

LED Tracklight PURE Art-15W-830-18D



Light Output Ratio:	100.0%	
Luminaire Power:	14.99 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

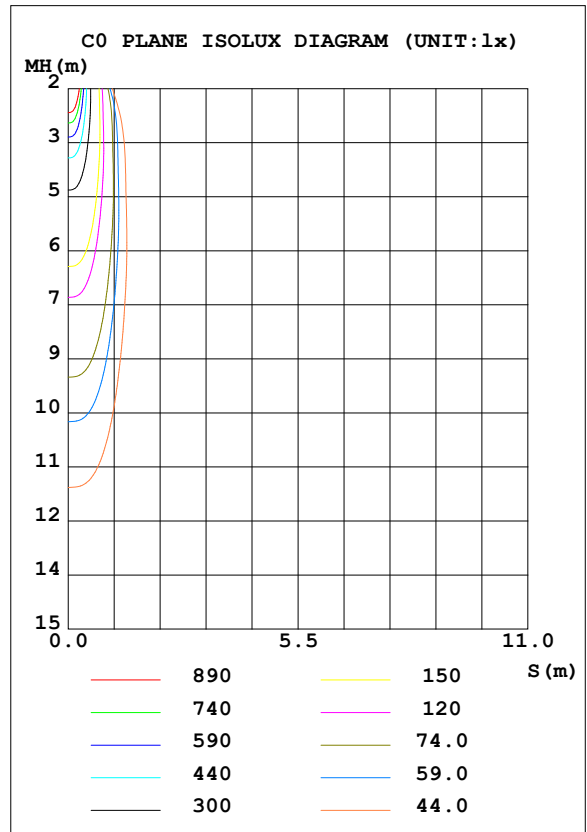
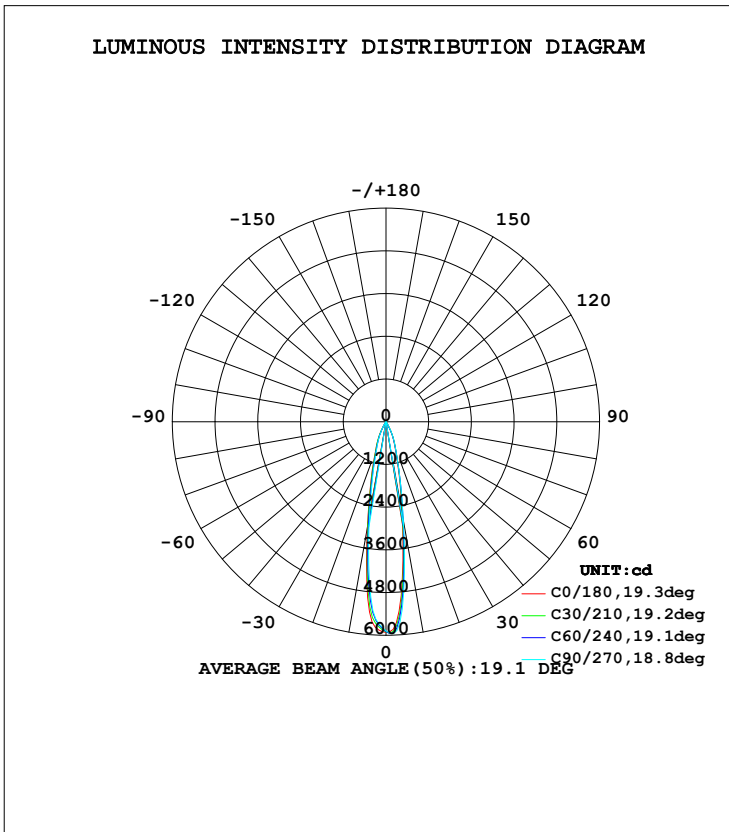
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0710A P:14.99W PF:0.9565 Lamp Flux:1073.75x1 lm		
NAME: PURE Art-15W-830-18D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 71.65 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	5953	S/MH (C0/180)	0.35
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.32
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1073.8	η UP, DN (C0-180)	0.0, 50.6
NOMINAL FLUX (lm)	1073.75	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.4
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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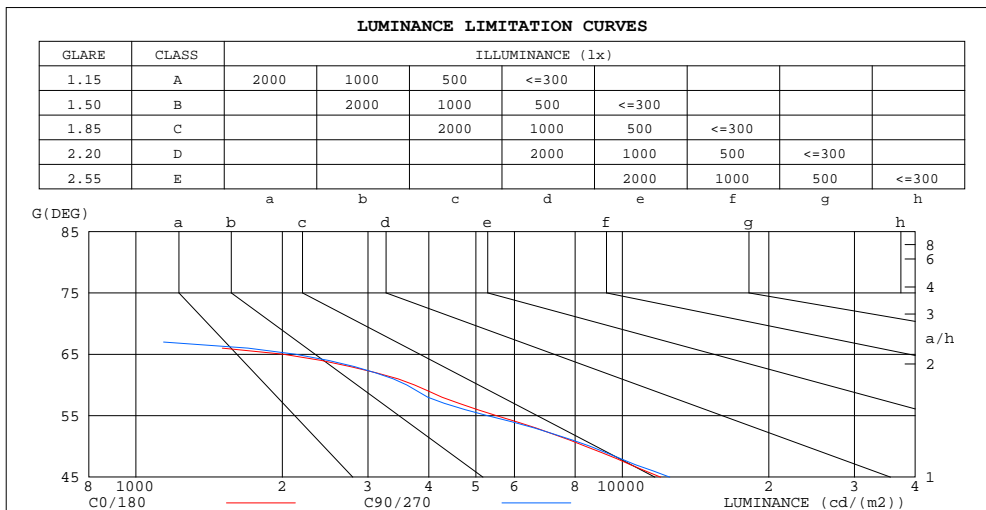
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	2628	2792	2816	2922	3015	2830	2677	2574	0- 10	404.1	404.1	37.6,37.6
20	747.0	777.2	774.3	803.4	853.9	787.2	740.8	710.9	10- 20	403.8	807.9	75.2,75.2
30	135.6	151.4	175.5	190.7	182.0	159.4	168.0	152.4	20- 30	201.2	1009	94,94
40	29.38	30.25	32.36	31.99	29.55	29.50	31.71	30.21	30- 40	39.67	1049	97.7,97.7
50	12.83	12.66	13.13	12.86	12.37	12.46	12.42	12.19	40- 50	15.87	1065	99.2,99.2
60	4.439	4.687	4.278	4.041	3.894	3.823	4.047	4.109	50- 60	6.729	1071	99.8,99.8
70	0.5034	0.5222	0.4552	0.3998	0.3997	0.4070	0.3975	0.4398	60- 70	1.987	1073	100,100
80	0.1883	0.1704	0.1774	0.1355	0.1310	0.1554	0.1375	0.1620	70- 80	0.2974	1074	100,100
90	0.0415	0.0394	0.0459	0.0394	0.0306	0.0284	0.0284	0.0306	80- 90	0.0916	1074	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	455	476
80	457	430
75	524	477
70	620	560
65	2008	2127
60	3738	3603
55	5514	5284
50	8406	8599
45	11988	12518

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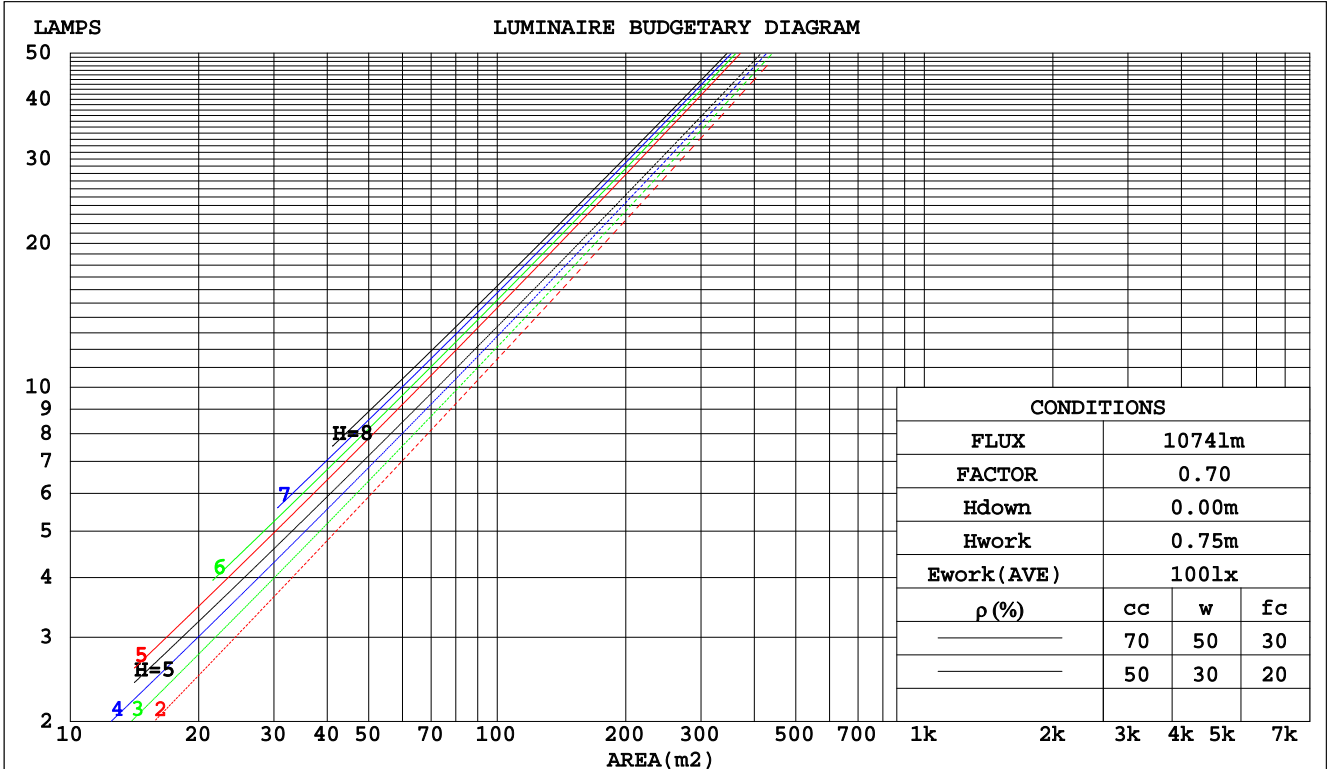
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	1.00	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.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	.87	.84	.91	.87	.84	.90	.86	.84	.88	.85	.83	.87	.85	.83	.82
7.0	.89	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.79	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.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	.079	.025	.132	.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	.095	.054	.017	
3.0	.120	.064	.019	.115	.062	.019	.107	.058	.018	.099	.054	.017	.092	.051	.016	
4.0	.113	.058	.017	.109	.057	.017	.101	.054	.016	.095	.051	.015	.089	.048	.015	
5.0	.106	.054	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014	.086	.046	.014	
6.0	.100	.050	.014	.098	.049	.014	.092	.047	.014	.087	.045	.013	.083	.044	.013	
7.0	.095	.047	.013	.093	.046	.013	.088	.045	.013	.084	.043	.013	.080	.041	.012	
8.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.077	.040	.012	
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.075	.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	.068	.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-830-18D	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	10.8	11.5	11.0	11.6	11.8	11.0	11.6	11.2	11.8	11.9
3H	10.7	11.4	11.0	11.5	11.7	10.9	11.5	11.1	11.7	11.9
4H	10.7	11.3	10.9	11.5	11.7	10.8	11.4	11.1	11.6	11.8
6H	10.6	11.1	10.9	11.4	11.6	10.7	11.3	11.0	11.5	11.7
8H	10.5	11.1	10.8	11.3	11.6	10.7	11.2	11.0	11.5	11.7
12H	10.5	11.0	10.8	11.3	11.5	10.6	11.1	10.9	11.4	11.7
4H 2H	10.8	11.3	11.0	11.5	11.8	10.9	11.5	11.1	11.7	11.9
3H	10.6	11.2	10.9	11.4	11.7	10.8	11.3	11.1	11.5	11.8
4H	10.6	11.0	10.9	11.3	11.6	10.7	11.2	11.0	11.4	11.7
6H	10.5	10.9	10.8	11.2	11.5	10.6	11.0	11.0	11.3	11.7
8H	10.4	10.8	10.8	11.1	11.5	10.5	10.9	10.9	11.3	11.6
12H	10.4	10.7	10.8	11.1	11.5	10.5	10.8	10.9	11.2	11.6
8H 4H	10.4	10.8	10.8	11.1	11.5	10.5	10.9	10.9	11.3	11.6
6H	10.3	10.6	10.7	11.0	11.4	10.4	10.8	10.8	11.1	11.6
8H	10.3	10.5	10.7	11.0	11.4	10.4	10.7	10.8	11.1	11.5
12H	10.2	10.4	10.7	10.9	11.3	10.3	10.6	10.8	11.0	11.5
12H 4H	10.4	10.7	10.8	11.1	11.5	10.5	10.8	10.9	11.2	11.6
6H	10.2	10.5	10.7	10.9	11.4	10.4	10.7	10.8	11.1	11.5
8H	10.2	10.4	10.7	10.9	11.3	10.3	10.6	10.8	11.0	11.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 3.9					+ 2.1 / - 4.2				
1.5H	+ 2.2 / - 2.9					+ 2.9 / - 2.9				
2.0H	+ 3.7 / - 4.1					+ 3.9 / - 3.8				

CIE Pub.117 Corrected 1074 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

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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	81	77
0.80	97	92	88	97	91	88	95	91	88	85
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	106	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

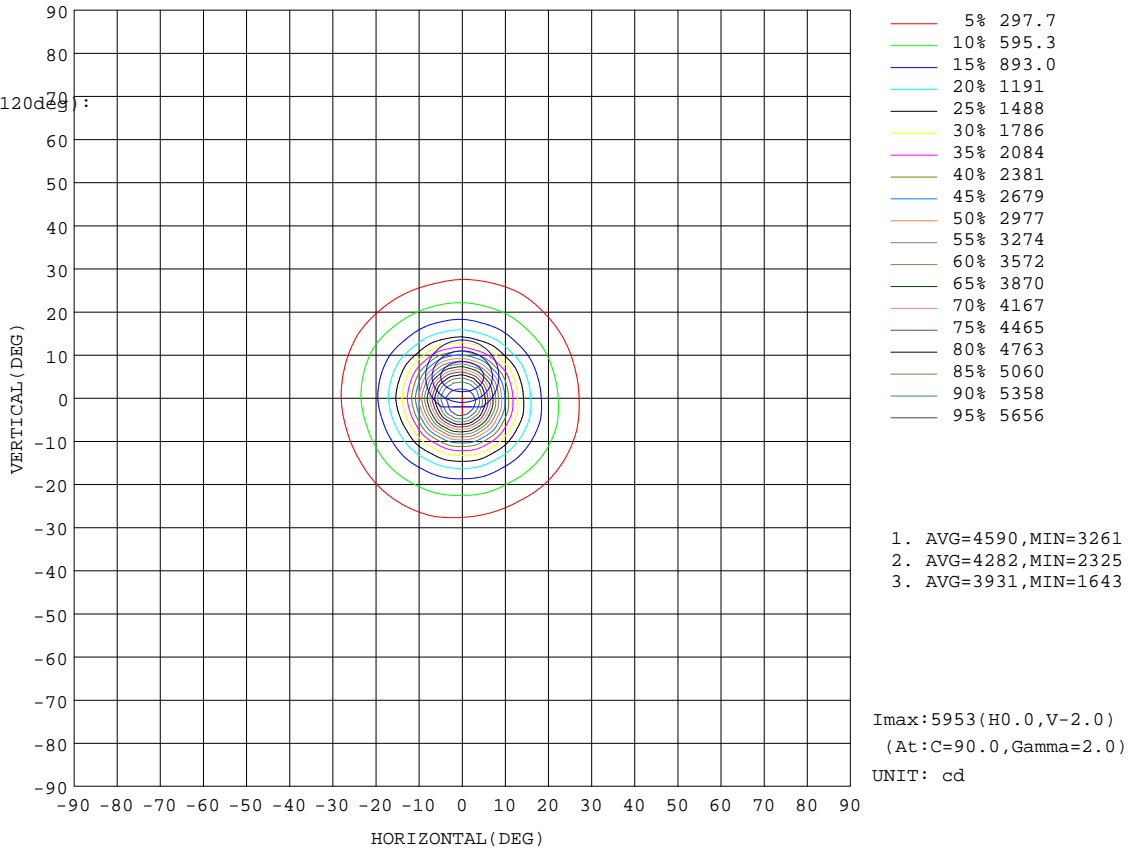
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Conical surface Flux(90deg):

1058.1 lm
%lum = 98.5%
%lamp = 98.5%

Conical surface Flux(120deg):

1071.4 lm
%lum = 99.8%
%lamp = 99.8%



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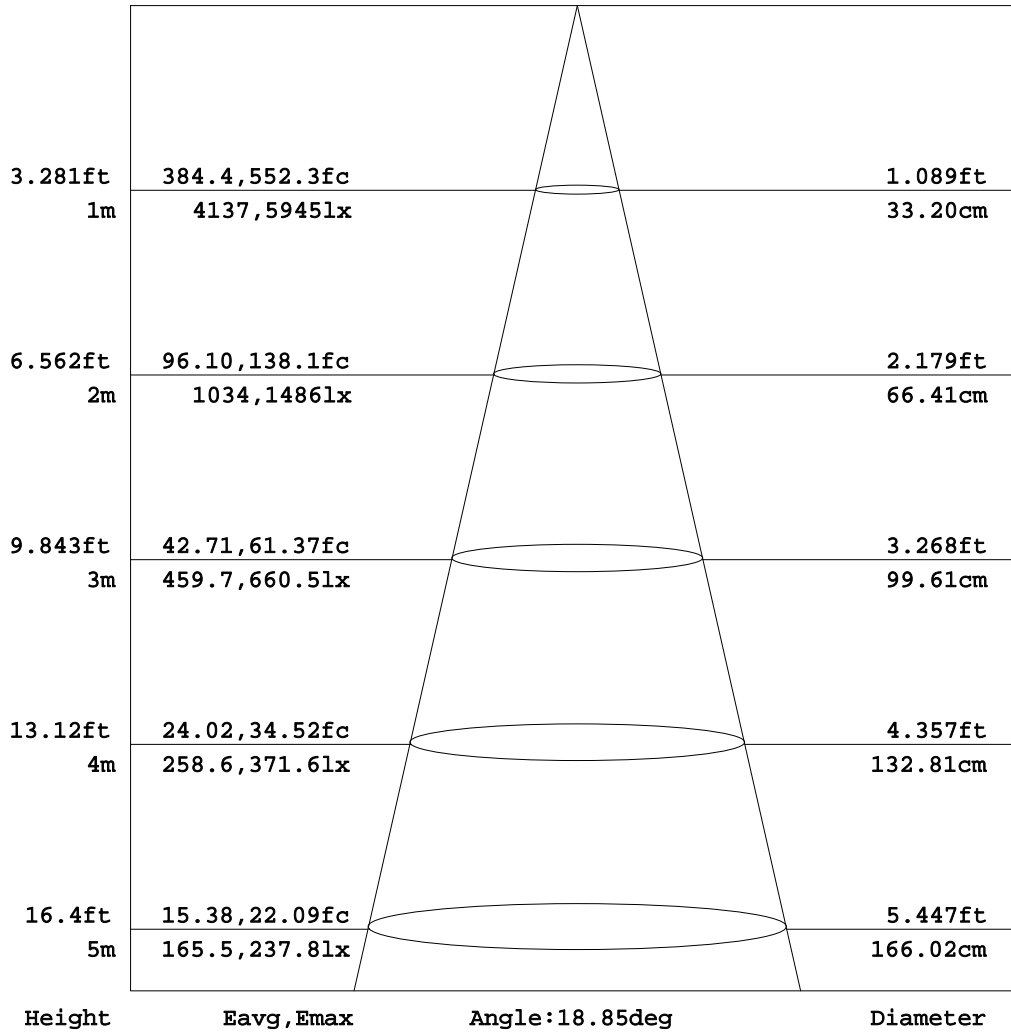
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AAI Figure

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Flux out:404.1 lm



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

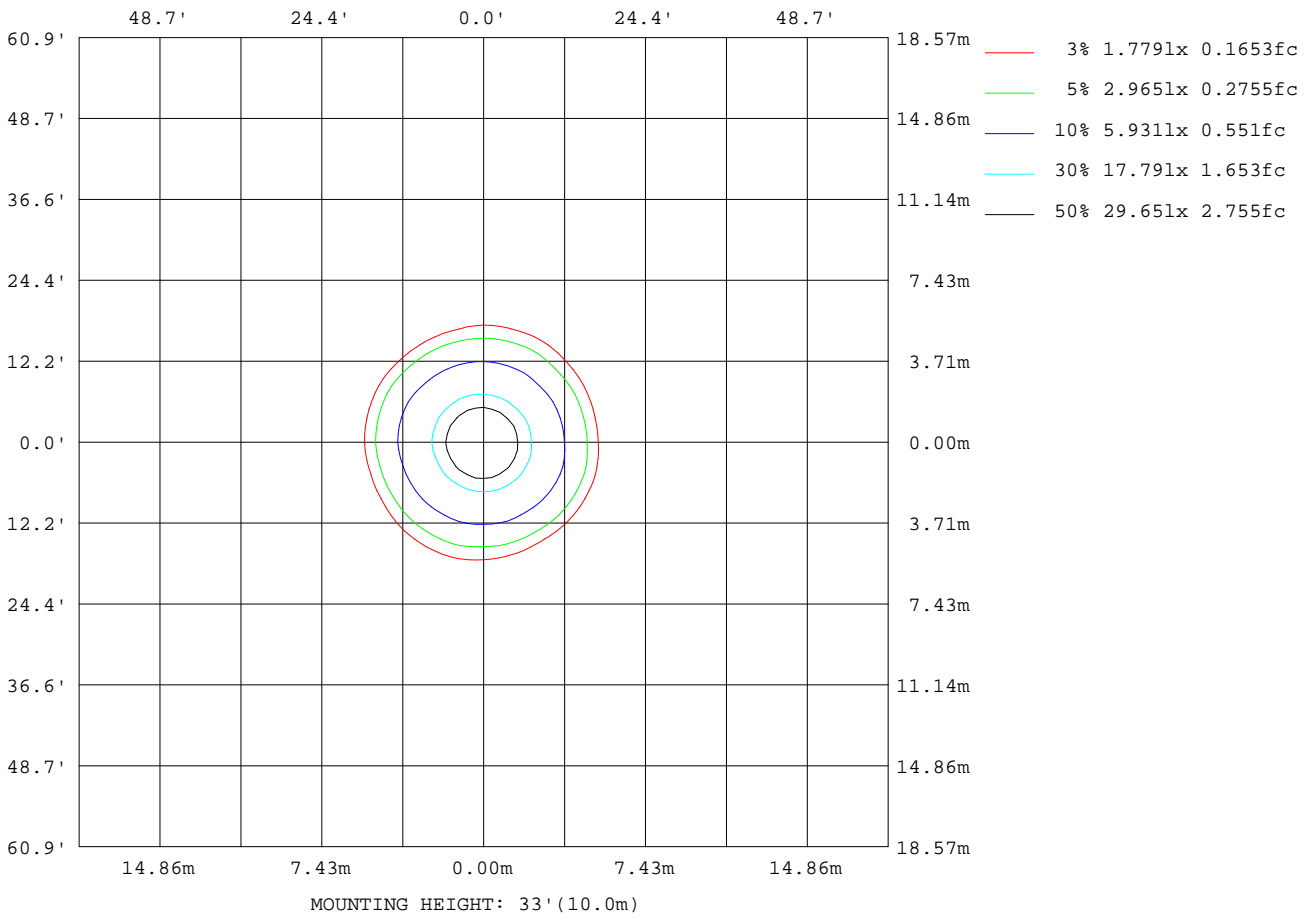
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ISOLUX DIAGRAM

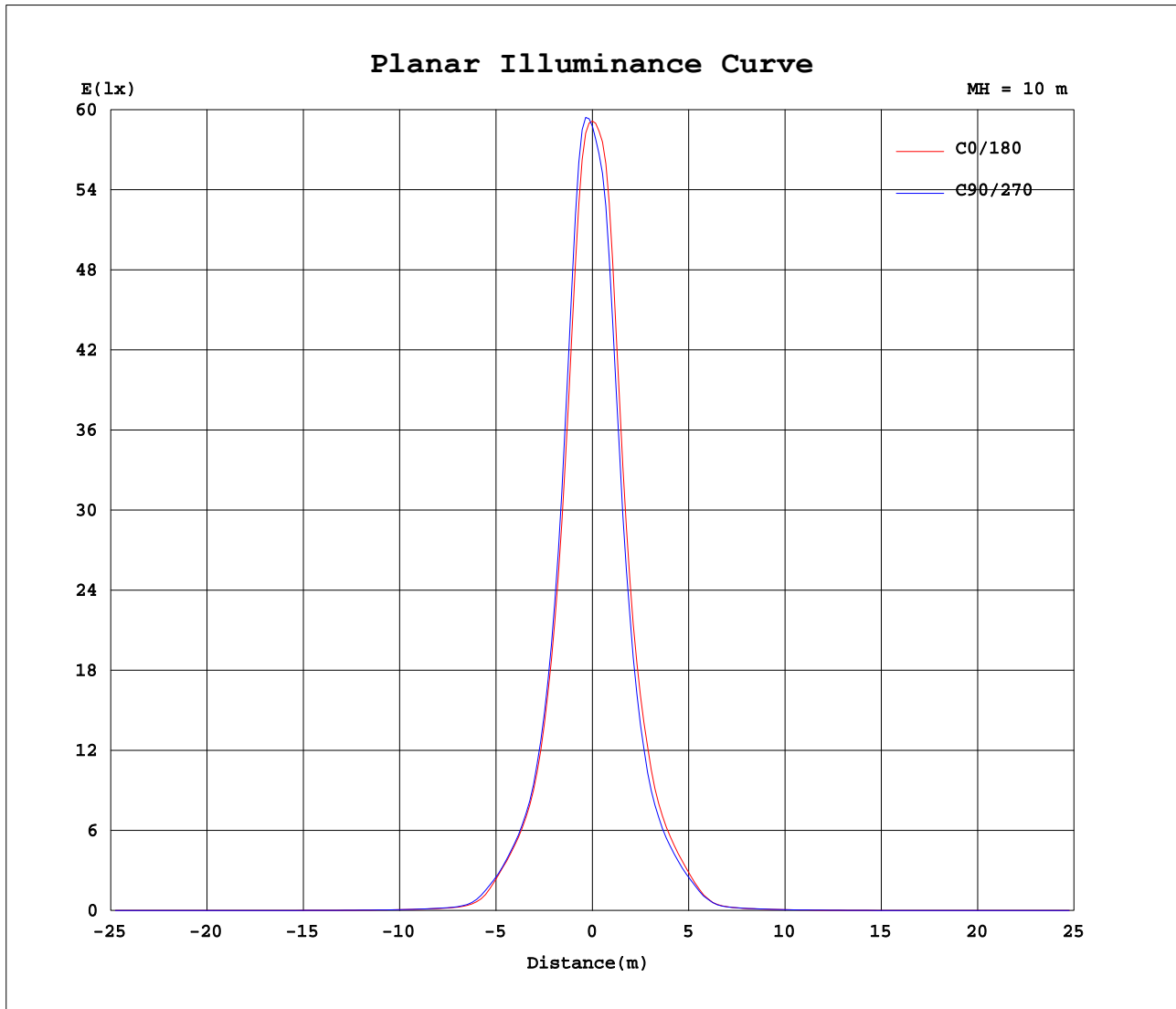
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Planar Illuminance Curve



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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	5915	5906	5904	5891	5892	5873	5877	5851	5853	5836	5832	5824	5915	5906	5904	5891	5892	5873	5877
5	4903	5008	5027	5140	5151	5267	5270	5346	5294	5347	5278	5294	5362	5268	5221	5080	5049	4948	4943
10	2628	2713	2700	2792	2775	2856	2816	2884	2842	2922	2893	2947	3015	2922	2935	2830	2832	2711	2677
15	1332	1412	1394	1432	1393	1440	1412	1450	1423	1486	1459	1502	1564	1525	1512	1423	1417	1340	1347
20	747	783	787	777	763	780	774	790	785	803	802	818	854	854	840	787	771	743	741
25	429	459	455	448	429	441	440	462	459	464	464	469	499	503	500	464	447	433	429
30	136	160	150	151	140	163	175	190	186	191	172	165	182	182	184	159	154	158	168
35	47.7	48.8	48.7	49.9	48.6	51.2	52.0	52.3	51.0	53.3	51.2	51.3	52.1	49.9	50.2	49.2	49.5	49.0	50.6
40	29.4	31.4	30.9	30.3	29.3	31.3	32.4	32.4	31.7	32.0	31.4	30.4	29.5	30.3	30.6	29.5	29.6	30.7	31.7
45	20.1	21.0	20.9	20.2	19.7	20.3	21.0	22.0	21.5	20.9	20.4	19.6	20.2	20.6	20.5	20.0	19.9	19.7	20.0
50	12.8	13.4	12.9	12.7	12.6	12.4	13.1	13.7	13.4	12.9	11.9	11.5	12.4	12.9	13.0	12.5	12.3	12.0	12.4
55	7.51	7.81	7.44	7.48	7.37	7.24	7.20	7.38	7.08	7.06	6.53	6.26	7.01	7.20	7.23	6.96	7.03	6.94	7.05
60	4.44	4.62	4.56	4.69	4.57	4.50	4.28	4.30	3.98	4.04	4.01	3.69	3.89	3.91	3.88	3.82	4.00	4.01	4.05
65	2.02	2.39	2.27	2.56	2.28	2.21	2.13	2.29	1.91	1.98	2.04	2.11	2.00	1.90	1.98	1.87	1.84	1.90	1.79
70	0.50	0.52	0.54	0.52	0.51	0.47	0.46	0.42	0.42	0.40	0.42	0.40	0.40	0.41	0.40	0.41	0.39	0.40	0.40
75	0.32	0.32	0.34	0.32	0.33	0.30	0.29	0.27	0.27	0.25	0.26	0.24	0.24	0.25	0.23	0.26	0.24	0.26	0.24
80	0.19	0.17	0.19	0.17	0.19	0.16	0.18	0.15	0.16	0.14	0.16	0.14	0.13	0.15	0.13	0.16	0.13	0.16	0.14
85	0.09	0.08	0.10	0.08	0.10	0.07	0.10	0.07	0.09	0.07	0.09	0.07	0.06	0.08	0.06	0.08	0.06	0.09	0.06
90	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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:0.0710A P:14.99W PF:0.9565 Lamp Flux:1073.75x1 lm		
NAME: PURE Art-15W-830-18D	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	5851	5853	5836	5832	5824													
5	4859	4890	4826	4892	4863													
10	2591	2625	2574	2650	2629													
15	1274	1289	1268	1333	1308													
20	723	729	711	731	731													
25	424	429	409	420	417													
30	155	160	152	154	137													
35	48.4	48.6	49.3	49.0	48.1													
40	30.0	30.0	30.2	31.3	30.4													
45	19.5	19.8	19.4	20.1	20.1													
50	12.2	12.6	12.2	12.4	12.4													
55	6.90	7.06	7.04	7.33	7.34													
60	3.90	4.10	4.11	4.42	4.47													
65	1.62	1.77	1.78	1.92	2.14													
70	0.42	0.41	0.44	0.45	0.48													
75	0.26	0.25	0.28	0.27	0.30													
80	0.16	0.14	0.16	0.15	0.17													
85	0.08	0.06	0.08	0.06	0.09													
90	0.03	0.03	0.03	0.03	0.03													

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	5915	5906	5904	5891	5892	5873	5877	5851	5853	5836
3.0	5650	5713	5730	5792	5811	5866	5874	5888	5858	5846
6.0	4421	4528	4534	4658	4676	4791	4783	4870	4831	4910
9.0	3015	3100	3089	3187	3173	3278	3253	3336	3289	3377
12.0	2008	2078	2068	2127	2111	2157	2130	2162	2129	2200
15.0	1332	1412	1394	1432	1393	1440	1412	1450	1423	1486
18.0	920.7	968.7	967.8	969.7	947.8	971.0	956.4	983.2	978.6	1007
21.0	674.2	709.3	712.6	702.8	683.3	700.9	696.0	715.8	710.2	724.3
24.0	485.4	520.7	519.1	507.8	489.8	504.2	502.8	519.6	517.9	525.8
27.0	302.3	329.5	325.5	318.7	300.1	315.7	329.7	355.6	352.2	346.0
30.0	135.6	159.7	150.2	151.4	139.9	163.4	175.5	189.7	185.9	190.7
33.0	66.34	69.41	68.29	69.34	70.74	75.92	77.20	77.95	77.26	81.75
36.0	41.98	43.76	43.39	43.75	42.68	45.26	46.04	46.02	44.94	46.36
39.0	31.76	33.77	33.55	32.71	31.88	34.10	35.08	34.90	34.21	34.88
42.0	25.84	26.97	26.73	25.90	25.01	26.48	27.19	28.05	27.40	27.11
45.0	20.13	21.02	20.92	20.20	19.66	20.30	21.02	22.00	21.46	20.91
48.0	15.45	16.13	15.84	15.22	15.12	15.03	15.75	16.54	16.24	15.55
51.0	11.67	12.16	11.67	11.43	11.42	11.20	11.81	12.33	12.04	11.58
54.0	8.460	8.828	8.375	8.413	8.311	8.120	8.272	8.549	8.244	8.067
57.0	5.970	6.161	5.950	6.050	5.889	5.779	5.568	5.671	5.367	5.437
60.0	4.439	4.618	4.561	4.687	4.569	4.503	4.278	4.304	3.981	4.041
63.0	2.971	3.210	3.225	3.520	3.255	3.150	3.031	3.192	2.695	2.784
66.0	1.454	1.878	1.738	2.036	1.768	1.740	1.643	1.890	1.494	1.592
69.0	0.5516	0.5680	0.5887	0.5724	0.5537	0.5156	0.4970	0.4632	0.4579	0.4391
72.0	0.4225	0.4282	0.4531	0.4326	0.4269	0.3932	0.3853	0.3517	0.3546	0.3300
75.0	0.3218	0.3168	0.3393	0.3212	0.3261	0.2972	0.2933	0.2665	0.2692	0.2469
78.0	0.2364	0.2250	0.2474	0.2250	0.2386	0.2119	0.2189	0.1922	0.1992	0.1748
81.0	0.1642	0.1507	0.1730	0.1507	0.1664	0.1420	0.1576	0.1311	0.1445	0.1245
84.0	0.1095	0.0917	0.1161	0.0917	0.1139	0.0938	0.1139	0.0873	0.1029	0.0830
87.0	0.0657	0.0459	0.0679	0.0459	0.0701	0.0524	0.0745	0.0546	0.0723	0.0502
90.0	0.0415	0.0415	0.0415	0.0394	0.0415	0.0394	0.0459	0.0394	0.0415	0.0394
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5832	5824	5915	5906	5904	5891	5892	5873	5877	5851
3.0	5782	5737	5782	5709	5667	5602	5579	5540	5545	5523
6.0	4848	4873	4954	4837	4808	4668	4642	4510	4496	4399
9.0	3339	3380	3456	3347	3350	3240	3229	3119	3075	2978
12.0	2181	2227	2293	2240	2242	2146	2140	2048	2027	1947
15.0	1459	1502	1564	1525	1512	1423	1417	1340	1347	1274
18.0	1002	1020	1064	1056	1044	977.8	959.8	926.4	920.3	890.3
21.0	725.4	737.3	769.0	772.5	759.0	714.2	691.7	672.2	668.2	653.9
24.0	524.0	533.1	561.4	566.7	564.6	522.9	504.7	490.0	487.5	473.9
27.0	332.3	344.1	369.3	371.2	369.5	339.7	325.1	312.6	326.4	325.5
30.0	171.6	164.7	182.0	181.7	184.0	159.4	153.8	158.1	168.0	155.2
33.0	78.97	76.23	77.02	77.41	76.64	71.69	73.29	72.07	73.78	68.21
36.0	44.94	44.81	45.10	43.99	43.86	43.29	43.35	44.56	45.33	42.97
39.0	34.15	32.99	32.13	32.74	33.20	32.12	32.01	33.37	34.22	32.74
42.0	26.66	25.66	25.55	26.08	26.29	25.35	25.50	26.29	26.95	25.75
45.0	20.43	19.57	20.15	20.56	20.50	19.98	19.88	19.70	20.01	19.50
48.0	14.77	14.28	15.10	15.82	15.85	15.07	15.04	14.62	14.99	14.74
51.0	10.62	10.17	11.17	11.63	11.75	11.23	11.13	10.81	11.19	10.97
54.0	7.421	7.100	7.927	8.180	8.302	7.979	8.003	7.838	7.958	7.817
57.0	5.123	4.832	5.448	5.542	5.444	5.297	5.456	5.524	5.545	5.426
60.0	4.008	3.691	3.894	3.911	3.876	3.823	4.001	4.013	4.047	3.895
63.0	2.926	2.870	2.759	2.651	2.750	2.693	2.719	2.774	2.701	2.475
66.0	1.554	1.629	1.613	1.529	1.573	1.410	1.358	1.449	1.305	1.143
69.0	0.4554	0.4391	0.4434	0.4554	0.4411	0.4464	0.4302	0.4420	0.4412	0.4573
72.0	0.3481	0.3277	0.3254	0.3414	0.3211	0.3392	0.3210	0.3392	0.3277	0.3480
75.0	0.2627	0.2425	0.2359	0.2517	0.2337	0.2560	0.2381	0.2604	0.2446	0.2626
78.0	0.1927	0.1726	0.1660	0.1860	0.1681	0.1904	0.1703	0.1926	0.1747	0.1969
81.0	0.1423	0.1201	0.1135	0.1335	0.1157	0.1357	0.1157	0.1379	0.1201	0.1423
84.0	0.1051	0.0808	0.0742	0.0963	0.0720	0.0942	0.0742	0.0985	0.0764	0.0942
87.0	0.0700	0.0524	0.0437	0.0613	0.0393	0.0591	0.0371	0.0613	0.0371	0.0570
90.0	0.0394	0.0415	0.0306	0.0306	0.0284	0.0284	0.0284	0.0306	0.0284	0.0306
G/C	300.0	315.0	330.0	345.0						
0.0	5853	5836	5832	5824						
3.0	5553	5547	5597	5587						
6.0	4426	4359	4427	4393						
9.0	3010	2952	3039	3013						
12.0	1966	1933	2007	1990						
15.0	1289	1268	1333	1308						
18.0	897.0	885.2	907.8	904.8						
21.0	657.8	642.1	657.7	653.4						

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	480.6	460.8	475.1	475.1
27.0	331.0	305.9	300.7	294.5
30.0	159.5	152.4	154.5	137.5
33.0	69.69	69.83	70.78	69.52
36.0	43.00	43.72	44.08	42.81
39.0	32.48	33.02	33.61	32.84
42.0	25.88	25.52	26.67	25.92
45.0	19.78	19.39	20.13	20.06
48.0	15.09	14.71	15.09	15.12
51.0	11.25	10.99	11.23	11.28
54.0	7.999	7.926	8.216	8.234
57.0	5.582	5.577	5.884	5.891
60.0	4.101	4.109	4.422	4.475
63.0	2.681	2.739	2.917	3.079
66.0	1.244	1.212	1.379	1.536
69.0	0.4543	0.4792	0.4893	0.5207
72.0	0.3386	0.3655	0.3647	0.4005
75.0	0.2468	0.2757	0.2708	0.2998
78.0	0.1791	0.2035	0.1921	0.2210
81.0	0.1201	0.1444	0.1288	0.1532
84.0	0.0764	0.0985	0.0785	0.1007
87.0	0.0371	0.0569	0.0393	0.0591
90.0	0.0284	0.0306	0.0306	0.0284

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: