

Chengdu HercuLux Photoelectric Technology Co.,Ltd **Product Approval**

Approval number:

Customer:

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd

PN	Code	Product
HK-GY-50@36-24-D12-2#-1g-1	1. 08. 12765	HK V 50@36-24 Degree reflective cup
HK-GY-50@36-36-D12-2#-1g-1	1. 08. 13029	HK V 50@36-36 Degree reflective cup
HK-GY-50@36-50-D12-2#-1g-1	1. 08. 33481	HK V 50@36-50 Degree reflective cup



	Supplier	confirmatio	n		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, lot industrial park 2 road HercuLux Photoelectric Park

Phone: 028-85887727 (801) 028-85887990 (801) Fax: 028-85887730 http://www.herculux.com/

Sales Dept: Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building, 501-505

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

*Approval In duplicate, for both supplier and customer.

Disclaimer



Please use this product within the permitted range and environment according to the structure and material of the product. If the usage exceeds the recommended value, please test and verify by yourself. If the product is damaged due to out-of-range use, our company will not be responsible for the warranty.

Product material:

Customized products: The specifications and models of materials used are subject to the agreement between the two parties.

Conventional products: As a product that we continuously research and improve, under the premise of ensuring the quality and availability of the product, our company reserves the right to change the material. If the material specification and model change, without prior notice.

product data:

The measurement data and dimensional tolerances of the 2D drawings in the product data sheet of this acknowledgement are for reference only, and the final size shall prevail in kind.

The measurement data presented in this acknowledgment is a performance test of the product based on our company's internal test conditions and quality requirements, and the reported data is a typical value of the average results of multiple measurements. Therefore, in some cases, the actual product may deviate from the data provided. We reserve the right to notify you in advance of this data.

Product changes and improvements:

Changes and improvements of customized products are subject to the agreement between the two parties in the contract or technical documents.

As the conventional products that we continue to research and improve, our company reserves the right to make technical changes to its products, and reserves the right to make changes to data resulting from improvements without prior notice.

Operation cautions:

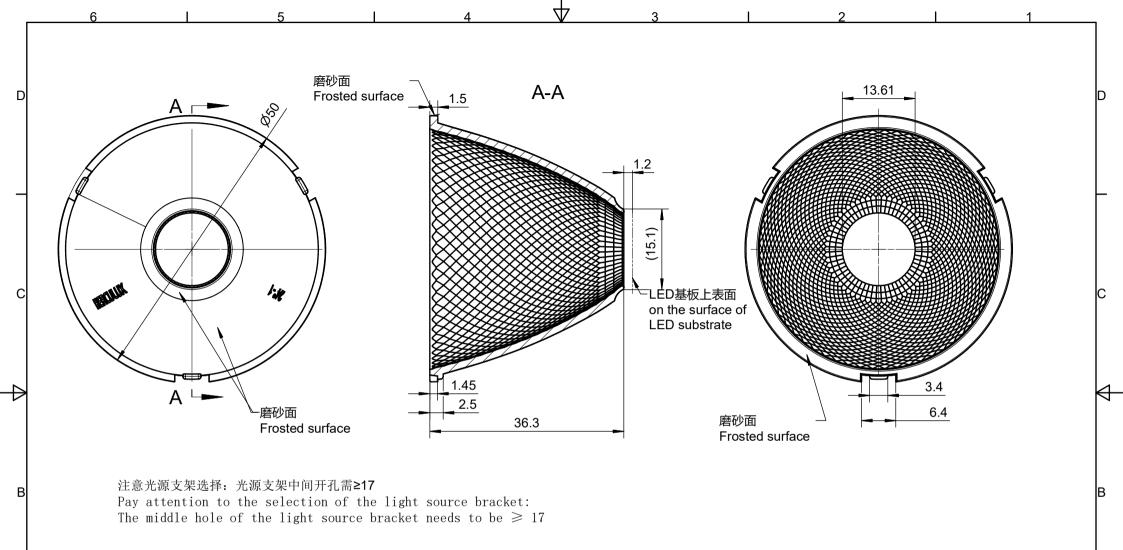
- 1. Please wear clean gloves during product assembly to prevent product surface contamination.
- 2. Try to avoid touching the optical surface of the lens when taking the lens.
- 3. When the surface of the product is polluted, please wipe it gently with a soft cotton cloth dipped in analytically pure neutral solvent. It is forbidden to use industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA monomerm, etc.) wipe.
- 4. The lens made of PC should not be exposed to direct sunlight in the storage and use environment. If the lens turns yellow or cracks due to long-term sunlight exposure, our company will not be responsible for the warranty.



HERCULUX Basic product information

TEL: 0755-2937 1541 FAX: 0755-2907 5140 http://www.herculux.com/ Date updated: 2023/8/1

Product Picture:	
Size(L*W*H/Φ*H):	Φ: 50mm*H: 36.3mm
Material:	PC aluminum plating
Effiency:	\
Temperature(Topr):	Material extreme temperature resistance: -40°C to +120°C long-term use temperature: -40°C to +100°C
FWHM:	24°、36°、50°
Matched LES:	D12
Recommended MAX power:	0%



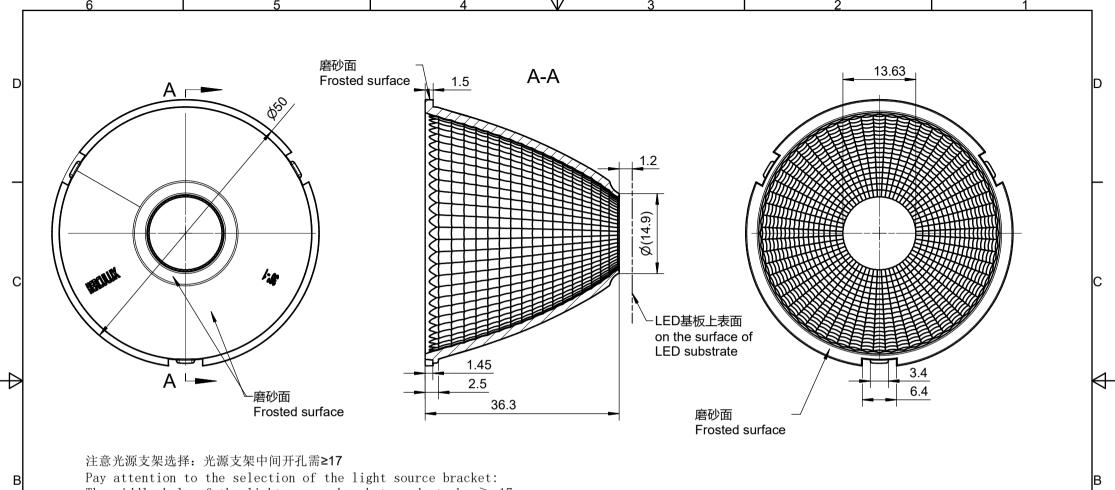
技术要求:

- 1、未注圆角及拔模斜度按3D图。
- 2、未注尺寸公差按右表。
- 3、表面无飞边,缩水,气泡等缺陷。
- *4、灯具采用胶圈防水时:要求散热器与胶圈的接触面的粗糙度: Ra<3.2μm

Technical remark:

- 1. Fillet and inclination not indicated according to 3D drawing.
- 2. Dimensional tolerances not indicated are shown in the right list.
- 3, The surface has no flash, shrinkage, bubbles and other defects.
- *4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact surface between the radiator and the rubber ring is required: Ra<3.2µm

				11. N. Z. 15.							1
				出光角度				透过率			ı
				Beam ang	le rang	e		Transmittanc	ė		ı
				最小K	值			点胶类型			Н
				Min K v	va1ue			Gel type			ı
				模具等	级			备 注			ı
				Mold 1e				Remark			ı
											1
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1					3						ı
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序号	更改标记	更改内容	更改日期	签名	序号	更改标记		更改内容	更改日期	签 名	ı
Item	Change mark	Change content	Change date	Signatur	e Item	Change mar	k Ch	ange content	Change date	Signature	١,
Optic	学设计 al design		Title: HK 光影	50@36=	24度反	光杯		ng No. -GY-50@36-	-24-D12-2#		P
	勾设计 tural design		1	50@36-2			Part	No.			ı
审			re	eflectiv	re cup			1.08.	12765		
审			材料 PC	C 镀铝	um nl	ating		C	DHK		
	2		T		~~ ·	8			1		•



The middle hole of the light source bracket needs to be ≥ 17

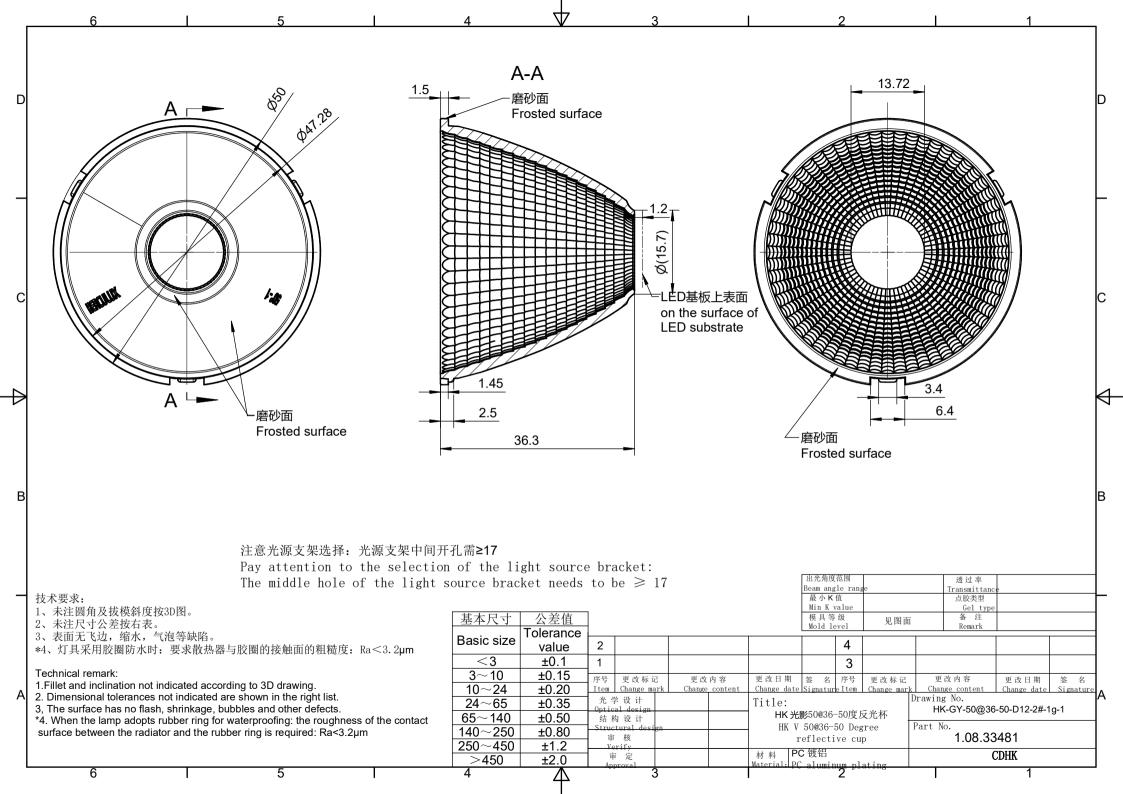
技术要求:

- 1、未注圆角及拔模斜度按3D图。
- 2、未注尺寸公差按右表。
- 3、表面无飞边,缩水,气泡等缺陷。
- *4、灯具采用胶圈防水时:要求散热器与胶圈的接触面的粗糙度: Ra<3.2μm

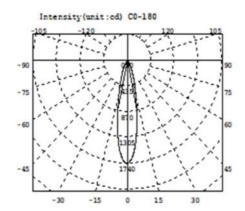
Technical remark:

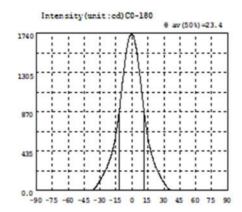
- 1. Fillet and inclination not indicated according to 3D drawing.
- A 2. Dimensional tolerances not indicated are shown in the right list.
 - 3, The surface has no flash, shrinkage, bubbles and other defects.
 - *4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact surface between the radiator and the rubber ring is required: Ra<3.2µm

	 表]					出光角度	范围	1		透过率	I	
基本尺寸范		1					Beam ang	le ran	e		Transmittanc	e	
5	Tolerance						最小K Min K、				点胶类型 Gel type		
Basic size	value						模具等 Mold le		见图面		备 注 Remark		
<3	±0.1	2						4					
3∼10	±0.15	1						3					
10~24	±0.20	序号	更改标记	更改厚	力 容	更改日期	签 名	序号	更改标记	Ī	F 改 内 容	更改日期	第 名
24~65	±0.35	Item	Change mark	2- 21	content	Change date			Change mark		ange content	Change da	
65~140	±0.50	Optic	学设计 al design			Title: HK光馨	%50@36 -:	36度反			ng No. K-GY-50@36-	36-D12-2#	-1g-1
140~250	±0.80		构设计 tural design			1	50 @ 36- 3			Part	No.		
250~450	±1.2	审 Ve					eflectiv	re cup			1.08.1	13029	
>450	±2.0		erify 定 proval			材料 PC	C 镀铝	um nl	ating		(DHK	
4	$\overline{}$		3			l	- 	2	u + 1 11 8			1	









Intensity data: (deg , cd) C0-180

λ	I	λ	1	λ	1	λ	1	λ	1	λ	I
-90.0	0.2712	-58.5	0.4293	-27.0	177.2	4.5	1538	36.0	5.975	67.5	0.3657
-88.5	0.2828	-57.0	0.4331	-25.5	208.1	6.0	1413	37.5	1.269	69.0	0.3570
-87.0	0.3056	-55.5	0.4558	-24.0	244.8	7.5	1268	39.0	0.8860	70.5	0.3503
-85.5	0.3166	-54.0	0.4858	-22.5	287.7	9.0	1113	40.5	0.7878	72.0	0.3411
-84.0	0.3277	-52.5	0.5063	-21.0	336.1	10.5	961.7	42.0	0.7083	73.5	0.3338
-82.5	0.3368	-51.0	0.5514	-19.5	391.9	12.0	820.9	43.5	0.6514	75.0	0.3316
-81.0	0.3497	-49.5	0.5649	-18.0	456.6	13.5	692.9	45.0	0.5908	76.5	0.3390
-79.5	0.3598	-48.0	0.6167	-16.5	533.4	15.0	585.0	46.5	0.5608	78.0	0.3485
-78.0	0.3496	-46.5	0.6641	-15.0	628.0	16.5	497.1	48.0	0.5345	79.5	0.3373
-76.5	0.3390	-45.0	0.7257	-13.5	742.4	18.0	426.3	49.5	0.5084	81.0	0.3422
-75.0	0.3398	-43.5	0.8075	-12.0	874.7	19.5	363.9	51.0	0.4886	82.5	0.3344
-73.5	0.3305	-42.0	0.8922	-10.5	1025	21.0	304.3	52.5	0.4939	84.0	0.3332
-72.0	0.3410	-40.5	1.011	-9.0	1182	22.5	259.7	54.0	0.4795	85.5	0.3164
-70.5	0.3514	-39.0	1.317	-7.5	1337	24.0	221.2	55.5	0.4385	87.0	0.2950
-69.0	0.3627	-37.5	4.455	-6.0	1473	25.5	185.5	57.0	0.4240	88.5	0.2961
-67.5	0.3729	-36.0	15.67	-4.5	1589	27.0	151.7	58.5	0.4041	90.0	0.3153
-66.0	0.3814	-34.5	33.76	-3.0	1673	28.5	119.8	60.0	0.3898		
-64.5	0.3926	-33.0	56.60	-1.5	1719	30.0	90.21	61.5	0.3783		
-63.0	0.3924	-31.5	82.90	0.0	1733	31.5	62.80	63.0	0.3815		
-61.5	0.3761	-30.0	112.0	1.5	1701	33.0	38.66	64.5	0.3703		
-60.0	0.4067	-28.5	144.0	3.0	1638	34.5	19.20	66.0	0.3743		

Electricity Parameter:

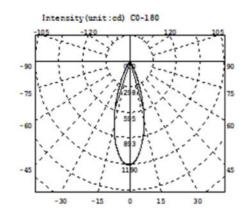
Current I: 0.1000A Power: 3.358W Voltage V: 33.59V PF: 1.000

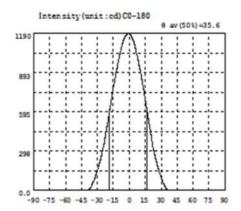
Optical Parameter (Distance=2.410m):

Equivalent Luminous flux: Φ eff= 417.3lm Efficiency: Eff=124.29lm/W

C0-180Plane I0= 1733cd







Intensity data: (deg , cd) C0-180

λ	1	λ	I	λ	I	λ	1	λ	1	λ	1
-90.0	0.5223	-58.5	0.5712	-27.0	239.5	4.5	1119	36.0	6.178	67.5	0.4184
-88.5	0.4960	-57.0	0.5860	-25.5	290.1	6.0	1073	37.5	2.538	69.0	0.4256
-87.0	0.3816	-55.5	0.6220	-24.0	345.2	7.5	1017	39.0	2.031	70.5	0.3999
-85.5	0.3686	-54.0	0.6578	-22.5	410.4	9.0	962.1	40.5	1.852	72.0	0.4307
-84.0	0.3578	-52.5	0.6927	-21.0	481.4	10.5	900.9	42.0	1.673	73.5	0.5954
-82.5	0.5795	-51.0	0.7463	-19.5	554.8	12.0	835.2	43.5	1.520	75.0	1.094
-81.0	1.013	-49.5	0.8103	-18.0	629.6	13.5	763.6	45.0	1.440	76.5	1.448
-79.5	1.354	-48.0	0.8870	-16.5	704.1	15.0	690.9	46.5	1.239	78.0	1.243
-78.0	1.383	-46.5	0.9920	-15.0	775.4	16.5	617.0	48.0	1.123	79.5	0.8364
-76.5	0.8177	-45.0	1.107	-13.5	844.9	18.0	542.2	49.5	1.021	81.0	0.4968
-75.0	0.4685	-43.5	1.267	-12.0	910.4	19.5	467.9	51.0	0.9231	82.5	0.3398
-73.5	0.4310	-42.0	1.461	-10.5	971.2	21.0	392.6	52.5	0.8262	84.0	0.3488
-72.0	0.4181	-40.5	1.732	-9.0	1027	22.5	323.1	54.0	0.7658	85.5	0.3567
-70.5	0.3949	-39.0	3.127	-7.5	1081	24.0	268.3	55.5	0.6752	87.0	0.5165
-69.0	0.4190	-37.5	10.64	-6.0	1124	25.5	217.8	57.0	0.6369	88.5	0.4438
-67.5	0.4218	-36.0	28.03	-4.5	1157	27.0	173.5	58.5	0.5922	90.0	0.3362
-66.0	0.4250	-34.5	52.45	-3.0	1179	28.5	134.7	60.0	0.5797		
-64.5	0.4396	-33.0	81.90	-1.5	1188	30.0	99.64	61.5	0.5320		
-63.0	0.4765	-31.5	115.7	0.0	1188	31.5	68.31	63.0	0.5096		
-61.5	0.5114	-30.0	153.5	1.5	1176	33.0	41.39	64.5	0.4841		
-60.0	0.5350	-28.5	196.1	3.0	1153	34.5	19.84	66.0	0.4836		

Electricity Parameter:

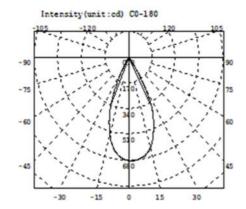
Current I: 0.1000A Power: 3.358W Voltage V: 33.59V PF: 1.000

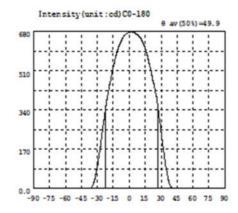
Optical Parameter (Distance=2.559m):

Equivalent Luminous flux: Φ eff= 455.1lm Efficiency: Eff=135.53lm/W

C0-180Plane I0= 1188cd







Intensity data: (deg , cd) C0-180

λ	I	λ	1	λ	1	λ	1	λ	1	λ	1
-90.0	0.6440	-58.5	0.4389	-27.0	187.5	4.5	676.1	36.0	57.23	67.5	0.4406
-88.5	0.6663	-57.0	0.4237	-25.5	237.3	6.0	672.6	37.5	28.17	69.0	0.4564
-87.0	0.6334	-55.5	0.4652	-24.0	289.8	7.5	667.2	39.0	9.935	70.5	0.4679
-85.5	0.6548	-54.0	0.4786	-22.5	339.9	9.0	660.6	40.5	3.348	72.0	0.5225
-84.0	0.4975	-52.5	0.5014	-21.0	383.7	10.5	652.4	42.0	1.447	73.5	0.8374
-82.5	0.4645	-51.0	0.5219	-19.5	422.5	12.0	641.2	43.5	0.9564	75.0	1.594
-81.0	0.4745	-49.5	0.5469	-18.0	458.5	13.5	625.8	45.0	0.7636	76.5	2.572
-79.5	0.5738	-48.0	0.5762	-16.5	493.1	15.0	607.2	46.5	0.7296	78.0	2.939
-78.0	1.123	-46.5	0.6720	-15.0	525.3	16.5	584.9	48.0	0.6692	79.5	2.720
-76.5	1.521	-45.0	0.6440	-13.5	556.2	18.0	559.0	49.5	0.6350	81.0	2.316
-75.0	1.905	-43.5	0.7005	-12.0	583.0	19.5	528.6	51.0	0.6021	82.5	1.896
-73.5	2.141	-42.0	0.7624	-10.5	605.5	21.0	497.6	52.5	0.5795	84.0	1.287
-72.0	1.641	-40.5	0.8586	-9.0	624.5	22.5	466.0	54.0	0.5699	85.5	0.5925
-70.5	0.7313	-39.0	0.9919	-7.5	640.6	24.0	433.2	55.5	0.5619	87.0	0.5498
-69.0	0.4204	-37.5	1.302	-6.0	653.2	25.5	398.2	57.0	0.5447	88.5	0.5625
-67.5	0.4169	-36.0	2.707	-4.5	662.6	27.0	355.0	58.5	0.5197	90.0	0.5751
-66.0	0.4095	-34.5	11.07	-3.0	669.5	28.5	300.4	60.0	0.5027		
-64.5	0.4195	-33.0	30.81	-1.5	674.4	30.0	247.7	61.5	0.4827		
-63.0	0.4278	-31.5	59.68	0.0	677.7	31.5	193.6	63.0	0.4711		
-61.5	0.4374	-30.0	95.79	1.5	679.0	33.0	142.0	64.5	0.4596		
-60.0	0.4485	-28.5	139.7	3.0	678.4	34.5	95.55	66.0	0.4357		

Electricity Parameter:

Current I: 0.1000A Power: 3.598W Voltage V: 36.00V PF: 1.000

Optical Parameter (Distance=2.410m):

Equivalent Luminous flux: Φ eff= 405.8lm Efficiency: Eff=112.80lm/W

C0-180Plane I0= 677.7cd



	diame	Standar d size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Test result5	Test result6			Jud gme nt	Remarks
	er	50			50.05	49.95	49. 92	49.95	49. 95	49. 91	49. 93	49. 96		environment: In 20 °C -25
1.Size	heigh	at 36.3			36. 44	36. 48	36. 46	36. 45	36. 44	36. 48	36. 46	36. 45		°C environment
	thick ess	n 1.5			1. 58	1.67	1. 66	1.63	1. 53	1. 62	1. 59	1. 56		to achieve thermal
				Ga	te shear	can not	affect th	ne appea	arance c	of the lar	np			
				Se	ee attach	ment "A	ppearar	nce Insp	ection S	tandard	s"			
2.Appea	aran 👢	See ittachment Appearanc			No bu	rr	No	burr	No	burr	1	No burr		OK
ce Quali	lty e	Inspection Standards"			No sta	ins	No s	tains	No s	tains	N	o stains		910
3.Materi	ial		PC alum	inum pla	ting		Co	olor		Tra	nsparer	nt		OK
	sting	LE					CF	REE 182	.0					
4.Optic	dissip and to	e paramete pation capa ested to pro	bility of th	e lamp a		ctual co	nditions	of the u		onment,	_		_	
	ang1	e			24. 5	24. 7	23. 6	23. 4	25	24. 7	24. 7	24. 1	_	
	K-				3.96								_	$\overline{}$
	valu ficie				86.0%						85. 0%			$\overline{}$
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compre sive	hen			<u>'</u>				Qual	ified					
indame														
Remark		ner: V.	Length		produc	t size ch	nanges	with te	mperat	ure tal	ole			
Vernier Quadrat Gauge N	Calipe tic H-H M-Tool	r 2D- leight I	changes (mm)	0.7							→ →	Size: 5		า
Microsco Needle				0.5					*		~	-Size: 1	150mn	n
Gauge F				0.3			*		<u> </u>			Size: 2		
Gauge E		al.		0.2			X				*	-Size: 2	250mn	n
2、Amb tempera		n the		0.1		207					→ →	-Size: 3	300mn	n
size of the				0				-	- 1		_			
refer to	the tab			0		10	20)	30		40			
the right	İ									(°	C)			

Precautions:

- 1. 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.
 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,
- 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.



	diam		Standar d size	Upper Size limit	Lower size limit	Test result1				Test result5				Jud gme nt	Remarks
	er		50			50. 08	49. 96	49.93	49. 98	50.08	49.96	49. 93	49. 98		environment: In 20 °C -25
1.Size	heig	ht	36. 3			36. 43	36. 42	36. 48	36.41	36. 43	36. 42	36. 48	36. 41		°C environment
	thic es:		1.5			1. 62	1.58	1.65	1.62	1.55	1. 56	1. 53	1. 52		to achieve thermal
					Gat	e shear	can not	affect th	e appea	arance c	of the lar	np			
			ı		Se	e attachr	ment "A	ppearan	ce Insp	ection S	tandard	s"			
2.Appea	ıran	atta	See chment bearanc	E		No bu	rr	No	burr	No	burr	1	No burr		OK
ce Quali	ity	e Ins	spection ndards"	I		No stai	ns	No s	tains	No s	tains	N	o stains		5
3.Materi	al			PC alum	inum pla	ting		Co	lor		Tra	ınspareı	nt		OK
	esting	j LE						CF	REE 182	.0					
4.Optic	the h	onform to the parameters in the product basic information table. if it is required to be out of range. According to e heat dissipation capability of the lamp and the actual conditions of the use environment, the lens should be fully sted and tested to prevent the lens life. NHM See light distribution curve													
ai iiiuex	ang	-				36. 5	36. 7	35. 6	36. 5	I	I	35. 6	36. 7		
	K-			_			2. 5033				2. 5				$\overline{}$
	valı fici			\equiv		82. 9%								_	$\overline{}$
	— т		the sian:	ature sar	nnle	02. 970	,	04.0%	04.070	04.0%	04.0%	04, 470	04. 070		_
Compre	пеп		uio sigin	ature sur	Пріс				-	r.c. 1					
sive iudame									Qua	Іптеа					
Remarks 1. Tool Vernier of Quadrat Gauge M Microsco Needle Gauge F Gauge E 2. Amb tempera size of th refer to t the right	Num Calipo ic H-I M-Toc ope F T-Thic R-Rac E-Visu oient iture c the pro	er 2[Heigh ol ock dius ual.	ht ht		0.8	product	t size ch	nanges		emperate 30		~ → * - * →	Size:	100mn 150mn 200mn 250mn	n n n

Precautions:

- 1. 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.
 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,
- 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.



	diame	Standa d size	r Upper Size Iimit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Test result5	Test result6	Test result7		Jud gme nt	Remarks	
	er	50			50.02	50	50	49.92	49.96	50.02	49. 95	49. 95		environment: In 20 °C -25	
1.Size	heigh				36. 25	36. 39	36. 23	36. 26	36. 23	36 . 23	36. 32	36. 25		$^{\circ}\!\mathbb{C}$ environment	
	thick ess	1.5			1.41	1.41	1.36	1.33	1.32	1. 36	1.41	1.41		to achieve thermal	
					e shear			- ' '							
	<u> </u>			See	e attachi	ment "A	opearan	ce Insp	ection S	tandard	s" -				
2.Appea	ıran 📗	See attachmen Appearand			No bu	rr	No	burr	No	burr	١	No burr		ОК	
ce Quali	' le	Inspection Standards'			No stai	ns	No s	tains	No s	tains	N	o stains			
3.Materi	al		PC alum	inum plat	ing		Co	lor		Tra	ınspareı	nt		OK	
	sting	LE					CF	REE 182	.0						
4.Optic	the he	e size and rated power of the light-emitting surface (LES) of the COB recommended by this lens should afform to the parameters in the product basic information table. If it is required to be out of range. According to heat dissipation capability of the lamp and the actual conditions of the use environment, the lens should be fully ted and tested to prevent the lens life. See light distribution curve													
al index					49. 9	49. 7	49. 3	49. 6	49. 5	49. 9	48. 5	50. 1			
	angl K-		_		49. 9	49. 1	49. 3	49.0	49. 0	49. 9	40. 0	50. 1	_	$\overline{}$	
	valu ficie		=	_	83. 8%	85. 0%	85. 0%	84. 5%	84. 5%	84. 3%	84. 5%	84. 3%	_	$\overline{}$	
		ee the sig	nature sar	nple	03.0%	,	85.0%	04. 0%	04. 5%	04. 5%	04. 0%	04. 5%		$\overline{}$	
Compre sive	hen	- are eng	india o odi					Qua	lified						
Remarks 1、Tool Vernier (Quadrat Gauge M Microsco Needle Gauge E Gauge E 2、Amb tempera size of th refer to t the right	Numb Calipe tic H-H M-Tool ope P- T-Thic R-Radi E-Visua bient ature or the pro-	r 2D- leight k ius al. n the		0.8	produc	t size ch	nanges		emperate 30		<i>P</i> →	Size:	100mn 150mn 200mn 250mn	n n n	

Precautions:

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Р	N	HK-GY-50@36-24-D12-2	2#-1g-1	Product Name	HK V 50@36-24 Deg	ree refle	ective cup
Product	material		PC a	luminum plating			
Package	diagram		+	→		3	
Product	nacking	45	PCS/BAG	180	BAG/LAYER		
Floduct	packing	4	Layer/Box	720	Piece/Box		
	NO.	Material Code	Item name	Specification	Single box usage	Unit	Remarks
	1	_	Plastic bags		16	BAG	
Packagin g Materials	2	2.06.0005	Box label	6. 2cm*7. 6cm	1	PCS	
	3	2.06.0007	Partition	39*29cm	5	PCS	
	4	2.06.00012	Carton	40*30*26cm	1	PCS	
Remarks		Scattered pa	ckaging is not	subject to this spe	ecification		



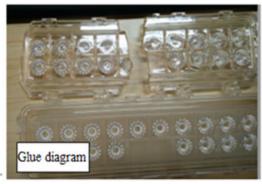
Special notice

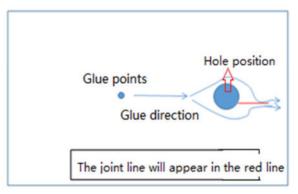
When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. The product which uses multi-point injection welding line will appear because of the combination of sol, as shown below:

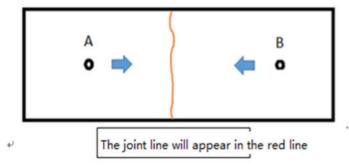
Syntneti











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	Judging standard	Inspection equipment	Defect level		
reschems		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	<u> </u>	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	 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		√	

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;	Visual			
Bad incision	2: Laser cutting products, the optical surface burns shall not occur after the processing is completed. Beading must not affect product installation				√
	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 ≤ 1 mm and no more than 1 area within a 50x50 mm area	Visual		√	