

LED Downlight Kenzo Series K1X70-18W-830-15D



Light Output Ratio:	100.0%	
Luminaire Power:	20.62 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

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

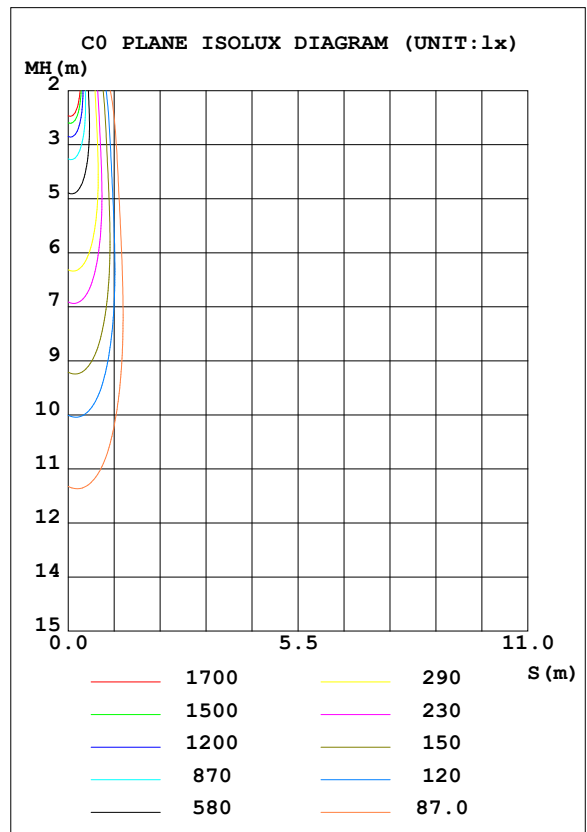
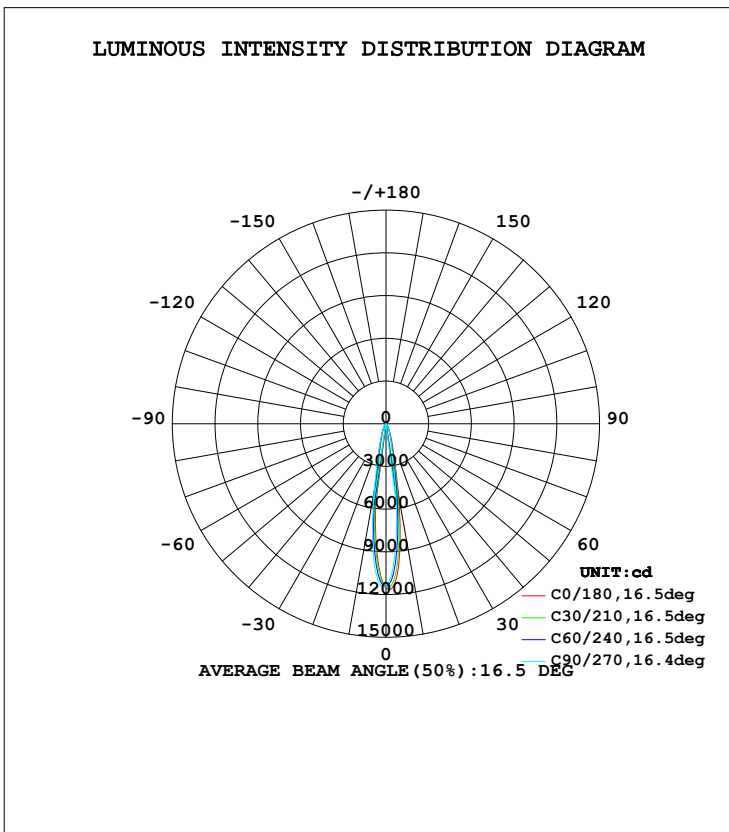
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.7V I:0.0994A P:20.62W PF:0.9398 Lamp Flux:1766.04x1 lm		
NAME: K1X70-18W-830-15D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ110mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.66 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	11663	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)	1766.0	η UP, DN (C0-180)	0.0, 47.0
NOMINAL FLUX (lm)	1766.04	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.0
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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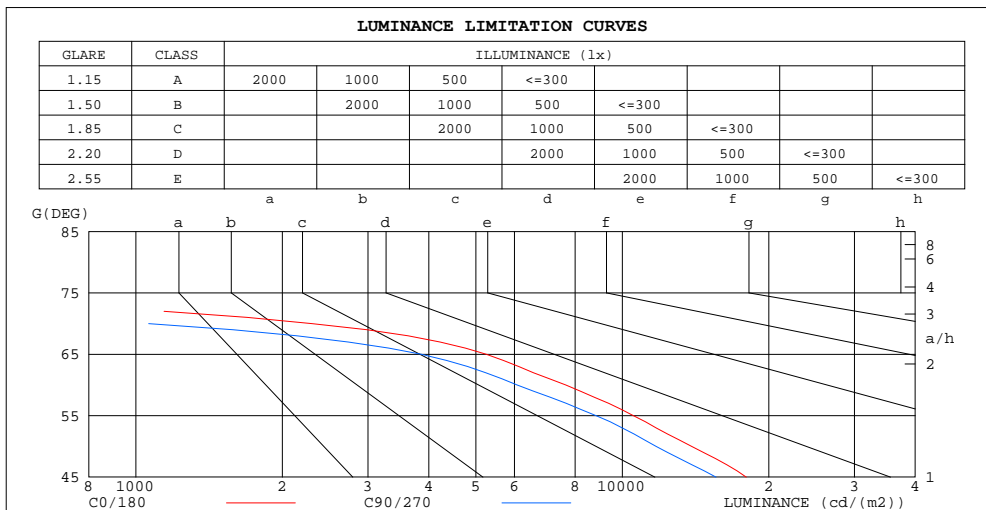
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	505.9	428.8	336.2	313.2	343.6	386.9	479.5	528.0	0- 10	695.8	695.8	39.4,39.4
20	103.3	93.70	82.52	79.96	86.33	93.40	103.5	107.6	10- 20	521.1	1217	68.9,68.9
30	35.33	32.13	29.00	28.61	30.52	32.71	35.68	36.66	20- 30	255.6	1472	83.4,83.4
40	16.38	15.32	14.27	14.09	14.87	15.61	16.58	16.76	30- 40	138.9	1611	91.2,91.2
50	8.474	7.830	7.163	6.892	7.315	7.812	8.519	8.744	40- 50	87.72	1699	96.2,96.2
60	3.632	3.306	2.886	2.731	2.896	3.171	3.614	3.768	50- 60	47.66	1747	98.9,98.9
70	0.7484	0.5772	0.3451	0.2514	0.3183	0.4660	0.7144	0.8332	60- 70	17.96	1765	99.9,99.9
80	0.0278	0.0232	0.0232	0.0205	0.0218	0.0243	0.0249	0.0267	70- 80	1.251	1766	100,100
90	0.0092	0.0085	0.0081	0.0083	0.0087	0.0072	0.0072	0.0074	80- 90	0.1510	1766	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		



LUMINANCE $\text{cd}/(\text{m}^2)$		
G (DEG)	C0/180	C90/270
85	190	161
80	169	141
75	241	160
70	2304	1062
65	5250	3860
60	7648	6077
55	10540	8830
50	13879	11733
45	17978	15575

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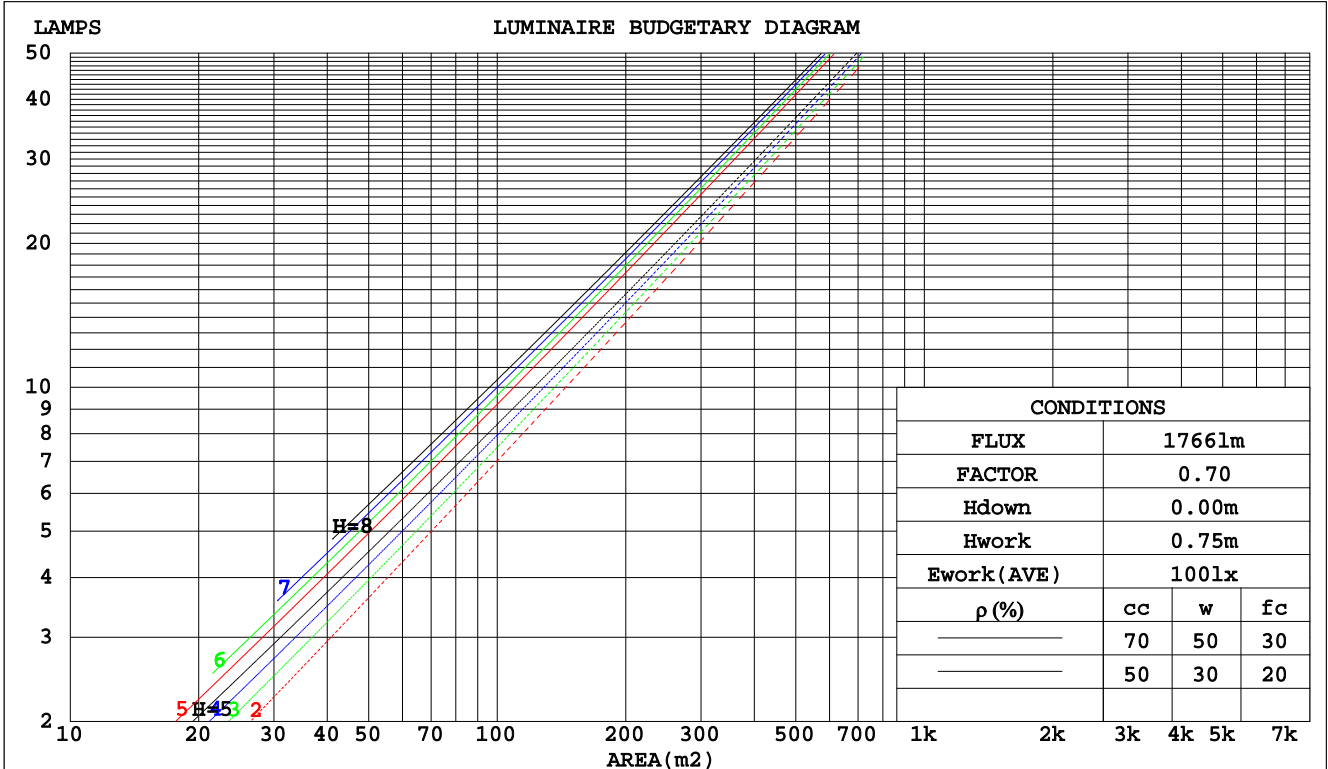
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	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	.98	.97	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.91	.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	.82	.87	.84	.82	.81
6.0	.89	.84	.81	.88	.84	.80	.87	.83	.80	.85	.82	.79	.84	.81	.79	.78
7.0	.85	.81	.78	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.76	.73	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.71
10.0	.78	.73	.70	.77	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.69



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WEC AND CCEC

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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	.143	.081	.026	.130	.075	.024	.119	.068	.022	.108	.063	.020	
2.0	.141	.077	.024	.135	.074	.023	.125	.069	.022	.115	.065	.020	.106	.060	.019	
3.0	.132	.070	.021	.127	.068	.021	.119	.064	.020	.111	.061	.019	.103	.057	.018	
4.0	.124	.064	.019	.120	.063	.019	.113	.060	.018	.106	.057	.017	.099	.054	.016	
5.0	.117	.059	.017	.113	.058	.017	.107	.056	.016	.101	.053	.016	.096	.051	.015	
6.0	.110	.055	.016	.107	.054	.016	.102	.052	.015	.097	.050	.015	.092	.048	.014	
7.0	.104	.051	.015	.102	.051	.014	.097	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.099	.048	.014	.097	.048	.013	.092	.046	.013	.088	.045	.013	.085	.044	.013	
9.0	.094	.045	.013	.092	.045	.013	.088	.044	.012	.085	.043	.012	.082	.041	.012	
10.0	.090	.043	.012	.088	.042	.012	.085	.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	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.028	.034	.024	.017	.011	.008	.006	
8.0	.093	.062	.040	.080	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.087	.056	.035	.075	.049	.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
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 Humidity:52%
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UGR(Unified Glare Rating) Table

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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	16.2	16.9	16.4	17.1	17.2	15.4	16.2	15.6	16.3	16.5
3H	16.2	16.9	16.5	17.1	17.3	15.4	16.1	15.7	16.3	16.5
4H	16.2	16.8	16.4	17.0	17.2	15.3	16.0	15.6	16.2	16.4
6H	16.1	16.7	16.4	16.9	17.2	15.2	15.9	15.5	16.1	16.3
8H	16.0	16.6	16.3	16.9	17.1	15.2	15.8	15.5	16.0	16.3
12H	16.0	16.6	16.3	16.8	17.1	15.2	15.7	15.5	16.0	16.3
4H 2H	16.2	16.8	16.5	17.1	17.3	15.5	16.2	15.8	16.4	16.6
3H	16.3	16.8	16.6	17.1	17.4	15.5	16.1	15.8	16.3	16.6
4H	16.2	16.7	16.5	17.0	17.3	15.4	15.9	15.7	16.2	16.5
6H	16.1	16.5	16.4	16.9	17.2	15.3	15.8	15.7	16.1	16.4
8H	16.0	16.4	16.4	16.8	17.2	15.2	15.7	15.6	16.0	16.4
12H	16.0	16.4	16.4	16.7	17.1	15.2	15.6	15.6	15.9	16.3
8H 4H	16.0	16.4	16.4	16.8	17.2	15.2	15.7	15.6	16.0	16.4
6H	15.9	16.3	16.3	16.7	17.1	15.1	15.5	15.6	15.9	16.3
8H	15.9	16.2	16.3	16.6	17.0	15.1	15.4	15.5	15.8	16.2
12H	15.8	16.1	16.3	16.5	17.0	15.0	15.3	15.5	15.7	16.2
12H 4H	16.0	16.4	16.4	16.7	17.1	15.2	15.6	15.6	16.0	16.3
6H	15.9	16.2	16.3	16.6	17.0	15.1	15.4	15.5	15.8	16.2
8H	15.8	16.1	16.3	16.5	17.0	15.0	15.3	15.5	15.7	16.2
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 2.1					+ 1.4 / - 2.5				
1.5H	+ 1.4 / - 1.3					+ 1.2 / - 1.2				
2.0H	+ 2.7 / - 3.0					+ 2.7 / - 3.1				

CIE Pub.117 Corrected 1766 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

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γ Range: 0 - 90DEG
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UTILIZATION FACTORS TABLE

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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	75	85	79	75	85	79	75	71
0.80	94	88	84	93	87	84	92	87	83	79
1.00	98	93	89	97	92	89	96	92	88	84
1.25	103	97	94	101	97	93	99	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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Conical surface Flux(90deg):

1660.5 lm

%lum = 94.0%

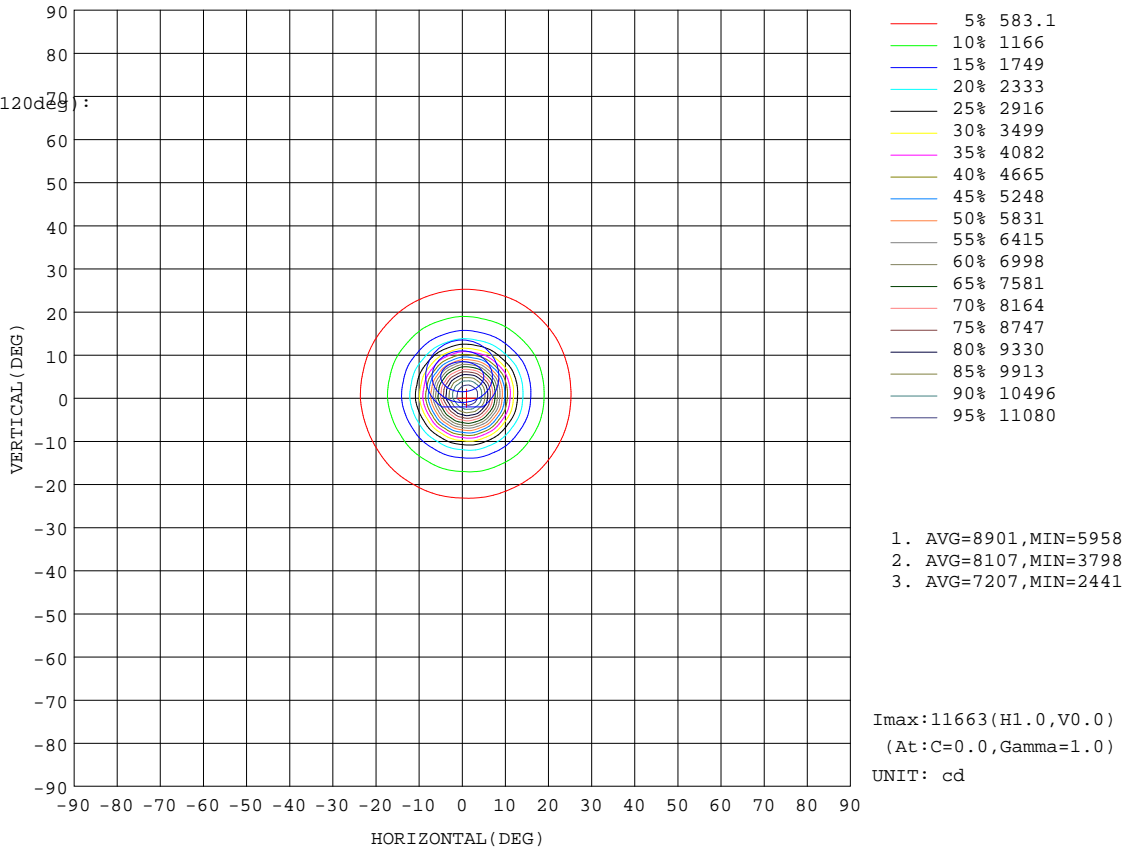
%lamp = 94.0%

Conical surface Flux(120deg):

1746.7 lm

%lum = 98.9%

%lamp = 98.9%



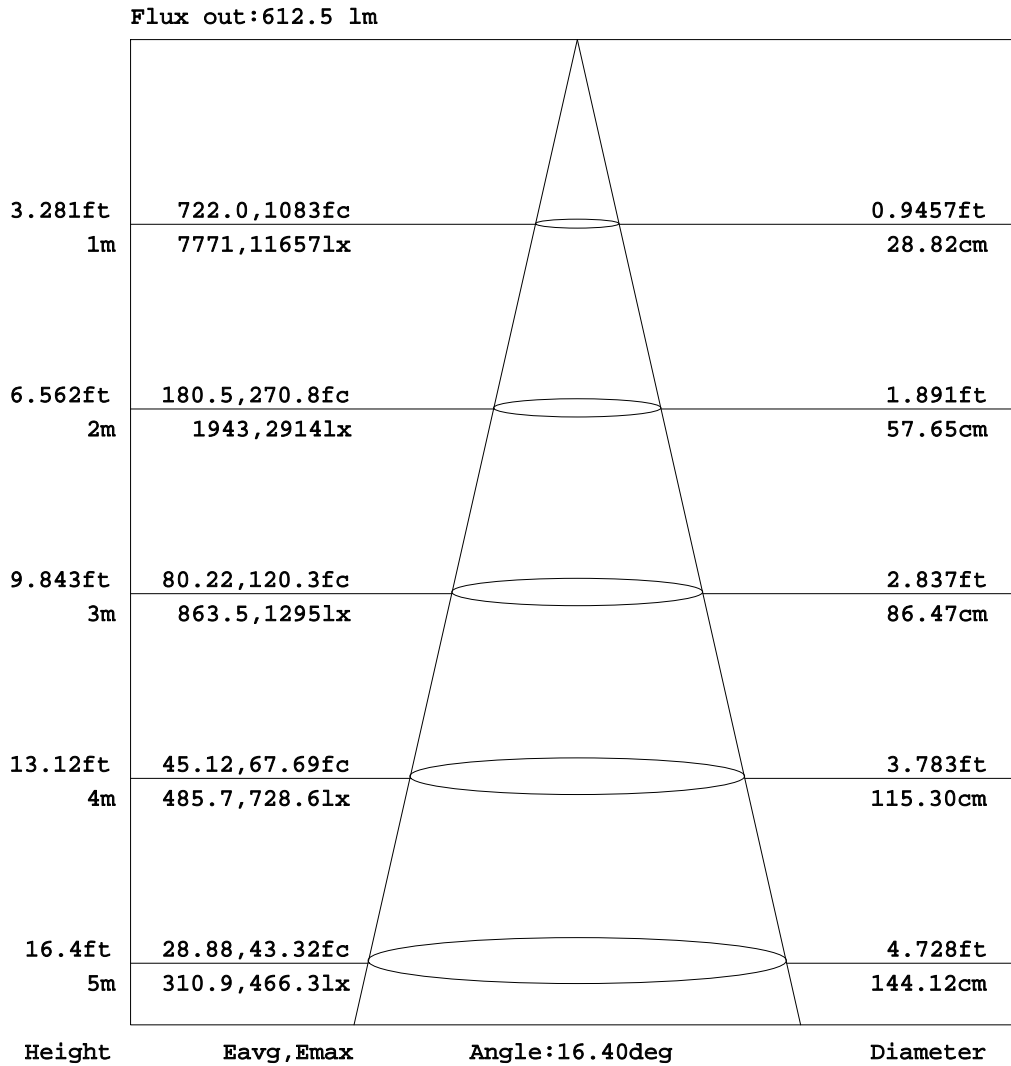
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AAI Figure

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

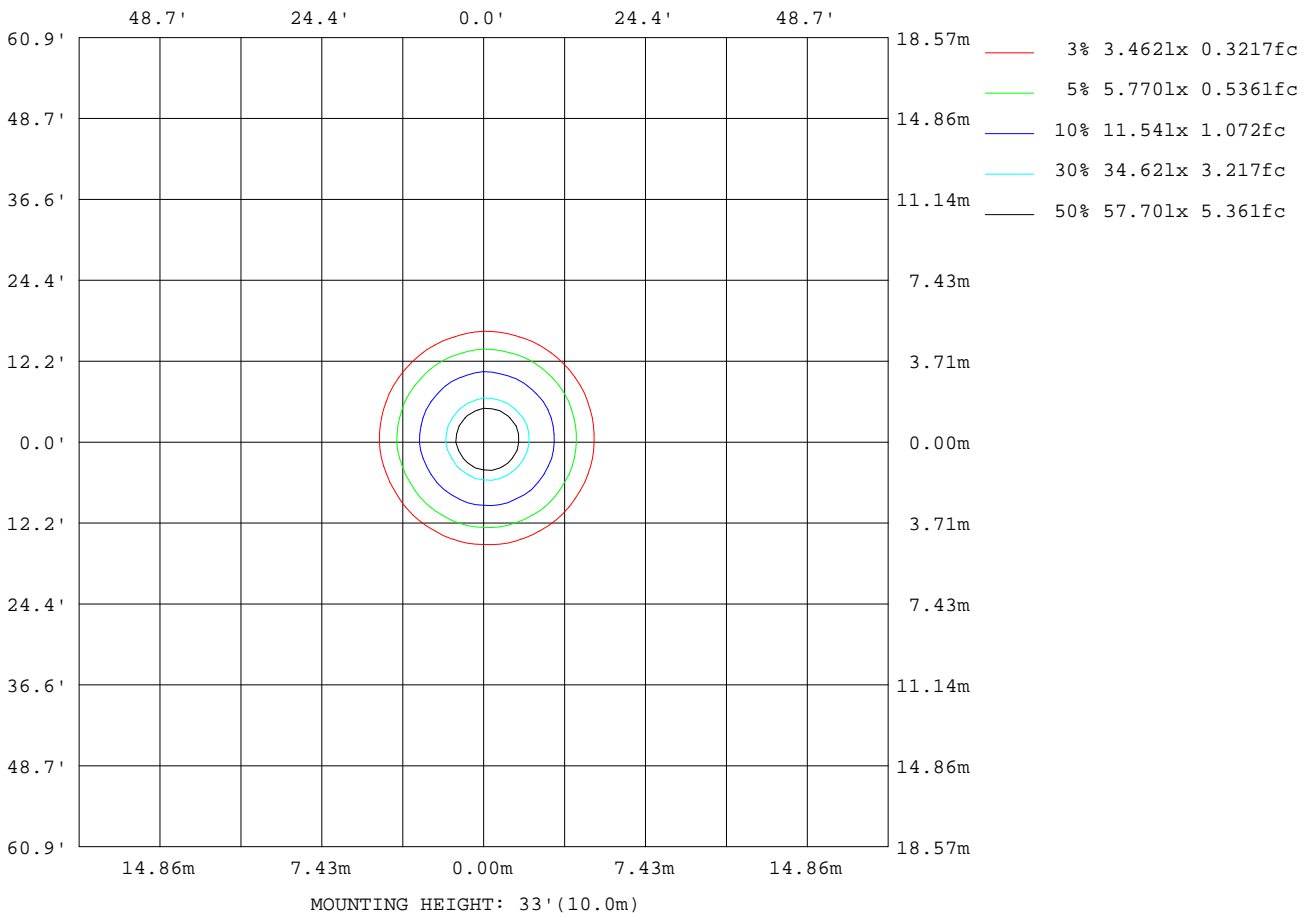
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ISOLUX DIAGRAM

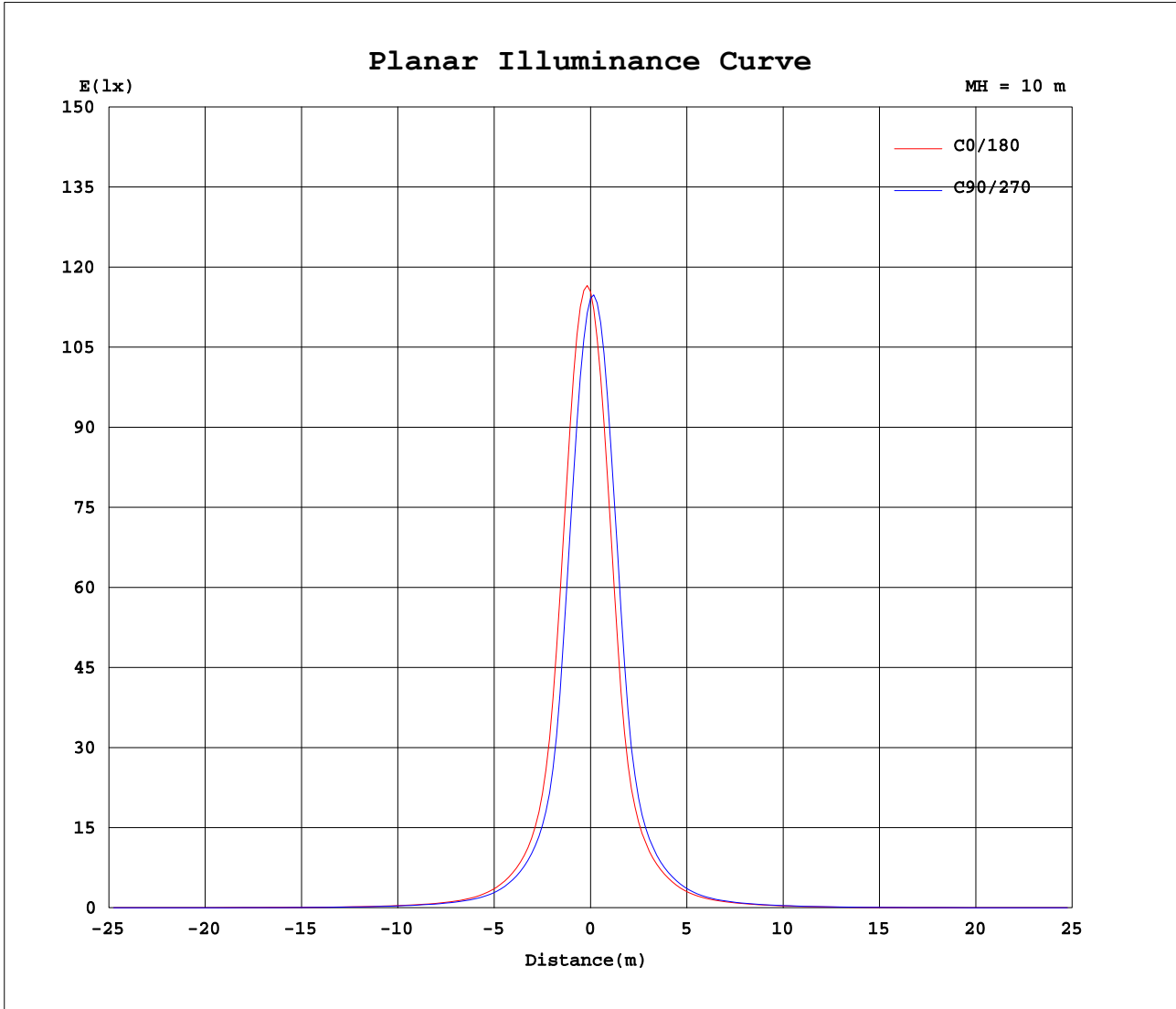
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--1

UNIT: $\times 10\text{cd}$

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1154	1149	1149	1146	1145	1144	1142	1143	1140	1143	1140	1144	1154	1149	1149	1146	1145	1144	1142
5	1010	998	957	933	885	862	820	809	780	784	770	788	819	824	857	873	912	931	970
10	506	492	450	429	388	369	336	327	310	313	308	321	344	347	375	387	424	440	480
15	199	193	180	174	163	158	149	146	141	145	142	147	155	157	165	169	180	184	193
20	103	101	96.1	93.7	88.8	86.2	82.5	81.8	79.6	80.0	79.4	82.0	86.3	87.7	91.5	93.4	98.1	99.8	104
25	59.6	57.9	55.3	53.4	50.7	49.2	47.3	46.8	45.9	46.2	46.1	47.5	49.9	50.7	52.9	54.4	56.6	58.0	59.9
30	35.3	34.5	33.0	32.1	30.7	30.0	29.0	28.8	28.4	28.6	28.6	29.3	30.5	31.0	32.2	32.7	34.0	34.5	35.7
35	23.1	22.7	21.9	21.4	20.6	20.3	19.7	19.7	19.3	19.5	19.5	19.9	20.6	20.9	21.6	21.9	22.6	22.9	23.4
40	16.4	16.2	15.6	15.3	14.9	14.6	14.3	14.2	14.0	14.1	14.1	14.4	14.9	15.1	15.5	15.6	16.1	16.2	16.6
45	12.1	12.0	11.6	11.3	10.9	10.7	10.5	10.4	10.1	10.1	10.1	10.3	10.8	11.1	11.4	11.5	11.8	12.0	12.2
50	8.47	8.40	8.11	7.83	7.54	7.37	7.16	7.09	6.92	6.89	6.87	6.99	7.31	7.56	7.73	7.81	8.06	8.25	8.52
55	5.74	5.73	5.54	5.36	5.12	4.99	4.81	4.77	4.60	4.56	4.49	4.60	4.85	5.01	5.18	5.22	5.41	5.52	5.75
60	3.63	3.62	3.45	3.31	3.10	3.01	2.89	2.87	2.76	2.73	2.67	2.74	2.90	3.00	3.12	3.17	3.32	3.42	3.61
65	2.11	2.09	1.97	1.87	1.72	1.65	1.55	1.52	1.42	1.40	1.34	1.40	1.53	1.61	1.71	1.77	1.89	1.97	2.09
70	0.75	0.73	0.64	0.58	0.48	0.43	0.35	0.31	0.25	0.25	0.23	0.26	0.32	0.34	0.42	0.47	0.57	0.62	0.71
75	0.06	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	0.04	0.05	0.05	0.06
80	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	0.02	0.02	0.02	0.02	0.03	0.02
85	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	0.01	0.01	0.01	0.01	0.01	0.01
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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.0994A P:20.62W PF:0.9398 Lamp Flux:1766.04x1 lm		
NAME: K1X70-18W-830-15D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 110mm*H138mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: x10cd

C (DEG) \ γ (DEG)	285	300	315	330	345													
0	1143	1140	1143	1140	1144													
5	987	1018	1025	1040	1028													
10	491	525	528	550	534													
15	194	204	205	214	208													
20	104	107	108	109	106													
25	60.4	62.2	62.1	62.5	60.9													
30	35.9	36.8	36.7	36.9	36.1													
35	23.5	23.8	23.8	23.9	23.5													
40	16.6	16.8	16.8	16.9	16.6													
45	12.2	12.3	12.3	12.4	12.2													
50	8.60	8.74	8.74	8.76	8.63													
55	5.78	5.92	5.89	5.92	5.81													
60	3.66	3.77	3.77	3.79	3.71													
65	2.12	2.20	2.21	2.23	2.17													
70	0.75	0.82	0.83	0.88	0.83													
75	0.06	0.07	0.07	0.07	0.06													
80	0.03	0.03	0.03	0.03	0.03													
85	0.01	0.01	0.02	0.01	0.01													
90	0.01	0.01	0.01	0.01	0.01													

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 15.0DEG γ Interval: 1.0DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Temperature:25.3DEG Humidity:52%
 Operators:Meng Yongjian Test Distance:5.850m [K=1.0000]
 Test Date:2017-05-19 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	11541	11494	11492	11463	11449	11442	11418	11435	11401	11434
3.0	11305	11205	10958	10785	10474	10301	9994	9898	9671	9684
6.0	9206	9068	8616	8354	7869	7631	7201	7077	6783	6820
9.0	6072	5944	5477	5273	4790	4585	4165	4065	3817	3868
12.0	3396	3280	2989	2847	2601	2490	2304	2250	2154	2185
15.0	1988	1930	1800	1744	1629	1575	1486	1463	1414	1446
18.0	1311	1280	1215	1185	1119	1086	1036	1024	994.2	999.1
21.0	920.9	901.0	857.5	836.5	792.2	769.9	737.4	732.1	712.7	716.2
24.0	661.2	646.4	614.3	597.5	569.4	550.3	527.3	523.5	511.5	515.4
27.0	477.7	466.5	443.5	430.8	409.1	398.9	383.3	380.5	373.2	377.0
30.0	353.3	345.4	330.0	321.3	307.2	300.0	290.0	288.2	283.5	286.1
33.0	270.5	265.2	254.8	248.7	239.3	234.4	227.6	226.6	223.2	224.9
36.0	214.6	211.1	203.6	199.4	192.6	189.3	184.1	183.5	180.7	182.0
39.0	175.0	172.7	166.7	163.3	158.0	155.5	151.7	151.2	148.9	149.9
42.0	144.6	143.4	138.9	136.0	131.6	129.7	126.4	125.5	123.8	124.0
45.0	120.7	119.6	116.1	112.9	109.4	107.4	104.6	103.7	101.4	101.4
48.0	98.82	97.89	94.51	91.29	87.89	85.92	83.39	82.50	80.46	80.36
51.0	78.40	77.74	75.23	72.60	69.90	68.35	66.51	65.84	64.33	63.96
54.0	62.26	61.91	59.84	58.07	55.59	54.50	52.70	52.25	50.50	50.22
57.0	48.49	48.33	46.43	44.78	42.37	41.25	39.69	39.32	37.88	37.49
60.0	36.32	36.17	34.49	33.06	30.97	30.05	28.86	28.65	27.59	27.31
63.0	26.42	26.31	25.05	23.99	22.42	21.75	20.75	20.53	19.58	19.34
66.0	18.39	18.19	17.00	16.03	14.51	13.86	12.80	12.46	11.49	11.34
69.0	10.17	9.896	8.846	8.092	6.967	6.351	5.389	4.975	4.236	4.231
72.0	3.354	3.124	2.458	2.119	1.576	1.300	0.8735	0.7876	0.7209	0.7046
75.0	0.5928	0.5631	0.5030	0.4694	0.4282	0.4171	0.3925	0.3714	0.3722	0.3649
78.0	0.3437	0.3211	0.3196	0.2971	0.3021	0.2796	0.2890	0.2665	0.2758	0.2600
81.0	0.2496	0.2228	0.2299	0.2031	0.2146	0.1922	0.2058	0.1835	0.1992	0.1791
84.0	0.1752	0.1528	0.1599	0.1332	0.1554	0.1288	0.1467	0.1245	0.1445	0.1201
87.0	0.1270	0.1005	0.1160	0.0918	0.1073	0.0831	0.1051	0.0809	0.1029	0.0809
90.0	0.0918	0.0875	0.0875	0.0853	0.0831	0.0831	0.0809	0.0809	0.0831	0.0831
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	11399	11439	11541	11494	11492	11463	11449	11442	11418	11435
3.0	9567	9705	9976	10008	10241	10347	10621	10758	11006	11134
6.0	6689	6871	7194	7250	7610	7774	8196	8399	8817	8987
9.0	3776	3944	4195	4247	4569	4726	5157	5354	5788	5934
12.0	2166	2250	2385	2421	2590	2665	2874	2974	3201	3270
15.0	1415	1466	1546	1566	1654	1688	1795	1836	1933	1942
18.0	989.6	1022	1079	1094	1145	1168	1232	1255	1319	1307
21.0	711.4	735.4	774.7	786.6	820.8	837.0	878.7	893.1	927.2	930.4
24.0	512.9	529.3	557.8	569.2	591.0	603.6	632.9	644.0	669.2	673.5
27.0	376.2	386.7	405.0	411.3	428.6	437.1	456.5	464.6	482.5	486.2
30.0	285.9	292.9	305.2	309.6	321.7	327.1	340.3	345.3	356.8	358.7
33.0	225.1	230.1	238.8	242.4	250.2	254.0	262.8	266.5	273.8	274.7
36.0	181.9	185.9	192.4	195.2	200.8	203.4	209.9	212.3	217.5	217.4
39.0	149.7	153.0	158.1	160.7	164.6	166.3	171.4	173.3	177.0	176.7
42.0	124.3	127.1	131.7	134.4	137.6	138.3	142.2	143.5	146.5	146.1
45.0	101.2	103.3	107.8	111.0	113.8	114.9	118.0	119.8	122.1	122.4
48.0	80.08	81.64	85.38	88.33	90.54	91.52	94.61	96.73	99.58	100.4
51.0	63.73	64.83	67.74	69.95	71.47	72.12	74.30	76.03	78.66	79.34
54.0	49.49	50.74	53.33	54.94	56.53	56.92	58.71	59.90	62.16	62.77
57.0	36.77	37.72	39.89	41.24	42.66	43.19	44.86	46.11	48.37	48.90
60.0	26.66	27.40	28.96	29.98	31.19	31.71	33.23	34.22	36.14	36.58
63.0	18.70	19.39	20.80	21.63	22.62	23.13	24.23	25.03	26.34	26.63
66.0	10.77	11.32	12.56	13.22	14.30	14.92	16.21	17.03	18.22	18.47
69.0	4.000	4.336	5.041	5.393	6.286	6.746	7.985	8.667	9.854	10.06
72.0	0.6989	0.7373	0.8284	0.8995	1.247	1.425	2.088	2.470	3.143	3.303
75.0	0.3722	0.3649	0.3866	0.4031	0.4170	0.4495	0.4952	0.5352	0.5997	0.6233
78.0	0.2736	0.2621	0.2752	0.2954	0.2839	0.3064	0.3014	0.3261	0.3145	0.3327
81.0	0.1948	0.1813	0.1943	0.2101	0.1943	0.2188	0.2052	0.2320	0.2183	0.2364
84.0	0.1423	0.1266	0.1354	0.1511	0.1288	0.1532	0.1332	0.1620	0.1441	0.1664
87.0	0.0985	0.0809	0.0961	0.1051	0.0808	0.1051	0.0851	0.1116	0.0960	0.1160
90.0	0.0809	0.0809	0.0875	0.0809	0.0743	0.0722	0.0722	0.0722	0.0722	0.0743
G/C	300.0	315.0	330.0	345.0						
0.0	11401	11434	11399	11439						
3.0	11311	11364	11438	11384						
6.0	9328	9387	9565	9429						
9.0	6283	6311	6520	6359						
12.0	3496	3535	3696	3589						
15.0	2041	2055	2137	2079						
18.0	1367	1360	1411	1358						
21.0	959.6	961.7	973.5	948.1						

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	694.2	693.3	699.0	679.4
27.0	500.3	499.2	502.9	490.2
30.0	367.7	366.6	369.5	361.3
33.0	280.0	279.1	281.0	275.9
36.0	221.0	220.4	222.1	218.2
39.0	179.1	179.0	180.3	177.6
42.0	147.8	147.4	148.2	146.3
45.0	123.4	123.4	123.5	122.2
48.0	101.9	101.9	102.0	100.6
51.0	80.70	80.74	80.88	79.67
54.0	63.85	63.95	63.93	63.10
57.0	50.21	50.09	50.29	49.37
60.0	37.73	37.68	37.86	37.11
63.0	27.45	27.56	27.67	27.09
66.0	19.32	19.41	19.64	19.10
69.0	10.92	11.12	11.49	10.95
72.0	3.843	3.909	4.241	3.908
75.0	0.6694	0.6593	0.6781	0.6422
78.0	0.3210	0.3327	0.3210	0.3283
81.0	0.2249	0.2364	0.2227	0.2363
84.0	0.1506	0.1664	0.1463	0.1620
87.0	0.0939	0.1138	0.0961	0.1138
90.0	0.0743	0.0743	0.0743	0.0787

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: