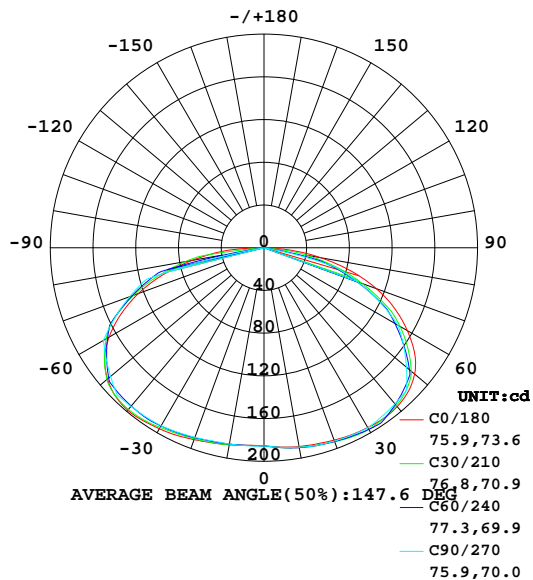


## LUMINAIRE PHOTOMETRIC TEST REPORT

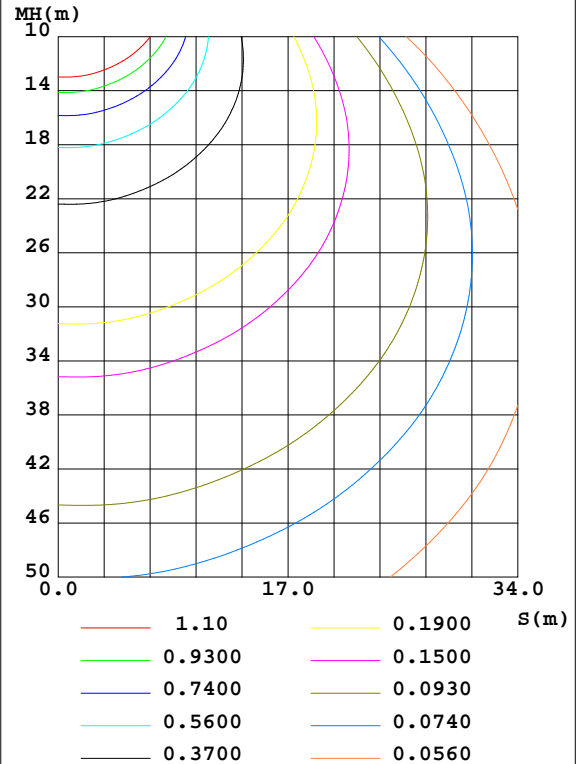
Test:U:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 27.00 lm/W			
MODEL	31.0976	I <sub>max</sub> (cd)	198.9	S/MH(C0/180)	1.63
NOMINAL POWER(W)	30.502	LOR(%)	92.0	S/MH(C90/270)	1.60
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	823.69	η UP,DN(C0-180)	0.0,44.1
NOMINAL FLUX(lm)	895.214	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	24	η down(%)	92.0	CIBSE SHR MAX	1.75

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:31 October 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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	187.3	187.9	187.5	186.8	185.7	185.8	186.0	187.0	0- 5	4.454	4.454	0.54,0.50
10	189.0	190.0	189.6	188.9	187.3	187.0	186.6	188.5	5- 10	13.43	17.88	2.17,2
15	190.2	191.4	191.7	190.5	189.1	188.4	187.2	189.6	10- 15	22.45	40.33	4.9,4.5
20	191.7	192.8	192.7	191.5	191.2	189.6	189.0	190.6	15- 20	31.42	71.74	8.71,8.01
25	193.3	194.9	193.7	193.1	193.7	191.3	190.7	192.5	20- 25	40.34	112.1	13.6,12.5
30	194.4	196.0	194.7	195.2	195.8	193.3	192.5	194.5	25- 30	49.14	161.2	19.6,18
35	195.1	195.1	192.7	196.3	197.6	195.2	193.2	195.8	30- 35	57.52	218.7	26.6,24.4
40	194.1	191.7	190.8	194.5	198.6	196.3	193.9	195.8	35- 40	65.04	283.8	34.5,31.7
45	190.8	184.9	188.8	188.0	196.6	193.7	194.5	192.1	40- 45	71.42	355.2	43.1,39.7
50	184.1	176.5	174.1	180.8	191.4	189.4	187.5	186.8	45- 50	75.98	431.2	52.3,48.2
55	172.1	165.0	159.5	171.1	182.1	183.2	180.5	179.6	50- 55	77.76	508.9	61.8,56.9
60	154.9	142.6	144.8	150.6	167.5	168.4	173.5	163.0	55- 60	76.84	585.8	71.1,65.4
65	135.2	119.0	119.0	128.5	148.0	151.7	153.6	144.5	60- 65	72.60	658.4	79.9,73.5
70	111.8	93.30	93.19	103.1	125.0	130.8	133.7	123.1	65- 70	64.38	722.8	87.7,80.7
75	84.39	65.53	67.40	75.51	98.12	105.0	113.8	98.04	70- 75	53.38	776.1	94.2,86.7
80	53.98	33.47	0	41.73	68.31	66.08	0	61.04	75- 80	35.26	811.4	98.5,90.6
85	23.32	0	0	0	39.70	0	0	0	80- 85	11.03	822.4	99.8,91.9
90	0.6060	0	0	0	2.723	0	0	0	85- 90	1.255	823.7	100,92
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		

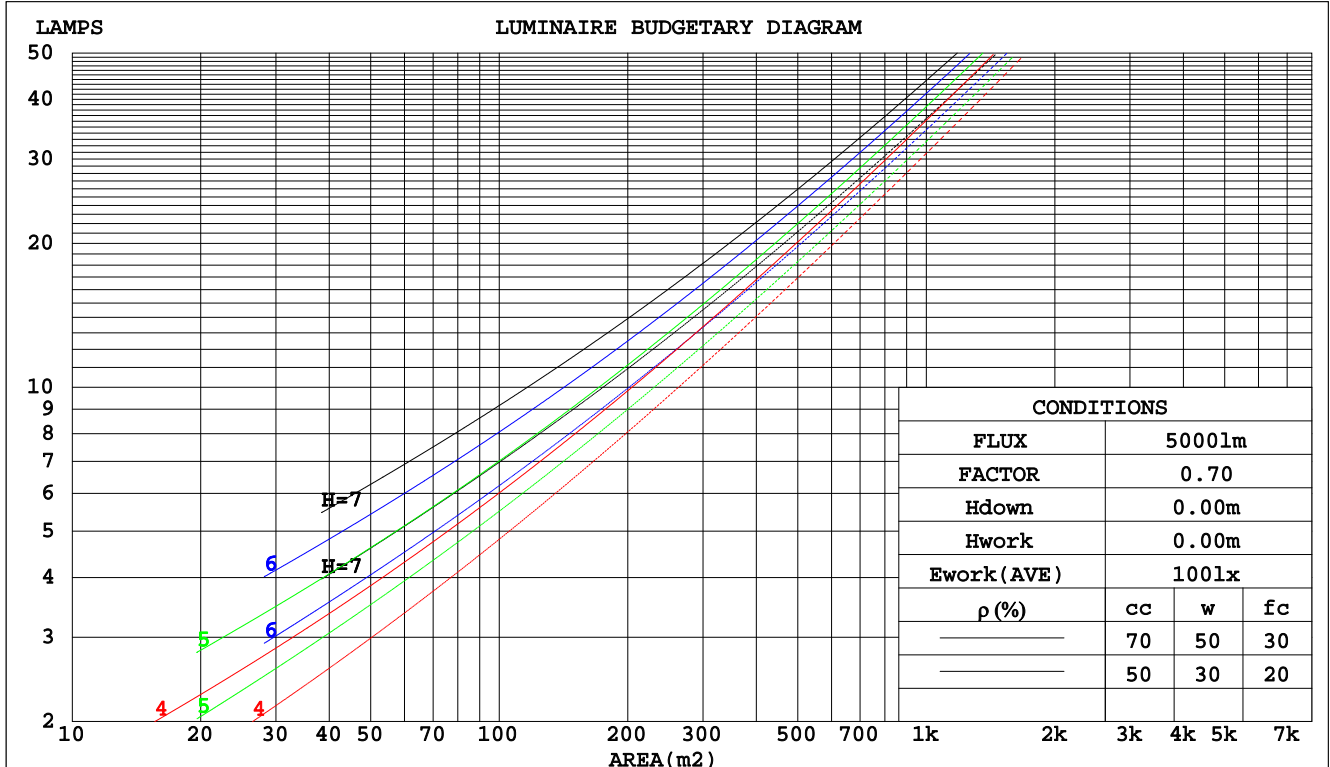
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:31 October 2024

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	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															



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:31 October 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:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.315	.179	.057	.308	.176	.056	.296	.170	.054	.285	.164	.053	.274	.159	.051		
2.0	.297	.163	.050	.291	.161	.049	.280	.156	.048	.270	.152	.047	.261	.148	.047		
3.0	.273	.146	.044	.268	.144	.043	.258	.140	.043	.249	.137	.042	.241	.133	.041		
4.0	.250	.130	.038	.246	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.211	.111	.033	.204	.109	.033		
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029		
7.0	.196	.097	.027	.192	.096	.027	.186	.094	.027	.180	.093	.027	.175	.091	.027		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.078	.022		
10.0	.159	.076	.021	.156	.076	.021	.152	.074	.021	.148	.073	.021	.144	.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	.175	.175	.175	.150	.150	.150	.102	.102	.102	.059	.059	.059	.019	.019	.019	
1.0	.168	.143	.121	.144	.123	.104	.098	.085	.072	.057	.049	.042	.018	.016	.014	
2.0	.162	.121	.087	.139	.104	.075	.095	.072	.052	.055	.042	.031	.018	.014	.010	
3.0	.156	.105	.065	.134	.091	.056	.092	.063	.039	.053	.037	.023	.017	.012	.008	
4.0	.150	.093	.051	.128	.081	.044	.088	.056	.031	.051	.033	.018	.016	.011	.006	
5.0	.143	.084	.041	.123	.073	.035	.084	.051	.025	.049	.030	.015	.016	.010	.005	
6.0	.136	.077	.034	.117	.066	.029	.081	.046	.021	.047	.027	.012	.015	.009	.004	
7.0	.129	.070	.029	.111	.061	.025	.077	.043	.018	.045	.025	.011	.014	.008	.004	
8.0	.123	.065	.025	.106	.056	.022	.073	.040	.015	.043	.023	.009	.014	.008	.003	
9.0	.117	.060	.022	.101	.052	.019	.070	.037	.014	.041	.022	.008	.013	.007	.003	
10.0	.112	.056	.020	.096	.049	.017	.067	.035	.012	.039	.020	.007	.013	.007	.002	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:31 October 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:23.97V I:1.273A P:30.50W PF:1.000    Lamp Flux:895.214x1 lm											
NAME: CP-24-24x24-SP						TYPE:Crystal Panel			WEIGHT:		
SPEC.:FLS-1W4-2400K						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	3H	9.6	11.3	9.9	11.5	11.7	9.3	11.0	9.6	11.2	11.4
	4H	11.7	13.2	12.0	13.5	13.7	11.1	12.6	11.4	12.9	13.1
	6H	12.5	14.0	12.9	14.3	14.5	11.8	13.2	12.1	13.5	13.8
	8H	13.2	14.5	13.5	14.8	15.1	11.8	13.2	12.2	13.5	13.8
	12H	13.4	14.7	13.7	15.0	15.3	11.8	13.1	12.1	13.4	13.7
		13.5	14.8	13.9	15.1	15.4	11.7	13.0	12.1	13.3	13.6
4H	2H	10.3	11.7	10.6	12.0	12.3	10.1	11.5	10.4	11.8	12.0
	3H	12.4	13.7	12.8	14.0	14.3	11.9	13.2	12.3	13.5	13.9
	4H	13.4	14.6	13.8	14.9	15.3	12.7	13.9	13.1	14.2	14.6
	6H	14.2	15.2	14.6	15.6	15.9	12.9	13.9	13.3	14.3	14.6
	8H	14.4	15.4	14.9	15.8	16.2	12.8	13.8	13.2	14.2	14.6
	12H	14.6	15.5	15.0	15.9	16.3	12.8	13.7	13.2	14.1	14.5
8H	4H	13.6	14.6	14.1	15.0	15.4	13.0	14.0	13.5	14.4	14.8
	6H	14.5	15.3	15.0	15.7	16.2	13.2	14.0	13.7	14.4	14.9
	8H	14.9	15.6	15.3	16.0	16.5	13.2	13.9	13.6	14.3	14.8
	12H	15.1	15.7	15.6	16.2	16.6	13.1	13.8	13.6	14.2	14.7
12H	4H	13.6	14.5	14.0	14.9	15.3	13.1	14.0	13.5	14.4	14.8
	6H	14.5	15.2	15.0	15.7	16.1	13.3	14.0	13.7	14.4	14.9
	8H	14.9	15.5	15.3	15.9	16.4	13.2	13.8	13.7	14.3	14.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.6					

CIE Pub.117 Corrected 895.2 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:31 October 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:

```

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:

```

# ISOCANDELA DIAGRAM

Test:U:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

355.2 lm

%lum = 43.1%

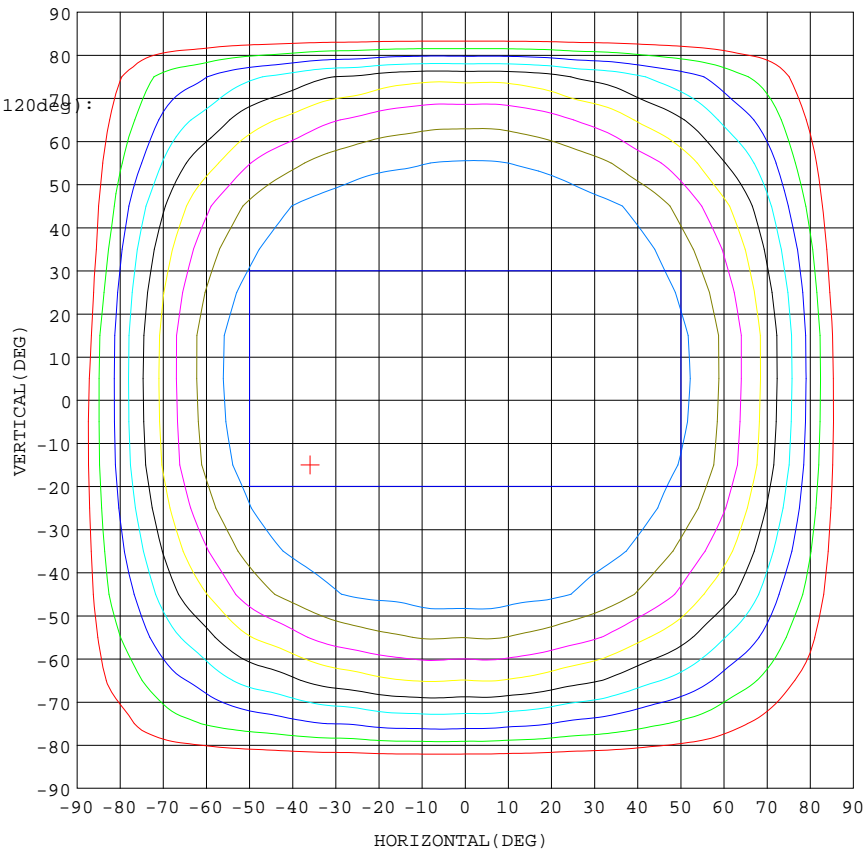
%lamp = 39.7%

Conical surface Flux(120deg):

585.78 lm

%lum = 71.1%

%lamp = 65.4%

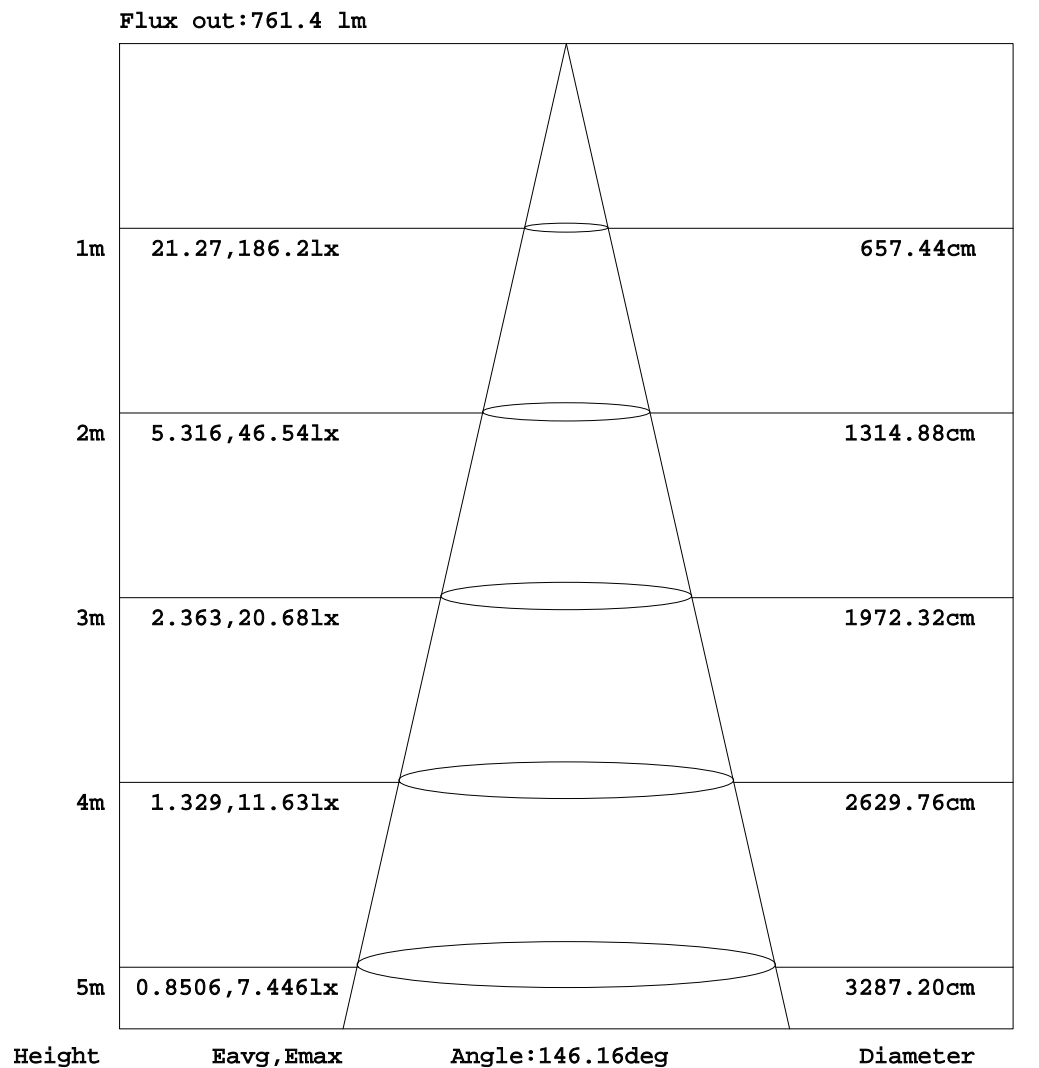


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:31 October 2024

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:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	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.

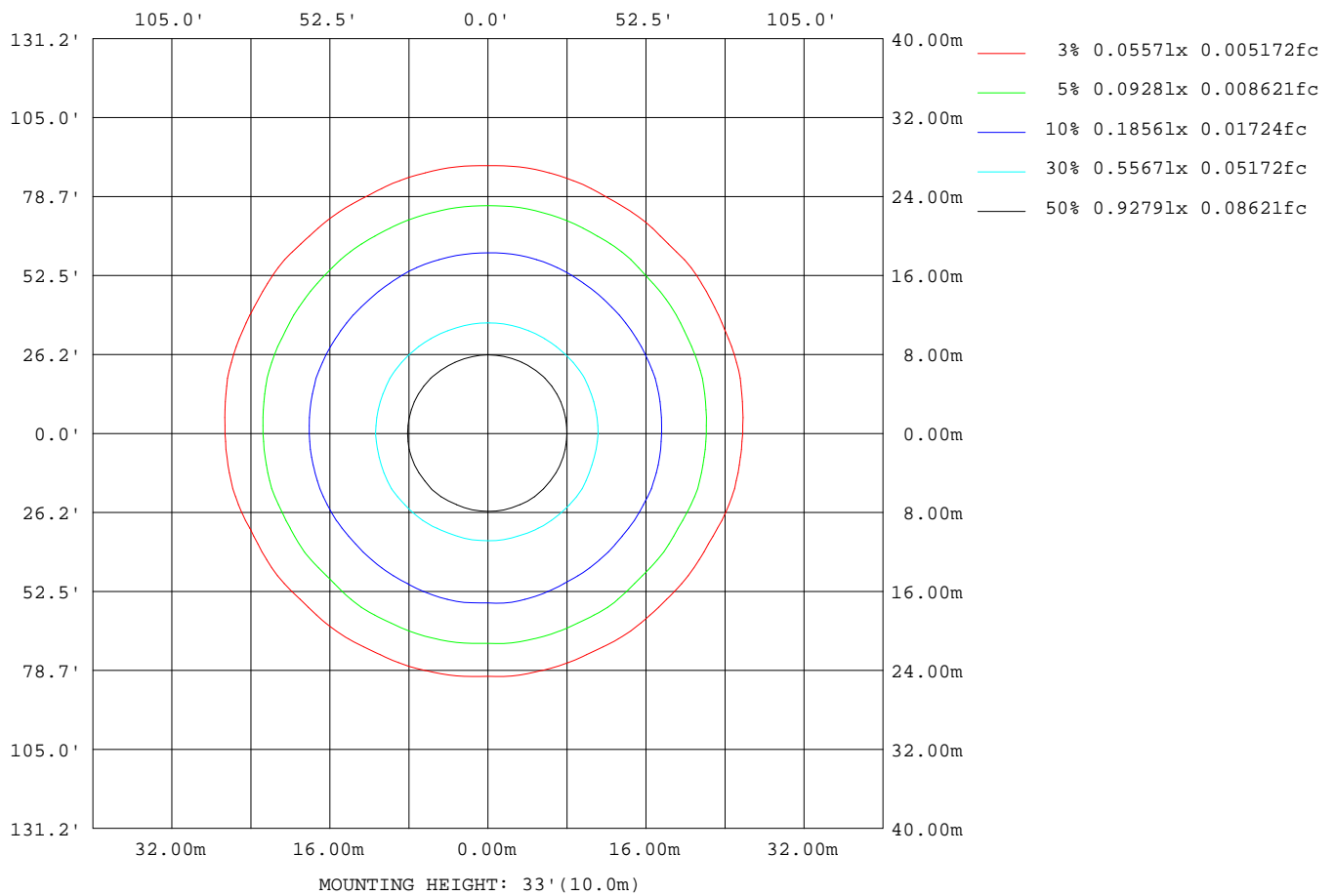
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:31 October 2024

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:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	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:31 October 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:23.97V I:1.273A P:30.50W PF:1.000 Lamp Flux:895.214x1 lm		
NAME: CP-24-24x24-SP	TYPE:Crystal Panel	WEIGHT:
SPEC.:FLS-1W4-2400K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

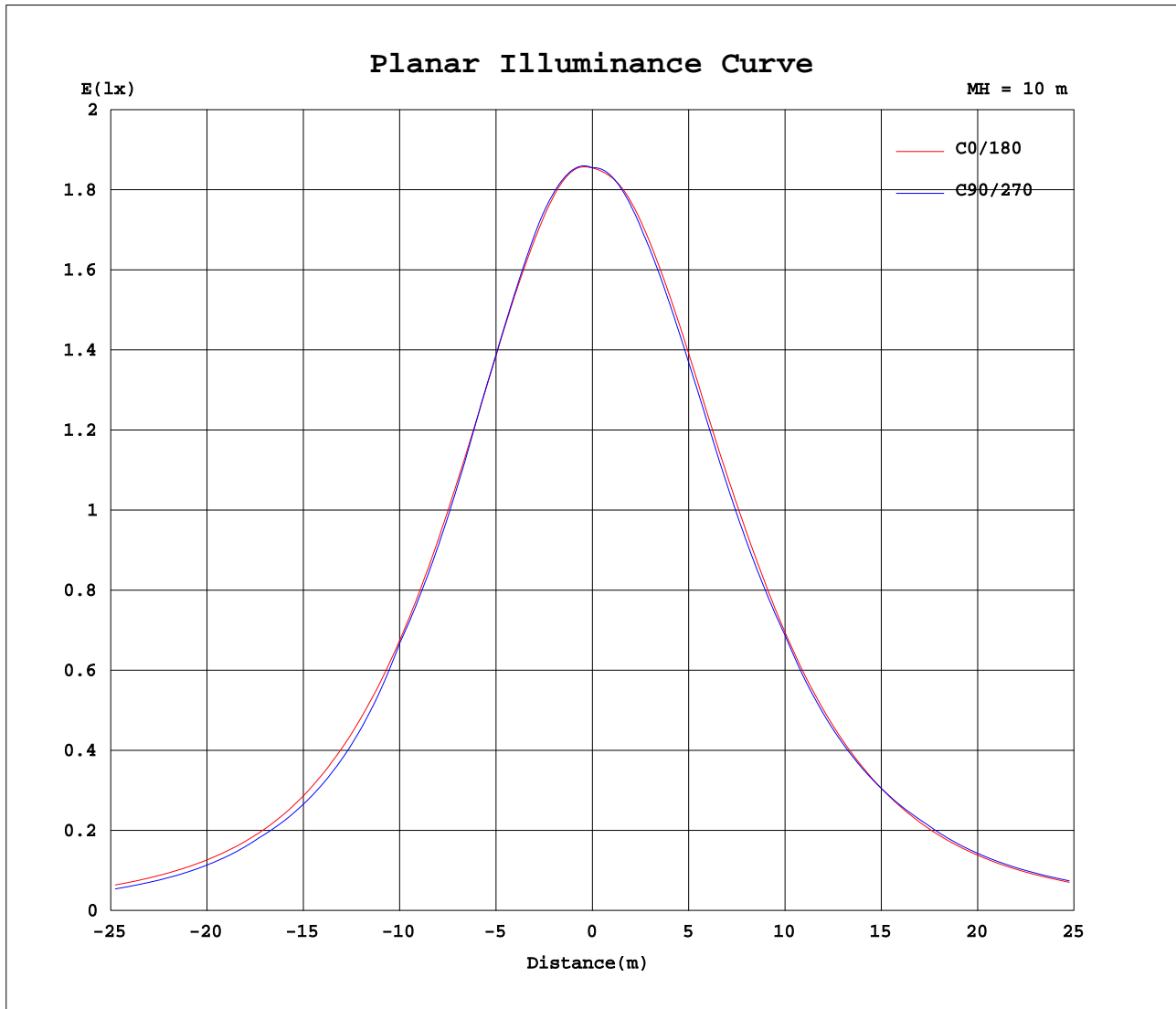
AvgL	cd/m2
L_0~180(65)av	401
L_0~180(75)av	422
L_0~180(85)av	433
L_90~270(65)av	386
L_90~270(75)av	419
L_90~270(85)av	0
L_45(65)av	385
L_45(75)av	398
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:31 October 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: 31 October 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:

```

```

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

```