

Approval number :

Customer :

Product : HK Rainbow D75-75 degree lens

Material Code : 1.01.12963

PN : HK-CH-71@18-75-D14-00-1g-1

Manufacturer : Chengdu HercuLux Photoelectric Technology Co.,Ltd



Supplier confirmation				Client confirmation				
Proposed		DATE		Qualified□		D 4 75		
Project manager		DATE		Unqualified□		DATE		
Audit		DATE		Audit		DATE		
Approved		DATE		Approved		DATE		
Stamp		DATE		Stamp		DATE		

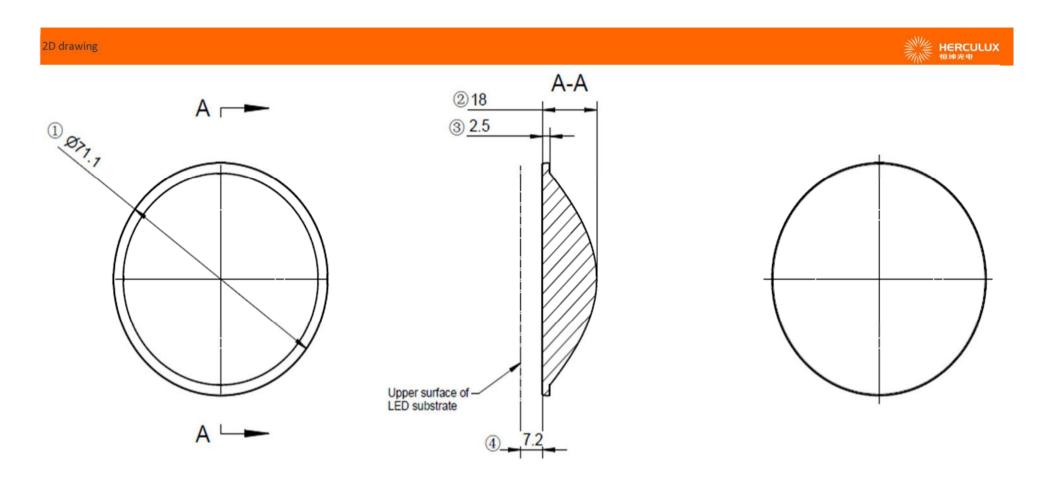
(Confirmation of acceptance by both parties must be signed and sealed)

Factory: Chengdu Shuangliu District, Iot industrial park 2 road HercuLux Photoelectric ParkPhone : 028-85887727 (801)028-85887990 (801)Fax : 028-85887730http://www.herculux.cn/Sales Dept: Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building,TEL: 0755-2937 1541FAX: 0755-2907 5140

*Approval In duplicate, for both supplier and customer.



TEL: 0755-2937 1541 F	AX: 0755-2907 5140	http://www.herculux.cn/	Date updated: 2022/7/15
Product Picture			
PN		HK-CH-71@18-75-D14-0	0-1g-1
Size(L*W*Η/Φ*Η)		Φ : 71mm*H : 18mr	n
Material		PC	
Effiency:		X	
Temperature(Topr)		treme temperature resistand -term use temperature : -40	
FWHM		75°	
Matched LES		CLU-038	



Technical remark:

MT5

Tolerance

table

Basic size

lerance val

1. The 3D map is not indicated for rounded corners and draft angle.

2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT

3, The surface has no flash, shrinkage, bubbles and other defects.

<3

±0.1

*4. When the lamp adopts rubber ring for waterproofing: the roughness of the con surface between the radiator and the rubber ring is required: Ra<3.2µm

3~10

±0.15

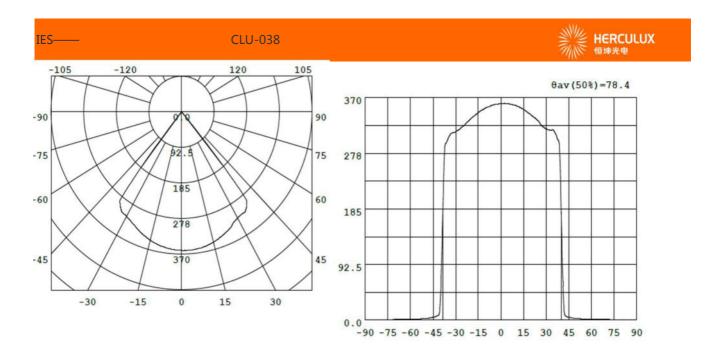
10~24

±0.2

24~65

±0.35

2008 MT5.		Optical	desig						HK-CH-71@18-75-D14-00-1g-1					
			ructure desi					HK Rainbo	1.01.12963					
		t	Rev	iew					lens	mber o	f drawi	qty	we	ght
			Valid	ation				Material:	РС			CDHK	-	
	65~140	140~	~250	250~	~450	>4	450	-		-				
	±0.50	±0.	.80	±1	2	±2	2.0							



Sample size test report HK Rainbow D75-75 degree lens

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			Standard size	Upper Size limit	Low size li	-	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	The diam of	neter	71.1	$\overline{\ }$			71.15	71.18	71.15	71.16	\setminus	Test environment: In 20 ℃ -25
1.Size	The thick of the		2.5	\searrow			2.6	2.56	2.61	2.55	\square	℃ environment to achieve
	highly	/	18	$\overline{}$	\geq		17.9	17.88	17.86	17.88	\square	thermal equilibrium after the test.
				Gate she	ar can	not a	affect the a	ppearance	of the lamp)		
				See atta	chmen	t "Ap	pearance	Inspection	Standards"			
2.Appear	ance		See achment pearance	E		Ν	lo burr	No burr	No burr	No bu	rr	ок
Quality		Ins	spection andards"			No	o stains	No stains	No stains	No stai	ns	
3.Materia	al			PC				Color	Tra	nsparent		ОК
	Testing I	LED					C	CLU-038				
4.Optica		y of t		the source of the test, if it is required to be out of range. According to the heat dissipation lamp and the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life. See light distribution curve								
l index	angle			78.4			78.4°	78.6°	78.4°	78.5°	/	
	K-value								\backslash		/	
	Efficie	ency		90. 2% 90. 5% 89. 8% 90. 4%					90.4%	/		
	Facula	See	the signatu	re sample			`					
	ehensive ment				Qualified							
				Longth		proc	luct size c	hanges wi	ith tempe	rature tal	ble	
Caliper 2 Height G	Number: V D-Quadra auge M-Te	tic H- ool		Length changes (mm)	1 0.8 0.6					Size:		١
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 on		0.4 - 0.2 - 0					Size: 150m Size: 200m	m	
					C)	10 2	20 30	40 (℃	:)		
	e wear clea			the lens as					ns surface	from being	l conta	aminated.

Please wear clean gloves during the lens assembly process to prevent the lens surface from being contaminated.
 Try to avoid touching the total reflection surface when taking the lens.

3. The lens surface is contaminated. Only use a soft cotton cloth dipped in analytically pure neutral solvent to wipe gently. Do not wipe with industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA Body, etc.).

4. The working temperature of the lens should be within the temperature resistance limit of the lens material. Exceeding the temperature resistance limit will cause the lens to crack or melt and affect the service life of the lens. It is recommended that the upper surface temperature of the LED colloid should be less than 120 degrees.

Packaging Information

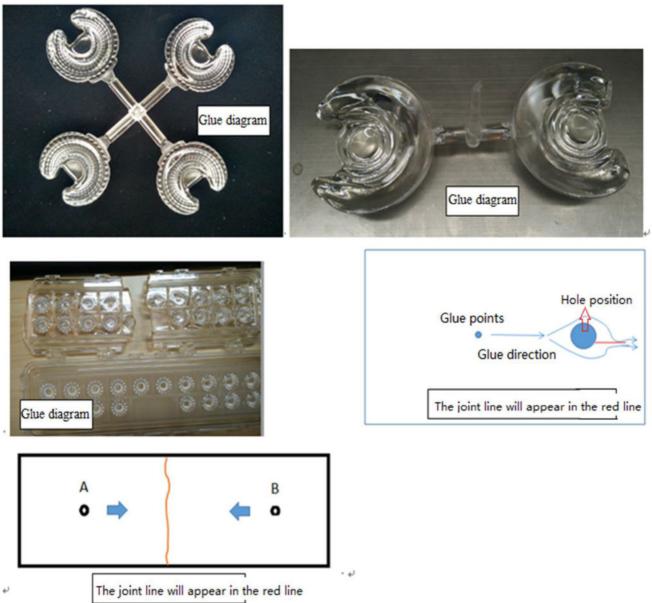


P	N HK-CH-71@18-75-D14-00-1g-1			Product Name	HK Rainbow D75-	75 degr	ee lens
Product	et material PC			Customer			
Package diagram		Single Vacuu	im package	Box p	ackage	>	
Product	packing	8	A/ Box	4	PCS/Layer		
r roudot publing		8	Layer/Box	256	A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1	2.07.0044	Blister box	23cm*21cm	32	BAG	
Daakagin	2	2.08.0001	PE film	25cm*27cm	32	PCS	
Packagin g Materials	3	2.06.0005	Reel label paper	62mm*42mm	32	PCS	
Materials	4	2.06.0005	Box label paper	62mm*70mm	1	PCS	
	5	2.06.0003	big plate	46cm*42cm	9	PCS	
	6	2.06.0011	big carton	48cm*44cm*37c	:m 1	PCS	
Remarks	5	Scattered packaging is not restri	cted by this sp	ecification, custom	er requirements shal	l prevail	

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 description	Unit	Code	Code description	Unit
N	Amount/pcs	pcs	D	Diameter	mm
L	Length	mm	Н	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		Inspection equipment	Defec		
Test tiems	Judging standard	Testing method	МІ	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			V
	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		V	
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		V	
Fingerprint	Fingerprints are not allowed on all products	Visual		V	

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				V
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.	Visual, point card		V	
	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.				
Insufficient filling	Insufficient filling shall not affect the appearance of the assembly and the exposed surfaces, The signature sample shall prevail.	Visual, point card		V	
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		v	
Flow marks、Welding line	 Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided; The remaining flow marks shall not appear in the optical surface, a single L ≤ 10mm, no more than two 	Visual		V	
Bubble	No bubbles are allowed	Visual		V	
Foreign objects, black spots, white spots	Not obvious or $D \le 0.3$ mm 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	V		
	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			V
	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 $D \le 1$ mm and no more than 1 area within a 50x50 mm area	Visual		v	