

Factory Evaluation Report

Client:	XXXXXXXXXSYSTEMS LTD	Type of Evaluation:	Factory Audit
Vendor	XXXXXElectronics Co. LTD	Project No.:	HIFA1012135678
/Supplier:			
Factory Name:	XXXXXX	Item Description:	LED LIGHT
	ELECTRONIC.CO.,LTD		
Address:	SHENZHEN XXXXX	Auditor:	STEVENWONG,ZAOWEILING
	AREAXXXXX LEZHUJIAO		
	VILLAGE		
Telephone:	0755-XXXXXX	Audit Date:	AUG.12-13,2010
Facsimile:	0755-XXXXXX	Time In:	0900
E-mail:	XXXXXXXX@GMAIL.COM	Time Out	1730
Reason_for Au	dit: [X] Initial Qualification	n [] In- Produ	ection Audit
	[] Follow- up Audit	[] Other (sp	pecify)
Gnereral Overv	view		
Grade System	: Percentage achieved: 84%	Grade A	
>80	% = A 60-80% =B 50-60%	% = C $<50% = Ungra$	<u>aded</u>
	PASS []	FAIL [X]	
Rating: 84%			
If failure, reas	on: Critical item C6,C7,C8,C16 ar	e failed	
Important Rem	arks		
T1.::		E certificate, ROHS cert	ificate for LED tube, and ISO9001
certit			
			as co. 110 and 70 to the control of
3 The li	fe and reliability test should be condu		ets and the records should be
		og pog rog 1 1	11 14.1.1
			•
5			ž *
Vendor XXXXXXElectronics Co. LTD Project No.: HIFA1012135678 Supplier: Factory Name: XXXXXX Item Description: LED LIGHT			
•		Hi Bay Lamp not found n	nanufactured and tested in the
ran;	-		
		refused from factory	
			XXXX specified in SPEC, but only



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	provided a suppliers information for reference "GUANGZHOU XXXX XXXX-ELECTRONIC
	CO.,LTD" part no. HL-A-3528H238W-S.This supplier not found on qualification supplier list
7	The factory inspection is only completely performed on LED strap light due to LED tube light only
	welding process present on site.

Company Orga	nization	Met dur	ring audit?
Managing Directo	r/General Manager Mr. Li XX	XX	[] Yes [X] No
Sales Manager/M	arketing Manager Ms Zhang	XXXXX	[X] Yes [] No
Technical Manag	er/Chief officer Mr.Li XXX	XX	[X] Yes [] No
QC/QA Superviso	r Mr.XXXX		[X] Yes [] No
Production Manag	er/Factory Manage r Mr.Tian X	XXXX	[X] Yes [] No
Complaince /Ethi	cal Manager Ms Zhang XXX	XX	[X] Yes [] No
Human Resources	Manager Ms Bai X	XXX	[] Yes [X] No
Auditor Accompa	nied By Mr Huan	g, Ms JiangXXXX	[X]Yes []No
Person to whom	QC/QA Manager reports: Ger	neral Manager	
Person to whom t	ne Complaince /Ethical Manager	reports: General Manager	
Does QA or Comother areas?	pliance/Ethical Manager have oth	ner job responsibilities in	[] Yes [X] No
If yes, please list:			
Factory has been	n operation since: 2008		
Business	Certificate No.:4403061036XXXXX		
License:	Legal Representative: Mr. Li XXXX		
	Date issued: 2010-07-10		
	Expiration:2018-9-18		
	Register Capital: ¥ 3.5 million		
Last Years Turnover	¥ 50million		
Main product: LF	D Light		
Main market : Eu	rope ,USA		
*Does factory hav	e experience manufacturing this t	ype of product	[X] Yes [] No



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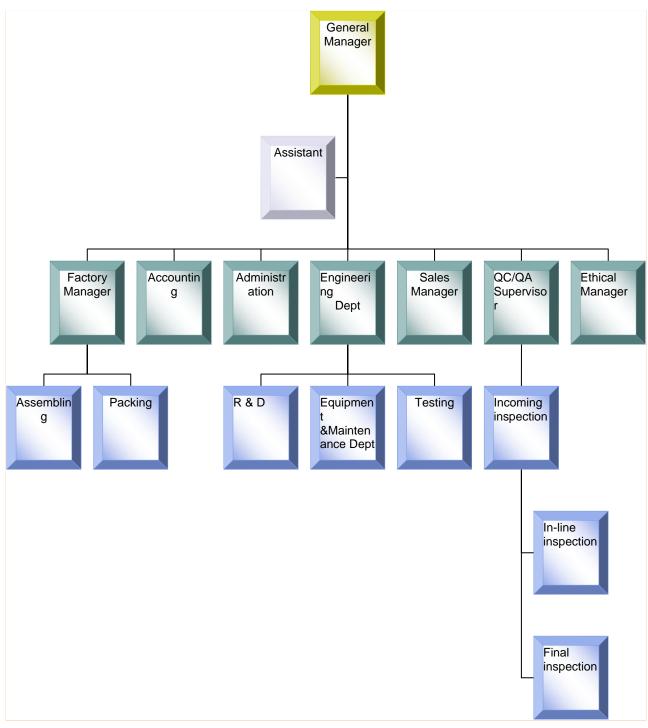
Is this an ISO9000 accredited factory		[X] Yes [] No
If so, give date and type (e.g. 9002) of accredita and the name of the organisation which granted ISO9001:2008 certification approved by XXX on September 17,2009 and valid on September No.04909Q11XXXXX		
Is this an SA8000 accredited factory If so, give date and type of accreditation, the refe of the organisation which granted the accreditation	[]Yes [X]No	
Is this an ISO14000 accredited factory		[] Yes [X] No
If so, give date and type of accreditation, the rename of the organisation which granted the acc		
Is this an ICTI accredited factory?		[] Yes [X] No
If so ,give date and type of accreditation ,the refer the organisation which granted the accreditation		
Does the factory hold any other certifications?	[] Yes [X] No	
If so ,please list		
Has the factory purchased comprehensive accide	[X] Yes [] No	
Does the insurance cover include the value of go	od stored in warehousing?	[X] Yes [] No
Staffing Levels Remarks: Alert client if there is a large discrepancy found between A & B	Manufacturing Personnel: Quality Controllers: Engineers: Others:	150 11 13 70
	Total Employees: Employees employed (A) Employees present at time of	244 244
Does the Factory have the design capability & so:	ftware to produce:	, ,
Instruction Manuals?		[X] Yes [] No
Packaging Artwork?		
If yes then please attach an example to this report.	Photoshop	
Current Major Customers:XXXXX(GERMANY)	XXXXX STATION (GUAN	GZHOU)
List type and number of major items of machinery in factory:		
Goniophoto meters X 1, Lamp complete anal ysis system X1, Digital storage oscilloscope X1, Optical color and electrical measurement system X 1, voltage adjust machine X 10, Hi – pot tester X 4, Plus UV-VIS –NEAR IR spectrophoto color rimeter X 1, vacuum packing machine 3pcs.power parameter tester X 8.black cabinet X4		



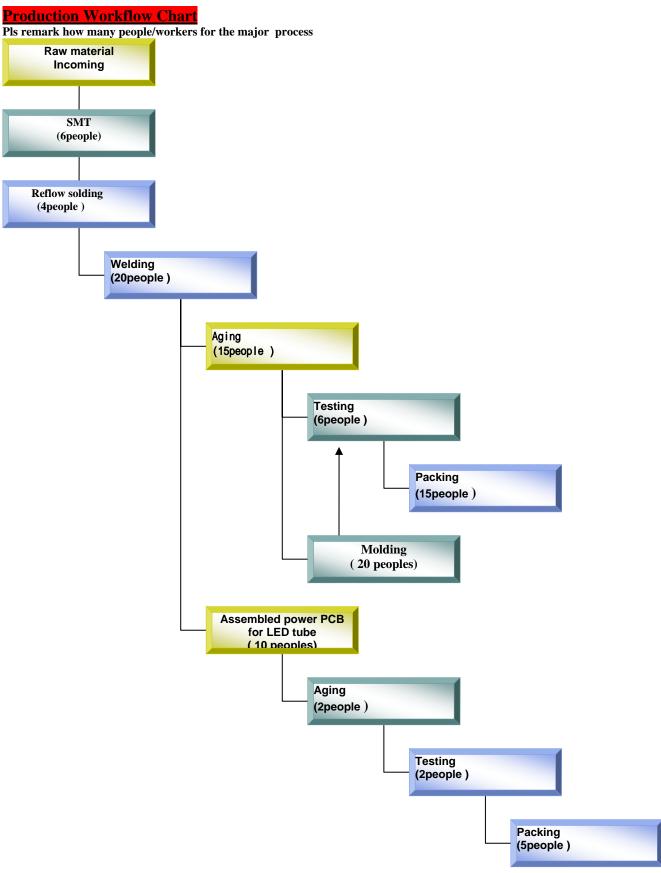
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SUBCONTRACT	
List finished products which are sub-contracted:	N/A
List key components/sub-assemblies which are sub-contracted:	FIBRE PCB, LIGHT SOURCE, POWER BOARD
List processes which are sub-contracted:	PRINTING, ELECTROPLATE

Factory Organization Chart









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A. FA	CILITIES													
1.	Is the plant layout generally accept question?	otable	to ma	nufact	ure th	e item	ı in		[X] Y	es []] No			
2.	Is overall maintenance of the pren	nises a	accept	able?					[X] Yes [] No					
3.	Is the general housekeeping accep		[X] Y	es []] No									
4.	Are procedures in place to control		[X] Y	es []] No									
5.	Is there a no-smoking policy?		[X] Y	es []] No									
6.	Is there a no food and drink policy	y on tł	ne pro	ductio	n floo	r?			[] Ye	s [X]	No			
7.	Is production machinery operated	under	r a ma	intena	nce so	chedul	le?		[] Ye	s [X]	No No			
8.	Does the factory possess a strong production?	maint	enanc	e team	to ba	ick up)		[X] Y	es []] No			
9.	Does the factory have either:													
	(a) A well organised maintenance machinery breakdown or eme	to a	[X] Y	Yes []] No									
	Or													
	(b) Have maintenance cover sub-contracted with a guaranteed response time [X] Yes [] No													
	What is guaranteed response time	? <u>On</u>	e day	at mo	st_			_		i es [J NO			
10.	Are machines/equipment periodic	ally n	naintai	ined, c	alibra	ted, a	nd		[X] Y	es []	No			
	checked to run efficiently?													
*11.	Are available machines/equipment products?	ıt/fixtı	ires su	iitable	to pro	oduce	client	's	[X] Y	es []] No			
12.	If applicable, are injection, rotoca	st moi	ulds, s	prayin	ıg ma	sks sto	ored to)	[X] Y	es []	No			
	Avoid rust or damage?													
13.	Is the communication system effe available?	ctive?	Are f	ax and	l telep	hone	utilitie	es	[X] Y	Yes []] No			
*14.	Does the factory have a back up e	lectric	city su	pply?	400k	W			[X] Y	es []	No			
*15.	Can the back up electricity support	rt the	norma	l prod	uction	dema	and?		[X] Y	es []	No			
16.	What is the Factory Floor Space 1	0000	m²_			Non	-scorii	ng						
17.	Does the Factory have warehouse						-scorii		[X] Y	es []	No			
18.	Does the Factory have in-house d						-scori			es []	•			
19.	Does the factory have Product De					Non	-scori	ng		es []				
20.	Does the Factory have an on-site						-scorii			es []				
Rating	g: Facilities	0	1	2	3	4	5	6	7	8	9			
`	quipment list of facilities if available							X	X					
		10	11	12	13	14	15							



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Item#	Remarks
7	found the overdue maintained record card on Vacuumized packing machine
6	Drink area on the production floor
4	The pest control and sterilization is conducted by local health department regularly.

B. Q	UALITY CO	NTR	ROL S	SYST	EM											
1.	Is there an in	ndepe	ndent	: Qual	lity D	eparti	ment?	,						[X] Y	es []	No
2.	Is factory of	eratir	ng a fo	ormal	inter	nal qı	uality	contr	ol pro	ocedu	re on	its		[X] Y	es []	No
	products?															
3.	Are there in	ternal	train	ing pr	ograr	nmes	prov	ided f	or all	quali	ty coi	ntrol		[X] Y	es []	No
	personnel in						-		ple in	Engl	lish).					
4.	Are there ad	lequat	uate traceable training records? [X] Yes [] No													
5.		he factory's Q.C. personnel certified before they perform their job as med in the Q.C. procedures?														
6.	Does the Q.	C. team display strong quality consciousness? [X] Yes [] No														
7.	Does the factorial standards to	-				-	-		s, or i	its ow	n app	rovec	l	[X] Y	es []	No
8.	Does factory requirement	•				-			rating	g how	safet	у		[X] Y	es []	No
9.	Does factory	y imp	lemer	nt all p	proce	dures	corre	ctly?						[] Yes	s [X]	No
10.	Do detailed	Q.C.	repor	ts ind	icate	that tl	ne pro	ducts	are p	roper	ly			[] Yes	s [X]	No
	checked bef	ore sh	ipme	nt?												
11.	Is there adea	quate	Q.C.	super	visior	n on a	ll shi	fts?						[X] Y	es []	No
12	Does quality importance			-				-	qualit	y poli	cy, aı	nd the	;	[X] Y	es []	No
*13	Does Q.C. h								nertis	e on				[X] Y	es []	No
	products to		-				_		-							
14.	Does factor										,			[] Yes	s [X]	No
	standards re															
Rati	ng:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Q.C.	. System										X	X				X
	Item#			l .]	Rema	rks						<u>'</u>
	9		ne sen		nufac	tured	good	ls trac	ing sl	neet d	oesn'	t fill i	mme	ediatel	y as	



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10	Some QCs doesn't draw samples as requirement. IQC, PQC, FQC doesn't issue inspection report for all quality control, only simple inspection record was performed.
14	Factory not have this international or national standard.

C. IN	COMING INSPECTIONS	
1.	Is there a written procedure for the control of suppliers?	[X] Yes [] No
*2.	Does a new supplier receive formal approval from all relevant departments before an order is placed?	[X] Yes [] No
*3.	Are incoming goods purchased to written specifications?	[X] Yes [] No
4.	Has the factory taken adequate measures to assure raw materials conformance to required specifications before use?	[X] Yes [] No
5.	Are incoming and outgoing raw materials registered and controlled?	[X] Yes [] No
*6.	Is a formal sampling plan used to monitor the quality of incoming raw materials? If so, please comment on which sampling plan and AQL.	[] Yes [X] No
*7.	Is the defect classification clearly documented?	[] Yes [X] No
*8.	Are raw materials properly labelled, stored and traceable?	[] Yes [X] No
9.	Are raw materials kept in controlled storerooms to avoid theft, loss, and any deterioration of quality?	[X] Yes [] No
*10.	If raw materials need inspection before putting into production, are they properly inspected and are records traceable?	[X] Yes [] No [] N/A
11.	Is the inspection sampling schedule adequate and can the quality of the raw materials be guaranteed with confidence?	[X] Yes [] No
12.	Are adequate inspection records maintained to prove raw materials are checked and meet all requirements?	[] Yes [X] No
13.	Are there adequate written inspection instructions available as guidelines to inspectors?	[X] Yes [] No
14.	If testing equipment is needed during inspection, is it sufficient and in good condition with regular calibration? If N/A please confirm method of inspection under remarks.	[X] Yes [] No
15.	Is there a systematic control on the non-conforming raw materials and is it efficient?	[X] Yes [] No
*16.	Are non-conforming raw materials adequately segregated and Identified?	[] Yes [X] No



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Rating:		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Incoming Inspection	ons						X	X	X				X				X
Item#		Remarks															
*6		It is defined sampling plan G-II in factory regulation, but most the IQC draw samples less or more than it.															
*7		The defect classification in quality manual is MI, but inspection record show CR for packing inspection															
*8	Son	ne r	aw r	nate	rials	lab	elled	and	trac	eabl	le not	compl	etely.				
12	No	deta	ailed	insp	pecti	on r	epor	t ma	ide a	nd r	nainta	ined.					
*16		Non-conforming raw materials adequately segregated, but not Identified and labeld															

D. IN	PROCESS QUALITY CONTROL	
1.	Is all tooling fully tested and evaluated to comply with all specifications?	[X] Yes [] No
2.	Are samples of pilot run carefully reviewed by engineers and quality staff to ensure that all safety aspects are being met?	[X] Yes [] No
3.	Is there any documentation from either engineering, QC department, or top management to authorise mass production to customer requirements?	[X] Yes [] No
4.	Are there line patrols by quality controllers or other means to monitor the compliance of the product to meet safety requirements?	[] Yes [X] No
5.	Are working Instructions available at each workstation?	[] Yes [X] No
6.	Do Instructions cover all important characteristics?	[] Yes [X] No
7.	Are obsolete work instructions removed from the production area?	[X] Yes [] No
8.	Are reference samples or specifications available?	[X] Yes [] No
9.	Are they in good condition?	[X] Yes [] No
10.	Is a product coding (date/batch code) method in place?	[X] Yes [] No
11.	Does the coding method provide sufficient information to identify the Product quickly?	[X] Yes [] No
*12.	Does the coding method enable the key components/sub-assemblies to be Identified?	[X] Yes [] No
13.	Is IPQC adequate for the production volume?	[] Yes [X] No
14.	Does factory use international or other approved sampling standards to carry out in-process inspection? Are there records?	[] Yes [X] No
15.	Do records reflect the action taken on rejected lots?	[] Yes [X] No



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16.	Do records show reje accepted lots?	cted l	ots aı	re we	ll ide	ntifie	d and	segre	egated	l fron	n	[X]	Yes	[] No)
17.	Are rejected lots rewo	orked	prop	erly a	nd m	easur	es tak	cen to	ensu	re the	e	[X]	Yes	[] No)
18.	Are there adequate, c Inspectors to follow? QC/QA or external. i	Plea	se cla	rify v								[X]	Yes	[] No)
19.	Are there adequate ap inspectors or workers Please clarify whether	a gui	idelin	e?								[] Y	es [X	K] No	,
20.	Are the inspection an conformance of the se						•	iable	to ve	rify t	he	[] Y	es [X	K] No)
21.	Is the testing equipme	ent ca	librat	ed ac	curat	ely ar	nd is i	t ade	quate	?		[X]	Yes	[] No)
22.	Are the inspection de	Are the inspection defects charted, analysed, and monitored to [X] Yes [] No													
	improve the problems encountered?														
Rating	g: In-Process	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Quali	ty Control				X	X	X							X	X
		15	16	17	18	19	20	21	22						
		X				X									
Item #	1				Rei	narks	1								
4	Welding workstati				ly per			e surf	ace c	heck	instea	nd tes	ting c	heck	for
	PQC not record in Line patrols by qu 1time/ 3hours Aging test for LEI	spect ality (cion d	etail ollers	imme is 1ti	me/1	-2 ho	urs i	-						
5	Some workstation	was 1	not fo	ound v	vorki	ng In	struct	ions	on sit	e.					
19	For SMT procedur	re the	refer	ence	samp	les w	as no	t plac	ed on	site.					
13	Mr Zhu is a IPQC	, but	he is	also	a PQ	C and	l FQC	2.							
14	There is not a formal sampling plan, the PQC draw samples from each process and conduct inspection intermittently. The detailed inspection report for PQC was not made.														
15	The rejected lot was reworked immediately, but not record and some not labeled														
6	Found 5 worker in testing procedure not dressed the static proof equipments.but it is required in work manual.														
18,19	The inspectors are	inter	nal Q	C.											

E. FINAL INSPECTION



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1.	Do factor		ality c	ontrol	lers pe	erform	any ii	nterna	final	inspec	tions	on	[X] Y	es [] No
2.	Do these	inspec	ctions	follow	a for	mal in	spection	on plai	n? If s	o, plea	ase		[] Ye	s [X]	No
	comment	on wl	nich ir	specti	ion pla	ın and	which	AQL	are us	sed.					
3.	Is the def	ect cla	ssific	ation c	elearly	docur	nentec	1?					[X] Y	/es []	No
4.	Are there							nd are	they p	roperl	y filed	l	[] Ye	s [X]	No
	and trace	able to	revie	review quality of products?											
5.			rawings/specifications readily available from quality [X] Yes [] No												
			neering department on request?												
6.	Does fact	-			-		-			sts dui	ring		[X] Y	es [] No
			action to safeguard the products' quality?												
7.	Are there	recor	rds to show factory has ever performed appropriate [X] Yes [] No												
	safety tes	ts?													
*8.			respection and testing records maintained and have they the inspector? [X] Yes [] No												
9.	Do norm	al proc	redures require acceptable inspection reports before [] Yes [X] No												
	authorisa	tion of	of shipment of the products? If not, is there enough												
	control to	guara	rantee quality?												
10.	Does fact	tory pe	erform	adeqı	uate ch	necks (on fun	ctiona	lity? I	f not,	is		[X] Y	es [] No
	the curren	nt proc	edure	adeqı	ıate?										
11.	Are mast	er sam	ples o	f prod	lucts in	n place	e for fi	nal ins	spection	n?			[X] Y	es [] No
12.	Are prod	ucts in	specte	ed for	defect	s in th	e surfa	ce fin	ish?				[X] Y	es [] No
13.	Is there a	n area	suitab	ole for	third _j	party i	nspect	ion?	Non-s	coring	3		[X] Y	es [] No
Doti	ng: Final	0	1	2	3	4	5	6	7	8	9	10	11	12	
	ng: Final ection	U	1	X	3	X	3	0	/	0	X	10	11	12	
				Λ		Λ		D	1		Λ				
	Item#								narks						_
	2					amplir s sam _l			~					n, acti	ıal
	4					forma d and	-		-					%	
	9	The	ere is 1	no nor	mal pi	rocedu	res rec	quire a	ccepta	ıble in	specti	on rep	orts b	efore	
		she	There is no normal procedures require acceptable inspection reports before authorisation of shipment of the products.only FQC signed on workflow sheet ,but still found some sheet without FQC signed after check and master packed.												

F. P.	ACKAGING	
1.	Is the packaging area tidy, free of dust and other contamination?	[X] Yes [] No



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2.	Are there add	equate sa	fegua	rds to 1	oreven	t anotl	ner coi	npany	's pro	ducts		[X] Y	es []	No	
	being packed	•	_	-				1 3	1						
3.	Is there adeq	uate con	trol to	prevei	nt any	defect	ive or	rejecte	ed pro	ducts		[X] Y	es []	No	
	from being p	acked in	to mas	ster car	rtons?										
4.	Are semi-fin	ished pro	ducts	well s	egrega	ited fro	om fin	ished p	oroduc	ets in		[X] Y	es []	No	
	the packing a	area?													
5.	If applicable, are individual products passed through metal detectors												es []	No	
	before and after packing into polybags?														
	(Only applicable to products without metal components)												N/A		
6.	If applicable are heat-sealed bulk polybagged products packed into master												es []	No	
	cartons immediately after passing through a metal detector?												N/A		
7.	Are approved finished products packed immediately into polybags in												es []	No	
	order to avoid dust and dirt? If not, are they properly stored and														
	protected?														
8.	Are master c	artons se	aled i	mmedi	iately a	after fi	lling?					[] Ye	s [X]	No	
9.	Is the method	d of prod	uct co	unt int	to mas	ter car	tons a	ccurate	e and t	0.0		[X] Yes [] No			
	customer req	uiremen	ts? If	not, is	the cu	rrent p	proced	ure acc	ceptab	le to					
	avoid the pos	ssibility (of sho	rtage o	f prod	ucts?									
10.	Are packed r	naster ca	rtons	well st	ored in	n a cov	ered a	rea or	a goo	d		[] Ye	s [X]	No	
	shelter to pro	tect fron	n pests	s/weatl	ner dar	nage?									
11.	Are master c	artons id	entifie	ed with	date o	code, l	ot cod	e and s	sequer	ntial		[X] Y	'es []	No	
	carton numb	er?								T	ı				
Rati	ng: Packagin	g	0	1	2	3	4	5	6	7	8	9	10	11	
											X		X		
Item	#						Re	marks							
8		Found s	some r	naster	carton	s not s	ealed	immed	liately	after	filling	on pac	king a	rea	
10		There is	no in	depen	dent ar	nd seg	regativ	e area	is pro	vided	for pa	cked n	naster		
		carton.													

G. NO	ON-CONFORMING MATERIALS	
1.	Is non-conforming material properly segregated at all stages?	[X] Yes [] No
2.	Is non-conforming material clearly identified?	[] Yes [X] No
3.	Can the factory supply solid proof to guarantee non-conforming	[X] Yes [] No
	materials or products are absolutely segregated from normal	
	production and none will be mixed into the production?	
4.	Are adequate records maintained to show the status of such non-	[] Yes [X] No



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	conforming materials?												
5.	Do records	show that rew	orked	parts/	materi	als hav	e beei	1			[] Ye	es [X]	No
	re-inspecte	d to comply w	ith sta	ndards	s?								
6.	Can the fac	ctory demonstr	ate ho	w they	/ handl	le the r	non-co	nform	ing		[X] Y	Yes [] No
	materials?												
7.	Is scrap material handled satisfactorily? [X] Yes [] No												
*8.	If re claime	e claimed materials are used, is there adequate identification and [] Yes [] No											
	checking a	ainst specification? [X] N/A											
9.	Is the corre	ective action on	ctive action on non-conforming materials effective? [X] Yes [] No										
10.	Is the over	all policy of tre	ating	non-co	onform	ning m	aterial	effect	ive?		[X] Y	Yes [] No
	ng: Non Co	nforming	0	1	2	3	4	5	6	7	8	9	10
Mate	erials				X		X	X					
]	Item#					Re	emarks	S					
	2	Same as C16											
	4	4 Same as D15											
	5 Same as D15												

H. CC	OMMUNICATION, DOCUMENTATION CONTROL AND WORK MO	VEMENT
1.	Do <u>factory</u> 's management and key staff understand English	[X] Yes [] No
	sufficiently to ensure communication? If no, are measures taken to	
	provide effective communication?	
2.	Is there an adequate and formal system for receiving purchase	[X] Yes [] No
	orders, tooling, and equipment?	
3.	Is there an adequate and formal system for receiving and applying	[X] Yes [] No
	drawings, procedures, design change, etc. correctly?	
4.	Are approved drawings and specifications used properly, filed in	[X] Yes [] No
	chronological sequence, and traceable?	
5.	Are drawings, records, and specifications that reflect an adequate	[X] Yes [] No
	history of changes readily available?	
6.	Is any part of the manufacturing process sub-contracted?	[] Yes [X] No
	If so, list. (non scoring question)	
7.	Have sub-contractors been audited within last 6 months on behalf of	[] Yes [] No
	Client ?	[X] N/A
*8.	Does factory give clear instructions to its departmental heads to	[X] Yes [] No
	delegate authority to stop production if the products do not meet	
	requirements of client's standards?	



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9.	Is technica throughout	l information clearly id?	dentifi	ed and	adequ	ately	contro	lled		[X] Y	es []	No	
10.	Do staff realize that all technical information relating to client's [X] Yes [] No projects is confidential?												
11	Rating: Communication, document control and work movement 0 1 2 3 4 5 6										8	9	
-	Item # Remarks												

I. W	ORKING CONDITIONS	
1.	Do you consider the employment practices of this facility fair and non-exploitative? If not, please explain.	[X] Yes [] No
*2.	Is the general working conditions satisfactory including the quality of air? (e.g. measures in place to reduce production fumes/dust/chemical waste etc)	[X] Yes [] No
*3.	Are there suitable guards on the machinery to prevent injury to employees?	[X] Yes [] No
*4.	Is the overall air quality acceptable and free from odour?	[X] Yes [] No
*5.	Are the lighting conditions adequate?	[X] Yes [] No
6.	Are all workers in this facility present voluntarily? If not, please explain	[X] Yes [] No
7.	Are there any prisoners working at this facility?	[] Yes [X] No
8.	Are there guards posted other than for normal security reasons?	[] Yes [X] No
9.	Are employees free to leave once their shift ends?	[X] Yes [] No
*10.	Are all workers in this facility at least 16 years of age?	[X] Yes [] No
	What is the youngest age of workers hired in this facility? 22	
	What is the legal age requirement for working in this country? 16	
11.	Are workers given work to take home?	[] Yes [X] No
12.	What is the lowest hourly wage paid by this contractor	
	For <u>trained</u> facility workers? <u>12</u> Local <u>1.64</u> USD	
	For <u>untrained</u> facility workers? <u>6.9</u> Local <u>0.99</u> USD	
	Is this equal to or higher than the government standard?	[X] Yes [] No
	What is the number of scheduled work hours per day/week at regular pay? <u>8/40</u>	
13.	Are workers provided accommodation and food free of charge?	[] Yes [X] No
14.	Do workers have at least one day off in seven?	[X] Yes [] No
15.	Are supervisors allowed to use corporal punishment?	[] Yes [X] No



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16. Is then	16. Is there any evidence that employees have been abused? [] Yes [X] No																
Rating: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14										15	16						
Working Conditions																	
Item#	Remarks																

K. Working Conditions

Key: Award 1 point for each "yes" answer to questions: 1, 2, 3, 4, 5, 6, 9, 10, 12, 13 & 14

Award 1 point for each "no" answer to questions: 7, 8, 11, 15 & 16

J. MI	EASURING	EQUIPMENT CON	TROL									
1.	Are gauges	s and test/inspection eq	uipmen	t, includ	ing cus	tomer o	wned	[X]	Yes []	No		
	gauges / ec	quipment, maintained a	nd adec	quately s	tored?							
2.	Are gauges	s and test / inspection e	quipme	nt, inclu	ding cu	stomers	5;	[X]	Yes []	No		
	checked by	hecked by a formal system and records maintained?										
	are they id											
	(a) Item identification/serial number? [X] Yes [] No											
	(b) Date calibrated/inspected? [X] Yes [] No											
	(c) Date due for calibration/inspection? [X] Yes [] No											
	(d) Initial or stamp of person performing											
	calibration/inspection? [X] Yes [] No											
3.	Is calibration frequency adequate? [X] Yes [] No											
4.	Does the c	alibration schedule incl	lude per	rsonally	owned	measur	ing	[]	Yes []	No		
	equipment	and customer owned e	quipme	ent?				[X]	N/A			
5.	Are there I	Master Reference stand	ards av	ailable f	or calib	ration o	f	[]	Yes []	No		
	electrical a	nd mechanical equipm	ent; or i	if standa	rds are	not ava	ilable, is	[X]	N/A			
	there an ac	ceptable calibration alt	ernative	e?								
6.	Are all Ma	ster Reference Standar	ds certi	fied trac	eable to	Nation	ıal	[]	Yes []	No		
	Standards	or equivalent?						[X]	N/A			
7.	Is calibrati	on frequency of standa	rds ade	quate?				[] }	Yes []	No		
								[X]	N/A			
Ratin	g:	5	6	7								
Measu	uring Equip	oment Control					-	-	-	-		
]	Item#			I	Remark	S						



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K. LIFE AND RELIABILITY TESTING				
MANUFACTURING PROCESSES – List	●N/A			
finished products which are sub-contracted				
List key components/sub-assemblies which are sub-contracted	●N/A			
List processes which are sub-contracted	●N/A			
List all critical parts produced in-house	●N/A			

FINIS	HED PRODUCT					
*1.	Is ongoing life reliability testing carried out on finished (current	[X]Yes	[]No			
	production) product?					
*2.	Does the factory have the necessary equipment /facilities to conduct	[X]Yes	[]No			
	life/reliability testing in-house?					
3.	Is type/qualification testing undertaken?	[X]Yes	[]No			
4.	Do products undergo 100% Dielectric Voltage withstand test?	[X]Yes	[]No			
5.	Are procedures for life/reliability testing available?	[X]Yes	[]No			
6.	Is there a formal system of investigating failures?	[X]Yes	[]No			
*7.	Is there a recording system for failures?	[X]Yes	[]No			
*8.	Is there a formal feedback to design?	[X]Yes	[]No			
9.	Does the supplier understand that reliability requirements on drawings	[X]Yes	[]No			
	are mandatory specifications?					
10.	Is testing conducted under load?	[X]Yes	[]No			
11.	Is there an acceptance criteria? What is acceptance criteria?	[X]Yes	[]No			
*12.	Are records maintained?	[X]Yes	[]No			
*13.	Are finished products batch/date coded?	[X]Yes	[]No			
*14.	Are traceability records maintained?	[X]Yes	[]No			
15.	Is life/reliability testing independent or in-house? In-house	Non-scoring question				
16.	What is the frequency of testing? See remark	Non-scorii	ng question			
	Frequency: For New Number of samples tested: 1					
	product pc/mo del					
17.	What is the duration of testing? See remark Non-scoring question					
	Aging test 100% on products for 12-16hours					
18.	What is the testing criteria? See remark	Non-scorir	ng question			
	<u>Frequency:</u> <u>Duration:</u> <u>Cycles:</u> <u>Other:</u>					
	At all time 12-16h TSInnections Service Address: Room 807, 8/F, No 31 Vachang Street, Ningbo					



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19.	Additional information:

K. LI	FE Al	ND RE	LIABI	LITY	TESTI	NG con	tinued							
LED	LIGH	$oldsymbol{\Gamma}$ (finis	hed pro	duct)										
20.	Is ongoing life reliability testing carried out on LED?										[2	X]Yes	[]N	0
21.	Are p	Are procedures for reliability testing available?											[]N	O
22.	Is the	there a formal system of investigating failures?											[]N	O
23.	Is the	there a recording system for failures?										X]Yes	[]N	o
24.	Is the	ere a fo	rmal fe	edback	to desi	gn?					[2	X]Yes	[]N	O
25.	Is tes	ting co	nducte	d under	load?						[2	X]Yes	[]N	O
26.	Is the	ere an a	cceptai	nce crit	eria? V	Vhat is	accept	ance cr	iteria?		[]	X]Yes	[]N	o
27.	Are r	ecords	mainta	ined?							[2	X]Yes	[]N	O
28.	Are u	ınit bat	ch/date	coded'	?						[2	X]Yes	[]N	o
29.	Are t	raceab	ility rec	ords m	aintain	ed?						X]Yes	[]N	0
30.	Is testing independent or in-house? In-house Non-scoring question													
31.	What	t is the	frequer	cy of t	esting?	See re	mark				Ì	Non-scoring question		
	Frequ	uency:	Nev	produ	ct]	Numbe	r of saı	nples to	ested:	1pc/it	em			
32.	What	t is the	duratio	n of tes	sting? S	See rem	ark				Ì	Von-scor	ing que	stion
33.	What	t is the	testing	criteria	? See	remark	-				Λ	lon-scor	ing que	stion
	:	Load:		<u>Dura</u>	<u>ition:</u>		Cycle	<u>s:</u>	<u>C</u>	Other:				
			1	2-16h										
34.	Addi	tional i	nforma	tion:										
Ratin	g: Life	& Rel	iability	Testir	ıg		ı	1			1	1	ı	T
0	1 2 3 4 5 6 7 8 9 10 11						11	12	13	14				
15	16	17	18	19	20	21	22	23	24					
I	tem#		1		1			Remarl	ΚS					

SUMMARY OF POINTS ACHIEVED			
SECTIONS	Minimum	Maximum	Total Points
	Points Needed	Points Possible	Achieved



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_	•	•	•	

A. Facilities	11	15	13
B. Quality Control System	10	14	11
C. Incoming Inspections	11	16	11
D. In-Process Quality Control	15	22	15
E. Final Inspections	8	12	9
F. Packaging	6	11-2	9
G. Non-conforming Materials	7	10	7
H. Communication/Document Control	6	9	9
I. Working Conditions	11	16	16
J Measuring Equipment Control	2	7-4	3
K. Life & Reliability Testing	17	24	24

Total Points Achieved 127 Maximum Points Possible 150 Overall Rating (%) 84

All individual sub-groups must meet minimum points needed.

TSInspection's default Overall Rating must be no less than 70%

Failure of any critical (*) items? _____ (Items marked with a "*" are considered critical. Any "no" response requires immediate failure of the Factory Audit)

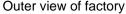
The above reflects our findings for the particular factory in concern on the date of our service only. This report does not certify, confirm or imply: a) compliance with any government, industry or association regulations or standards, unless stated otherwise; or, b) the quality of any specific products manufactured by the factory/sellers/suppliers; or, c) the shipment of any specific products. This report does not discharge or release the factory/sellers/suppliers from their commercial, legal or contractual obligations with buyers in respect of products manufactured by the factory/sellers/suppliers. Our services, including reports and certificates, are subject to the General Conditions of Service of TSInspection which have been sent to your company. They can be resent upon written request.. This audit Report Shall Not Be Reproduced Except In Full Without The Approval Of TSInspection And The Client.

Conduct Audit Photos

Factory Name: XXXX OPTO-ELECTRONIC.CO.,LTD

Audit Date: AUG.12-13,2010







Factory office

TSInpectione Service Address: Room 807, 8/F, No.31 Yaohang Street, Ningbo, China Tel: +86 574 27891016, Fax: +86 574 27891017 E-mail:cs@tsinspection.com Website: www.tsinspection.com



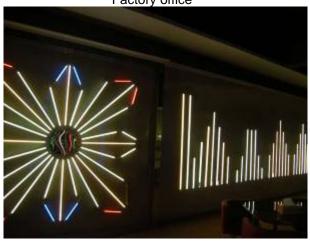
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Factory office



Shown room



Shown room



Raw material warehouse



Raw material warehouse



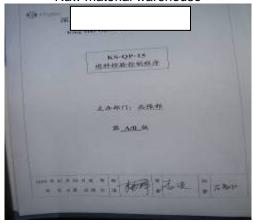
Raw material warehouse



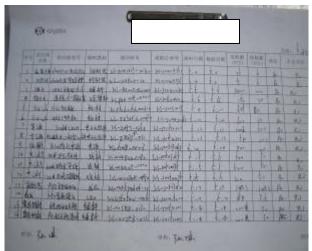
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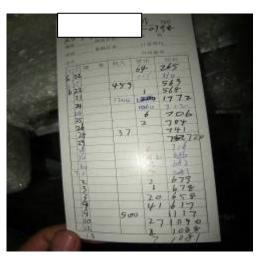
Raw material warehouse



Inspection instruction for IQC



IQC record



Incoming and outgoing card



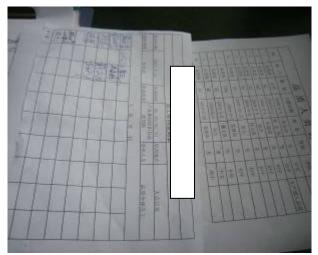
Non-conforming raw materials adequately segregated, but not Identified and labeld

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qualification supplier list



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QC internal training programmes and QC name list



SMT



SMT-1



SMT-1



SMT-2



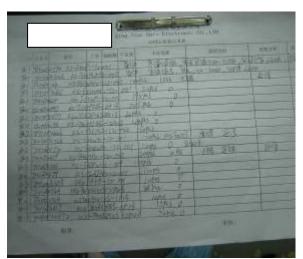
machines maintenance



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Work instruction



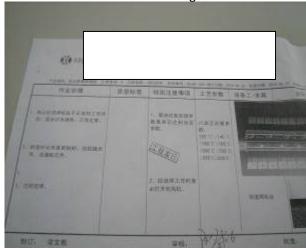
PQC record



Reflow solding



Reflow solding



Work instruction



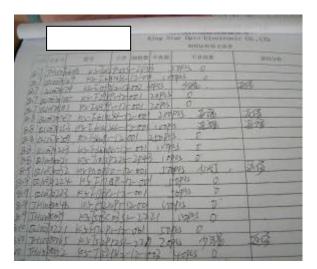
Approved sample



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Reflow solding check



PQC record



Inspection manual



Weiding



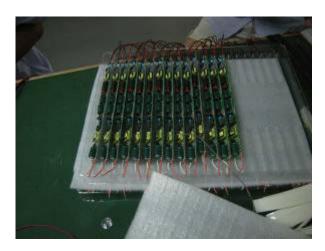
Weiding



Drink on work floor



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Welding for tube light manufacture



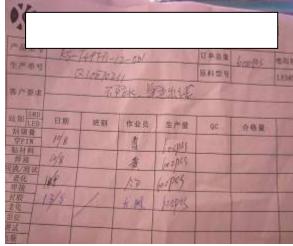
Aging check



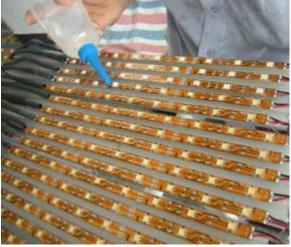
Molding



Welding for tube light manufacture



In –process labelled and traceable not completely.



Molding



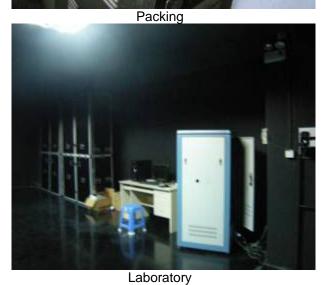
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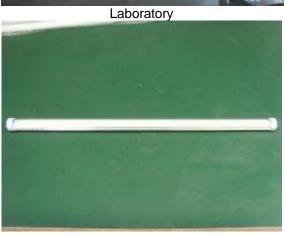


Laboratory

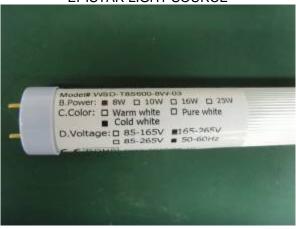




EPISTAR LIGHT SOURCE



T8 LED Tube test



T8 LED Tube test



T8 LED Tube test



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T8 LED Tube test



T8 LED Tube test



T8 LED Tube test



T8 LED Tube test



T8 LED Tube test



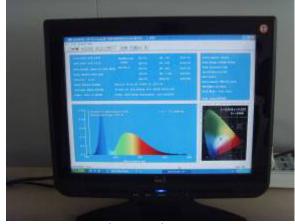
T8 LED Tube test



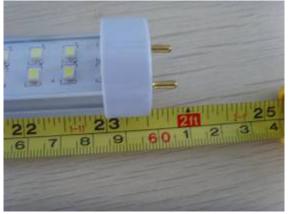
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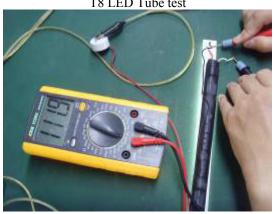
T8 LED Tube test



T8 LED Tube test



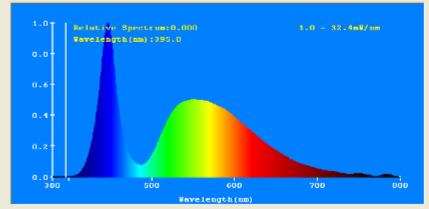
T8 LED Tube test

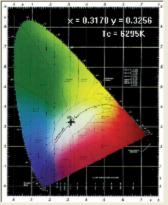


T8 LED Tube test

x-0.3170 y-0.3256	Rendering	R1=71	R6 -63	R11-71
u-0.2021 v-0.3114	index	R2-73	R7 -78	R12-39
CCT: 6295K (duv=-7.46e-004)	Ro=70.5	R3-71	R8 -64	R13-70
Prep WaveL:485.4mm		R4=73	R9 =-19	R14=83
Purity: 6.19		R5=72	R10=33	R15-68
Peak WaveL:445nm F	Matio: R=12.69	G-04.1% B-	0.00	
Average Wave:544nm U	-218.7 V 1-0.0	9452A P-7.35	4W PY-0.744	
Lumi. Pow.:2.868W Y	lux: 904.191	Efficacy:	122.951m/¥	

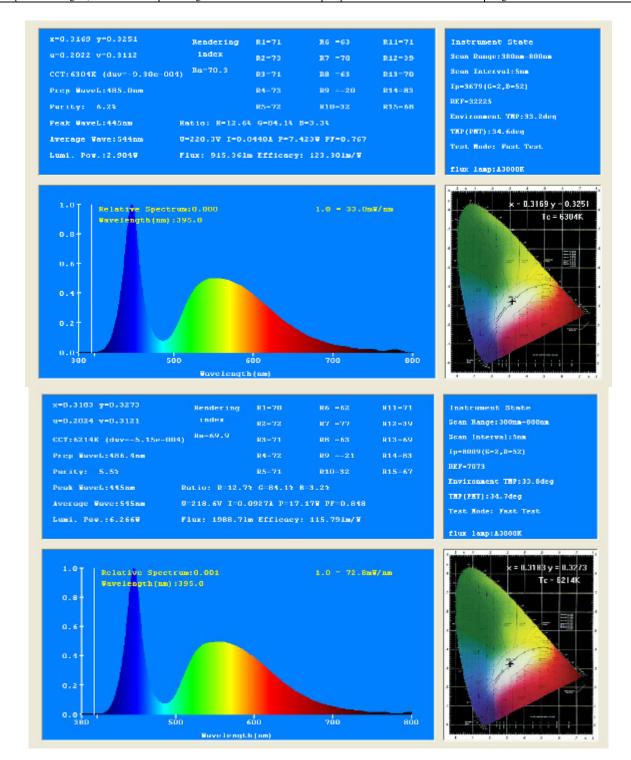








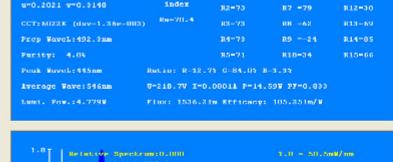
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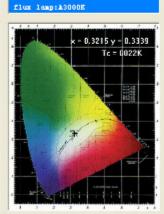




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R6 =62 R1=70 u-0.2025 v-0.3126 Scan Range: 300nm-000nm R2-72 R12-39 CCT:6160K (duv=-2.53e-004) Re=69.9 Scan Interval: Snm Ip-0006 (G-2,D-52) Prep WaveL: 487.2mm R9 =-22 R14-83 R4=72 REF-7070 Purity: 5.24 Environment TMF: 33.7deg Peak WaveL:445nm Ratio: R-12.7% G-84.2% B-3.2% THP (PHT): 34.7deg U-218.8V I-0.0917A P-17.05W PF-0.850 Average Wave: 545nm Test Mode: Fast Test Flux: 1990.21m Efficacy: 116.721m/W flux lamp: A3000E x = 0.3190 y = 0.3285 Relative Spectrum:0.001 Wavelength(nm):395.0 1.0 - 72.1mW/mm Tc = 6168K0.8 0.4 500 ado Wavelength (nm) Rendering Ri-70 R6 -63 Instrument State u=0.2021 v=0.3148 index Scan Range: 380nm-800nm R2=73 R7 -79 Tp=6041 (G=2,D=52) Prep WaveL: 492.3nm R14-85 Purity: 4.0% R10=34 R15=66 Environment TMP:39.9deg Peuk Wavel: 445nm Rutio: R-12.7% G-84.0% B-3.3% TRP (PRT): 34.7deg

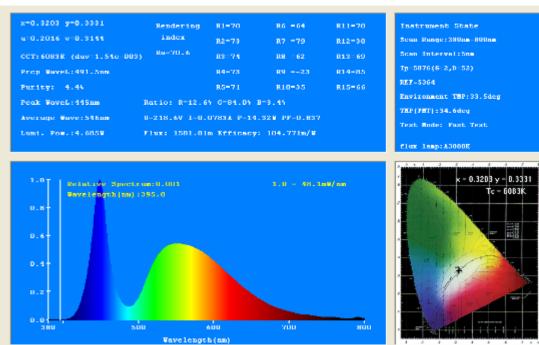


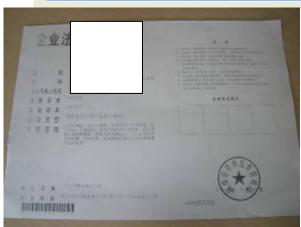


Test Hode: Fast Test



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Business licence



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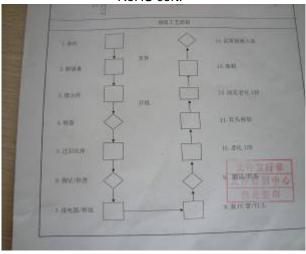


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Quality manual



RoHS cert.



The producing process

CE-EMC for T8 tube



CE- LVD CERT.



procedure document

TSInspection Auditor	STEVEN WONG, ZAOWEILING	Audit date	Date:12-13, Aug,.2010
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End of Report