
LED Tracklight BO Series LE-BO
L-42W-940-22D



Light Output Ratio:	100.0%	
Luminaire Power:	40.65 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: 2017-08-03

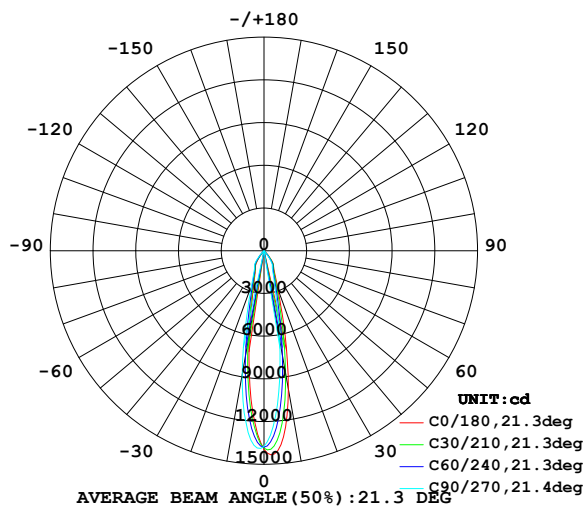
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

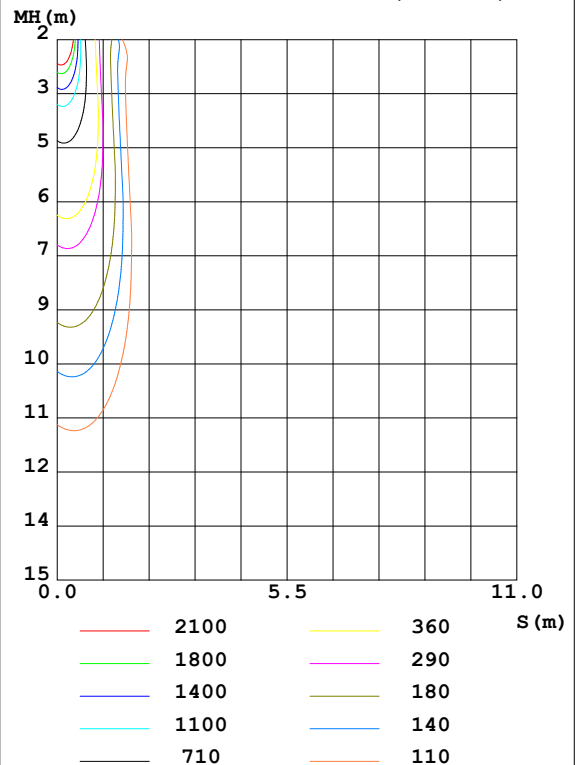
Test:U:220.6V I:0.1963A P:40.65W PF:0.9386 Lamp Flux:3641.57x1 lm		
NAME: BO L-42W-940-22D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 128mm*H120mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.59 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	14344	S/MH (C0/180)	0.30
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.41
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3641.6	η UP, DN (C0-180)	0.0, 46.6
NOMINAL FLUX (lm)	3641.57	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.4
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



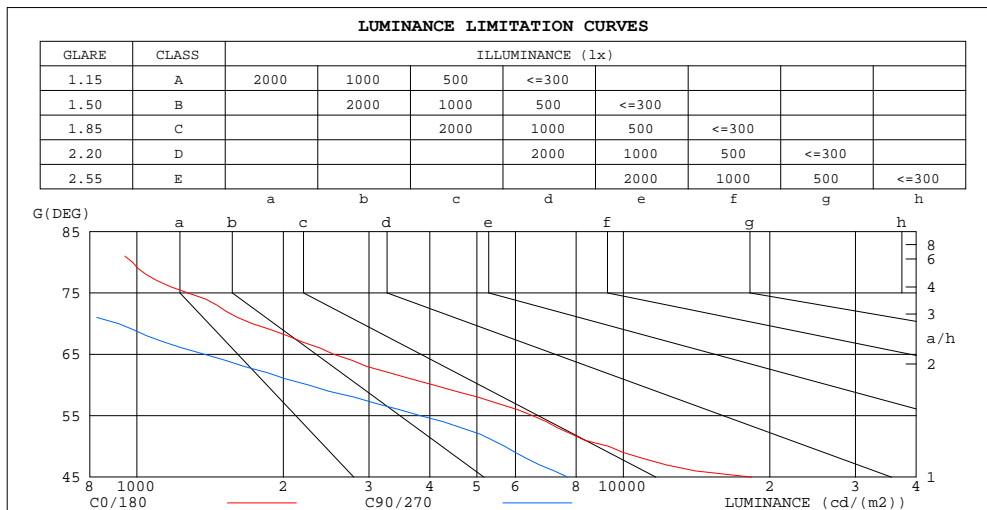
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-08-03

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:

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	986.6	822.4	637.1	557.5	586.5	682.5	883.1	1020	0- 10	998.2	998.2	27.4,27.4
20	284.8	239.1	200.5	184.6	191.7	212.9	255.7	285.6	10- 20	1169	2168	59.5,59.5
30	136.5	131.0	118.5	112.4	119.4	125.8	133.1	142.2	20- 30	752.3	2920	80.2,80.2
40	66.21	42.81	24.39	16.62	18.30	32.35	57.84	72.61	30- 40	559.0	3479	95.5,95.5
50	7.715	5.787	4.719	4.401	4.717	5.210	6.043	7.252	40- 50	116.4	3595	98.7,98.7
60	2.617	2.056	1.448	1.344	1.473	1.714	2.232	2.676	50- 60	32.13	3627	99.6,99.6
70	0.7596	0.5784	0.4035	0.4198	0.4952	0.5114	0.5752	0.7532	60- 70	10.87	3638	99.9,99.9
80	0.2187	0.0864	0.0306	0.0427	0.0723	0.0614	0.0643	0.1023	70- 80	2.996	3641	100,100
90	0.0168	0.0171	0.0175	0.0177	0.0116	0.0109	0.0107	0.0109	80- 90	0.3292	3642	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		



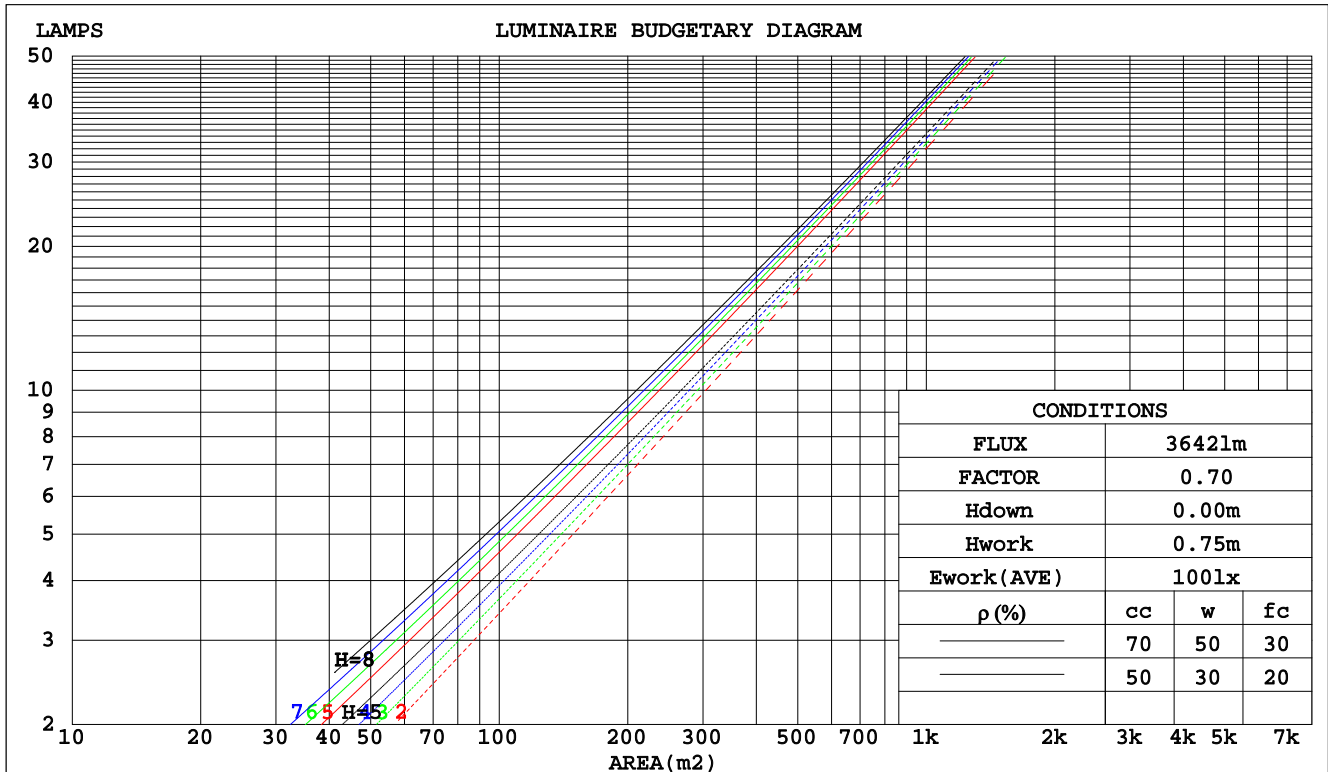
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: ϕ 128mm*H120mm	
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.95	.92	.98	.95	.91	.96	.93	.90	.94	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.86	.94	.89	.86	.91	.88	.85	.90	.86	.84	.88	.85	.83	.82
5.0	.90	.85	.82	.89	.85	.81	.87	.83	.80	.86	.82	.80	.84	.81	.79	.78
6.0	.86	.81	.77	.85	.80	.77	.84	.80	.77	.82	.79	.76	.81	.78	.76	.74
7.0	.82	.77	.74	.82	.77	.73	.80	.76	.73	.79	.75	.73	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
9.0	.76	.71	.67	.75	.71	.67	.74	.70	.67	.74	.70	.67	.73	.69	.67	.66
10.0	.73	.68	.65	.72	.68	.65	.72	.67	.65	.71	.67	.64	.70	.67	.64	.63



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WEC AND CCEC

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ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.156	.089	.028	.149	.085	.027	.137	.079	.025	.125	.072	.023	.115	.067	.021		
2.0	.148	.081	.025	.142	.078	.024	.132	.073	.023	.122	.068	.021	.113	.064	.020		
3.0	.139	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.110	.061	.019		
4.0	.132	.069	.020	.128	.067	.020	.120	.064	.019	.113	.061	.018	.107	.058	.018		
5.0	.125	.064	.018	.122	.062	.018	.115	.060	.018	.109	.058	.017	.104	.055	.017		
6.0	.119	.060	.017	.116	.059	.017	.110	.057	.016	.105	.055	.016	.100	.053	.016		
7.0	.113	.056	.016	.111	.055	.016	.106	.053	.015	.101	.052	.015	.097	.050	.015		
8.0	.108	.053	.015	.106	.052	.015	.101	.051	.014	.097	.049	.014	.093	.048	.014		
9.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.094	.047	.013	.090	.046	.013		
10.0	.099	.047	.013	.097	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.170	.157	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.075	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.095	.066	.046	.065	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.097	.062	.039	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.034	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.045	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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NAME: BO L-42W-940-22D					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: ϕ 128mm*H120mm					
MFR.:										
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	18.9	19.7	19.1	19.9	20.0	17.3	18.1	17.6	18.3	18.5
3H	18.8	19.5	19.0	19.7	19.9	17.2	17.9	17.4	18.1	18.3
4H	18.7	19.4	19.0	19.6	19.8	17.1	17.8	17.4	18.0	18.2
6H	18.6	19.3	18.9	19.5	19.8	17.0	17.7	17.3	17.9	18.2
8H	18.6	19.2	18.9	19.5	19.7	17.0	17.6	17.3	17.9	18.1
12H	18.5	19.1	18.8	19.4	19.7	16.9	17.5	17.3	17.8	18.1
4H 2H	18.7	19.4	19.0	19.6	19.8	17.1	17.8	17.4	18.0	18.3
3H	18.5	19.1	18.9	19.4	19.7	17.0	17.6	17.3	17.8	18.1
4H	18.5	19.0	18.8	19.3	19.6	16.9	17.4	17.2	17.7	18.0
6H	18.4	18.9	18.7	19.2	19.5	16.8	17.3	17.2	17.6	17.9
8H	18.3	18.8	18.7	19.1	19.5	16.7	17.2	17.1	17.5	17.9
12H	18.3	18.7	18.7	19.0	19.4	16.7	17.1	17.1	17.5	17.8
8H 4H	18.3	18.8	18.7	19.1	19.5	16.7	17.2	17.1	17.5	17.9
6H	18.2	18.6	18.6	19.0	19.4	16.6	17.0	17.1	17.4	17.8
8H	18.2	18.5	18.6	18.9	19.3	16.6	16.9	17.0	17.3	17.8
12H	18.1	18.4	18.6	18.8	19.3	16.5	16.8	17.0	17.2	17.7
12H 4H	18.3	18.7	18.7	19.0	19.4	16.7	17.1	17.1	17.5	17.8
6H	18.2	18.5	18.6	18.9	19.3	16.6	16.9	17.0	17.3	17.8
8H	18.1	18.4	18.6	18.8	19.3	16.5	16.8	17.0	17.2	17.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.6 / -10.9					+ 3.2 / -10.5				
1.5H	+ 6.2 / - 9.3					+ 5.7 / - 7.2				
2.0H	+ 6.0 / - 4.8					+ 2.8 / - 4.4				

CIE Pub.117 Corrected 3642 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.5)

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UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1963A P:40.65W PF:0.9386 Lamp Flux:3641.57x1 lm		
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MFR.:		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	90	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	99	95	101	97	95	91
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	111	109	112	110	108	109	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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):

3564.8 lm

%lum = 97.9%

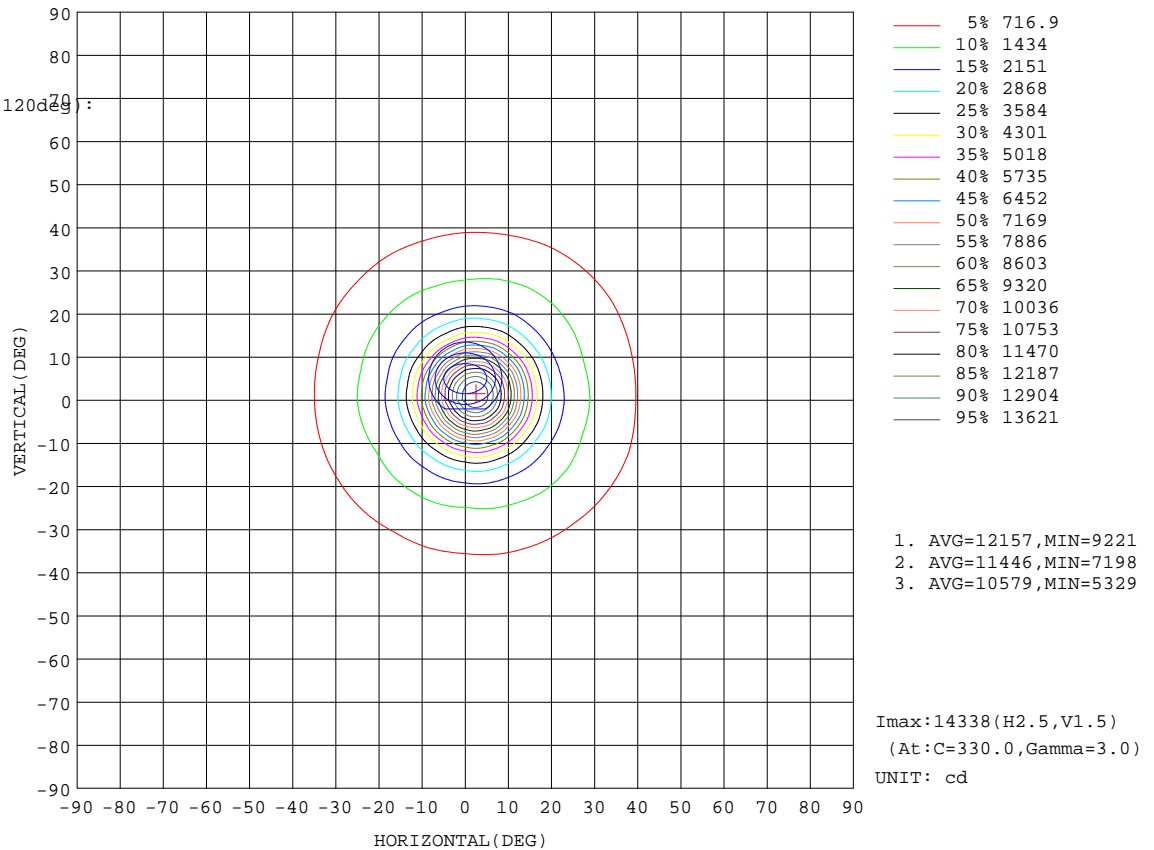
%lamp = 97.9%

Conical surface Flux(120deg):

3627.4 lm

%lum = 99.6%

%lamp = 99.6%

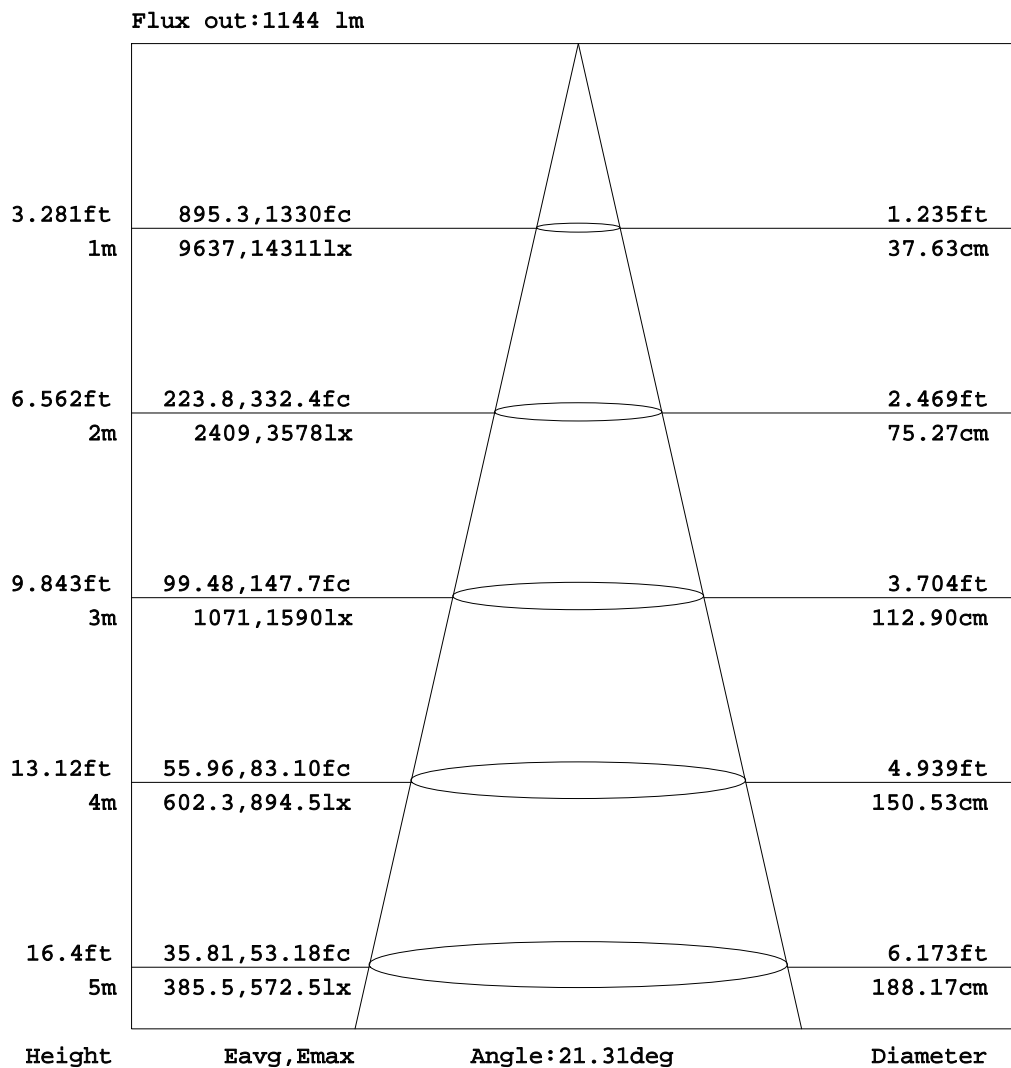


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AAI Figure

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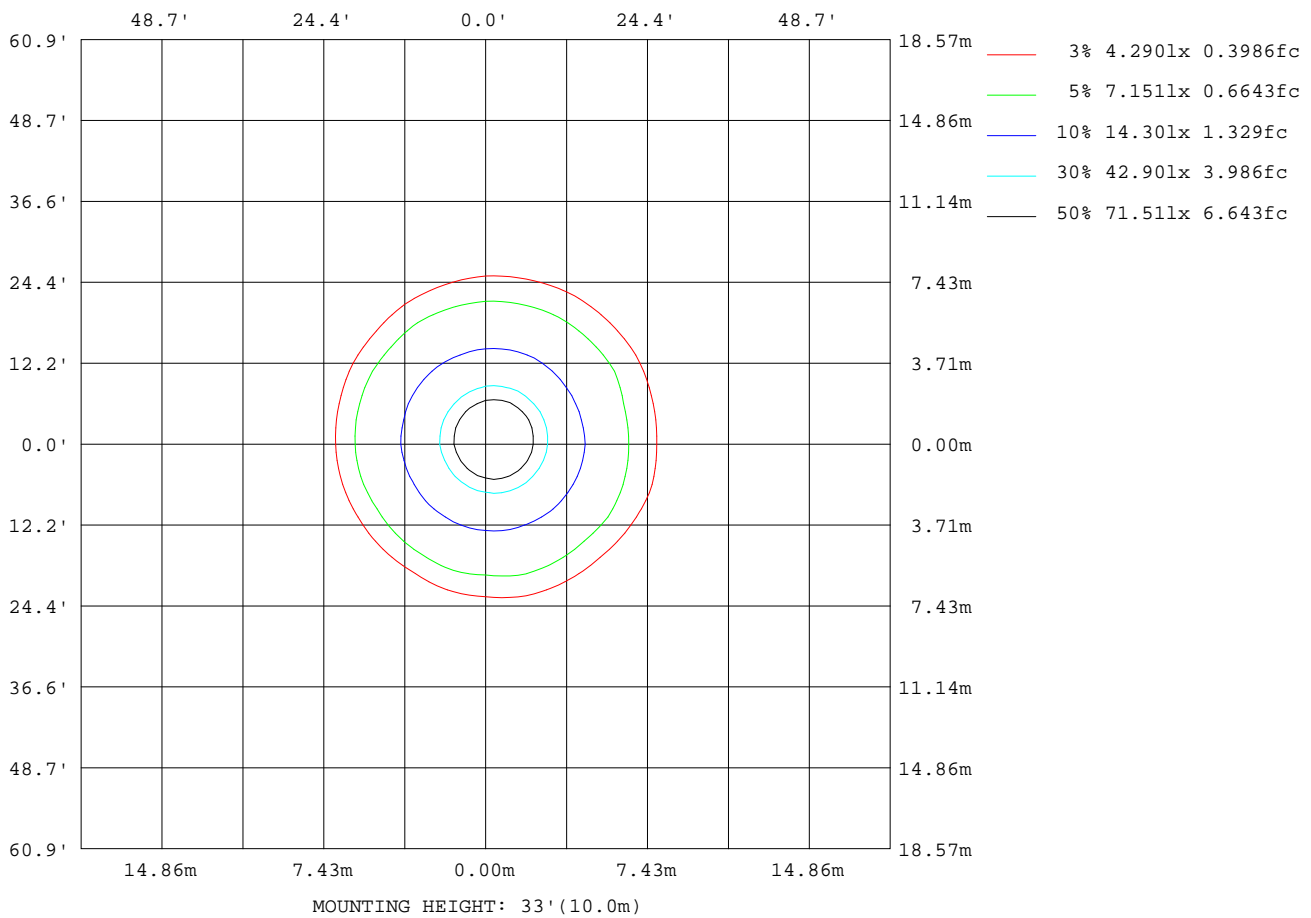
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

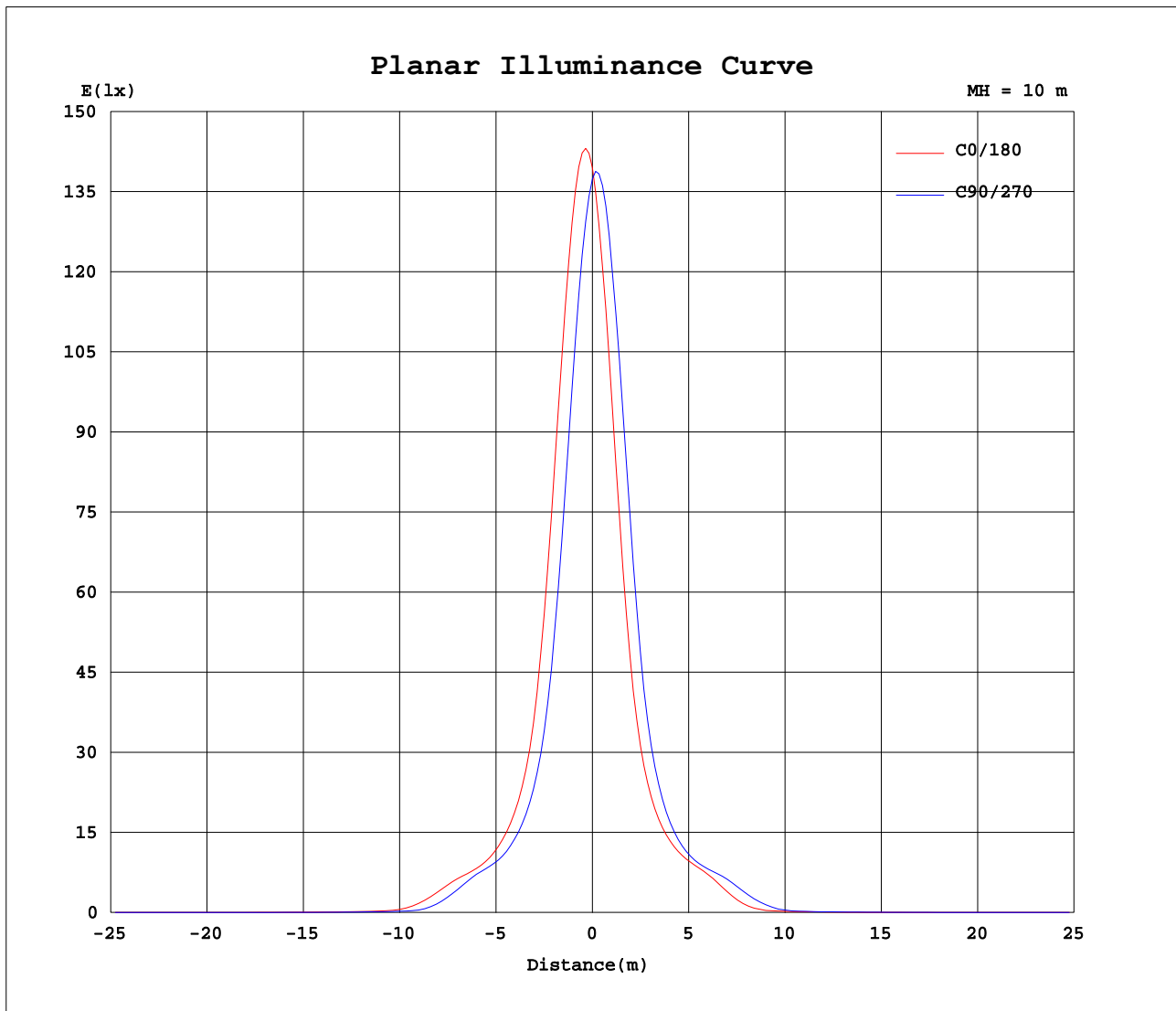
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Planar Illuminance Curve



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Table--2

UNIT: $\times 10\text{cd}$ [illegible]

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

```

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	13948	13874	13863	13814	13789	13771	13738	13750	13713	13747
3.0	14285	14061	13732	13420	13027	12730	12367	12128	11908	11830
6.0	13133	12768	12184	11699	11023	10572	9988	9678	9271	9183
9.0	10783	10403	9690	9157	8387	7886	7233	6908	6500	6403
12.0	7940	7567	6920	6441	5800	5378	4871	4612	4315	4246
15.0	5393	5063	4591	4269	3853	3605	3298	3145	2973	2931
18.0	3568	3403	3118	2938	2707	2571	2398	2302	2200	2181
21.0	2570	2461	2295	2183	2039	1953	1851	1799	1736	1720
24.0	1977	1897	1814	1746	1641	1578	1504	1486	1457	1439
27.0	1599	1537	1520	1478	1410	1369	1306	1309	1288	1272
30.0	1365	1333	1349	1310	1272	1249	1185	1186	1138	1124
33.0	1233	1233	1232	1152	1126	1093	985.4	951.0	862.3	857.8
36.0	1087	1111	1001	875.3	825.4	775.0	669.2	619.2	538.5	532.6
39.0	784.0	786.1	644.6	533.2	484.1	415.1	337.1	298.2	251.8	238.1
42.0	421.0	399.6	295.6	245.7	187.4	157.9	118.1	109.3	106.8	100.8
45.0	166.9	150.5	110.8	103.6	85.76	73.19	69.94	68.51	68.89	67.35
48.0	94.64	79.96	72.52	69.35	62.29	56.40	54.52	53.34	52.59	51.90
51.0	67.26	59.47	55.89	53.38	48.94	45.70	43.57	42.24	40.79	40.16
54.0	52.53	48.19	44.33	42.03	38.18	34.86	32.26	30.55	28.79	28.23
57.0	38.60	36.05	32.53	30.18	26.80	23.98	21.68	20.53	19.62	19.33
60.0	26.17	24.58	22.00	20.56	17.32	15.62	14.48	13.67	13.44	13.44
63.0	17.35	16.53	15.03	13.89	11.88	10.46	9.715	9.338	9.309	9.507
66.0	12.45	11.92	10.49	9.603	8.018	7.175	6.496	6.254	6.289	6.680
69.0	8.690	8.174	7.329	6.538	5.428	4.815	4.534	4.418	4.359	4.742
72.0	6.063	5.892	5.351	4.593	3.787	3.316	2.967	2.902	2.931	3.218
75.0	4.237	4.061	3.473	2.824	2.242	1.618	1.432	1.389	1.416	1.905
78.0	2.794	2.717	2.204	1.399	1.011	0.8245	0.7024	0.6694	0.7023	0.8641
81.0	1.901	1.723	1.049	0.6015	0.3299	0.2422	0.2217	0.1966	0.2173	0.2616
84.0	0.8513	0.7393	0.3524	0.1705	0.1794	0.1727	0.1750	0.1727	0.1706	0.1684
87.0	0.3058	0.2118	0.1728	0.1684	0.1684	0.1727	0.1749	0.1749	0.1705	0.1771
90.0	0.1684	0.1684	0.1662	0.1705	0.1705	0.1727	0.1749	0.1749	0.1771	0.1771
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	13731	13779	13948	13863	13814	13789	13771	13738	13750	13747
3.0	11768	11841	12139	12240	12466	12707	13049	13333	13671	13932
6.0	9032	9191	9536	9674	10144	10482	11092	11552	12139	12638
9.0	6261	6404	6709	6866	7338	7732	8429	8977	9751	10269
12.0	4146	4235	4442	4565	4917	5261	5777	6267	6994	7486
15.0	2874	2926	3054	3120	3349	3522	3855	4142	4632	4980
18.0	2139	2173	2259	2294	2444	2554	2743	2903	3178	3361
21.0	1692	1725	1788	1806	1896	1964	2080	2161	2315	2423
24.0	1409	1454	1503	1511	1570	1621	1677	1717	1797	1874
27.0	1244	1294	1334	1333	1372	1395	1435	1450	1492	1559
30.0	1117	1166	1194	1213	1238	1258	1298	1298	1331	1377
33.0	859.0	909.6	947.9	993.8	1057	1089	1176	1199	1231	1256
36.0	529.1	551.5	583.8	631.1	724.6	776.8	890.3	957.5	1047	1083
39.0	227.2	230.2	257.6	288.5	369.0	429.0	537.7	609.9	700.8	755.8
42.0	93.23	90.44	100.1	99.60	143.2	151.9	218.7	280.8	354.9	411.0
45.0	64.15	62.68	68.12	67.70	75.89	81.40	87.31	94.77	135.4	147.3
48.0	49.88	50.70	54.13	54.39	58.36	60.24	62.23	66.62	73.56	81.15
51.0	38.78	40.70	43.56	44.23	47.18	48.21	50.15	52.43	55.98	58.59
54.0	27.56	29.05	31.36	31.99	34.95	36.46	38.70	41.51	44.46	46.29
57.0	18.99	20.14	21.54	21.58	23.47	24.90	27.34	29.54	32.56	34.80
60.0	13.31	13.96	14.73	14.85	16.24	17.14	18.15	19.73	22.32	23.83
63.0	9.476	9.951	10.41	10.40	11.52	12.35	13.09	13.62	14.71	15.64
66.0	6.723	7.128	7.480	7.345	7.914	8.324	8.840	9.299	10.18	10.90
69.0	4.877	5.241	5.484	5.387	5.617	5.721	5.712	6.014	6.702	7.325
72.0	3.369	3.614	3.777	3.742	3.953	3.937	3.867	3.933	4.259	4.638
75.0	2.166	2.330	2.467	2.489	2.483	2.287	2.169	2.238	2.526	2.802
78.0	0.9756	1.124	1.211	1.216	1.200	1.061	0.9925	0.9816	1.075	1.179
81.0	0.3912	0.4597	0.5025	0.5176	0.5096	0.4213	0.3874	0.3775	0.4396	0.4871
84.0	0.1707	0.1684	0.1159	0.1294	0.1158	0.1316	0.1093	0.1380	0.1443	0.1752
87.0	0.1684	0.1749	0.1159	0.1137	0.1115	0.1115	0.1093	0.1181	0.1071	0.1533
90.0	0.1771	0.1837	0.1159	0.1115	0.1115	0.1093	0.1093	0.1093	0.1071	0.1137
G/C	300.0	315.0	330.0	345.0						
0.0	13713	13747	13731	13779						
3.0	14163	14293	14344	14306						
6.0	13113	13333	13468	13341						
9.0	10882	11106	11300	11095						
12.0	8090	8295	8483	8273						
15.0	5421	5624	5732	5624						
18.0	3607	3654	3748	3680						
21.0	2550	2554	2591	2585						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-08-03

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:

Photometric Data Table [cd]

24.0	1948	1942	1940	1944
27.0	1614	1607	1594	1568
30.0	1414	1422	1404	1359
33.0	1289	1297	1304	1239
36.0	1137	1149	1178	1111
39.0	826.7	845.1	868.9	819.4
42.0	474.6	493.7	493.6	460.8
45.0	187.5	195.6	205.4	196.2
48.0	85.88	91.44	96.10	101.8
51.0	60.46	65.20	65.66	69.67
54.0	48.05	49.31	51.18	53.03
57.0	36.80	37.56	39.24	39.39
60.0	25.59	26.76	27.79	27.33
63.0	17.17	18.19	18.61	18.14
66.0	11.77	12.77	13.47	13.00
69.0	8.062	8.651	9.490	9.224
72.0	5.138	5.680	6.363	6.259
75.0	3.115	3.482	4.250	4.418
78.0	1.361	1.702	2.512	2.833
81.0	0.6118	0.7716	1.175	1.830
84.0	0.1641	0.2069	0.4307	0.7610
87.0	0.1742	0.1486	0.1071	0.2352
90.0	0.1093	0.1093	0.1050	0.1115

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-03

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: