

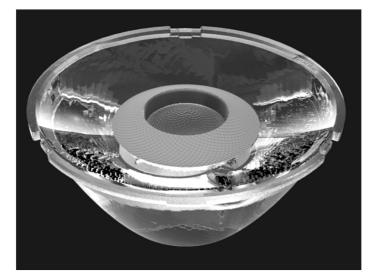
## HERCULUX Chengdu HercuLux Photoelectric 恒坤光电 Technology Co.,Ltd Product Approval

Approval number:

Customer:

### Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd

PN	Code	Product
HK-HG-75@35-15-D12-20-1g-1_PC	1.01.92024_PC	HK Dark 75@35-15° lens
HK-HG-75@35-24-D14-21-1g-1_PC	1.01.92025_PC	HK Dark 75@35-24° lens
HK-HG-75@35-36-D14-21-1g-1_PC	1.01.92068_PC	HK Dark 75@35-36° lens
HK-HG-75@35-50-D14-21-1g-1_PC	1.01.92080_PC	HK Dark 75@35-50° lens



	Supplier	confirmation		Client confi	rmation	
Proposed		DATE	Qualified□		D 4 7 5	
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 ParkPhone:028-85887727 (801)028-85887990 (801)Fax: 028-85887730http://www.herculux.com/Sales Dept:Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building, 501-TEL:0755-2937 1541FAX: 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.

第2页

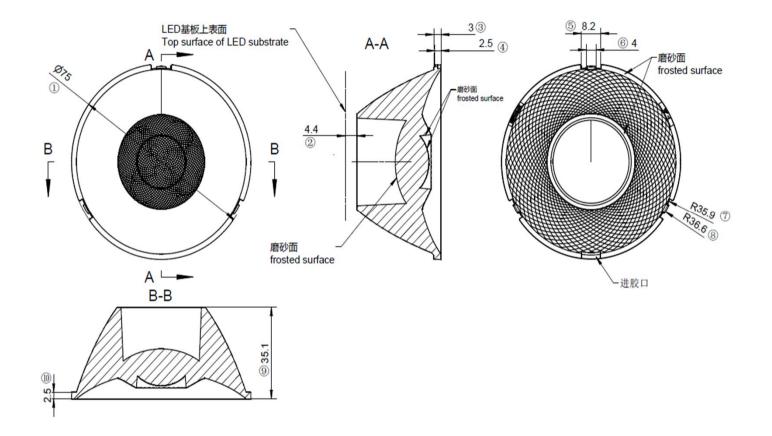


http://www.herculux.com/

Date updated: 2025/1/13







#### 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 MT5.
- 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 contact surface between the radiator and the rubber ring is required: Ra<3.2 $\mu$ m

3~10

±0.15

10~24

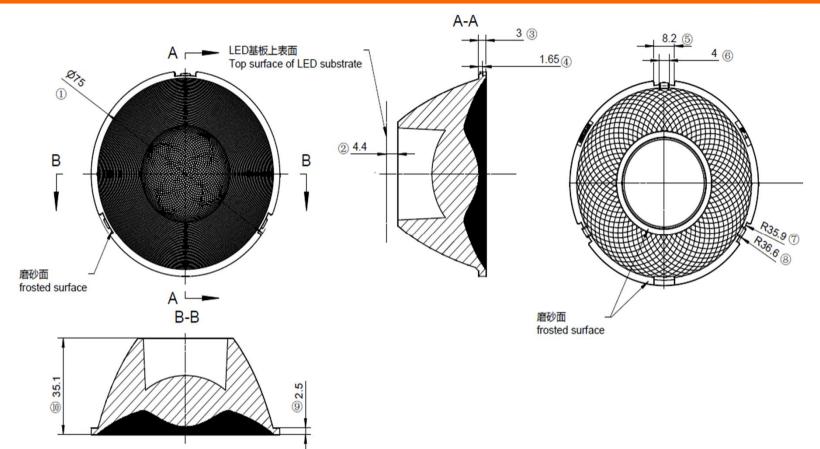
±0.2

24~65

±0.35

		Optical	design						НК-Н	G-75@	35-15-D12-	20-1g-	1_PC
008 MT5.		Structur	e desigr				HK Dark 7	75@35-15º lens		1.	01.92024_P	С	
f the contact		Rev	iew						mber o	f drawi	qty	we	ght
		Valid	ation				Material:	PC		•	CDHK		
65~140	140~	~250	250^	~450	>4	450			-				
±0.50	±0.	.80	±1	L.2	±2	2.0							





#### Technical remark:

MT5

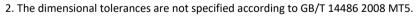
Tolerance

table

Basic size

lerance val

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



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 contact surface between the radiator and the rubber ring is required: Ra<3.2 $\mu$ m

3~10

±0.15

10~24

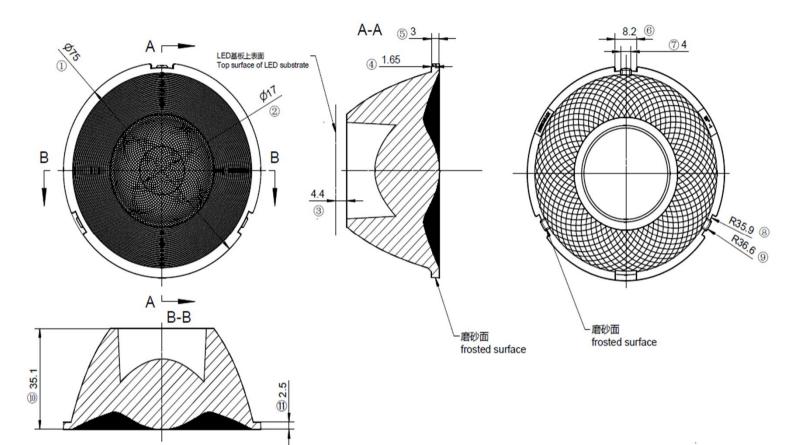
±0.2

24~65

±0.35

		Optical	design						НК-Н	G-75@	35-24-D14-2	21-1g-	1_PC
008 MT5.		Structur	e desigr				HK Dark 7	75@35-24º lens		1.	01.92025_P	С	
f the contact		Rev	iew						mber o	f drawi	qty	wei	ght
		Valid	ation				Material:	РС		•	CDHK		
65~140	140~	~250	250~	~450	>4	150							
±0.50	±0.	.80	±1	2	±2	.0							

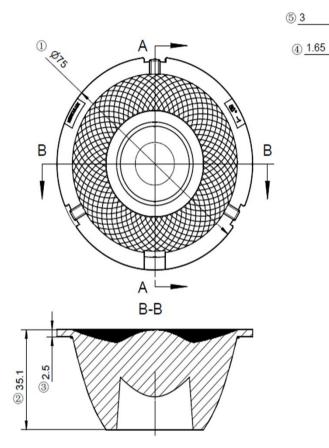




#### Technical remark:

	ap is not indi				0		Optic	al design						НК-НС	G-75@	35-36-D14-2	21-1g-1_PC
	nsional tolera ce has no flas			-		008 MT5.	Structu	ure desigr				HK Dark	75@35-36º lens		1.0	01.92068_P	С
*4. When th	ne lamp adop	ts rubber rin	g for waterp	roofing: the i	oughness of	the contact	Re	eview						mber of	drawi	qty	weight
surface betw	ween the radi	iator and the	rubber ring	is required: F	≀a<3.2µm		Vali	idation				Material:	PC			CDHK	
MT5 Tolerance	Basic size	<3	3~10	10~24	24~65	65~140	140~250	250~	~450	>4	50	-		•			
table	0   + 0   + 0   + 0   + 0   + 0   2    + 0						±0.80	±1.	.2	±2.	.0						

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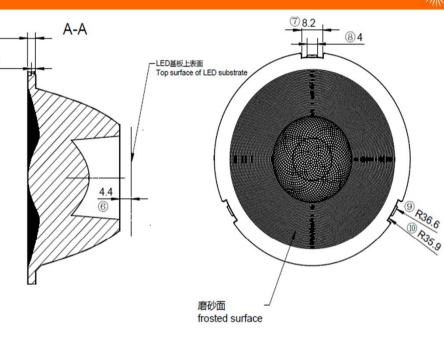


24~65

±0.35

65~140

±0.50



#### **Technical remark:**

MT5

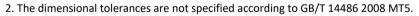
Tolerance

table

Basic size

lerance val

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



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 contact surface between the radiator and the rubber ring is required: Ra<3.2 $\mu$ m

3~10

±0.15

10~24

±0.2

		Optical	design						НК-Н	G-75@	35-50-D14-	21-1g-	1_PC
		Structur	e desigr				HK Dark 7	75@35-50º lens		1	.01.92080_P	С	
t		Rev	view						mber o	f drawi	qty	we	ight
		Valid	ation				Material:	PC		<u> </u>	CDHK		
	140~	~250	250~	~450	>4	450			-				
	±0.	80	±1	2	±2	2.0							

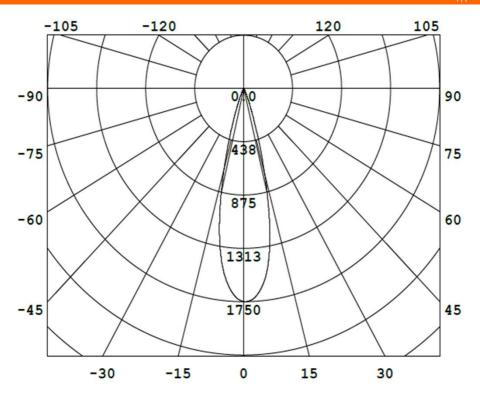
IES——	HK Dark	75@35-15°	lens

D12

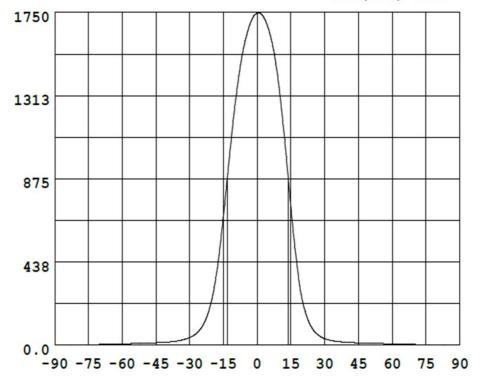




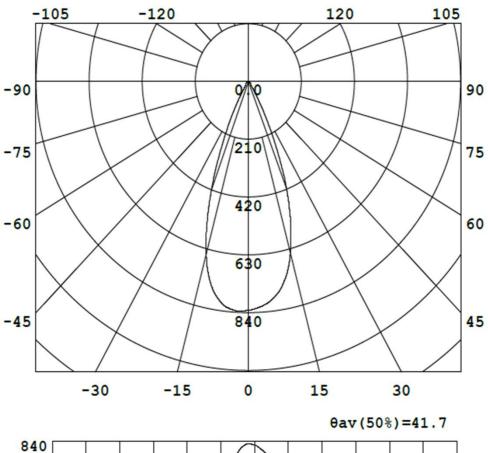


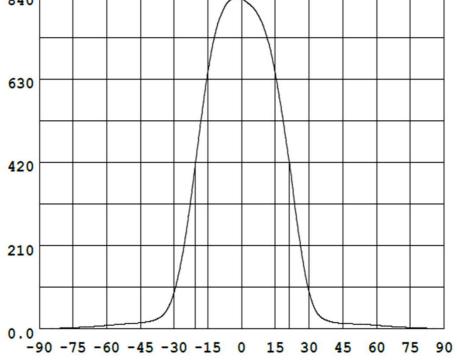


θav(50%)=27.1

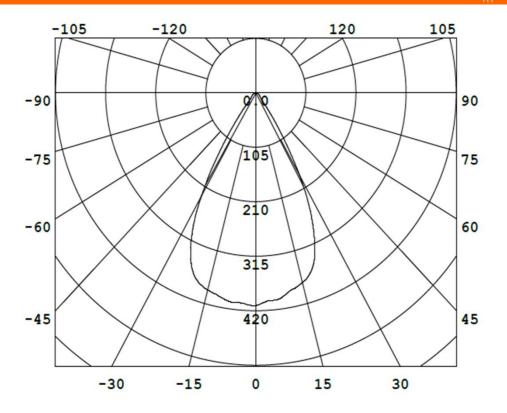




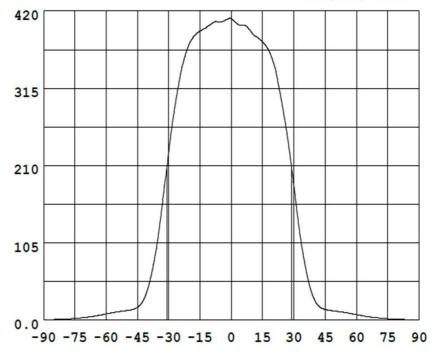








0av(50%)=59.9



#### Sample parameter test HK Dark 75@35-15º lens

HERCULUX <sup>恒坤光电</sup> 

diam hei thic		75			/			$\overline{}$		$\setminus$	
thic	ght 3		$\mathbf{}$		$\backslash$						Test environment : In 20 ℃ -
		35.1	$\backslash$		/					$\backslash$	environment to achieve thermal equilibrium
5		2.5								$\backslash$	after the test.
	·		Gate sh	near ca	an no	t affect the	appearanc	e of the lan	np	-	
			See at	tachm	ient "/	Appearance	e Inspectior	n Standards	3"		
ince	attachr	nent	E		Ν	lo burr	No burr	No burr	No bu	rr	ок
	Inspec	tion			N	o stains	No stains	No stains	No stai	ns	
			PC				Color	Tra	nsparent		ОК
Tes	ting LED						D12	•			
lf yo F	u put a h at th	oneyco e focal	mb on top point of the	of the e Dark	hon lens, serie	eycomb to it is easy to	the lens.	the honeyc	omb due to	o the h	nigh output
(	50%)			_			$\geq$	$\geq$	$\geq$		
	-						$\searrow$	$\searrow$			
		v		_						/	
Ef	ficiency			_		$\backslash$	$\backslash$	$\sim$	$\backslash$		$\overline{}$
F	acula					See the	e signature	sample		J	
ensive	judgmen	t					Qualified				
aliper 2 H-Hei Tool e P-N ge R- Visual visual ent ten	2D- ght eedle T- Radius pperature e product		changes ( (mm) ( ( ( ( ( ( ( ( ( ( ( ( ( ( ()))))))))	0.9       0.8       0.7       0.6       0.5       0.4       0.3       0.2	prod	uct size ch			Si Si Si Si Si Si Si Si Si	ze: 5 ze: 1 ze: 1 ze: 2 ze: 2	00mm 50mm 00mm 50mm
	Tes The shour rar envi are ff yo F K-valu Ef F K-valu Ef F ensive	attachr "Appear Inspec Standa Testing LED The size and should conf range. Accc environment, are designed If you put a ho at the FWHM angle (50%) angle (10%) K-value (CD/LI Efficiency Facula ensive judgmen umber: V- ation of the size and the size and the size and should conf are designed (10%) K-value (CD/LI Efficiency Facula ensive judgmen umber: V- ation of the size and and the size and the size and angle (10%) K-value (CD/LI Efficiency Facula ensive judgmen umber: V- ation of the size and the size and angle (10%) K-value (CD/LI Efficiency Facula ensive judgmen and angle and angle and (10%) K-value (CD/LI angle and (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) K-value (CD/LI (10%) (10	Appearance         Inspection         Standards"         Testing LED         The size and rated         should conform to 1         range. According t         environment, the len         are designed with a         If you put a honeyco         at the focal         FWHM         See         angle         (50%)         angle         (10%)         K-value (CD/LM         Efficiency         Facula         ensive judgment         umber: V-         aliper 2D-         H-Height         Tool         e P-Needle T-         ge R-Radius         /isual.         int temperature         eo f the product	attachment     "Appearance Inspection Standards"     E       Testing LED     PC       Testing LED     PC       The size and rated power of th should conform to the parame range. According to the heat environment, the lens should b are designed with a cross ove       If you put a honeycomb on top at the focal point of the SO%)       angle (50%)       angle       (10%)       K-value (CD/LM       Efficiency       Facula       ensive judgment       umber: V- aliper 2D- H-Height Tool e P-Needle T- ge R-Radius /isual.       of the product	attachment "Appearance Inspection Standards"       E         PC       PC         Testing LED       PC         The size and rated power of the ligh should conform to the parameters in range. According to the heat dissip- environment, the lens should be fully are designed with a cross over desi         If you put a honeycomb on top of the at the focal point of the Dark         FWHM       See light distribution of angle (10%)         K-value (CD/LM         Efficiency         Facula         ensive judgment         umber: V- aliper 2D- H-Height Tool e P-Needle T- ge R-Radius Visual. ont temperature a of the product a table on the	attachment       "Appearance         Inspection       Standards"         PC       PC         Testing LED       PC         The size and rated power of the light-emit should conform to the parameters in the product in the parameters in the	attachment     "Appearance Inspection Standards"     E       PC     Testing LED       The size and rated power of the light-emitting surface should conform to the parameters in the product bas range. According to the heat dissipation capability o environment, the lens should be fully tested and teste are designed with a cross over design for good anti- honeycomb to If you put a honeycomb on top of the lens, it is easy to at the focal point of the Dark series, which m       FWHM     See light distribution curve       angle (50%) angle (10%)     See light distribution curve       Facula     See the changes 0.8 (mm) 0.7 H-Height Tool       ensive judgment     0.9 Changes 0.8 (mm) 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0	attachment       "Appearance         Inspection       E         No stains       No stains         PC       Color         Testing LED       D12         The size and rated power of the light-emitting surface (LES) of should conform to the parameters in the product basic informal range. According to the heat dissipation capability of the lamp environment, the lens should be fully tested and tested to prever are designed with a cross over design for good anti-glare effect honeycomb to the lens.         If you put a honeycomb on top of the lens, it is easy to overheat at the focal point of the Dark series, which may cause the fwHM         See light distribution curve         angle         (50%)         angle         (10%)         K-value (CD/LM         Efficiency         Facula         See the signature         ensive judgment         Qualified         Umber: V-aliper 2D-         H-Height         Tool         e P-Needle T-         ge R-Radius         visual.         not the product         a of the product         a of the product	attachment       "Appearance Inspection Standards"       E       No stains       No stains       No stains         PC       Color       Training         Testing LED       D12         The size and rated power of the light-emitting surface (LES) of the COB re should conform to the parameters in the product basic information table. If range. According to the heat dissipation capability of the lamp and the act environment, the lens should be fully tested and tested to prevent the lens li are designed with a cross over design for good anti-glare effect, so we do honeycomb to the lens.         If you put a honeycomb on top of the lens, it is easy to overheat the honeyc at the focal point of the Dark series, which may cause the risk of m         FWHM       See light distribution curve angle (10%)         K-value (CD/LM       See the signature sample         ensive judgment       Qualified         umber: V- aliper 2D- H-Height Tool e P-Needle T- ge R-Radius /isual.       0.9 (nm)         0.7 e table on the       0.9 (0.1)	attachment       "Appearance Inspection Standards"       E       No stains       No stains       No stains       No stains         Testing LED       PC       Color       Transparent         The size and rated power of the light-emitting surface (LES) of the COB recommend should conform to the parameters in the product basic information table. If it is requir range. According to the heat dissipation capability of the lamp and the actual condition environment, the lens should be fully tested and tested to prevent the lens. If for good and the actual condition noneycomb to the lens.         If you put a honeycomb on top of the lens, it is easy to overheat the honeycomb due to at the focal point of the Dark series, which may cause the risk of melting of the FWHM         See light distribution curve         angle (50%)       See the signature sample         ensive judgment       Qualified         PC product size changes with temperature tab         umber: V- aliper 2D- H-Height Tool       0.9 (mm)         0.7 (Staal.       0.9 (mm)         0.7 (Staal.       0.9 (mm)         0.7 (Staal.       0.9 (mm)         0.7 (Staal.       0.9 (mm)         0.7 (Staal.       0.9 (mm)         0.1 (Staal.       0.9 (mm)         0.1 (Staal.       0.9 (mm)         0.1 (Staal.       0.1 (mm)       0.7 (mm)         0.2 (Staal.       0.1 (mm)       0.1 (mm) <td>attachment       "Appearance "Appearance Standards"       E       No stains       No stains       No stains       No stains         Testing LED       D12         The size and rated power of the light-emitting surface (LES) of the COB recommended by should conform to the parameters in the product basic information table. If it is required to range. According to the heat dissipation capability of the lamp and the actual conditions of environment, the lens should be fully tested and tested to prevent the lens life. The Dark serie are designed with a cross over design for good anti-glare effect, so we do not recommend honeycomb to the lens.         If you put a honeycomb on top of the lens, it is easy to overheat the honeycomb due to the f at the focal point of the Dark series, which may cause the risk of melting of the lens FWHM See light distribution curve         angle (50%)       See the signature sample         Facula       See the signature sample         ensive judgment       Qualified         Umber: V- aliper ZD- H-Height Tool       0.9 (10.9) (10.4) (2.0) (10.4) (2.0) (10.4) (2.0) (2.0) (2.0) (2.0) (2.0) (3.0) (</td>	attachment       "Appearance "Appearance Standards"       E       No stains       No stains       No stains       No stains         Testing LED       D12         The size and rated power of the light-emitting surface (LES) of the COB recommended by should conform to the parameters in the product basic information table. If it is required to range. According to the heat dissipation capability of the lamp and the actual conditions of environment, the lens should be fully tested and tested to prevent the lens life. The Dark serie are designed with a cross over design for good anti-glare effect, so we do not recommend honeycomb to the lens.         If you put a honeycomb on top of the lens, it is easy to overheat the honeycomb due to the f at the focal point of the Dark series, which may cause the risk of melting of the lens FWHM See light distribution curve         angle (50%)       See the signature sample         Facula       See the signature sample         ensive judgment       Qualified         Umber: V- aliper ZD- H-Height Tool       0.9 (10.9) (10.4) (2.0) (10.4) (2.0) (10.4) (2.0) (2.0) (2.0) (2.0) (2.0) (3.0) (

contaminated. 2. 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.).

#### Sample parameter test HK Dark 75@35-24º lens

#### HERCULUX 恒坤光电

			Standard size	Upper Size limit	Low size li		Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	diam	eter	75				74.68	74.96	74.68	74.96	$\setminus$	Test environment ∶In 20 ℃ -
1.Size	hei	ght	35.1				35.14	35.14	35.14	35.14	$\setminus$	11 20 ℃ - 25 ℃ environment to achieve thermal equilibrium
	thic		2.5		$\left  \right\rangle$		2.62	2.7	2.62	2.7	$\setminus$	after the test.
		•		Gate sh	near ca	n no	t affect the	appearanc	e of the lar	np		
				See at	tachme	ent "/	Appearanc	e Inspectio	n Standard	в"		
2.Appeara	ince	atta	See chment bearance	Е		٢	lo burr	No burr	No burr	No bu	ırr	ок
Quality		Ins	pection ndards"			N	o stains	No stains	No stains	No sta	ins	ÖK
3.Material				PC				Color	Tra	insparent		ОК
	Tes	sting L	ED					D14				
4.Optical index	are If yo F	e desig ou put a at FWHM	ned with a honeyco t the focal	a cross ove mb on top	of the lee Dark s	n for hor ens, serie	good anti- eycomb to it is easy t	ed to prever glare effect the lens. o overheat nay cause th	t, so we do the honeyc	not recom omb due te	mend o the h	to add a nigh output
	(	angle			_	_	27.1°	27.5°	27.3°	27.2°		
		angle			-	_	42.9°	43.9°	43.2°	42.9°	/	
	K-val	ue (CE	D/LM		/	_	4.13	4.07	4.12	4.14	/	/
	Ef	ficienc	су 🗌		_		90.40%	90.40%	90.40%	90.40%	/	/
	F	acula	l				See the	e signature	sample			
Comprehe	ensive	judgn	nent					Qualified				
Remarks: 1、Tool N Vernier Ca Quadratic Gauge M- Microscop Thick Gau Gauge E-V 2、Ambie on the size refer to the right	umbe aliper 2 H-Hei Tool e P-N ge R- /isual ent ten e of th	2D- ight eedle Radius nperat e prod	s ure luct	changes ( (mm) ( ( ( ( (	0.9	brod	uct size c	hanges wit		● → s k → s × → s → s	iize: 5 iize: 1 iize: 1 iize: 2 iize: 2	0mm 00mm 50mm 00mm 50mm 00mm
Precaution 1. Please contamina	wear o	clean ç	gloves duri	ing the lens	assen	nbly	process to	prevent the	e lens surfa	ce from be	eing	

contaminated. 2. 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.).

#### ample parameter test HK Dark 75@35-36º lens

#### HERCULUX <sup>恒坤光电</sup>

		s	tandard size	Upper Size limit	Lower size lim		Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	diam	eter	75			/	74.62	74.75	74.62	74.75	$\setminus$	Test environment ∶ In 20 ℃ -
1.Size	hei	ght	35.1				34.96	35.08	34.96	35.08	$\setminus$	environment to achieve thermal equilibrium
	thic		2.5				2.59	2.59	2.59	2.59	$\setminus$	after the test.
				Gate sh	near can	not	affect the	appearanc	e of the lan	np	•	
				See at	tachmen	t "A	ppearanc	e Inspectio	n Standards	s"		
2.Appeara	ince	attac	ee hment arance	Е		No	o burr	No burr	No burr	No bu	rr	ок
Quality		Inspe	ection dards"	L		No	stains	No stains	No stains	No sta	ins	ÖK
3.Material				PC				Color	Tra	insparent		ОК
	Tes	ting LE	D					D14				
4.Optical index	lf yo	ou put a	honeyco he focal	mb on top	h of the len Dark se	none ns, i eries	eycomb to t is easy t	-glare effect the lens. o overheat nay cause th	the honeyc	omb due te	o the h	nigh output
		angle (50%)	/	$\sim$	_		41.7°	41.6°	41.3°	41.1°	/	/
		angle (10%)		$\sim$			60.9°	60.5°	60.3°	60.8°	$\langle$	$\overline{}$
		ue (CD/					1.97	1.97	2.01	2.00	$\langle$	$\overline{}$
	Ef	ficiency					90.30%	90.30%	90.30%	90.30%		$\overline{}$
	F	acula					See the	e signature	sample			
Comprehe	ensive	judgme	ent					Qualified				
Remarks: 1、Tool N Vernier Ca Quadratic Gauge M- Microscop Thick Gau Gauge E- 2、Ambie on the size refer to the right Precaution	umber aliper 2 H-Hei Tool te P-N ige R- Visual ent ten e of the table	2D- ight eedle T Radius nperatur e produ	e	changes ( (mm) ( ( ( ( ( ( ( (	).9	odu	ict size cl	nanges wit		→ s	ize: 5 ize: 1 ize: 1 ize: 2 ize: 2	0mm 00mm 50mm 50mm 00mm
	wear o	clean glo	oves duri	ing the lens	assemb	oly p	process to	prevent the	e lens surfa	ce from be	eing	

2. 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.).

#### Sample parameter test HK Dark 75@35-50º lens

## HERCULUX <sup>恒坤光电</sup>

			Standard size	Upper Size limit	Lov size		Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	diam	eter	75				74.73	74.74	74.76	74.71	$\setminus$	Test environment
1.Size	hei	ght	35.1				34.97	34.98	34.92	34.96	$\setminus$	: In 20 ℃ - 25 ℃ environment to achieve thermal equilibrium
		knes s	2.5				2.56	2.55	2.55	2.58	$\setminus$	after the test.
		•		Gate sh	near ca	an no	t affect the	appearanc	e of the lar	np	•	
				See at	tachm	ent "/	Appearanc	e Inspectio	n Standard	s"		
2.Appeara	ince	atta	See chment earance	Е		١	lo burr	No burr	No burr	No bu	rr	ок
Quality		Insp	pection adards"			N	o stains	No stains	No stains	No stai	ins	
3.Material				PC				Color	Tra	insparent		OK
	Tes	sting LE	D					D14				
4.Optical	are If yo	e desig ou put a at	hed with a honeyco the focal	a cross ove mb on top point of the	r desiq of the e Dark	gn foi hor lens, serie	good anti- eycomb to it is easy t	ed to prever glare effect the lens. o overheat nay cause th	t, so we do the honeyc	not recom omb due to	mend o the h	to add a nigh output
index		WHM	See	light distrib	ution c	urve		1	[			
	(	(50%) angle	_		<u> </u>	_	59.9°	59.4°	59.4°	59.9°		
		(10%)				_	78.0°	78.0°	77.9°	78.3°		
	K-val	ue (CD	/LM		_	_	1.06	1.08	1.09	1.08		
	Ef	fficienc	y	<u> </u>	_	_	90.10%	90.10%	90.10%	90.10%		
	1	Facula					See the	e signature	sample			
Comprehe	ensive	e judgm	ent					Qualified				
Remarks: 1、Tool N Vernier Ca Quadratic Gauge M- Microscop Thick Gau Gauge E- 2、Ambie on the size refer to the right	umbe aliper : H-He Tool le P-N lge R- Visual ent ten e of th	2D- ight Radius nperatu e produ	Г- ire uct	Length 0. changes 0. (mm) 0. 0. 0. 0. 0. 0. 0. 0. 0.	9	rodu		anges with	0 40	Siz	e: 50 e: 10 e: 15 e: 20 e: 25 e: 30	Omm Omm Omm Omm
Precaution 1. Please contamina	wear	clean g	loves duri	ing the lens	asse	mbly	process to	prevent the	e lens surfa	ce from be	eing	

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.).

#### Packaging Information

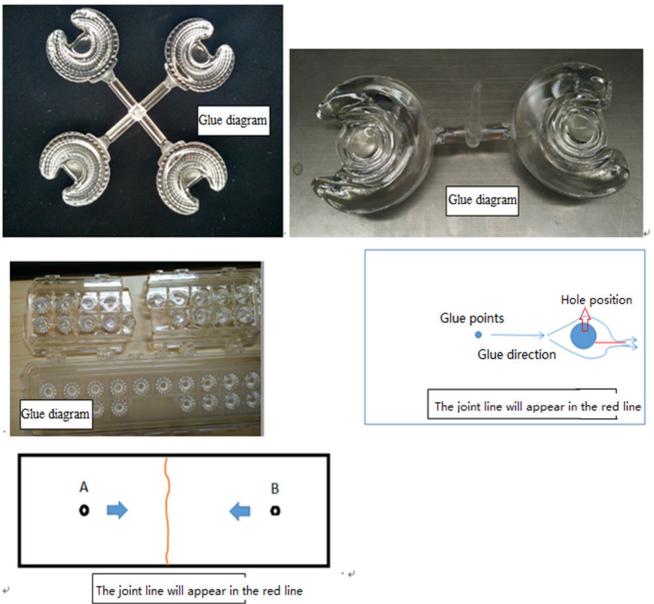


Р	N	HK-HG-75@35-15-D12-20	)-1g-1_PC	Product Name			
Product	material			PC			
Package	diagram	Single Va	cuum packa	ge Bo	ox package		$\geq$
Product	packing	6	A/ Box	4	pcs/Layer		
		4	Layer/Box	96	A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1	2.07.0068	Blister box	23cm*21cm	16	BAG	
Deskerin	2	2.08.0001	PE film	30cm*30cm	16	PCS	
Packagin g Materials	3	2.06.0005	Reel label paper	6.2cm*8cm	16	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	5	PCS	
	6	2.06.0018	big flat carton	48cm*44cm*19c m	1	PCS	
Remarks	т	he loose packing is not subject	to this specific	ation. Customer's r	equirements sha	ll prevai	I

#### 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  $\Pi$  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 descriptior	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	Judging standard	Inspection equipment	Defect level		
reschems		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.		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		$\checkmark$
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	V	
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	V	
Flow marks、Welding line	<ol> <li>Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided;</li> <li>The remaining flow marks shall not appear in the optical surface, a single L ≤ 10mm, no more than two</li> </ol>	Visual	V	

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			$\checkmark$
Cold glue	Optical surface may not have cold glue, non- optical surface cold glue should meet the visual is not obvious.	Visual	$\checkmark$		
	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				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 $D \le 1 \text{ mm}$ and no more than 1 area within a 50x50 mm area	Visual		V	