

LED Downlight TAKEO Series T150-25W-830-30



Light Output Ratio:	100.0%	
Luminaire Power:	25.13 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: 2018-01-19

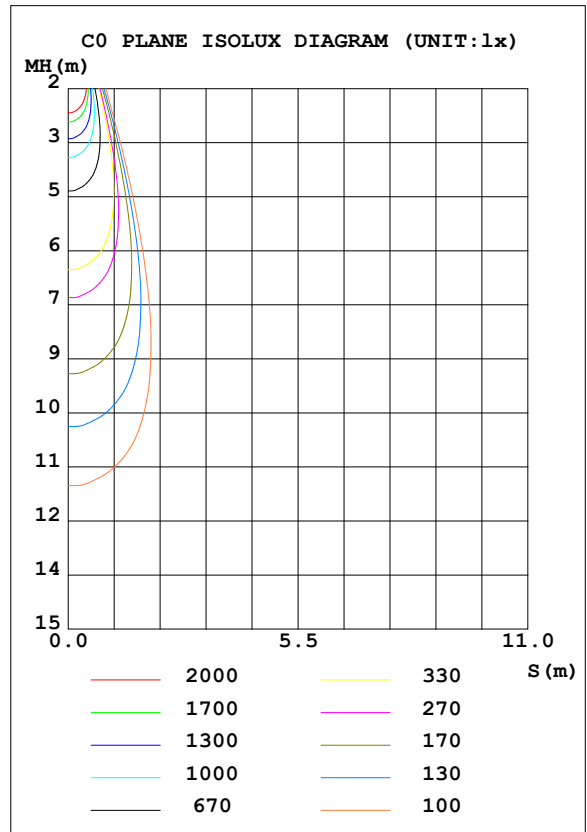
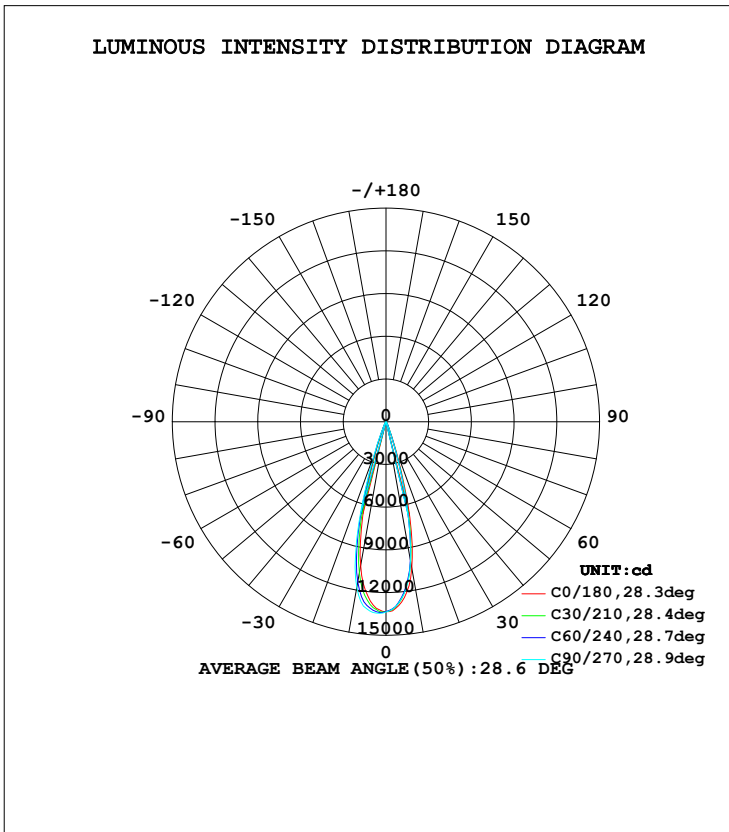
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:35.90V I:0.7000A P:25.13W PF:1.000 Lamp Flux:3152.78x1 lm		
NAME: T150-25W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.46 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	13520	S/MH (C0/180)	0.43
NOMINAL POWER (W)	25	LOR (%)	100.0	S/MH (C90/270)	0.46
RATED VOLTAGE (V)	36	TOTAL FLUX (lm)	3152.8	η UP, DN (C0-180)	0.0, 47.3
NOMINAL FLUX (lm)	3152.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	35.9	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: 2018-01-19

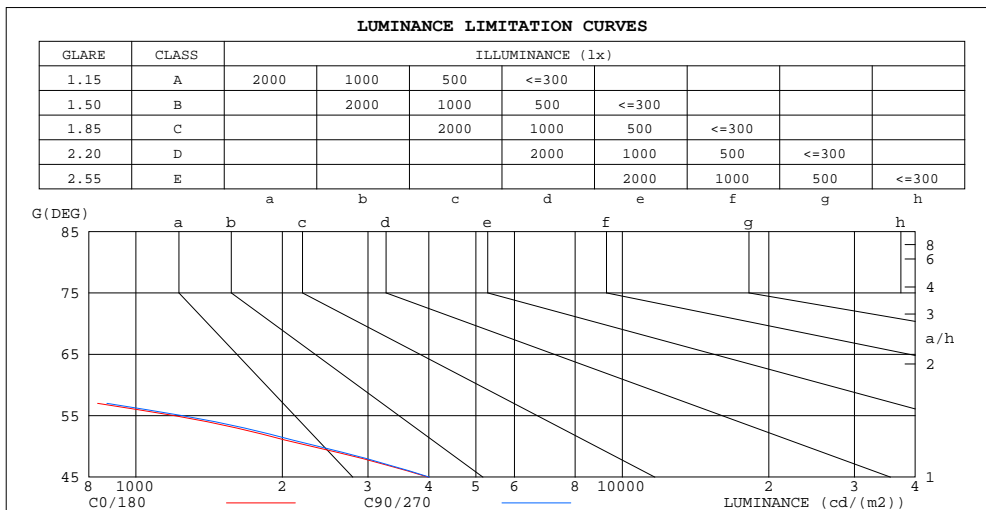
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1045	1003	994.2	1056	1029	1100	1182	1106	0- 10	1158	1158	36.7,36.7
20	166.2	149.1	136.5	170.3	166.0	185.1	236.3	171.6	10- 20	1568	2725	86.4,86.4
30	24.07	23.74	22.57	22.58	24.47	25.75	26.77	23.64	20- 30	272.0	2997	95.1,95.1
40	9.880	9.964	9.709	9.215	9.363	9.727	10.01	9.365	30- 40	94.93	3092	98.1,98.1
50	2.971	3.148	3.067	2.891	2.883	2.863	2.858	2.765	40- 50	44.58	3137	99.5,99.5
60	0.4584	0.5564	0.4986	0.4466	0.4280	0.4613	0.4157	0.3906	50- 60	12.91	3150	99.9,99.9
70	0.1167	0.1465	0.1288	0.1107	0.1111	0.1315	0.1127	0.1022	60- 70	2.446	3152	100,100
80	0.0193	0.0205	0.0206	0.0164	0.0135	0.0167	0.0139	0.0153	70- 80	0.6257	3153	100,100
90	0.0114	0.0112	0.0118	0.0109	0.0090	0.0092	0.0094	0.0094	80- 90	0.1253	3153	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 cd/(m2)		
G (DEG)	C0/180	C90/270
85	68	70
80	55	59
75	106	117
70	170	187
65	267	292
60	456	496
55	1201	1247
50	2300	2374
45	3990	4009

C Range: 0 - 360DEG
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 Temperature: 25.3DEG
 Operators: Meng Yongjian
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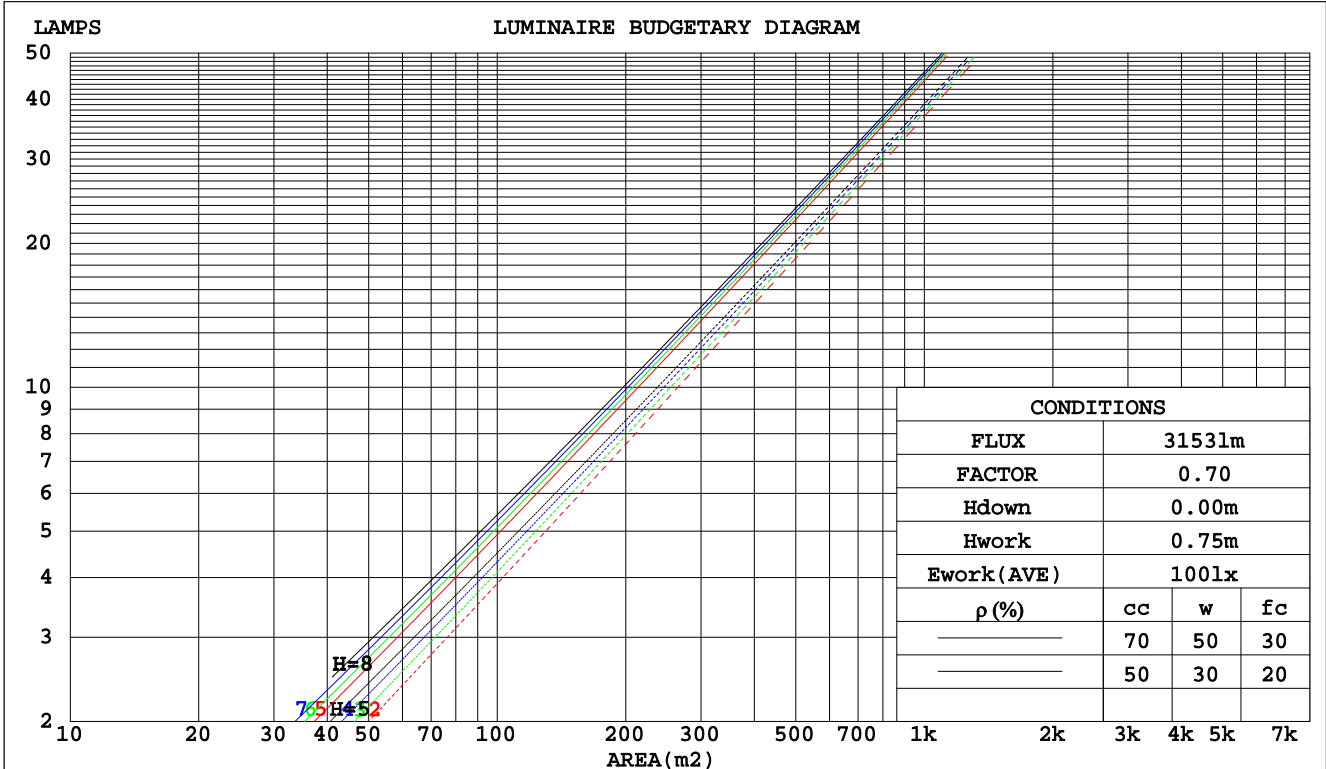
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: T150-25W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρw																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	1.10	1.11	1.09	1.08	1.07	1.06	1.05	1.03	1.02	1.01	.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.06	1.04	1.01	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95	.94
3.0	1.04	1.00	.97	1.02	.99	.97	.00	.97	.95	.98	.95	.94	.95	.94	.92	.91
4.0	.00	.96	.93	.99	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.88
5.0	.96	.92	.89	.95	.92	.89	.94	.91	.88	.92	.90	.88	.91	.89	.87	.86
6.0	.93	.89	.86	.92	.89	.86	.91	.88	.85	.90	.87	.85	.89	.86	.84	.83
7.0	.90	.86	.83	.90	.86	.83	.89	.85	.83	.88	.85	.83	.87	.84	.82	.81
8.0	.88	.84	.81	.87	.84	.81	.86	.83	.81	.86	.82	.80	.85	.82	.80	.79
9.0	.85	.81	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.83	.80	.78	.77
10.0	.83	.79	.77	.83	.79	.77	.82	.79	.76	.82	.78	.76	.81	.78	.76	.75



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γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
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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	.134	.076	.024	.127	.072	.023	.115	.066	.021	.103	.060	.019	.093	.054	.017	
2.0	.124	.068	.021	.118	.065	.020	.108	.060	.019	.099	.055	.017	.090	.051	.016	
3.0	.115	.061	.018	.110	.059	.018	.102	.055	.017	.094	.052	.016	.087	.048	.015	
4.0	.107	.056	.016	.104	.054	.016	.097	.051	.015	.090	.048	.015	.084	.046	.014	
5.0	.101	.052	.015	.098	.050	.015	.092	.048	.014	.086	.045	.014	.081	.043	.013	
6.0	.096	.048	.014	.093	.047	.013	.088	.045	.013	.083	.043	.013	.078	.041	.012	
7.0	.091	.045	.013	.088	.044	.013	.084	.042	.012	.079	.041	.012	.075	.039	.012	
8.0	.086	.042	.012	.084	.041	.012	.080	.040	.011	.077	.039	.011	.073	.037	.011	
9.0	.082	.040	.011	.081	.039	.011	.077	.038	.011	.074	.037	.011	.071	.036	.010	
10.0	.079	.038	.011	.077	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	

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	.168	.158	.148	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.128	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.115	.098	.083	.079	.068	.059	.046	.040	.034	.015	.013	.011	
4.0	.122	.098	.079	.105	.085	.069	.072	.059	.049	.042	.035	.029	.013	.011	.009	
5.0	.111	.085	.066	.096	.074	.058	.066	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.102	.075	.056	.088	.065	.049	.061	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.095	.067	.048	.081	.058	.042	.056	.041	.030	.033	.024	.018	.011	.008	.006	
8.0	.088	.060	.041	.076	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.082	.055	.036	.071	.047	.031	.049	.033	.022	.029	.020	.013	.009	.006	.004	
10.0	.077	.050	.032	.067	.043	.028	.046	.030	.020	.027	.018	.012	.009	.006	.004	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
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 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:35.90V I:0.7000A P:25.13W PF:1.000 Lamp Flux:3152.78x1 lm		
NAME: T150-25W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
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	6.2	6.8	6.4	7.0	7.1	6.2	6.8	6.4	7.0	7.1
3H	6.1	6.7	6.3	6.8	7.0	6.1	6.7	6.3	6.8	7.0
4H	6.0	6.6	6.3	6.8	7.0	6.0	6.6	6.3	6.8	7.0
6H	5.9	6.4	6.2	6.7	6.9	5.9	6.4	6.2	6.7	6.9
8H	5.9	6.4	6.2	6.6	6.9	5.9	6.4	6.2	6.6	6.9
12H	5.8	6.3	6.1	6.6	6.8	5.8	6.3	6.1	6.6	6.8
4H 2H	6.0	6.6	6.3	6.8	7.0	6.0	6.6	6.3	6.8	7.0
3H	5.9	6.4	6.2	6.6	6.9	5.9	6.4	6.2	6.6	6.9
4H	5.8	6.2	6.1	6.5	6.8	5.8	6.2	6.1	6.5	6.8
6H	5.7	6.1	6.1	6.4	6.8	5.7	6.1	6.1	6.4	6.8
8H	5.6	6.0	6.0	6.4	6.7	5.6	6.0	6.0	6.4	6.7
12H	5.6	5.9	6.0	6.3	6.7	5.6	5.9	6.0	6.3	6.7
8H 4H	5.6	6.0	6.0	6.4	6.7	5.6	6.0	6.0	6.4	6.7
6H	5.5	5.8	5.9	6.2	6.6	5.5	5.8	5.9	6.2	6.6
8H	5.5	5.7	5.9	6.2	6.6	5.5	5.7	5.9	6.2	6.6
12H	5.4	5.6	5.9	6.1	6.5	5.4	5.6	5.9	6.1	6.5
12H 4H	5.6	5.9	6.0	6.3	6.7	5.6	5.9	6.0	6.3	6.7
6H	5.5	5.7	5.9	6.2	6.6	5.5	5.7	5.9	6.2	6.6
8H	5.4	5.6	5.9	6.1	6.5	5.4	5.6	5.9	6.1	6.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 8.3					+ 2.4 / - 8.0				
1.5H	+ 3.5 / - 5.5					+ 3.2 / - 5.3				
2.0H	+ 5.3 / - 8.8					+ 5.2 / - 8.6				

CIE Pub.117 Corrected 3153 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.0)

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γ Range: 0 - 90DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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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	85	81	90	84	81	89	84	81	78
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	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

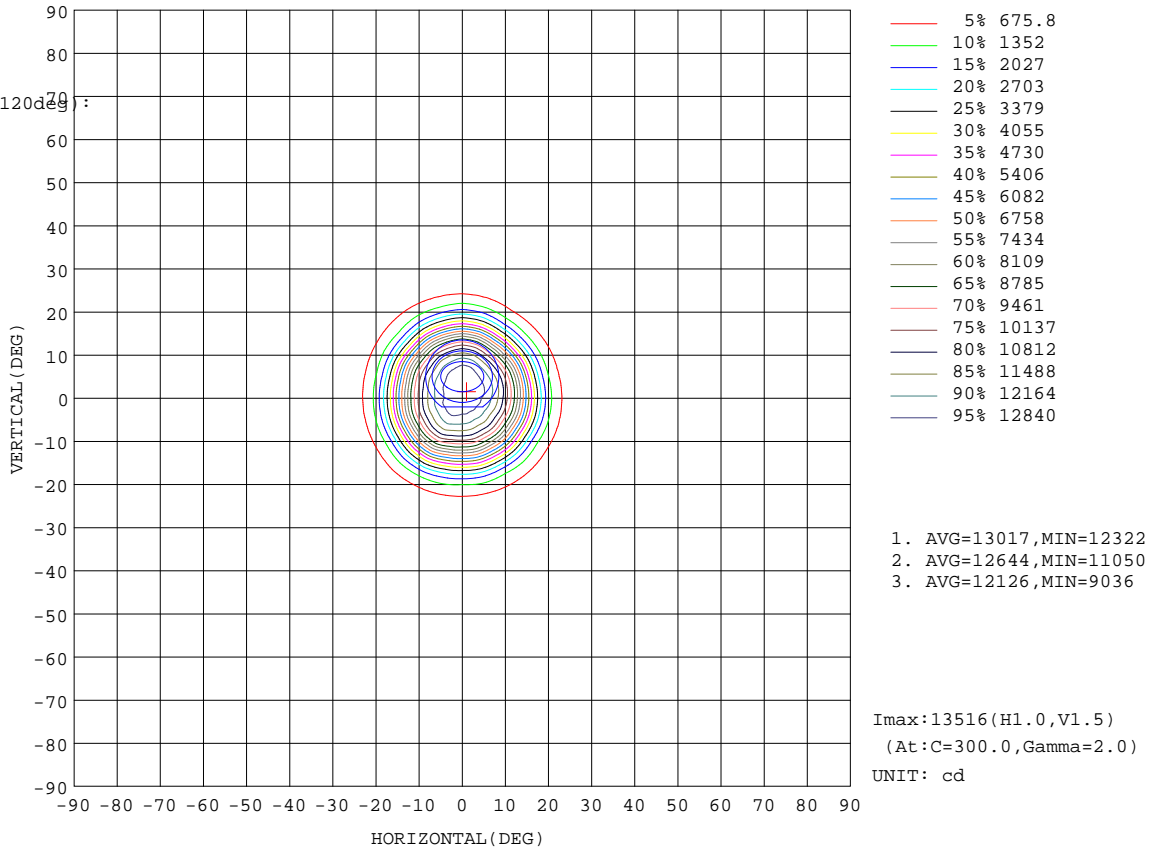
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SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

3119.9 lm
%lum = 99.0%
%lamp = 99.0%

Conical surface Flux(120deg):

3149.6 lm
%lum = 99.9%
%lamp = 99.9%



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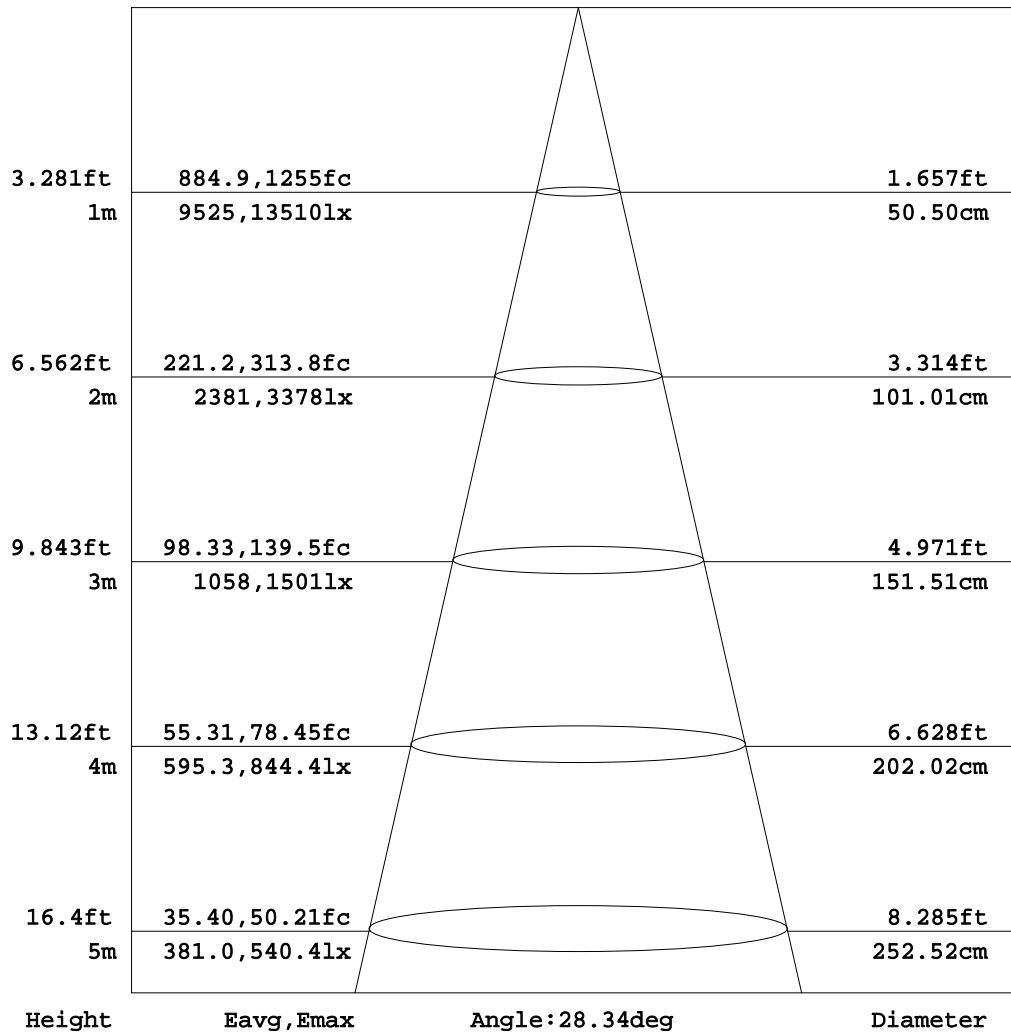
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AAI Figure

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Flux out:2149 lm



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

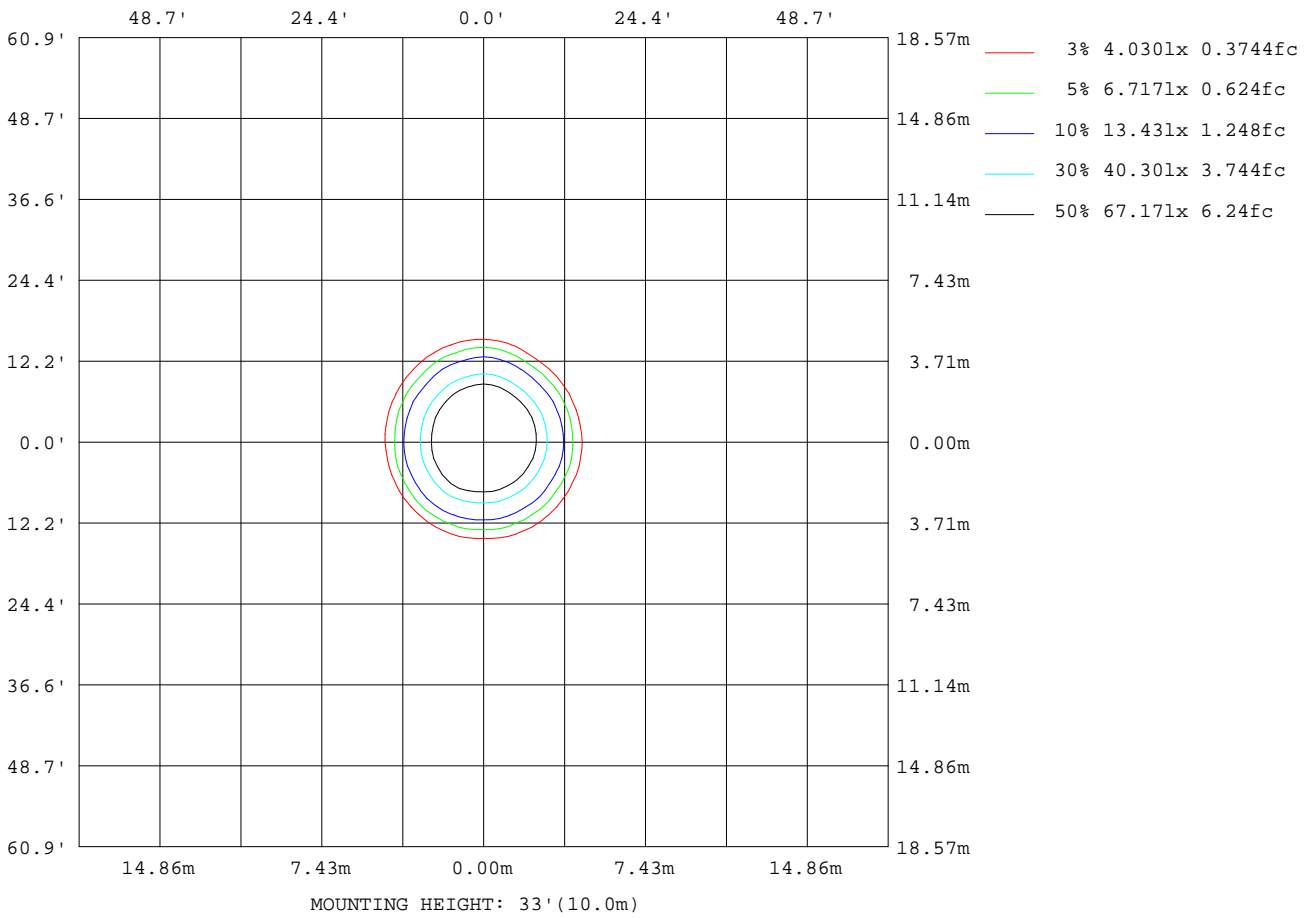
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ISOLUX DIAGRAM

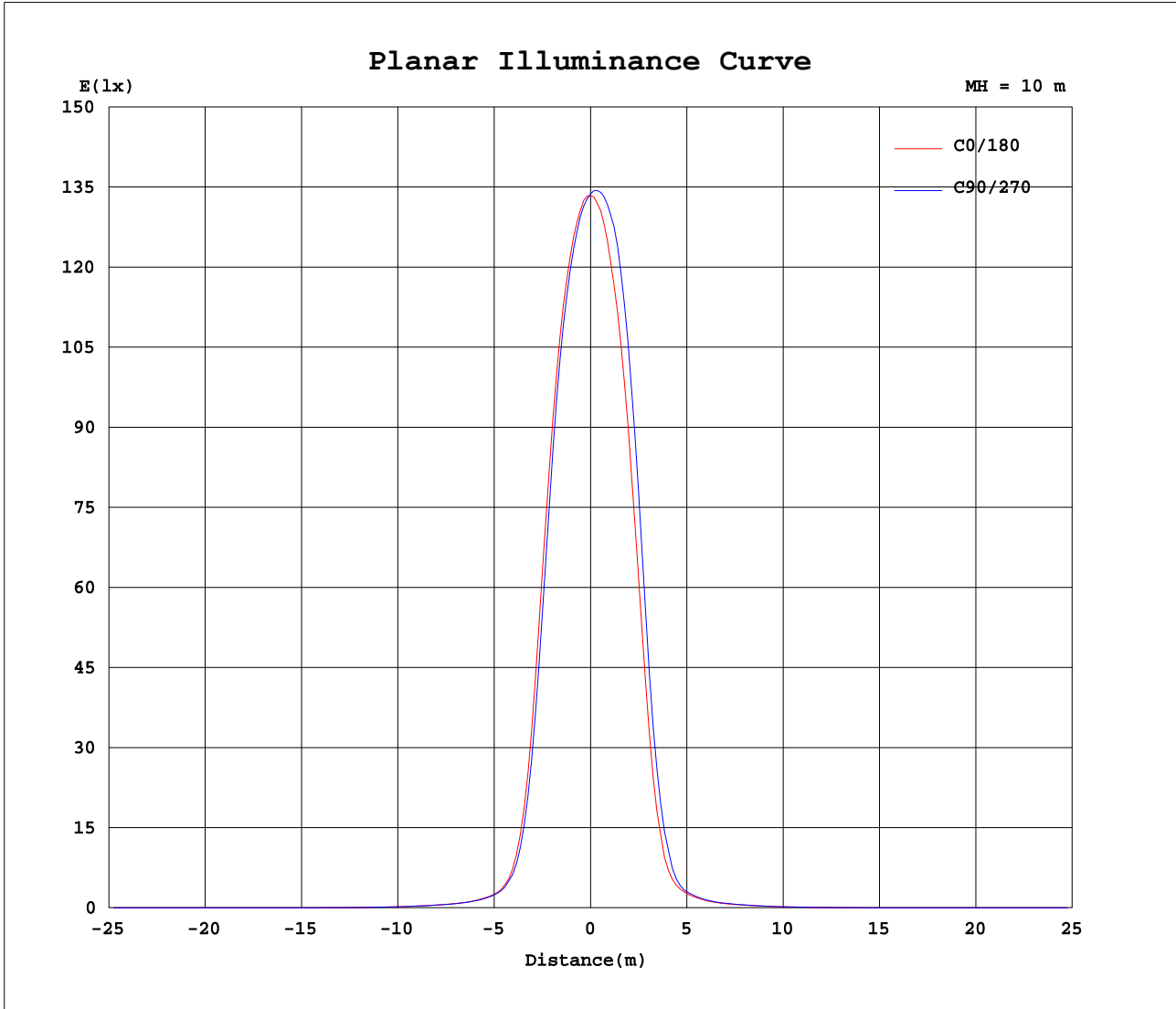
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:35.90V I:0.7000A P:25.13W PF:1.000 Lamp Flux:3152.78x1 lm		
NAME: T150-25W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 160mm*H100mm	
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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	1333	1333	1333	1334	1333	1335	1337	1342	1348	1349	1350	1351	1333	1333	1333	1334	1333	1335	1337
5	1271	1265	1251	1250	1240	1248	1248	1258	1276	1276	1271	1275	1264	1269	1288	1297	1312	1323	1333
10	1045	1028	1002	1003	988	999	994	1009	1057	1056	1037	1040	1029	1042	1078	1100	1145	1162	1182
15	586	571	536	533	510	516	504	523	583	589	574	581	575	588	633	655	704	715	740
20	166	164	141	149	135	146	136	151	158	170	156	166	166	162	178	185	213	222	236
25	44.6	46.0	46.0	46.7	45.2	44.3	42.4	43.0	42.7	43.4	42.5	43.1	47.0	47.6	49.8	50.9	54.7	57.3	55.3
30	24.1	24.3	23.6	23.7	23.1	23.1	22.6	22.7	22.7	22.6	22.2	22.5	24.5	24.4	25.4	25.7	26.8	26.5	26.8
35	14.7	14.8	14.5	14.6	14.3	14.5	14.3	14.4	14.2	14.0	13.7	14.0	14.4	14.4	15.0	14.9	15.3	15.3	15.7
40	9.88	9.81	9.77	9.96	9.87	9.75	9.71	9.67	9.30	9.21	9.04	9.27	9.36	9.37	9.65	9.73	9.84	9.71	10.0
45	5.67	5.71	5.66	5.80	5.73	5.74	5.70	5.71	5.49	5.45	5.32	5.45	5.52	5.48	5.61	5.55	5.56	5.45	5.66
50	2.97	3.06	3.06	3.15	3.10	3.14	3.07	3.08	2.89	2.89	2.81	2.84	2.88	2.86	2.93	2.86	2.87	2.80	2.86
55	1.38	1.46	1.46	1.52	1.49	1.50	1.44	1.44	1.33	1.33	1.29	1.31	1.32	1.31	1.36	1.34	1.34	1.29	1.31
60	0.46	0.50	0.52	0.56	0.55	0.54	0.50	0.49	0.45	0.45	0.41	0.42	0.43	0.43	0.46	0.46	0.46	0.42	0.42
65	0.23	0.25	0.26	0.28	0.27	0.27	0.25	0.24	0.22	0.22	0.21	0.21	0.22	0.23	0.25	0.25	0.25	0.23	0.22
70	0.12	0.13	0.14	0.15	0.14	0.14	0.13	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.13	0.13	0.12	0.11
75	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.05
80	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.01
85	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
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:2018-01-19

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:35.90V I:0.7000A P:25.13W PF:1.000 Lamp Flux:3152.78x1 lm		
NAME: T150-25W-830-30	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ160mm*H100mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: x10cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1342	1348	1349	1350	1351														
5	1331	1318	1307	1303	1294														
10	1169	1128	1106	1093	1070														
15	716	652	640	625	599														
20	220	181	172	171	162														
25	53.8	44.4	43.9	44.3	42.9														
30	25.7	23.9	23.6	23.9	23.5														
35	15.4	14.6	14.3	14.4	14.5														
40	9.89	9.63	9.37	9.53	9.78														
45	5.57	5.48	5.34	5.44	5.59														
50	2.80	2.83	2.76	2.85	2.89														
55	1.25	1.26	1.25	1.30	1.31														
60	0.40	0.40	0.39	0.42	0.42														
65	0.21	0.21	0.20	0.21	0.21														
70	0.11	0.10	0.10	0.10	0.11														
75	0.05	0.05	0.05	0.05	0.05														
80	0.02	0.01	0.02	0.01	0.02														
85	0.01	0.01	0.01	0.01	0.01														
90	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:2018-01-19

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	13332	13335	13331	13336	13333	13349	13370	13423	13485	13488
3.0	13117	13111	13026	13056	12987	13023	13002	13117	13217	13186
6.0	12406	12322	12140	12148	12046	12140	12148	12254	12449	12443
9.0	11102	10952	10675	10708	10569	10673	10656	10790	11182	11159
12.0	8876	8686	8366	8313	8130	8244	8133	8341	8920	8915
15.0	5864	5711	5356	5334	5100	5165	5036	5232	5827	5890
18.0	2932	2826	2578	2589	2438	2501	2438	2567	2878	2928
21.0	1237	1162	1046	1054	1008	1042	1022	1081	1153	1202
24.0	566.9	546.0	530.2	540.9	526.5	520.7	503.9	520.5	538.4	529.9
27.0	339.4	357.3	360.9	361.9	347.8	338.0	320.1	316.0	318.1	319.6
30.0	240.7	243.1	236.0	237.4	231.1	230.7	225.7	226.9	226.8	225.8
33.0	174.3	174.5	171.6	172.1	169.9	172.4	170.7	171.4	169.1	166.1
36.0	138.5	138.0	136.0	136.0	133.8	134.7	132.9	133.9	131.3	130.0
39.0	109.0	107.8	107.2	108.9	107.9	106.8	106.2	106.0	102.7	101.3
42.0	81.42	81.32	80.89	83.04	82.20	81.19	80.77	80.53	77.70	76.94
45.0	56.70	57.15	56.62	57.98	57.30	57.40	56.98	57.14	54.94	54.50
48.0	39.36	40.01	39.86	40.69	40.27	40.66	40.06	40.21	38.22	38.15
51.0	25.67	26.46	26.57	27.47	27.11	27.19	26.61	26.61	25.07	25.09
54.0	16.58	17.37	17.33	18.04	17.68	17.86	17.19	17.29	15.99	16.02
57.0	9.130	9.713	9.841	10.40	10.14	10.11	9.544	9.506	8.808	8.877
60.0	4.584	4.955	5.155	5.564	5.474	5.378	4.986	4.894	4.460	4.466
63.0	2.930	3.167	3.329	3.558	3.513	3.420	3.198	3.110	2.852	2.821
66.0	1.988	2.160	2.286	2.464	2.413	2.346	2.181	2.112	1.934	1.905
69.0	1.338	1.452	1.555	1.669	1.644	1.588	1.476	1.415	1.301	1.269
72.0	0.8785	0.9498	1.030	1.103	1.091	1.044	0.9748	0.9258	0.8565	0.8276
75.0	0.5500	0.5852	0.6442	0.6835	0.6836	0.6442	0.6092	0.5699	0.5347	0.5110
78.0	0.3091	0.3143	0.3530	0.3623	0.3749	0.3448	0.3354	0.3056	0.3003	0.2772
81.0	0.1513	0.1354	0.1580	0.1462	0.1602	0.1867	0.1558	0.1714	0.1426	0.1559
84.0	0.1213	0.1234	0.1203	0.1289	0.1225	0.1513	0.1239	0.1426	0.1203	0.1326
87.0	0.1159	0.1115	0.1181	0.1115	0.1181	0.1159	0.1224	0.1137	0.1159	0.1093
90.0	0.1137	0.1137	0.1115	0.1115	0.1159	0.1159	0.1181	0.1137	0.1137	0.1093
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	13500	13510	13332	13335	13331	13336	13349	13370	13423	13488
3.0	13185	13206	13117	13125	13208	13262	13345	13398	13456	13478
6.0	12348	12396	12283	12375	12596	12725	12969	13069	13186	13195
9.0	10985	11016	10938	11038	11397	11580	11951	12115	12338	12224
12.0	8774	8816	8699	8865	9295	9550	10030	10181	10430	10239
15.0	5739	5810	5749	5882	6332	6554	7042	7155	7404	7157
18.0	2812	2869	2870	2922	3202	3295	3688	3799	3982	3765
21.0	1142	1163	1171	1200	1379	1377	1664	1663	1767	1641
24.0	536.3	525.6	559.5	585.8	597.0	647.1	686.6	688.0	710.6	653.3
27.0	313.3	316.7	353.1	358.9	379.1	387.5	405.9	399.6	397.3	369.8
30.0	222.1	224.5	244.7	243.9	253.7	257.5	267.5	264.8	267.7	256.5
33.0	162.2	166.6	173.0	172.3	179.5	180.0	185.2	184.8	188.8	184.6
36.0	127.3	130.4	133.6	133.9	138.2	138.0	140.7	141.7	145.3	143.9
39.0	99.38	102.2	103.3	103.8	106.7	107.5	108.8	108.2	111.3	110.0
42.0	75.25	77.14	77.82	77.97	79.54	80.12	80.34	79.24	81.71	81.16
45.0	53.21	54.51	55.15	54.78	56.06	55.52	55.62	54.53	56.59	55.66
48.0	37.09	37.82	38.39	37.96	38.77	38.10	38.06	37.36	38.56	37.94
51.0	24.40	24.63	24.90	24.90	25.37	25.03	25.02	24.24	24.52	24.11
54.0	15.49	15.75	15.89	15.75	16.36	16.08	16.09	15.48	15.72	15.23
57.0	8.473	8.569	8.580	8.549	8.975	8.818	8.859	8.335	8.359	8.041
60.0	4.128	4.238	4.280	4.327	4.617	4.613	4.591	4.247	4.157	3.954
63.0	2.718	2.782	2.860	2.958	3.168	3.190	3.155	2.923	2.825	2.680
66.0	1.844	1.881	1.928	2.016	2.175	2.209	2.175	2.009	1.924	1.821
69.0	1.235	1.254	1.282	1.353	1.469	1.504	1.478	1.366	1.297	1.228
72.0	0.8106	0.8166	0.8228	0.8760	0.9472	0.9942	0.9648	0.9000	0.8448	0.8102
75.0	0.5083	0.4979	0.4910	0.5323	0.5652	0.6002	0.5849	0.5563	0.5194	0.4994
78.0	0.2806	0.2663	0.2464	0.2718	0.2790	0.3090	0.2900	0.2893	0.2638	0.2608
81.0	0.1381	0.1481	0.0984	0.1118	0.0983	0.1141	0.1026	0.1163	0.1005	0.1140
84.0	0.1181	0.1276	0.0896	0.1050	0.0875	0.1028	0.0896	0.1028	0.0940	0.1028
87.0	0.1159	0.1071	0.0896	0.1028	0.0875	0.1006	0.0896	0.1028	0.0940	0.1028
90.0	0.1137	0.1071	0.0896	0.0918	0.0875	0.0918	0.0896	0.0918	0.0940	0.0918
G/C	300.0	315.0	330.0	345.0						
0.0	13485	13488	13500	13510						
3.0	13455	13424	13410	13344						
6.0	13018	12864	12788	12667						
9.0	11870	11658	11536	11348						
12.0	9739	9440	9362	9110						
15.0	6522	6399	6252	5993						
18.0	3267	3083	3069	2928						
21.0	1384	1258	1260	1199						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2018-01-19

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	550.0	564.1	545.9	548.6
27.0	335.4	331.8	335.2	327.2
30.0	239.3	236.4	238.9	234.6
33.0	174.9	169.7	171.5	172.8
36.0	136.6	133.4	134.4	135.6
39.0	106.5	103.6	105.1	107.4
42.0	79.02	76.99	78.25	80.51
45.0	54.80	53.36	54.36	55.93
48.0	37.65	36.75	37.83	38.71
51.0	24.24	23.90	24.51	24.61
54.0	15.30	15.12	15.70	15.71
57.0	8.221	8.058	8.486	8.603
60.0	3.997	3.906	4.151	4.235
63.0	2.663	2.603	2.687	2.728
66.0	1.799	1.756	1.804	1.841
69.0	1.201	1.175	1.190	1.226
72.0	0.7771	0.7664	0.7662	0.8015
75.0	0.4649	0.4665	0.4670	0.4994
78.0	0.2355	0.2520	0.2465	0.2760
81.0	0.0962	0.1140	0.1006	0.1293
84.0	0.0918	0.1041	0.0984	0.1064
87.0	0.0918	0.1028	0.0984	0.1050
90.0	0.0918	0.0940	0.0918	0.0962

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2018-01-19

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: