

GONIOPHOTOMETERS SYSTEM TEST REPORT

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LED Spotlight KENZO Series K1X55-9W-930-24D

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Light Output Ratio:	100.0%	
Luminaire Power:	10.69 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

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C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-08-30

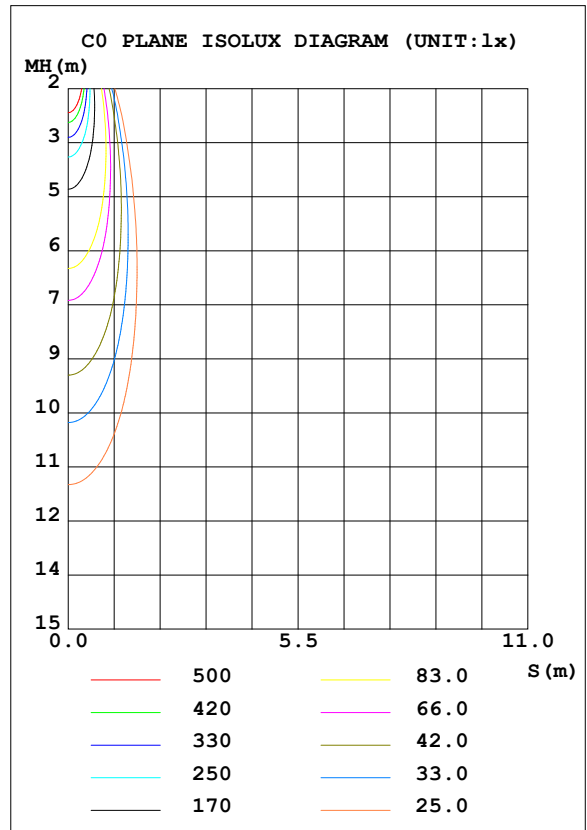
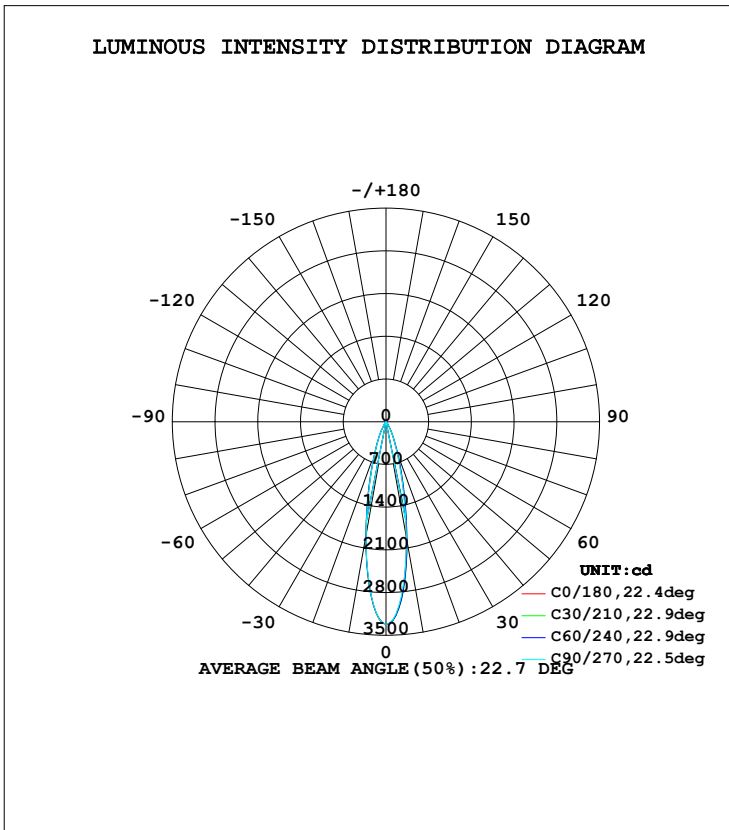
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0537A P:10.69W PF:0.9023 Lamp Flux:717.195x1 lm		
NAME: K1X55-9W-930-24D	TYPE:Spotlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.08 lm/W			
MODEL	CITIZEN-3000K	I <sub>max</sub> (cd)	3321	S/MH (C0/180)	0.38
NOMINAL POWER (W)	11.0	LOR (%)	100.0	S/MH (C90/270)	0.38
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	717.20	η UP, DN (C0-180)	0.0, 50.7
NOMINAL FLUX (lm)	717.195	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-08-30

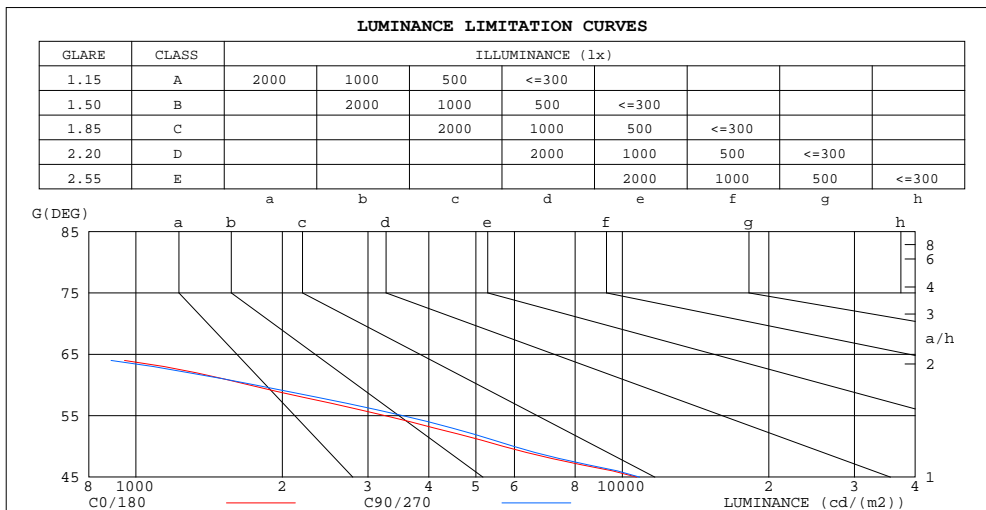
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
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**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	1921	2021	1924	1859	1884	1878	1882	1852	0- 10	241.6	241.6	33.7,33.7
20	530.7	583.9	538.4	485.9	512.9	537.3	523.9	487.6	10- 20	290.9	532.4	74.2,74.2
30	131.4	143.9	127.8	117.9	120.4	110.7	113.3	117.7	20- 30	126.7	659.1	91.9,91.9
40	33.35	34.84	32.74	30.48	30.38	29.03	29.44	30.62	30- 40	39.08	698.2	97.3,97.3
50	8.693	8.874	9.134	8.078	9.073	8.375	8.339	8.518	40- 50	13.71	711.9	99.3,99.3
60	2.030	2.354	2.086	2.039	2.335	2.281	2.139	2.180	50- 60	4.315	716.2	99.9,99.9
70	0.1663	0.1638	0.1839	0.1464	0.1332	0.1663	0.1551	0.1619	60- 70	0.8433	717.1	100,100
80	0.0678	0.0480	0.0744	0.0459	0.0393	0.0678	0.0437	0.0613	70- 80	0.1042	717.2	100,100
90	0.0262	0.0262	0.0262	0.0241	0.0175	0.0175	0.0175	0.0175	80- 90	0.0387	717.2	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	211	233
80	164	181
75	164	189
70	205	226
65	761	702
60	1710	1757
55	3253	3538
50	5695	5984
45	10707	10850

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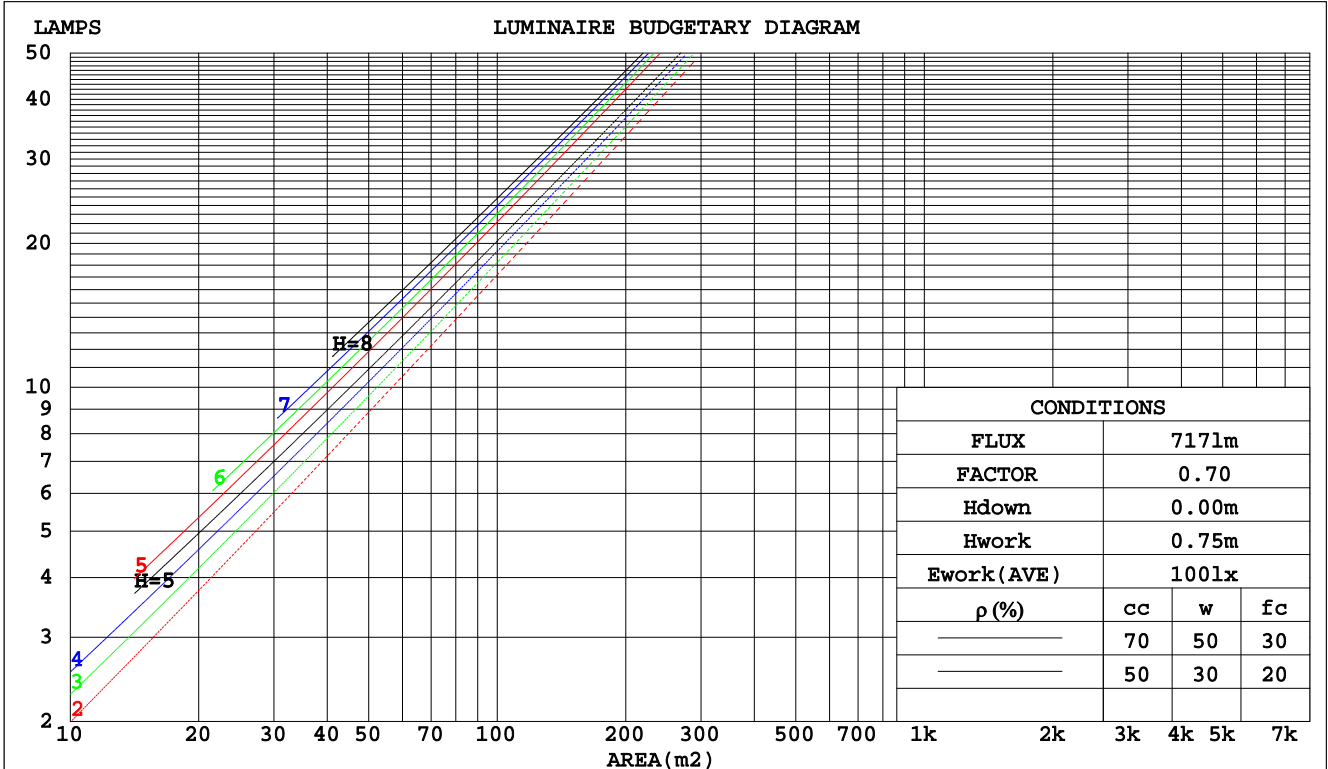
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 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.03	1.00	1.02	1.00	.98	.99	.98	.96	.97	.95	.94	.93
3.0	1.02	.98	.95	1.01	.97	.95	.98	.96	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.87	.93	.89	.86	.92	.88	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.86	.83	.90	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
7.0	.87	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.84	.81	.79	.78
8.0	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.78	.75	.81	.77	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.75	.72	.78	.74	.72	.77	.74	.72	.71



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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.141	.080	.025	.135	.077	.024	.122	.070	.022	.111	.064	.021	.100	.058	.019	
2.0	.132	.072	.022	.126	.070	.021	.116	.065	.020	.107	.060	.019	.098	.055	.017	
3.0	.123	.066	.020	.119	.064	.019	.110	.060	.018	.102	.056	.017	.095	.053	.016	
4.0	.116	.060	.018	.112	.059	.017	.105	.056	.017	.098	.053	.016	.092	.050	.015	
5.0	.110	.056	.016	.106	.055	.016	.100	.052	.015	.094	.050	.015	.089	.047	.014	
6.0	.104	.052	.015	.101	.051	.015	.096	.049	.014	.091	.047	.014	.086	.045	.013	
7.0	.099	.049	.014	.096	.048	.014	.092	.046	.013	.087	.045	.013	.083	.043	.013	
8.0	.094	.046	.013	.092	.045	.013	.088	.044	.013	.084	.043	.012	.080	.041	.012	
9.0	.090	.043	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012	.078	.039	.011	
10.0	.086	.041	.011	.084	.041	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.014	
3.0	.136	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.078	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.055	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
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 Temperature:25.3DEG  
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γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

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UGR(Unified Glare Rating) Table

Test:U:220.8V I:0.0537A P:10.69W PF:0.9023 Lamp Flux:717.195x1 lm		
NAME: K1X55-9W-930-24D	TYPE:Spotlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	12.2	12.9	12.4	13.1	13.2	12.1	12.7	12.3	12.9	13.0
3H	12.1	12.7	12.3	12.9	13.1	11.9	12.6	12.2	12.7	12.9
4H	12.0	12.6	12.3	12.8	13.0	11.8	12.4	12.1	12.7	12.9
6H	11.9	12.5	12.2	12.7	13.0	11.8	12.3	12.0	12.6	12.8
8H	11.9	12.4	12.2	12.7	12.9	11.7	12.3	12.0	12.5	12.8
12H	11.8	12.4	12.1	12.6	12.9	11.7	12.2	12.0	12.5	12.7
4H 2H	12.0	12.6	12.3	12.8	13.1	11.9	12.5	12.1	12.7	12.9
3H	11.9	12.4	12.2	12.7	12.9	11.7	12.2	12.0	12.5	12.8
4H	11.8	12.3	12.1	12.5	12.8	11.6	12.1	11.9	12.4	12.7
6H	11.7	12.1	12.0	12.4	12.8	11.5	11.9	11.9	12.3	12.6
8H	11.6	12.0	12.0	12.4	12.7	11.5	11.9	11.8	12.2	12.6
12H	11.6	11.9	12.0	12.3	12.7	11.4	11.8	11.8	12.1	12.5
8H 4H	11.6	12.0	12.0	12.4	12.7	11.5	11.9	11.8	12.2	12.6
6H	11.5	11.8	11.9	12.2	12.6	11.3	11.7	11.8	12.1	12.5
8H	11.4	11.7	11.9	12.2	12.6	11.3	11.6	11.7	12.0	12.4
12H	11.4	11.6	11.8	12.1	12.5	11.2	11.5	11.7	11.9	12.4
12H 4H	11.6	11.9	12.0	12.3	12.7	11.4	11.8	11.8	12.1	12.5
6H	11.4	11.7	11.9	12.2	12.6	11.3	11.6	11.7	12.0	12.4
8H	11.4	11.6	11.8	12.1	12.5	11.2	11.5	11.7	11.9	12.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 8.4					+ 2.6 / - 7.9				
1.5H	+ 4.3 / - 5.8					+ 4.0 / - 5.5				
2.0H	+ 5.4 / - 7.7					+ 5.2 / - 7.7				

CIE Pub.117 Corrected 717.2 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.2)

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γ Range: 0 - 90DEG  
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 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
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UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0537A P:10.69W PF:0.9023 Lamp Flux:717.195x1 lm		
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MFR.: NEKO LIGHTING AG		

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	84	80	89	84	80	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	113	112	113	112	110	109	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

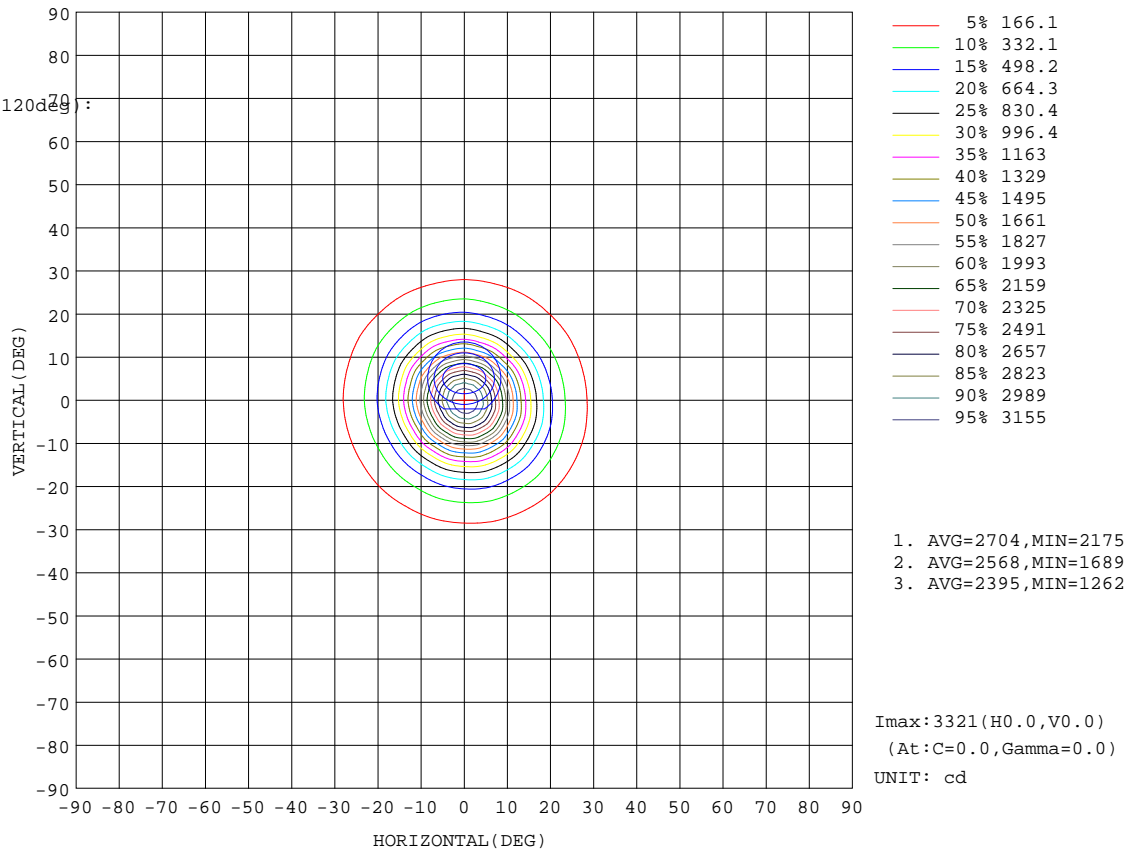
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SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

706.9 lm  
%lum = 98.6%  
%lamp = 98.6%

Conical surface Flux(120deg):

716.21 lm  
%lum = 99.9%  
%lamp = 99.9%



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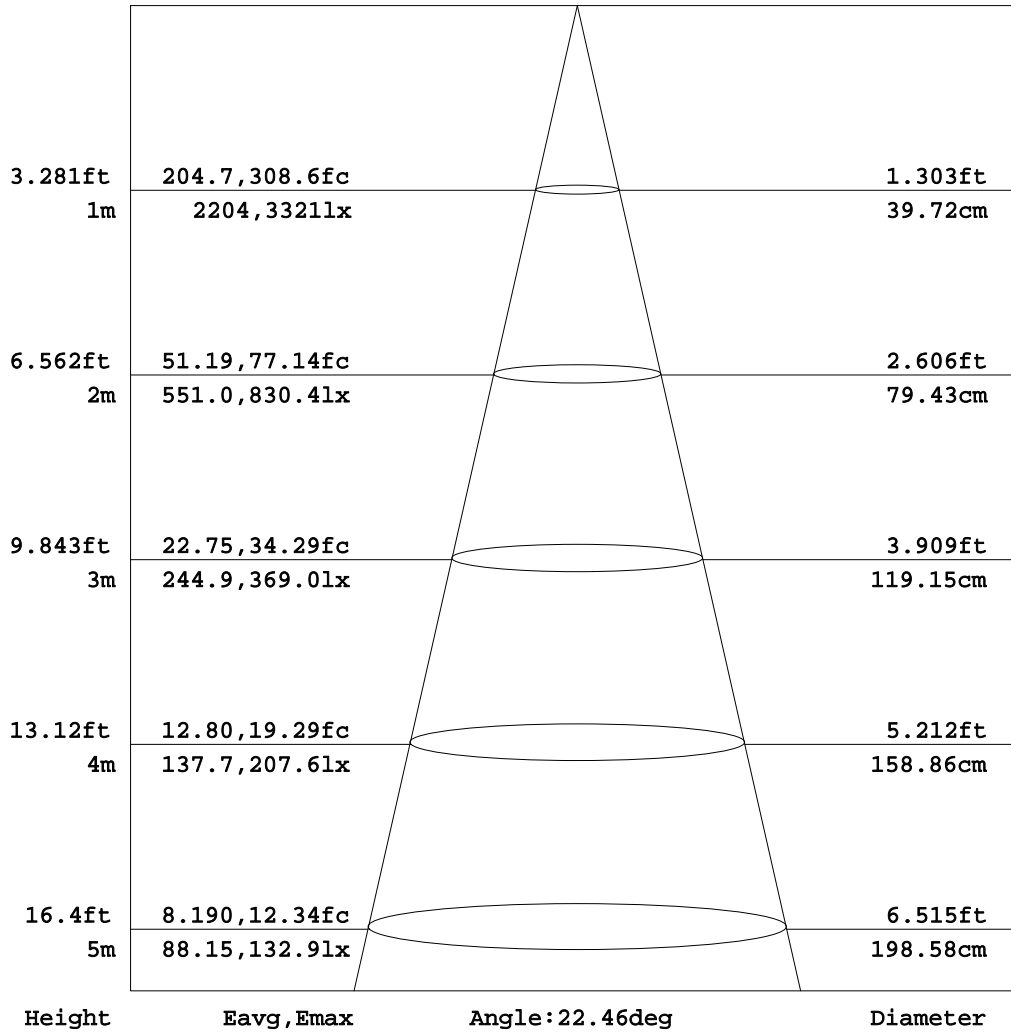


GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

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SPEC.:3000K	DIM.: φ88mm*H125mm	
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Flux out:312.8 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

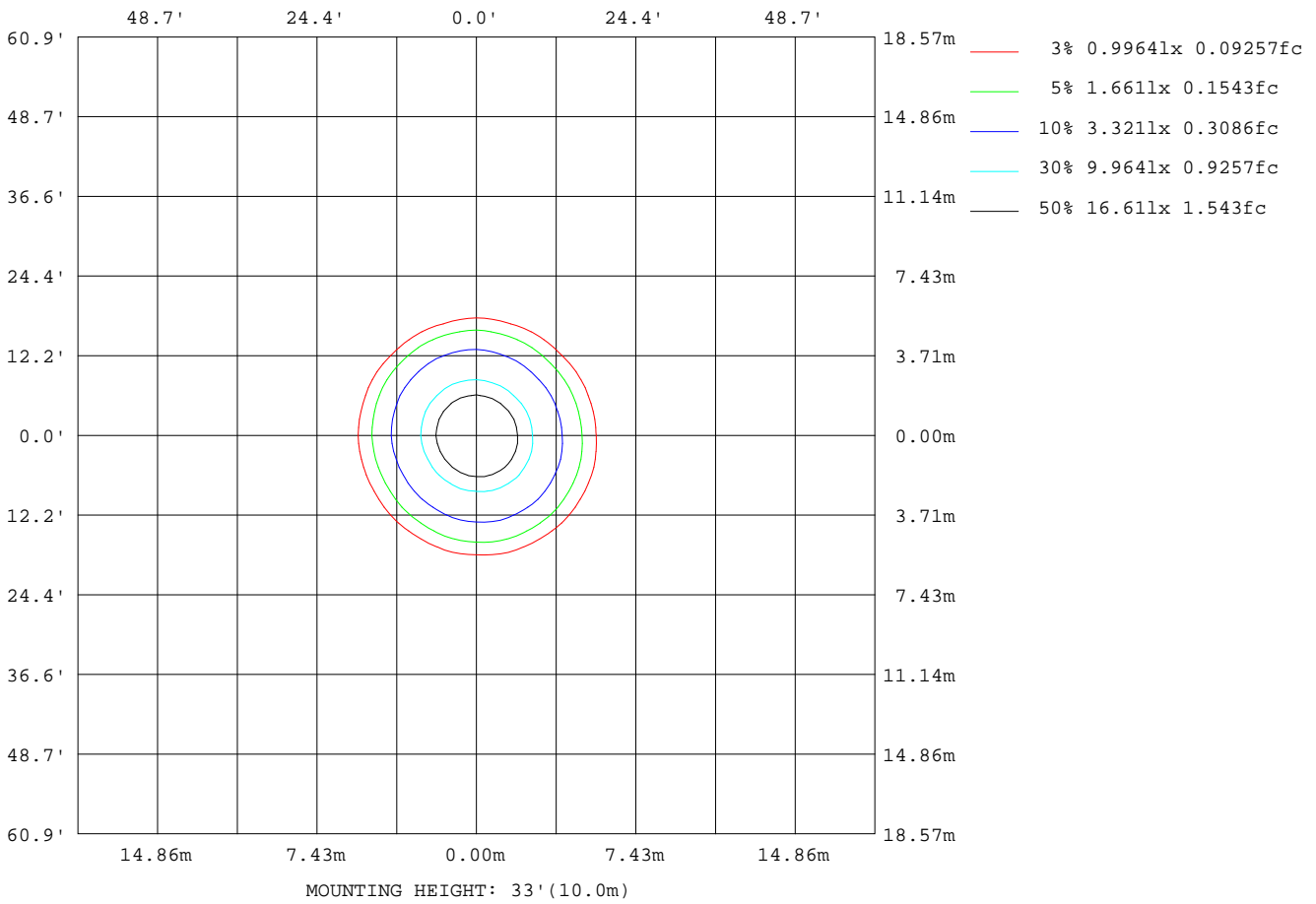
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**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ISOLUX DIAGRAM**

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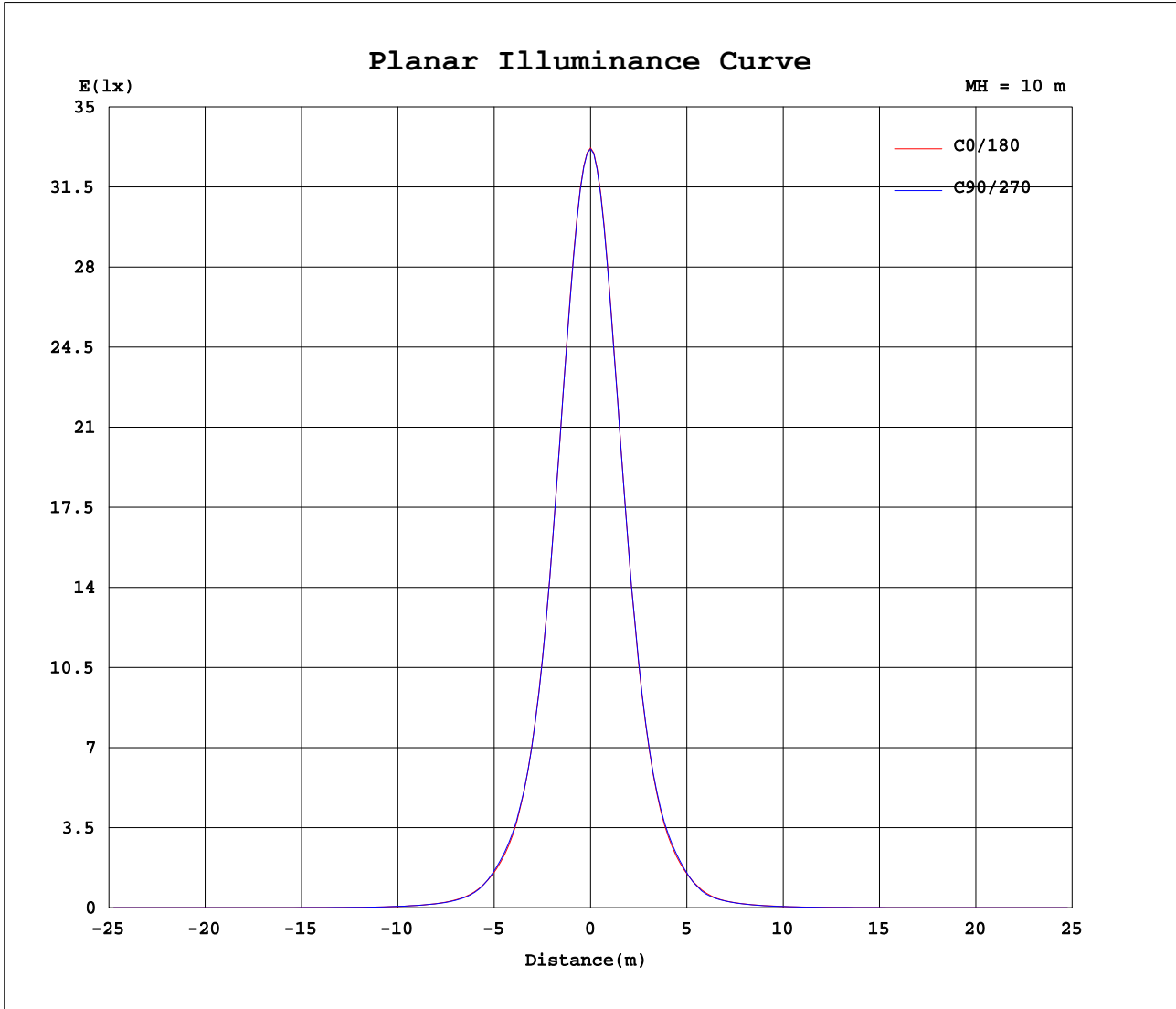


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GONIOPHOTOMETERS SYSTEM TEST REPORT

Planar Illuminance Curve



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 C Interval: 15.0DEG  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

### GONIOPHOTOMETERS SYSTEM TEST REPORT

#### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0537A P:10.69W PF:0.9023 Lamp Flux:717.195x1 lm		
NAME: K1X55-9W-930-24D	TYPE:Spotlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	3321	3320	3319	3319	3319	3318	3317	3317	3318	3317	3316	3317	3321	3320	3319	3319	3319	3318	3317
5	2889	2929	2923	2945	2919	2921	2878	2878	2839	2840	2808	2822	2849	2826	2848	2827	2846	2822	2840
10	1921	1983	1985	2021	1985	1985	1924	1913	1855	1859	1822	1845	1884	1867	1904	1878	1900	1863	1882
15	1049	1101	1107	1135	1106	1097	1044	1029	984	986	963	992	1030	1030	1063	1051	1068	1036	1038
20	531	557	572	584	576	564	538	518	491	486	477	488	513	518	537	537	543	532	524
25	269	286	292	300	296	295	282	272	255	250	243	249	260	262	270	268	274	268	271
30	131	141	141	144	137	137	128	126	118	118	117	118	120	118	118	111	110	108	113
35	63.3	64.9	65.6	64.9	63.1	61.7	60.4	58.8	56.3	56.3	54.5	54.8	55.4	53.4	53.5	52.2	53.1	52.6	53.5
40	33.4	34.6	34.5	34.8	34.0	33.9	32.7	32.2	30.8	30.5	29.8	30.1	30.4	29.6	29.9	29.0	29.2	28.9	29.4
45	18.0	18.5	18.5	18.8	18.6	18.9	18.2	17.9	17.0	16.8	16.6	16.8	17.1	16.7	16.8	16.2	16.2	15.9	16.5
50	8.69	8.87	8.79	8.87	8.99	9.36	9.13	8.79	8.14	8.08	8.20	8.73	9.07	8.77	8.73	8.38	8.27	8.11	8.34
55	4.43	4.51	4.61	4.72	4.81	5.01	4.82	4.62	4.24	4.26	4.35	4.69	4.89	4.61	4.70	4.68	4.65	4.47	4.59
60	2.03	2.08	2.28	2.35	2.34	2.28	2.09	2.00	1.94	2.04	2.12	2.26	2.34	2.17	2.25	2.28	2.25	2.09	2.14
65	0.76	0.71	0.79	0.85	0.81	0.77	0.70	0.73	0.68	0.66	0.69	0.73	0.72	0.61	0.64	0.64	0.63	0.56	0.64
70	0.17	0.15	0.17	0.16	0.19	0.17	0.18	0.16	0.17	0.15	0.16	0.14	0.13	0.15	0.14	0.17	0.15	0.17	0.16
75	0.10	0.08	0.11	0.09	0.12	0.10	0.12	0.09	0.11	0.08	0.10	0.08	0.08	0.10	0.08	0.11	0.09	0.11	0.09
80	0.07	0.05	0.07	0.05	0.07	0.06	0.07	0.05	0.07	0.05	0.06	0.04	0.04	0.06	0.04	0.07	0.04	0.07	0.04
85	0.04	0.03	0.05	0.03	0.04	0.04	0.05	0.03	0.04	0.03	0.04	0.03	0.03	0.04	0.02	0.04	0.02	0.04	0.03
90	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02

 C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-08-30

 γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0537A P:10.69W PF:0.9023 Lamp Flux:717.195x1 lm		
NAME: K1X55-9W-930-24D	TYPE:Spotlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345													
0	3317	3318	3317	3316	3317													
5	2819	2846	2837	2879	2880													
10	1843	1868	1852	1904	1907													
15	1000	1004	982	1017	1028													
20	502	500	488	502	509													
25	260	256	249	257	260													
30	113	116	118	127	128													
35	52.9	54.4	55.9	59.8	62.1													
40	29.3	30.2	30.6	32.4	33.1													
45	16.6	17.1	17.2	18.0	18.0													
50	8.43	8.64	8.52	8.74	8.78													
55	4.65	4.75	4.54	4.55	4.53													
60	2.18	2.25	2.18	2.16	2.13													
65	0.69	0.73	0.71	0.80	0.85													
70	0.17	0.15	0.16	0.14	0.16													
75	0.11	0.08	0.10	0.08	0.09													
80	0.07	0.04	0.06	0.04	0.06													
85	0.04	0.03	0.04	0.02	0.04													
90	0.02	0.02	0.02	0.02	0.02													

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-08-30

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity:52%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	3321	3320	3319	3319	3319	3318	3317	3317	3318	3317
3.0	3159	3182	3175	3190	3176	3180	3153	3154	3128	3132
6.0	2717	2765	2762	2786	2758	2758	2709	2706	2660	2661
9.0	2126	2190	2189	2226	2188	2191	2127	2121	2060	2065
12.0	1532	1589	1592	1627	1593	1590	1530	1519	1466	1470
15.0	1049	1101	1107	1135	1106	1097	1044	1029	983.9	985.6
18.0	697.4	740.4	746.7	769.0	750.0	740.8	698.5	681.2	647.3	645.3
21.0	456.5	485.6	493.9	509.7	498.5	493.7	467.7	455.1	429.9	425.1
24.0	306.3	325.8	332.2	342.4	336.7	335.2	320.1	310.2	291.8	286.8
27.0	204.6	219.0	223.5	229.6	224.3	223.6	212.1	204.7	190.8	187.4
30.0	131.4	140.9	141.1	143.9	136.9	137.0	127.8	126.1	117.6	117.9
33.0	83.06	86.58	87.10	86.53	82.50	81.52	79.11	77.23	74.31	74.81
36.0	54.69	56.52	56.37	56.66	54.77	54.13	52.23	51.59	49.50	49.25
39.0	37.87	39.05	38.96	39.30	38.31	38.01	36.75	36.17	34.72	34.26
42.0	25.91	26.73	26.85	27.21	26.69	26.69	25.78	25.31	24.31	24.06
45.0	17.98	18.46	18.48	18.80	18.63	18.85	18.22	17.91	17.01	16.76
48.0	11.39	11.72	11.63	11.82	11.81	12.17	11.79	11.47	10.70	10.58
51.0	7.672	7.801	7.722	7.817	7.965	8.324	8.126	7.760	7.155	7.098
54.0	5.114	5.209	5.269	5.389	5.519	5.771	5.572	5.312	4.853	4.862
57.0	3.266	3.335	3.506	3.599	3.614	3.699	3.514	3.361	3.117	3.182
60.0	2.030	2.081	2.284	2.354	2.337	2.279	2.086	2.000	1.938	2.039
63.0	1.232	1.196	1.350	1.423	1.407	1.300	1.171	1.144	1.153	1.178
66.0	0.5447	0.4841	0.5450	0.6105	0.5691	0.5516	0.5116	0.5451	0.4767	0.4404
69.0	0.1818	0.1682	0.1928	0.1835	0.2038	0.1878	0.2037	0.1835	0.1905	0.1682
72.0	0.1336	0.1179	0.1445	0.1310	0.1554	0.1333	0.1533	0.1310	0.1423	0.1158
75.0	0.1007	0.0809	0.1094	0.0918	0.1160	0.0961	0.1160	0.0939	0.1116	0.0808
78.0	0.0766	0.0611	0.0810	0.0656	0.0854	0.0677	0.0854	0.0634	0.0767	0.0590
81.0	0.0613	0.0393	0.0656	0.0415	0.0657	0.0480	0.0678	0.0459	0.0635	0.0393
84.0	0.0460	0.0306	0.0503	0.0350	0.0525	0.0350	0.0526	0.0328	0.0482	0.0328
87.0	0.0350	0.0262	0.0416	0.0306	0.0372	0.0262	0.0394	0.0306	0.0394	0.0241
90.0	0.0262	0.0241	0.0262	0.0262	0.0262	0.0262	0.0262	0.0262	0.0262	0.0241
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3316	3317	3320	3319	3319	3319	3318	3317	3317	3317
3.0	3109	3119	3138	3117	3129	3115	3132	3116	3130	3116
6.0	2624	2644	2673	2652	2678	2654	2675	2645	2664	2639
9.0	2026	2049	2083	2065	2099	2073	2096	2059	2079	2046
12.0	1436	1465	1503	1495	1530	1512	1532	1499	1508	1468
15.0	963.4	991.9	1030	1030	1063	1051	1068	1036	1038	999.5
18.0	629.9	649.7	682.2	687.2	711.3	703.1	717.1	693.8	689.3	660.6
21.0	416.1	426.5	445.8	449.8	466.6	463.6	472.4	459.6	458.6	439.2
24.0	279.5	285.4	297.6	299.8	311.5	308.7	315.4	308.8	310.5	297.9
27.0	181.5	186.7	195.3	195.3	200.5	195.5	198.8	193.6	197.6	190.5
30.0	116.7	118.0	120.4	117.8	118.1	110.7	110.0	108.1	113.3	112.6
33.0	73.44	73.16	73.55	70.67	70.89	67.97	67.95	67.34	69.81	69.35
36.0	47.79	48.03	48.73	47.16	47.19	46.28	47.04	46.73	47.38	46.78
39.0	33.54	33.79	34.20	33.37	33.57	32.75	33.13	32.87	33.29	33.03
42.0	23.54	23.65	23.87	23.34	23.52	22.80	22.80	22.47	23.03	23.11
45.0	16.58	16.81	17.08	16.66	16.76	16.21	16.18	15.86	16.46	16.59
48.0	10.63	11.07	11.41	11.06	11.06	10.61	10.48	10.23	10.60	10.69
51.0	7.223	7.756	8.131	7.815	7.777	7.486	7.391	7.250	7.437	7.523
54.0	4.971	5.347	5.599	5.316	5.369	5.297	5.256	5.105	5.232	5.308
57.0	3.283	3.553	3.696	3.474	3.561	3.592	3.530	3.365	3.419	3.490
60.0	2.120	2.258	2.335	2.165	2.252	2.281	2.248	2.093	2.139	2.176
63.0	1.226	1.270	1.284	1.173	1.216	1.212	1.194	1.101	1.162	1.216
66.0	0.4553	0.4836	0.4679	0.3694	0.4115	0.4065	0.4093	0.3624	0.4312	0.4546
69.0	0.1730	0.1486	0.1507	0.1663	0.1551	0.1816	0.1682	0.1904	0.1704	0.1860
72.0	0.1314	0.1049	0.1092	0.1269	0.1114	0.1422	0.1266	0.1445	0.1266	0.1379
75.0	0.1006	0.0765	0.0764	0.0963	0.0808	0.1072	0.0873	0.1094	0.0895	0.1051
78.0	0.0766	0.0568	0.0546	0.0744	0.0611	0.0809	0.0589	0.0810	0.0611	0.0766
81.0	0.0612	0.0372	0.0371	0.0569	0.0350	0.0569	0.0393	0.0591	0.0415	0.0569
84.0	0.0460	0.0328	0.0306	0.0394	0.0327	0.0416	0.0284	0.0416	0.0306	0.0416
87.0	0.0350	0.0262	0.0175	0.0306	0.0153	0.0263	0.0153	0.0263	0.0175	0.0285
90.0	0.0262	0.0262	0.0175	0.0175	0.0153	0.0175	0.0153	0.0175	0.0175	0.0175
G/C	300.0	315.0	330.0	345.0						
0.0	3318	3317	3316	3317						
3.0	3135	3130	3154	3154						
6.0	2668	2659	2703	2708						
9.0	2072	2056	2109	2113						
12.0	1484	1466	1510	1516						
15.0	1004	982.0	1017	1028						
18.0	661.9	646.1	665.3	675.8						
21.0	435.7	424.8	436.9	443.4						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-08-30

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Photometric Data Table [cd]

24.0	294.2	285.2	294.2	297.5
27.0	191.4	187.0	194.4	197.5
30.0	116.0	117.7	126.6	128.0
33.0	71.25	74.28	80.22	81.88
36.0	47.97	49.07	52.26	53.48
39.0	33.81	34.40	36.40	37.34
42.0	23.94	24.30	25.55	25.89
45.0	17.14	17.21	17.98	17.99
48.0	11.06	11.00	11.44	11.49
51.0	7.704	7.552	7.714	7.737
54.0	5.400	5.206	5.242	5.221
57.0	3.567	3.415	3.384	3.367
60.0	2.252	2.180	2.163	2.125
63.0	1.282	1.251	1.317	1.332
66.0	0.4921	0.4656	0.5618	0.6099
69.0	0.1660	0.1817	0.1616	0.1773
72.0	0.1136	0.1335	0.1114	0.1313
75.0	0.0786	0.0963	0.0786	0.0941
78.0	0.0589	0.0744	0.0502	0.0700
81.0	0.0393	0.0547	0.0328	0.0525
84.0	0.0306	0.0416	0.0262	0.0416
87.0	0.0175	0.0285	0.0153	0.0285
90.0	0.0153	0.0175	0.0153	0.0175

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-08-30

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks: