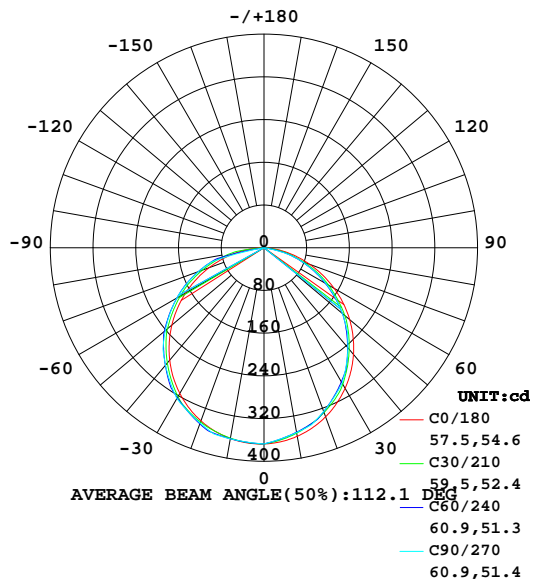


## LUMINAIRE PHOTOMETRIC TEST REPORT

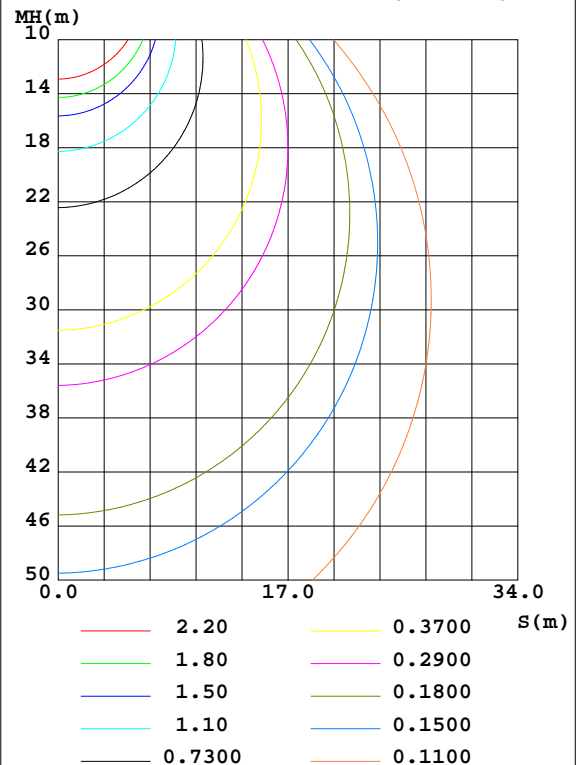
Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 31.23 lm/W			
MODEL	33.1212	I <sub>max</sub> (cd)	367.6	S/MH(C0/180)	1.27
NOMINAL POWER(W)	32.9712	LOR(%)	114.3	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1029.7	η UP,DN(C0-180)	0.0,52.9
NOMINAL FLUX(lm)	900.755	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,61.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	114.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
5	364.7	360.1	359.4	361.6	366.8	365.8	365.4	364.4	0- 5	8.723	8.723	0.85,0.97
10	358.6	351.2	351.3	354.2	362.7	362.6	363.3	359.7	5- 10	25.78	34.50	3.35,3.83
15	349.4	340.8	343.3	345.3	355.5	357.8	361.2	353.4	10- 15	41.98	76.48	7.43,8.49
20	337.0	329.1	326.4	334.9	345.1	351.5	349.6	345.8	15- 20	56.80	133.3	12.9,14.8
25	321.8	310.7	309.6	317.8	331.5	338.1	337.9	330.9	20- 25	69.50	202.8	19.7,22.5
30	303.9	290.5	292.7	298.6	315.2	322.3	326.2	313.9	25- 30	79.92	282.7	27.5,31.4
35	283.4	269.6	268.6	278.6	296.2	305.5	306.6	296.2	30- 35	87.72	370.4	36,41.1
40	260.8	247.3	244.5	257.2	274.7	287.1	287.1	276.9	35- 40	92.37	462.8	44.9,51.4
45	236.0	219.9	220.4	230.6	251.0	263.2	267.5	252.0	40- 45	94.03	556.8	54.1,61.8
50	209.4	192.6	191.6	203.9	225.2	239.1	241.3	227.0	45- 50	92.66	649.5	63.1,72.1
55	181.3	165.3	162.8	177.1	198.0	214.9	215.0	201.8	50- 55	88.00	737.5	71.6,81.9
60	151.5	134.9	134.0	146.9	169.4	185.6	188.8	172.0	55- 60	80.59	818.1	79.4,90.8
65	121.1	105.1	104.8	117.3	139.8	157.0	159.7	143.3	60- 65	70.75	888.8	86.3,98.7
70	91.13	76.41	75.57	88.34	109.5	128.1	130.5	114.7	65- 70	58.85	947.7	92,105
75	62.48	48.88	46.36	59.79	79.40	98.65	101.4	85.51	70- 75	45.53	993.2	96.5,110
80	35.59	20.68	0	28.62	50.62	59.17	0	49.13	75- 80	27.94	1021	99.2,113
85	12.35	0	0	0	24.20	0	0	0	80- 85	7.811	1029	99.9,114
90	1.091	0	0	0	3.322	0	0	0	85- 90	0.7677	1030	100,114
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

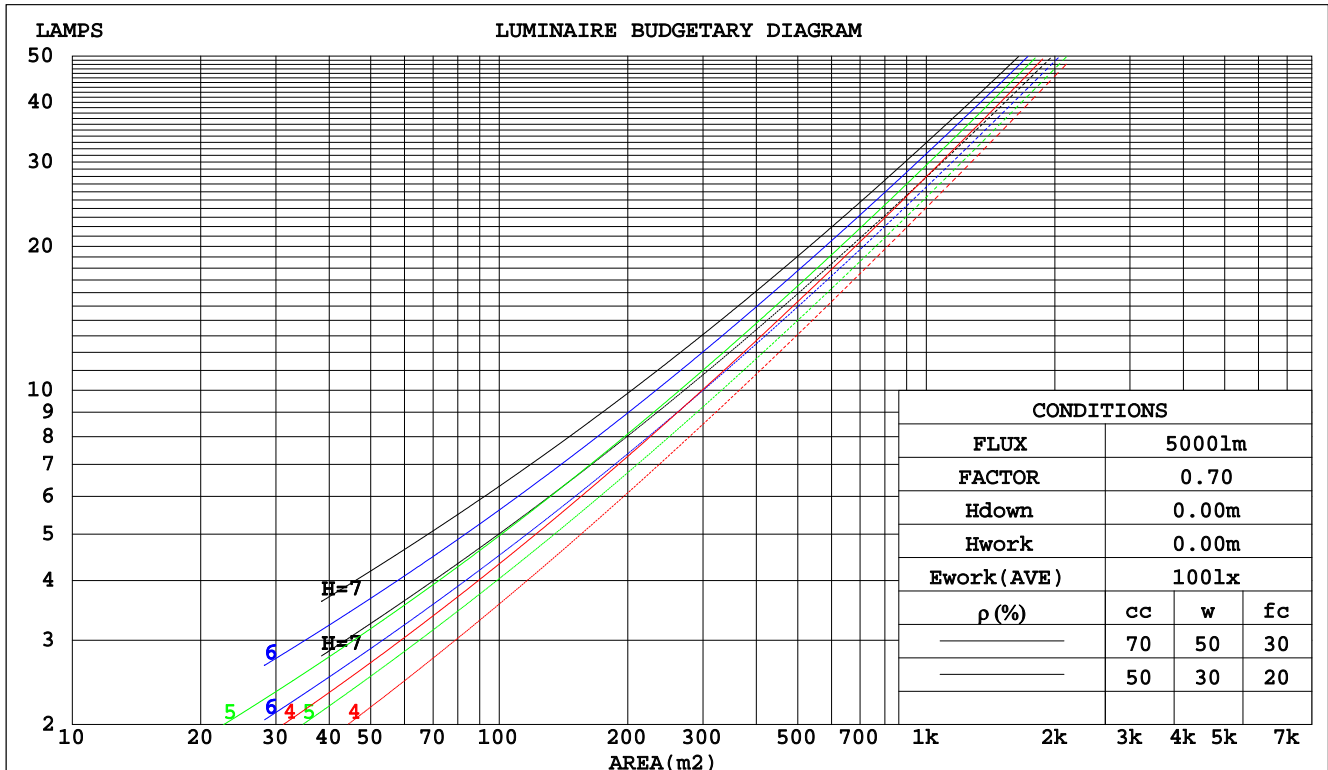
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:04 November 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
 Humidity:65.0%  
 Test Distance:5.640m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
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	1.36	1.36	1.36	1.33	1.33	1.33	1.27	1.27	1.27	1.22	1.22	1.22	1.17	1.17	1.17	1.14														
1.0	1.19	1.15	1.10	1.17	1.12	1.08	1.12	1.08	1.05	1.07	1.04	1.02	1.03	1.01	.99	.96														
2.0	1.04	.96	.90	1.02	.95	.89	.98	.92	.87	.94	.89	.85	.90	.86	.83	.80														
3.0	.91	.82	.74	.89	.81	.74	.86	.79	.72	.83	.76	.71	.80	.75	.70	.67														
4.0	.81	.71	.63	.79	.70	.63	.76	.68	.62	.74	.67	.61	.71	.65	.60	.57														
5.0	.72	.62	.54	.71	.61	.54	.68	.60	.53	.66	.59	.53	.64	.57	.52	.50														
6.0	.65	.55	.47	.64	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.43														
7.0	.59	.49	.42	.58	.48	.41	.56	.47	.41	.54	.47	.41	.53	.46	.41	.38														
8.0	.54	.44	.37	.53	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.36	.34														
9.0	.49	.40	.33	.48	.39	.33	.47	.39	.33	.46	.38	.33	.45	.38	.33	.31														
10.0	.45	.36	.30	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.28														



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.343	.195	.062	.335	.191	.061	.320	.184	.059	.306	.177	.057	.293	.170	.055		
2.0	.328	.180	.055	.321	.177	.055	.308	.171	.053	.296	.166	.052	.284	.161	.051		
3.0	.306	.163	.049	.300	.160	.048	.288	.156	.047	.277	.152	.047	.267	.148	.046		
4.0	.283	.147	.043	.278	.145	.043	.267	.142	.042	.257	.138	.042	.248	.135	.041		
5.0	.262	.134	.039	.257	.132	.038	.248	.129	.038	.239	.126	.038	.231	.124	.037		
6.0	.243	.122	.035	.239	.121	.035	.231	.118	.034	.223	.116	.034	.216	.114	.034		
7.0	.227	.112	.032	.223	.111	.032	.215	.109	.031	.208	.107	.031	.202	.105	.031		
8.0	.212	.103	.029	.208	.103	.029	.202	.101	.029	.195	.099	.029	.190	.097	.028		
9.0	.199	.096	.027	.195	.095	.027	.189	.094	.027	.184	.092	.026	.179	.091	.026		
10.0	.187	.090	.025	.184	.089	.025	.179	.087	.025	.174	.086	.024	.169	.085	.024		

ρcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.218	.218	.218	.186	.186	.186	.127	.127	.127	.073	.073	.073	.023	.023	.023		
1.0	.205	.179	.154	.176	.153	.133	.120	.105	.092	.069	.061	.053	.022	.020	.017		
2.0	.196	.151	.113	.168	.130	.097	.115	.090	.068	.066	.052	.040	.021	.017	.013		
3.0	.187	.131	.085	.161	.113	.074	.110	.078	.052	.064	.046	.031	.020	.015	.010		
4.0	.179	.115	.067	.153	.100	.058	.106	.069	.041	.061	.041	.024	.020	.013	.008		
5.0	.170	.104	.054	.146	.090	.047	.101	.063	.033	.058	.037	.020	.019	.012	.006		
6.0	.162	.094	.045	.140	.081	.039	.096	.057	.028	.056	.033	.016	.018	.011	.005		
7.0	.155	.086	.038	.133	.075	.033	.092	.052	.023	.053	.031	.014	.017	.010	.005		
8.0	.147	.079	.033	.127	.069	.029	.088	.048	.020	.051	.029	.012	.017	.009	.004		
9.0	.140	.074	.029	.121	.064	.025	.084	.045	.018	.049	.027	.011	.016	.009	.004		
10.0	.134	.069	.026	.115	.060	.022	.080	.042	.016	.047	.025	.009	.015	.008	.003		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:23.99V I:1.374A P:32.97W PF:1.000    Lamp Flux:900.755x1 lm										
NAME: LP-24-24x24-HP						TYPE:Basic LightPanel			WEIGHT:	
SPEC.:FLS-1W8-3000K						DIM.: 24*24			SERIAL No.:01	
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	9.0	10.6	9.3	10.8	11.0	8.6	10.1	8.9	10.3	10.5
3H	10.5	11.9	10.8	12.1	12.3	9.8	11.2	10.1	11.5	11.7
4H	11.0	12.3	11.3	12.6	12.8	10.2	11.6	10.5	11.8	12.1
6H	11.4	12.6	11.7	12.9	13.2	10.2	11.5	10.6	11.8	12.0
8H	11.4	12.7	11.8	12.9	13.2	10.2	11.4	10.5	11.7	12.0
12H	11.5	12.6	11.8	12.9	13.2	10.1	11.3	10.5	11.6	11.9
4H 2H	9.5	10.8	9.8	11.1	11.3	9.1	10.5	9.5	10.7	11.0
3H	11.1	12.2	11.4	12.5	12.8	10.5	11.7	10.9	12.0	12.3
4H	11.7	12.8	12.1	13.1	13.4	11.0	12.1	11.4	12.4	12.7
6H	12.2	13.1	12.6	13.5	13.8	11.1	12.0	11.5	12.4	12.7
8H	12.3	13.2	12.7	13.5	13.9	11.0	11.9	11.4	12.3	12.6
12H	12.4	13.2	12.8	13.5	14.0	11.0	11.8	11.4	12.2	12.6
8H 4H	11.8	12.7	12.3	13.1	13.5	11.2	12.1	11.6	12.4	12.8
6H	12.4	13.1	12.8	13.5	13.9	11.3	12.0	11.7	12.4	12.8
8H	12.6	13.2	13.0	13.6	14.1	11.2	11.9	11.7	12.3	12.8
12H	12.7	13.2	13.1	13.7	14.1	11.2	11.8	11.7	12.2	12.7
12H 4H	11.8	12.6	12.2	13.0	13.4	11.2	12.0	11.6	12.4	12.8
6H	12.4	13.0	12.8	13.4	13.9	11.3	11.9	11.7	12.3	12.8
8H	12.6	13.1	13.0	13.5	14.0	11.2	11.8	11.7	12.2	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.3				

CIE Pub.117 Corrected 900.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.4)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
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) x RCR = 5									
k = 0.60	66	53	45	65	52	45	64	52	44	37
0.80	77	64	56	76	64	56	74	63	55	47
1.00	87	75	66	86	74	66	83	75	65	57
1.25	95	83	75	94	83	75	91	81	74	66
1.50	101	90	82	99	89	81	96	87	80	72
2.00	109	99	92	107	98	91	103	95	89	81
2.50	113	105	98	111	103	97	107	100	95	85
3.00	117	110	103	115	108	102	110	105	100	90
4.00	122	116	110	119	114	109	114	110	106	96
5.00	125	119	115	122	117	113	117	113	110	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

556.83 lm

%lum = 54.1%

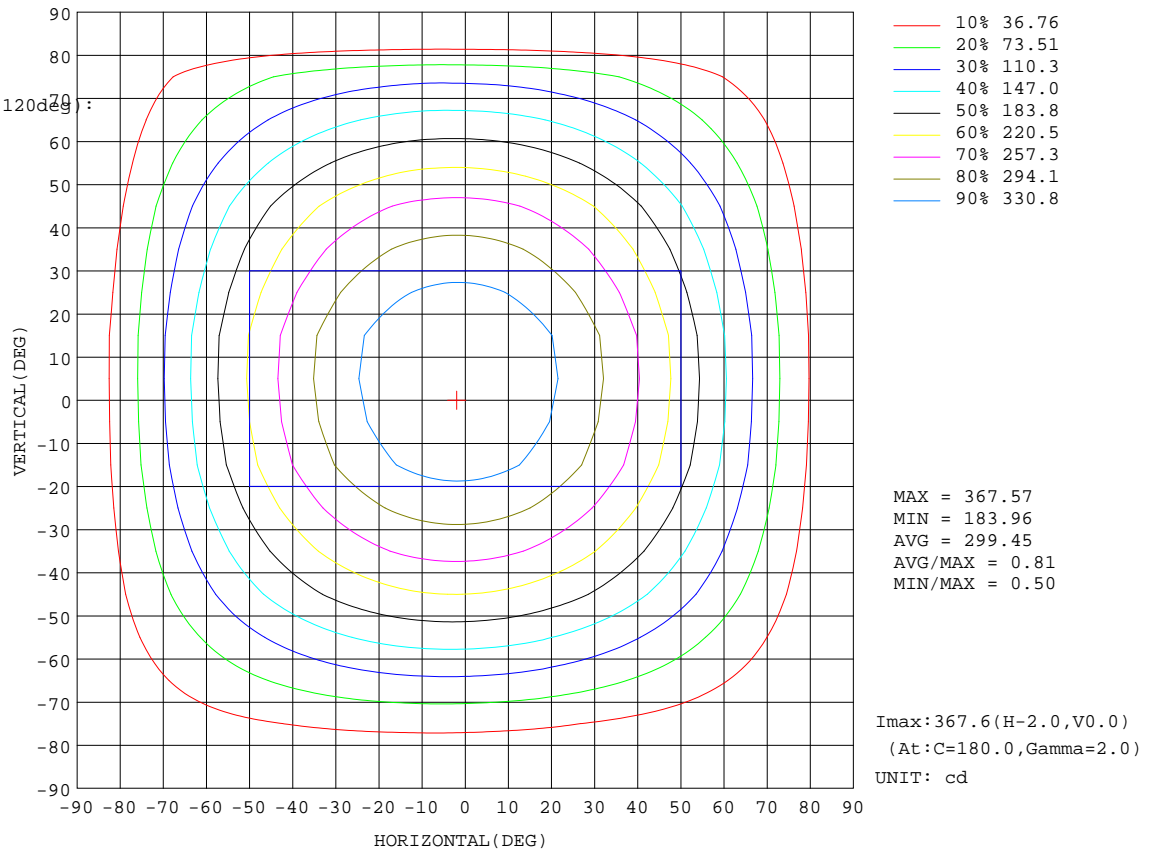
%lamp = 61.8%

Conical surface Flux(120deg):

818.08 lm

%lum = 79.4%

%lamp = 90.8%

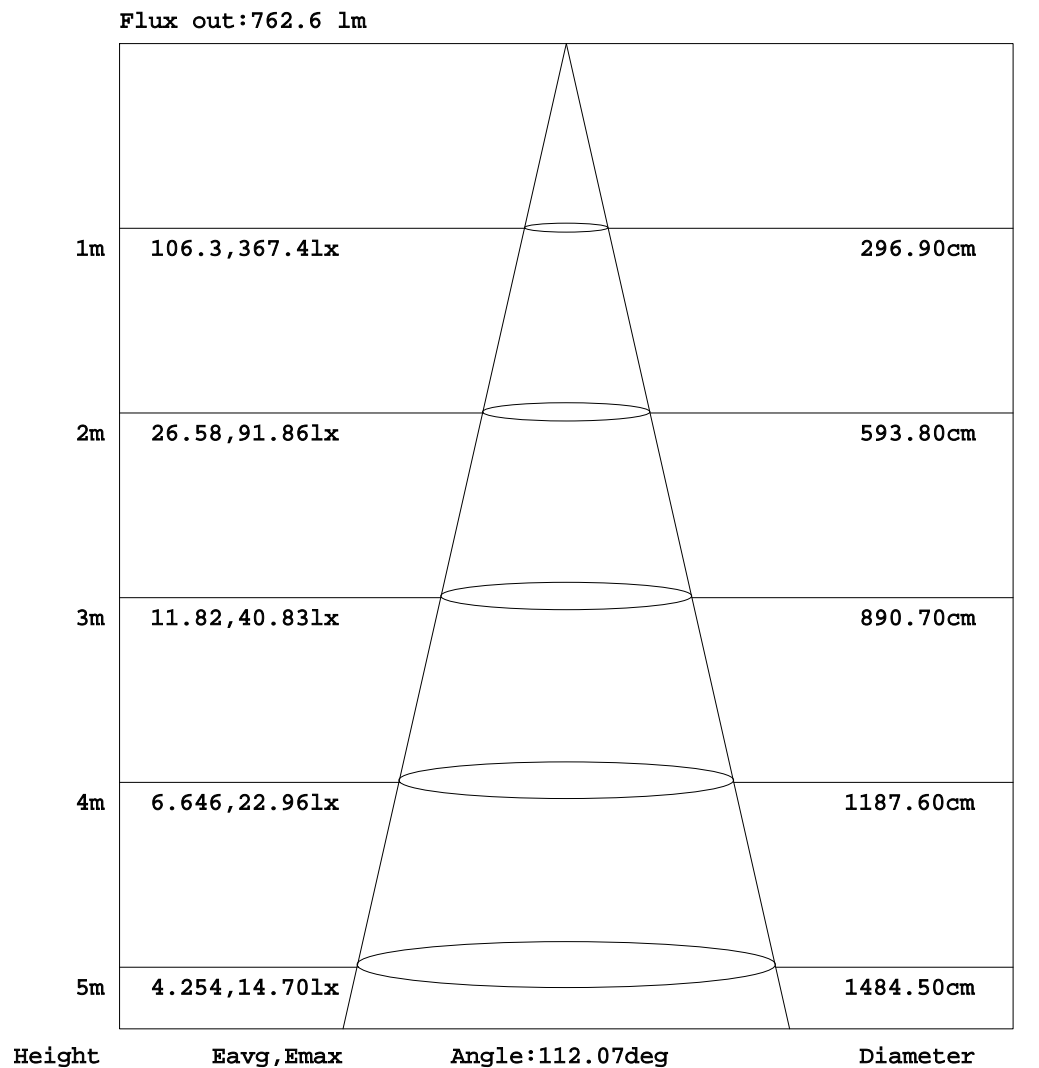


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:



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

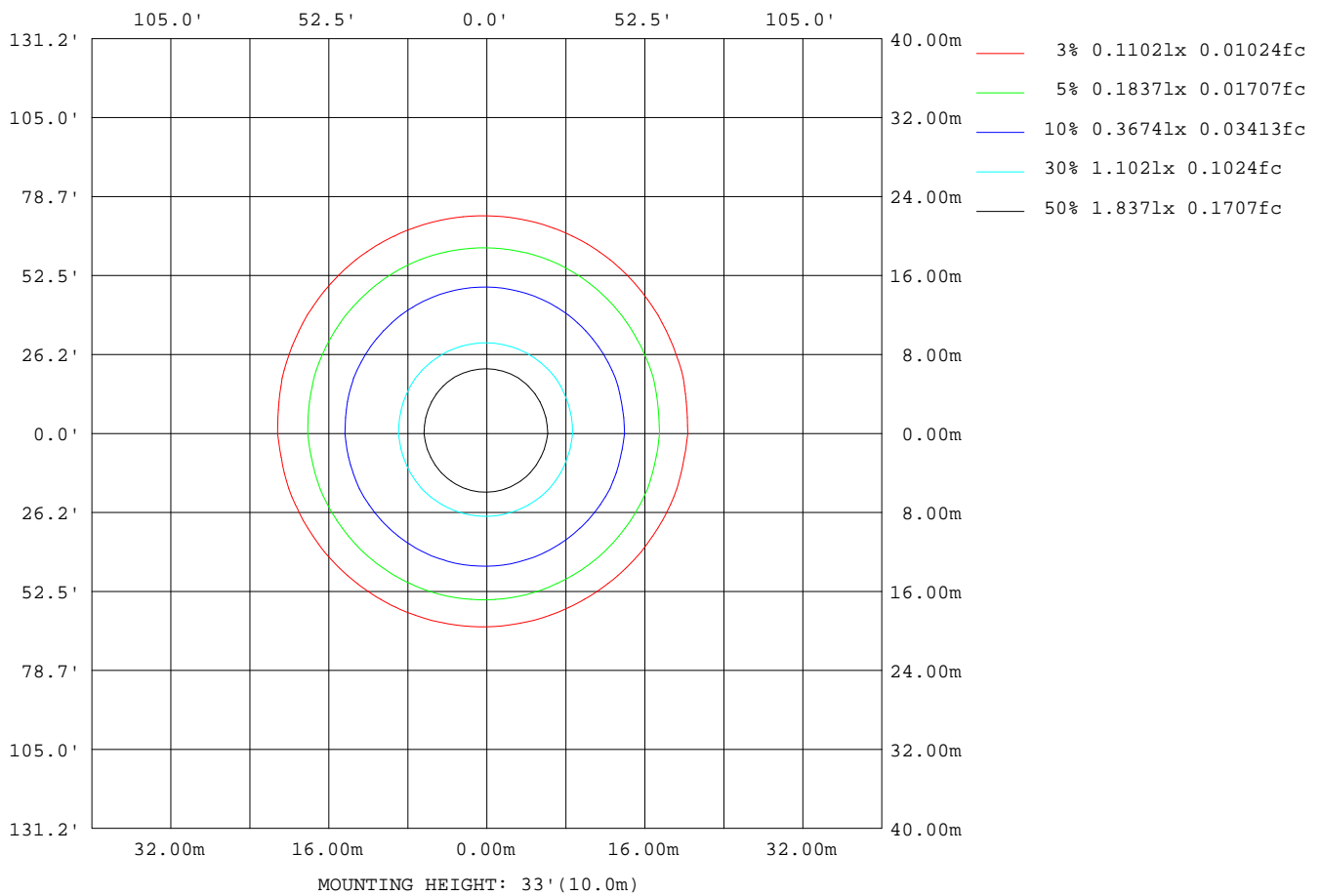
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:



### ISOLUX DIAGRAM

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:04 November 2024

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
 Humidity:65.0%  
 Test Distance:5.640m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:23.99V I:1.374A P:32.97W PF:1.000 Lamp Flux:900.755x1 lm		
NAME: LP-24-24x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

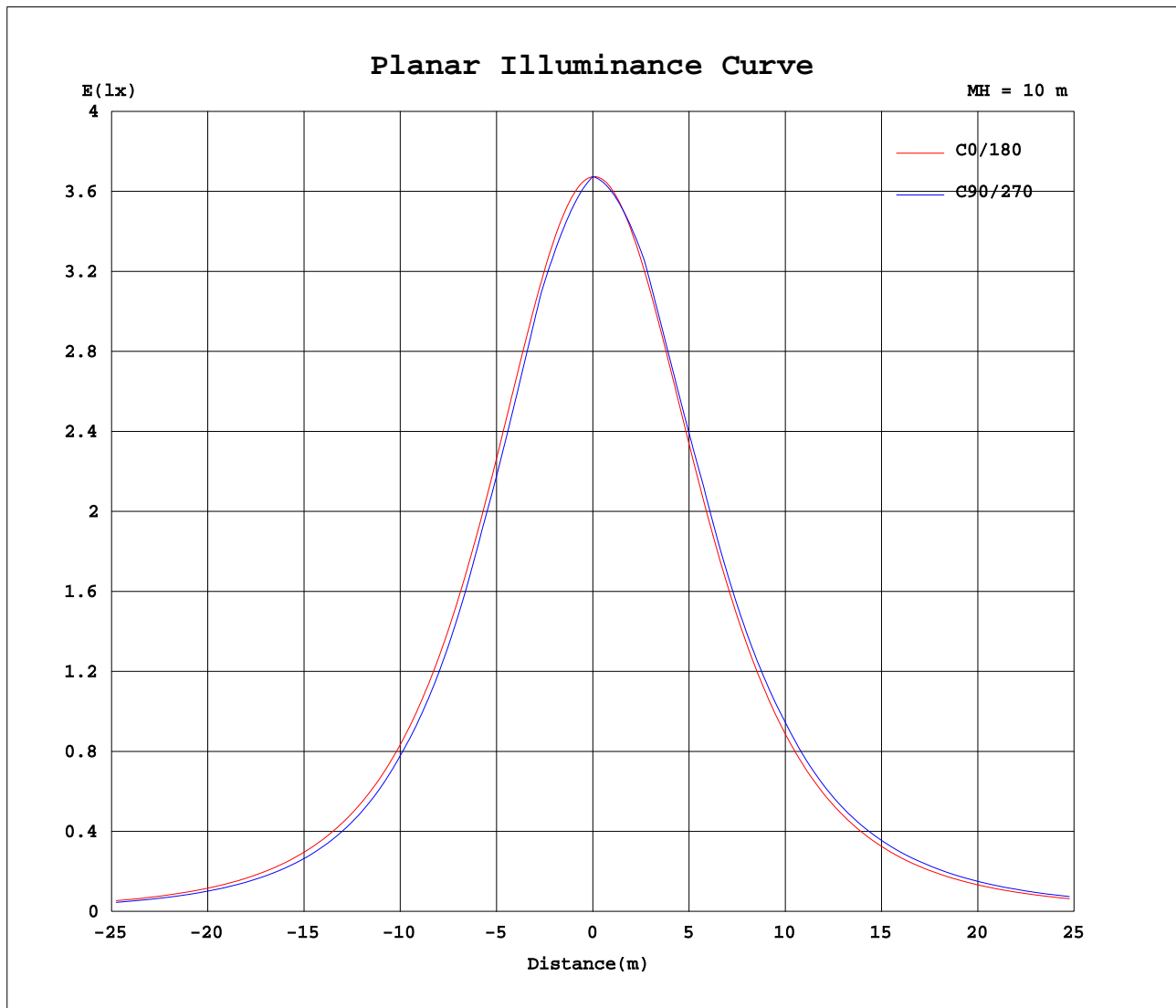
AvgL	cd/m2
L_0~180(65)av	370
L_0~180(75)av	328
L_0~180(85)av	251
L_90~270(65)av	375
L_90~270(75)av	342
L_90~270(85)av	0
L_45(65)av	370
L_45(75)av	339
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:04 November 2024

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity:65.0%  
Test Distance:5.640m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 04 November 2024

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.293  
Humidity: 65.0%  
Test Distance: 5.640m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```