
LED Tracklight BO Series LE-BO
L-42W-930-60D



Light Output Ratio:	100.0%	
Luminaire Power:	41.24 W	
SHR Nominal:	1.00	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

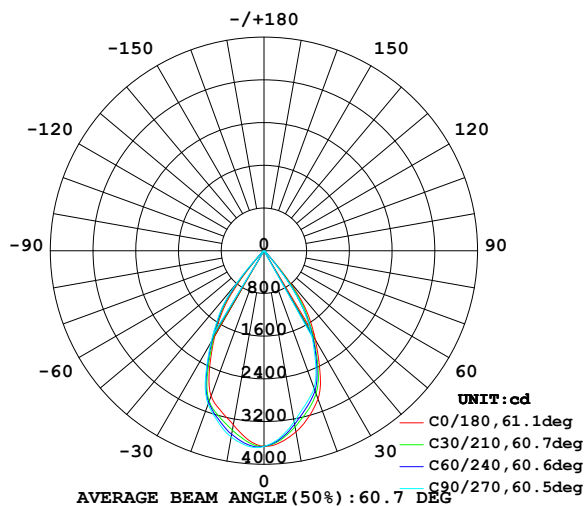
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

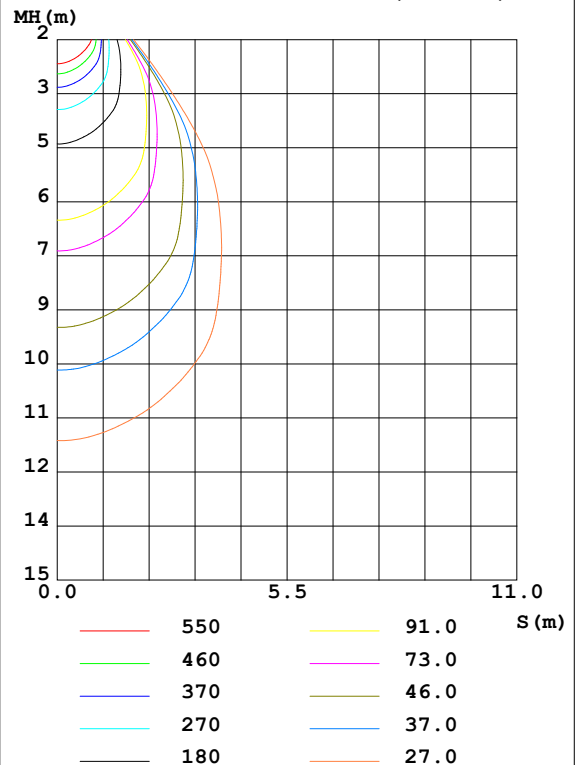
Test:U:220.6V I:0.1985A P:41.24W PF:0.9451 Lamp Flux:3365.65x1 lm		
NAME: BO L-42W-930-60D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 128mm*H120mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.62 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	3691	S/MH (C0/180)	0.92
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.95
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3365.7	η UP, DN (C0-180)	0.0, 47.8
NOMINAL FLUX (lm)	3365.65	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



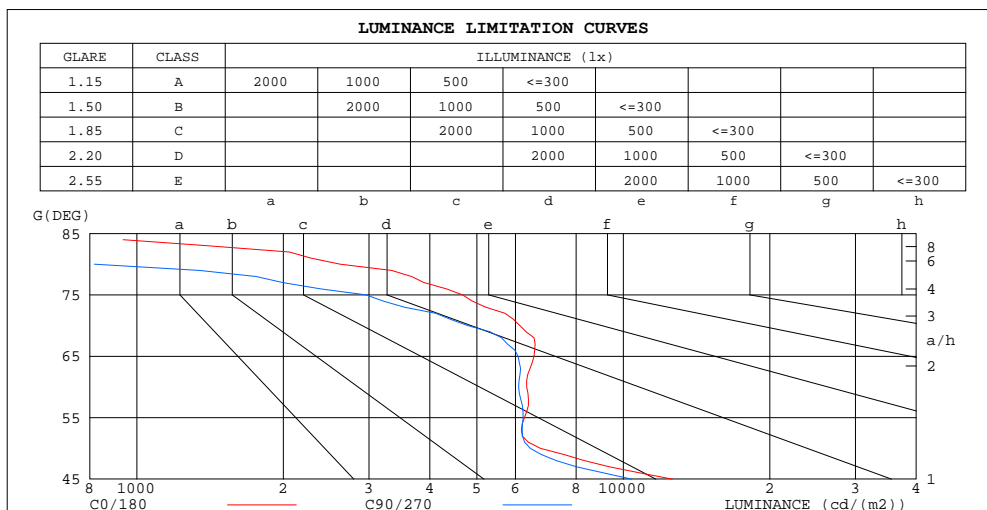
C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

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	3445	3312	3253	3293	3312	3464	3539	3529	0- 10	335.9	335.9	9.98,9.98
20	2959	2808	2741	2835	2896	3016	3060	3061	10- 20	891.7	1228	36.5,36.5
30	1927	1850	1760	1816	1849	1905	1993	1951	20- 30	1111	2338	69.5,69.5
40	635.0	496.7	397.8	412.0	527.6	687.1	803.8	785.3	30- 40	797.9	3136	93.2,93.2
50	55.87	55.13	53.25	51.15	54.12	54.12	61.28	57.54	40- 50	137.9	3274	97.3,97.3
60	40.69	41.23	39.19	40.86	41.56	41.69	42.84	42.66	50- 60	41.91	3316	98.5,98.5
70	26.97	26.33	21.08	25.30	26.72	26.30	25.39	27.24	60- 70	34.27	3350	99.5,99.5
80	5.846	3.953	1.826	3.032	5.221	3.967	3.834	4.663	70- 80	14.38	3365	100,100
90	0.2427	0.2427	0.2427	0.2405	0.1399	0.1465	0.1443	0.1443	80- 90	1.034	3366	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		



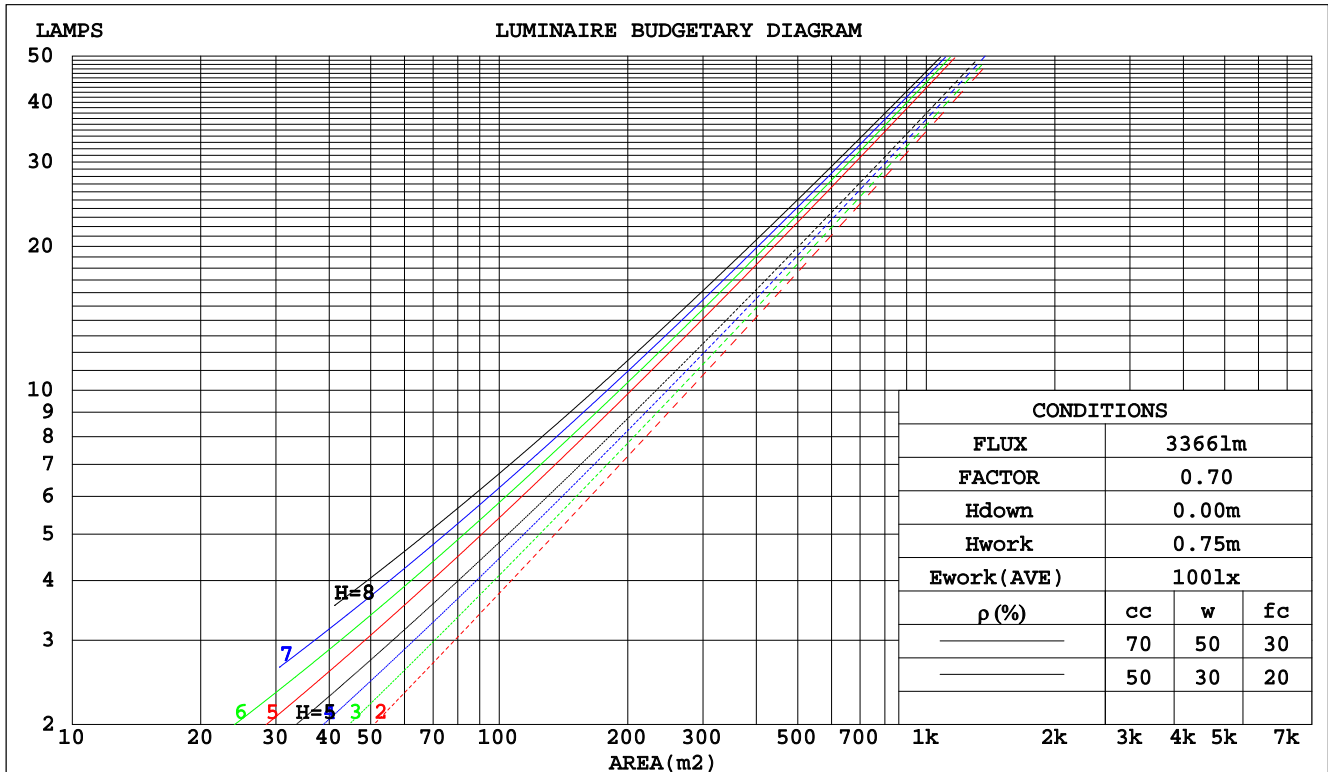
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: BO L-42W-930-60D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3.0	.96	.90	.86	.94	.89	.86	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.74
5.0	.83	.77	.73	.82	.77	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.77	.72	.67	.76	.71	.67	.74	.70	.67	.73	.69	.66	.65
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.66	.62	.69	.65	.62	.60
8.0	.69	.63	.59	.68	.63	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.57
9.0	.65	.59	.55	.65	.59	.55	.64	.58	.55	.63	.58	.55	.62	.58	.54	.53
10.0	.62	.56	.52	.61	.55	.52	.60	.55	.52	.59	.55	.51	.59	.54	.51	.50



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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	.182	.104	.033	.175	.100	.032	.163	.093	.030	.151	.087	.028	.140	.081	.026		
2.0	.175	.096	.029	.169	.093	.029	.158	.088	.027	.148	.083	.026	.139	.079	.025		
3.0	.166	.088	.027	.161	.086	.026	.152	.083	.025	.144	.079	.024	.136	.075	.023		
4.0	.158	.082	.024	.154	.081	.024	.146	.078	.023	.139	.075	.023	.132	.072	.022		
5.0	.151	.077	.022	.147	.076	.022	.140	.073	.022	.134	.071	.021	.128	.068	.021		
6.0	.144	.072	.021	.141	.071	.020	.135	.069	.020	.129	.067	.020	.124	.065	.019		
7.0	.137	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018		
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.120	.061	.017	.115	.059	.017		
9.0	.126	.061	.017	.124	.060	.017	.119	.059	.017	.115	.058	.017	.112	.057	.016		
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.108	.054	.016		

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	.171	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.036	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

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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]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1985A P:41.24W PF:0.9451 Lamp Flux:3365.65x1 lm										
NAME: BO L-42W-930-60D					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					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	20.3	21.3	20.6	21.5	21.7	19.6	20.6	19.8	20.7	20.9
3H	20.3	21.2	20.6	21.4	21.6	19.6	20.4	19.8	20.6	20.9
4H	20.3	21.1	20.6	21.4	21.6	19.5	20.3	19.8	20.6	20.8
6H	20.2	21.0	20.5	21.3	21.5	19.4	20.2	19.7	20.5	20.7
8H	20.2	21.0	20.5	21.2	21.5	19.4	20.1	19.7	20.4	20.7
12H	20.2	20.9	20.5	21.2	21.4	19.3	20.1	19.6	20.3	20.6
4H 2H	20.2	21.0	20.4	21.2	21.4	19.4	20.2	19.7	20.5	20.7
3H	20.2	20.9	20.5	21.2	21.5	19.4	20.2	19.7	20.4	20.7
4H	20.2	20.9	20.5	21.2	21.5	19.4	20.0	19.7	20.3	20.7
6H	20.1	20.7	20.5	21.1	21.4	19.3	19.9	19.7	20.2	20.6
8H	20.1	20.6	20.5	21.0	21.4	19.3	19.8	19.6	20.1	20.5
12H	20.1	20.5	20.5	20.9	21.3	19.2	19.7	19.6	20.1	20.5
8H 4H	20.1	20.6	20.5	21.0	21.3	19.3	19.8	19.7	20.2	20.5
6H	20.0	20.5	20.5	20.9	21.3	19.2	19.6	19.6	20.0	20.5
8H	20.0	20.4	20.5	20.8	21.3	19.2	19.5	19.6	20.0	20.4
12H	20.0	20.3	20.4	20.7	21.2	19.1	19.4	19.6	19.9	20.3
12H 4H	20.0	20.5	20.4	20.9	21.3	19.2	19.7	19.7	20.1	20.5
6H	20.0	20.4	20.4	20.8	21.2	19.2	19.5	19.6	20.0	20.4
8H	20.0	20.3	20.4	20.7	21.2	19.1	19.4	19.6	19.9	20.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.8 / - 6.5					+ 3.6 / - 5.9				
1.5H	+ 6.5 / - 6.5					+ 6.2 / - 5.9				
2.0H	+ 2.0 / - 0.5					+ 1.3 / - 0.8				

CIE Pub.117 Corrected 3366 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

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

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1985A P:41.24W PF:0.9451 Lamp Flux:3365.65x1 lm		
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SPEC.:3000K	DIM.: $\phi 128\text{mm} \times H120\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	94
2.50	110	106	103	109	105	102	105	103	101	95
3.00	112	108	106	110	107	104	107	104	102	96
4.00	114	111	109	112	109	107	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	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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SPEC.:3000K	DIM.: ϕ 128mm*H120mm	
MFR.:		

Conical surface Flux(90deg):

3242.6 lm

%lum = 96.3%

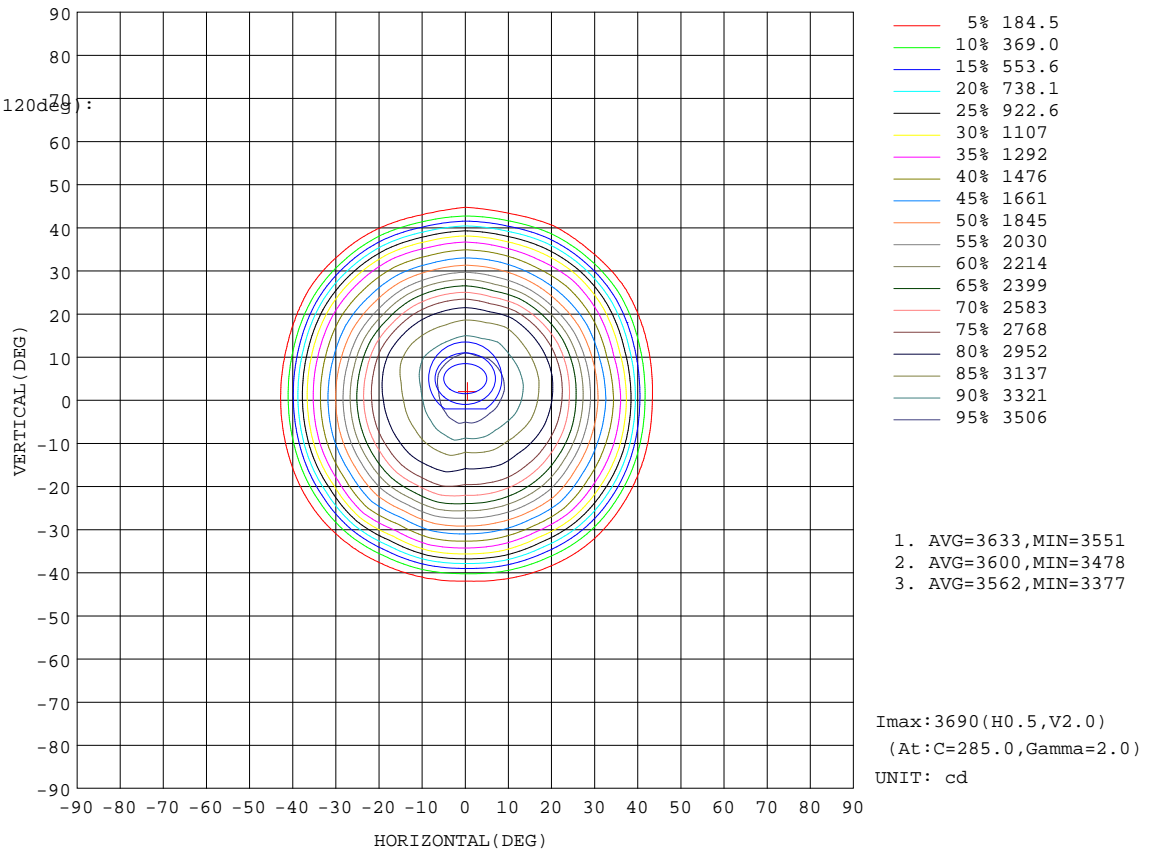
%lamp = 96.3%

Conical surface Flux(120deg):

3316 lm

%lum = 98.5%

%lamp = 98.5%

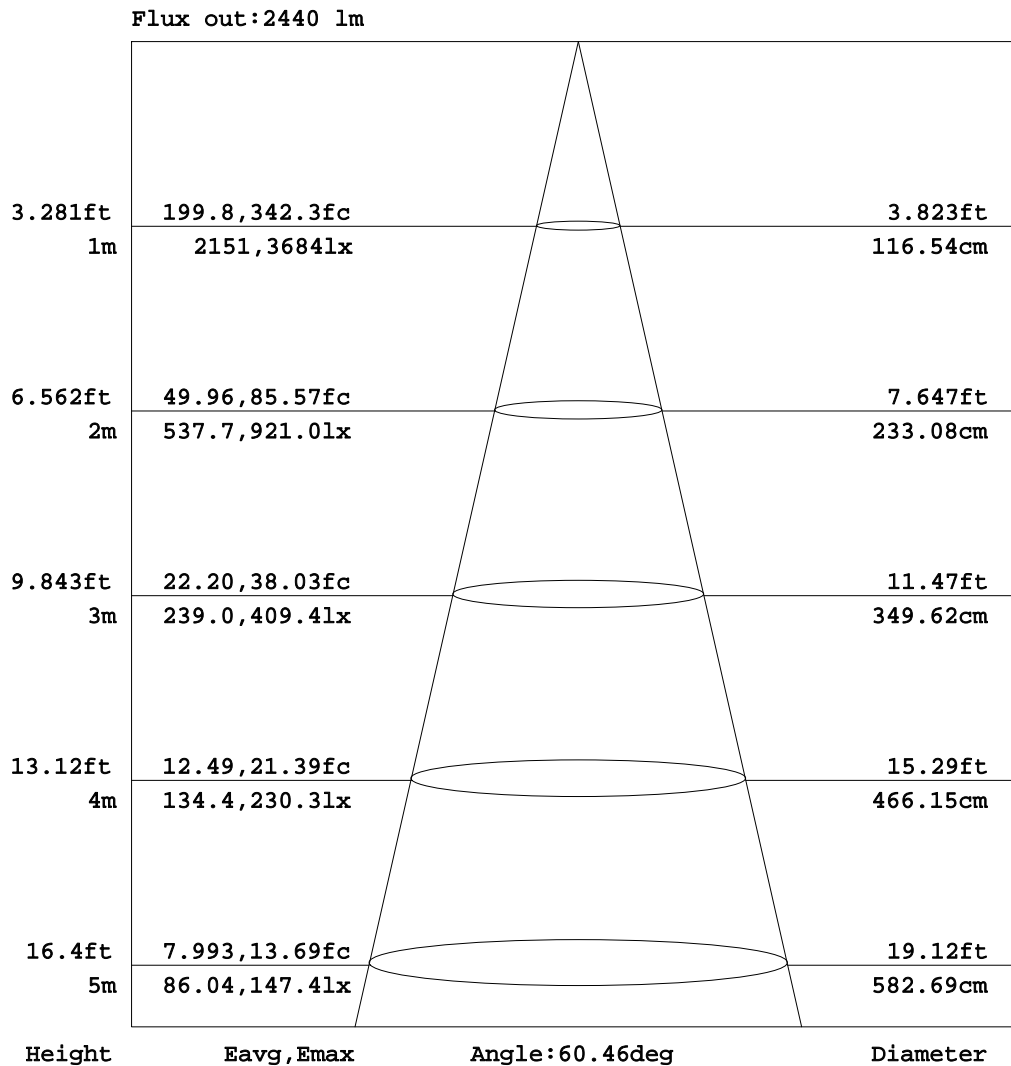


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AAI Figure

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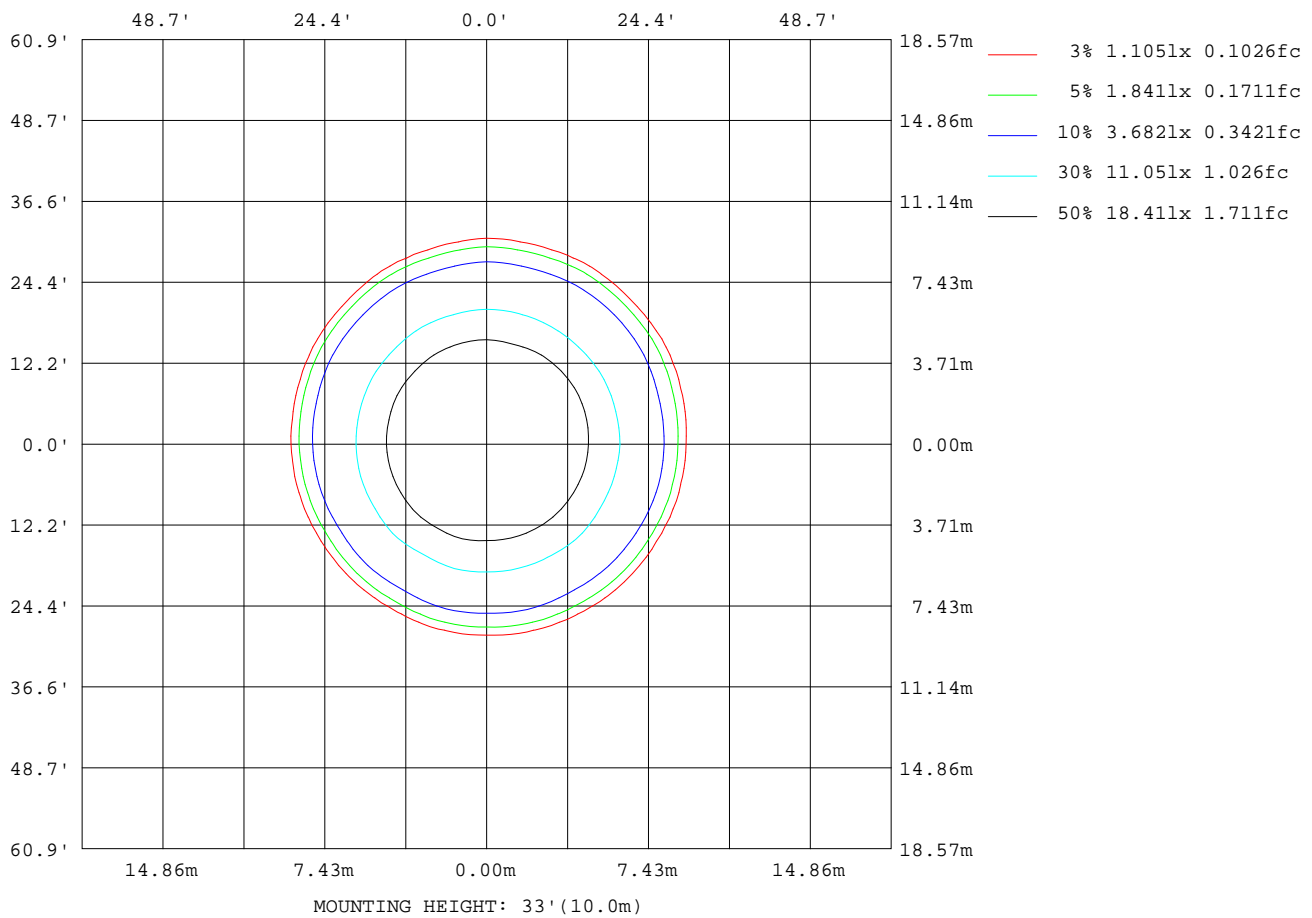
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

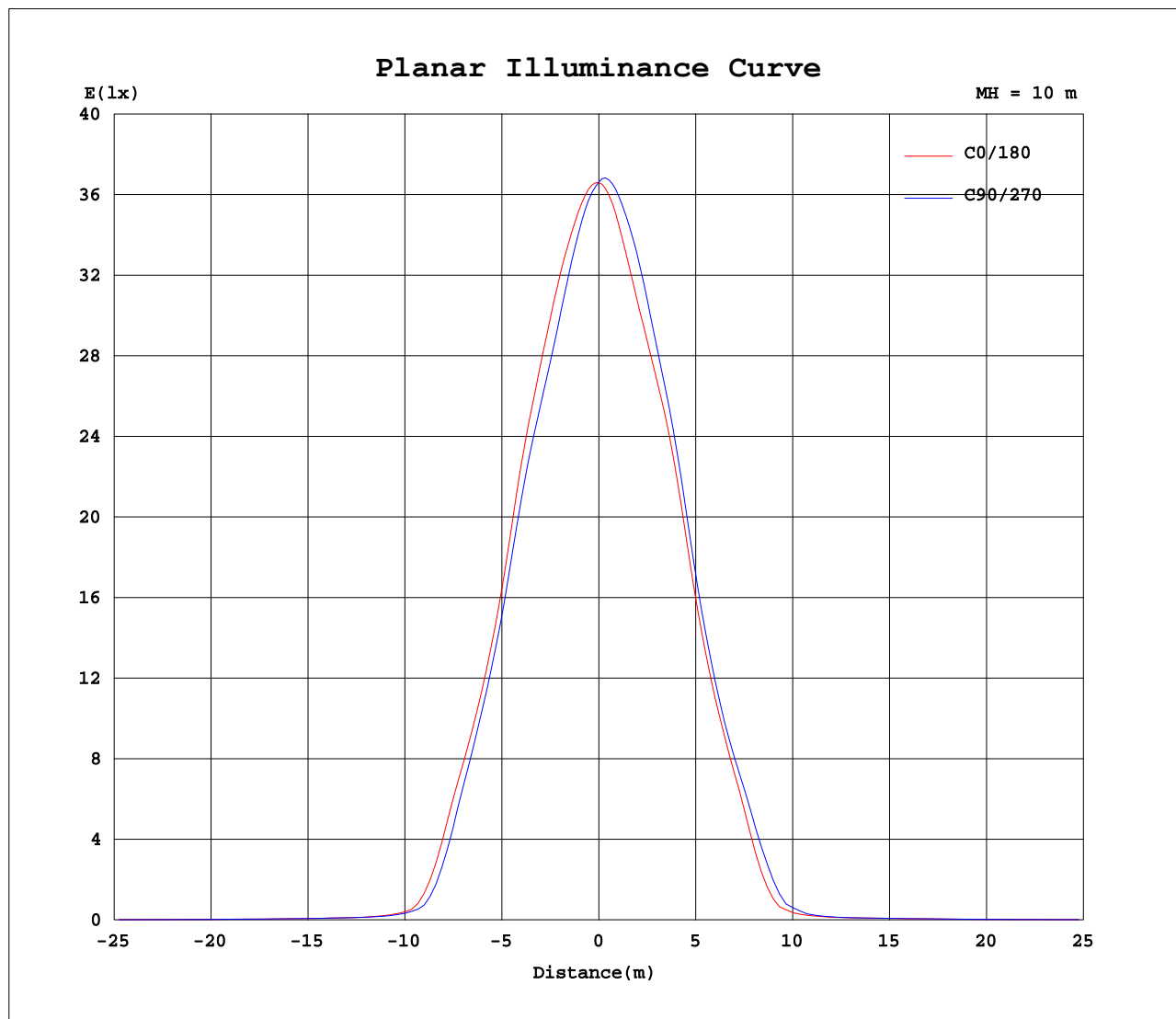
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Planar Illuminance Curve



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Table--1

UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

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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]
Remarks:

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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	3660	3659	3658	3660	3662	3664	3663	3671	3669	3671
3.0	3643	3632	3616	3608	3602	3598	3588	3603	3597	3601
6.0	3575	3550	3519	3502	3494	3484	3463	3488	3478	3482
9.0	3479	3444	3396	3364	3351	3334	3308	3352	3338	3342
12.0	3366	3321	3256	3213	3199	3167	3140	3201	3199	3199
15.0	3225	3183	3116	3064	3050	3015	2991	3053	3061	3073
18.0	3071	3028	2968	2915	2903	2868	2849	2914	2922	2945
21.0	2886	2839	2783	2745	2722	2692	2670	2735	2730	2762
24.0	2595	2558	2504	2472	2442	2413	2394	2446	2430	2470
27.0	2247	2209	2164	2158	2122	2082	2064	2103	2083	2135
30.0	1927	1877	1835	1850	1791	1770	1760	1783	1740	1816
33.0	1620	1570	1522	1530	1454	1450	1441	1459	1403	1502
36.0	1296	1256	1185	1148	1057	1081	1057	1070	997.6	1097
39.0	819.7	781.9	702.5	655.9	591.1	589.1	556.2	564.9	529.3	570.2
42.0	322.3	297.5	256.6	241.7	216.0	197.9	180.4	182.7	173.8	180.6
45.0	114.7	108.9	106.6	107.5	106.1	96.85	94.58	92.82	91.17	91.94
48.0	71.46	68.36	68.52	67.59	68.59	62.55	62.63	62.15	60.08	60.04
51.0	51.61	50.50	50.75	51.59	52.06	50.50	50.71	50.08	48.83	49.01
54.0	46.84	46.55	47.10	47.62	47.88	47.16	46.91	46.58	45.80	46.04
57.0	44.71	44.14	44.66	45.08	44.74	43.91	43.42	43.64	43.86	44.18
60.0	40.69	40.42	40.88	41.23	40.81	40.25	39.19	39.71	40.32	40.86
63.0	37.55	37.33	37.53	37.72	37.00	36.54	35.90	36.59	37.47	37.62
66.0	34.38	34.35	34.61	34.30	32.69	31.85	31.29	32.49	33.96	34.24
69.0	29.08	29.06	29.02	28.64	26.39	25.46	24.51	25.15	26.57	27.74
72.0	22.71	22.55	21.95	20.55	17.84	17.03	16.35	16.68	17.66	19.14
75.0	15.56	15.66	15.37	13.21	10.93	10.38	9.861	10.00	10.49	11.82
78.0	9.816	9.758	9.085	6.776	5.216	4.927	4.704	4.801	4.945	5.740
81.0	4.585	4.542	3.875	2.366	1.505	1.248	1.055	1.095	1.165	1.673
84.0	1.260	1.204	0.7662	0.4554	0.3450	0.3056	0.2709	0.2709	0.2878	0.3250
87.0	0.3291	0.2818	0.2608	0.2362	0.2471	0.2427	0.2603	0.2427	0.2428	0.2340
90.0	0.2427	0.2427	0.2427	0.2427	0.2427	0.2427	0.2427	0.2427	0.2405	0.2405
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3670	3671	3660	3659	3660	3662	3664	3664	3663	3671
3.0	3601	3612	3612	3623	3641	3655	3670	3680	3688	3684
6.0	3477	3489	3499	3519	3556	3588	3617	3631	3647	3643
9.0	3334	3349	3359	3393	3452	3498	3523	3550	3571	3557
12.0	3197	3211	3225	3265	3335	3387	3415	3435	3466	3448
15.0	3074	3091	3110	3149	3225	3271	3275	3284	3320	3311
18.0	2952	2971	2997	3044	3107	3134	3137	3137	3168	3169
21.0	2768	2803	2827	2873	2928	2940	2961	2968	2992	2972
24.0	2473	2503	2533	2561	2623	2635	2678	2690	2707	2661
27.0	2134	2157	2177	2192	2241	2246	2304	2320	2340	2289
30.0	1798	1830	1849	1864	1903	1905	1956	1964	1993	1964
33.0	1467	1517	1540	1553	1593	1591	1625	1618	1660	1651
36.0	1077	1162	1201	1233	1286	1305	1338	1323	1364	1333
39.0	576.3	640.9	700.4	750.0	830.9	863.9	912.7	905.4	966.5	928.8
42.0	199.7	220.8	251.1	272.2	321.7	345.5	406.6	415.1	474.8	449.8
45.0	96.16	99.69	105.0	104.1	111.5	114.2	134.9	130.0	174.5	141.3
48.0	61.57	62.97	66.11	67.03	66.40	68.47	71.57	71.94	80.92	78.36
51.0	49.68	50.45	51.26	50.51	50.64	50.56	52.40	52.61	55.55	54.94
54.0	46.41	47.21	48.28	47.49	47.05	46.67	46.87	47.14	48.35	48.59
57.0	43.73	44.30	45.37	45.05	45.17	44.81	44.51	44.84	45.76	46.32
60.0	40.16	40.82	41.56	40.89	41.44	41.69	41.26	41.29	42.84	43.32
63.0	36.98	37.62	38.19	37.49	37.48	37.63	37.31	37.42	38.56	38.86
66.0	33.27	33.49	34.37	34.06	34.24	34.37	34.12	33.90	34.66	34.39
69.0	27.24	27.88	28.76	28.48	28.76	28.50	27.88	27.00	27.80	28.37
72.0	19.39	20.38	21.63	21.21	21.59	20.81	19.44	19.02	19.57	19.74
75.0	12.90	14.25	15.00	14.90	15.06	13.50	12.34	11.70	12.07	12.30
78.0	7.261	8.206	8.806	8.699	8.599	6.787	5.975	5.697	6.092	6.124
81.0	2.955	3.836	4.207	4.094	3.792	2.445	2.073	1.783	1.992	1.998
84.0	0.4572	0.5880	0.8363	0.6549	0.6042	0.4141	0.3264	0.3407	0.3332	0.3608
87.0	0.2407	0.2427	0.1638	0.1778	0.1421	0.1663	0.1508	0.1837	0.1660	0.1838
90.0	0.2383	0.2427	0.1399	0.1465	0.1421	0.1465	0.1443	0.1465	0.1443	0.1443
G/C	300.0	315.0	330.0	345.0						
0.0	3669	3671	3670	3671						
3.0	3688	3683	3676	3666						
6.0	3643	3634	3624	3603						
9.0	3570	3560	3542	3519						
12.0	3468	3452	3435	3414						
15.0	3339	3305	3289	3268						
18.0	3205	3167	3143	3122						
21.0	3021	2996	2971	2945						

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	2720	2713	2701	2651
27.0	2331	2319	2322	2288
30.0	1965	1951	1968	1944
33.0	1630	1634	1639	1604
36.0	1323	1360	1329	1265
39.0	954.2	958.1	922.2	838.6
42.0	477.8	440.8	435.1	370.6
45.0	163.3	127.6	150.8	131.0
48.0	81.45	74.33	78.03	77.37
51.0	55.97	53.01	54.42	53.87
54.0	48.80	47.66	47.68	47.80
57.0	46.39	45.45	45.44	45.56
60.0	43.40	42.66	42.05	41.70
63.0	39.32	38.79	38.13	38.16
66.0	35.33	35.49	35.10	35.22
69.0	29.31	29.84	30.01	29.77
72.0	20.66	22.30	23.41	23.33
75.0	13.05	14.68	16.19	16.29
78.0	6.852	8.115	9.812	9.996
81.0	2.582	3.247	4.444	4.664
84.0	0.3895	0.5705	0.9696	1.257
87.0	0.1508	0.1686	0.1659	0.2657
90.0	0.1399	0.1443	0.1443	0.1552

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: