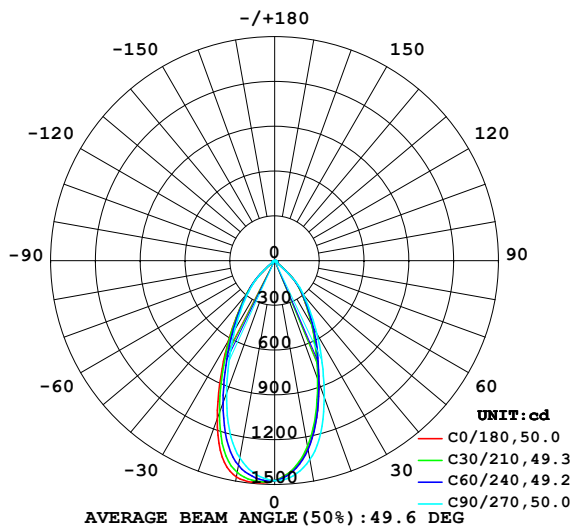


LUMINAIRE PHOTOMETRIC TEST REPORT

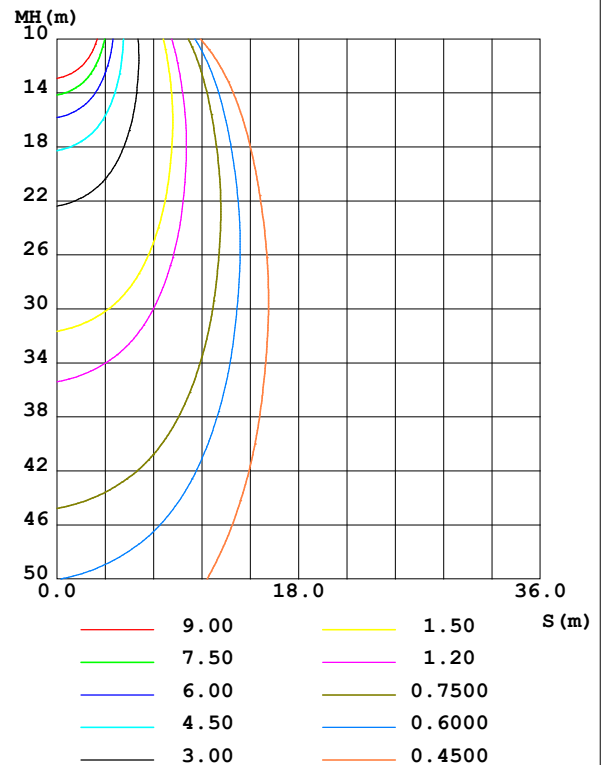
Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 107.30 lm/W
MODEL	369-12W	I _{max} (cd)	1504	S/MH(C0/180)	0.85	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.76	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1230.8	η UP,DN(C0-180)	0.0,50.7	
NOMINAL FLUX(lm)	1230.76	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.3	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	220	η down (%)	100.0	CIBSE SHR MAX	0.80	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1281	1273	1355	1472	1471	1416	1344	1283	0- 10	135.3	135.3	11,11
20	865.9	853.7	973.0	1166	1127	1044	945.7	860.5	10- 20	332.0	467.3	38,38
30	503.6	511.0	569.2	658.2	618.2	588.2	536.1	488.7	20- 30	344.9	812.2	66,66
40	277.6	287.3	306.3	325.4	295.7	287.6	272.7	255.7	30- 40	254.5	1067	86.7,86.7
50	19.85	17.62	17.04	17.74	18.29	22.20	24.55	20.62	40- 50	128.3	1195	97.1,97.1
60	16.50	14.63	14.01	14.67	15.52	17.40	18.27	17.68	50- 60	15.69	1211	98.4,98.4
70	10.06	8.311	6.954	8.716	9.236	10.71	10.38	10.56	60- 70	12.85	1224	99.4,99.4
80	3.211	2.201	1.444	2.805	2.869	3.445	2.829	3.472	70- 80	6.223	1230	99.9,99.9
90	0	0	0	0	0	0	0	0.0304	80- 90	0.9321	1231	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		

Conical surface Flux(90deg): 1154.9 lm

%lum = 93.8%

%lamp = 93.8%

Conical surface Flux(130deg): 1217.9 lm

%lum = 99.0%

%lamp = 99.0%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-12-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks: 1313 中昊1254B RA90

LUMINANCE LIMITATION CURVES

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz

Lamp Flux:1230.76x1 lm

NAME:

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.:

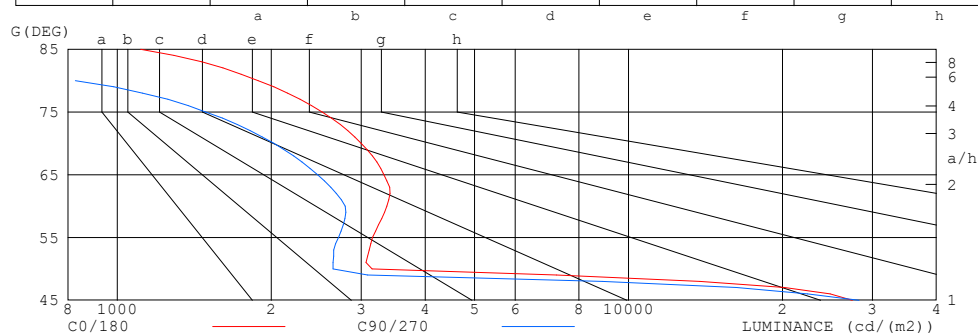
MFR.: EVERFINE

SUR.:

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



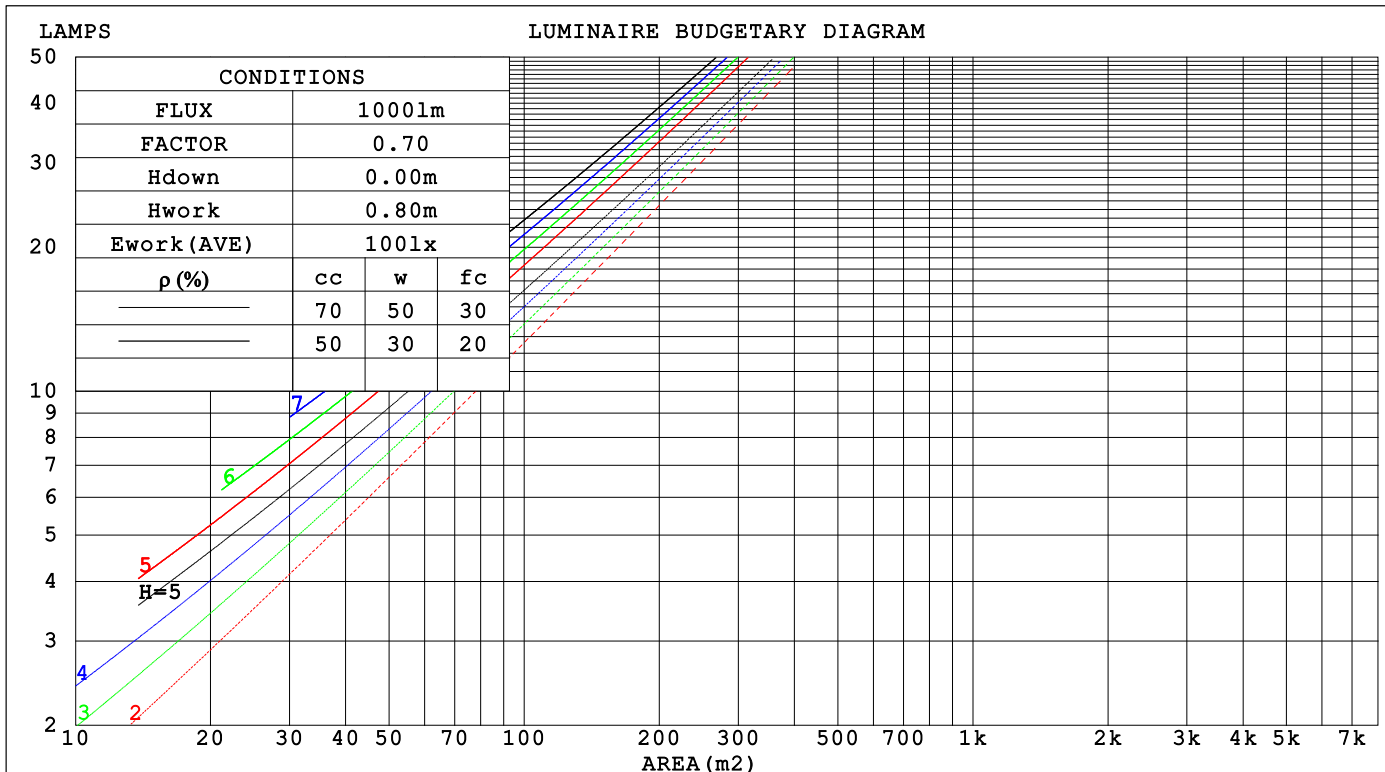
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

WEC AND CCEC

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.186	.106	.033	.179	.102	.032	.167	.096	.031	.155	.089	.029	.144	.084	.027		
2.0	.178	.098	.030	.173	.095	.029	.162	.090	.028	.152	.085	.027	.143	.081	.026		
3.0	.170	.090	.027	.165	.088	.027	.156	.085	.026	.148	.081	.025	.140	.077	.024		
4.0	.162	.084	.025	.157	.082	.024	.150	.079	.024	.142	.076	.023	.135	.074	.022		
5.0	.154	.078	.023	.150	.077	.022	.143	.075	.022	.137	.072	.021	.131	.070	.021		
6.0	.147	.073	.021	.143	.072	.021	.137	.070	.020	.132	.068	.020	.126	.066	.020		
7.0	.140	.069	.020	.137	.068	.019	.132	.067	.019	.127	.065	.019	.122	.063	.019		
8.0	.134	.065	.018	.131	.065	.018	.126	.063	.018	.122	.062	.018	.117	.060	.018		
9.0	.128	.062	.017	.125	.061	.017	.121	.060	.017	.117	.059	.017	.113	.057	.017		
10.0	.122	.059	.016	.120	.058	.016	.116	.057	.016	.113	.056	.016	.109	.055	.016		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.157	.132	.112	.135	.114	.097	.092	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.145	.114	.088	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008		
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007		
6.0	.120	.078	.049	.103	.068	.042	.071	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.025	.039	.025	.015	.013	.008	.005		
8.0	.107	.065	.035	.093	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004		
9.0	.102	.060	.031	.088	.052	.027	.061	.036	.019	.036	.021	.011	.012	.007	.004		
10.0	.098	.055	.027	.084	.048	.023	.058	.034	.017	.034	.020	.010	.011	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

UGR(Unified Glare Rating) Table

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.: 3000K			DIM.:			SERIAL No.:				
MFR.: EVERFINE			SUR.:			Shielding Angle:				
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	17.6	18.6	17.9	18.8	19.0	17.8	18.8	18.0	19.0	19.1
3H	17.6	18.5	17.9	18.7	18.9	17.7	18.6	18.0	18.8	19.0
4H	17.6	18.4	17.8	18.6	18.9	17.6	18.5	17.9	18.7	18.9
6H	17.5	18.3	17.8	18.6	18.8	17.6	18.4	17.9	18.6	18.9
8H	17.5	18.3	17.8	18.5	18.8	17.5	18.3	17.8	18.5	18.8
12H	17.4	18.2	17.8	18.5	18.7	17.5	18.2	17.8	18.5	18.8
4H 2H	17.4	18.3	17.7	18.5	18.7	17.6	18.4	17.9	18.7	18.9
3H	17.4	18.2	17.7	18.4	18.7	17.5	18.2	17.8	18.5	18.8
4H	17.4	18.1	17.8	18.4	18.7	17.5	18.1	17.8	18.4	18.7
6H	17.4	18.0	17.8	18.3	18.7	17.4	18.0	17.8	18.3	18.6
8H	17.4	17.9	17.8	18.3	18.6	17.3	17.9	17.7	18.2	18.6
12H	17.3	17.8	17.7	18.2	18.6	17.3	17.8	17.7	18.2	18.5
8H 4H	17.3	17.9	17.7	18.2	18.6	17.3	17.9	17.7	18.2	18.6
6H	17.3	17.7	17.7	18.1	18.5	17.3	17.7	17.7	18.1	18.5
8H	17.3	17.7	17.7	18.1	18.5	17.2	17.6	17.7	18.0	18.5
12H	17.2	17.6	17.7	18.0	18.5	17.2	17.5	17.6	17.9	18.4
12H 4H	17.3	17.8	17.7	18.1	18.5	17.3	17.8	17.7	18.2	18.6
6H	17.2	17.6	17.7	18.1	18.5	17.2	17.6	17.7	18.0	18.5
8H	17.2	17.6	17.7	18.0	18.5	17.2	17.5	17.6	18.0	18.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.4 / - 6.5					+ 2.3 / - 8.3				
1.5H	+ 3.3 / - 7.6					+ 3.8 / - 9.1				
2.0H	+ 7.1 / - 4.5					+ 7.9 / - 5.2				

CIE Pub.117, 1231 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)
Area: 0.01 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

UTILIZATION FACTORS TABLE

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

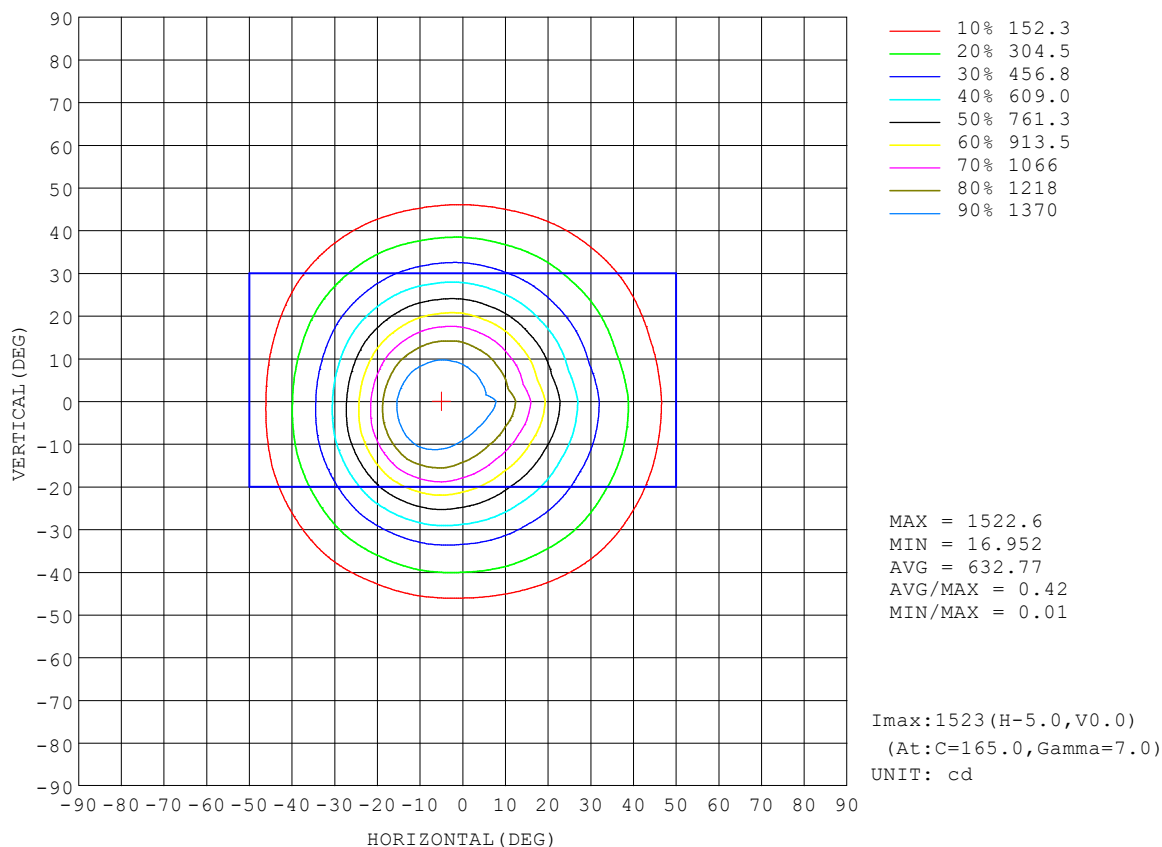
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	83	76	72	83	76	72	82	76	72	68
0.80	91	85	81	91	84	80	89	84	80	76
1.00	97	90	86	96	90	86	94	90	86	81
1.25	101	95	91	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	102	98	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

ISOCANDELA DIAGRAM

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

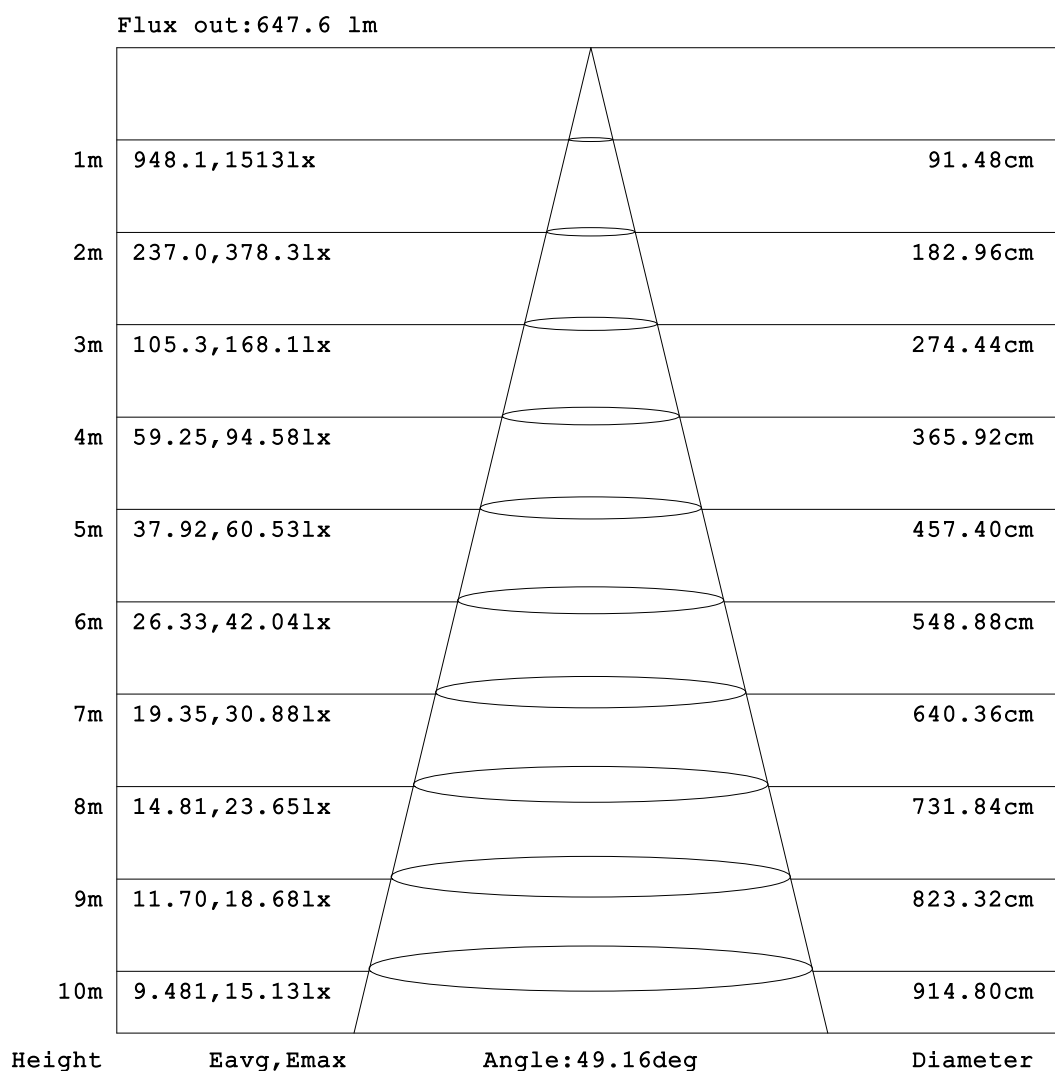


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

AAI Figure

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



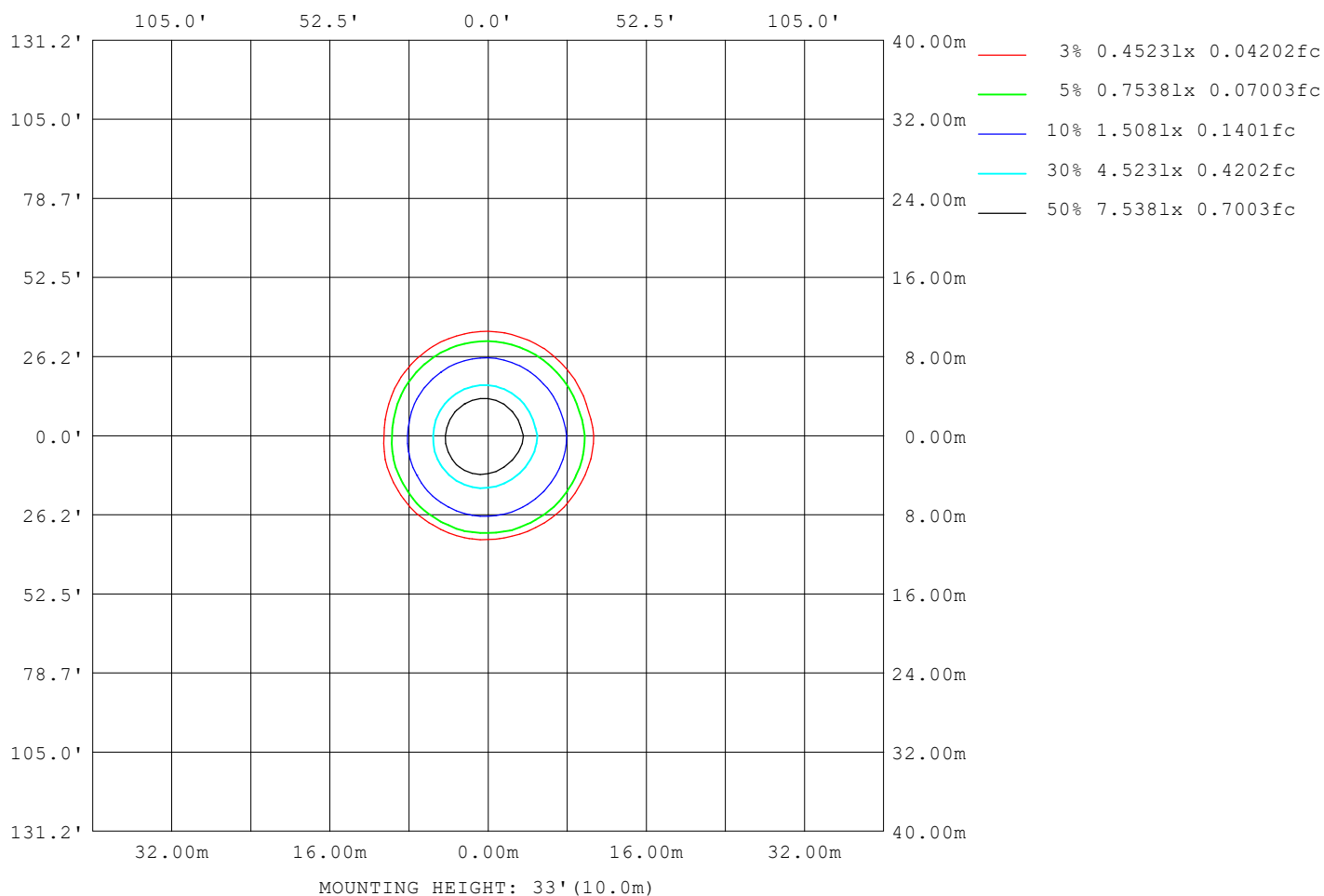
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

ISOLUX DIAGRAM

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-12-13

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

LED Avg.L Report

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

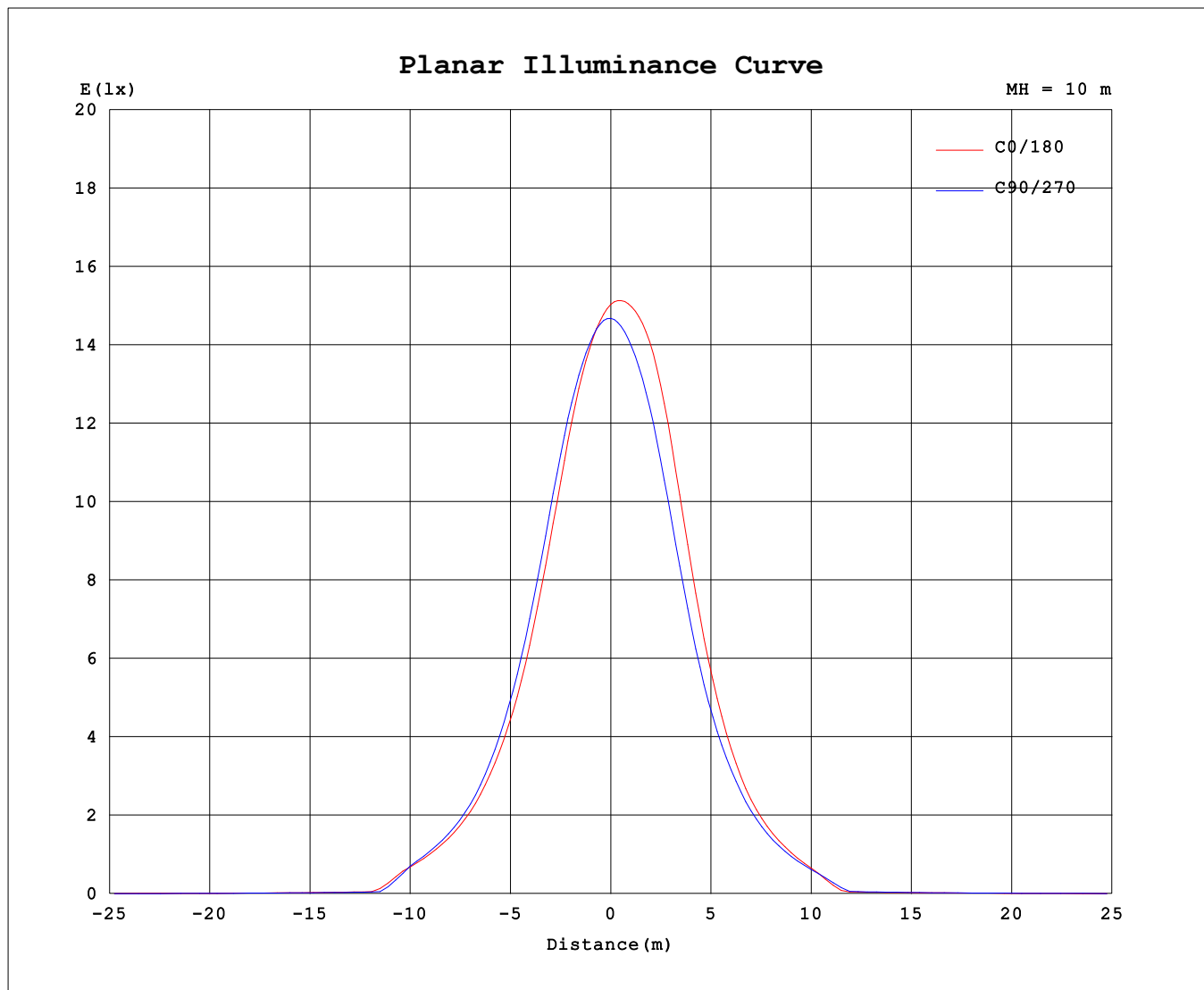
AvgL	cd/m2
L_0~180 (65) av	3142
L_0~180 (75) av	2352
L_0~180 (85) av	986
L_90~270 (65) av	2987
L_90~270 (75) av	1954
L_90~270 (85) av	197
L_45 (65) av	3136
L_45 (75) av	2338
L_45 (85) av	637

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-12-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks: 1313 中昊1254B RA90

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-12-13

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

```

Test:U:230.38V I:0.0828A P:11.470W PF:0.6012 Freq:50.00Hz Lamp Flux:1230.76x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks: 1313 中昊1254B RA90

```