

LED Downlight Kenzo Series K1X55-9W-830-24D



Light Output Ratio:	100.0%	
Luminaire Power:	10.61 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: 2017-08-30

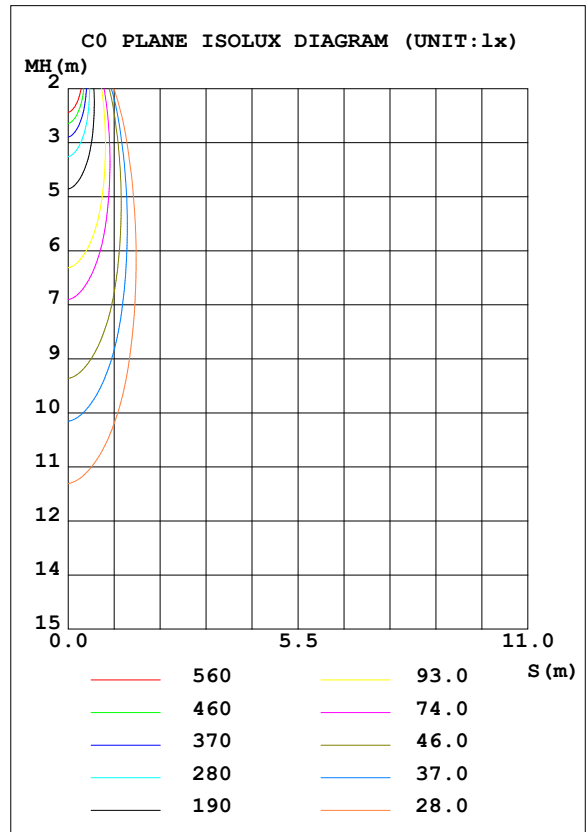
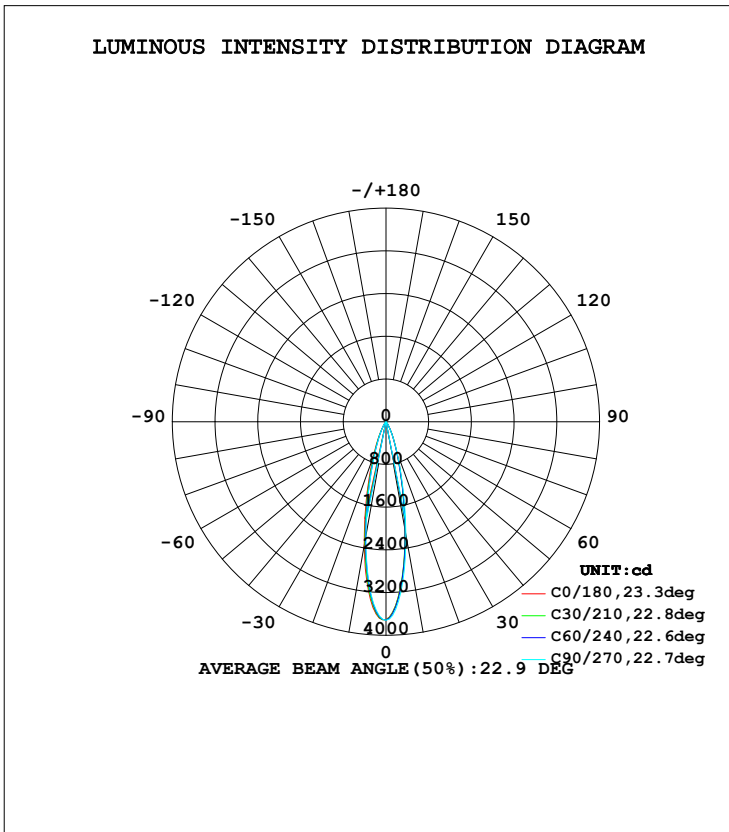
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0533A P:10.61W PF:0.9015 Lamp Flux:827.974x1 lm		
NAME: K1X55-9W-830-24D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ88mm*H125mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.00 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	3722	S/MH (C0/180)	0.42
NOMINAL POWER (W)	11.0	LOR (%)	100.0	S/MH (C90/270)	0.39
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	827.97	η UP, DN (C0-180)	0.0, 49.7
NOMINAL FLUX (lm)	827.974	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.3
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
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Test Speed: HIGH
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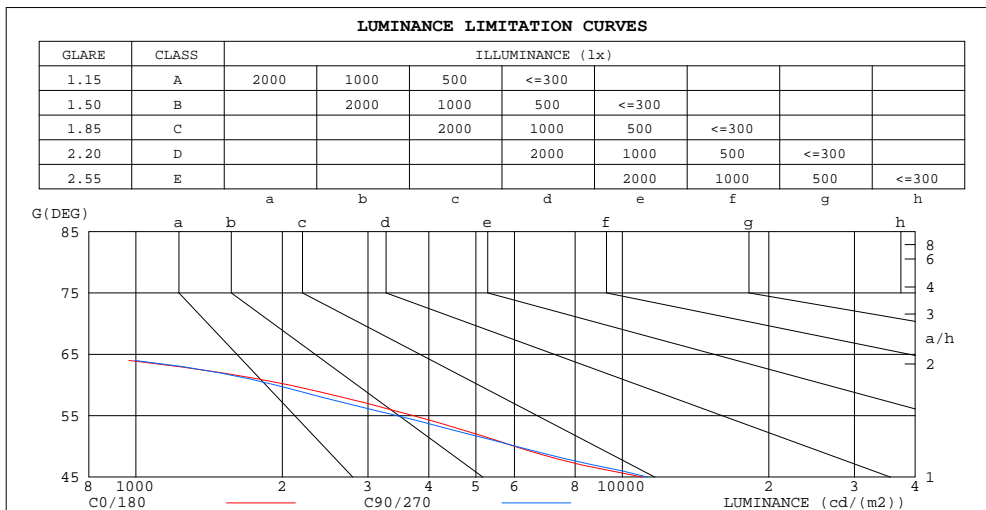
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2068	2081	2144	2307	2349	2212	2173	2136	0- 10	273.8	273.8	33.1,33.1
20	594.5	567.5	593.2	680.2	701.4	610.2	589.0	610.6	10- 20	339.5	613.3	74.1,74.1
30	130.9	134.7	142.6	157.2	151.1	142.5	145.7	145.0	20- 30	148.3	761.6	92,92
40	33.86	34.03	34.93	36.58	36.68	35.10	36.77	35.90	30- 40	44.90	806.5	97.4,97.4
50	9.166	9.346	9.243	10.40	10.35	9.747	10.25	9.444	40- 50	15.41	821.9	99.3,99.3
60	2.451	2.386	2.295	2.555	2.737	2.443	2.654	2.487	50- 60	4.892	826.8	99.9,99.9
70	0.2123	0.1748	0.1707	0.1660	0.1922	0.2057	0.1791	0.2144	60- 70	0.9722	827.8	100,100
80	0.0854	0.0546	0.0679	0.0633	0.0633	0.0788	0.0589	0.0854	70- 80	0.1262	827.9	100,100
90	0.0306	0.0306	0.0328	0.0306	0.0219	0.0219	0.0175	0.0219	80- 90	0.0477	828.0	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	254	233
80	207	165
75	224	171
70	261	210
65	720	742
60	2064	1933
55	3720	3443
50	6005	6056
45	11000	11269

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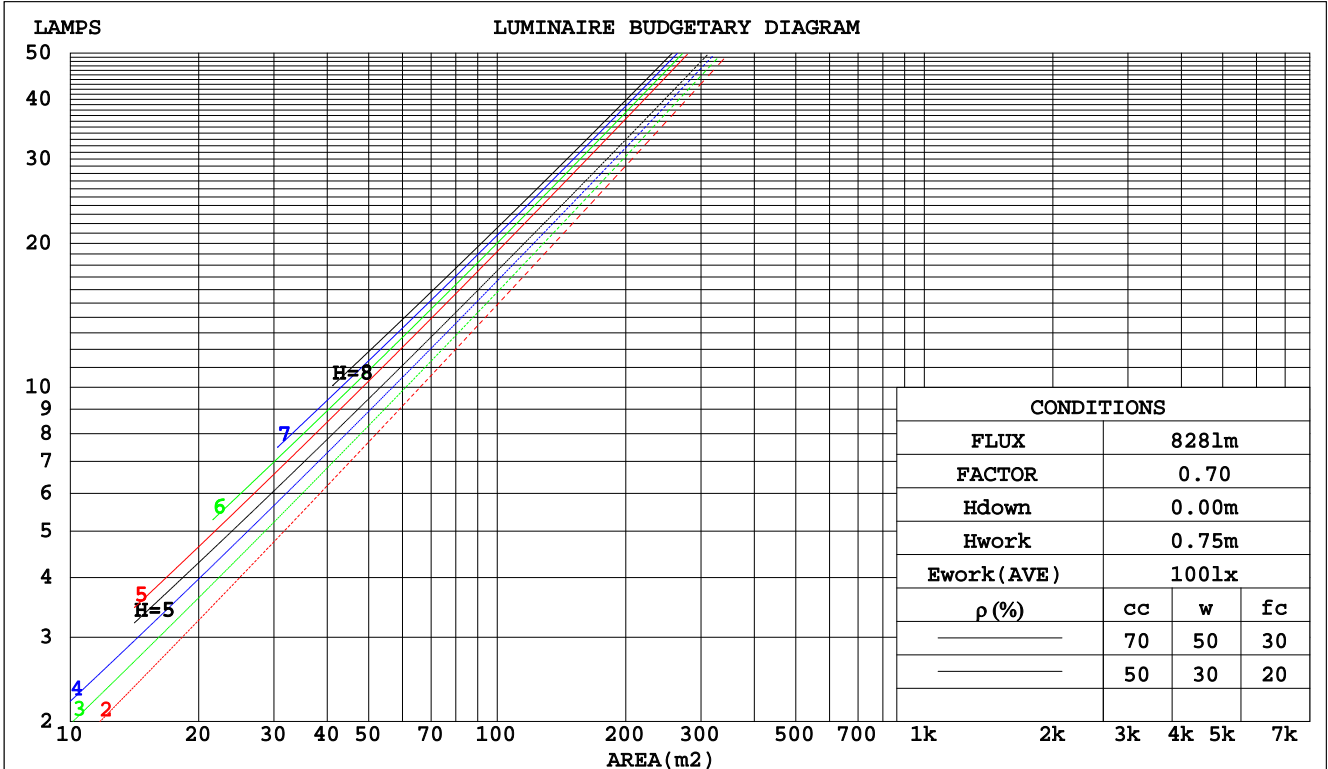
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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															
	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	.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	.99	.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	.86	.93	.89	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
6.0	.90	.86	.83	.90	.86	.83	.88	.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	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.77	.75	.81	.77	.74	.80	.77	.74	.80	.76	.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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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	.142	.081	.026	.135	.077	.024	.123	.070	.022	.111	.064	.021	.101	.058	.019	
2.0	.132	.072	.022	.127	.070	.021	.116	.065	.020	.107	.060	.019	.098	.056	.018	
3.0	.124	.066	.020	.119	.064	.019	.111	.060	.018	.103	.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	.107	.055	.016	.100	.052	.015	.095	.050	.015	.089	.048	.014	
6.0	.104	.052	.015	.101	.051	.015	.096	.049	.014	.091	.047	.014	.086	.045	.013	
7.0	.099	.049	.014	.097	.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	.081	.041	.012	
9.0	.090	.044	.012	.088	.043	.012	.085	.042	.012	.081	.041	.012	.078	.040	.011	
10.0	.086	.041	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.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	.079	.053	.035	.054	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.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	

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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	11.6	12.3	11.8	12.5	12.6	11.8	12.5	12.1	12.7	12.8
3H	11.5	12.1	11.7	12.3	12.5	11.7	12.3	11.9	12.5	12.7
4H	11.4	12.0	11.7	12.2	12.4	11.6	12.2	11.9	12.4	12.6
6H	11.3	11.9	11.6	12.1	12.4	11.5	12.1	11.8	12.3	12.6
8H	11.3	11.8	11.6	12.1	12.3	11.5	12.0	11.8	12.3	12.5
12H	11.2	11.8	11.5	12.0	12.3	11.4	12.0	11.8	12.2	12.5
4H 2H	11.4	12.0	11.7	12.3	12.5	11.7	12.3	11.9	12.5	12.7
3H	11.3	11.8	11.6	12.1	12.3	11.5	12.0	11.8	12.3	12.5
4H	11.2	11.7	11.5	12.0	12.3	11.4	11.9	11.7	12.2	12.5
6H	11.1	11.5	11.4	11.8	12.2	11.3	11.7	11.7	12.1	12.4
8H	11.0	11.4	11.4	11.8	12.1	11.2	11.6	11.6	12.0	12.3
12H	11.0	11.3	11.4	11.7	12.1	11.2	11.6	11.6	11.9	12.3
8H 4H	11.0	11.4	11.4	11.8	12.1	11.2	11.6	11.6	12.0	12.3
6H	10.9	11.2	11.3	11.6	12.0	11.1	11.5	11.5	11.9	12.3
8H	10.8	11.1	11.3	11.6	12.0	11.1	11.4	11.5	11.8	12.2
12H	10.8	11.0	11.3	11.5	11.9	11.0	11.3	11.5	11.7	12.2
12H 4H	11.0	11.3	11.4	11.7	12.1	11.2	11.6	11.6	11.9	12.3
6H	10.8	11.1	11.3	11.6	12.0	11.1	11.4	11.5	11.8	12.2
8H	10.8	11.0	11.3	11.5	11.9	11.0	11.3	11.5	11.7	12.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 7.7					+ 2.9 / - 8.1				
1.5H	+ 4.3 / - 5.5					+ 4.4 / - 5.5				
2.0H	+ 5.3 / - 8.8					+ 5.5 / - 8.0				

CIE Pub.117 Corrected 828.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.7)

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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	90	84	81	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	110	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	110	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

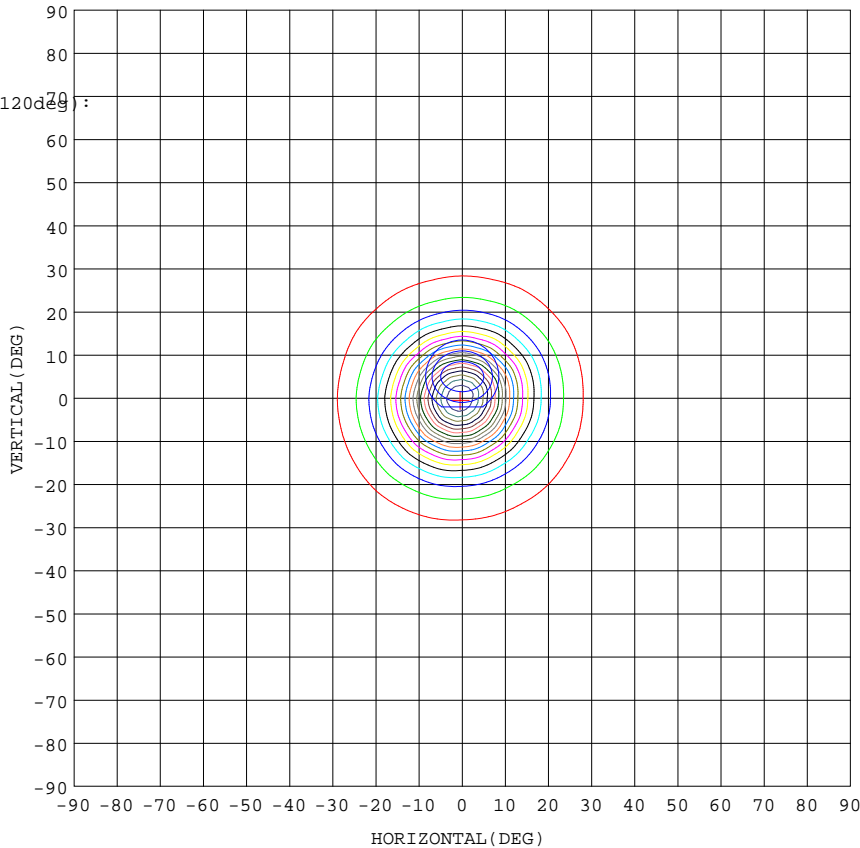
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Conical surface Flux(90deg):

816.33 lm
%lum = 98.6%
%lamp = 98.6%

Conical surface Flux(120deg):

826.83 lm
%lum = 99.9%
%lamp = 99.9%



1. AVG=3085, MIN=2505
2. AVG=2932, MIN=1950
3. AVG=2736, MIN=1453

Imax: 3719 (H=0.5, V=0.5)
(At: C=165.0, Gamma=1.0)

UNIT: cd

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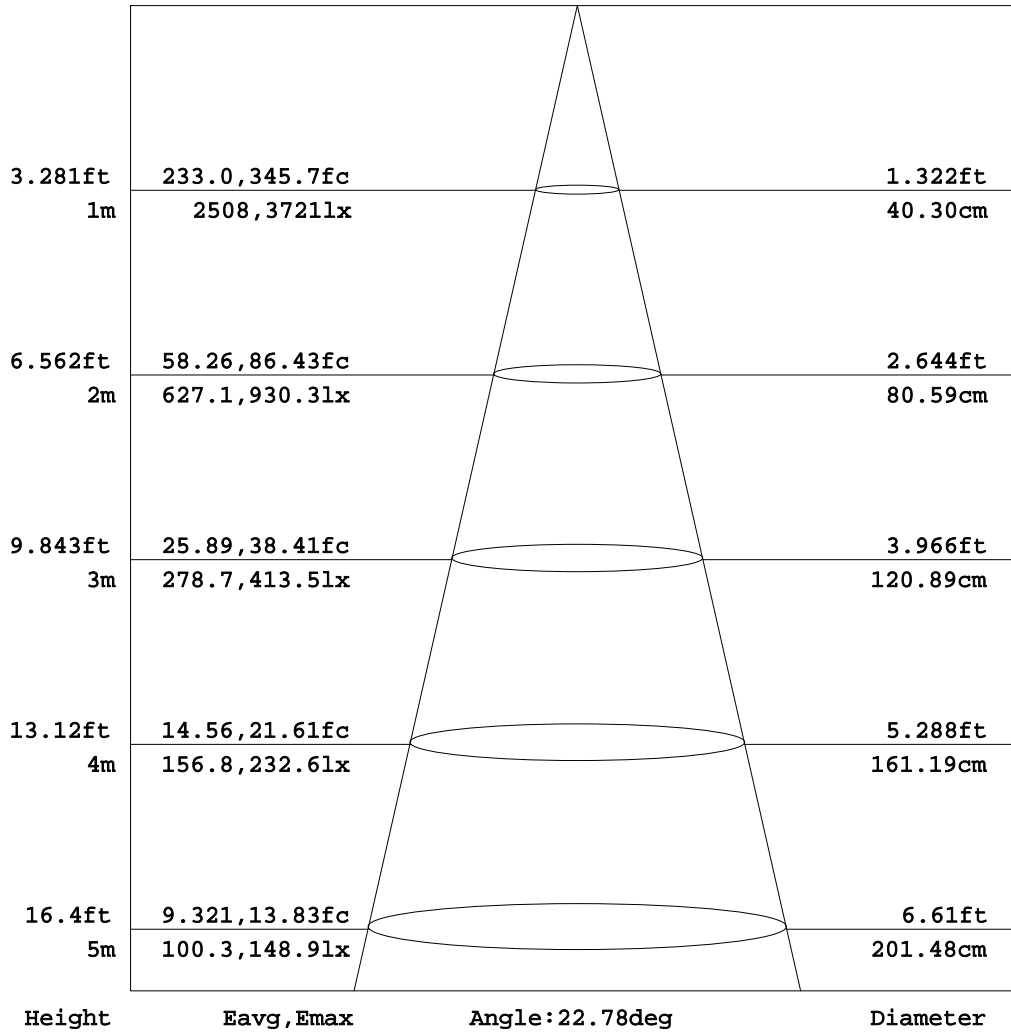
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AAI Figure

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Flux out:356.0 lm



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

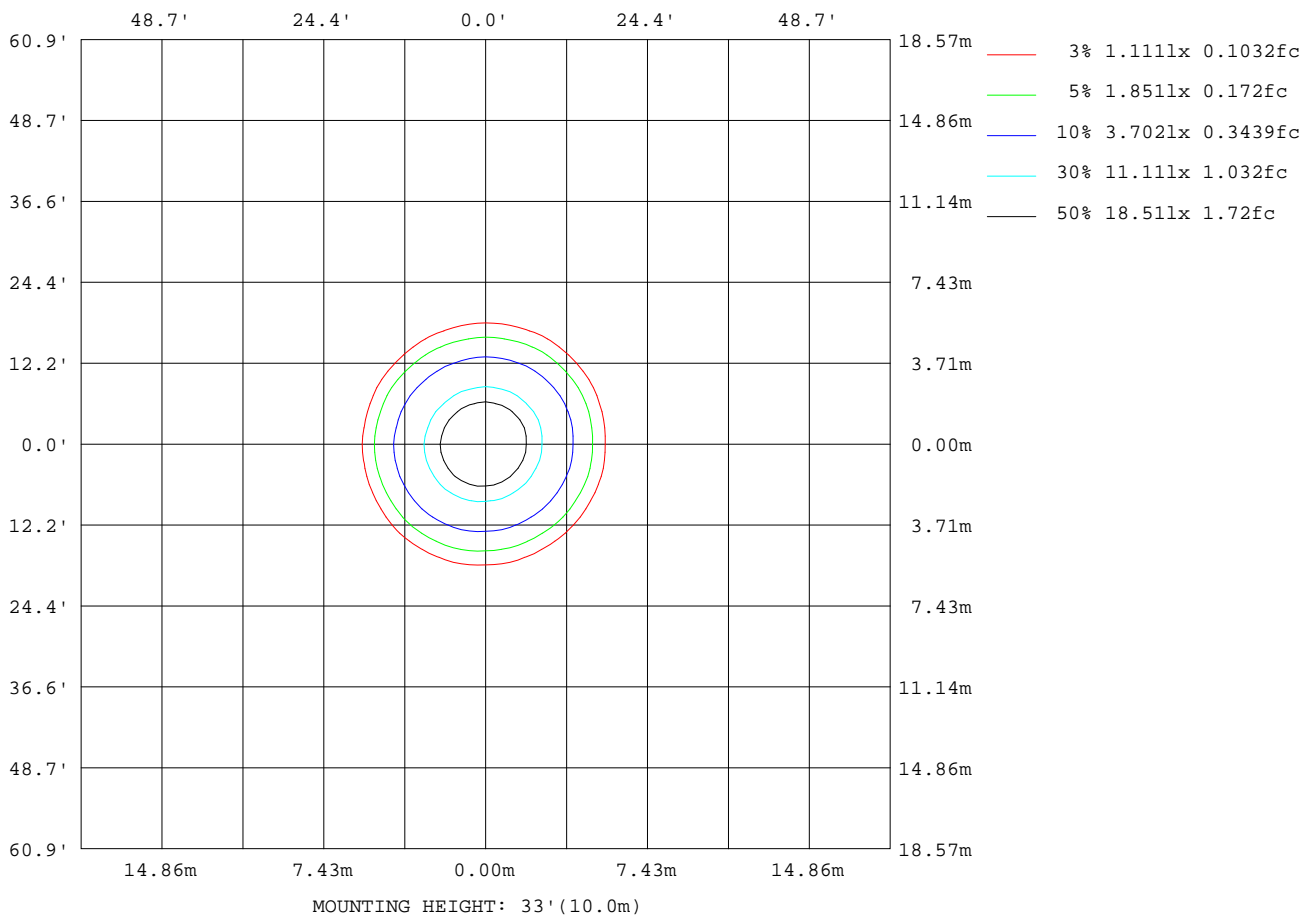
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ISOLUX DIAGRAM

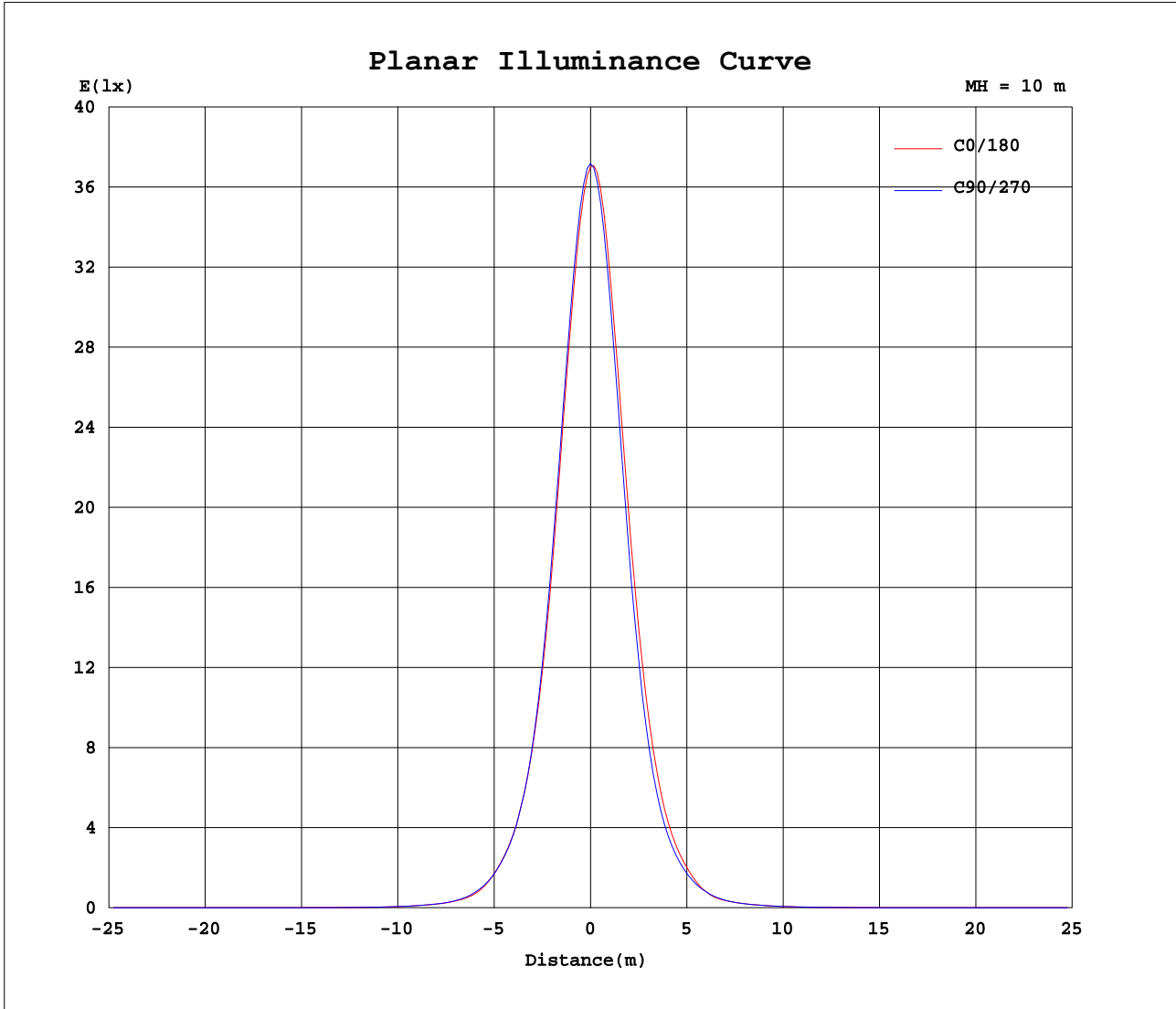
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Planar Illuminance Curve



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GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0533A P:10.61W PF:0.9015 Lamp Flux:827.974x1 lm		
NAME: K1X55-9W-830-24D	TYPE:Downlight	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	3702	3708	3709	3712	3713	3717	3717	3718	3718	3718	3721	3718	3702	3708	3709	3712	3713	3717	3717
5	3124	3140	3118	3152	3144	3194	3203	3260	3272	3316	3312	3336	3344	3304	3305	3263	3265	3227	3233
10	2068	2082	2049	2081	2070	2131	2144	2219	2241	2307	2303	2334	2349	2291	2284	2212	2211	2156	2173
15	1144	1144	1109	1128	1118	1160	1175	1243	1268	1336	1330	1363	1370	1306	1297	1221	1209	1167	1189
20	594	586	573	567	566	577	593	624	646	680	683	698	701	664	648	610	600	584	589
25	303	304	295	293	286	293	298	314	324	340	341	348	352	338	332	311	305	294	298
30	131	136	131	135	132	141	143	149	151	157	151	149	151	146	149	143	144	142	146
35	63.0	62.8	62.7	63.2	63.7	65.2	65.3	67.3	66.8	67.4	65.2	65.7	66.0	65.1	65.7	65.1	66.3	67.1	69.0
40	33.9	34.1	33.7	34.0	33.8	34.5	34.9	35.9	35.9	36.6	35.9	36.0	36.7	35.7	35.9	35.1	35.7	35.8	36.8
45	18.5	18.8	18.6	18.9	18.5	18.8	18.9	19.6	19.7	20.1	19.7	19.6	20.1	19.7	19.9	19.7	20.1	19.9	20.2
50	9.17	9.45	9.30	9.35	9.04	9.02	9.24	9.94	10.2	10.4	10.1	9.97	10.4	10.1	9.96	9.75	10.0	10.0	10.2
55	5.07	5.08	4.95	5.10	4.94	4.77	4.69	5.10	5.34	5.46	5.34	5.40	5.77	5.46	5.35	5.30	5.51	5.36	5.46
60	2.45	2.35	2.23	2.39	2.40	2.34	2.29	2.45	2.48	2.55	2.56	2.57	2.74	2.47	2.36	2.44	2.69	2.60	2.65
65	0.72	0.70	0.65	0.74	0.76	0.75	0.74	0.90	0.87	0.85	0.81	0.86	0.95	0.86	0.82	0.89	0.98	0.91	0.92
70	0.21	0.19	0.20	0.17	0.18	0.16	0.17	0.15	0.18	0.17	0.20	0.18	0.19	0.21	0.19	0.21	0.18	0.20	0.18
75	0.14	0.11	0.12	0.10	0.12	0.09	0.11	0.09	0.11	0.10	0.12	0.11	0.11	0.14	0.11	0.13	0.10	0.12	0.10
80	0.09	0.06	0.08	0.05	0.07	0.05	0.07	0.05	0.07	0.06	0.08	0.07	0.06	0.08	0.06	0.08	0.06	0.07	0.06
85	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.03	0.05	0.04	0.05	0.04	0.03	0.05	0.03	0.05	0.04	0.05	0.03
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	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:0.0533A P:10.61W PF:0.9015 Lamp Flux:827.974x1 lm		
NAME: K1X55-9W-830-24D	TYPE:Downlight	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	3718	3718	3718	3721	3718														
5	3200	3216	3189	3205	3174														
10	2136	2166	2136	2166	2124														
15	1174	1207	1192	1214	1185														
20	594	611	611	625	611														
25	298	310	311	317	311														
30	144	149	145	145	137														
35	68.3	68.9	67.4	67.0	65.2														
40	36.2	36.6	35.9	35.9	34.9														
45	19.8	19.9	19.3	19.3	18.9														
50	10.2	10.1	9.44	9.28	9.11														
55	5.56	5.52	5.03	5.02	5.04														
60	2.69	2.69	2.49	2.48	2.52														
65	0.95	0.94	0.75	0.71	0.75														
70	0.20	0.19	0.21	0.20	0.21														
75	0.13	0.11	0.14	0.12	0.14														
80	0.08	0.06	0.09	0.06	0.08														
85	0.05	0.03	0.05	0.03	0.05														
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	3702	3708	3709	3712	3713	3717	3717	3718	3718	3718
3.0	3446	3463	3451	3477	3475	3510	3516	3553	3561	3587
6.0	2931	2947	2921	2955	2948	2999	3010	3075	3090	3141
9.0	2290	2308	2273	2306	2294	2357	2365	2443	2463	2527
12.0	1653	1661	1627	1657	1648	1703	1718	1791	1817	1883
15.0	1144	1144	1109	1128	1118	1160	1175	1243	1268	1336
18.0	772.4	769.3	741.2	747.2	738.1	764.9	777.1	830.6	856.1	901.7
21.0	514.4	514.5	498.2	498.7	489.8	504.5	511.2	543.9	566.9	591.7
24.0	347.3	349.0	338.2	336.9	329.0	337.3	341.4	360.6	371.8	390.2
27.0	221.9	223.8	216.5	217.2	212.6	218.9	222.8	236.8	244.2	256.3
30.0	130.9	135.7	131.2	134.7	132.4	140.8	142.6	149.1	151.5	157.2
33.0	81.56	82.70	82.09	82.96	83.87	87.89	88.75	90.80	90.42	91.03
36.0	54.89	55.30	54.47	55.54	54.81	56.60	56.81	58.55	58.97	58.61
39.0	38.35	38.62	38.14	38.49	38.07	38.92	39.38	40.53	40.52	41.06
42.0	26.72	26.84	26.42	26.81	26.55	27.10	27.37	27.91	27.97	28.68
45.0	18.47	18.84	18.58	18.91	18.50	18.82	18.92	19.61	19.69	20.10
48.0	11.61	11.93	11.80	11.96	11.67	11.84	12.08	12.85	13.06	13.38
51.0	8.215	8.459	8.321	8.335	8.015	7.919	8.095	8.779	9.061	9.221
54.0	5.761	5.841	5.718	5.826	5.599	5.437	5.396	5.878	6.148	6.288
57.0	3.865	3.782	3.649	3.809	3.751	3.593	3.504	3.809	3.986	4.077
60.0	2.451	2.347	2.232	2.386	2.400	2.341	2.295	2.450	2.477	2.555
63.0	1.318	1.276	1.213	1.339	1.353	1.357	1.342	1.477	1.432	1.462
66.0	0.4686	0.4644	0.4224	0.4991	0.5014	0.4991	0.4667	0.6320	0.6108	0.5886
69.0	0.2320	0.2119	0.2211	0.1966	0.2036	0.1791	0.1861	0.1704	0.1927	0.1835
72.0	0.1751	0.1529	0.1663	0.1376	0.1511	0.1245	0.1401	0.1179	0.1445	0.1333
75.0	0.1379	0.1136	0.1226	0.1005	0.1160	0.0852	0.1051	0.0852	0.1073	0.0961
78.0	0.1029	0.0830	0.0963	0.0699	0.0832	0.0634	0.0832	0.0634	0.0832	0.0721
81.0	0.0745	0.0568	0.0722	0.0459	0.0656	0.0415	0.0678	0.0459	0.0678	0.0524
84.0	0.0569	0.0350	0.0569	0.0350	0.0525	0.0350	0.0547	0.0350	0.0526	0.0350
87.0	0.0459	0.0306	0.0416	0.0328	0.0394	0.0306	0.0437	0.0328	0.0416	0.0306
90.0	0.0306	0.0306	0.0306	0.0306	0.0328	0.0306	0.0328	0.0306	0.0328	0.0306
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3721	3718	3708	3709	3712	3713	3717	3717	3718	3718
3.0	3585	3603	3604	3583	3584	3558	3557	3531	3534	3512
6.0	3138	3160	3171	3127	3129	3078	3078	3034	3046	3010
9.0	2519	2553	2566	2510	2505	2436	2434	2382	2397	2361
12.0	1881	1909	1922	1865	1849	1781	1773	1723	1737	1708
15.0	1330	1363	1370	1306	1297	1221	1209	1167	1189	1174
18.0	903.3	922.5	925.7	878.6	857.5	810.2	798.0	767.1	782.7	781.0
21.0	595.5	607.4	609.6	584.0	563.9	536.6	521.7	503.3	512.0	511.7
24.0	391.7	399.9	403.6	386.5	379.1	355.9	348.7	337.0	341.8	340.9
27.0	254.9	259.0	262.9	251.8	249.5	233.4	229.3	221.8	225.8	225.5
30.0	150.9	149.0	151.1	145.6	149.0	142.5	144.2	142.3	145.7	143.7
33.0	87.90	85.33	86.52	86.47	88.52	86.11	88.81	90.47	92.40	90.70
36.0	57.24	57.78	58.43	57.10	57.55	56.33	57.89	59.14	60.06	60.29
39.0	40.40	40.54	41.24	40.24	40.37	39.43	40.12	40.27	41.46	40.96
42.0	28.20	28.00	28.54	27.78	28.07	27.69	28.29	28.21	28.84	28.17
45.0	19.74	19.64	20.10	19.69	19.89	19.68	20.06	19.95	20.19	19.84
48.0	13.01	12.93	13.36	12.98	12.99	12.71	13.08	12.94	13.17	12.95
51.0	8.950	8.852	9.228	8.927	8.823	8.621	8.911	8.877	9.125	9.152
54.0	6.145	6.171	6.543	6.250	6.131	6.024	6.252	6.136	6.278	6.364
57.0	4.017	4.071	4.386	4.051	3.918	3.961	4.187	4.046	4.104	4.227
60.0	2.560	2.566	2.737	2.467	2.361	2.443	2.687	2.603	2.654	2.688
63.0	1.443	1.479	1.570	1.431	1.346	1.448	1.601	1.540	1.566	1.567
66.0	0.5452	0.6128	0.6928	0.6208	0.5861	0.6471	0.7079	0.6190	0.6204	0.6519
69.0	0.2124	0.2032	0.2140	0.2387	0.2162	0.2255	0.2031	0.2189	0.2009	0.2188
72.0	0.1641	0.1507	0.1550	0.1773	0.1528	0.1685	0.1420	0.1641	0.1441	0.1641
75.0	0.1248	0.1092	0.1114	0.1378	0.1092	0.1291	0.1005	0.1247	0.1027	0.1269
78.0	0.1007	0.0808	0.0786	0.1028	0.0765	0.0984	0.0721	0.0941	0.0721	0.0963
81.0	0.0744	0.0611	0.0546	0.0787	0.0589	0.0744	0.0502	0.0722	0.0502	0.0722
84.0	0.0591	0.0393	0.0371	0.0591	0.0371	0.0547	0.0350	0.0525	0.0371	0.0525
87.0	0.0481	0.0328	0.0306	0.0416	0.0284	0.0416	0.0241	0.0329	0.0262	0.0372
90.0	0.0328	0.0306	0.0219	0.0241	0.0197	0.0219	0.0197	0.0219	0.0175	0.0219
G/C	300.0	315.0	330.0	345.0						
0.0	3718	3718	3721	3718						
3.0	3520	3500	3509	3489						
6.0	3030	3003	3019	2989						
9.0	2391	2361	2385	2347						
12.0	1737	1713	1739	1704						
15.0	1207	1192	1214	1185						
18.0	810.2	805.3	821.6	803.4						
21.0	531.0	537.1	543.7	538.1						

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	355.2	355.4	363.4	356.7
27.0	235.9	233.7	237.3	230.1
30.0	148.6	145.0	145.4	136.8
33.0	91.50	89.85	89.20	84.70
36.0	60.07	59.64	58.80	56.62
39.0	41.47	40.72	40.68	39.44
42.0	28.43	27.97	27.98	27.30
45.0	19.94	19.30	19.31	18.88
48.0	12.85	12.13	11.96	11.68
51.0	8.985	8.363	8.222	8.097
54.0	6.267	5.742	5.704	5.713
57.0	4.200	3.837	3.823	3.887
60.0	2.693	2.487	2.477	2.518
63.0	1.574	1.405	1.356	1.385
66.0	0.6487	0.4942	0.4576	0.4963
69.0	0.2118	0.2341	0.2184	0.2363
72.0	0.1507	0.1816	0.1659	0.1816
75.0	0.1092	0.1379	0.1180	0.1379
78.0	0.0786	0.1072	0.0830	0.1029
81.0	0.0502	0.0766	0.0589	0.0787
84.0	0.0371	0.0569	0.0350	0.0569
87.0	0.0284	0.0394	0.0305	0.0372
90.0	0.0197	0.0219	0.0219	0.0241

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 C Interval: 15.0DEG
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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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