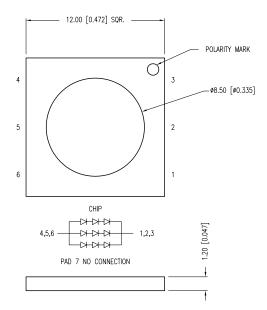
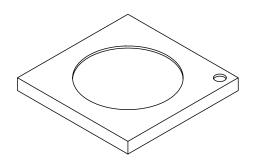
PART NUMBER

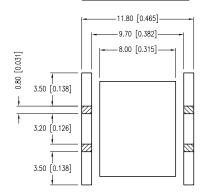
SML-LX4747MWCATR10

REV.





RECOMMENDED SOLDER PAD LAYOUT



ELECTRO-OPTICAL CHA	RACTERISTIC	S T _A = 25°C	I _f = 10	000mA		
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
FORWARD VOLTAGE	V _f	9.3	10.4	11.5	٧	I _f =1000mA
REVERSE VOLTAGE	Vr			15	٧	I _r =30uA
LUMINOUS FLUX	l _v	450	530		lm	I _f =1000mA
COLOR TEMPERATURE		2870	3000	3220	' K	
VIEWING ANGLE			120		2x theta	
CRI			83			
EMITTED COLOR:	WARM W	/HITE				
EPOXY LENS FINISH:	WATER	CLEAR LENS				

PLIMI	ΛF	SAFF	OPERATION	ΔТ	25.0	

PARAMETER	MAX	UNITS
DC FORWARD CURRENT*	1000	mA
PEAK FORWARD CURRENT**	1200	mA
POWER DISSIPATION	11.5	W
OPERATING TEMP.	-40 TO +100	•C
STORAGE TEMP.	-40 TO +110	•c

*MOUNTING ON METAL CORE PCB

THERMAL PARAMETERS

PARAMETER	MAX	UNITS
JUNCTION TEMPERATURE	110	•C
THERMAL RESISTANCE (JUNCTION/SOLDER)	2.7	.C\M
THERMAL RESISTANCE (JUNCTION/AMBIENT)	13.5	*C/W
TEMPERATURE COEFFICIENT OF V _F	-5.6	mV/*C

CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 2g STANDARDS

CAUTION: STATIC SENSITIVE DEVICE FOLLOW PROPER E.S.D. HANDLING PROCEDURES WHEN WORKING WITH THIS PART.

Creating LED and LCD Solutions Together™

290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790

FAX: +1.847.359.6538 WEB: WWW.LUMEX.COM

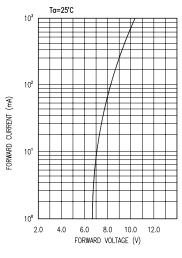
12mm x 12mm SURFACE MOUNT LED, WARM WHITE.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

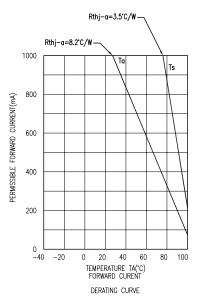
CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

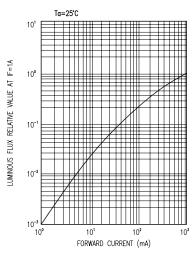
*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.000), X.XX=±0.05 (±0 UNCONTROLLED DOCUMENT DATE: 09.22.11 DRAWN BY: AΒ PAGE: 1 OF 4 CHKD BY: KF SCALE: NTS APRVD BY: JD UNIT: mm [INCH] (Pb)

^{**0.1}ms PULSE WIDTH, 1/10 DUTY CYCLE

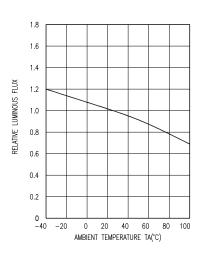


FORWARD CURRENT VS FORWARD VOLTAGE





LUMINOUS FLUX VS FORWARD CURRENT



LUMINOUS FLUX VS AMBIENT TEMPERATURE

40° 30° 20° 10° 0° Ta=25*C 50° 0.8 60° 70° 0.2 80° 90* 100° 1.0 0.8 0.6 0.4 20° 40° 60° 80. 100 SPATIAL DISTRIBUTION

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 (±0.001), X.XXX=±0.127 (±0.005). UNCONTROLLED DOCUMENT



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538

12mm x 12mm SURFACE MOUNT LED, WARM WHITE.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

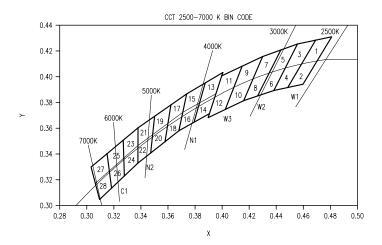
CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL
KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

IUN	DIVU	UNINIULL	LD DOCON	72/ / /
	DATE:	09.22.11	DRAWN BY:	AB
	PAGE:	2 OF 4	CHKD BY:	KF
	SCALE:	NTS	APRVD BY:	JD
	UNIT:	mm [INCH]	Po	

PART NUMBER

SML-LX4747MWCATR10

REV.



COLOR	GROUP	CHROMATICITY REGIONS	MIN.	TYP.	MAX.
	W1	1,2,3,4	2580	2700	2870
WARM WHITE	W2	5,6,7,8	2870	3000	3220
	W3	9,10,11,12	3220	3500	3710
WARM WHITE	N1	13,14,15,16	3710	4000	4260
WARM WHILE	N2	17,18,19,20,21,22	4260	4700	5310
COOL WHITE	C1	23,24,25,26,27,28	5310	6000	7040

	Х	Υ		Х	Y		Х	Υ		Х	Y		Х	Y		Х	Υ
	0.4582	0.4099		0.4259	0.3853		0.3941	0.3848		0.3670	0.3578		0.3496	0.3702		0.3265	0.3371
1	0.4687	0.4289	6	0.4342	0.4028	11	0.3996	0.4015	16	0.3702	0.3722	21	0.3376	0.3616	26	0.3160	0.3274
'	0.4813	0.4319	"	0.4465	0.4071	11	0.4146	0.4089	10	0.3825	0.3798	21	0.3370	0.3472	20	0.3175	0.3139
	0.4700	0.4126		0.4373	0.3893		0.4080	0.3916		0.3783	0.3646		0.3481	0.3557		0.3270	0.3230
	0.4483	0.3919		0.4221	0.3984		0.3889	0.3690		0.3736	0.3874		0.3481	0.3557		0.3144	0.3408
2	0.4582	0.4099	7	0.4299	0.4165	12	0.3941	0.3848	17	0.3616	0.3788	22	0.3370	0.3472	27	0.3028	0.3304
-	0.4700	0.4126	l ′	0.4430	0.4212	12	0.4080	0.3916	17	0.3592	0.3641		0.3364	0.3328	-	0.3055	0.3177
	0.4593	0.3944		0.4342	0.4028		0.4017	0.3751		0.3703	0.3726		0.3466	0.3411		0.3160	0.3274
	0.4465	0.4071		0.4147	0.3814		0.3825	0.3798		0.3703	0.3726		0.3376	0.3616		0.3160	0.3274
3	0.4562	0.4260	8	0.4221	0.3984	13	0.3869	0.3959	18	0.3592	0.3641	23	0.3260	0.3512	28	0.3055	0.3177
"	0.4687	0.4289	ľ	0.4342	0.4028	10	0.4006	0.4044	10	0.3568	0.3495	20	0.3265	0.3371	20	0.3081	0.3049
	0.4582	0.4099		0.4259	0.3853		0.3950	0.3875		0.3670	0.3578		0.3370	0.3472		0.3175	0.3139
	0.4373	0.3893		0.4080	0.3916		0.3783	0.3646		0.3616	0.3788		0.3370	0.3472			
4	0.4465	0.4071	9	0.4146	0.4089	14	0.3825	0.3798	19	0.3496	0.3702	24	0.3265	0.3371			
"	0.4582	0.4099	"	0.4299	0.4165	14	0.3950	0.3875	13	0.3481	0.3557	27	0.3270	0.3230			
	0.4483	0.3919		0.4221	0.3984		0.3898	0.3716		0.3592	0.3641		0.3364	0.3328			
	0.4342	0.4028		0.4017	0.3751		0.3702	0.3722		0.3592	0.3641		0.3260	0.3512			
5	0.4430	0.4212	10	0.4080	0.3916	15	0.3736	0.3874	20	0.3481	0.3557	25	0.3144	0.3408			
"	0.4562	0.4260	'	0.4221	0.3984	13	0.3869	0.3958	20	0.3466	0.3411	23	0.3160	0.3274			
	0.4465	0.4071		0.4147	0.3814		0.3825	0.3798		0.3568	0.3495		0.3265	0.3371			

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 (±0.002), MIN= +0 UNCONTROLLED DOCUMENT



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538

12mm x 12mm SURFACE MOUNT LED, WARM WHITE.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

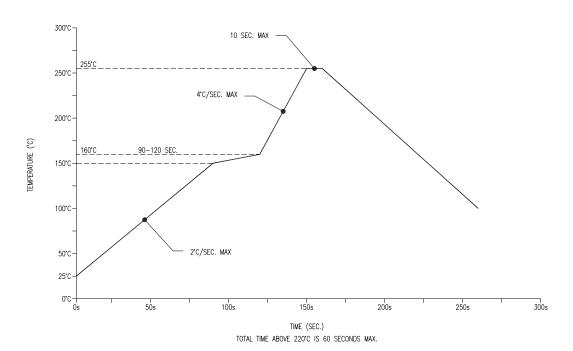
)N	0/10	UNITIOLL.	LD DUCUI	V/ _ / V /
	DATE:	09.22.11	DRAWN BY:	AB
	PAGE:	3 OF 4	CHKD BY:	KF
	SCALE:	NTS	APRVD BY:	JD
	UNIT:	mm [INCH]	Pb	

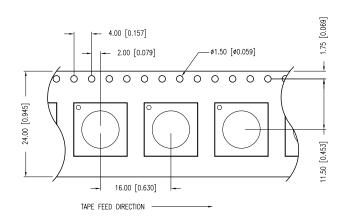
PART NUMBER

SML-LX4747MWCATR10

REV.

LEAD FREE REFLOW PROFILE





*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +0.001 (±0.000) MAX.= +0.001 (±0.000) M UNCONTROLLED DOCUMENT



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 FAX: +1.847.359.6538

12mm x 12mm SURFACE MOUNT LED, WARM WHITE.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

DATE:	09.22.	11	DRAWN BY:	AB
PAGE:	4 OF	4	CHKD BY:	KF
SCALE:	NTS		APRVD BY:	JD
UNIT:	mm [IN	CH]	Po	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumex:

SML-LX4747MWCATR10