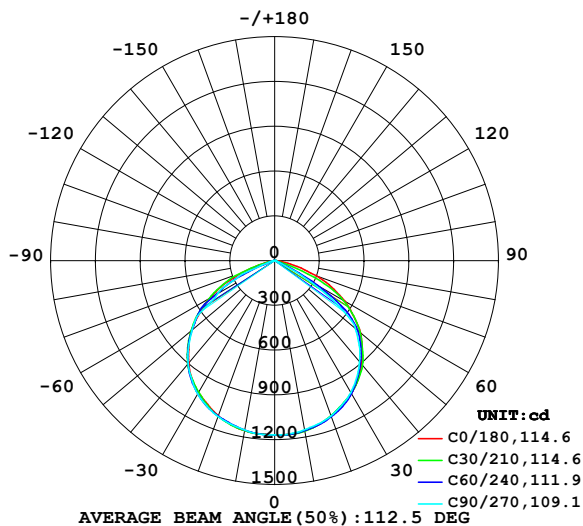


LUMINAIRE PHOTOMETRIC TEST REPORT

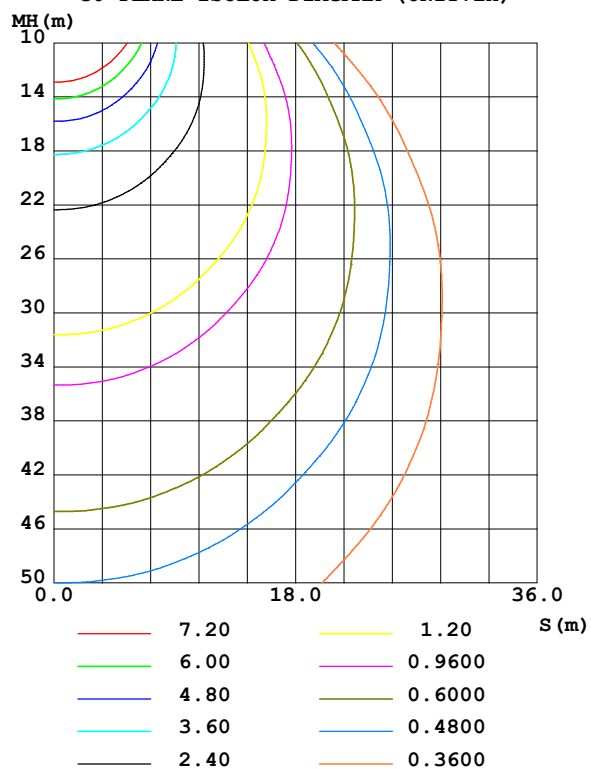
Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 108.27 lm/W
MODEL	422E-30W	I _{max} (cd)	1170	S/MH (C0/180)	1.30	
NOMINAL POWER(W)	30	LOR (%)	100.0	S/MH (C90/270)	1.31	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3055.9	η UP,DN (C0-180)	0.0,48.3	
NOMINAL FLUX(lm)	3055.88	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,51.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35	

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:2025-09-04

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-994柬埔寨

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1158	1160	1151	1150	1157	1154	1153	1158	0- 10	111.0	111.0	3.63,3.63
20	1107	1112	1107	1110	1106	1108	1111	1109	10- 20	321.0	432.0	14.1,14.1
30	1028	1028	1021	1021	1020	1025	1031	1030	20- 30	494.3	926.2	30.3,30.3
40	904.7	912.9	885.8	891.6	895.9	899.8	903.4	917.1	30- 40	606.5	1533	50.2,50.2
50	750.1	740.5	707.2	712.9	728.7	732.3	722.4	749.9	40- 50	632.5	2165	70.9,70.9
60	543.3	442.0	259.0	351.7	502.0	510.0	438.8	539.1	50- 60	535.8	2701	88.4,88.4
70	298.3	39.35	21.28	29.72	221.4	164.7	86.66	225.8	60- 70	285.3	2986	97.7,97.7
80	54.57	3.352	3.740	2.841	15.45	10.66	13.08	13.28	70- 80	63.17	3049	99.8,99.8
90	1.765	1.310	1.079	1.383	1.700	1.382	0.9513	1.383	80- 90	6.399	3056	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): 1851.9 lm

%lum = 60.6%

%lamp = 60.6%

Conical surface Flux(130deg): 2878.7 lm

%lum = 94.2%

%lamp = 94.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2025-09-04

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-994柬埔寨

LUMINANCE LIMITATION CURVES

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz

Lamp Flux:3055.88x1 lm

NAME:

TYPE:

WEIGHT:

SPEC.: 6500K

DIM.:

SERIAL No.:

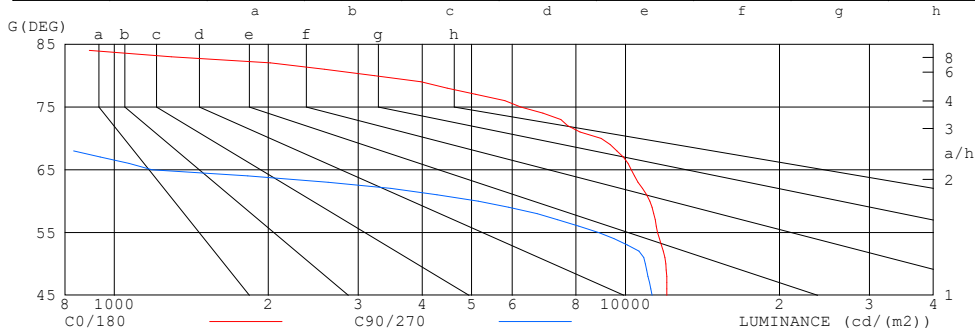
MFR.: EVERFINE

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



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	551	352
80	3228	214
75	6243	162
70	8960	618
65	10264	1185
60	11161	5148
55	11548	8856
50	11987	10932
45	12051	11274

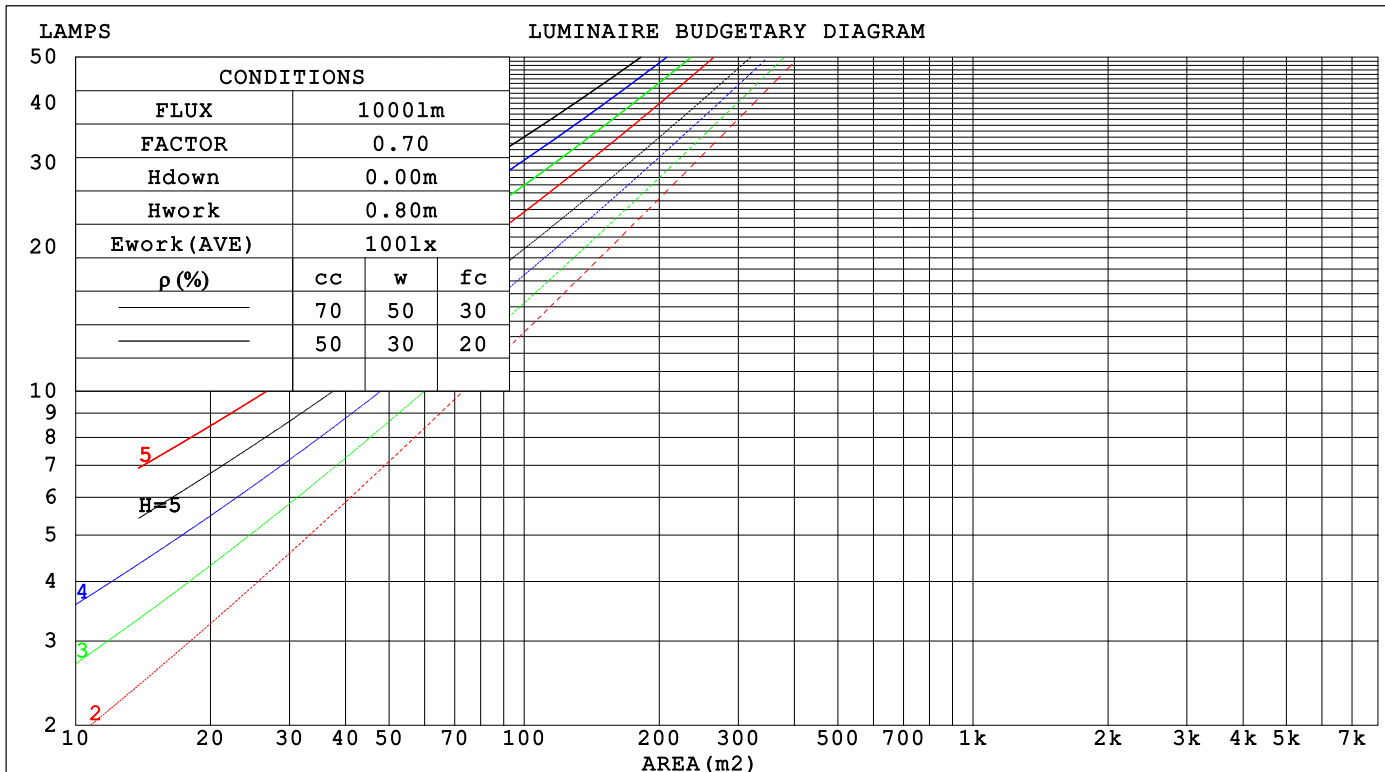
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	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			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	1.06	1.03	.99	1.04	1.01	.98	.00	.97	.95	.96	.94	.92	.93	.91	.89	.87
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.78	.83	.79	.77	.75
3.0	.83	.76	.70	.82	.75	.69	.79	.73	.68	.76	.71	.67	.74	.70	.66	.64
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.59	.68	.62	.58	.66	.61	.57	.55
5.0	.67	.58	.52	.65	.57	.51	.63	.56	.51	.61	.55	.50	.60	.54	.50	.48
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.45	.56	.49	.44	.54	.48	.44	.42
7.0	.54	.46	.40	.54	.46	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.37
8.0	.50	.41	.36	.49	.41	.36	.48	.40	.35	.46	.40	.35	.45	.39	.35	.33
9.0	.45	.38	.32	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.30
10.0	.42	.34	.29	.41	.34	.29	.40	.34	.29	.40	.33	.29	.39	.33	.29	.27



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

WEC AND CCEC

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	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	.261	.149	.047	.254	.145	.046	.241	.138	.044	.229	.132	.042	.218	.127	.041		
2.0	.257	.141	.043	.251	.138	.043	.239	.133	.041	.229	.128	.040	.219	.124	.039		
3.0	.244	.130	.039	.239	.128	.039	.229	.124	.038	.220	.120	.037	.211	.117	.036		
4.0	.230	.120	.035	.225	.118	.035	.216	.115	.034	.208	.112	.034	.200	.109	.033		
5.0	.216	.110	.032	.212	.109	.032	.204	.106	.031	.196	.104	.031	.189	.101	.030		
6.0	.202	.101	.029	.199	.100	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028		
7.0	.190	.094	.027	.187	.093	.027	.180	.091	.026	.174	.089	.026	.169	.088	.026		
8.0	.179	.087	.025	.176	.086	.024	.170	.085	.024	.165	.083	.024	.160	.082	.024		
9.0	.168	.081	.023	.166	.081	.023	.161	.079	.022	.156	.078	.022	.151	.077	.022		
10.0	.159	.076	.021	.157	.076	.021	.152	.074	.021	.148	.073	.021	.143	.072	.021		

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	.177	.157	.138	.151	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015		
2.0	.168	.132	.102	.144	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012		
3.0	.160	.114	.078	.137	.098	.068	.094	.068	.047	.054	.040	.028	.017	.013	.009		
4.0	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007		
5.0	.145	.090	.049	.125	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006		
6.0	.138	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005		
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004		
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004		
9.0	.120	.064	.026	.104	.056	.023	.072	.039	.016	.042	.023	.010	.014	.008	.003		
10.0	.115	.060	.023	.099	.052	.020	.069	.036	.014	.040	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

UGR(Unified Glare Rating) Table

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.: 6500K					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		18.0	19.5	18.3	19.6	19.8	16.0	17.5	16.3	17.7	17.9
3H		19.3	20.6	19.6	20.8	21.1	15.8	17.2	16.1	17.4	17.6
4H		19.6	20.8	19.9	21.1	21.3	15.7	17.0	16.0	17.2	17.5
6H		19.6	20.8	19.9	21.0	21.3	15.6	16.8	16.0	17.1	17.3
8H		19.6	20.7	19.9	20.9	21.2	15.6	16.7	15.9	17.0	17.3
12H		19.5	20.6	19.8	20.9	21.2	15.5	16.6	15.9	16.9	17.2
4H 2H		18.2	19.4	18.5	19.6	19.9	16.4	17.6	16.7	17.9	18.1
3H		19.4	20.5	19.8	20.8	21.1	16.2	17.3	16.6	17.6	17.9
4H		19.7	20.7	20.1	21.0	21.4	16.1	17.1	16.5	17.4	17.7
6H		19.8	20.6	20.2	21.0	21.3	16.0	16.9	16.4	17.2	17.6
8H		19.7	20.5	20.1	20.9	21.3	16.0	16.8	16.4	17.1	17.5
12H		19.7	20.4	20.1	20.8	21.2	15.9	16.7	16.4	17.0	17.4
8H 4H		19.6	20.4	20.0	20.8	21.1	16.1	16.9	16.5	17.2	17.6
6H		19.6	20.3	20.1	20.7	21.1	16.0	16.6	16.4	17.0	17.4
8H		19.6	20.2	20.1	20.6	21.0	15.9	16.5	16.4	16.9	17.4
12H		19.6	20.1	20.0	20.5	21.0	15.9	16.4	16.4	16.8	17.3
12H 4H		19.6	20.3	20.0	20.7	21.1	16.0	16.7	16.4	17.1	17.5
6H		19.6	20.2	20.1	20.6	21.0	15.9	16.5	16.4	16.9	17.4
8H		19.6	20.1	20.0	20.5	21.0	15.9	16.4	16.4	16.8	17.3
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.3 / - 0.4					+ 0.6 / - 0.9				
1.5H		+ 0.6 / - 0.8					+ 0.8 / - 1.6				
2.0H		+ 0.5 / - 0.5					+ 1.9 / - 5.2				

CIE Pub.117, 3056 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

UTILIZATION FACTORS TABLE

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

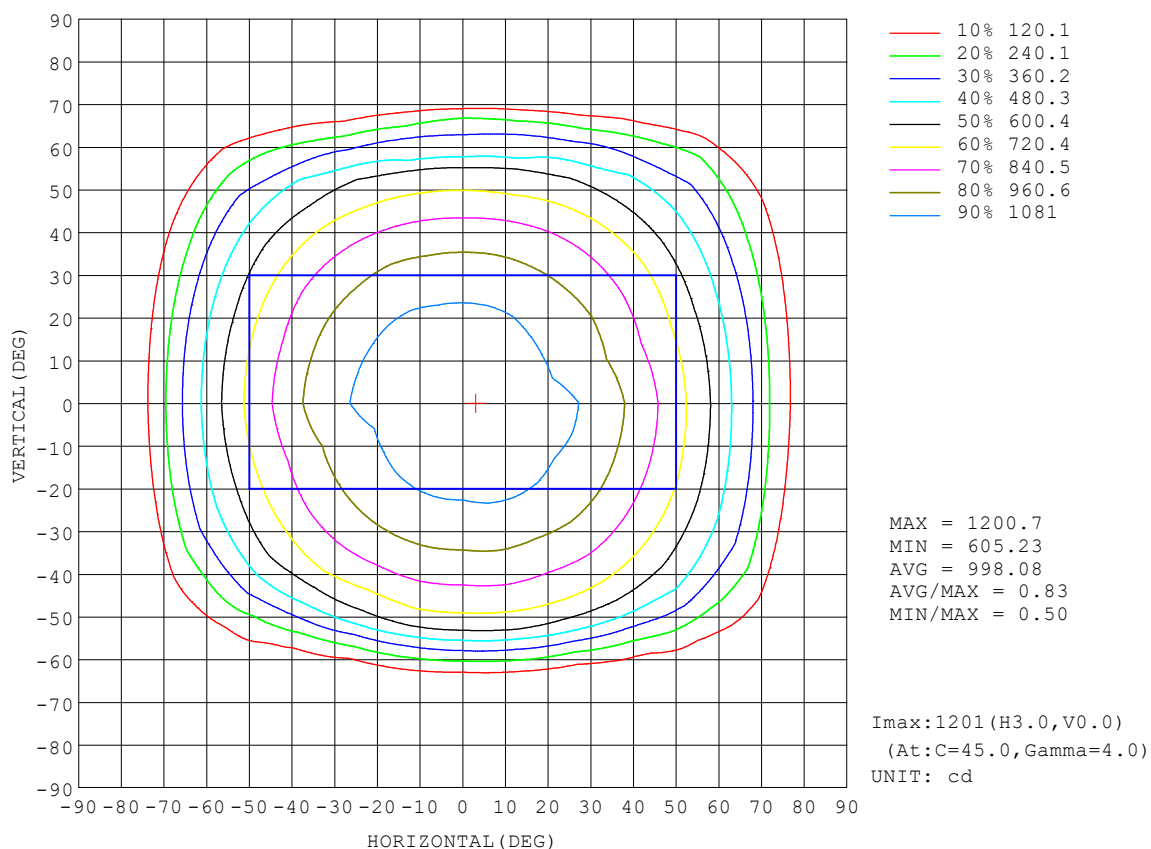
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	36
0.80	71	60	53	70	59	53	68	59	52	46
1.00	80	70	63	79	69	63	76	70	62	55
1.25	87	78	71	86	77	71	83	75	70	63
1.50	92	83	77	90	82	76	87	81	75	68
2.00	98	91	85	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	104	100	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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: 2025-09-04

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-994 柬埔寨

ISOCANDELA DIAGRAM

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

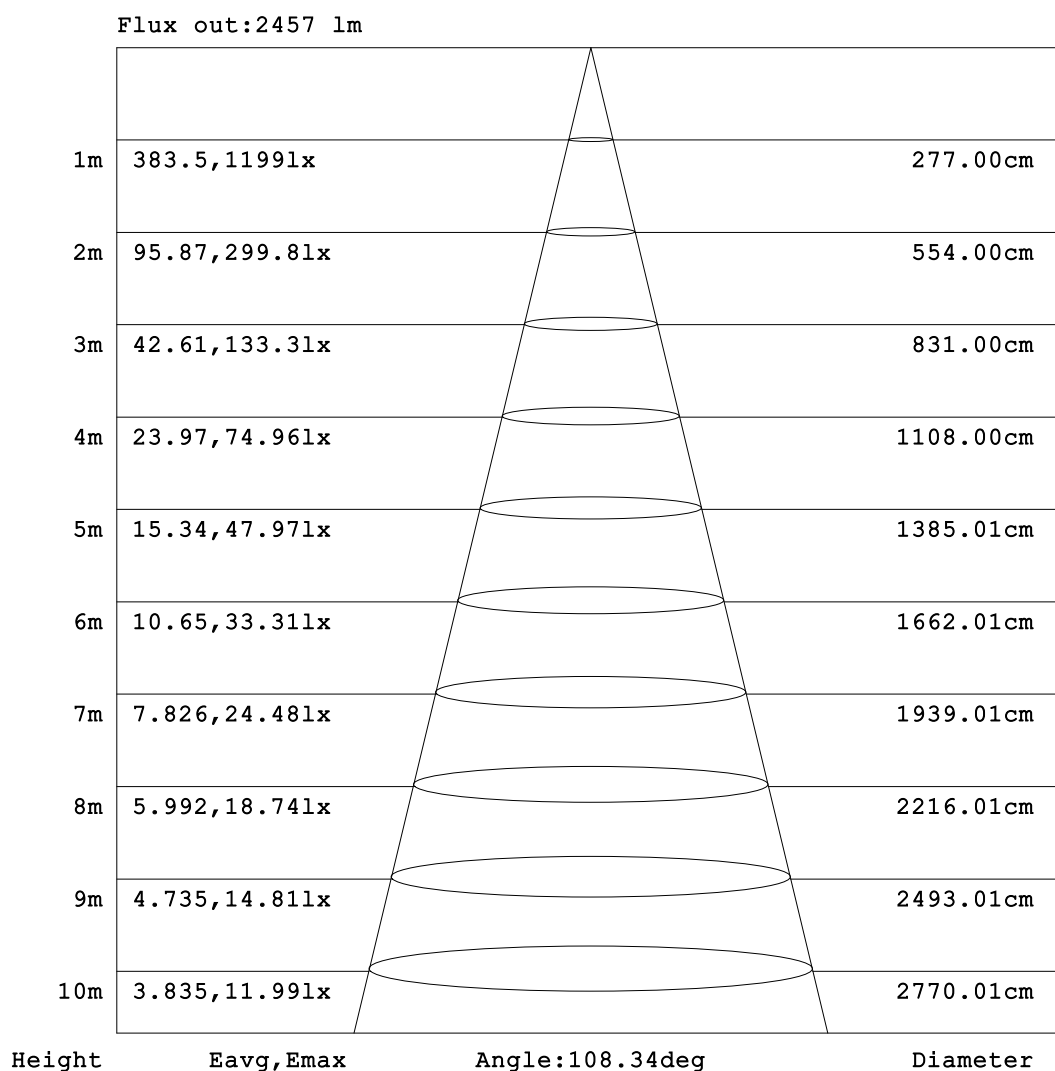


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

AAI Figure

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



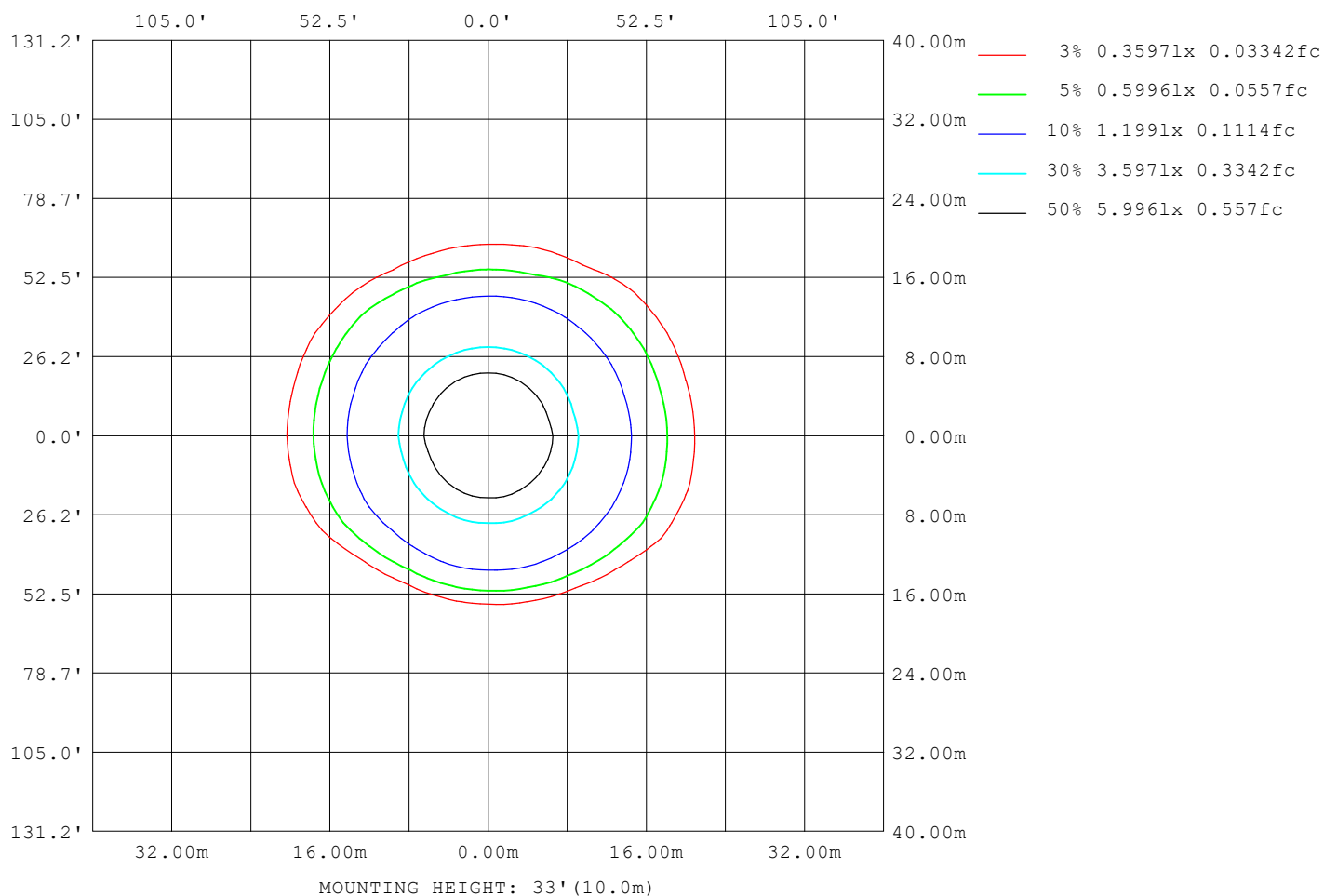
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

ISOLUX DIAGRAM

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	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:2025-09-04

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-994柬埔寨

LED Avg.L Report

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

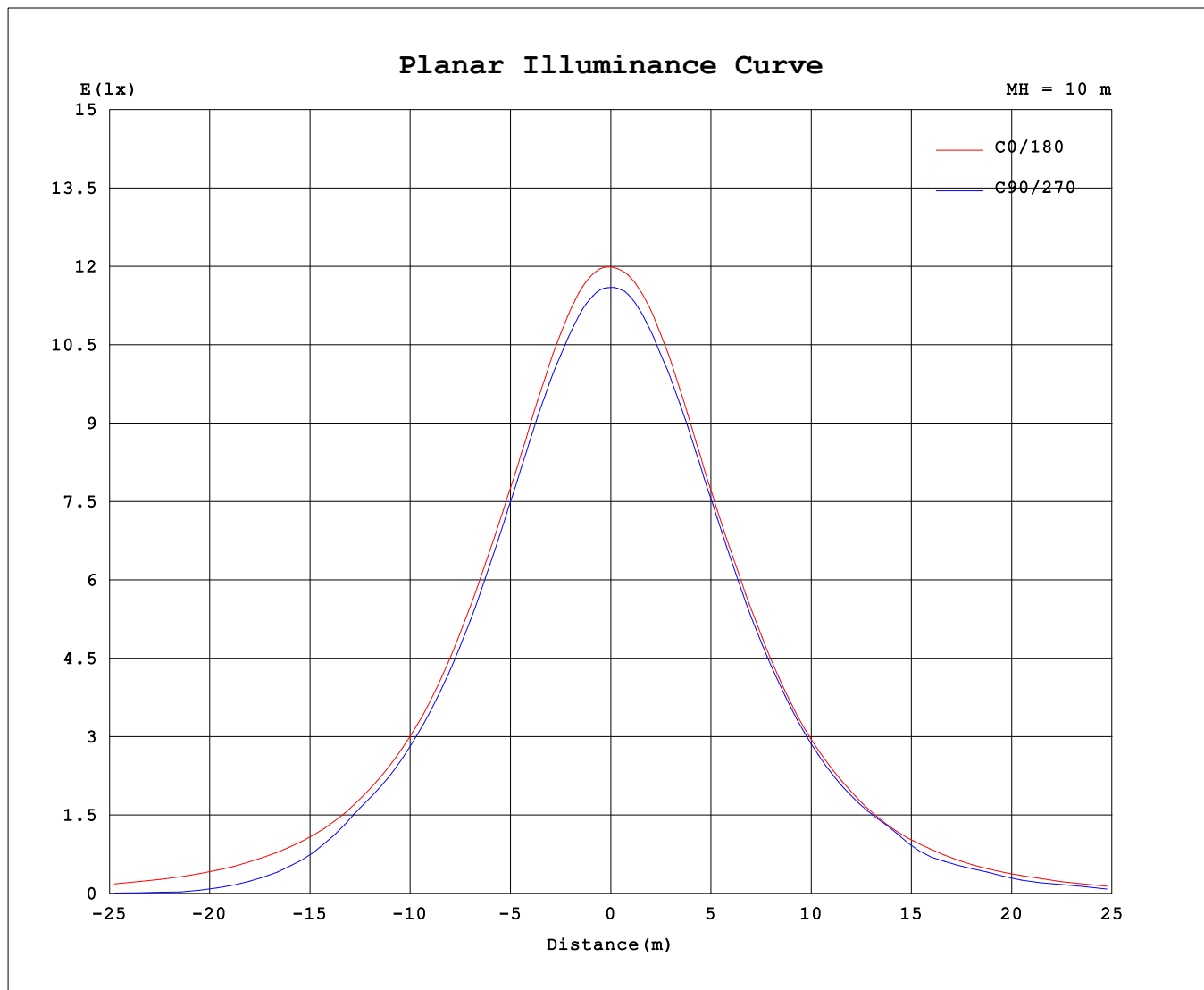
AvgL	cd/m2
L_0~180 (65) av	9424
L_0~180 (75) av	4705
L_0~180 (85) av	421
L_90~270 (65) av	3916
L_90~270 (75) av	647
L_90~270 (85) av	694
L_45 (65) av	6345
L_45 (75) av	915
L_45 (85) av	737

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-09-04

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-994柬埔寨

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-09-04

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-994 柬埔寨

Test:U:230.31V I:0.2101A P:28.224W PF:0.5832 Freq:50.00Hz Lamp Flux:3055.88x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: 6500K	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-994柬埔寨

```

```

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-994柬埔寨

```