

LED Tracklight PURE Art-15W-830-24D



Light Output Ratio:	100.0%	
Luminaire Power:	14.94 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

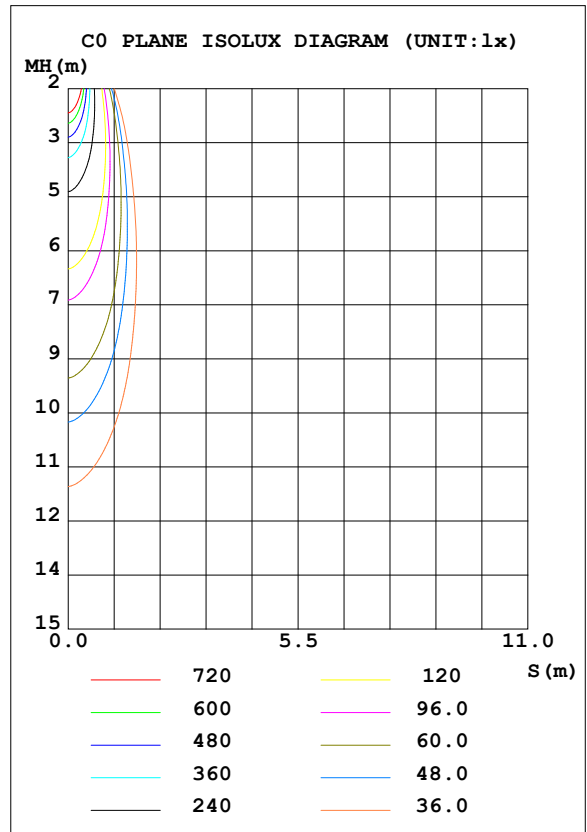
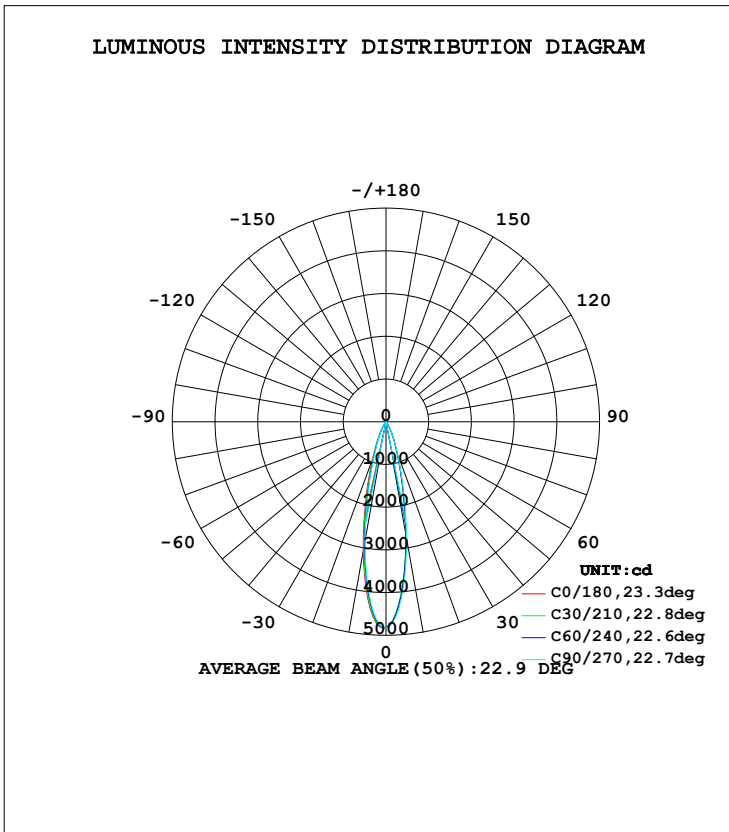
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.0708A P:14.94W PF:0.9562 Lamp Flux:1075.78x1 lm		
NAME: PURE Art-15W-830-24D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.01 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4833	S/MH (C0/180)	0.42
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.39
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1075.8	η UP, DN (C0-180)	0.0, 49.5
NOMINAL FLUX (lm)	1075.78	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.5
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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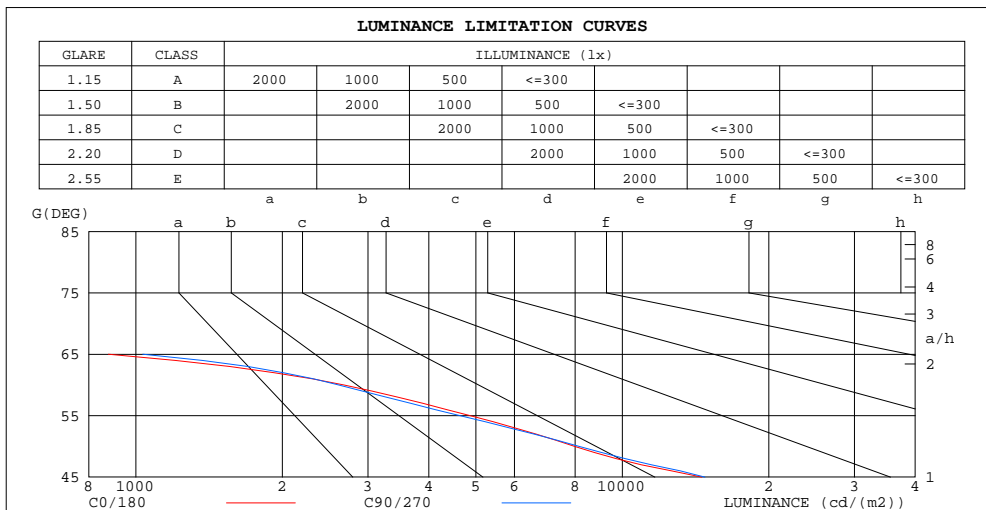
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	2689	2699	2776	2991	3070	2890	2827	2769	0- 10	355.9	355.9	33.1,33.1
20	768.9	737.7	757.5	878.8	920.5	797.9	765.4	791.5	10- 20	441.0	796.9	74.1,74.1
30	172.7	173.0	184.1	200.6	198.2	186.9	188.8	188.9	20- 30	192.8	989.7	92,92
40	44.66	44.03	45.29	47.15	48.03	45.87	47.20	46.81	30- 40	58.34	1048	97.4,97.4
50	12.18	11.40	12.44	13.43	13.27	13.05	12.46	12.40	40- 50	19.98	1068	99.3,99.3
60	3.176	2.856	3.099	3.419	3.455	3.181	3.348	3.334	50- 60	6.311	1074	99.9,99.9
70	0.2670	0.2097	0.2167	0.2294	0.2555	0.2670	0.2446	0.2648	60- 70	1.254	1076	100,100
80	0.1051	0.0699	0.0919	0.0830	0.0874	0.1050	0.0829	0.1051	70- 80	0.1645	1076	100,100
90	0.0415	0.0394	0.0415	0.0394	0.0284	0.0306	0.0306	0.0284	80- 90	0.0620	1076	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	328	296
80	255	223
75	274	224
70	329	267
65	878	1033
60	2675	2610
55	4870	4638
50	7981	8149
45	14570	14787

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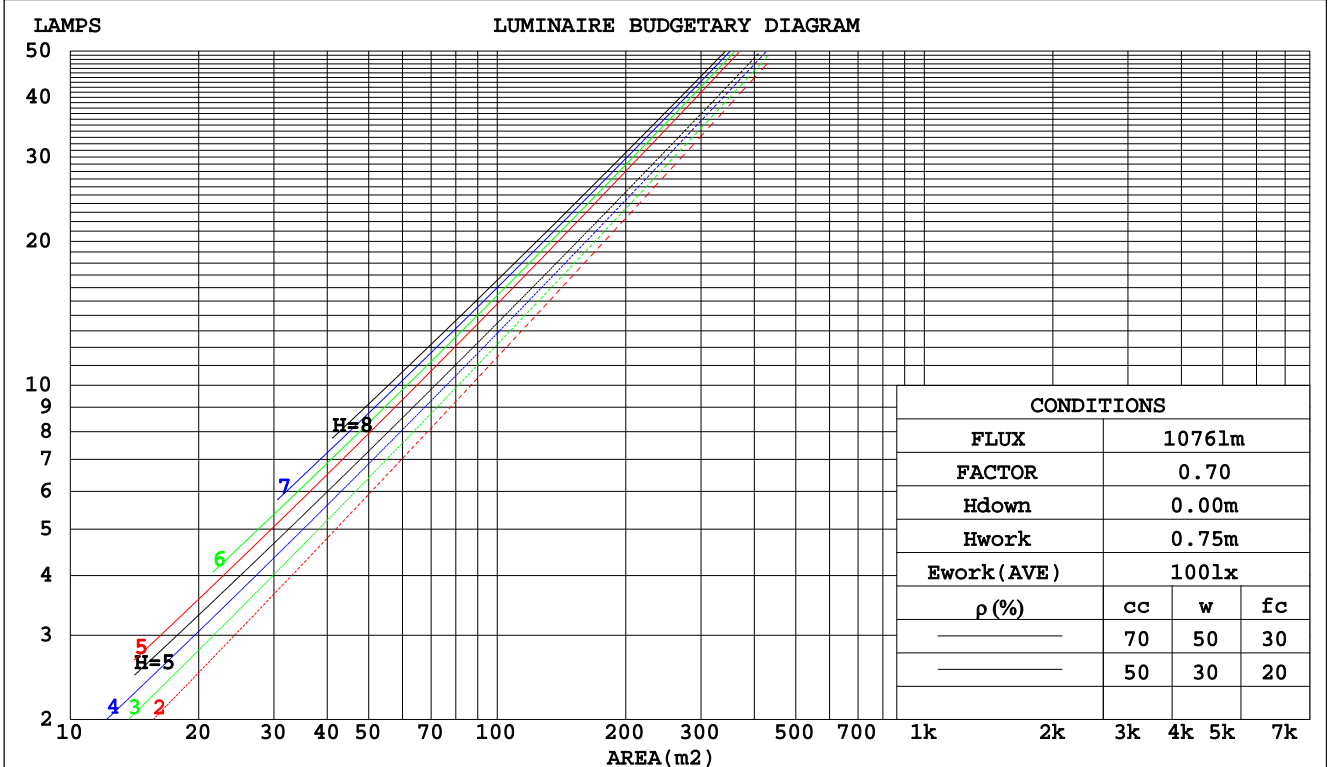
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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															
	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	.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	.92	.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	.79	.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	.078	.039	.011	.076	.038	.011	

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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						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	12.6	13.3	12.8	13.4	13.6	12.8	13.4	13.0	13.6	13.7
3H	12.4	13.1	12.7	13.3	13.4	12.6	13.2	12.8	13.4	13.6
4H	12.3	13.0	12.6	13.2	13.4	12.5	13.1	12.8	13.3	13.6
6H	12.3	12.8	12.5	13.1	13.3	12.4	13.0	12.7	13.3	13.5
8H	12.2	12.8	12.5	13.0	13.3	12.4	13.0	12.7	13.2	13.5
12H	12.2	12.7	12.5	13.0	13.2	12.4	12.9	12.7	13.1	13.4
4H 2H	12.4	13.0	12.6	13.2	13.4	12.6	13.2	12.8	13.4	13.6
3H	12.2	12.7	12.5	13.0	13.3	12.4	12.9	12.7	13.2	13.4
4H	12.1	12.6	12.5	12.9	13.2	12.3	12.8	12.6	13.1	13.4
6H	12.0	12.4	12.4	12.8	13.1	12.2	12.6	12.6	13.0	13.3
8H	12.0	12.4	12.3	12.7	13.1	12.1	12.5	12.5	12.9	13.3
12H	11.9	12.3	12.3	12.6	13.0	12.1	12.5	12.5	12.8	13.2
8H 4H	12.0	12.4	12.3	12.7	13.1	12.1	12.5	12.5	12.9	13.3
6H	11.8	12.2	12.3	12.6	13.0	12.0	12.4	12.5	12.8	13.2
8H	11.8	12.1	12.2	12.5	12.9	12.0	12.3	12.4	12.7	13.1
12H	11.7	12.0	12.2	12.4	12.9	11.9	12.2	12.4	12.6	13.1
12H 4H	11.9	12.3	12.3	12.6	13.0	12.1	12.5	12.5	12.8	13.2
6H	11.8	12.1	12.2	12.5	12.9	12.0	12.3	12.4	12.7	13.1
8H	11.7	12.0	12.2	12.4	12.9	11.9	12.2	12.4	12.6	13.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 7.8					+ 3.0 / - 8.0				
1.5H	+ 4.4 / - 5.8					+ 4.5 / - 5.8				
2.0H	+ 5.4 / - 8.8					+ 5.5 / - 8.3				

CIE Pub.117 Corrected 1076 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	89	84	80	89	84	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

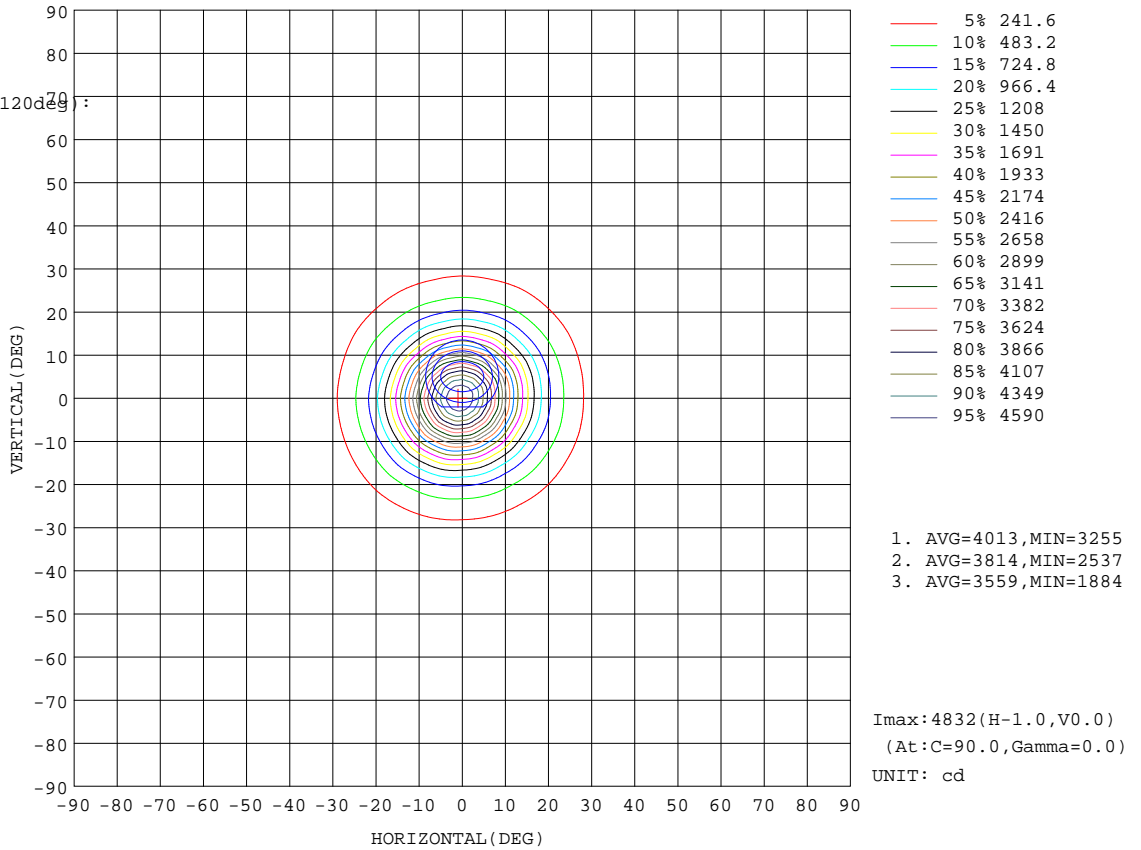
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Conical surface Flux(90deg):

1060.7 lm
%lum = 98.6%
%lamp = 98.6%

Conical surface Flux(120deg):

1074.3 lm
%lum = 99.9%
%lamp = 99.9%



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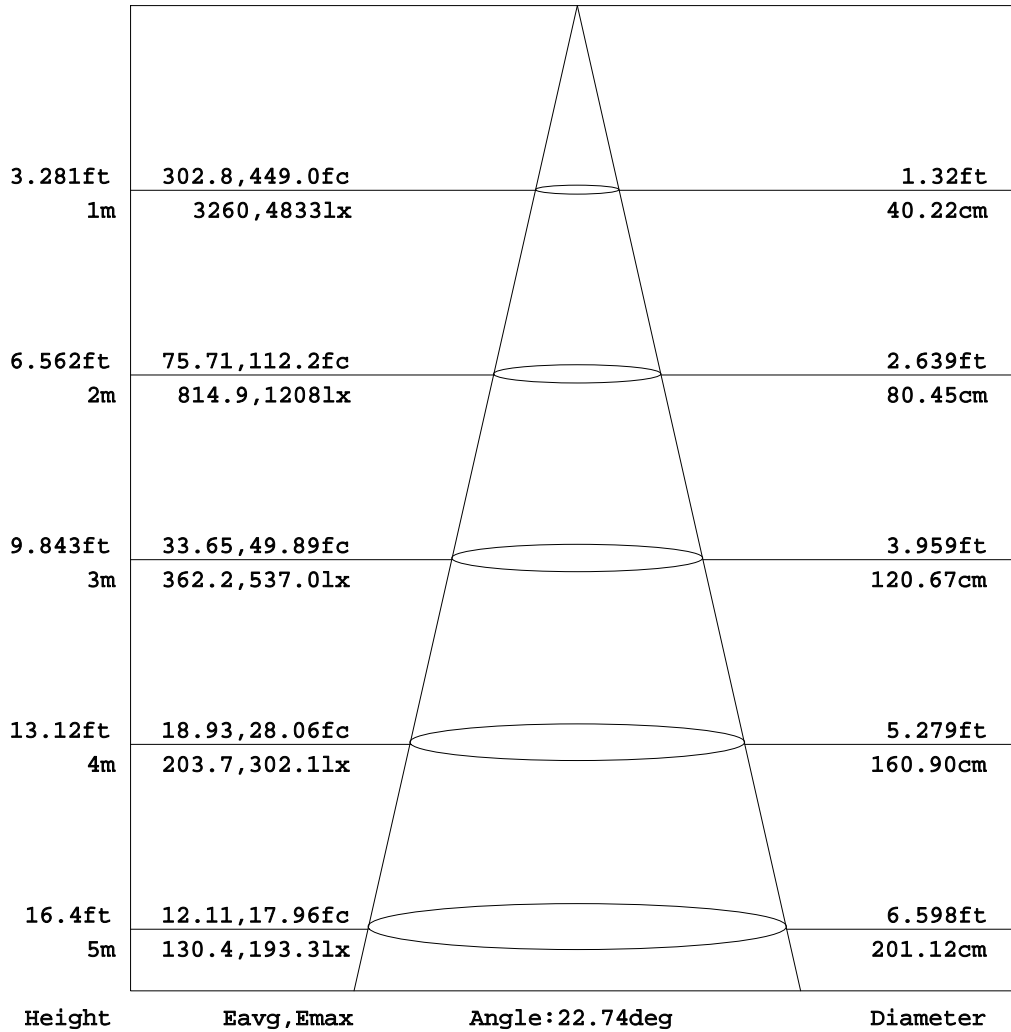
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AAI Figure

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Flux out:462.7 lm



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

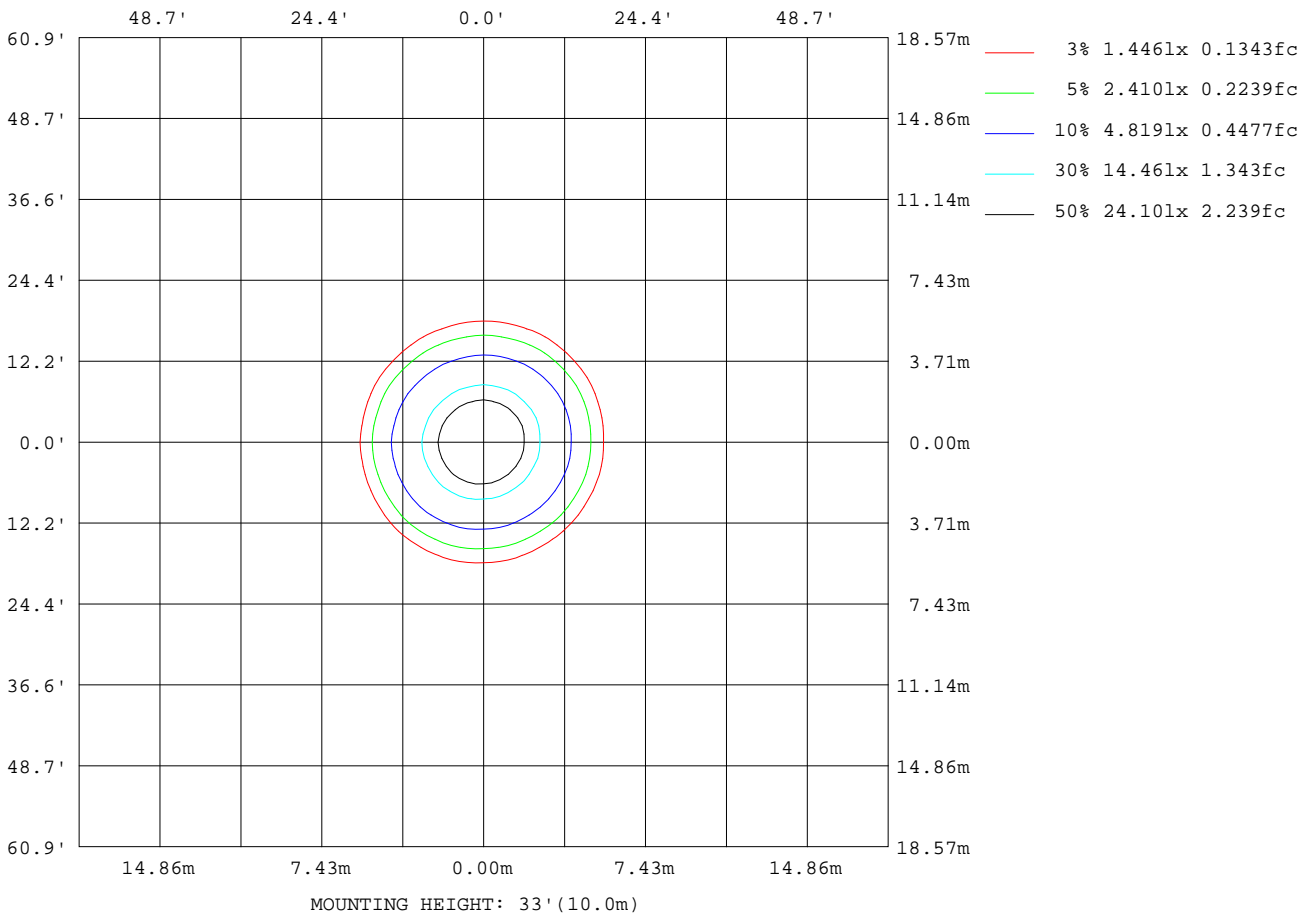
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ISOLUX DIAGRAM

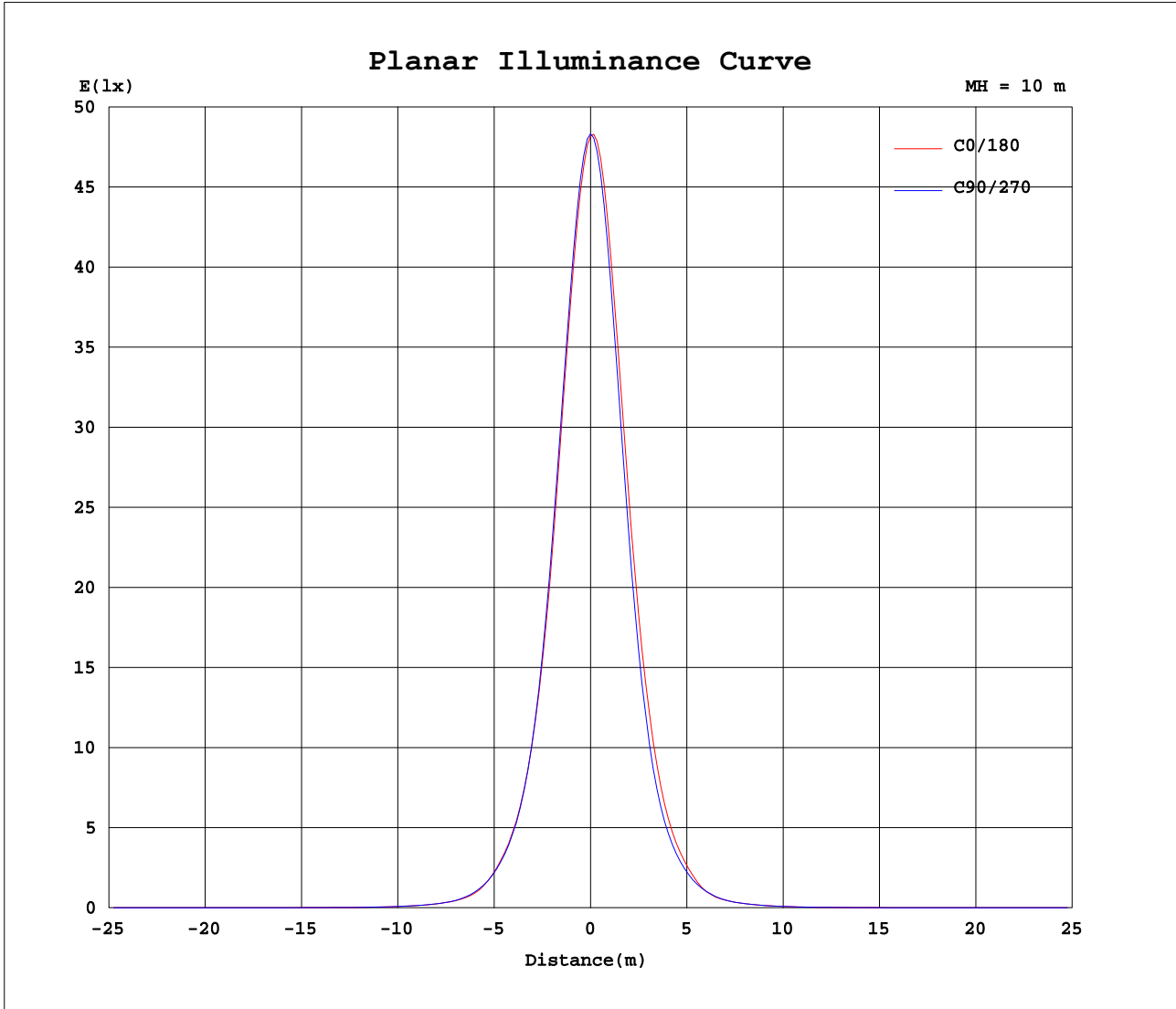
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	4832	4831	4828	4829	4824														
5	4162	4179	4140	4161	4117														
10	2776	2811	2769	2809	2753														
15	1525	1568	1545	1574	1537														
20	762	791	791	811	793														
25	386	402	403	413	405														
30	186	193	189	190	180														
35	88.3	89.5	87.9	87.7	84.8														
40	46.4	47.2	46.8	47.1	45.7														
45	25.0	25.5	25.2	25.6	25.0														
50	12.2	12.5	12.4	12.6	12.2														
55	6.58	6.79	6.74	6.83	6.65														
60	3.20	3.34	3.33	3.35	3.26														
65	1.00	1.12	1.04	1.00	0.90														
70	0.26	0.24	0.26	0.25	0.26														
75	0.17	0.15	0.17	0.15	0.17														
80	0.10	0.08	0.11	0.08	0.11														
85	0.06	0.04	0.06	0.04	0.06														
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	4819	4830	4828	4832	4829	4832	4833	4832	4831	4828
3.0	4485	4505	4488	4520	4514	4557	4564	4612	4620	4658
6.0	3815	3834	3796	3838	3826	3892	3900	3988	4007	4075
9.0	2979	2999	2950	2993	2974	3054	3064	3163	3189	3281
12.0	2149	2157	2112	2147	2134	2203	2221	2317	2350	2437
15.0	1489	1498	1441	1473	1446	1500	1517	1606	1639	1719
18.0	1007	1003	965.0	970.7	955.4	988.5	1003	1070	1105	1165
21.0	671.2	671.0	647.8	648.3	634.2	652.6	658.6	700.1	722.3	764.5
24.0	453.8	455.3	441.1	438.1	426.4	436.7	440.7	464.5	478.6	503.8
27.0	292.2	293.0	282.4	282.4	275.9	283.6	287.8	304.7	313.2	329.7
30.0	172.7	174.6	170.8	173.0	171.2	180.7	184.1	191.7	193.5	200.6
33.0	107.3	108.2	106.9	107.6	108.4	113.7	114.7	116.8	115.7	117.0
36.0	72.36	72.37	71.14	72.03	71.22	73.17	73.61	75.45	74.82	75.55
39.0	50.51	50.61	49.59	49.86	49.28	50.42	51.02	52.48	52.34	53.02
42.0	35.19	35.09	34.22	34.47	34.27	35.23	35.64	36.28	36.28	37.03
45.0	24.47	24.62	23.85	24.03	23.77	24.60	24.83	25.60	25.64	26.02
48.0	15.42	15.52	14.88	14.84	14.88	15.64	16.08	16.90	17.03	17.27
51.0	10.90	10.91	10.26	10.06	10.06	10.56	10.96	11.66	11.86	11.89
54.0	7.577	7.610	7.047	6.948	6.950	7.281	7.300	7.747	7.957	8.143
57.0	5.035	4.992	4.525	4.497	4.617	4.848	4.752	4.925	5.129	5.423
60.0	3.176	3.113	2.845	2.856	2.989	3.151	3.099	3.131	3.176	3.419
63.0	1.685	1.686	1.575	1.614	1.702	1.843	1.835	1.837	1.826	1.957
66.0	0.5763	0.6168	0.5674	0.5516	0.6136	0.7191	0.6753	0.7147	0.7450	0.8240
69.0	0.2933	0.2643	0.2693	0.2359	0.2430	0.2206	0.2386	0.2250	0.2540	0.2513
72.0	0.2233	0.1944	0.2014	0.1682	0.1795	0.1551	0.1795	0.1638	0.1927	0.1879
75.0	0.1685	0.1420	0.1489	0.1202	0.1357	0.1114	0.1379	0.1223	0.1510	0.1377
78.0	0.1270	0.1005	0.1160	0.0831	0.1072	0.0830	0.1072	0.0896	0.1203	0.1027
81.0	0.0941	0.0721	0.0875	0.0634	0.0810	0.0656	0.0832	0.0677	0.0897	0.0764
84.0	0.0744	0.0481	0.0678	0.0459	0.0656	0.0437	0.0700	0.0480	0.0700	0.0567
87.0	0.0526	0.0394	0.0525	0.0394	0.0504	0.0394	0.0525	0.0415	0.0547	0.0415
90.0	0.0415	0.0415	0.0415	0.0394	0.0394	0.0394	0.0415	0.0415	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	4829	4824	4819	4830	4828	4832	4829	4832	4833	4832
3.0	4652	4674	4697	4672	4672	4635	4632	4594	4597	4565
6.0	4072	4105	4138	4080	4079	4010	4011	3949	3965	3915
9.0	3270	3317	3353	3277	3270	3181	3174	3100	3119	3068
12.0	2438	2477	2513	2441	2417	2327	2313	2245	2259	2219
15.0	1723	1760	1783	1711	1686	1597	1581	1520	1546	1525
18.0	1169	1197	1213	1153	1125	1061	1044	999.9	1016	1013
21.0	766.7	788.2	800.8	758.9	739.9	694.2	681.7	654.4	666.0	661.7
24.0	506.9	518.7	529.6	507.1	497.2	465.9	455.5	438.2	444.0	441.6
27.0	328.6	334.6	344.6	330.8	328.3	306.3	299.8	288.4	293.6	291.3
30.0	193.0	191.6	198.2	191.1	195.8	186.9	187.7	184.6	188.8	186.0
33.0	113.4	110.2	113.4	113.1	116.1	112.7	115.5	117.0	119.5	117.3
36.0	74.12	74.75	76.64	75.09	75.46	73.79	75.06	75.39	77.44	77.10
39.0	52.04	52.38	54.07	52.87	52.93	51.55	51.94	51.86	53.29	52.78
42.0	36.22	35.99	37.35	36.59	37.02	36.19	36.71	36.25	36.83	35.96
45.0	25.34	25.07	26.12	25.95	26.38	25.86	25.99	25.52	25.54	24.98
48.0	16.55	16.29	17.21	17.25	17.52	16.96	16.99	16.36	16.22	15.75
51.0	11.32	11.04	11.80	11.95	12.06	11.57	11.59	11.13	11.00	10.86
54.0	7.802	7.652	8.292	8.432	8.450	8.054	8.121	7.797	7.602	7.484
57.0	5.177	5.038	5.527	5.546	5.398	5.189	5.388	5.271	5.122	5.011
60.0	3.314	3.135	3.455	3.402	3.258	3.181	3.442	3.410	3.348	3.196
63.0	1.886	1.782	1.991	1.959	1.884	1.849	2.050	2.046	2.002	1.803
66.0	0.7427	0.7045	0.8717	0.8817	0.8629	0.8030	0.8975	0.8777	0.8123	0.6459
69.0	0.2847	0.2753	0.2882	0.3044	0.2839	0.2956	0.2751	0.2933	0.2751	0.2867
72.0	0.2167	0.2054	0.2075	0.2255	0.2031	0.2210	0.2009	0.2167	0.2009	0.2167
75.0	0.1685	0.1551	0.1507	0.1750	0.1507	0.1685	0.1442	0.1663	0.1463	0.1663
78.0	0.1313	0.1158	0.1114	0.1313	0.1070	0.1269	0.1006	0.1226	0.1027	0.1248
81.0	0.1007	0.0852	0.0786	0.1006	0.0743	0.0963	0.0721	0.0941	0.0699	0.0919
84.0	0.0766	0.0612	0.0567	0.0722	0.0502	0.0700	0.0437	0.0657	0.0458	0.0678
87.0	0.0613	0.0415	0.0328	0.0525	0.0349	0.0503	0.0328	0.0481	0.0328	0.0482
90.0	0.0415	0.0415	0.0284	0.0284	0.0262	0.0306	0.0284	0.0284	0.0306	0.0306
G/C	300.0	315.0	330.0	345.0						
0.0	4831	4828	4829	4824						
3.0	4573	4543	4554	4524						
6.0	3934	3898	3919	3875						
9.0	3103	3063	3096	3043						
12.0	2253	2224	2255	2208						
15.0	1568	1545	1574	1537						
18.0	1052	1044	1066	1043						
21.0	688.1	689.4	705.6	691.8						

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	459.4	461.2	471.9	463.5
27.0	305.1	303.7	309.8	300.8
30.0	192.8	188.9	190.5	179.8
33.0	118.9	117.4	117.0	111.1
36.0	77.96	77.03	76.93	74.26
39.0	53.67	53.06	53.33	51.65
42.0	36.54	36.42	36.79	35.85
45.0	25.48	25.18	25.60	24.98
48.0	16.08	15.87	16.07	15.60
51.0	11.10	11.03	11.20	10.91
54.0	7.726	7.673	7.785	7.605
57.0	5.183	5.173	5.207	5.111
60.0	3.337	3.334	3.350	3.264
63.0	1.932	1.880	1.851	1.736
66.0	0.7620	0.6787	0.6599	0.5713
69.0	0.2708	0.2910	0.2752	0.2932
72.0	0.2009	0.2232	0.2053	0.2232
75.0	0.1464	0.1707	0.1507	0.1685
78.0	0.1048	0.1291	0.1092	0.1269
81.0	0.0721	0.0919	0.0742	0.0898
84.0	0.0437	0.0678	0.0458	0.0700
87.0	0.0328	0.0460	0.0328	0.0481
90.0	0.0262	0.0284	0.0284	0.0306

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: