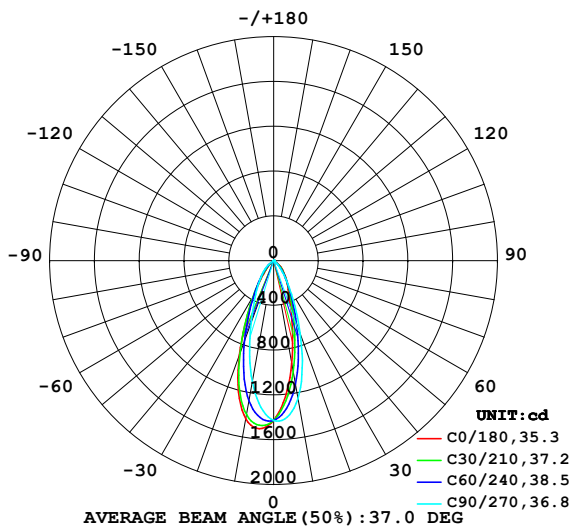


LUMINAIRE PHOTOMETRIC TEST REPORT

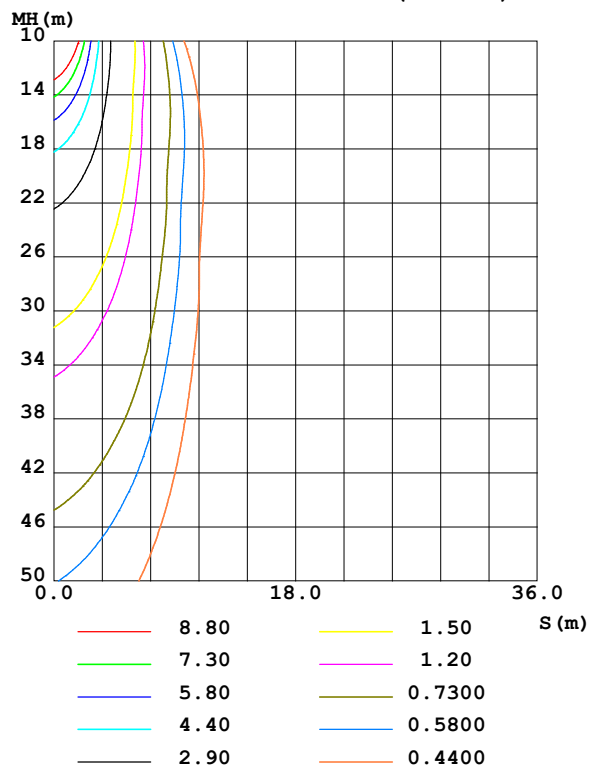
Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 66.75 lm/W
MODEL	HYD-371-12W	I _{max} (cd)	1530	S/MH (C0/180)	0.71	
NOMINAL POWER(W)	12	LOR (%)	100.0	S/MH (C90/270)	0.56	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	797.45	η UP,DN (C0-180)	0.0,49.4	
NOMINAL FLUX(lm)	797.455	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.6	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	230	η down (%)	100.0	CIBSE SHR MAX	0.65	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	936.1	1066	1252	1424	1436	1339	1100	913.6	0- 10	124.3	124.3	15.6,15.6
20	453.1	563.1	697.4	867.5	896.9	828.4	592.6	433.3	10- 20	255.3	379.6	47.6,47.6
30	247.8	266.6	283.3	331.6	348.7	362.1	305.3	248.8	20- 30	208.3	587.8	73.7,73.7
40	145.8	129.8	104.6	102.1	109.5	143.1	163.7	155.4	30- 40	126.2	714.0	89.5,89.5
50	72.40	44.81	17.71	22.77	25.01	46.49	72.14	81.87	40- 50	66.94	781.0	97.9,97.9
60	4.529	4.880	5.625	6.274	6.248	5.444	4.670	4.323	50- 60	11.10	792.1	99.3,99.3
70	2.523	2.232	1.979	3.146	3.819	2.673	1.772	2.011	60- 70	4.063	796.1	99.8,99.8
80	0.3774	0.1248	0.1156	0.1761	0.6554	0.2220	0.0601	0.1655	70- 80	1.267	797.4	100,100
90	0	0	0	0	0	0	0	0	80- 90	0.0449	797.5	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): 753.93 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(130deg): 794.43 lm

%lum = 99.6%

%lamp = 99.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-10-08

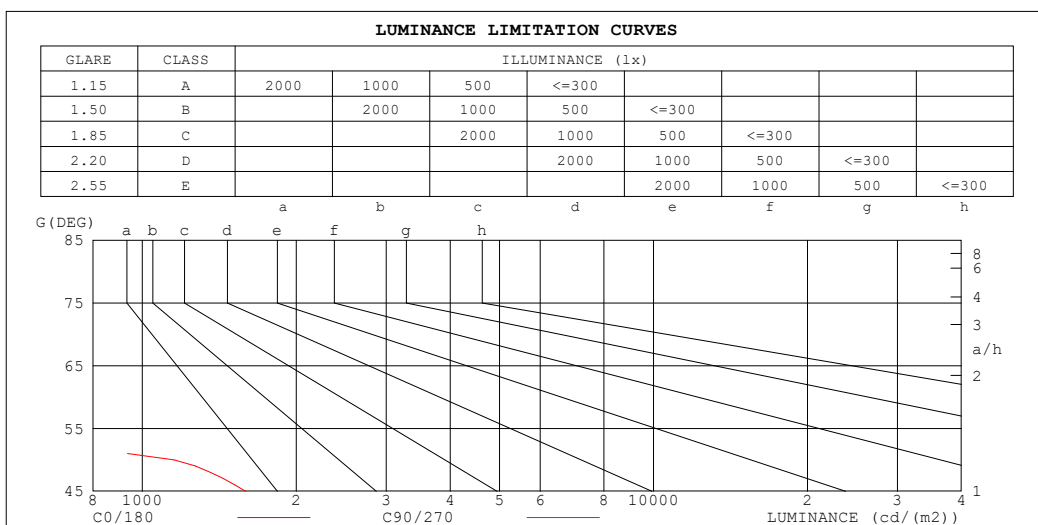
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks: M-1025

LUMINANCE LIMITATION CURVES

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz

Lamp Flux:797.455x1 lm

NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	5
80	22	7
75	51	26
70	76	57
65	95	89
60	93	112
55	91	109
50	1155	274
45	1592	841

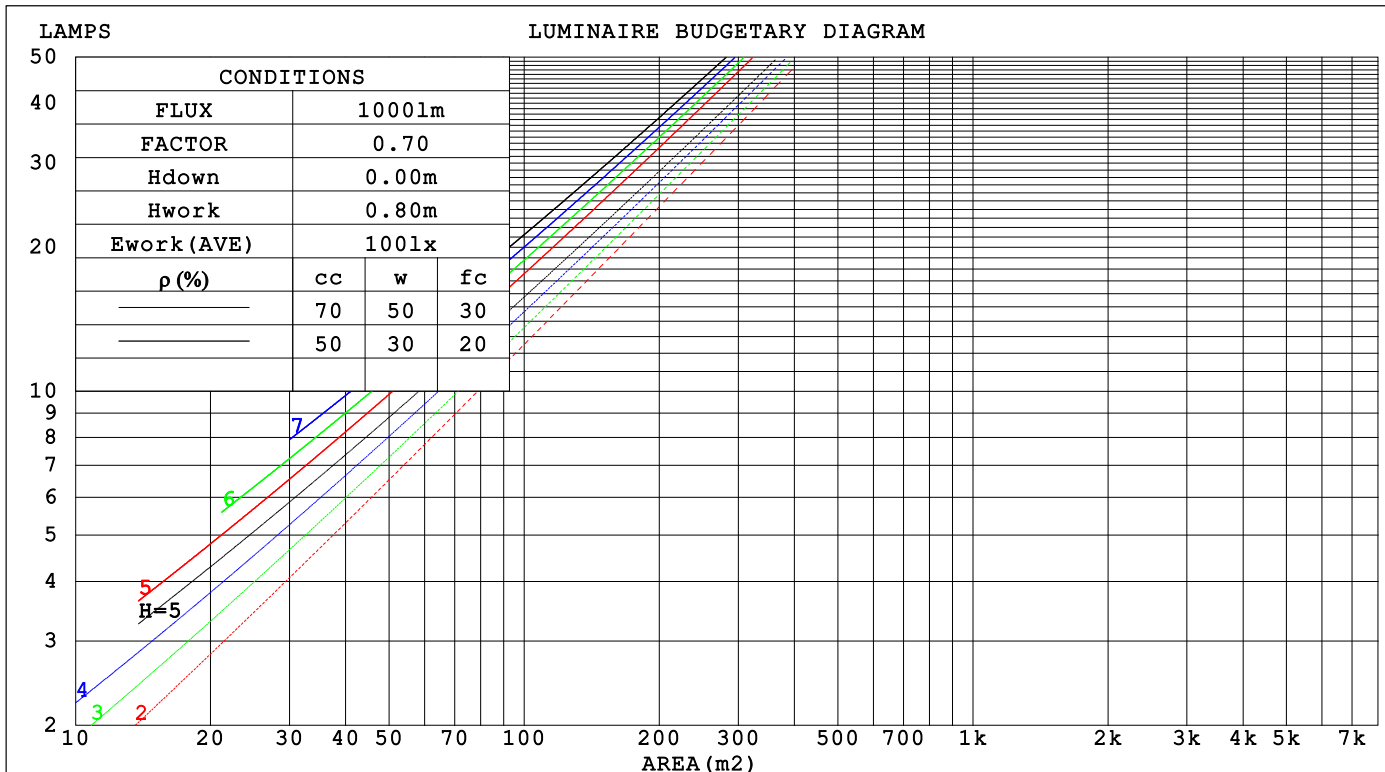
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 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°C
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

WEC AND CCEC

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 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	.173	.098	.031	.166	.095	.030	.153	.088	.028	.142	.082	.026	.131	.076	.025		
2.0	.165	.091	.028	.160	.088	.027	.149	.083	.026	.139	.078	.024	.130	.074	.023		
3.0	.157	.084	.025	.152	.082	.025	.143	.078	.024	.135	.074	.023	.127	.070	.022		
4.0	.149	.078	.023	.145	.076	.022	.137	.073	.022	.130	.070	.021	.124	.067	.020		
5.0	.142	.072	.021	.138	.071	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019		
6.0	.135	.068	.019	.132	.067	.019	.126	.065	.019	.121	.063	.018	.116	.061	.018		
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.060	.017	.112	.058	.017		
8.0	.123	.060	.017	.121	.060	.017	.116	.058	.017	.112	.057	.016	.108	.055	.016		
9.0	.118	.057	.016	.116	.056	.016	.112	.055	.016	.108	.054	.015	.104	.053	.015		
10.0	.113	.054	.015	.111	.054	.015	.107	.053	.015	.104	.052	.015	.101	.051	.015		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016		
2.0	.155	.133	.113	.133	.114	.098	.091	.079	.068	.053	.046	.040	.017	.015	.013		
3.0	.143	.114	.090	.122	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011		
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.026	.015	.011	.009		
5.0	.123	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007		
6.0	.116	.078	.050	.099	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006		
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005		
8.0	.103	.064	.037	.089	.055	.032	.062	.039	.023	.036	.023	.014	.012	.008	.004		
9.0	.098	.059	.032	.084	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.093	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

UGR(Unified Glare Rating) Table

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 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	8.8	9.7	9.0	9.8	10.0	7.2	8.1	7.4	8.3	8.5
3H	8.6	9.5	8.9	9.7	9.9	7.1	7.9	7.3	8.1	8.3
4H	8.5	9.3	8.8	9.6	9.8	7.0	7.8	7.3	8.0	8.2
6H	8.5	9.2	8.8	9.4	9.7	6.9	7.7	7.2	7.9	8.1
8H	8.4	9.1	8.7	9.4	9.6	6.9	7.6	7.2	7.8	8.1
12H	8.4	9.1	8.7	9.3	9.6	6.8	7.5	7.1	7.8	8.0
4H 2H	8.5	9.3	8.8	9.5	9.8	7.0	7.8	7.3	8.0	8.2
3H	8.4	9.1	8.7	9.3	9.6	6.8	7.5	7.2	7.8	8.1
4H	8.3	8.9	8.6	9.2	9.5	6.8	7.4	7.1	7.7	8.0
6H	8.2	8.8	8.6	9.1	9.4	6.7	7.2	7.0	7.5	7.9
8H	8.2	8.7	8.5	9.0	9.4	6.6	7.1	7.0	7.5	7.8
12H	8.1	8.6	8.5	8.9	9.3	6.6	7.0	7.0	7.4	7.8
8H 4H	8.2	8.7	8.5	9.0	9.4	6.6	7.1	7.0	7.5	7.8
6H	8.1	8.5	8.5	8.9	9.3	6.5	6.9	6.9	7.3	7.7
8H	8.0	8.4	8.4	8.8	9.2	6.5	6.8	6.9	7.2	7.7
12H	7.9	8.3	8.4	8.7	9.2	6.4	6.7	6.9	7.2	7.6
12H 4H	8.1	8.6	8.5	8.9	9.3	6.6	7.0	7.0	7.4	7.8
6H	8.0	8.4	8.4	8.8	9.2	6.5	6.8	6.9	7.2	7.7
8H	7.9	8.3	8.4	8.7	9.2	6.4	6.7	6.9	7.2	7.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / -11.1					+ 2.6 / -10.4				
1.5H	+ 2.7 / -12.7					+ 3.4 / -11.0				
2.0H	+ 6.5 / -10.6					+ 6.4 / - 7.9				

CIE Pub.117, 797.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

UTILIZATION FACTORS TABLE

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

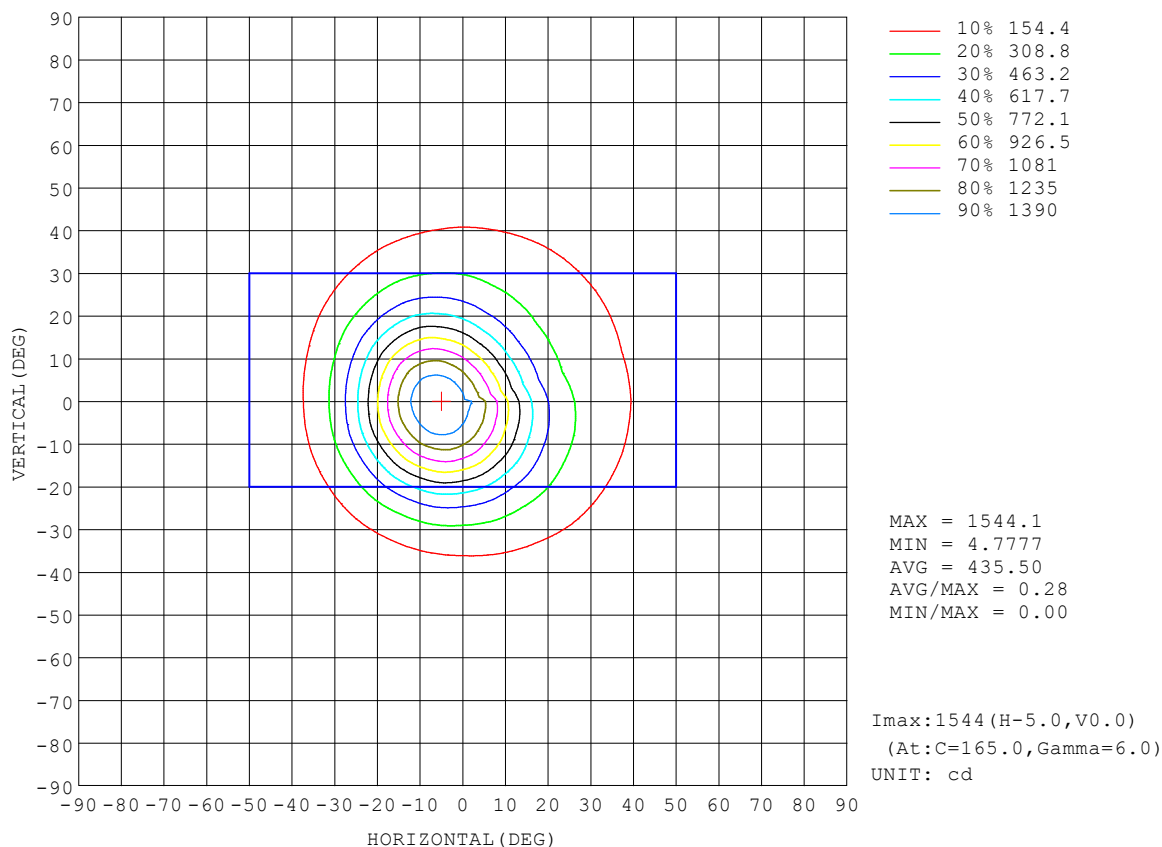
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	84	78	74	84	78	74	70
0.80	93	87	83	92	86	82	91	86	82	78
1.00	98	92	88	97	91	88	95	91	87	83
1.25	102	97	93	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	102	98	95	90
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	110	113	110	109	109	107	106	98
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: 2025-10-08

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: M-1025

ISOCANDELA DIAGRAM

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

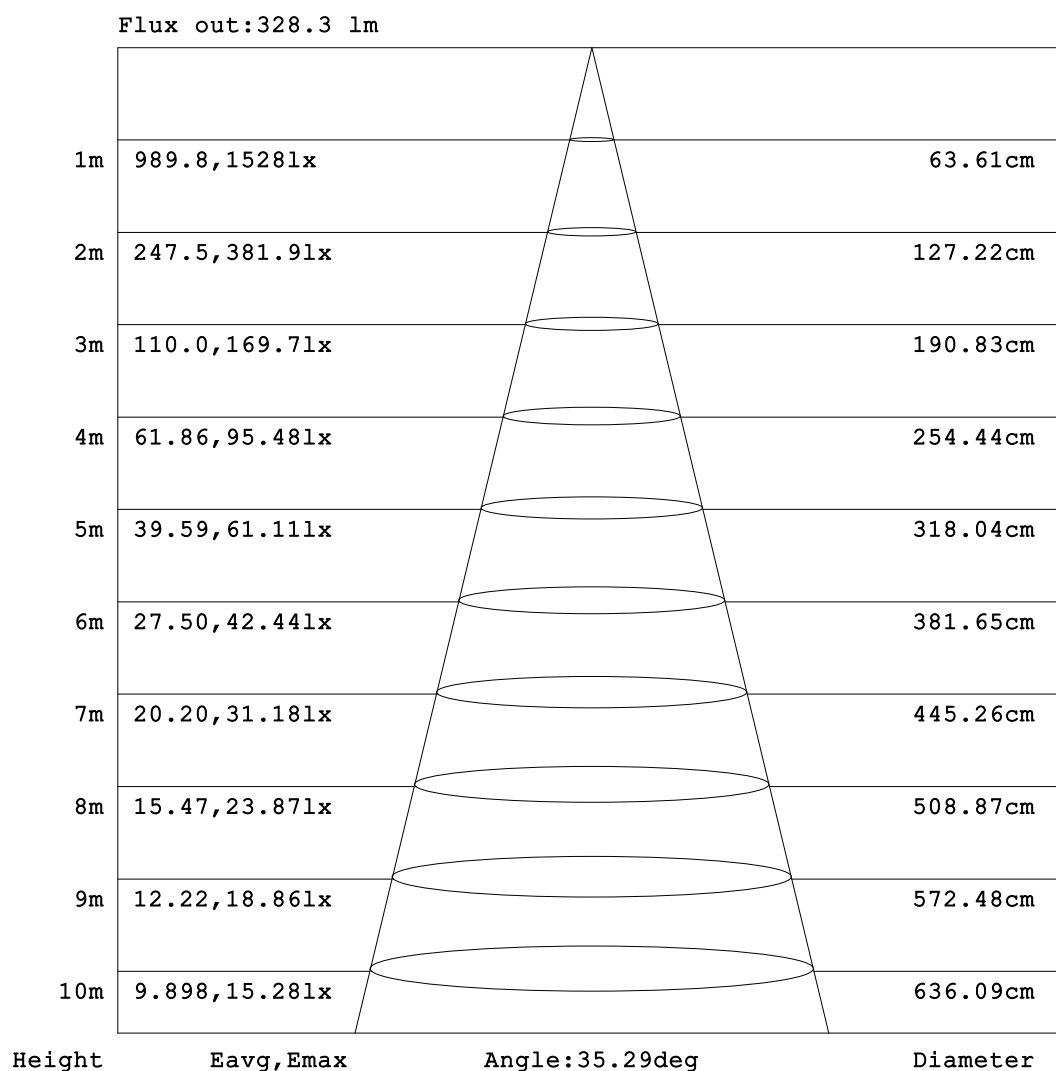


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

AAI Figure

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

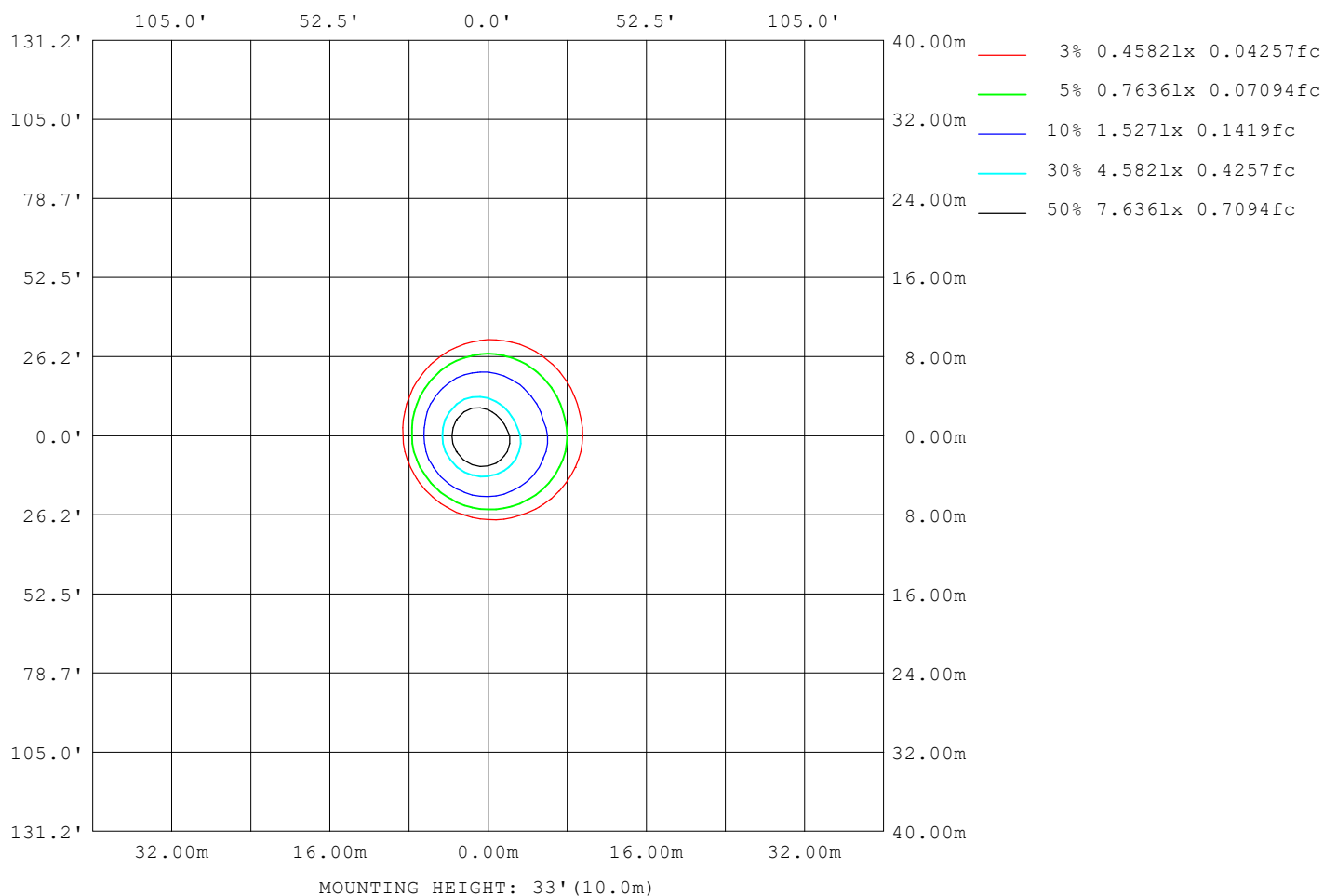


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-10-08

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: M-1025

ISOLUX DIAGRAM

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 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:2025-10-08

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: M-1025

LED Avg.L Report

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

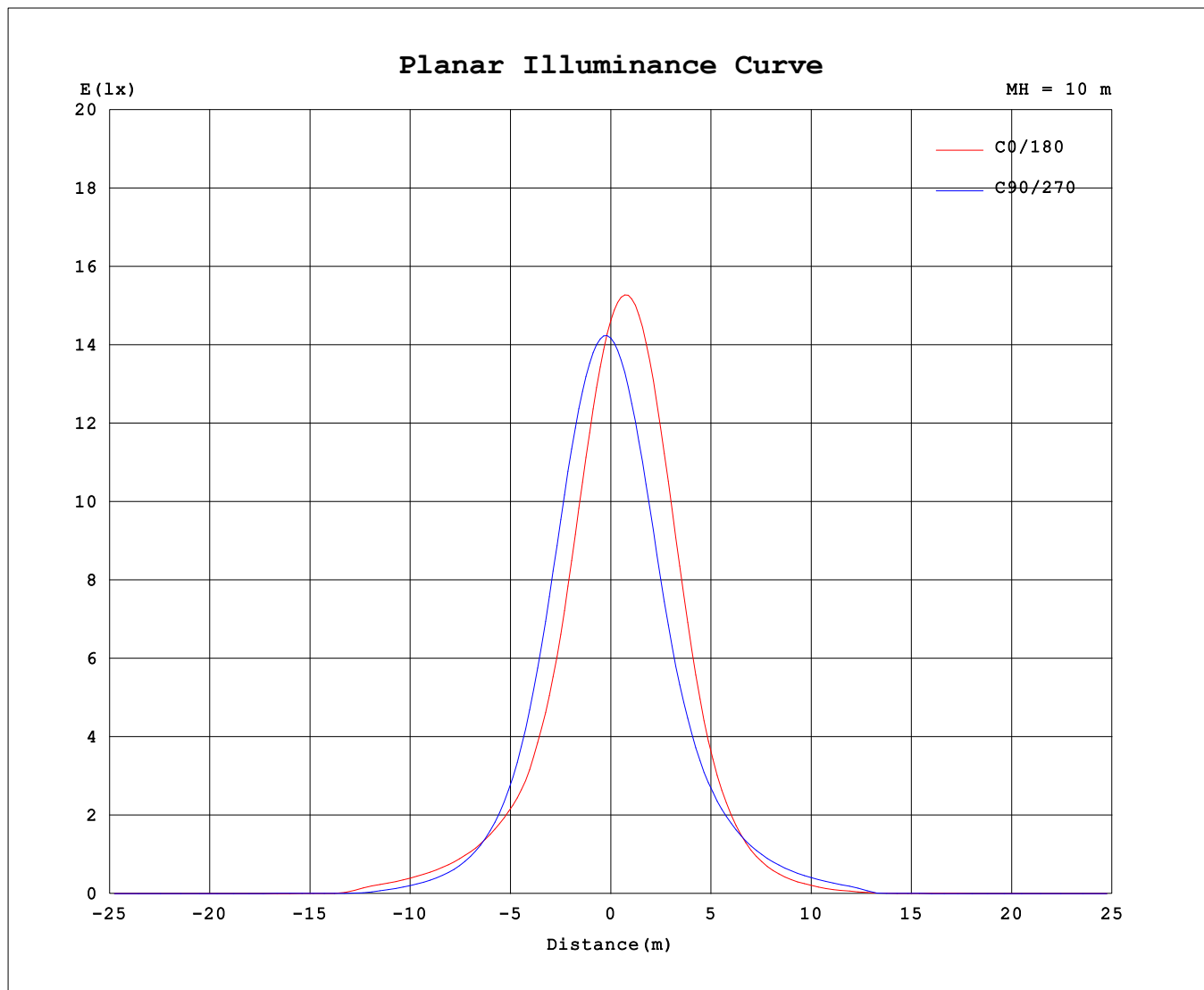
AvgL	cd/m2
L_0~180 (65) av	113
L_0~180 (75) av	65
L_0~180 (85) av	0
L_90~270 (65) av	85
L_90~270 (75) av	25
L_90~270 (85) av	2
L_45 (65) av	101
L_45 (75) av	41
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-10-08

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: M-1025

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-10-08

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: M-1025

```

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: M-1025

```

Test:U:230.33V I:0.0863A P:11.947W PF:0.6011 Freq:50.00Hz Lamp Flux:797.455x1 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: M-1025

```