

HERCULUX Chengdu HercuLux Photoelectric 恒坤光电 Technology Co.,Ltd

Product Approval

Approval number:

Customer:

Product: 3517 15° XHP35 lens Material Code: 1.01.6756

PN: HK-35@17-15-XHP35-22-1g-1

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd



	Supplier confirmation			Client confirmation			
Proposed		DATE		Qualified□			
Project manager		DATE		Unqualified□		DATE	
Audit		DATE		Audit		DATE	
Approved		DATE		Approved		DATE	
Stamp		DATE		Stamp		DATE	

(Confirmation of acceptance by both parties must be signed and sealed)

Factory: Chengdu Shuangliu District, Iot industrial park 2 road HercuLux Photoelectric Park

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Sales Dept: Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building,

TEL: 0755-2937 1541 FAX: 0755-2907 5140

*Approval In duplicate, for both supplier and customer.

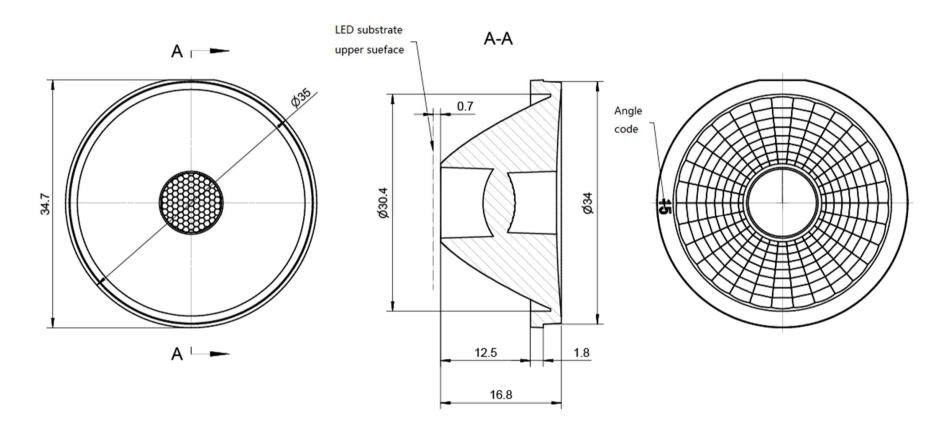


HERCULUX Product Approval

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Product Picture:	
PN:	HK-35@17-15-XHP35-22-1g-1
Size(L*W*H/Φ*H):	Ф:35mm; H:17.2mm
1.07.81418_HK-166@03-0223-S	PMMA
Effiency:	\
Temperature(Topr):	-40°C to +120°C
FWHM:	15°
Matched LES:	Sharp 4W





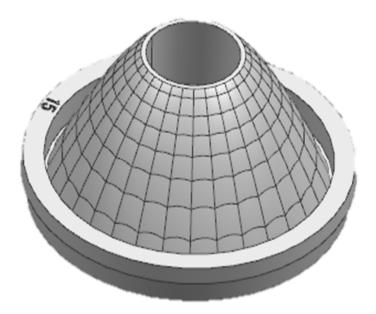
Technical Requirement:

- 1. The surface don't have any defects of flash, shrink and bubble.
- 2. The uncharted fillet and pattern draft subject to the 3D drawing.
- 3. The uncharted dimensional tolerance subject to the 3D drawing.

Optical Design					HK-35@17-	15-XHP35-22-1g-1	1. 01. 6756
Structure Design	re Design 3517		3517 15° XHP35 lens		Pages	Qty	Weight
Assess					2		
Authorized			Material:	PMMA		CDHK	







Temporarily no



			Standard size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Judg ment	Remarks	
1.Size	Diameter		35								Test environment: In 20 °C -25 °C environment to	
1.0120	Higl	Highth 12.9									achieve thermal equilibrium after the test.	
				G	ate shear	can not affe	ct the appea	arance of th	e lamp			
				;	See attachi	ment "Appe	arance Insp	ection Stand	dards"			
		ttachment earance	E	1	No burr	No burr	No burr			ОК		
Quality		Inspec Standa		_	N	No stains				No stains	J.K	
3.Materia	al			PMMA	\		Color	Tra	ansparent		OK	
	Testing	J LED					Sharp	4W				
	FWI	НM		See light distribution curve								
4.Optica	Angle											
I index	K-value											
	Effic	iciency										
	Facula	See th	e signature	sample		•						
Compret e judgr							Qua	lified				
					P	C product :	size change	es with ten	nperature	table		
Remarks: 1. Tool Number: V- Vernier Caliper 2D- Quadratic H-Height Gauge M-Tool Microscope P- Needle T-Thick Gauge R- Radius Gauge E-Visual. 2. Ambient temperature on the size of the product refer to the table on the right		e R- al. ure uct		gth 0.9 nges 0.8 nm) 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0	10	20	30	40		ize: 50mm ize: 100mm ize: 150mm ize: 200mm ize: 250mm ize: 300mm		

Precautions:

- 1. Wear clean gloves during lens assembly to prevent contamination of the lens surface.
- Take the lens try to avoid touching the total reflection surface.
 When the lens surface contamination, you can only gently wipe with soft cotton sticky neat neutral solvent, not allowed to wipe with industrial solvents.



PN		HK-35@17-15-XHP35-2	22-1g-1	Product Name 3517 15° XHP35 lens			ıs
Product	material	PMMA		Customer			
Package diagram		Single Vacuu	um package	Box pack	cage	>	
Product	packing	27	A/ Box	4	Box/Layer		
	. 5	17	Layer/Box	1836	A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1	2.07.0049	Blister box	23cm*21cm	68	BAG	
Deeleesin	2	2.08.0001	PE film	30cm*30cm	68	PCS	
Packagin g Materials	3	2.06.0005	Reel label paper	6.2cm*8cm	68	PCS	
Materials	4	2.06.0005	Box label paper	6.2cm*9.2cm	1	PCS	
	5	2.06.0003	big plate	46.8cm*42.8cm	18	PCS	
	6	2.06.0001	big carton	46.8cm*42.8cm*36c m	1	PCS	
Remarks		packing is not subject to this sp 4 bags for each layer and 5 bag			shall prevail(The	re are th	nree



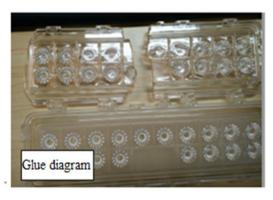
Special notice

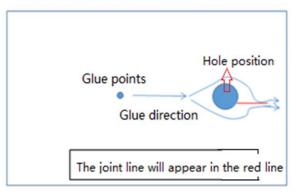
When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. The product which uses multi-point injection welding line will appear because of the combination of sol, as shown below:

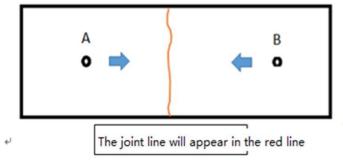
Syntneti











Please note:

The appearance of lines in the structure of the product as well as at the screw hole is a normal phenomenon, will not affect the actual use of the product, and can not be avoided at this stage.



Appearance inspection standards

1 Operating procedures

1.1.1Sampling standards, sampling plan and AQL

Test level : GB/T2828.1-2012The first part is according to the acceptance quality limit (AQL) retrieval batch inspection sampling plan, general inspection level Π level, CR class defect coefficient 0, MA defect rejection level AQL = 0.65, MI class defect rejection level AQL = 1.0; defect level please see 5.4.

2 Code table

Code	Code	Unit	Code	Code	Unit
	description			description	
N	Amount/pcs	pcs	D	Diameter	mm
L	Length	mm	Ħ	Depth	mm
W	Width	mm	DS	Distance	mm
S	Proportion	mm²	SS	Offset	mm

3 Test conditions

- 3.1 Sight distance and working hours: Sight distance should be 30-35cm, each side of the inspection time does not exceed 12s, the visual angle of 45-135 degrees;
- 3.2 Light: 2x40w cool white fluorescent lamp, the light source is 500-550mm away from the lens surface; in order to make the appearance defect can be correctly recognized, the illumination should be 500-1000Lux, and the observation time is 10 seconds.
 - 3.3 Visual inspection staff should be 1.0 (including corrected visual acuity) above, no color blindness, color weakness.

4 Appearance inspection standards

Test items	ludging standard	Inspection equipment	Defec	Defect level		
reschenis	Judging standard	Testing method	MI	MA	CR	
	When start the machine and process, all products have to check the appearance of the sample, the appearance of the sample is divided into qualified samples and limited samples.					
Check the sample	1: Qualified sample refers to the appearance and structure standard of the product which recognized by the client, the sample size should be confirmed before mass production;	Sample comparison , visual			√	

1		1	Ī	1	
	2: The limited sample refers to the limit of a particular exceptionally developed sample. Limit the sample only for its specific point of exception to confirm; The priority is higher than the other criteria in this table. When there is a limited sample, the limit sample shall prevail.				
Raw edge	Not allowed to affect the size and assembly	Visual, point card		√	
Scratch	1: Non-optical surface and non-exposed surface scratches should be visually insignificant and the length is less than 1/10 of the maximum surface size.	Visual, point card, calipers		√	
Fingerprint	Fingerprints are not allowed on all products	Visual		√	
Foreign objects, black spots, white spots	The product may not be attached to foreign objects, including oil, fiber, dregs of water gap and so on				√
Deformation	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces.	Visual, feeler			√
Poor ejection	Products may not appear bad ejection, including no convex top, thimble printed on the assembly surface shall not be higher than the product surface, non-assembled surface thimble height should not exceed the product size tolerances; thimble printing should be less than the product surface and no more than 0.3; thimble surface treatment should be consistent with the product side. Ejection strain: the optical surface and the appearance of the exposed surface after assembly are not allowed to have a strain, and the structural surface does not allow visual obvious strain.	Visual, point card		√	
Insufficient filling	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces, The signature sample shall prevail.	Visual, point card		√	
Shrink	When the entire surface of the product shrinks, the optical properties and dimensions must meet the requirements, and the visual will not significantly affect the appearance.Part shrink reference point defects	Visual, point card		√	
Flow marks、Welding line	 1 : Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided; 2: The remaining flow marks shall not appear in the optical surface, a single L ≤ 10mm, no more than two 	Visual		٧	

Bubble	No bubbles are allowed	Visual		√	
Foreign objects, black spots, white spots	Not obvious or D ≤ 0.3mm black spots and foreign bodies in the area of 100x100mm not more than 1; Exceeded foreign matter black spots is judged bad.	Visual, point card	V		
Damaged	No damage is allowed	Visual			√
Cold glue	Optical surface may not have cold glue, non- optical surface cold glue should meet the visual is not obvious.	Visual	√		
	1: Do not affect the product size, shall not penetrate the optical surface, the cut should be smooth;				
Bad incision	2: Laser cutting products, the optical surface burns shall not occur after the processing is completed. Beading must not affect product installation	Visual			√
	3: Three molds and hot runner gate shall not appear residue.				
Scrub	Scrub surface should be uniform, off the scrub phenomenon should not be obvious , A single off scrub imprint requires D \leq 1 mm and no more than 1 area within a 50x50 mm area	Visual		√	