.3	34.0	36.9	35.7	4916	138
				700	30.1	33.7	36.6	23.6	3447	146
		XOB23904060X3621	4000	1400	30.6	34.3	37.2	48.1	6611	138
				1050	30.3	34.0	36.9	35.7	5091	142
				700	30.1	33.7	36.6	23.6	3570	151
	95	XOB23952760X3621	2700	1400	30.6	34.3	37.2	48.1	5114	106
				1050	30.3	34.0	36.9	35.7	3937	110
				700	30.1	33.7	36.6	23.6	2761	117
		XOB23953060X3621	3000	1400	30.6	34.3	37.2	48.1	5324	111
				1050	30.3	34.0	36.9	35.7	4099	115
				700	30.1	33.7	36.6	23.6	2875	122
		XOB23953560X3621	3500	1400	30.6	34.3	37.2	48.1	5644	117
				1050	30.3	34.0	36.9	35.7	4346	122
				700	30.1	33.7	36.6	23.6	3048	129
		XOB23954060X3621	4000	1400	30.6	34.3	37.2	48.1	5828	121
				1050	30.3	34.0	36.9	35.7	4487	126
				700	30.1	33.7	36.6	23.6	3147	133

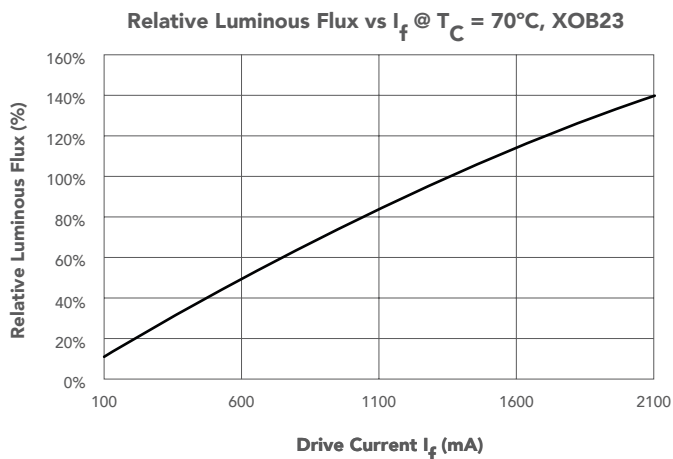


Fig. 20

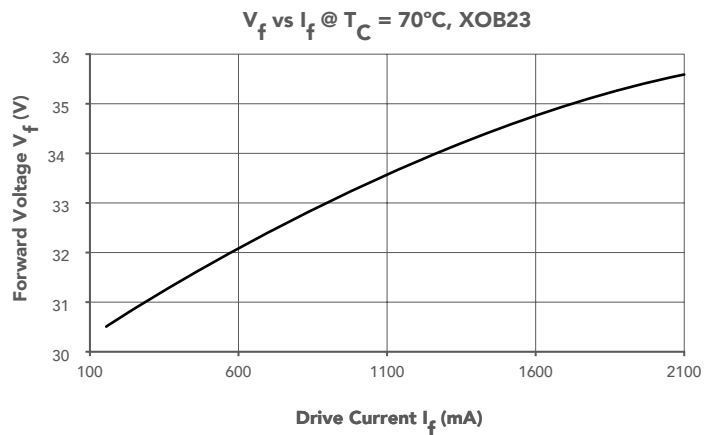


Fig. 21

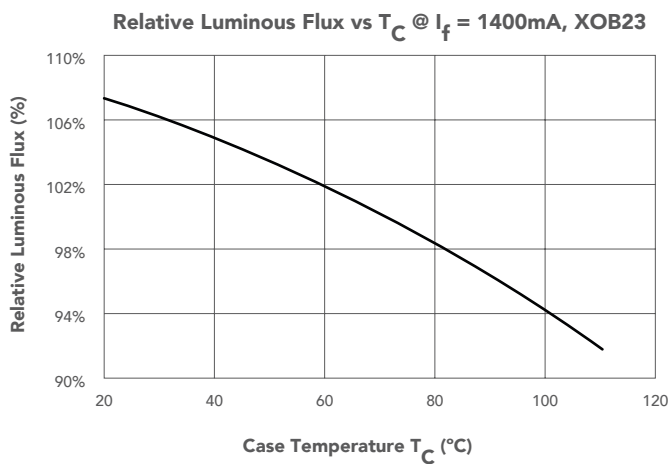


Fig. 22

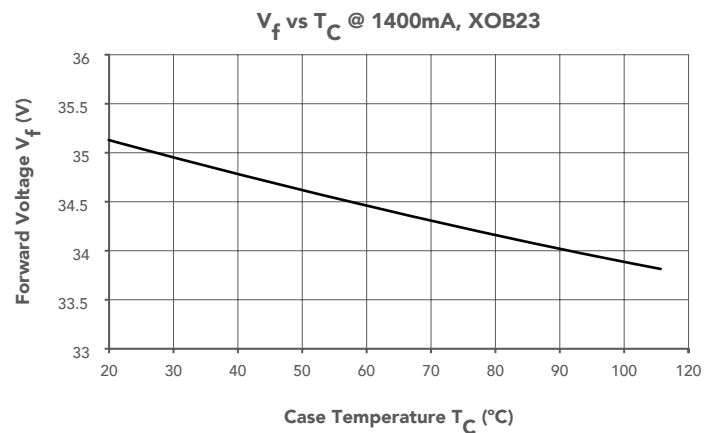


Fig. 23

Values in the table above represent 100% relative flux at $I_f = 1,050\text{mA}$ and $T_C = 70^\circ\text{C}$. To calculate flux under different drive conditions, use the tables and charts above to determine relative flux at different I_f and T_C values. For example, in order to calculate the flux when driving a 14.5mm 95 CRI 3000K XOB at $I_f = 200\text{mA}$ and $T_C = 40^\circ\text{C}$, multiply 3,850 lumens by 0.21 and then again by 1.06 to get 857 lumens. $P = I \times V$, so the efficacy for these drive conditions would be $(857 \text{ lm}) / (0.200 \text{ A} \times 34.25 \text{ V}) = 125 \text{ lm/W}$.

Performance Characteristics

XOB32

Series	CRI (Typical)	Part Number	Color Temp	Drive Current	Forward Voltage			Power Consumption (Typical)	Lumen Output (Typical)	Efficacy (Typical)
			(K)	mA	Min	Typ	Max	W	lm	lm/W
XOB 32	90	XOB32902790X5121	2700	1400	43.0	48.2	52.2	67.5	8310	123
				1050	42.7	47.9	51.9	50.3	6501	129
				700	42.4	47.6	51.6	33.3	4514	136
		XOB32903090X5121	3000	1400	43.0	48.2	52.2	67.5	8610	128
				1050	42.7	47.9	51.9	50.3	6735	134
				700	42.4	47.6	51.6	33.3	4677	140
		XOB32903590X5121	3500	1400	43.0	48.2	52.2	67.5	8990	133
				1050	42.7	47.9	51.9	50.3	7033	140
				700	42.4	47.6	51.6	33.3	4884	147
		XOB32904090X5121	4000	1400	43.0	48.2	52.2	67.5	9320	138
				1050	42.7	47.9	51.9	50.3	7291	145
				700	42.4	47.6	51.6	33.3	5063	152

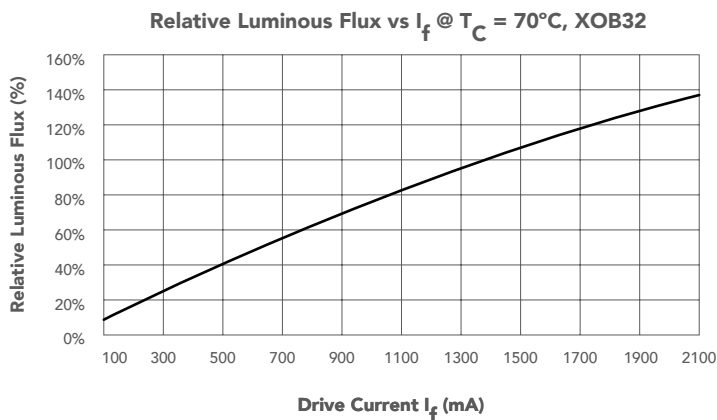


Fig. 24

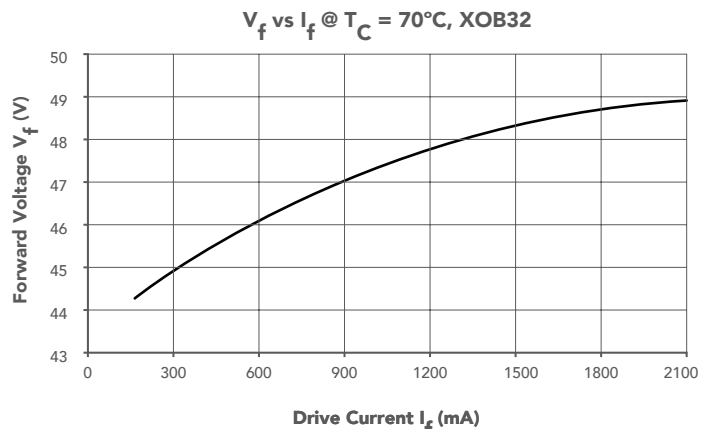


Fig. 25

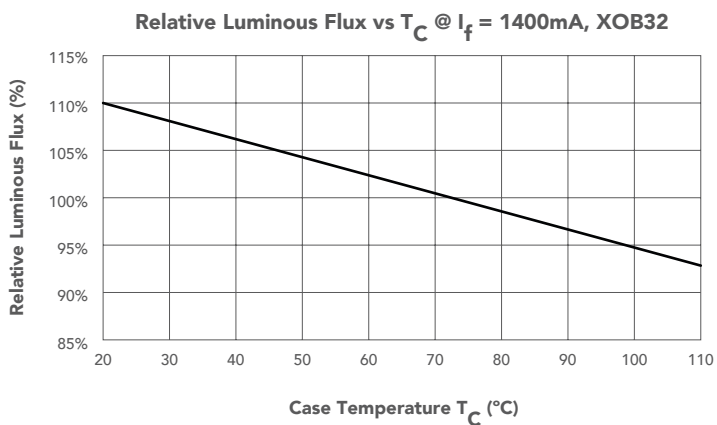


Fig. 26

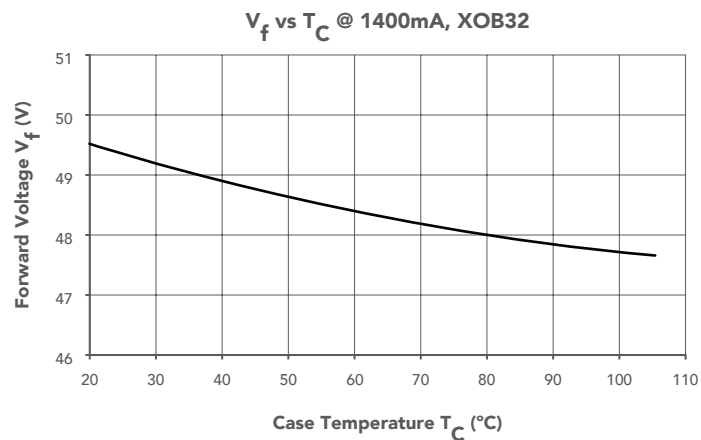


Fig. 27

Values in the table above represent 100% relative flux at $I_f = 1,050\text{mA}$ and $T_C = 70^\circ\text{C}$. To calculate flux under different drive conditions, use the tables and charts above to determine relative flux at different I_f and T_C values. For example, in order to calculate the flux when driving a 14.5mm 95 CRI 3000K XOB at $I_f = 200\text{mA}$ and $T_C = 40^\circ\text{C}$, multiply 3,850 lumens by 0.21 and then again by 1.06 to get 857 lumens. $P = I \cdot V$, so the efficacy for these drive conditions would be $(857 \text{ lm}) / (0.200 \text{ A} \cdot 34.25 \text{ V}) = 125 \text{ lm/W}$.

Color Specifications

Correlated Color Temperature	Nominal	Actual	CCT
	2700K	2700K	± 40K
	3000K	2950K	± 50K
	3500K	3420K	± 60K
	4000K	4000K	± 70K
Initial Color Consistency	SDCM	DUV	
	≤ 1x2	± 0.001	

XOB matches Xicato Artist color points and are designed to perfectly emulate dimmed incandescent or halogen light sources, with precise color rendering by CIE or IES standards, for the most exacting illumination of art, architecture, people, or other fine materials.

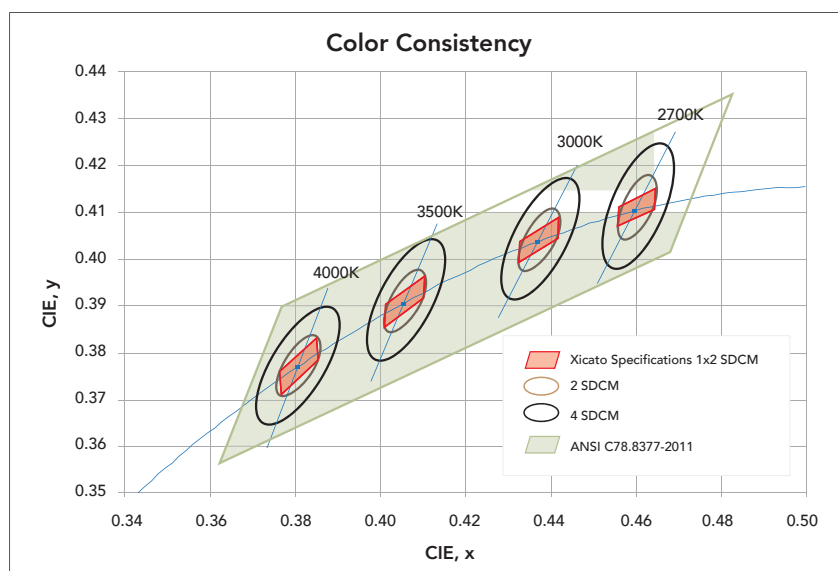


Fig. 28

Color Specifications

Color Metrics: 90CRI SERIES

Xicato’s 90CRI Series is designed to balance extremely high color rendering with high lumen output and efficacy, for demanding retail, hospitality, and residential applications.

All color rendering data at highest rated drive current and 70°C case temperature (Tc).
Tester consistency (reproducibility) ± 0.0003 Duv (CIE 1964) from NIST reference.

Correlated Color Temperature	2700K, 3000K, 3500K, or 4000K nominal 3000K used as test reference
Initial Color Consistency	≤ 1 x 2 Macadam ellipses (SDCM) at 70°C, B0
CIE CRI Minimums	Ra ≥ 90, R9 ≥ 50
TM-30	Rf: 88, Rg: 101 typ

CIE CRI Color Metrics (values are typical)

	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
XCOB 90CRI Series	91	91	94	97	92	91	93	91	80	55	87	93	84	92	98	87

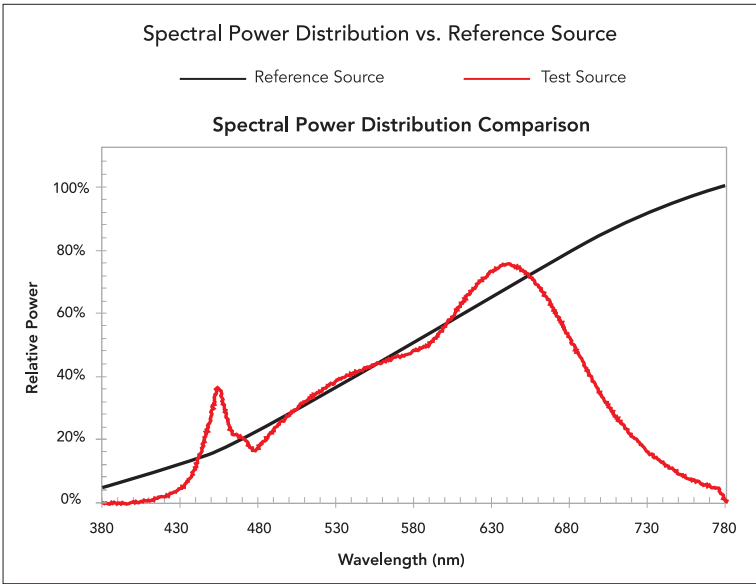


Fig. 29

Color Specifications

Color Metrics: 95CRI SERIES

Xicato’s 95CRI Series is designed to perfectly emulate natural light sources, with precise color rendering by CIE or IES standards, for the most exacting illumination of art, architecture, or other surfaces.

All color rendering data at highest rated drive current and 70°C case temperature (Tc).
Tester consistency (reproducibility) ± 0.0003 Duv (CIE 1964) from NIST reference.

Correlated Color Temperature	2700K, 3000K, 3500K, or 4000K nominal 3000K used as test reference
Initial Color Consistency	≤ 1 x 2 Macadam ellipses (SDCM) at 70°C, B0
CIE CRI Minimums	Ra ≥ 95, R9 ≥ 90
TM-30	Rf: 96, Rg: 103 typ

CIE CRI Color Metrics (values are typical)

	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
XCOB 95CRI Series	98	97	99	97	97	97	97	99	97	95	99	95	89	97	97	97

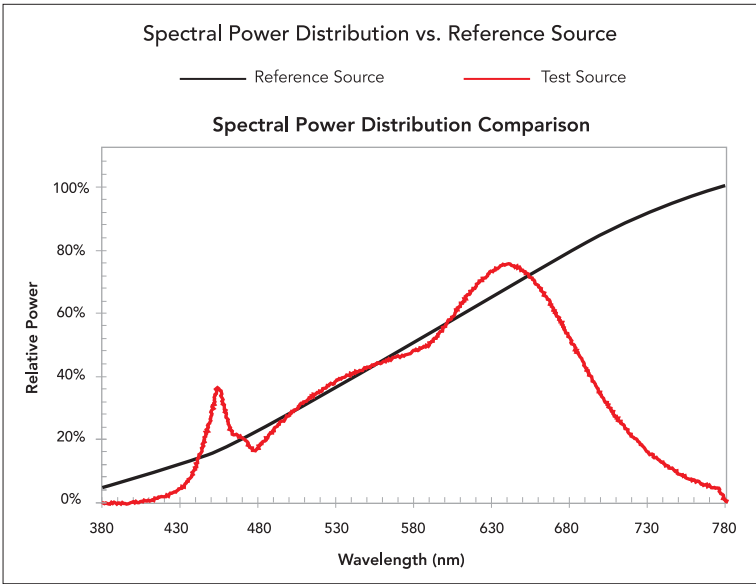
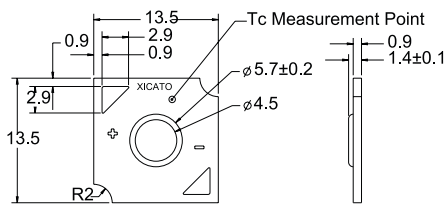
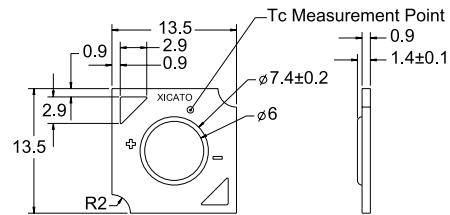


Fig. 30

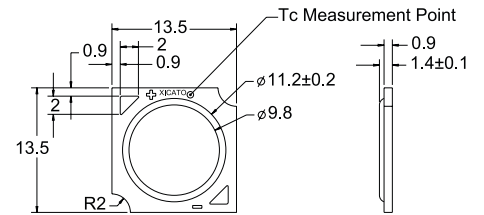
Mechanical Drawings



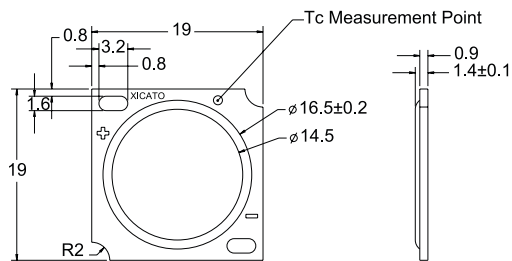
XOB04



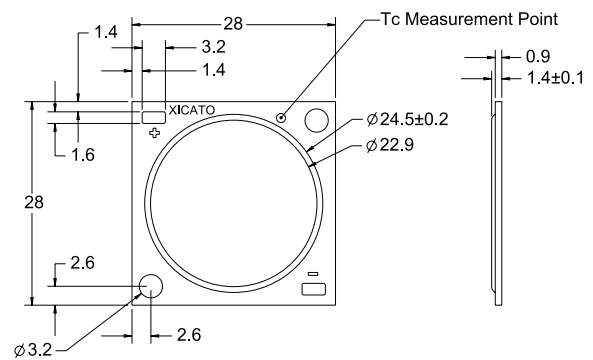
XOB06



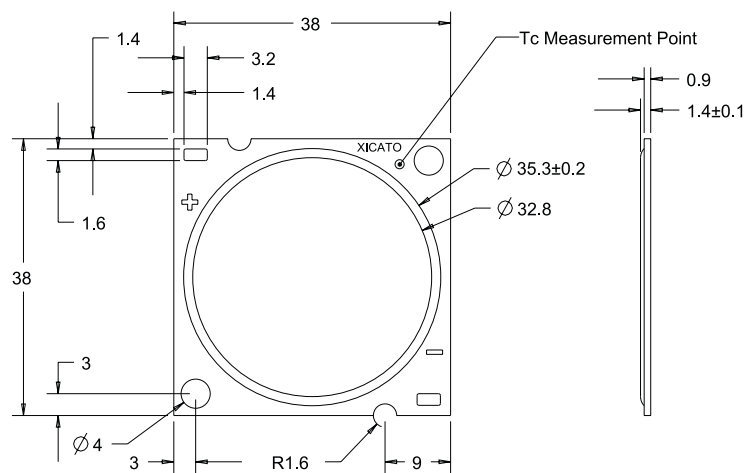
XOB09



XOB14



XOB23



XOB32

Regulatory Information

Electrical Safety & Handling

CE	IEC 62031:2008
UL	UL 8750
CSA:	C22.2 No. 250.13
Ingress Protection rating:	IP20
Eye Safety	IEC 62778

Environmental Safety

RoHS and REACH compliant

Warranty

Warranty Duration	5 years for lumen maintenance & 2 years for color maintenance
Warranty Coverage	Covers initial color consistency, lumen maintenance, and color maintenance on EVERY light source (B0). No failures.
Initial Color Consistency	Every XOB is within 1x2 MacAdam Ellipse (1x2 SDCM) of target color point. Color point tuned at operating temperature 70°C.
Lumen Maintenance:	Better than 70% (L70, B0, F0) at 50,000 hours at maximum operating drive current and operating temperature as stated in this datasheet.
Color Maintenance:	All XOB within a contiguous space shall remain within $\pm 0.003 \Delta u'v'$ of each other at T_C and typical operating conditions as stated in this datasheet for the duration of the warranty.

Full warranty text at: xicato.com/support/warranty



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