OPTICAL ENERGY DESIGN & DEVICES

www.herculux.cn





Address: shenzhen nanshan district nanshan cloud valley innovation industrial park

comprehensive service building, 501-505 Factory: chengdu shuangliu district, iot industrial park 2 road herculux photoelectric

park

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

Specification



1. Product Number: HK-75@21-13_40-D9-20-1g-1

2. Family: Photo

3. Type: Single

4. Size(L*W*H/ Φ *H): Φ :75mm; H:21.08mm

5. Material: PC

6. Efficiency: 85%

7. Operating Temperature(T_{opr}): -40° C to $+120^{\circ}$ C

8. Waterproof: \

9. Standard FWHM: 13°-40°

10. Suitable LES: 9mm

11. Application: Indoor lighting: down light, track light...

12. Technology: Calculus principle, Fresnel technology,

multi-level reflect technology



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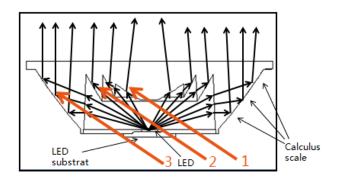
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Technology



Multi-level Reflect Technology-

Design Principle: • Photon Lens designed by one refracting surface and several fully reflecting surfaces, can control the light distribution well by lower lens height







Multi-level Reflect Technology-

Why can make the light distribution well by lower lens height?

- 1 Area 1 is refracting surface, control the light from the middle of the LED, to control the small beam angle;
- 2. Area 2 are fully reflecting surfaces, little far away from the COB, control some long lights to be small beam angle;
- 3. Area 3 are periphery fully reflecting surfaces, control the outermost lights also the best lights, can make smaller beam angle and make a clear edge light spot;
- The multi-level reflect technology separate the lights to be 3 areas, and control every part light very well by different best technology, to make sure get a clear edge light spot even lower lens height!



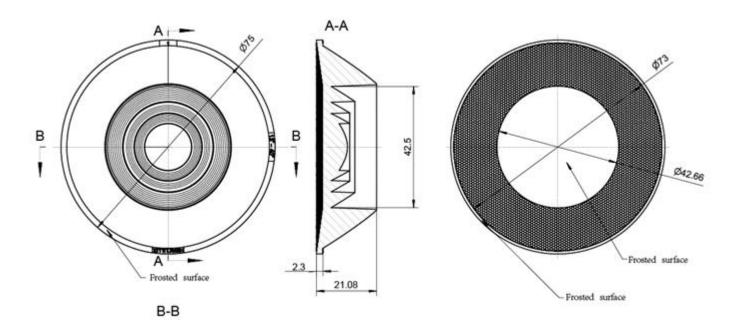
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2Ddrawing



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.
- 4. The thimble can't exist at the undersurface of the locating pillar.

Optical Design			HK-75@21-13_40-D9-20-1g-1		1.01.6920
Structure Design		HK 75@21 (13° -40°) zoom Lens	Pages	Qty	Weight
Assess			2		
Authorized		Material:PC		CDHK	



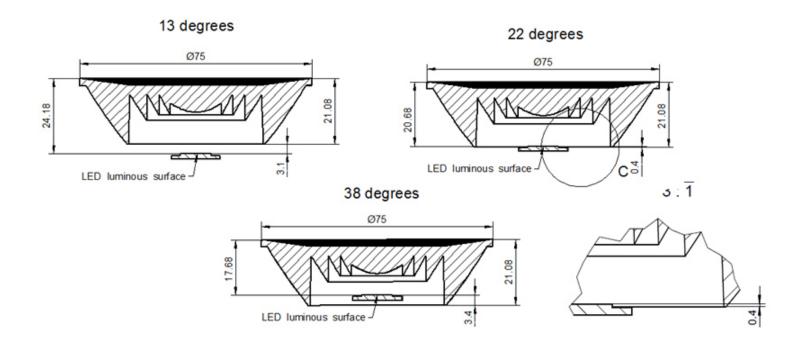
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D75 zoom position





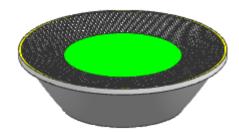
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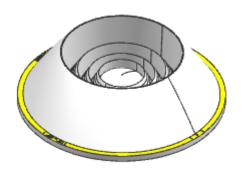
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3D drawing





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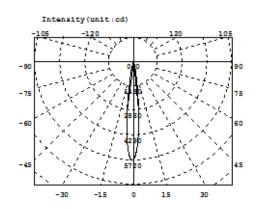
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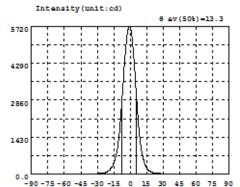
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Test report

Test light source: CREE 1520

Small angle test





Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	3.719	-58.5	8.374	-27.0	38.92	4.5	3756	36.0	18.84	67.5	5.509
-88.5	3.860	-57.0	8.719	-25.5	45.83	6.0	2813	37.5	17.70	69.0	5.220
-87.0	4.026	-55.5	9.081	-24.0	56.16	7.5	1960	39.0	16.39	70.5	4.970
-85.5	4.306	-54.0	9.575	-22.5	72.89	9.0	1315	40.5	15.12	72.0	4.761
-84.0	4.318	-52.5	10.21	-21.0	100.3	10.5	870.9	42.0	14.05	73.5	4.510
-82.5	4.251	-51.0	11.05	-19.5	144.1	12.0	581.8	43.5	13.12	75.0	4.280
-81.0	4.074	-49.5	11.98	-18.0	207.0	13.5	378.1	45.0	12.30	76.5	4.074
-79.5	3.924	-48.0	12.97	-16.5	296.5	15.0	248.8	46.5	11.57	78.0	3.931
-78.0	3.964	-46.5	14.06	-15.0	428.5	16.5	168.6	48.0	10.85	79.5	3.791
-76.5	4.248	-45.0	15.30	-13.5	621.6	18.0	116.9	49.5	10.20	81.0	3.816
-75.0	4.568	-43.5	16.45	-12.0	907.8	19.5	83.76	51.0	9.610	82.5	3.768
-73.5	4.873	-42.0	17.67	-10.5	1348	21.0	63.37	52.5	9.079	84.0	3.643
-72.0	5.182	-40.5	18.95	-9.0	1996	22.5	50.50	54.0	8.650	85.5	3.369
-70.5	5.500	-39.0	20.23	-7.5	2811	24.0	41.86	55.5	8.238	87.0	3.263
-69.0	5.833	-37.5	21.32	-6.0	3739	25.5	35.77	57.0	7.855	88.5	3.158
-67.5	6.165	-36.0	22.46	-4.5	4637	27.0	31.34	58.5	7.484	90.0	2.946
-66.0	6.510	-34.5	23.82	-3.0	5315	28.5	27.93	60.0	7.101		
-64.5	6.869	-33.0	25.49	-1.5	5671	30.0	25.35	61.5	6.750		
-63.0	7.229	-31.5	27.56	0.0	5676	31.5	23.25	63.0	6.392		
-61.5	7.637	-30.0	30.38	1.5	5335	33.0	21.52	64.5	6.092		
-60.0	8.042	-28.5	34.04	3.0	4660	34.5	20.06	66.0	5.800		

Electricity Parameter:

Current I: 0.1000A 3.400W Power: Voltage V: 34.00V PF: 0.000

Optical Parameter (Distance=2.559m):

Equivalent Luminous flux: # eff= 459.81m Efficiency: Eff=135.25lm/W

@(25%): 18.8deg@(50%): 13.3deg@(75%): 8.7deg @(50%): 13.3deg Diffuse angle: @(25%): 19.0deg@(50%): 13.3deg@(75%): 8.7deg @(50%): 13.3deg Diffuse angle: Imax=5711cd (C=0.0deg,G=-0.5deg) C0-180Plane Imax= 5711cd(G=-0.5deg)

C0-180Plane IO= 5676cd



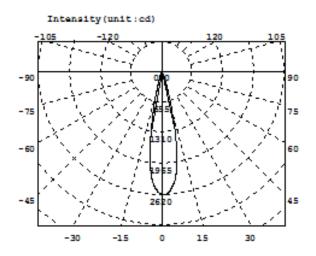
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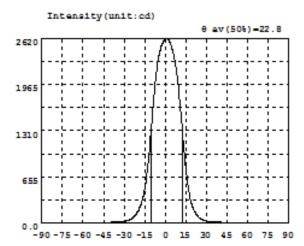
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Middle angle test





Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	0.9172	-58.5	6.321	-27.0	40.79	4.5	2498	36.0	19.06	67.5	4.653
-88.5	1.019	-57.0	6.615	-25.5	52.25	6.0	2396	37.5	17.04	69.0	4.336
-87.0	1.070	-55.5	6.936	-24.0	69.88	7.5	2246	39.0	15.35	70.5	4.065
-85.5	1.146	-54.0	7.271	-22.5	96.49	9.0	2033	40.5	13.86	72.0	3.789
-84.0	1.302	-52.5	7.667	-21.0	134.4	10.5	1750	42.0	12.68	73.5	3.470
-82.5	1.582	-51.0	8.116	-19.5	185.3	12.0	1419	43.5	11.76	75.0	3.181
-81.0	1.825	-49.5	8.650	-18.0	251.9	13.5	1081	45.0	11.02	76.5	2.940
-79.5	2.109	-48.0	9.250	-16.5	345.7	15.0	784.6	46.5	10.30	78.0	2.697
-78.0	2.438	-46.5	9.916	-15.0	481.5	16.5	551.3	48.0	9.726	79.5	2.377
-76.5	2.695	-45.0	10.56	-13.5	677.2	18.0	374.6	49.5	9.118	81.0	2.089
-75.0	3.012	-43.5	11.21	-12.0	939.6	19.5	258.8	51.0	8.570	82.5	1.781
-73.5	3.308	-42.0	11.91	-10.5	1265	21.0	183.2	52.5	8.100	84.0	1.528
-72.0	3.577	-40.5	12.70	-9.0	1615	22.5	129.8	54.0	7.636	85.5	1.330
-70.5	3.931	-39.0	13.79	-7.5	1940	24.0	92.55	55.5	7.215	87.0	1.088
-69.0	4.177	-37.5	15.22	-6.0	2197	25.5	66.73	57.0	6.825	88.5	0.9862
-67.5	4.506	-36.0	16.87	-4.5	2378	27.0	49.90	58.5	6.494	90.0	0.9069
-66.0	4.776	-34.5	18.85	-3.0	2492	28.5	39.34	60.0	6.158		
-64.5	5.083	-33.0	21.26	-1.5	2562	30.0	32.53	61.5	5.849		
-63.0	5.400	-31.5	24.30	0.0	2604	31.5	27.77	63.0	5.565		
-61.5	5.708	-30.0	28.14	1.5	2609	33.0	24.25	64.5	5.261		
-60.0	5.993	-28.5	33.34	3.0	2574	34.5	21.44	66.0	4.939		

Electricity Parameter:

Current I: 0.1000A Power: 3.410W Voltage V: 34.09V PF: 0.000

Optical Parameter (Distance=2.559m):

CO-180Plane IO= 2604cd



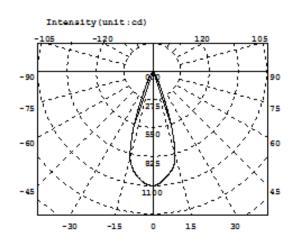
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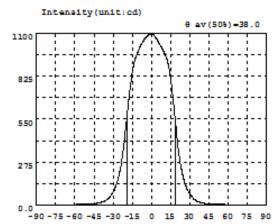
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Big angle test





Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	1.159	-58.5	5.797	-27.0	145.6	4.5	1056	36.0	26.19	67.5	3.990
-88.5	1.210	-57.0	6.148	-25.5	189.6	6.0	1035	37.5	21.08	69.0	3.725
-87.0	1.235	-55.5	6.521	-24.0	247.9	7.5	1013	39.0	17.54	70.5	3.464
-85.5	1.315	-54.0	6.936	-22.5	325.6	9.0	990.2	40.5	15.02	72.0	3.255
-84.0	1.594	-52.5	7.490	-21.0	425.4	10.5	965.3	42.0	13.25	73.5	3.022
-82.5	1.811	-51.0	8.118	-19.5	541.3	12.0	935.4	43.5	11.93	75.0	2.826
-81.0	2.068	-49.5	8.813	-18.0	657.2	13.5	889.1	45.0	10.77	76.5	2.609
-79.5	2.334	-48.0	9.646	-16.5	759.8	15.0	810.4	46.5	9.773	78.0	2.370
-78.0	2.526	-46.5	10.83	-15.0	847.2	16.5	714.0	48.0	8.897	79.5	2.115
-76.5	2.715	-45.0	12.00	-13.5	907.7	18.0	599.3	49.5	8.179	81.0	1.859
-75.0	2.884	-43.5	13.31	-12.0	948.9	19.5	478.6	51.0	7.550	82.5	1.626
-73.5	3.076	-42.0	14.90	-10.5	980.9	21.0	362.7	52.5	6.999	84.0	1.353
-72.0	3.302	-40.5	17.30	-9.0	1008	22.5	276.9	54.0	6.573	85.5	1.224
-70.5	3.537	-39.0	20.69	-7.5	1031	24.0	212.9	55.5	6.216	87.0	1.198
-69.0	3.794	-37.5	25.37	-6.0	1052	25.5	163.4	57.0	5.899	88.5	1.121
-67.5	4.085	-36.0	31.80	-4.5	1070	27.0	125.9	58.5	5.605	90.0	1.008
-66.0	4.329	-34.5	40.46	-3.0	1083	28.5	97.27	60.0	5.324		
-64.5	4.610	-33.0	51.84	-1.5	1091	30.0	74.60	61.5	5.030		
-63.0	4.903	-31.5	66.76	0.0	1093	31.5	56.71	63.0	4.749		
-61.5	5.186	-30.0	86.13	1.5	1087	33.0	43.29	64.5	4.491		
-60.0	5.494	-28.5	111.7	3.0	1074	34.5	33.38	66.0	4.223		

Electricity Parameter:

Current I: 0.1000A Power: 3.400W Voltage V: 34.00V PF: 0.000

Optical Parameter (Distance=2.559m):

C0-180Plane IO= 1093cd



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Quality detection

Sample test report

	1			ı					
		Standard	Upper lin	it Lower limit	Test result 1	Test result 2	Test result 3	Test result 4	Judge
	OD	75	75.20	74.80	74.96	74.97	75	75	OK
1.Size	Height	21.08	21.18	20.78	20.83	20.82	20.86	20.85	OK
	BH	2.3	2.40	2.30	2.40	2.37	2.40	2.38	OK
				Cutting	the spure object	to no effect for the	ne quality		
	Suitable LED						CREE 1520		
	LED	App	pearance	standard	Test result 1	Test result 2	Test result 3	Test result 4	Judge
		angle		13±2°	13.1°	13.2°	13.4°	13.3°	OK
2. op	Small angle	K value		>9.9	13.2	12.5	12.5	12.4	OK
tical i		transmitta	ince	>85%	87.8%	87.7%	87.1%	88.3%	OK
ndicat		angle		22±2°	22.8°	22.8°	22.6°	22.8°	OK
rix	Middle angle	K value	е	>4.7	5.6	5.7	5.8	5.5	OK
		transmitta	ince	>88%	90.3%	90.7%	91.1%	89%	OK
	Б.	angle		38±2°	38.2°	38°	38.6°	38.4°	OK
	Big	K value	е	>2	2.3	2.4	2.3	2.3	OK
	angle	transmitta	ince	>85%	91.6%	88.4%	92.3%	91.5%	OK
	facula				See sample sign	ed sealed sample	es		
3. Арре	earance quality	Find the attached <the appearanc="" e="" inspection="" standard=""></the>		No burrs No stains	ОК				
4.	Material		PC		Cold	our	transpa	arent	ОК
Compre	ehensive judg ment				(OK			

Notes:

Tool Number : V-vernier 2D-quadratic element H-height gauge M-measuring microscope

P-Knitting pin T-thickness gauge R-radius gauge E-eye survey



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Announcement:

- 1. Pls wear clean gloves when assembling, to prevent the surface of the lens be soiled.
- 2. Try to avoid touching the total-reflection surface.
- 3. Once the surface be soiled, pls use soft cotton to wipe with litmusless reagent, not industrial solvent.

Packing

	She	enzhen He	rculux Optoel	ectronics Techn	ology C	o., L	ΓD
Part mo	odel	HK-75@21-	13_40-D9-20-1g-1	Part name	HK 75@21	(13° -4	10°) zoom Lens
Mater	al		PC	Customer			
Packiı diagra	_	© □ Single	Vacuum pac	kage Box	x package		
Packii	20	8	A/ Box	4	Box/Floor	13	Floor/Carton
Fackii	ig	416	A/ Carton				
	NO.	Part No	Part name	Size	Dosag	ge	Remarks
	1	2.07.0019	Blister box	23cm*21cm	52		
	2	2.08.0001	PE film	30cm*30cm	52		
Packing	3	2.06.0005	Reel label paper	62cm*42cm	1		
Material	4	2.06.0005	Box label paper	62cm*70cm	1		
	5	2.06.0003	big plate	36cm*46.8cm	14		
	6	2.06.0001	big carton	36cm*46.8cm*42.8cm	1		
	7						
Remark			Retail packaging is	s not restricted by this sp	ecification		



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Appearance inspection standards (Indoor lighting lens)

Test items Judging standard Defect level MI MA CR Point defect Do not exceed the limit of the limit sample of s ign sample. Point defect Raw edge Not allowed to affect the size and assembly. Scratch Scratchs can not exceed the limit of limit sam ple standard version; Not allowed to scratch. Fingerpint Pingerpints are not allowed on all products. Product deformation shall not affect product size e, assembly and optical performance. Products may not appear bad ejection, including no convex top, thimble printing should be less than the product surface shall not be higher than the product surface and no more than 0.3; thimble surface treatment should be consistent with the product trace of the exposed surface assembly does not allow a strain, the structural surface does not allow significant visual strain. The exposed surface of the assembled product shall not be filled insufficiently filled structure surface of the exposed surface the sample sign. When the entire surface of the product shall be in accordance with the standard of the sample sign. When the entire surface of the product shall not sign ificantly affect the appearance; (Local shrink, the optical properties and dimensions must me et the requirements, and the visual will not sign ificantly affect the appearance; (Local shrink refer r to point defects) Flow marks, W elding line Product days not allow the presence of flow m arks and welding lines unless the structure can not be avoided; special circumstances need to		ance inspection standar				
Point defect ign sample. Raw edge Not allowed to affect the size and assembly. Scratch Scratch Scratches can not exceed the limit of limit sam ple standard version; Not allowed to scratch. Fingerprint Deformation Peroduct deformation shall not affect product size, assembly and optical performance. Product sample printing should be less than the product ct surface, non-assembled surface thimble height t should not exceed the product size tolerances; thimble printing should be less than the product t surface and no more than 0.3; thimble surface for the exposed surface assembly does not allow a strain, the structural surface does not allow significant visual strain. The exposed surface of the assembled product shall not be filled insufficiently, the insufficiently filled structure surface shall not affect the assembly, and the disputed product size tolerances; thimble printing should be less than the product t side. Top strain: optical surface and the appearance of the exposed surface assembly does not allow a strain, the structural surface does not allow significant visual strain. The exposed surface of the assembled product shall not be filled insufficiently, the insufficiently filled structure surface shall not affect the assembly, and the disputed product shall not affect the assembled product shall not be filled insufficiently, the insufficiently filled structure surface shall not affect the assembled product shall not be filled insufficiently and the disputed product shall not affect the assembled surface and the visual will not sign ificantly affect the appearance; Local shrink refer to point defects Flow marks, W eding line Product does not allow the presence of flow m arks and welding lines unless the structure can and assembled.	Test items	Judging standard	De	fect lev	/el	
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		not be avoided; special circumstances need to				



Address: shenzhen nanshan district nanshan cloud valley innovation industrial park comprehensive service building, 501-505

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park

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	sign a temporary sample version.			
Bubble	No bubbles are allowed.		√	
Foreign matte	Visual is not obvious or black spots and foreign body D \leqslant 0.3mm is allowed to exist no more than 2;	√		
Damaged	There shall be no damage to the appearance of the product after it has been assembled and assembled, and the specific product shall be in accordance with the standard of the sample sign.			√
Cold glue	Optical surface can not have cold glue, non-optical surface should be kept cold visual is not obvious.	√		
Poor incision	1: Do not affect the product size; 2: Do not go deep into the optical surface; 3: Cut should be smooth.			√
Scrub	Scrub surface should be uniform, off the scrub phenomenon should not be obvious.		√	
Air stripe	Air stripe should be not visually obvious, specifi c products in accordance with the standard sam ple size.		√	



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Appearance inspection standards (Outdoor lighting lens)

—		Defect	level		Sampling standards According to GB
Test items	Judging standard	MI	MA	CR	T2828.1 count sampling inspection
Point defect	Do not exceed the limit of the limit sample of sign		√		program the first part: Batch-by-lot sampling plan was retrieved
	sample.				by acceptance quality limit (AQL); AQL =
Raw edge	Not allowed to affect the size and assembly.		√		0.4. The judgment principle is: AQ
Scratch	Allow L ≤ 10mm shallow scratches allowed to exist		√		rejection number × coefficient, CR clas
	no more than 2, deep scratches are not allowed.		,		coefficient 0, MA class coefficient 1, N
Fingerprint	Fingerprints are not allowed on all products.		√		class coefficient 1.5;
	Product deformation shall not affect product size,				
Deformation	assembly and optical performance. Must follow the			√	Sight distance and working hours: Sigh
	drawings.				distance should be 30-35cm, each sid
Insufficient	Insufficient filling shall not affect the appearance of		√		of the inspection time does not exceed
filling	the assembly and the exposed surfaces.		•		12s, the visual angle of 45-135 degrees
	When the entire surface of the product shrinks, the				
Shrink	optical properties and dimensions must meet the		,		Light: 2x40w cool white fluorescer
Shillik	requirements, and the visual will not significantly		√		lamp, chip should be from the len
	affect the appearance.				surface 500-550mm, in order to mak
	1: Product does not allow the presence of flow				the bad appearance can be correct
	marks and welding lines unless the structure can not				found, the illumination should not be les
Elemente de la contraction de	be avoided; special circumstances need to sign a				than 500Lux;
Flow marks 、	temporary sample version. 2: The remaining flow		√		
Welding line	marks shall not appear in the optical surface, a				Visual inspection staff should be 1.
	single flow marks $L \leq 10$ mm not allowed more				(including corrected visual acuity) above
	than 2				no color blindness, color weakness.
B 111	No bubbles are allowed in the optical part, and 2		,		
Bubble	non-optical parts allow 2 bubbles with D≤0.5mm.		√		
	Non-optical surface is not obvious or D≤0.5mm				
Foreign matter、	dark spots and foreign bodies allowed to exist no	,			
Dark spots	more than 3; optical surface allows $D \le 0.3$ mm	√			
	foreign matter and black spots no more than 2.				
	Damage shall not affect product assembly, water			,	
Damaged	resistance and exposed appearance.			√	
0.11.1	Do not exceed the limit of the limit sample of sign	,			
Cold glue	sample.	√			
Scrub	Scrub surface should be uniform, off the scrub		,		
abnormalities	phenomenon should not be obvious.		√		
	Products may not appear bad ejection, including				
Poor ejection	no convex top, thimble printed on the assembly		√		
-	surface shall not be higher than the product surface,				



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	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.		
	Air stripe should be not visually obvious, specific		
Air stripe	products in accordance with the standard sample	√	
	size.		



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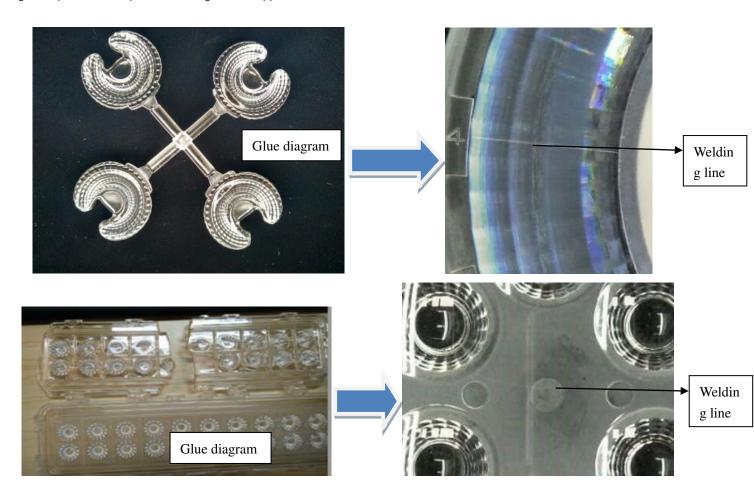
comprehensive service building, 501-505

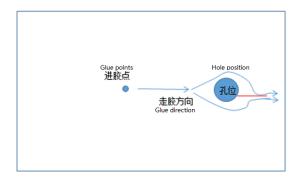
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Description of welding line

The colloid will form weld lines when passing through holes, columns, etc., or where the structure is thin. In the injection molding process using multi-point into the plastic, welding line will appear because of the combination of sol, as shown below:





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.