

LED Tracklight PURE Art-15W-930-18D



Light Output Ratio:	100.0%	
Luminaire Power:	15.05 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

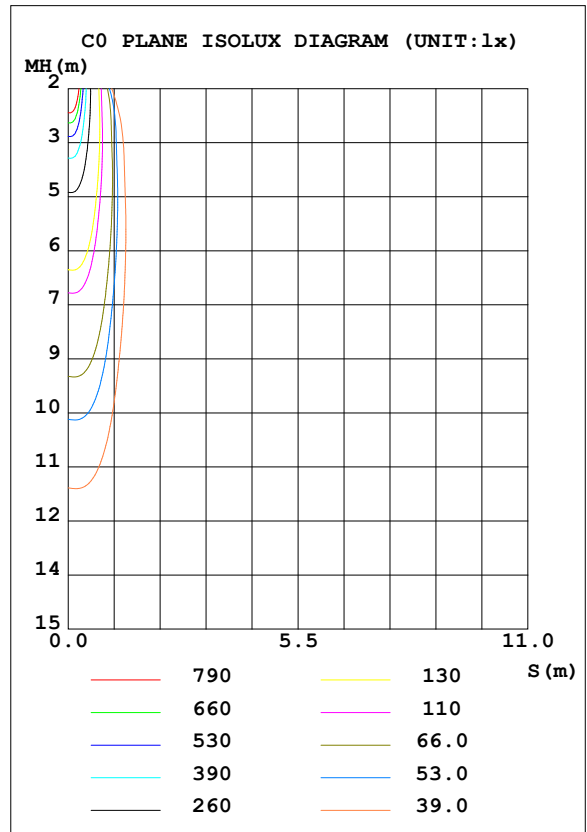
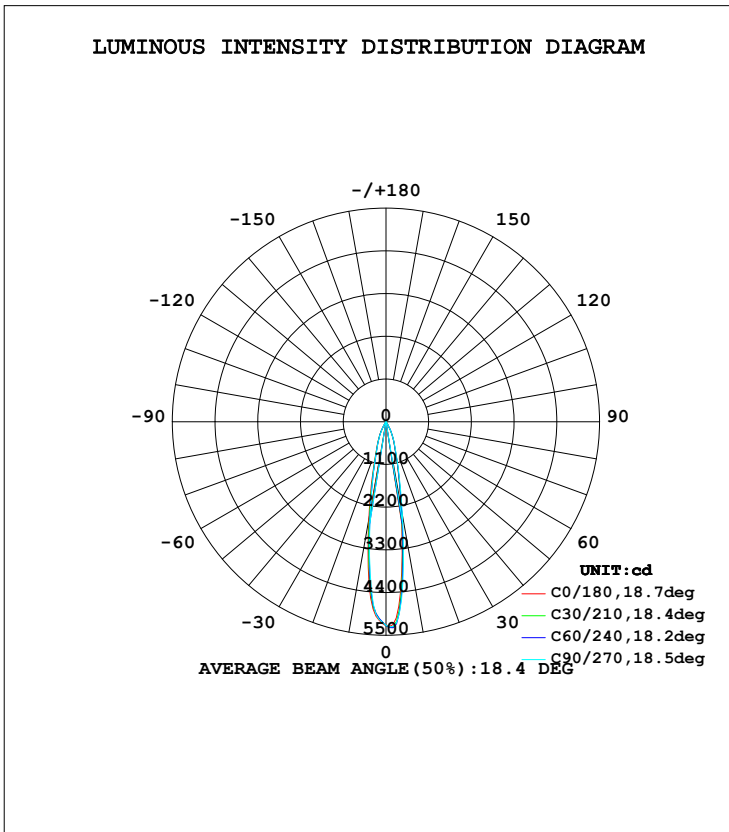
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0713A P:15.05W PF:0.9564 Lamp Flux:925.665x1 lm		
NAME: PURE Art-15W-930-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.50 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	5310	S/MH (C0/180)	0.34
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	925.67	η UP, DN (C0-180)	0.0, 50.7
NOMINAL FLUX (lm)	925.665	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



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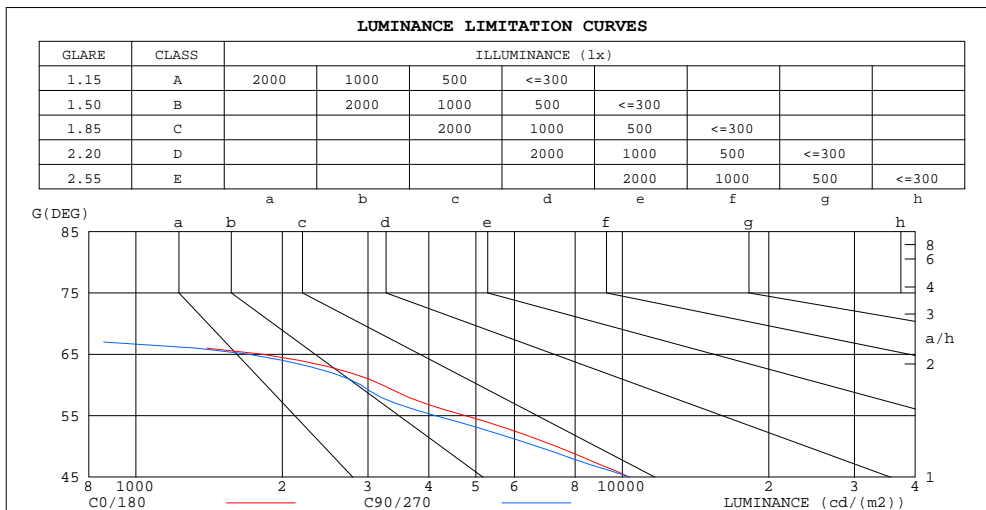
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\#lum, lamp$
10	2258	2362	2420	2554	2562	2345	2332	2296	0- 10	352.2	352.2	38.1,38.1
20	635.5	646.4	668.1	721.8	676.2	636.4	642.5	661.4	10- 20	346.1	698.3	75.4,75.4
30	114.0	154.9	146.4	153.9	145.4	144.8	142.2	121.0	20- 30	171.2	869.6	93.9,93.9
40	25.25	27.45	27.61	26.74	26.91	27.49	27.69	26.09	30- 40	34.16	903.7	97.6,97.6
50	11.18	11.38	10.19	11.84	11.38	11.61	10.94	10.67	40- 50	14.01	917.7	99.1,99.1
60	3.815	3.459	3.444	3.593	3.673	3.604	3.690	3.860	50- 60	5.911	923.6	99.8,99.8
70	0.3786	0.3517	0.4005	0.4085	0.3647	0.3129	0.3189	0.3895	60- 70	1.715	925.3	100,100
80	0.1445	0.1223	0.1554	0.1332	0.1092	0.1138	0.1026	0.1423	70- 80	0.2446	925.6	100,100
90	0.0350	0.0328	0.0350	0.0328	0.0219	0.0219	0.0262	0.0219	80- 90	0.0736	925.7	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	360	391
80	350	377
75	392	427
70	466	493
65	1818	1704
60	3213	2901
55	4757	4129
50	7321	6679
45	10339	10363

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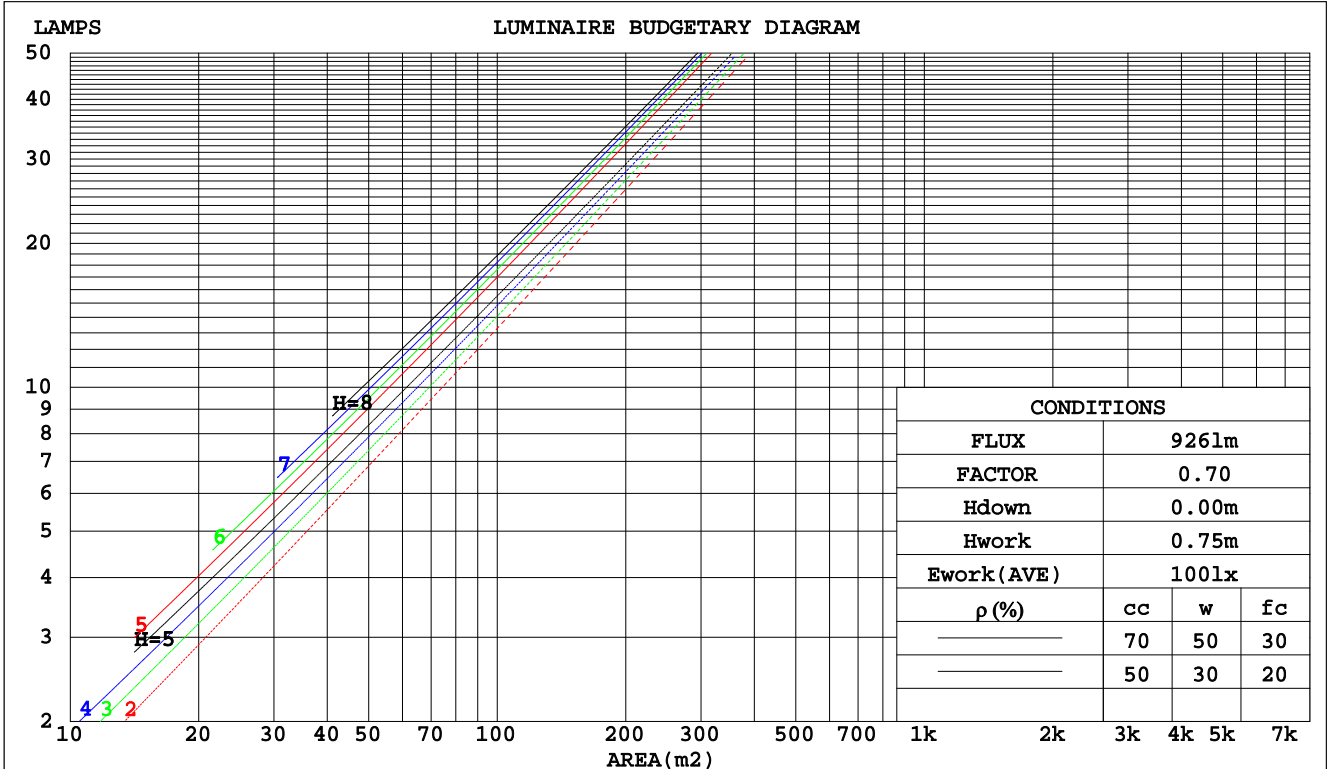
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	.97
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.96	1.02	.98	.96	.99	.96	.94	.97	.95	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.93	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.88	.85	.91	.87	.84	.90	.86	.84	.88	.85	.83	.87	.85	.83	.82
7.0	.89	.85	.82	.88	.84	.81	.87	.84	.81	.86	.83	.81	.85	.82	.80	.79
8.0	.86	.82	.79	.86	.82	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.77
9.0	.84	.79	.77	.83	.79	.77	.82	.79	.76	.82	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.73



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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	.138	.078	.025	.131	.075	.024	.119	.068	.022	.108	.062	.020	.097	.056	.018	
2.0	.128	.070	.022	.123	.068	.021	.113	.063	.019	.103	.058	.018	.094	.053	.017	
3.0	.120	.064	.019	.115	.062	.019	.107	.058	.018	.099	.054	.017	.091	.051	.016	
4.0	.112	.058	.017	.108	.057	.017	.101	.054	.016	.095	.051	.015	.088	.048	.015	
5.0	.106	.054	.016	.103	.053	.015	.096	.050	.015	.091	.048	.014	.085	.046	.014	
6.0	.100	.050	.014	.097	.049	.014	.092	.047	.014	.087	.045	.013	.082	.043	.013	
7.0	.095	.047	.013	.093	.046	.013	.088	.044	.013	.084	.043	.012	.080	.041	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012	.077	.040	.012	
9.0	.086	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.074	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.066	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.055	.089	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.096	.067	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.053	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.036	.072	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

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UGR(Unified Glare Rating) Table

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NAME: PURE Art-15W-930-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ55mm*H150mm	
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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	10.3	10.9	10.5	11.1	11.2	10.5	11.1	10.7	11.3	11.4
3H	10.2	10.8	10.4	11.0	11.2	10.3	11.0	10.6	11.1	11.3
4H	10.1	10.7	10.4	10.9	11.1	10.3	10.9	10.5	11.1	11.3
6H	10.0	10.6	10.3	10.8	11.0	10.2	10.7	10.5	11.0	11.2
8H	10.0	10.5	10.3	10.8	11.0	10.1	10.7	10.4	10.9	11.2
12H	9.9	10.5	10.3	10.7	11.0	10.1	10.6	10.4	10.9	11.1
4H 2H	10.2	10.8	10.4	11.0	11.2	10.3	10.9	10.6	11.1	11.3
3H	10.1	10.6	10.4	10.8	11.1	10.2	10.7	10.5	11.0	11.2
4H	10.0	10.4	10.3	10.7	11.0	10.1	10.6	10.4	10.9	11.2
6H	9.9	10.3	10.2	10.6	11.0	10.0	10.4	10.4	10.8	11.1
8H	9.8	10.2	10.2	10.6	10.9	10.0	10.4	10.4	10.7	11.1
12H	9.8	10.1	10.2	10.5	10.9	9.9	10.3	10.3	10.6	11.0
8H 4H	9.8	10.2	10.2	10.5	10.9	10.0	10.4	10.3	10.7	11.1
6H	9.7	10.0	10.1	10.4	10.8	9.9	10.2	10.3	10.6	11.0
8H	9.6	9.9	10.1	10.4	10.8	9.8	10.1	10.2	10.5	10.9
12H	9.6	9.8	10.1	10.3	10.7	9.7	10.0	10.2	10.4	10.9
12H 4H	9.8	10.1	10.2	10.5	10.9	9.9	10.3	10.3	10.6	11.0
6H	9.6	9.9	10.1	10.3	10.8	9.8	10.1	10.2	10.5	10.9
8H	9.6	9.8	10.1	10.3	10.7	9.7	10.0	10.2	10.4	10.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.2					+ 2.1 / - 5.0				
1.5H	+ 2.3 / - 3.5					+ 2.8 / - 3.6				
2.0H	+ 3.9 / - 4.6					+ 4.1 / - 4.7				

CIE Pub.117 Corrected 925.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.3)

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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	90	84	81	89	84	80	77
0.80	97	92	88	97	91	88	95	91	88	84
1.00	101	96	93	100	96	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	104	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

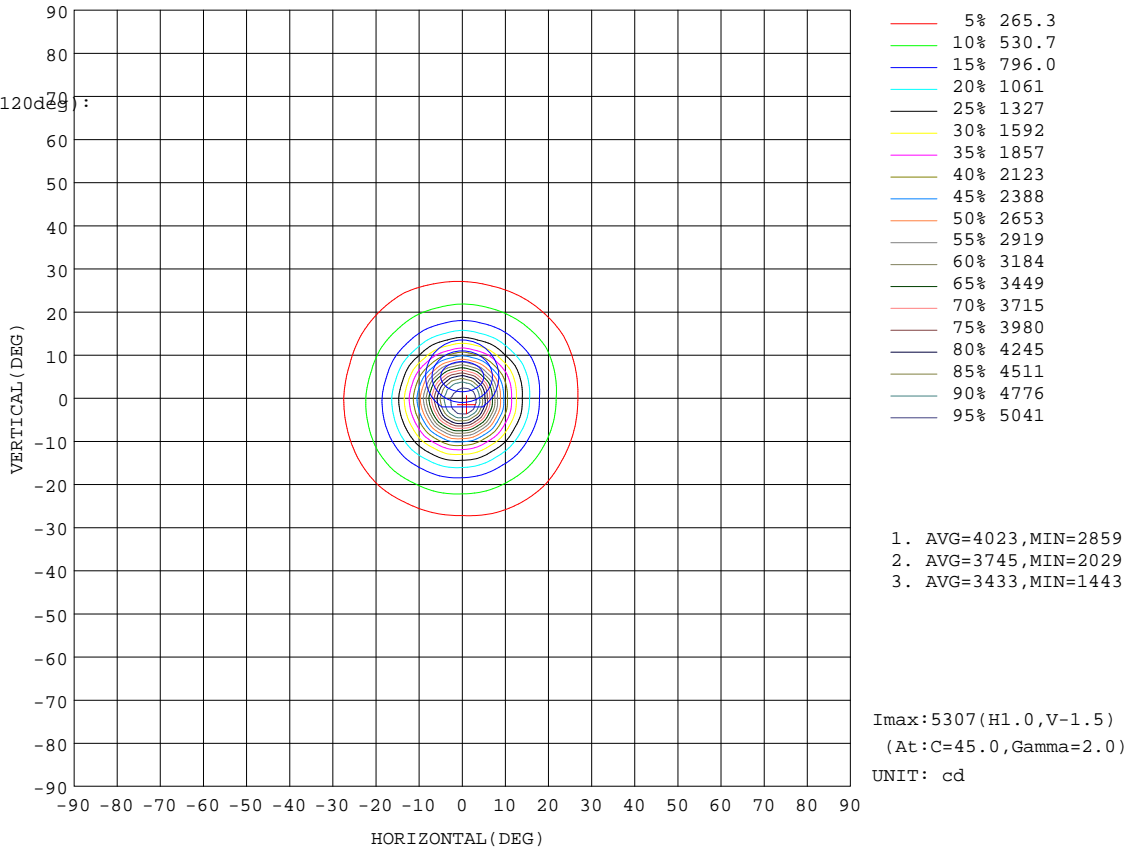
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Conical surface Flux(90deg):

911.96 lm
%lum = 98.5%
%lamp = 98.5%

Conical surface Flux(120deg):

923.63 lm
%lum = 99.8%
%lamp = 99.8%



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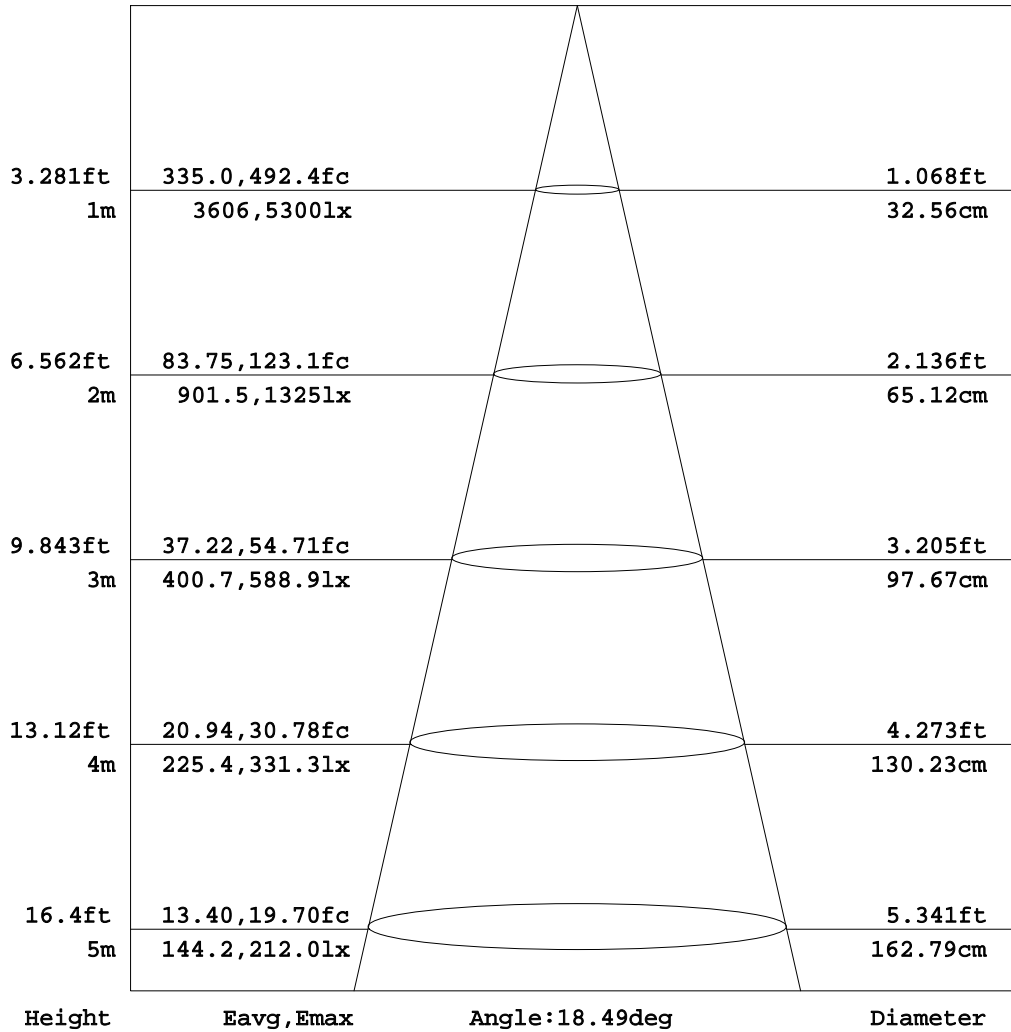
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AAI Figure

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Flux out:352.2 lm



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

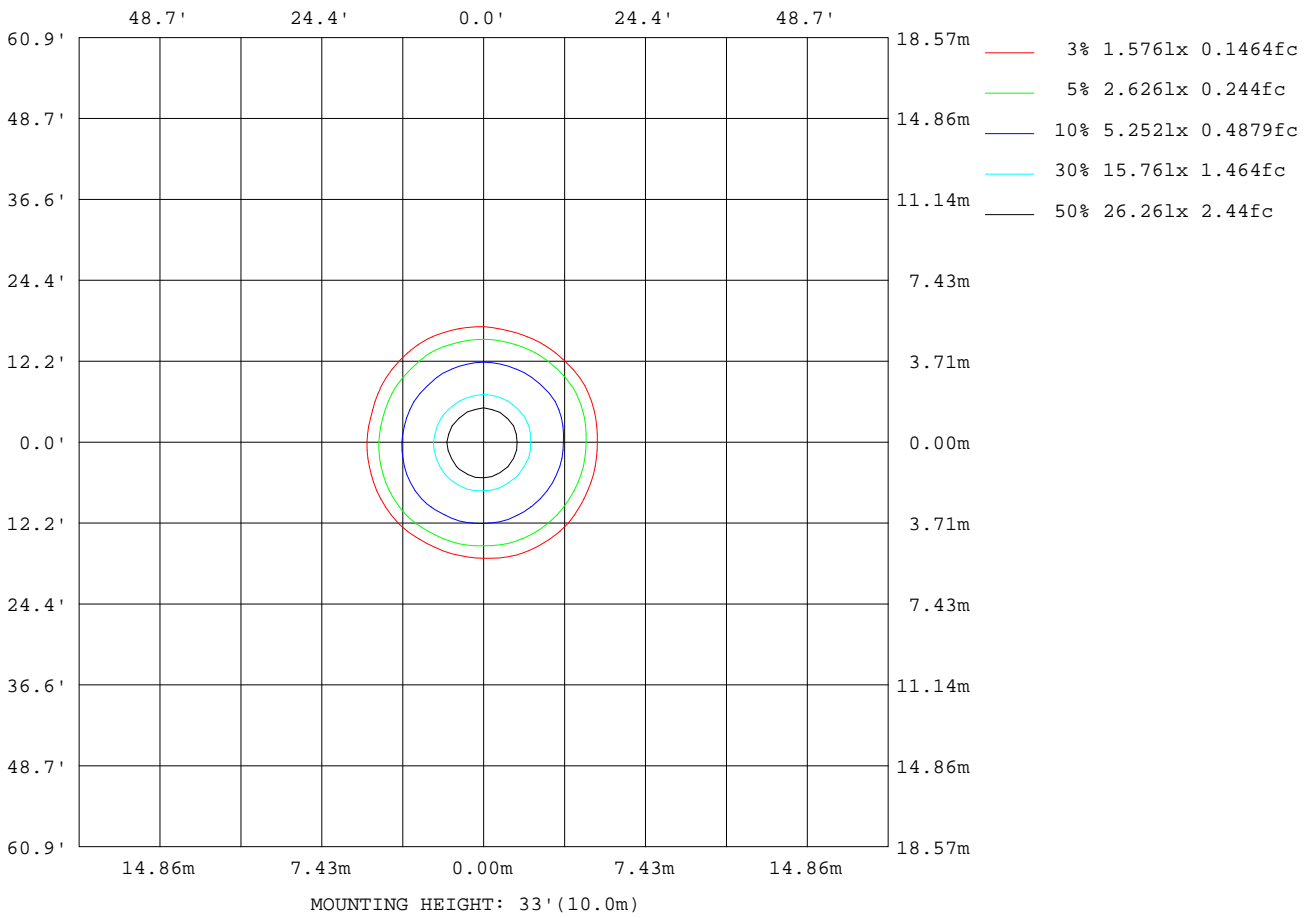
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ISOLUX DIAGRAM

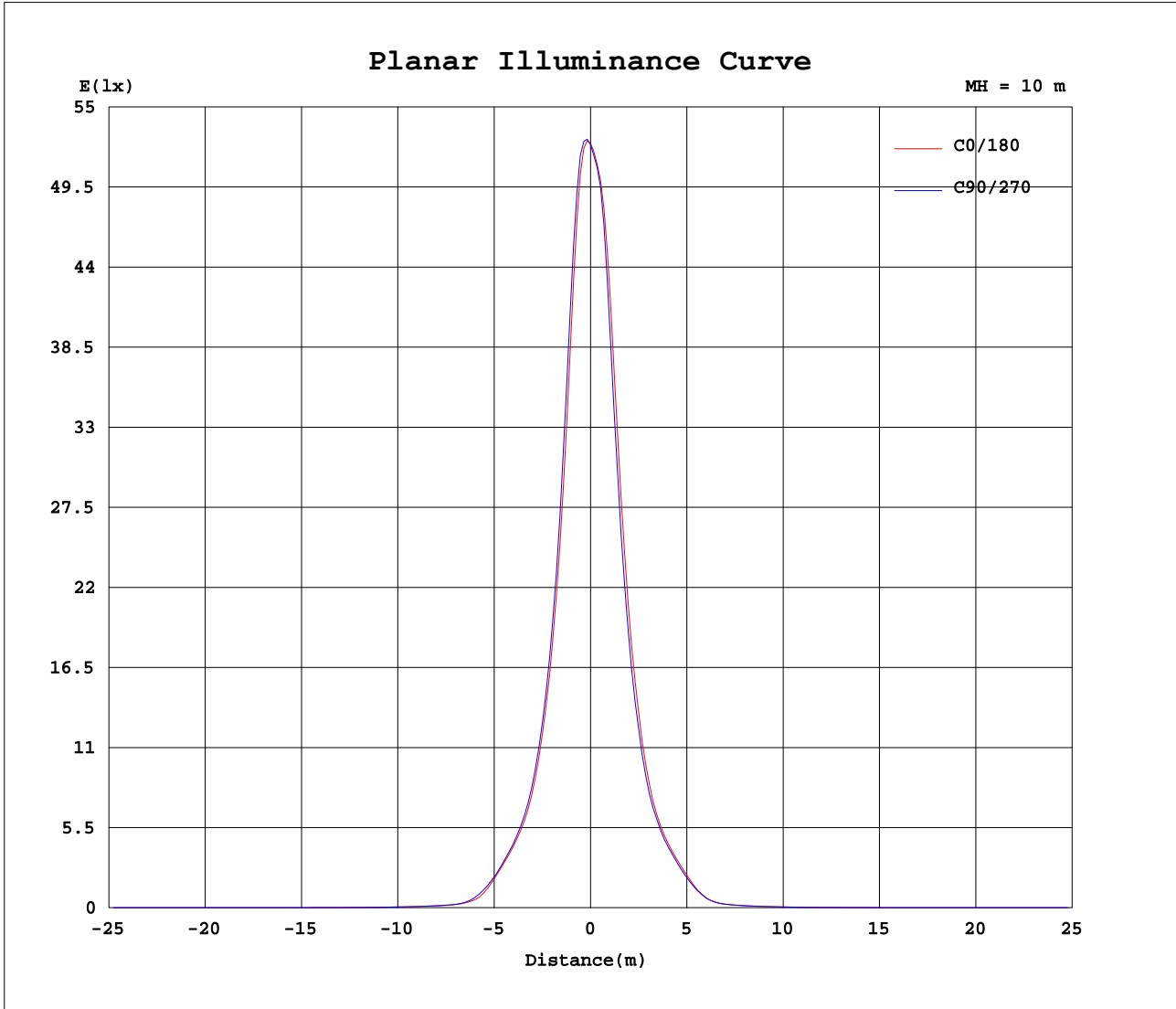
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	5250	5245	5253	5243	5249	5238	5242	5231	5232	5226	5223	5228	5250	5245	5253	5243	5249	5238	5242
5	4362	4479	4470	4569	4540	4629	4605	4677	4632	4651	4584	4551	4555	4471	4472	4385	4399	4314	4349
10	2258	2326	2285	2362	2339	2412	2420	2518	2493	2554	2505	2525	2562	2476	2448	2345	2347	2279	2332
15	1149	1162	1149	1179	1165	1212	1224	1269	1275	1313	1290	1277	1273	1212	1205	1153	1161	1136	1171
20	635	641	640	646	648	661	668	688	698	722	715	694	676	653	657	636	644	633	643
25	363	367	366	373	378	384	379	392	396	417	417	404	394	377	381	369	380	368	368
30	114	131	138	155	146	159	146	143	133	154	146	147	145	135	155	145	152	139	142
35	41.1	42.4	43.8	44.3	43.0	45.0	45.1	45.1	44.0	44.3	43.5	44.1	46.0	44.8	47.2	45.2	44.5	44.2	45.1
40	25.3	26.1	27.5	27.5	27.7	27.4	27.6	27.4	26.1	26.7	27.4	27.2	26.9	27.4	29.1	27.5	27.9	27.0	27.7
45	17.4	17.3	17.5	18.4	18.4	17.9	17.4	17.9	18.1	18.4	18.6	18.5	18.2	17.9	18.4	18.5	18.4	17.9	17.8
50	11.2	10.7	10.5	11.4	10.9	10.9	10.2	10.3	11.3	11.8	11.8	11.6	11.4	11.1	11.1	11.6	11.7	11.5	10.9
55	6.48	6.07	5.79	6.09	5.85	5.71	5.62	5.52	6.35	6.80	6.56	6.51	6.61	6.37	6.32	6.48	6.81	6.37	6.26
60	3.81	3.73	3.47	3.46	3.29	3.24	3.44	3.26	3.52	3.59	3.45	3.41	3.67	3.69	3.66	3.60	3.71	3.63	3.69
65	1.82	1.81	1.66	1.89	1.63	1.60	1.71	1.82	1.82	1.77	1.76	1.77	1.80	1.86	1.72	1.61	1.57	1.66	1.63
70	0.38	0.36	0.36	0.35	0.38	0.38	0.40	0.39	0.41	0.41	0.42	0.38	0.36	0.35	0.31	0.31	0.29	0.31	0.32
75	0.24	0.22	0.24	0.22	0.25	0.24	0.26	0.24	0.26	0.24	0.25	0.22	0.21	0.21	0.18	0.19	0.17	0.19	0.20
80	0.14	0.12	0.14	0.12	0.14	0.13	0.16	0.13	0.16	0.13	0.15	0.12	0.11	0.12	0.09	0.11	0.09	0.12	0.10
85	0.07	0.06	0.08	0.05	0.08	0.06	0.08	0.06	0.08	0.06	0.08	0.06	0.05	0.07	0.04	0.06	0.04	0.06	0.04
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	0.03

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:2017-08-30	Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.0713A P:15.05W PF:0.9564 Lamp Flux:925.665x1 lm		
NAME: PURE Art-15W-930-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	5231	5232	5226	5223	5228														
5	4288	4351	4321	4414	4398														
10	2283	2327	2296	2338	2298														
15	1141	1173	1171	1208	1183														
20	634	651	661	686	662														
25	364	374	381	398	383														
30	124	126	121	137	123														
35	42.9	42.7	41.7	42.5	41.7														
40	27.0	25.8	26.1	26.9	26.1														
45	17.7	17.3	17.1	17.9	17.7														
50	10.8	11.0	10.7	11.2	11.1														
55	6.37	6.56	6.36	6.48	6.52														
60	3.87	3.86	3.86	3.86	3.95														
65	1.79	1.75	1.93	1.95	2.03														
70	0.35	0.36	0.39	0.39	0.39														
75	0.22	0.22	0.24	0.23	0.25														
80	0.13	0.12	0.14	0.13	0.15														
85	0.07	0.05	0.07	0.05	0.07														
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	5250	5245	5253	5243	5249	5238	5242	5231	5232	5226
3.0	5062	5138	5151	5210	5208	5216	5189	5172	5123	5089
6.0	3895	4009	3993	4098	4083	4183	4170	4261	4228	4262
9.0	2595	2670	2644	2727	2698	2794	2799	2900	2870	2935
12.0	1710	1751	1735	1774	1757	1813	1837	1898	1894	1944
15.0	1149	1162	1149	1179	1165	1212	1224	1269	1275	1313
18.0	785.2	793.2	788.6	807.4	798.9	824.3	834.1	864.1	867.8	899.0
21.0	576.7	577.4	579.5	584.9	588.3	598.7	604.0	620.4	622.6	651.7
24.0	415.3	417.0	416.1	422.1	426.2	434.2	434.1	446.8	448.8	471.5
27.0	254.5	259.0	266.7	286.2	291.1	289.7	275.6	283.9	285.2	307.7
30.0	114.0	131.5	138.1	154.9	145.9	158.5	146.4	142.8	132.5	153.9
33.0	59.41	61.38	65.15	64.17	65.24	66.24	65.66	66.78	64.87	64.40
36.0	36.35	37.59	39.20	39.47	38.29	39.76	39.81	40.06	38.38	38.70
39.0	27.33	28.16	29.84	29.88	29.88	29.87	30.13	29.77	28.25	28.92
42.0	21.80	22.39	23.26	23.71	23.74	23.17	23.29	23.49	22.75	23.11
45.0	17.36	17.30	17.54	18.40	18.36	17.88	17.40	17.93	18.05	18.39
48.0	13.38	13.03	12.78	13.74	13.57	13.32	12.53	12.95	13.72	14.36
51.0	10.11	9.689	9.369	10.22	9.781	9.730	9.126	9.105	10.17	10.77
54.0	7.330	6.898	6.648	7.033	6.723	6.618	6.407	6.311	7.202	7.739
57.0	5.077	4.815	4.491	4.651	4.463	4.319	4.425	4.238	4.898	5.161
60.0	3.815	3.731	3.475	3.459	3.294	3.240	3.444	3.265	3.515	3.593
63.0	2.677	2.615	2.427	2.581	2.311	2.260	2.455	2.570	2.525	2.424
66.0	1.352	1.402	1.240	1.503	1.244	1.267	1.286	1.420	1.413	1.429
69.0	0.4158	0.3911	0.4005	0.3867	0.4115	0.4151	0.4377	0.4304	0.4532	0.4479
72.0	0.3174	0.2971	0.3086	0.2949	0.3218	0.3168	0.3393	0.3277	0.3480	0.3300
75.0	0.2408	0.2207	0.2364	0.2185	0.2451	0.2360	0.2627	0.2425	0.2605	0.2403
78.0	0.1817	0.1573	0.1773	0.1616	0.1817	0.1638	0.1927	0.1726	0.1905	0.1704
81.0	0.1292	0.1049	0.1292	0.1049	0.1270	0.1092	0.1336	0.1157	0.1358	0.1136
84.0	0.0898	0.0655	0.0855	0.0655	0.0855	0.0677	0.0899	0.0720	0.0920	0.0699
87.0	0.0570	0.0372	0.0570	0.0372	0.0592	0.0393	0.0613	0.0437	0.0635	0.0393
90.0	0.0350	0.0328	0.0350	0.0328	0.0350	0.0350	0.0350	0.0350	0.0350	0.0328
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5223	5228	5245	5253	5243	5249	5238	5242	5231	5226
3.0	5044	5013	5012	4957	4956	4928	4945	4934	4964	4946
6.0	4180	4167	4194	4086	4077	3973	3986	3890	3921	3853
9.0	2871	2891	2933	2831	2820	2695	2703	2625	2671	2618
12.0	1918	1925	1937	1868	1850	1771	1765	1721	1767	1728
15.0	1290	1277	1273	1212	1205	1153	1161	1136	1171	1141
18.0	888.2	868.1	851.2	813.0	814.2	792.4	798.3	782.8	798.7	790.0
21.0	644.9	624.6	609.5	590.0	588.9	576.7	581.5	572.4	575.7	576.0
24.0	472.5	456.0	444.4	426.6	428.4	413.3	423.1	413.1	419.4	416.4
27.0	303.4	295.7	290.5	273.1	283.3	286.9	295.4	276.6	268.5	256.1
30.0	146.4	146.9	145.4	135.3	154.8	144.8	152.1	139.2	142.2	123.8
33.0	67.52	63.28	66.47	67.95	68.32	68.38	63.40	66.44	63.22	63.17
36.0	38.56	39.54	40.36	39.91	41.87	40.37	39.30	39.11	39.96	38.20
39.0	29.52	29.56	29.37	29.87	31.90	29.87	29.94	29.20	30.47	29.20
42.0	23.85	23.47	23.11	23.37	24.79	24.12	23.76	23.08	23.69	23.13
45.0	18.61	18.47	18.20	17.95	18.43	18.48	18.43	17.92	17.84	17.70
48.0	14.50	14.06	13.72	13.47	13.49	13.90	13.94	13.72	13.32	13.21
51.0	10.74	10.50	10.25	9.955	9.955	10.46	10.64	10.42	9.857	9.772
54.0	7.599	7.453	7.464	7.192	7.158	7.368	7.698	7.312	7.054	7.150
57.0	4.919	4.903	5.114	5.010	4.949	5.041	5.282	4.955	5.001	5.132
60.0	3.452	3.414	3.673	3.691	3.658	3.604	3.714	3.630	3.690	3.873
63.0	2.411	2.391	2.582	2.655	2.533	2.348	2.365	2.461	2.468	2.617
66.0	1.397	1.413	1.370	1.390	1.306	1.226	1.164	1.209	1.174	1.338
69.0	0.4576	0.4238	0.4062	0.3874	0.3494	0.3458	0.3233	0.3457	0.3538	0.3873
72.0	0.3416	0.3124	0.2949	0.2867	0.2512	0.2582	0.2380	0.2604	0.2621	0.2955
75.0	0.2540	0.2228	0.2096	0.2101	0.1769	0.1926	0.1703	0.1948	0.1965	0.2232
78.0	0.1861	0.1551	0.1419	0.1510	0.1245	0.1401	0.1179	0.1466	0.1375	0.1620
81.0	0.1270	0.1026	0.0938	0.1051	0.0829	0.1007	0.0786	0.1051	0.0917	0.1160
84.0	0.0898	0.0655	0.0589	0.0723	0.0480	0.0701	0.0502	0.0744	0.0610	0.0810
87.0	0.0635	0.0415	0.0349	0.0482	0.0327	0.0438	0.0305	0.0460	0.0349	0.0461
90.0	0.0350	0.0350	0.0219	0.0241	0.0197	0.0219	0.0219	0.0241	0.0262	0.0241
G/C	300.0	315.0	330.0	345.0						
0.0	5232	5226	5223	5228						
3.0	4986	4992	5046	5063						
6.0	3917	3872	3963	3934						
9.0	2659	2620	2671	2633						
12.0	1769	1751	1789	1758						
15.0	1173	1171	1208	1183						
18.0	806.6	812.2	841.4	819.3						
21.0	583.4	602.0	621.7	602.2						

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	427.1	436.2	454.1	436.6
27.0	263.2	269.4	284.5	269.7
30.0	126.0	121.0	136.6	122.5
33.0	59.12	59.63	59.67	59.72
36.0	37.60	37.22	37.90	37.37
39.0	27.94	28.23	29.26	28.21
42.0	22.32	22.13	23.05	22.51
45.0	17.32	17.06	17.94	17.71
48.0	13.20	12.90	13.58	13.41
51.0	9.882	9.678	10.16	10.06
54.0	7.315	7.126	7.377	7.343
57.0	5.272	5.112	5.126	5.250
60.0	3.861	3.860	3.858	3.954
63.0	2.583	2.741	2.732	2.798
66.0	1.276	1.510	1.513	1.617
69.0	0.4018	0.4289	0.4259	0.4333
72.0	0.3014	0.3239	0.3166	0.3282
75.0	0.2163	0.2429	0.2315	0.2473
78.0	0.1507	0.1773	0.1659	0.1816
81.0	0.1004	0.1269	0.1091	0.1291
84.0	0.0611	0.0811	0.0655	0.0854
87.0	0.0327	0.0504	0.0371	0.0526
90.0	0.0241	0.0219	0.0219	0.0219

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: