

LED Downlight Kenzo Series K1X70-18W-840-15D

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Light Output Ratio:	100.0%	
Luminaire Power:	20.58 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: 2017-05-19

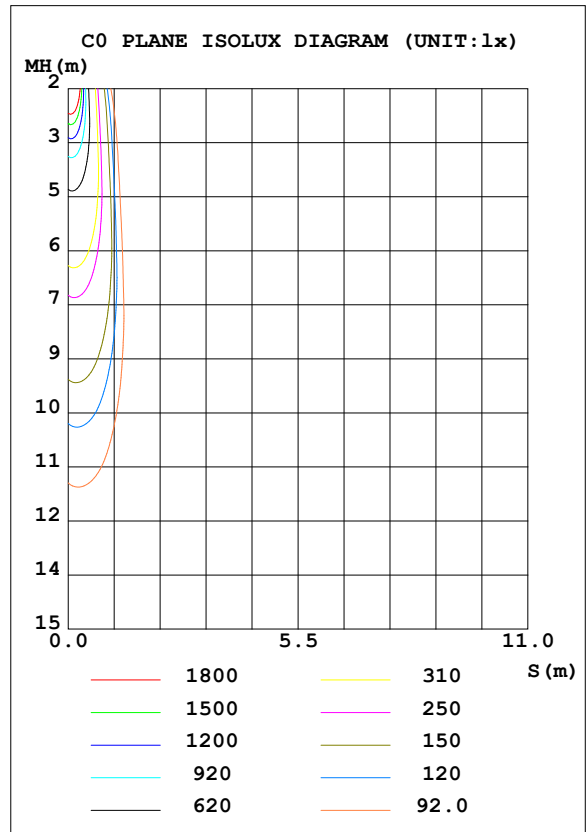
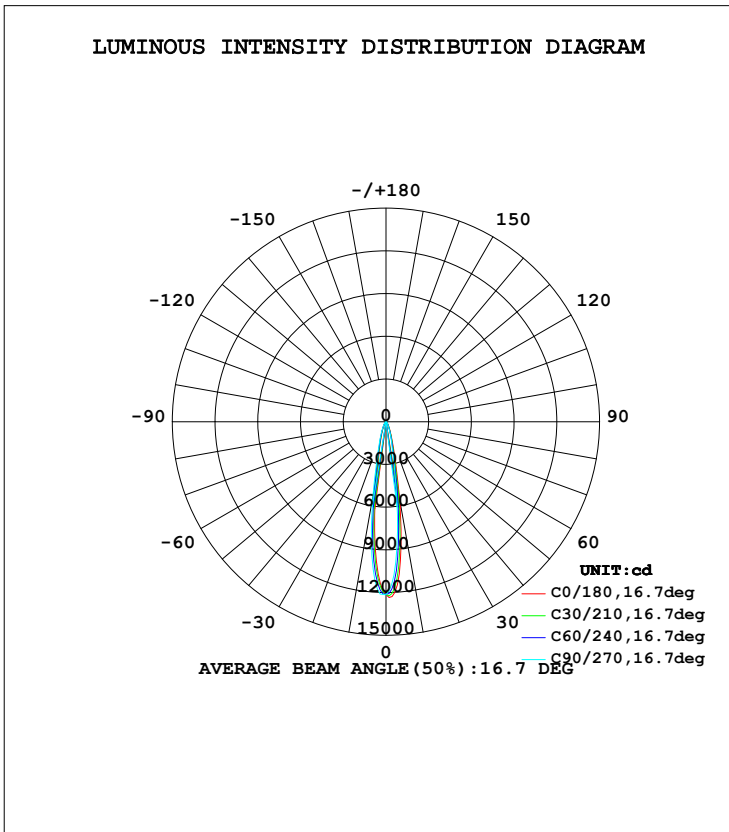
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0993A P:20.58W PF:0.9392 Lamp Flux:1894.26x1 lm		
NAME: K1X70-18W-840-15D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.05 lm/W			
MODEL	CITIZEN-4000K	I <sub>max</sub> (cd)	12390	S/MH (C0/180)	0.26
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1894.3	η UP, DN (C0-180)	0.0, 46.8
NOMINAL FLUX (lm)	1894.26	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.2
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  
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 Temperature: 25.3DEG  
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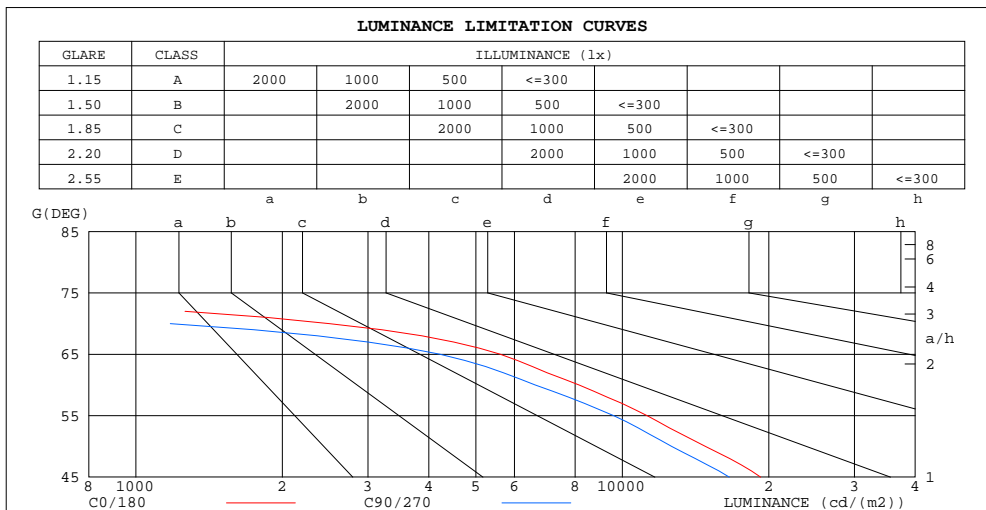
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
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**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	551.2	461.8	361.1	332.4	368.0	420.8	526.4	578.2	0- 10	747.6	747.6	39.5,39.5
20	113.1	100.5	87.03	83.34	89.16	98.79	113.5	118.1	10- 20	563.3	1311	69.2,69.2
30	38.35	34.35	30.37	29.41	31.23	34.24	38.54	40.29	20- 30	273.0	1584	83.6,83.6
40	17.60	16.39	14.99	14.54	15.17	16.26	17.66	18.09	30- 40	147.0	1731	91.4,91.4
50	9.048	8.535	7.714	7.299	7.526	8.079	8.768	9.201	40- 50	92.62	1824	96.3,96.3
60	3.869	3.649	3.144	2.929	2.997	3.254	3.665	3.937	50- 60	50.31	1874	98.9,98.9
70	0.8121	0.6481	0.3822	0.2691	0.3160	0.4442	0.7005	0.8704	60- 70	18.92	1893	99.9,99.9
80	0.0296	0.0251	0.0234	0.0201	0.0210	0.0258	0.0275	0.0304	70- 80	1.321	1894	100,100
90	0.0092	0.0081	0.0085	0.0085	0.0081	0.0074	0.0096	0.0098	80- 90	0.1615	1894	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: $\times 10\text{cd}$									UNIT: lm		



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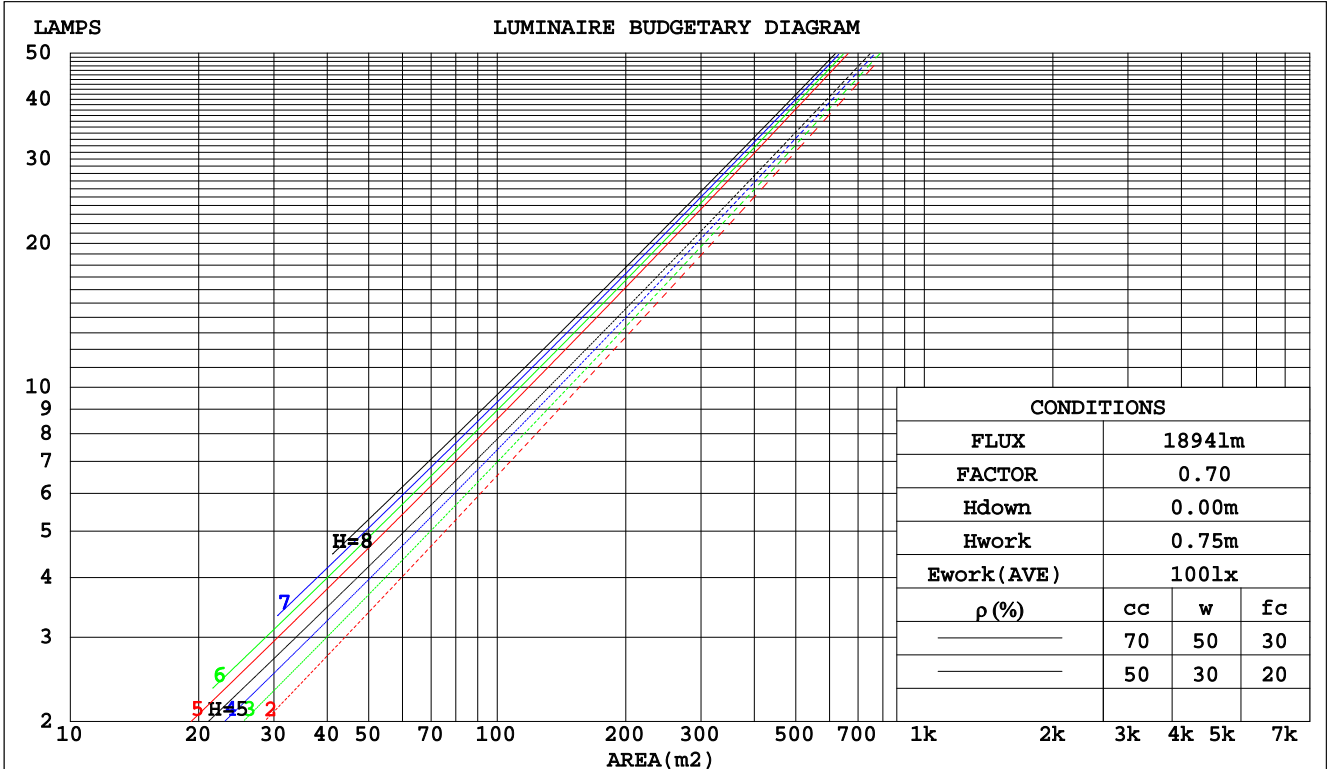
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GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0993A P:20.58W PF:0.9392 Lamp Flux:1894.26x1 lm		
NAME: K1X70-18W-840-15D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.87
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.88	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.85	.82	.80	.84	.81	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.83	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.76	.73	.80	.75	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10.0	.78	.73	.71	.77	.73	.70	.77	.73	.70	.76	.73	.70	.75	.72	.70	.69



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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

WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020	
2.0	.140	.077	.024	.135	.074	.023	.124	.069	.021	.115	.064	.020	.106	.060	.019	
3.0	.132	.070	.021	.127	.068	.020	.118	.064	.019	.110	.060	.019	.103	.057	.018	
4.0	.124	.064	.019	.120	.063	.019	.112	.060	.018	.105	.057	.017	.099	.054	.016	
5.0	.116	.059	.017	.113	.058	.017	.107	.056	.016	.101	.053	.016	.095	.051	.015	
6.0	.110	.055	.016	.107	.054	.016	.101	.052	.015	.096	.050	.015	.092	.048	.014	
7.0	.104	.051	.015	.101	.050	.014	.097	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.098	.048	.014	.096	.047	.013	.092	.046	.013	.088	.045	.013	.084	.043	.013	
9.0	.094	.045	.013	.092	.045	.013	.088	.044	.012	.085	.042	.012	.081	.041	.012	
10.0	.089	.043	.012	.088	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.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	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.099	.074	.056	.068	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.061	.040	.080	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.087	.056	.035	.075	.048	.030	.052	.034	.021	.030	.020	.013	.010	.007	.004	
10.0	.082	.051	.030	.071	.044	.027	.049	.031	.019	.029	.018	.011	.009	.006	.004	

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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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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SPEC.:4000K	DIM.: φ110mm*H138mm	
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	16.4	17.1	16.6	17.3	17.5	15.7	16.4	15.9	16.6	16.7
3H	16.5	17.2	16.7	17.4	17.6	15.7	16.4	15.9	16.6	16.7
4H	16.4	17.1	16.7	17.3	17.5	15.6	16.3	15.9	16.5	16.7
6H	16.3	16.9	16.6	17.2	17.4	15.5	16.1	15.8	16.4	16.6
8H	16.3	16.9	16.6	17.1	17.4	15.5	16.1	15.8	16.3	16.6
12H	16.2	16.8	16.6	17.1	17.3	15.4	16.0	15.7	16.3	16.5
4H 2H	16.5	17.1	16.7	17.3	17.5	15.8	16.4	16.1	16.6	16.9
3H	16.5	17.1	16.8	17.4	17.6	15.8	16.3	16.1	16.6	16.9
4H	16.4	16.9	16.8	17.2	17.5	15.7	16.2	16.0	16.5	16.8
6H	16.3	16.8	16.7	17.1	17.5	15.6	16.0	16.0	16.4	16.7
8H	16.3	16.7	16.7	17.1	17.4	15.5	16.0	15.9	16.3	16.7
12H	16.2	16.6	16.6	17.0	17.4	15.5	15.9	15.9	16.2	16.6
8H 4H	16.3	16.7	16.7	17.1	17.4	15.5	16.0	15.9	16.3	16.7
6H	16.2	16.5	16.6	16.9	17.3	15.4	15.8	15.9	16.2	16.6
8H	16.1	16.4	16.6	16.8	17.3	15.4	15.7	15.8	16.1	16.5
12H	16.1	16.3	16.5	16.8	17.2	15.3	15.6	15.8	16.0	16.5
12H 4H	16.2	16.6	16.6	17.0	17.4	15.5	15.9	15.9	16.2	16.6
6H	16.1	16.4	16.6	16.8	17.3	15.4	15.7	15.8	16.1	16.5
8H	16.1	16.3	16.5	16.8	17.2	15.3	15.6	15.8	16.0	16.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 2.1					+ 1.4 / - 2.4				
1.5H	+ 1.5 / - 1.2					+ 1.2 / - 1.1				
2.0H	+ 2.6 / - 3.0					+ 2.6 / - 3.0				

CIE Pub.117 Corrected 1894 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.2)

C Range: 0 - 360DEG  
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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:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0993A P:20.58W PF:0.9392 Lamp Flux:1894.26x1 lm		
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SPEC.:4000K	DIM.: φ110mm*H138mm	
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	86	79	76	86	79	75	85	79	75	72
0.80	94	88	84	93	87	84	92	87	83	79
1.00	98	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	95	92	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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.:4000K	DIM.: φ110mm*H138mm	
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Conical surface Flux(90deg):

1782.9 lm

%lum = 94.1%

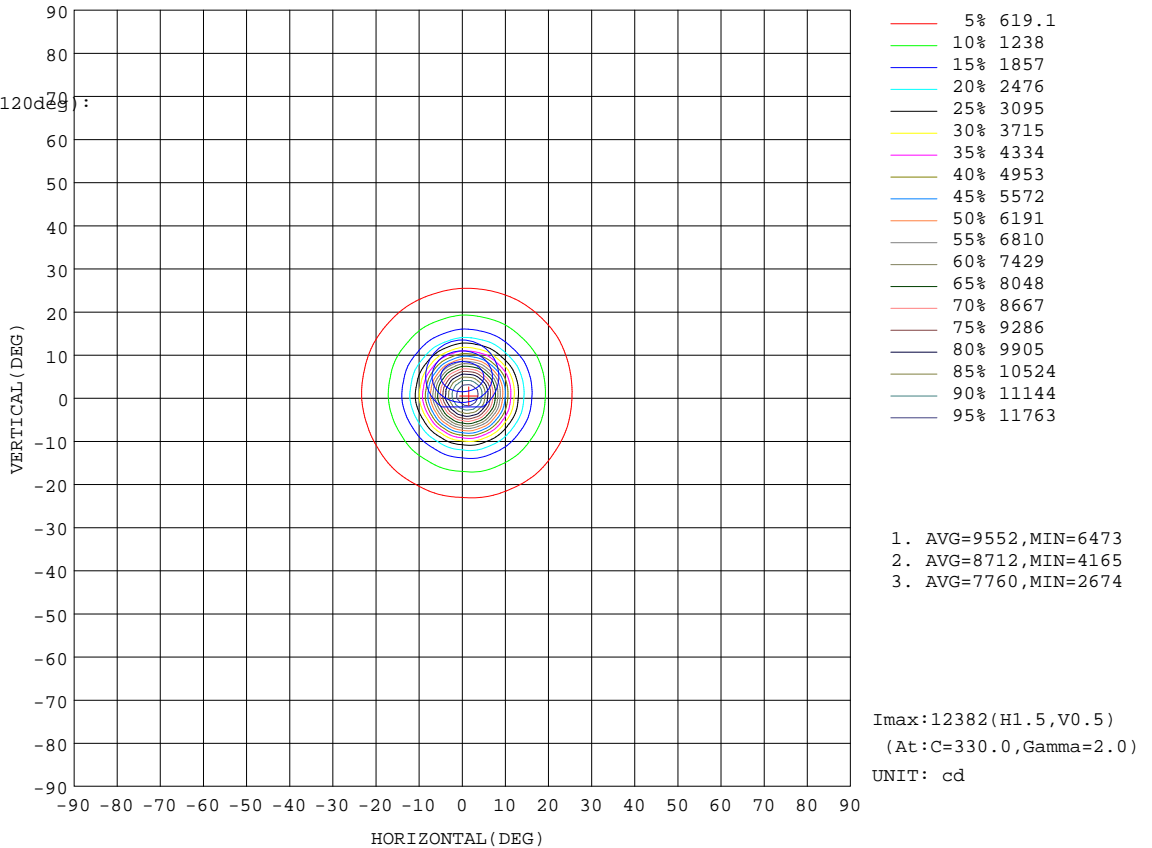
%lamp = 94.1%

Conical surface Flux(120deg):

1873.9 lm

%lum = 98.9%

%lamp = 98.9%



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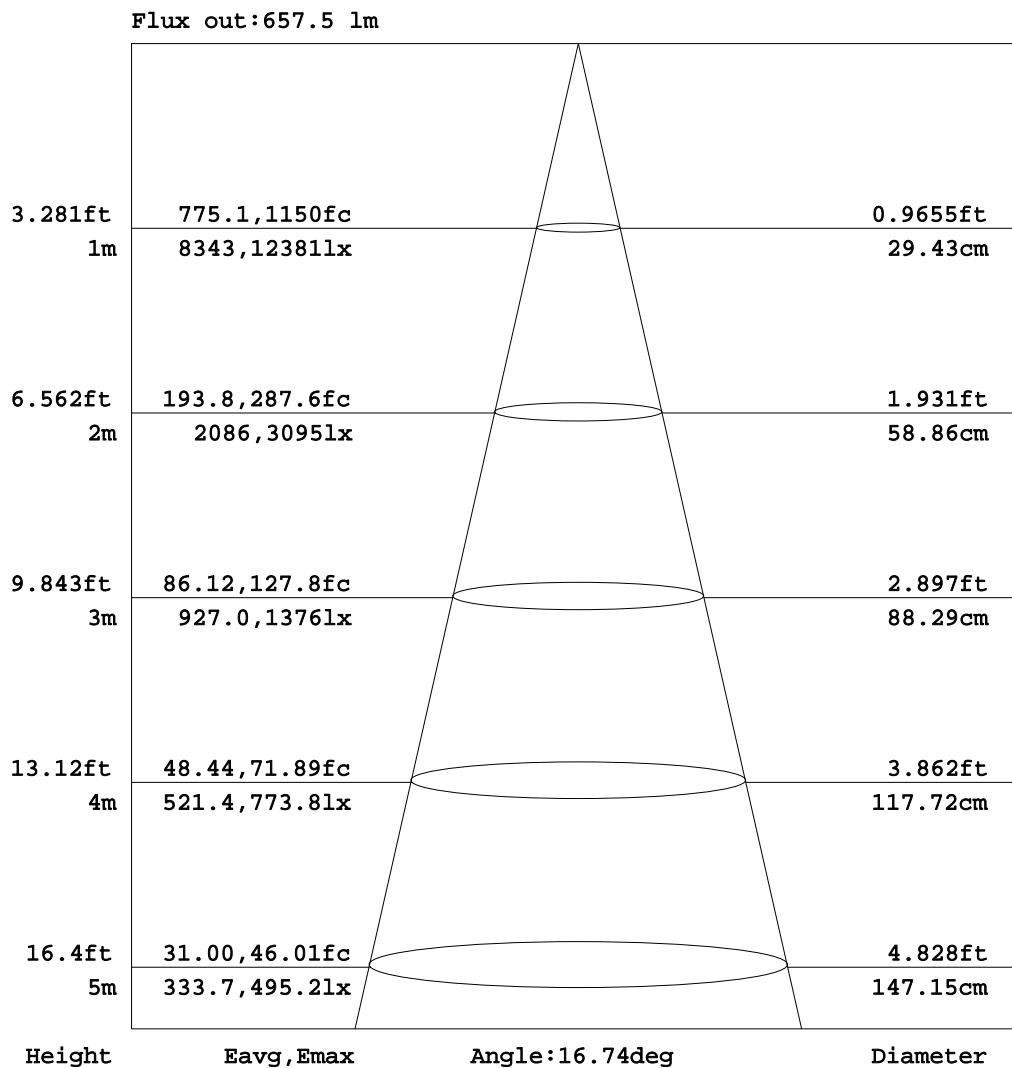
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GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

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

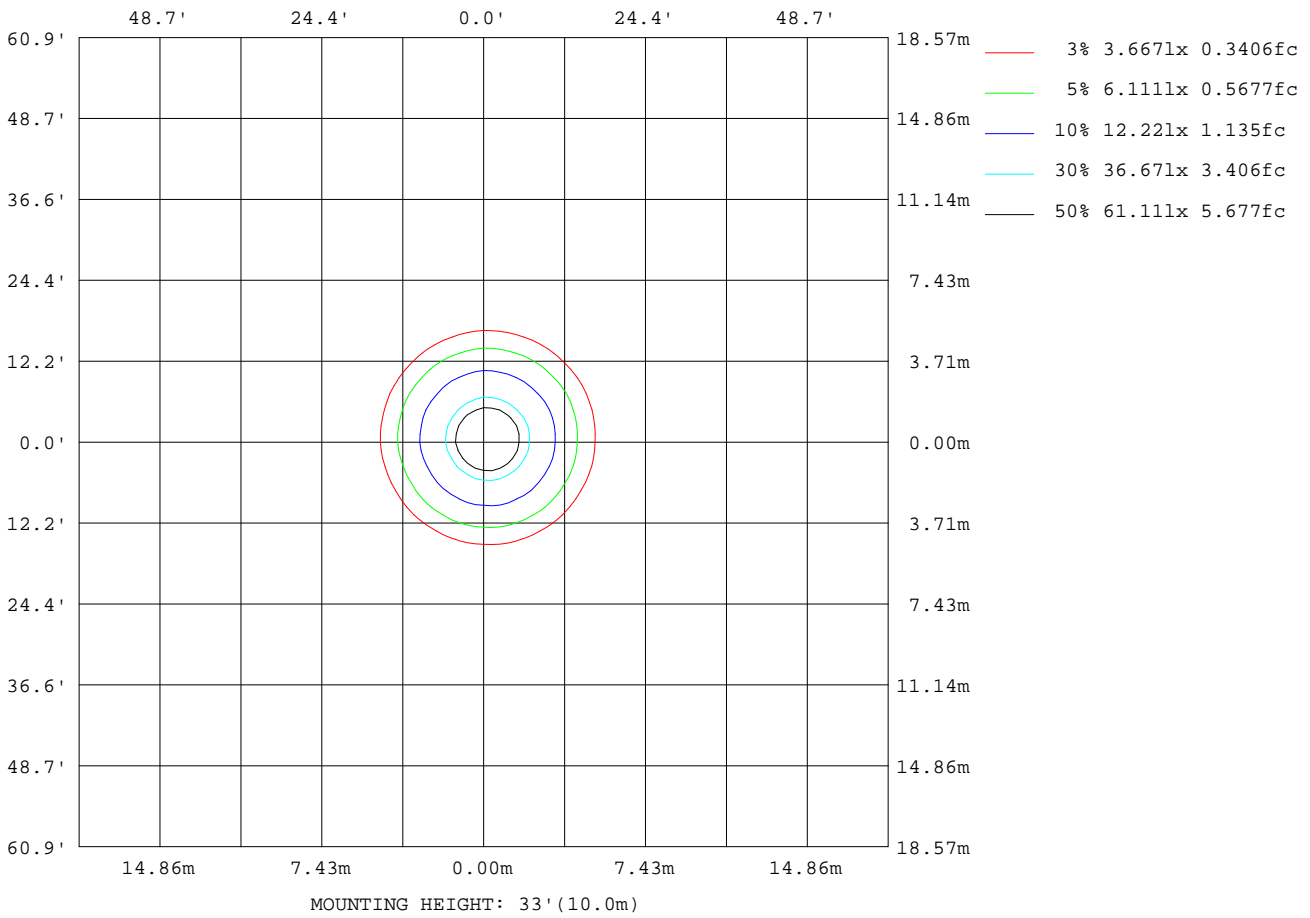
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ISOLUX DIAGRAM

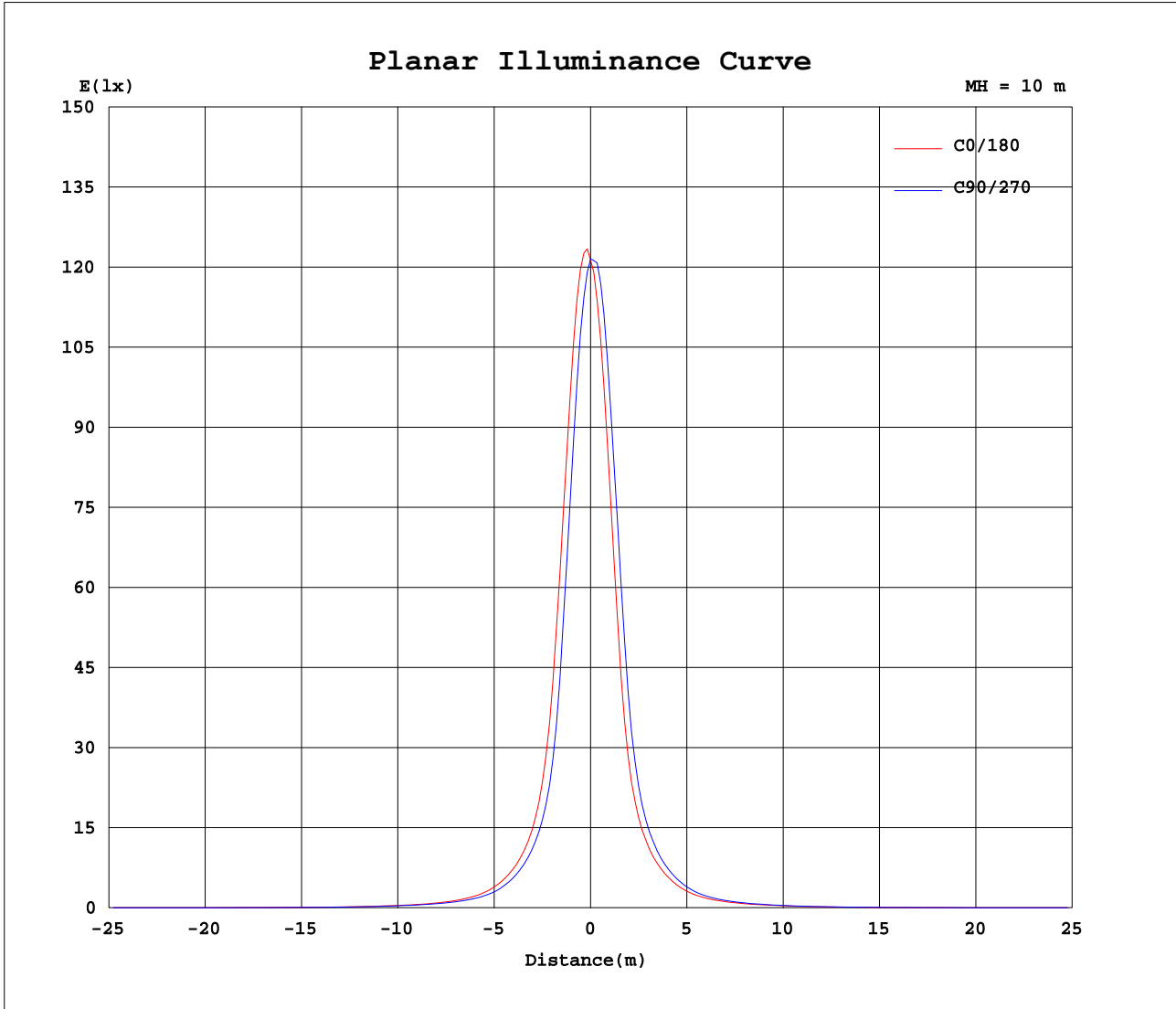
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Remarks:

Planar Illuminance Curve



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GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.0993A P:20.58W PF:0.9392 Lamp Flux:1894.26x1 lm		
NAME: K1X70-18W-840-15D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1213	1219	1211	1218	1209	1209	1215	1209	1215	1209	1215	1211	1213	1219	1211	1218	1209	1209	1215
5	1072	1063	1024	1002	953	930	887	874	844	847	833	852	880	887	924	941	981	1001	1040
10	551	531	494	462	417	396	361	351	329	332	326	343	368	374	405	421	463	482	526
15	220	213	196	188	175	169	158	155	149	150	148	154	162	165	176	180	194	201	215
20	113	110	104	100	94.9	91.8	87.0	85.7	83.2	83.3	82.3	84.8	89.2	91.3	96.1	98.8	105	108	113
25	64.6	63.0	59.1	57.2	54.3	52.1	49.6	48.8	47.5	47.7	47.4	48.8	51.2	52.5	55.2	57.2	60.2	62.1	65.2
30	38.3	37.4	35.5	34.3	32.6	31.7	30.4	29.9	29.3	29.4	29.3	30.0	31.2	31.9	33.3	34.2	36.0	36.9	38.5
35	24.9	24.5	23.5	22.9	21.9	21.4	20.7	20.4	20.0	20.1	20.0	20.4	21.1	21.4	22.3	22.8	23.7	24.2	25.1
40	17.6	17.3	16.8	16.4	15.8	15.5	15.0	14.8	14.5	14.5	14.5	14.7	15.2	15.4	16.0	16.3	16.8	17.1	17.7
45	12.9	12.8	12.5	12.2	11.7	11.5	11.1	10.9	10.7	10.6	10.5	10.7	11.0	11.2	11.8	11.9	12.3	12.5	12.9
50	9.05	8.95	8.79	8.54	8.18	7.97	7.71	7.56	7.37	7.30	7.21	7.29	7.53	7.65	8.00	8.08	8.28	8.45	8.77
55	6.13	6.09	5.99	5.86	5.59	5.45	5.23	5.14	4.96	4.89	4.77	4.82	5.02	5.08	5.36	5.39	5.56	5.64	5.90
60	3.87	3.85	3.76	3.65	3.43	3.31	3.14	3.08	2.97	2.93	2.85	2.87	3.00	3.04	3.22	3.25	3.39	3.46	3.67
65	2.25	2.23	2.14	2.06	1.90	1.81	1.69	1.64	1.55	1.52	1.44	1.46	1.57	1.61	1.75	1.79	1.91	1.97	2.12
70	0.81	0.79	0.70	0.65	0.53	0.48	0.38	0.35	0.28	0.27	0.25	0.27	0.32	0.33	0.40	0.44	0.54	0.60	0.70
75	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.06
80	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03
85	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-19

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	12132	12188	12114	12184	12089	12086	12154	12088	12148	12095
3.0	11997	11923	11682	11542	11236	11081	10776	10687	10445	10467
6.0	9774	9665	9228	8972	8461	8210	7767	7619	7321	7344
9.0	6526	6386	5902	5650	5203	4923	4478	4365	4076	4130
12.0	3712	3590	3265	3087	2803	2677	2468	2396	2274	2296
15.0	2196	2126	1960	1880	1751	1687	1582	1547	1487	1496
18.0	1442	1419	1313	1272	1197	1160	1096	1077	1041	1045
21.0	1007	981.9	924.8	895.8	845.9	819.1	776.6	765.4	743.1	745.2
24.0	720.6	703.8	662.7	639.9	603.1	583.4	557.9	545.4	530.2	532.9
27.0	520.2	507.2	478.4	461.2	435.7	421.8	402.3	395.6	385.7	388.0
30.0	383.5	374.4	355.2	343.5	326.4	316.7	303.7	299.1	292.6	294.1
33.0	293.0	286.5	273.8	265.6	254.2	247.5	238.4	234.8	230.5	231.1
36.0	231.6	227.4	218.6	213.0	204.7	200.1	193.2	190.5	186.7	187.2
39.0	188.3	185.2	179.3	174.7	168.3	164.6	159.3	157.2	154.1	154.4
42.0	155.0	153.1	149.3	145.6	140.3	137.6	133.3	131.6	128.9	129.0
45.0	129.2	127.9	125.1	121.6	117.3	114.7	111.4	109.4	107.0	106.4
48.0	105.7	104.3	102.4	99.31	95.30	92.85	89.77	87.95	85.68	84.88
51.0	83.64	82.82	81.43	79.09	75.92	73.94	71.59	70.22	68.51	67.81
54.0	66.20	65.83	64.93	63.26	60.52	59.19	56.94	56.11	54.30	53.70
57.0	51.64	51.50	50.46	49.18	46.66	45.26	43.23	42.34	40.89	40.29
60.0	38.69	38.52	37.59	36.49	34.28	33.09	31.44	30.78	29.75	29.29
63.0	28.17	28.00	27.23	26.34	24.68	23.79	22.57	22.09	21.22	20.88
66.0	19.63	19.43	18.48	17.69	16.09	15.29	14.01	13.53	12.57	12.31
69.0	10.90	10.65	9.703	9.000	7.657	7.062	5.949	5.497	4.708	4.588
72.0	3.703	3.535	2.853	2.437	1.762	1.517	0.9792	0.8507	0.7943	0.8004
75.0	0.6985	0.6743	0.5862	0.5413	0.4720	0.4259	0.4078	0.3802	0.3854	0.3692
78.0	0.3656	0.3517	0.3459	0.3211	0.3196	0.2927	0.2934	0.2708	0.2759	0.2599
81.0	0.2627	0.2403	0.2518	0.2206	0.2277	0.1987	0.2080	0.1834	0.1948	0.1747
84.0	0.1861	0.1659	0.1752	0.1463	0.1577	0.1332	0.1424	0.1158	0.1314	0.1135
87.0	0.1336	0.1049	0.1205	0.0961	0.1095	0.0809	0.1007	0.0831	0.0941	0.0853
90.0	0.0918	0.0831	0.0853	0.0809	0.0809	0.0809	0.0853	0.0853	0.0853	0.0853
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	12153	12109	12132	12188	12114	12184	12089	12086	12154	12088
3.0	10341	10476	10684	10722	10966	11077	11355	11492	11748	11864
6.0	7219	7416	7721	7818	8198	8393	8836	9049	9475	9641
9.0	4027	4241	4509	4589	4953	5203	5611	5820	6313	6480
12.0	2274	2376	2527	2579	2771	2879	3133	3266	3545	3631
15.0	1481	1535	1620	1649	1755	1805	1941	2010	2147	2171
18.0	1031	1063	1120	1144	1207	1240	1333	1364	1455	1452
21.0	736.3	759.0	799.1	818.1	861.5	883.8	937.3	965.9	1014	1024
24.0	528.2	544.1	573.2	590.3	618.4	635.3	673.1	693.5	729.2	738.1
27.0	386.2	396.8	415.1	424.6	445.9	458.9	484.7	499.0	523.4	531.8
30.0	293.1	300.3	312.3	318.6	333.3	342.4	359.6	369.2	385.4	390.8
33.0	230.6	235.6	243.9	248.4	258.5	264.7	276.4	283.5	294.4	297.9
36.0	186.4	190.3	196.6	199.7	207.4	211.6	220.0	224.7	232.9	235.0
39.0	153.7	156.6	161.3	163.8	170.3	173.0	179.0	182.7	188.7	190.3
42.0	128.2	130.4	134.7	136.4	142.6	144.3	148.6	151.2	155.8	156.8
45.0	105.4	106.7	110.3	112.2	117.9	119.4	122.6	125.1	128.9	130.2
48.0	83.84	84.85	87.66	89.18	93.69	94.71	97.28	99.42	103.1	104.9
51.0	67.01	67.64	69.83	70.95	74.07	74.65	76.39	77.89	80.83	82.46
54.0	52.46	53.15	55.07	55.80	58.61	58.91	60.53	61.52	63.91	65.30
57.0	39.20	39.62	41.26	41.88	44.16	44.52	45.96	46.84	49.18	50.42
60.0	28.46	28.75	29.97	30.40	32.21	32.54	33.93	34.64	36.65	37.63
63.0	20.04	20.25	21.40	21.83	23.31	23.67	24.78	25.37	26.85	27.50
66.0	11.62	11.87	12.81	13.19	14.51	14.98	16.22	16.87	18.40	18.92
69.0	4.188	4.550	5.060	5.241	6.148	6.612	7.700	8.380	9.688	10.25
72.0	0.7748	0.8006	0.8327	0.8440	1.149	1.340	1.875	2.295	3.033	3.412
75.0	0.3833	0.3780	0.3735	0.3986	0.4062	0.4384	0.4954	0.5461	0.6260	0.6800
78.0	0.2780	0.2708	0.2686	0.2932	0.2904	0.3195	0.3167	0.3458	0.3472	0.3699
81.0	0.1927	0.1857	0.1834	0.2123	0.2031	0.2341	0.2228	0.2495	0.2445	0.2692
84.0	0.1336	0.1223	0.1288	0.1532	0.1375	0.1685	0.1529	0.1795	0.1681	0.1905
87.0	0.0942	0.0853	0.0830	0.1072	0.0917	0.1204	0.1048	0.1335	0.1179	0.1379
90.0	0.0853	0.0853	0.0809	0.0787	0.0743	0.0743	0.0743	0.0984	0.0962	0.0984
G/C	300.0	315.0	330.0	345.0						
0.0	12148	12095	12153	12109						
3.0	12068	12111	12085	12159						
6.0	9974	10012	10196	10062						
9.0	6818	6833	7031	6874						
12.0	3859	3881	4046	3935						
15.0	2273	2272	2357	2299						
18.0	1498	1496	1542	1503						
21.0	1056	1056	1078	1048						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-05-19

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	762.0	763.4	775.1	750.5
27.0	548.7	553.4	557.3	544.3
30.0	402.1	402.9	407.6	397.0
33.0	305.1	305.6	308.8	301.9
36.0	239.9	239.9	242.7	238.3
39.0	193.5	193.7	196.2	193.2
42.0	159.3	159.0	160.7	158.3
45.0	132.5	132.3	133.8	131.9
48.0	107.3	107.8	109.1	107.8
51.0	84.45	84.89	86.15	85.22
54.0	66.93	67.19	68.11	67.35
57.0	52.23	52.46	53.45	52.66
60.0	39.22	39.37	40.27	39.55
63.0	28.57	28.73	29.42	28.87
66.0	19.95	20.21	20.90	20.42
69.0	11.17	11.51	12.24	11.79
72.0	4.002	4.121	4.537	4.352
75.0	0.7348	0.7407	0.7611	0.7465
78.0	0.3626	0.3765	0.3647	0.3721
81.0	0.2577	0.2735	0.2598	0.2692
84.0	0.1769	0.1948	0.1768	0.1883
87.0	0.1201	0.1401	0.1179	0.1357
90.0	0.0940	0.0984	0.0918	0.0896

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-19

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: