

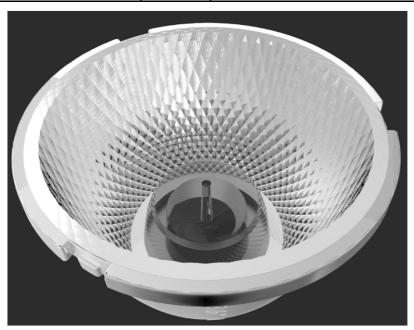
HERCULUX Chengdu HercuLux Photoelectric 恒坤光电 Technology Co.,Ltd Product Approval

Approval number:

Customer:

Manufacturer: Chengdu HercuLux Photoelectric Technology Co.,Ltd

PN	Code	Product
HK-HG-62@30-15-D9-21-1g-1	1. 08. 02218	Gemini 62-30 -15 degree reflective of
HK-HG-62@30-24-D9-21-1g-1	1. 08. 02315	Gemini 62-30 -24 degree reflective of
HK-HG-62@30-36-D9-21-1g-1	1. 08. 02322	Gemini 62-30 -36 degree reflective of
HK-HG-62@30-50-D9-21-1g-1	1. 08. 02307	Gemini 62-30 -50 degree reflective o



	Supplier co	onfirmation		Client o	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) $% \label{eq:confirmation} % \label{eq:confirmat$

Factory: Chengdu Shuangliu District, Iot industrial park 2 road HercuLux Photoelectric Park

Phone: 028-85887727 (801) 028-85887990 (801) Fax: 028-85887730 http://www.herculux.cn/
Sales Dept: Shenzhen Nanshan District Nanshan Cloud Valley Innovation Industrial Park Comprehensive Service Building, 501-

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

^{*}Approval In duplicate, for both supplier and customer.

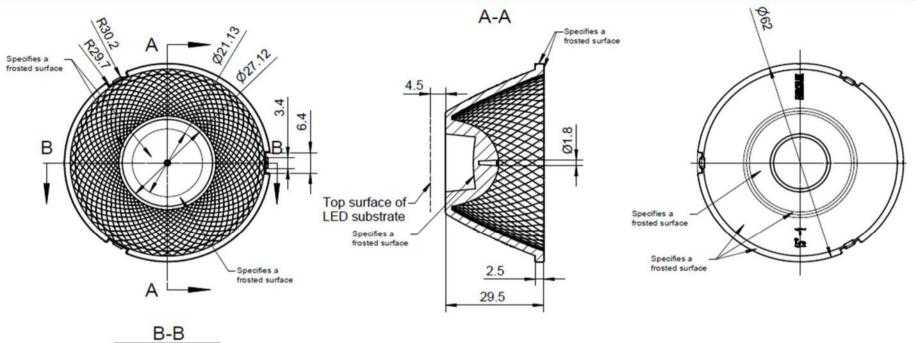


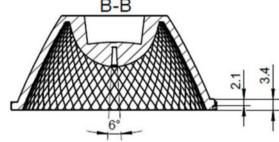
HERCULUX Product Approval

TEL: 0755-2937 1541 Date updated: 2021/12/18 FAX: 0755-2907 5140 http://www.herculux.cn/

Product Picture:	
PN:	HK-HG-62@30-15-D9-21-1g-1
Size(L*W*H/Φ*H):	Ф:62mm; H:30mm
Material:	PC half aluminum plating
	PC flatt alufflificiti platting
Effiency:	\
Effiency:	\ Material extreme temperature resistance : -40°C to +120°C





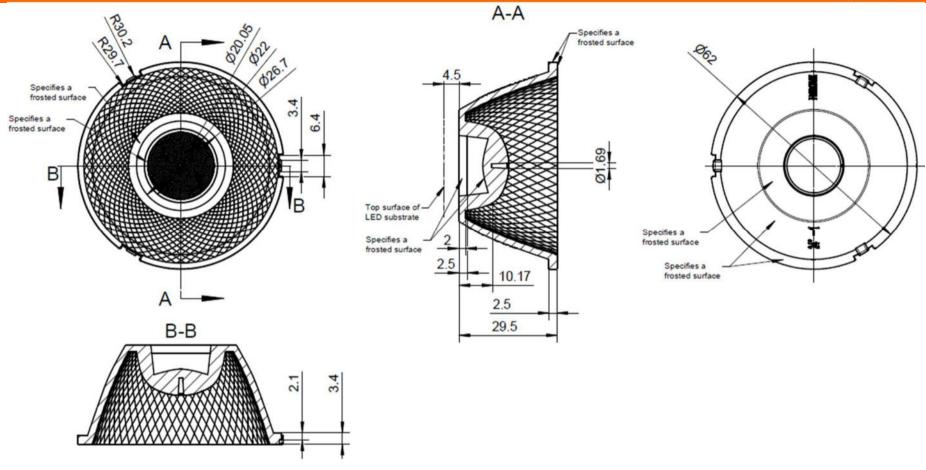


- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.

	Optical	design							HK-HG-62@30-15-D9-21-1g-1					
	tructur	e desig	<u> </u>					i 62-30 -15 degree lective cup		1.08.02218				
	Rev	Review						umber of drawi	n qty	weight				
	Validation					Material:	C half aluminum platir		CDHK					
٦.	250	250-	450	/	450									

MT5 Tolerance	Basic size	<3	3∼10	24~65	65~140	140~250	250~	~450	>45	50			
	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80		L.2	±2.0	0			



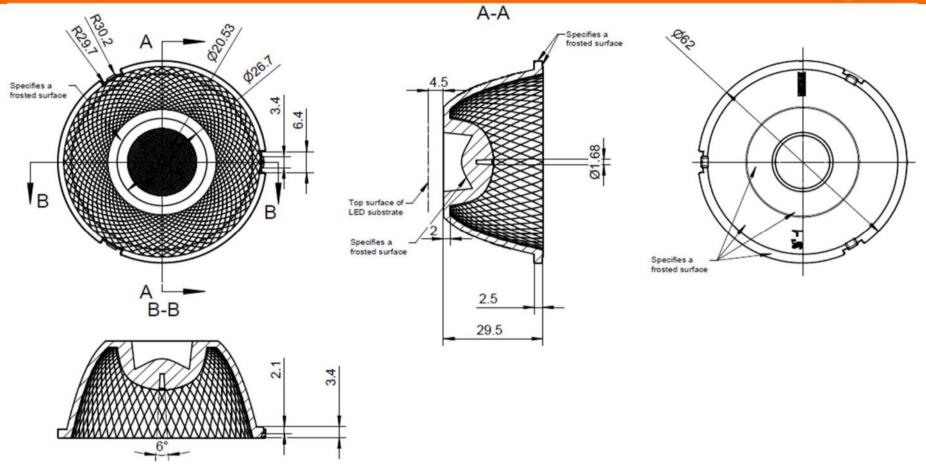


- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.

	Optical (design						HK-HG-62@30-24-D9-21-1g-1					
	tructure	ucture desig					ni 62-30 -24 degree flective cup						
Ī	Review							umber of drawin	qty	wei	ight		
Ī	Validation					Material:	C half aluminum platir		CDHK				
_	~250 250~450 >450												

MT5	Basic size	<3	3∼10	24~65	65~140	140~250	250~45	>4	450
Tolerance									
		.0.1	10.45	10.25	.0.50				
table (mm)	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.2	±2.	0



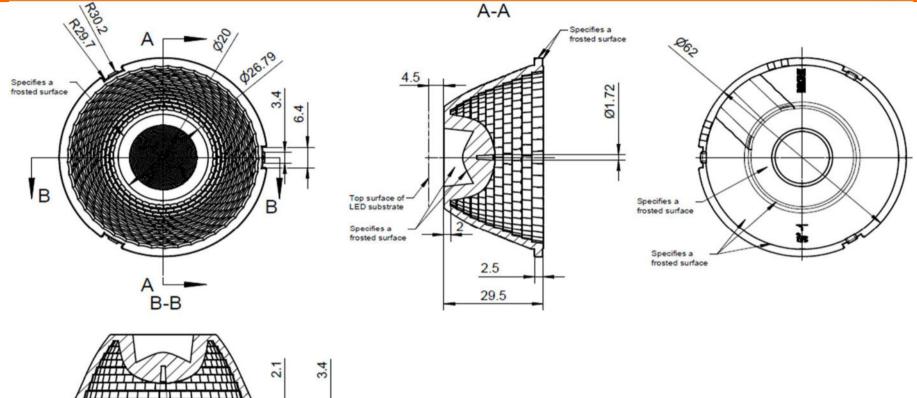


- 1. The 3D map is not indicated for rounded corners and draft angle.
- 2. The dimensional tolerances are not specified according to GB/T 14486 2008 MT5.
- 3, The surface has no flash, shrinkage, bubbles and other defects.

Optical	design							HK-HG	-62@30-36-D9-	21-1g-1		
tructur	ucture desig						i 62-30 -36 degree Tective cup					
Rev	Review							umber of drawi	qty	wei	ght	
Valid	Validation					Material:	C half aluminum platir	cir CDHK				
\sim 250	2500	~150	_	45O								

MT5	Basic size	<3	3~10	24~65	65~140	140~250	250~450	>450
erance (mm)	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.2	±2.





- 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.

Optica	l design						HK-HG-62@30-50-D9-21-1g-1					
tructu	icture desig					ni 62-30 -50 degree flective cup						
Rev	Review				umber of drawin	qty	wei	ght				
Valid	Validation		Material: C half aluminum plati			CDHK						
\sim 250	~250 250~450 >450											

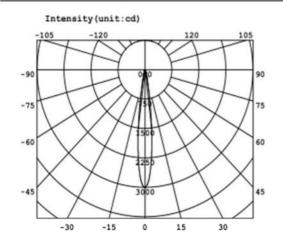
											•		
MT5 Tolerance	Basic size	<3	3~10	24~65	65~140	140~250	250~	450	>450				
	olerance valu	±0.1	±0.15	±0.35	±0.50	±0.80	±1.		±2.0				

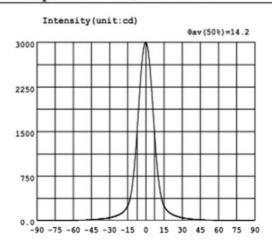






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Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	0.4067	-58.5	3.536	-27.0	67.22	4.5	2280	36.0	31.46	67.5	0.3627
-88.5	0.4058	-57.0	4.641	-25.5	76.16	6.0	1831	37.5	28.20	69.0	0.3725
-87.0	0.4163	-55.5	5.453	-24.0	86.62	7.5	1376	39.0	25.19	70.5	0.3731
-85.5	0.4037	-54.0	6.506	-22.5	99.41	9.0	986.1	40.5	22.29	72.0	0.3524
-84.0	0.3695	-52.5	7.700	-21.0	115.4	10.5	683.4	42.0	19.29	73.5	0.3121
-82.5	0.3151	-51.0	8.930	-19.5	136.0	12.0	473.2	43.5	16.58	75.0	0.2907
-81.0	0.2845	-49.5	10.29	-18.0	163.3	13.5	331.2	45.0	14.65	76.5	0.2916
-79.5	0.2652	-48.0	11.73	-16.5	198.5	15.0	248.0	46.5	12.91	78.0	0.2896
-78.0	0.2936	-46.5	13.33	-15.0	250.7	16.5	198.4	48.0	11.34	79.5	0.3034
-76.5	0.3014	-45.0	15.09	-13.5	336.4	18.0	163.4	49.5	9.882	81.0	0.3567
-75.0	0.3528	-43.5	17.18	-12.0	479.5	19.5	136.7	51.0	8.538	82.5	0.3771
-73.5	0.3691	-42.0	20.45	-10.5	707.5	21.0	116.2	52.5	7.297	84.0	0.3839
-72.0	0.4058	-40.5	23.65	-9.0	1028	22.5	100.1	54.0	6.094	85.5	0.3701
-70.5	0.3709	-39.0	26.43	-7.5	1436	24.0	87.13	55.5	5.035	87.0	0.3541
-69.0	0.3621	-37.5	29.12	-6.0	1897	25.5	76.18	57.0	4.003	88.5	0.3461
-67.5	0.2236	-36.0	32.08	-4.5	2353	27.0	67.01	58.5	3.072	90.0	0.6963
-66.0	0.2906	-34.5	35.55	-3.0	2715	28.5	58.75	60.0	2.168		
-64.5	0.5191	-33.0	39.72	-1.5	2936	30.0	50.97	61.5	1.394		
-63.0	1.038	-31.5	44.93	0.0	3000	31.5	44.51	63.0	0.8097		
-61.5	1.751	-30.0	51.63	1.5	2904	33.0	39.30	64.5	0.4096		
-60.0	2.586	-28.5	59.32	3.0	2656	34.5	35.09	66.0	0.3443		

Electricity Parameter:

Current I: 0.1000A Power: 0.4000W Voltage V: 40.00V PF: 1.000

Optical Parameter (Distance=2.410m):

Equivalent Luminous flux: Φ eff = 317.1lm Efficiency: Eff=792.82lm/W

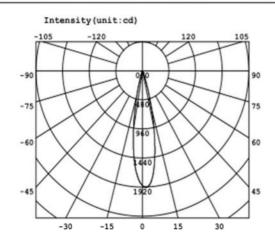
C0-180Plane IO= 3000cd

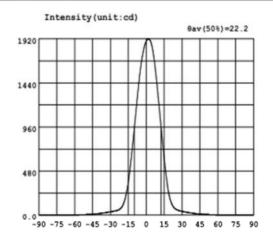




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Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	0.3616	-58.5	2.048	-27.0	43.60	4.5	1860	36.0	27.30	67.5	0.4014
-88.5	0.3061	-57.0	2.656	-25.5	47.67	6.0	1758	37.5	24.44	69.0	0.3729
-87.0	0.2833	-55.5	3.678	-24.0	52.89	7.5	1611	39.0	21.78	70.5	0.3387
-85.5	0.2729	-54.0	4.535	-22.5	62.01	9.0	1431	40.5	18.88	72.0	0.3312
-84.0	0.2842	-52.5	5.426	-21.0	79.28	10.5	1231	42.0	15.99	73.5	0.2988
-82.5	0.3164	-51.0	6.312	-19.5	110.9	12.0	1024	43.5	13.80	75.0	0.2735
-81.0	0.3153	-49.5	7.170	-18.0	164.4	13.5	819.4	45.0	11.98	76.5	0.2975
-79.5	0.3354	-48.0	8.026	-16.5	246.4	15.0	628.0	46.5	10.67	78.0	0.3110
-78.0	0.3220	-46.5	9.048	-15.0	362.1	16.5	459.3	48.0	9.481	79.5	0.3254
-76.5	0.3125	-45.0	10.24	-13.5	510.4	18.0	308.7	49.5	8.432	81.0	0.3309
-75.0	0.2720	-43.5	11.65	-12.0	684.2	19.5	203.7	51.0	7.547	82.5	0.3524
-73.5	0.2636	-42.0	13.28	-10.5	876.9	21.0	137.4	52.5	6.680	84.0	0.3361
-72.0	0.2670	-40.5	15.41	-9.0	1074	22.5	96.80	54.0	5.787	85.5	0.2830
-70.5	0.2585	-39.0	18.48	-7.5	1273	24.0	73.71	55.5	4.928	87.0	0.2939
-69.0	0.3098	-37.5	21.43	-6.0	1461	25.5	60.29	57.0	3.956	88.5	0.0702
-67.5	0.4104	-36.0	24.01	-4.5	1624	27.0	52.41	58.5	3.055	90.0	0.5379
-66.0	0.3674	-34.5	26.82	-3.0	1747	28.5	46.68	60.0	2.245		
-64.5	0.3853	-33.0	29.70	-1.5	1838	30.0	41.81	61.5	1.523		
-63.0	0.4617	-31.5	32.90	0.0	1895	31.5	37.63	63.0	0.9208		
-61.5	0.8555	-30.0	36.46	1.5	1918	33.0	33.79	64.5	0.4796		
-60.0	1.392	-28.5	39.92	3.0	1911	34.5	30.31	66.0	0.4121		

Electricity Parameter:

Current I: 0.1000A Power: 3.250W Voltage V: 32.50V PF: 1.000

Optical Parameter (Distance=2.410m):

Efficiency: Eff=105.311m/W Equivalent Luminous flux: Φ eff = 342.21m

Diffuse angle: @(25%): 30.0deg@(50%): 22.2deg@(75%): 15.0deg@(50%): 22.2deg Diffuse angle: @(25%): 30.1deg@(50%): 22.4deg@(75%): 15.3deg@(50%): 22.4deg

Imax=1919cd (C=0.0deg,G=2.0deg) C0-180Plane Imax= 1919cd(G=2.0deg)

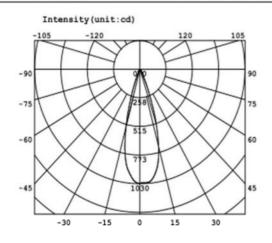
C0-180Plane I0= 1895cd

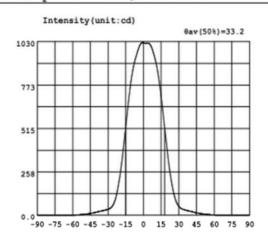




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GO1900L GONIOPHOTOMETER Test Report Page 1 Of 2





Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	0.4293	-58.5	1.387	-27.0	49.16	4.5	1021	36.0	30.47	67.5	0.5031
-88.5	0.3728	-57.0	1.973	-25.5	64.40	6.0	1010	37.5	27.65	69.0	0.4343
-87.0	0.3057	-55.5	2.709	-24.0	90.47	7.5	986.4	39.0	25.25	70.5	0.3927
-85.5	0.2624	-54.0	3.555	-22.5	131.7	9.0	952.5	40.5	22.87	72.0	0.3884
-84.0	0.2633	-52.5	4.661	-21.0	185.9	10.5	912.1	42.0	20.37	73.5	0.3966
-82.5	0.3072	-51.0	5.792	-19.5	253.9	12.0	858.7	43.5	17.03	75.0	0.3985
-81.0	0.3390	-49.5	6.978	-18.0	336.3	13.5	789.6	45.0	14.75	76.5	0.4107
-79.5	0.3681	-48.0	8.271	-16.5	427.6	15.0	709.5	46.5	12.86	78.0	0.3865
-78.0	0.3880	-46.5	9.663	-15.0	523.3	16.5	617.9	48.0	11.19	79.5	0.3616
-76.5	0.3637	-45.0	11.18	-13.5	619.6	18.0	524.0	49.5	9.671	81.0	0.3196
-75.0	0.3469	-43.5	13.00	-12.0	712.3	19.5	431.8	51.0	8.270	82.5	0.2865
-73.5	0.3277	-42.0	14.96	-10.5	794.3	21.0	336.3	52.5	6.969	84.0	0.2532
-72.0	0.3245	-40.5	17.30	-9.0	860.9	22.5	258.5	54.0	5.750	85.5	0.2567
-70.5	0.3398	-39.0	20.50	-7.5	910.1	24.0	193.0	55.5	4.583	87.0	0.2912
-69.0	0.3746	-37.5	22.79	-6.0	947.0	25.5	138.6	57.0	3.490	88.5	0.4091
-67.5	0.4470	-36.0	25.00	-4.5	982.0	27.0	98.47	58.5	2.673	90.0	0.1364
-66.0	0.4958	-34.5	27.46	-3.0	1009	28.5	71.49	60.0	2.022		
-64.5	0.5435	-33.0	29.81	-1.5	1022	30.0	54.22	61.5	1.439		
-63.0	0.5866	-31.5	32.64	0.0	1023	31.5	43.41	63.0	1.098		
-61.5	0.7699	-30.0	35.83	1.5	1021	33.0	37.51	64.5	0.7774		
-60.0	1.057	-28.5	40.42	3.0	1021	34.5	33.67	66.0	0.5684		

Electricity Parameter:

Current I: 0.1000A Power: 3.250W Voltage V: 32.50V PF: 1.000

Optical Parameter (Distance=2.410m):

Equivalent Luminous flux: Φ eff = 348.41m Efficiency: Eff=107.221m/W

Diffuse angle: @(25%): 41.9deg@(50%): 33.2deg@(75%): 24.8deg@(50%): 33.2deg
Diffuse angle: @(25%): 41.9deg@(50%): 33.3deg@(75%): 24.9deg@(50%): 33.3deg
Imax=1025cd (C=0.0deg,G=-0.5deg)
C0-180Plane Imax= 1025cd(G=-0.5deg)

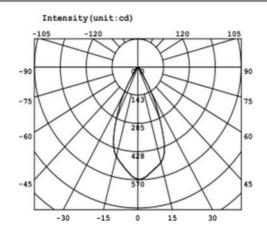
C0-180Plane I0= 1023cd

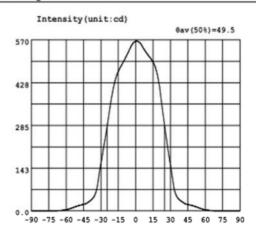




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GO1900L GONIOPHOTOMETER Test Report Page 1 Of 2





Intensity data: (deg , cd) C0-180

A	I	A	I	A	I	A	I	A	I	A	I
-90.0	0.3694	-58.5	5.383	-27.0	226.0	4.5	556.7	36.0	45.40	67.5	0.9125
-88.5	0.3316	-57.0	7.064	-25.5	260.5	6.0	547.1	37.5	38.49	69.0	0.6676
-87.0	0.3443	-55.5	9.032	-24.0	297.5	7.5	537.7	39.0	33.60	70.5	0.4279
-85.5	0.3439	-54.0	11.24	-22.5	336.0	9.0	529.3	40.5	29.57	72.0	0.3846
-84.0	0.3555	-52.5	13.30	-21.0	372.7	10.5	521.0	42.0	25.49	73.5	0.3763
-82.5	0.3675	-51.0	15.42	-19.5	404.8	12.0	513.5	43.5	22.98	75.0	0.3523
-81.0	0.3342	-49.5	17.44	-18.0	430.6	13.5	505.6	45.0	21.45	76.5	0.3290
-79.5	0.3547	-48.0	18.95	-16.5	450.4	15.0	496.4	46.5	20.13	78.0	0.3419
-78.0	0.3559	-46.5	20.44	-15.0	464.5	16.5	484.3	48.0	18.80	79.5	0.3382
-76.5	0.3465	-45.0	21.91	-13.5	476.6	18.0	466.0	49.5	17.39	81.0	0.3585
-75.0	0.3360	-43.5	23.65	-12.0	486.9	19.5	439.8	51.0	15.36	82.5	0.4066
-73.5	0.3747	-42.0	26.19	-10.5	497.4	21.0	403.6	52.5	13.20	84.0	0.3423
-72.0	0.3879	-40.5	30.48	-9.0	508.6	22.5	356.6	54.0	11.12	85.5	0.3694
-70.5	0.4878	-39.0	34.80	-7.5	520.5	24.0	313.0	55.5	8.875	87.0	0.3341
-69.0	0.6946	-37.5	39.94	-6.0	532.1	25.5	270.1	57.0	6.884	88.5	0.3875
-67.5	0.9753	-36.0	47.58	-4.5	544.6	27.0	229.8	58.5	5.219	90.0	0.4459
-66.0	1.248	-34.5	60.53	-3.0	555.2	28.5	190.1	60.0	4.024		
-64.5	1.599	-33.0	83.80	-1.5	562.2	30.0	153.7	61.5	3.013		
-63.0	2.349	-31.5	123.1	0.0	565.8	31.5	117.4	63.0	2.216		
-61.5	3.166	-30.0	157.3	1.5	565.9	33.0	79.04	64.5	1.499		
-60.0	4.039	-28.5	191.7	3.0	562.4	34.5	56.89	66.0	1.170		

Electricity Parameter:

Current I: 0.1000A Power: 3.250W Voltage V: 32.50V PF: 1.000

Optical Parameter (Distance=2.559m):

Equivalent Luminous flux: Φ eff = 380.8lm Efficiency: Eff=117.19lm/W

C0-180Plane I0= 565.8cd



			Standard size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	highly	,	29. 5			29. 62	29. 62	29. 62	29. 62		
1.Size	The diam of	eter	62			61. 95	61. 9	61. 98	61. 96		Test environment: In 20 °C -25 °C environment to
	The thick		2. 5			2. 54	2. 53	2.54	2. 54		achieve thermal equilibrium after the test.
				Gate	shear can	not affect th	e appearar	nce of the la	amp		
				See	attachmen	t "Appearan	ce Inspecti	on Standar	ds"		
2.Appear	ance	atta	See chment earance	E	ı	No burr	No burr	No burr	No bu	rr	OK
Quality	Standa			1	N	o stains	No stains	No stains	No stains		Ö.K
3.Materia	al		PC	PC half aluminum plating				Tra	nsparent	OK	
4.Optica	to the so	he recommended size and power rating of the LED light source recommended for this lens should be composed the test, if it is required to be out of range. According to the heat dissipation capability of the lens should be fully tested and tested to prevent the left FWHM See light distribution curve							ability of the lamp		
I index	angle	9				14. 2	14. 4	14. 3	14. 4		
	K-val	ue				9. 46	9. 32	9. 37	9. 31		
	Efficie	ncy				68.00%	68.00%	68.00%	70.00%		
		See th	ne signatu	re sample		`					
	hensive ment						Qι	ıalified			
Juag					PC proc	luct size cl	anges wit	h temper	ature tal	ale	
Remarks: 1. Tool Number: V-Vernier Caliper 2D-Quadratic H- Height Gauge M-Tool Microscope P-Needle T- Thick Gauge R-Radius Gauge E-Visual. 2. Ambient temperature on the size of the product refer to the table on the right			on	Length change (mm	0.9					Size: Size: Size: Size: Size:	50mm 100mm 150mm 200mm 250mm 300mm
					0	10	20	30 4	40 (℃)		

- 1. Please wear clean gloves during the lens assembly process to prevent the lens surface from being contaminated.
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			Standard	Upper	Lower	Test	Test	Test	Test	Jud	
			size	Size limit	size limit	result1	result2	result3	result4	gme nt	Remarks
	highly	/	29. 5			29. 68	29. 66	29. 66	29. 69		
1.Size	The diam of	eter	62			62. 2	62. 16	62. 12	62. 12		Test environment: In 20 °C -25 °C environment to
	The thick		2.5			2. 6	2. 58	2. 58	2. 62		achieve thermal equilibrium after the test.
				Gate	shear can	not affect th	e appearar	nce of the la	amp		
				See	attachmen	t "Appearan	ce Inspecti	on Standar	ds"		
2.Appear	ance	atta	See chment earance	E	1	No burr	No burr	No burr	No bu	rr	OK
Quality	Standards"				on No.s			No stains	No stai	ns	
3.Materia	3.Material			half alumin	um plating		Color	Tra	nsparent		OK
4.Optica	to the so	ne recommended size and power rating of the LED light source recommended for this lens should be comparable to the source of the test, if it is required to be out of range. According to the heat dissipation capability of the lamped the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life See light distribution curve								ability of the lamp	
l index	angle	9				22. 4	22. 2	22. 3	22.6		
	K-val	ue				5. 6	5. 6	5. 6	5. 45		
	Efficie	ncy				72.00%	73. 00%	74. 00%	73.00%		
	Facula	See th	ne signatu	re sample		`	-			-	
Compre judgi							Qu	ıalified			
, ,					PC pro	duct size c	hanges wi	th temper	ature ta	ble	
Remarks: 1. Tool Number: V-Vernier Caliper 2D-Quadratic H- Height Gauge M-Tool Microscope P-Needle T- Thick Gauge R-Radius Gauge E-Visual. 2. Ambient temperature on the size of the product refer to the table on the right				Lengti change (mm	s 0.9	10	20	30	# # # # # # # # # # # # # # # # # # #	Size Size Size Size	: 50mm : 100mm : 150mm : 200mm : 250mm
									(°C)		

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			Standard size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme	Remarks	
	highly	/	29. 5			29. 7	29. 68	29. 68	29. 72	nt		
1.Size	The diam of	eter	62			62. 07	62. 02	62. 05	62. 03		Test environment: In 20 °C -25 °C environment to	
	The thick		2. 5			2. 62	2.6	2. 62	2. 59		achieve thermal equilibrium after the test.	
				Gate	shear can i	not affect th	e appearar	nce of the la	amp			
				See	attachment	: "Appearan	ce Inspecti	on Standar	ds"			
2.Appear	rance	atta	See schment searance	ment		No burr	No burr	No burr	No bu	rr	OK	
Quality		Ins	pection ndards"	_	N	o stains	No stains	No stains	No stains			
3.Materia	3.Material			half alumin	um plating		Color	Tra	nsparent OK			
4.Optica	The reco	Testing LED The recommended size and power rating of to the source of the test, if it is required to b and the actual conditions of the use environ FWHM				out of range ont, the lens	. According	to the heat fully tested	t dissipatio	n capa	ability of the lamp	
I index	angle	9				34. 1	33. 2	34. 2	33. 4			
	K-val	ue				2.87	2.94	2.82	2.82 3			
	Efficie	ncy				75. 00%	74. 00%	75. 00%	75. 00%			
		See th	he signatu	re sample		`						
	ehensive ment						Qι	ualified				
juag	mont			<u> </u>	PC pro	duct size c	hanges wi	th temper	rature ta	ble		
Caliper 2 Height G Microsco Thick Ga Gauge E 2、Ambi the size G	Number: V D-Quadra auge M-To pe P-Need luge R-Rad	tic H- col dle T- dius erature uct ref	e on	Lengti change (mm	0.9	10	20			Size Size Size Size	: 50mm : 100mm : 150mm : 200mm : 250mm : 300mm	
					*		255.50	second 8	(℃)			

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			Standard size	Upper Size limit	Lower size limit	Test result1	Test result2	Test result3	Test result4	Jud gme nt	Remarks
	highly	′	29. 5			29. 63	29. 63	29. 63	29. 64		
1.Size	The diam of	eter	62			61. 9	61.96	61. 92	61.86		Test environment: In 20 °C -25 °C environment to
	The thick		2. 5			2. 54	2. 52	2. 55	2. 53		achieve thermal equilibrium after the test.
				Gate	shear can	not affect th	e appearar	nce of the la	amp		
				See	attachment	t "Appearan	ce Inspecti	on Standar	ds"		
2.Appear	ance		See achment pearance	E	1	No burr	No burr	No burr	No bu	rr	OK
Quality		Ins	spection andards"	_	N	o stains	No stains	No stains	No stains		
3.Materia	3.Material			half alumin	um plating		Color	Tra	nsparent		ОК
4.Optica	The reco	recommended size and power rating of the LED light source recommended for this lens should be comparable the source of the test, if it is required to be out of range. According to the heat dissipation capability of the lample the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment, the lens should be fully tested and tested to prevent the lens life that the actual conditions of the use environment.								ability of the lamp	
l index	angle)				48.8	49. 5	49. 1	48. 9		
	K-val	ue				1. 5	1.48	1.5	1.5		
	Efficie	ncy				70.00%	72.00%	73. 00%	72.00%		
	Facula	See t	he signatu	re sample		,	-	-	-	•	
Compre	hensive ment						Qι	ualified			
James.					PC pro	duct size o	hanges wi	ith temne	rature ta	ble	
Caliper 2 Height Ga Microsco Thick Ga Gauge E- 2、 Ambi the size o	Number: V D-Quadra auge M-To pe P-Need uge R-Rad	tic H- pol dle T- dius rature uct re	e on	Lengti change (mm	es 0.9	10	20	30	# # # # # # # # # # # # # # # # # # #	-Size -Size -Size -Size	: 50mm : 100mm : 150mm : 200mm : 250mm : 300mm
									(℃)		

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PI	V	HK-HG-62@30-15-D9-2	1-1g-1	Product Name	K Gemini 62-30 -15 c	legree re	eflective cu
Product	material	PC half aluminum pla	ting	Customer			
Package	diagram	© → Single Vac	cuum packa	⇒ B	ox package		>
Product	packing	9	A/ Box	4	pcs/Layer		
	p 9	9	Layer/Box	324	A/ Carton		
	NO.	Part No	Part name	Size	Dosage	Unit	Remarks
	1	2. 07. 0078	Blister box	23cm*21cm	36	BAG	
Dookogin	2	2. 08. 0001	PE film	25cm*27cm	36	PCS	
Packagin g	3	2. 06. 0005	Reel label paper	62mm*42mm	36	PCS	
Materials	4	2. 06. 0005	Box label paper	62mm*70mm	1	PCS	
	5	2. 06. 0003	big plate	46cm*42cm	10	PCS	
	6	2. 06. 0011	big flat carton	48cm*44cm*37	cm 1	PCS	
Remarks	Scattere	d packaging is not restricted by		on, the customer l prevail	has the requirements	of the cu	ustomer



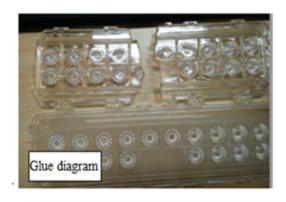
Special notice

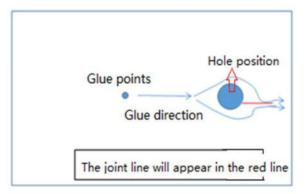
When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. The product which uses multi-point injection welding line will appear because of the combination of sol, as shown below:

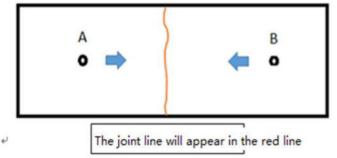
Syntneti











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	Η	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	ludging standard	Inspection equipment	Defec	t level	
restitems	Judging standard	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		I	1	i	i i
	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	 1 : Product does not allow the presence of flow marks and welding lines unless the structure can not be avoided; 2: 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;				
Bad incision	2: Laser cutting products, the optical surface burns shall not occur after the processing is completed. Beading must not affect product installation	Visual			√
	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 \leq 1 mm and no more than 1 area within a 50x50 mm area	Visual		√	