

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

Approval number :

Customer :

5		
PN	Code	Product
HK-CY-35@07-15-D6-20-1g-1	1.01.02569	HK Filmy 35@07-15° lens
HK-CY-35@07-24-D6-20-1g-1	1.01.12728	HK Filmy 35@07-24° lens
HK-CY-35@07-36-D6-20-1g-1	1.01.12759	HK Filmy 35@07-36° lens
HK-CY-35@07-60-D6-20-1g-1	1.01.12772	HK Filmy 35@07-60° lens

Manufacturer : Chengdu HercuLux Photoelectric Technology Co.,Ltd



	Supplier co	onfirmation		Client confirmation					
Proposed		DATE		Qualified□		0.475			
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.com/Sales Dept: Shenzhen NanshanDistrict 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 withou t 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.

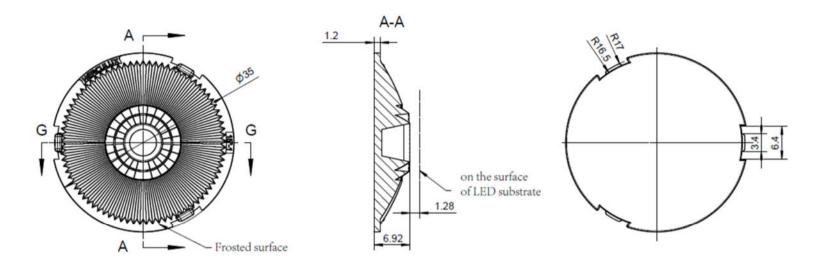


http://www.herculux.com/

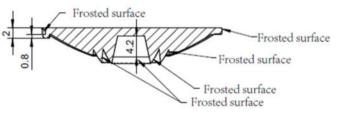
Date updated: 2023/1/4

Product Picture:	
Size(L*W*H/Φ*H):	Φ : 35mm*H : 6.9mm
Material:	PC
Effiency:	X
Temperature(Topr):	Material extreme temperature resistance : -40°C to +120°C long-term use temperature : -40°C to +100°C
FWHM:	15°、24°、36°、60°
Matched LES:	D6
Recommended MAX power:	Not more than15W









10~24

±0.2

24~65

±0.35

Technical remark:

MT5

Tolerance

table

Basic size

lerance val

1. The 3D map is not indicated for rounded corners and draft angle.	
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3, The surface has no flash, shrinkage, bubbles and other defects.

<3

±0.1

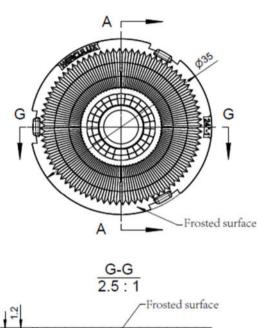
*4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact surface between the radiator and the rubber ring is required: Ra<3.2 μm

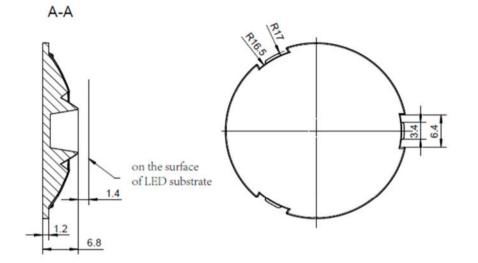
3~10

±0.15

	008 MT5		Optical	design						н	HK-CY-35@07-15-D6-20-1g-1					
.00	8 MT5.		Structur	e desigr				HK Filmy	35@07-15º lens							
f tł	the contact		Rev	view							f drawi	qty	weight	t		
			Validation				Material: PC				CDHK	СДНК				
(55~140	140~	~250	250~	~450	>/	450									
	±0.50 ±0.8		.80	±1	.2	±2	2.0									



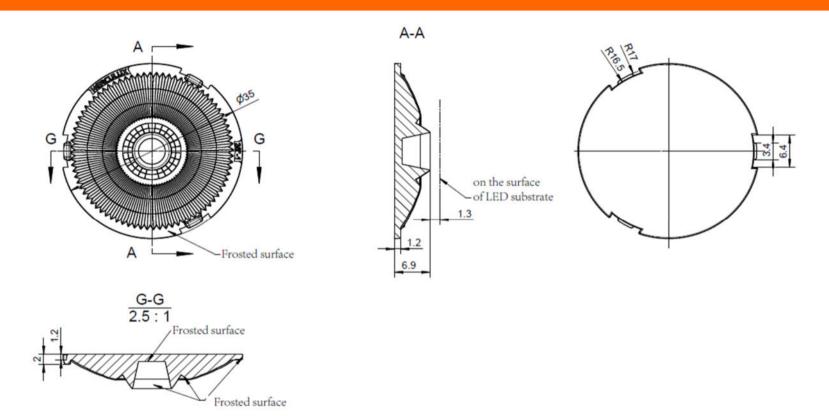




rosted surface

Technical remark:

1. The 3D ma		Optica	l design							HK-CY-35@07-24-D6-20-1g-1							
 The dimensional tolerances are not specified according to GB/T 14486 2008 MT5. The surface has no flash, shrinkage, bubbles and other defects. 								re desigr			HK Filmy	HK Filmy 35@07-24º lens		1.01.12728			
*4. When the lamp adopts rubber ring for waterproofing: the roughness of the contact							Re	eview			mber o	f drawi	qty	weig	ht		
surface betw	veen the rad	iator and the	e rubber ring	is required: F	Ra<3.2μm		Valio	dation			Material:	Material: PC		СДНК			
MT5 Tolerance	Basic size	<3	3~10	10~24	24~65	65~140	140~250	250~45) >/	450							
	lerance val	±0.1	±0.15	±0.2	±0.35	±0.50	±0.80	±1.2	±2	2.0							



Technical remark:

MT5

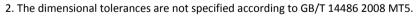
Tolerance

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 μ m

3~10

±0.15

10~24

±0.2

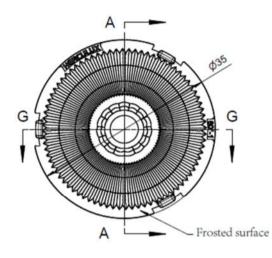
		Optical	design					HK-CY-35@07-36-D6-20-1g-1					
•		Structur	e desigr				HK Filmy :						
act		Rev	view						mber o	f drawi	qty	we	ght
		Valid	ation				Material:	PC			CDHK		
40	140~	~250	250~	~450	>	450			-				
)	±0.80 ±1.2 ±2.0												

65~14

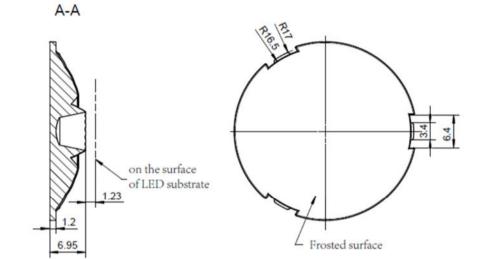
±0.50

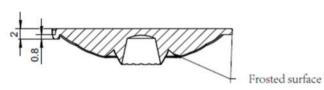
24~65

±0.35









Technical remark:

MT5

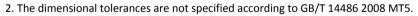
Tolerance

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 μ m

3~10

±0.15

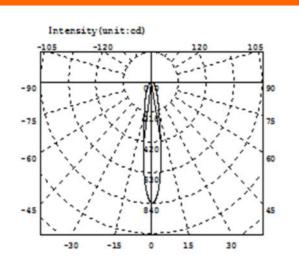
10~24

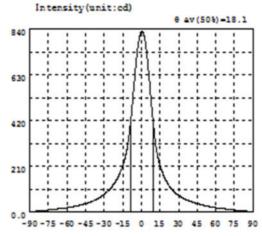
±0.2

24~65

±0.35

	Optica	l design						HK-CY-35@07-60-D6-20-1g-1					
.008 MT5.	Structur	re desigr				HK Filmy 3	35@07-60º lens						
f the contact	Rev	view						mber o	f drawi	qty	weight		
	Valid	Validation				Material:	РС			CDHK			
65~140 14	0~250	250~4	50	>450				-					
±0.50	±0.80	±1.2		±2.0									





Cree 1304

HERCULUX

Intensity data: (deg , cd) CO-180

λ	I	λ	I	λ	I	λ	I	λ	I	λ	I
-90.0	1.739	-58.5	20.69	-27.0	95.99	4.5	718.8	36.0	56.35	67.5	13.58
-88.5	1.819	-57.0	22.00	-25.5	104.5	6.0	629.2	37.5	52.45	69.0	12.57
-87.0	2.080	-55.5	23.36	-24.0	114.1	7.5	531.7	39.0	49.05	70.5	11.62
-85.5	2.546	-54.0	24.89	-22.5	125.3	9.0	439.3	40.5	45.99	72.0	10.67
-84.0	3.104	-52.5	26.63	-21.0	138.1	10.5	358.2	42.0	43.23	73.5	9.709
-82.5	3.820	-51.0	28.57	-19.5	153.2	12.0	291.6	43.5	40.53	75.0	8.744
-81.0	4.603	-49.5	30.73	-18.0	170.8	13.5	246.5	45.0	37.88	76.5	7.788
-79.5	5.528	-48.0	32.96	-16.5	190.9	15.0	212.6	46.5	35.27	78.0	6.824
-78.0	6.389	-46.5	35.36	-15.0	211.0	16.5	186.7	48.0	32.95	79.5	5.879
-76.5	7.384	-45.0	37.84	-13.5	241.0	18.0	166.1	49.5	30.93	81.0	4.972
-75.0	8.437	-43.5	40.47	-12.0	278.3	19.5	147.6	51.0	28.98	82.5	4.166
-73.5	9.512	-42.0	43.36	-10.5	330.2	21.0	131.8	52.5	27.01	84.0	3.406
-72.0	10.52	-40.5	46.55	-9.0	399.9	22.5	118.5	54.0	25.15	85.5	2.787
-70.5	11.48	-39.0	50.04	-7.5	485.5	24.0	107.4	55.5	23.38	87.0	2.281
-69.0	12.55	-37.5	54.05	-6.0	579.4	25.5	97.76	57.0	21.82	88.5	1.932
-67.5	13.47	-36.0	58.40	-4.5	672.9	27.0	89.49	58.5	20.44	90.0	1.656
-66.0	14.39	-34.5	63.31	-3.0	751.3	28.5	82.35	60.0	19.15		
-64.5	15.54	-33.0	68.66	-1.5	805.4	30.0	76.14	61.5	17.95		
-63.0	16.76	-31.5	74.60	0.0	830.3	31.5	70.43	63.0	16.70		
-61.5	17.98	-30.0	81.11	1.5	821.5	33.0	65.41	64.5	15.75		
-60.0	19.29	-28.5	88.41	3.0	784.1	34.5	60.60	66.0	14.63		

Electricity Parameter:

Current	I:	0.1000A	Power:	3.279W
Voltage	V:	32.79V	PF:	1.000

Optical Parameter (Distance=2.410m):

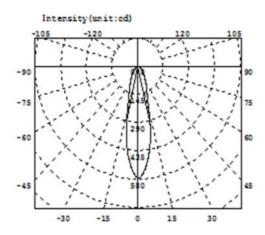
Equivalent Luminous flux: Φ eff= 279.41m Efficiency: Eff=85.211m/W Diffuse angle: @(25%): 30.4deg@(50%): 18.1deg@(75%): 11.3deg@(50%): 18.1deg Diffuse angle: @(25%): 30.4deg@(50%): 18.1deg@(75%): 11.4deg@(50%): 18.1deg Imax=831.0cd (C=0.0deg,G=0.5deg) CO-180Plane Imax= 831.0cd(G=0.5deg)

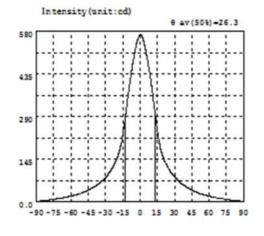
IES——

IES——









Intensity data: (deg , cd) CO-180

λ	1	λ	1	λ	I	λ	I	λ	I	λ	1
-90.0	1.649	-58.5	20.16	-27.0	96.85	4.5	522.5	36.0	61.33	67.5	12.45
-88.5	2.033	-57.0	21.66	-25.5	105.5	6.0	491.9	37.5	56.90	69.0	11.44
-87.0	2.080	-55.5	23.31	-24.0	115.5	7.5	458.5	39.0	52.94	70.5	10.47
-85.5	2.420	-54.0	25.10	-22.5	126.6	9.0	420.4	40.5	49.16	72.0	9.566
-84.0	2.909	-52.5	27.02	-21.0	138.7	10.5	380.0	42.0	45.63	73.5	8.645
-82.5	3.566	-51.0	29.05	-19.5	153.0	12.0	332.0	43.5	42.16	75.0	7.679
-81.0	4.259	-49.5	31.30	-18.0	171.5	13.5	284.9	45.0	39.07	76.5	6.803
-79.5	5.053	-48.0	33.73	-16.5	195.9	15.0	241.2	46.5	36.27	78.0	5.883
-78.0	5.847	-46.5	36.30	-15.0	229.2	16.5	204.1	48.0	33.64	79.5	5.044
-76.5	6.737	-45.0	39.10	-13.5	269.2	18.0	176.7	49.5	31.10	81.0	4.219
-75.0	7.706	-43.5	42.08	-12.0	314.5	19.5	156.6	51.0	28.83	82.5	3.552
-73.5	8.635	-42.0	45.40	-10.5	359.1	21.0	141.8	52.5	26.83	84.0	2.884
-72.0	9.577	-40.5	48.96	-9.0	401.9	22.5	129.4	54.0	24.89	85.5	2.377
-70.5	10.61	-39.0	52.69	-7.5	443.2	24.0	118.4	55.5	23.11	87.0	1.938
-69.0	11.62	-37.5	56.54	-6.0	478.8	25.5	108.1	57.0	21.51	88.5	1.604
-67.5	12.63	-36.0	60.78	-4.5	510.8	27.0	98.97	58.5	19.99	90.0	1.576
-66.0	13.74	-34.5	65.68	-3.0	538.4	28.5	90.89	60.0	18.59		
-64.5	14.92	-33.0	70.93	-1.5	558.2	30.0	83.74	61.5	17.24		
-63.0	16.09	-31.5	76.42	0.0	569.5	31.5	77.30	63.0	15.97		
-61.5	17.41	-30.0	82.39	1.5	564.7	33.0	71.64	64.5	14.71		
-60.0	18.74	-28.5	89.23	3.0	547.1	34.5	66.25	66.0	13.59		

Electricity Parameter:

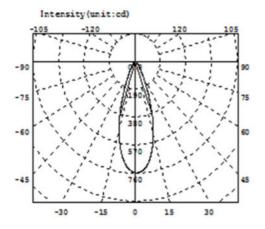
Current I:	0.1000A	Power:	3.450W
Voltage V:	34.50V	PF:	1.000

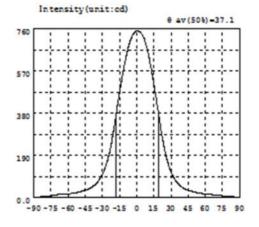
Optical Parameter (Distance=2.410m):

Equivalent Luminous	flux: 4	eff= 279.51m	Efficiency: Eff=81.03lm/W	
Diffuse angle:	@(25%):	41.4deg@(50%):	26.3deg @(75%): 16.7deg @(50%): 26.3deg	J
Diffuse angle:	@(25%):	41.4deg@(50%):	26.4deg @(75%): 16.7deg @(50%): 26.4deg	J
Imax=570.0cd (C=0.0	deg,G=0.	5deg)	CO-180Plane Imax= 570.0cd(G=0.5deg)	
			CO-180Plane IO= 569.5cd	

IES——







Intensity data: (deg , cd) CO-180

λ	1	λ	1	λ	I	λ	I	λ	I	λ	1
-90.0	1.570	-58.5	16.92	-27.0	143.9	4.5	735.5	36.0	62.57	67.5	11.21
-88.5	1.582	-57.0	17.94	-25.5	169.4	6.0	720.9	37.5	54.61	69.0	10.38
-87.0	1.832	-55.5	19.05	-24.0	198.7	7.5	698.7	39.0	48.27	70.5	9.584
-85.5	2.195	-54.0	20.33	-22.5	234.9	9.0	671.3	40.5	43.12	72.0	8.807
-84.0	2.683	-52.5	21.84	-21.0	277.7	10.5	636.9	42.0	38.78	73.5	8.075
-82.5	3.263	-51.0	23.58	-19.5	325.8	12.0	597.2	43.5	35.09	75.0	7.274
-81.0	3.931	-49.5	25.48	-18.0	375.8	13.5	554.9	45.0	32.11	76.5	6.543
-79.5	4.687	-48.0	27.69	-16.5	426.2	15.0	509.7	46.5	29.66	78.0	5.825
-78.0	5.369	-46.5	30.12	-15.0	474.0	16.5	462.4	48.0	27.44	79.5	5.104
-76.5	6.151	-45.0	32.52	-13.5	520.1	18.0	413.9	49.5	25.36	81.0	4.374
-75.0	7.075	-43.5	35.03	-12.0	562.9	19.5	364.1	51.0	23.60	82.5	3.738
-73.5	8.253	-42.0	38.05	-10.5	603.2	21.0	309.9	52.5	21.98	84.0	3.107
-72.0	9.033	-40.5	41.99	-9.0	641.1	22.5	265.2	54.0	20.52	85.5	2.561
-70.5	10.03	-39.0	47.06	-7.5	673.4	24.0	224.8	55.5	19.18	87.0	2.069
-69.0	14.29	- 37 . 5	53.01	-6.0	700.2	25.5	189.5	57.0	17.92	88.5	1.681
-67.5	13.87	-36.0	59.85	-4.5	721.0	27.0	159.8	58.5	16.76	90.0	1.385
-66.0	12.21	-34.5	68.31	-3.0	736.0	28.5	134.7	60.0	15.67		
-64.5	12.87	-33.0	78.33	-1.5	745.1	30.0	114.1	61.5	14.63		
-63.0	13.94	-31.5	90.31	0.0	749.9	31.5	97.13	63.0	13.65		
-61.5	16.02	-30.0	104.7	1.5	749.8	33.0	83.47	64.5	12.79		
-60.0	17.03	-28.5	122.5	3.0	744.2	34.5	72.26	66.0	12.16		

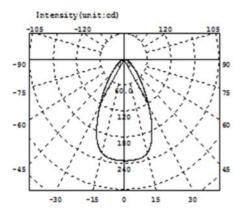
Electricity Parameter:

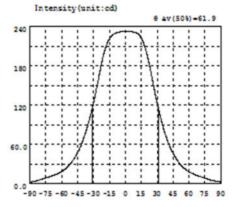
Current I:	0.2000A	Power:	6.860W
Voltage V:	34.29V	PF:	1.000

Optical Parameter (Distance=2.410m):

Equivalent Luminous	s flux: 4 eff= 399.01m	Efficiency: Eff=58.17lm/W
Diffuse angle:	@(25%): 50.0deg@(50%	: 37.1deg@(75%): 25.2deg@(50%): 37.1deg
Diffuse angle:	@(25%): 50.0deg@(50%	: 37.1deg @(75%): 25.2deg @(50%): 37.1deg
Imax=750.5cd (C=0.0	Odeg,G=0.5deg)	C0-180Plane Imax= 750.5cd(G=0.5deg)
		C0-180Plane IO= 749.9cd

Cree 1304





Intensity data: (deg , cd) CO-180

λ	I	λ	I	λ	I	λ	1	λ	1	λ	1
-90.0	2.169	-58.5	19.97	-27.0	147.2	4.5	232.2	36.0	83.63	67.5	12.27
-88.5	2.327	-57.0	21.79	-25.5	159.4	6.0	231.9	37.5	75.67	69.0	11.35
-87.0	2.669	-55.5	23.83	-24.0	171.6	7.5	231.6	39.0	68.49	70.5	10.50
-85.5	3.238	-54.0	26.19	-22.5	183.5	9.0	231.1	40.5	61.89	72.0	9.669
-84.0	3.954	-52.5	28.87	-21.0	194.1	10.5	230.3	42.0	56.18	73.5	8.846
-82.5	4.738	-51.0	31.97	-19.5	203.3	12.0	228.6	43.5	50.85	75.0	8.082
-81.0	5.583	-49.5	35.15	-18.0	210.5	13.5	225.8	45.0	46.10	76.5	7.326
-79.5	6.384	-48.0	38.79	-16.5	216.6	15.0	222.0	46.5	41.81	78.0	6.600
-78.0	7.140	-46.5	42.83	-15.0	221.2	16.5	216.9	48.0	37.90	79.5	5.886
-76.5	7.905	-45.0	47.26	-13.5	224.7	18.0	210.6	49.5	34.27	81.0	5.152
-75.0	8.622	-43.5	52.17	-12.0	227.1	19.5	202.6	51.0	31.02	82.5	4.415
-73.5	9.361	-42.0	57.67	-10.5	229.0	21.0	193.1	52.5	28.08	84.0	3.727
-72.0	10.10	-40.5	63.86	-9.0	230.1	22.5	182.2	54.0	25.49	85.5	3.105
-70.5	10.89	-39.0	70.69	-7.5	230.8	24.0	170.4	55.5	23.17	87.0	2.933
-69.0	11.72	-37.5	78.16	-6.0	231.3	25.5	158.0	57.0	21.14	88.5	2.781
-67.5	12.60	-36.0	86.14	-4.5	231.8	27.0	145.7	58.5	19.36	90.0	2.068
-66.0	13.56	-34.5	94.85	-3.0	232.1	28.5	133.6	60.0	17.83		
-64.5	14.62	-33.0	103.9	-1.5	232.3	30.0	122.2	61.5	16.42		
-63.0	15.75	-31.5	113.6	0.0	232.3	31.5	111.3	63.0	15.27		
-61.5	16.99	-30.0	124.0	1.5	232.4	33.0	101.4	64.5	14.21		
-60.0	18.39	-28.5	135.3	3.0	232.4	34.5	92.15	66.0	13.21		

Electricity Parameter:

Current I:	0.1000A	Power:	3.230W
Voltage V:	32.29V	PF:	1.000

Optical Parameter (Distance=2.410m):

Equivalent Luminous flux: Φ eff= 300.21m Efficiency: Eff=92.961m/W Diffuse angle: 0(258): 83.2 deg 0(508): 61.9 deg 0(758): 47.0 deg 0(508): 61.9 degDiffuse angle: <math>0(258): 83.3 deg 0(508): 61.9 deg 0(758): 47.1 deg 0(508): 61.9 degImax=232.4 cd (C=0.0 deg,G=2.5 deg) C0-180 Plane Imax= 232.4 cd (G=2.5 deg)C0-180 Plane I0= 232.3 cd

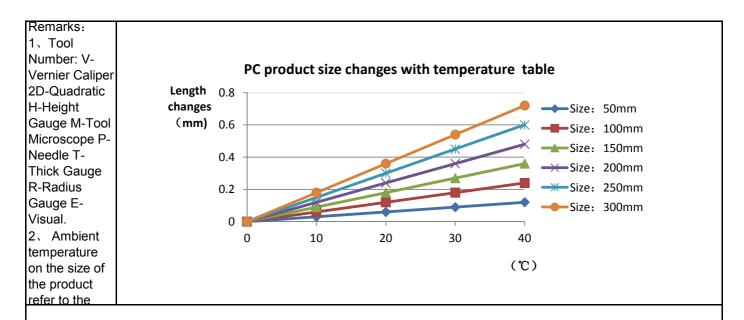
第 11 页

Sample para HK Filmy 35@07-15° lens

Upper Lower Standar Test Test Test Test Test Test Test Test Judg Size size Remarks d size result1 result2 result3 result4 result5 result6 result7 result8 ment limit limit dia met 35 34.93 34.94 34.96 34.93 34.96 34.94 34.95 34.95 Test er environment : In 20 °C -**25** °C thick environment 1.Si 1.2 1.25 1.23 1.23 1.24 1.24 1.25 1.23 1.24 ness to achieve ze thermal equilibrium after the heig test. 6.92 6.74 6.74 6.84 6.83 6.74 6.8 6.8 6.81 ht Gate shear can not affect the appearance of the lamp See attachment "Appearance Inspection Standards" See attachmen No burr No burr No burr No burr 2.Appe t "Appearan arance Е OK Quality се No stains No stains No stains No stains Inspection Standards' PC 3.Materi Color Transparent OK esting LE D6 The size and rated power of the light-emitting surface (LES) of the COB recommended by this lens should conform to the parameters in the product basic information table. if it is required to be out of range. According to the heat dissipation capability of the lamp and the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life. 4.0 ptica FWHM See light distribution curve inde angle 18 18.3 17.9 17.9 18.4 18.6 17.8 18.4 х K-value 2.98 2.73 2.88 2.96 2.93 2.60 2.75 2.51 (CD/LM) Efficiency 84.8% 84.8% 83.6% 84.8% 84.8% 84.8% 84.8% 84.8% See the signature sample Facula Comprehensiv Qualified e judgment

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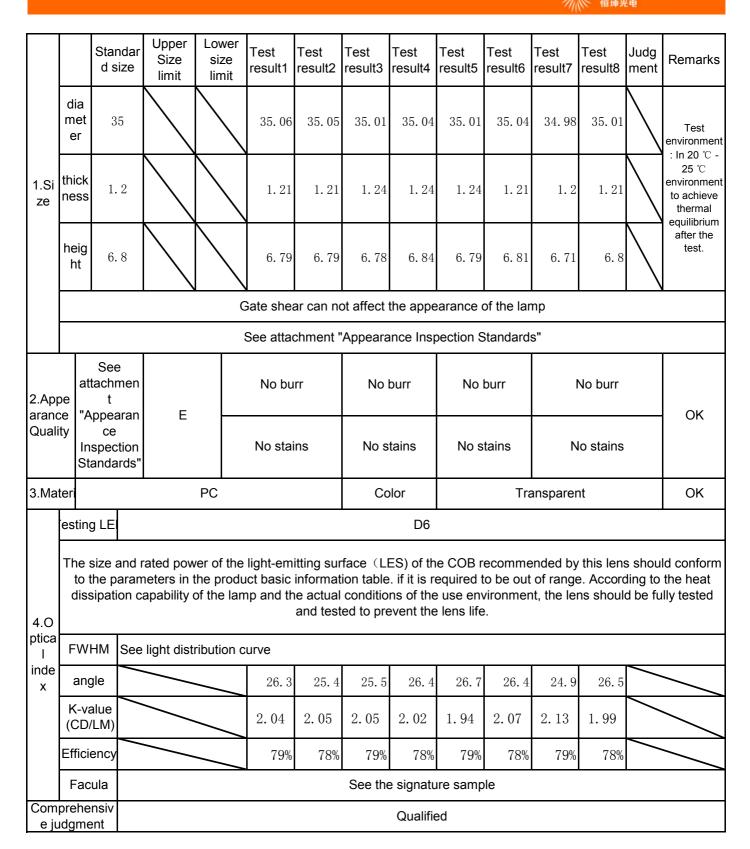
Precautions:

1. Please wear clean gloves during the lens assembly process to prevent the lens surface from being contaminated. 2. Try to avoid touching the total reflection surface when taking the lens.

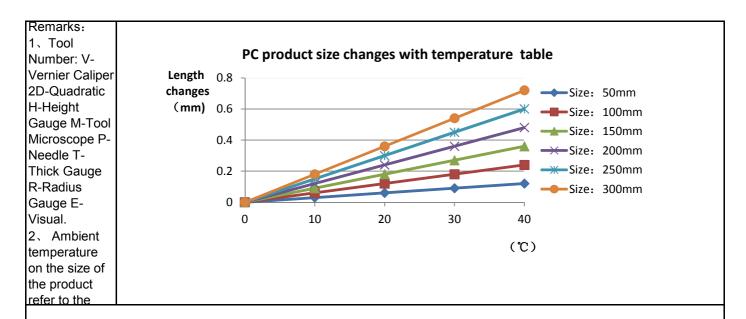
3. The lens surface is contaminated. Only use a soft cotton cloth dipped in analytically pure neutral solvent to wipe gently. Do not wipe with industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA Body, etc.).

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.

Sample para HK Filmy 35@07-24° lens



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Precautions:

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.

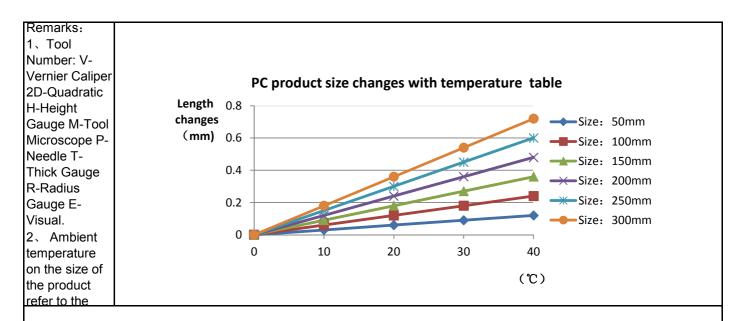
3. The lens surface is contaminated. Only use a soft cotton cloth dipped in analytically pure neutral solvent to wipe gently. Do not wipe with industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA Body, etc.).

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.

Sample para HK Filmy 35@07-36° lens

		Standar d size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Test result5	Test result6	Test result7	Test result8	Judg ment	Remarks
	dia met er	35			34.94	34.94	34.98	34. 91	34.92	34.96	34.95	35. 02		Test environment
1.Si ze	thick ness	1.2			1.32	1.28	1.3	1.29	1.25	1.26	1.25	1.25		: In 20 ℃ - 25 ℃ environment to achieve thermal equilibrium
	heig ht	6.9			6.91	6.92	6.96	6.99	6.89	6. 89	6.9	7.1		after the test.
				G	ate shea	ar can no	ot affect	the appe	earance	of the lar	np			
				Ś	See atta	chment "	Appeara	ince Insp	pection S	standard	s"			
2.App aranc	be	See tachmen t ppearan	E		No bu	ırr	No	burr	No	burr	ľ	No burr		ОК
Quali	ty In	ce spection andards"	e ction		No stai	ins	No stains		No stains		Ν	No stains		ÖK
3.Mat	teri		#	¢N/A			Co	lor	Transparent				ОК	
	estin	g LEI						#N/A						
4.0	to t	he parar	rated powe neters in th apability o	ne produ	ct basic op and th	informat ne actual	ion table	. if it is re ns of the	equired t e use env	o be out /ironmer	of range	e. Accord	ding to	
ptica I	FWI	HM See	light distri	ibution c	urve									
inde x	ang	gle			36.2	37.1	38.5	36.7	36.3	36.3	35.7	36.2		
	K-va (CD/				1.96	1.88	1.70	1.90	1.90	1.92	1.92	1.90		
	Efficie	ency			86%	86%	86%	86%	86%	86%	86%	86%		
	Fac	ula	See the signature sample											
		rehensiv Qualified												

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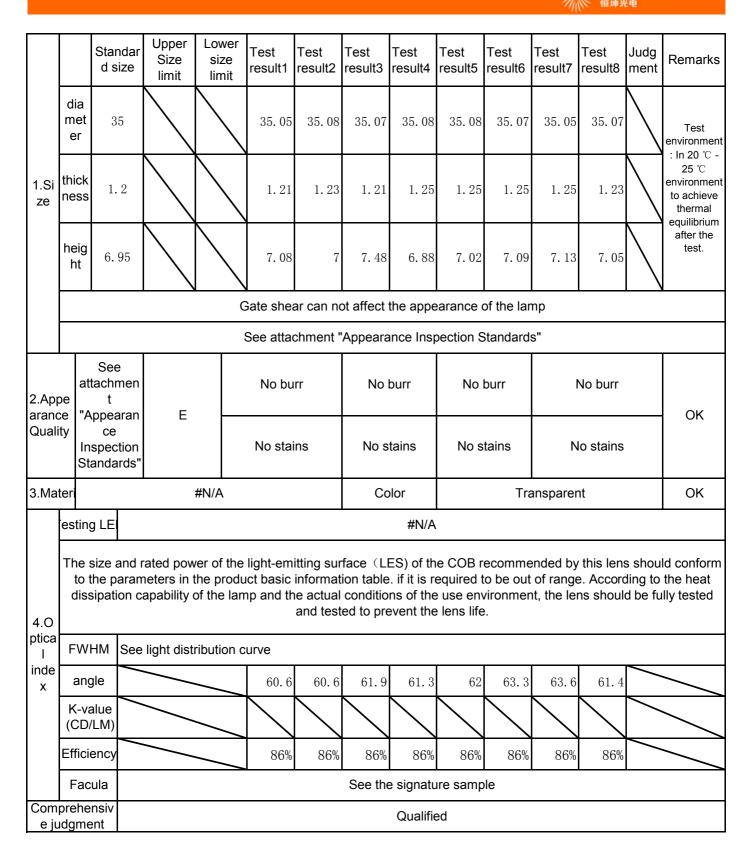
Precautions:

1. Please wear clean gloves during the lens assembly process to prevent the lens surface from being contaminated. 2. Try to avoid touching the total reflection surface when taking the lens.

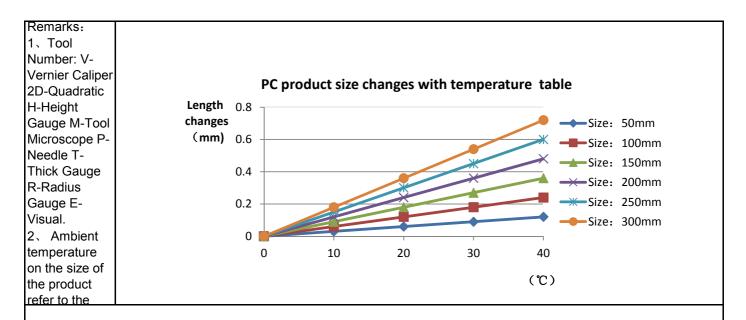
3. The lens surface is contaminated. Only use a soft cotton cloth dipped in analytically pure neutral solvent to wipe gently. Do not wipe with industrial solvents (alcohol, isopropanol, acetone, ether, toluene, xylene, carbon tetrachloride, MMA Body, etc.).

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.

Sample para HK Filmy 35@07-60° lens



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Precautions:

1. Please wear clean gloves during the lens assembly process to prevent the lens surface from being 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.).

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.

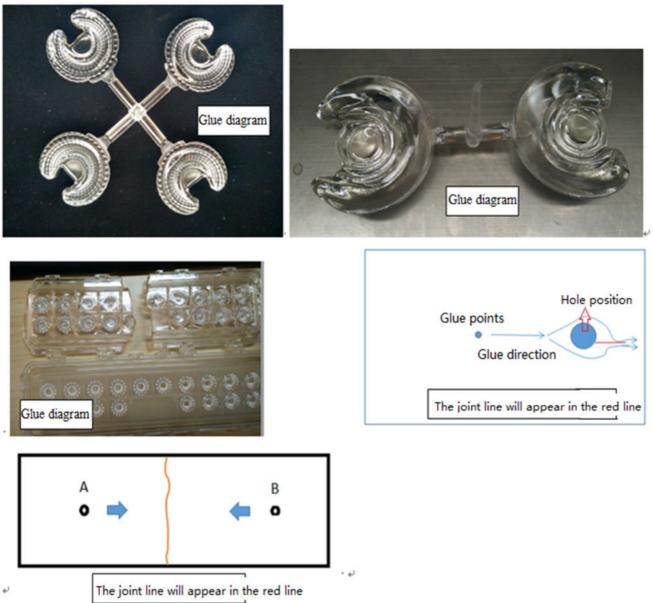


PI	N	HK-CY-35@07-15-D6-20-1g-1 Product Name HK Filmy 35@07-15° lens					
Product	material			PC			
Package	diagram	Single Vac	cuum packa	ge Box	x package	2	>
Product	packing		A/ Box		pcs/Layer		
			Layer/Box		A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1		Blister box	23cm*21cm		BAG	
Dookoain	2	2.08.0001	PE film	30cm*30cm		PCS	
Packagin g Materials	3	2.06.0005	Reel label paper	6.2cm*8cm		PCS	
Materials	4	2.06.0005	Box label paper	6.2cm*9.2cm		PCS	
	5	2.06.0003	big plate	46.8cm*42.8cm		PCS	
	6	2.06.0015	big flat carton	48cm*44cm*19cr	n	PCS	
Remarks		The loose packing is not subjec	t to this specif	ïcation. Customer's	requirements shall	orevail	

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	ludeing stondard	Inspection equipment	Defect level		
restitents	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		V
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	1 : Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided;	Visual	v	
	2: The remaining flow marks shall not appear in the optical surface, a single L \leq 10mm, no more than two			

Bubble	No bubbles are allowed	Visual		\checkmark	
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		
Bad incision	1: Do not affect the product size, shall not penetrate the optical surface, the cut should be smooth;	Visual			
	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 $D \le 1$ mm and no more than 1 area within a 50x50 mm area	Visual		V	