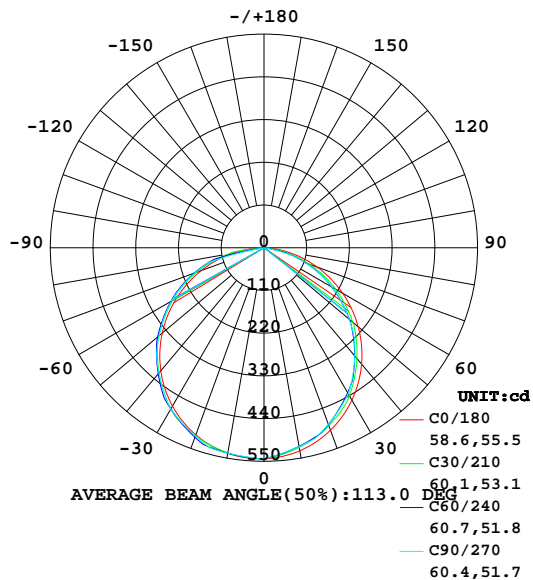


## LUMINAIRE PHOTOMETRIC TEST REPORT

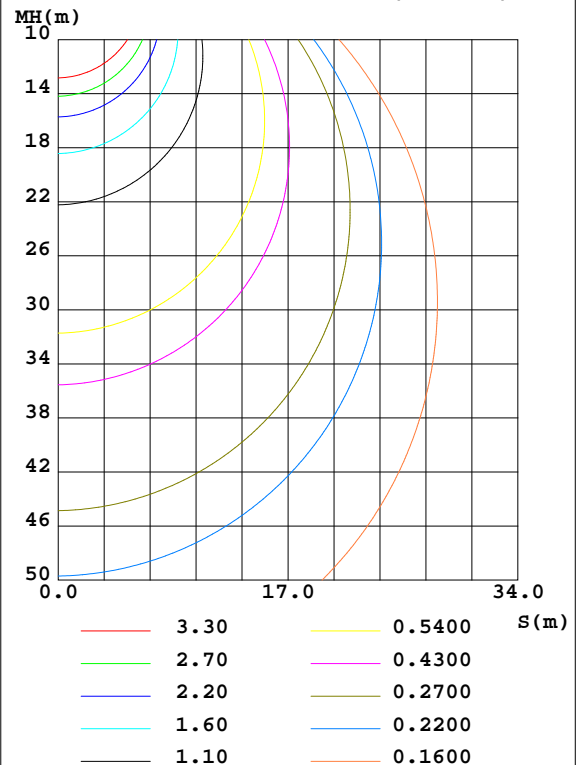
Test:U:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 32.39 lm/W			
MODEL	33.1212	I <sub>max</sub> (cd)	543.7	S/MH(C0/180)	1.29
NOMINAL POWER(W)	47.5423	LOR(%)	119.9	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1539.9	η UP,DN(C0-180)	0.0,55.9
NOMINAL FLUX(lm)	1284.53	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,64.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	119.9	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:03 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	539.4	532.8	531.8	535.2	542.8	541.2	540.2	538.8	0- 5	12.90	12.90	0.84,1
10	530.8	520.0	520.1	524.7	537.4	536.7	537.1	531.9	5- 10	38.15	51.05	3.32,3.97
15	517.7	505.0	508.5	512.1	527.4	529.9	533.9	522.9	10- 15	62.17	113.2	7.35,8.81
20	500.2	488.1	483.8	497.5	512.9	521.0	516.1	511.8	15- 20	84.18	197.4	12.8,15.4
25	478.5	461.6	459.2	473.0	494.1	501.0	498.3	490.0	20- 25	103.1	300.5	19.5,23.4
30	452.9	432.4	434.6	445.5	471.1	477.7	480.5	465.2	25- 30	118.7	419.2	27.2,32.6
35	423.6	402.2	399.3	416.8	444.1	453.1	450.7	439.3	30- 35	130.4	549.6	35.7,42.8
40	391.0	369.8	363.9	385.8	413.4	426.0	421.0	411.0	35- 40	137.5	687.1	44.6,53.5
45	355.2	329.9	328.6	347.1	379.3	390.5	391.2	374.1	40- 45	140.2	827.3	53.7,64.4
50	316.8	290.0	286.5	308.2	342.0	354.7	352.6	337.0	45- 50	138.4	965.7	62.7,75.2
55	276.1	250.0	244.3	269.2	302.1	318.6	314.0	299.9	50- 55	131.8	1098	71.3,85.4
60	233.6	205.6	202.2	224.8	260.0	275.6	275.3	256.8	55- 60	121.2	1219	79.1,94.9
65	189.9	162.1	158.7	181.1	216.3	233.3	232.2	214.6	60- 65	106.9	1326	86.1,103
70	145.9	119.2	115.1	137.6	171.6	190.2	189.0	172.0	65- 70	89.32	1415	91.9,110
75	102.1	76.82	71.49	94.11	127.0	145.9	145.9	128.4	70- 75	69.33	1484	96.4,116
80	60.32	32.95	0	45.88	81.60	87.02	0	73.53	75- 80	42.57	1527	99.2,119
85	21.20	0	0	0	35.80	0	0	0	80- 85	11.90	1539	99.9,120
90	0.6707	0	0	0	4.319	0	0	0	85- 90	1.156	1540	100,120
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		

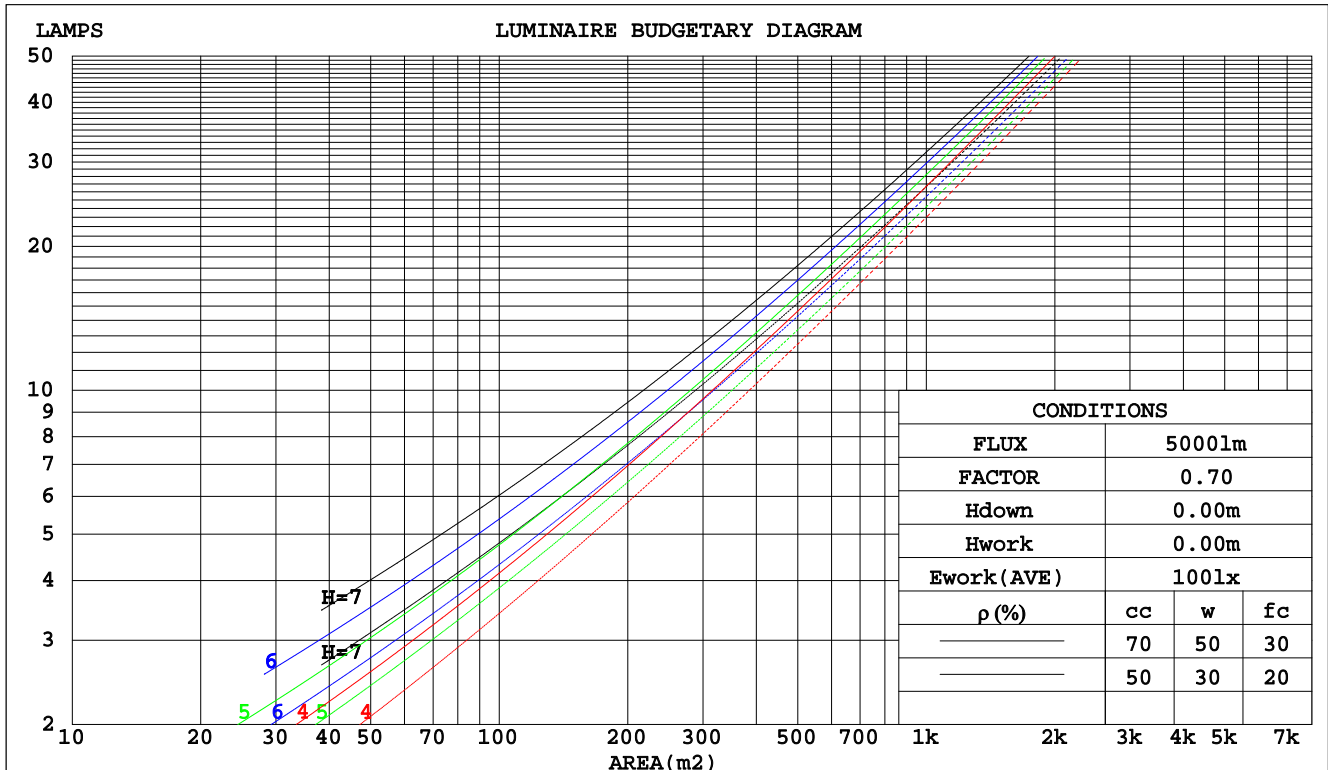
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 November 2024

$\gamma$  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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*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	1.43	1.43	1.43	1.39	1.39	1.39	1.33	1.33	1.33	1.28	1.28	1.28	1.22	1.22	1.22	1.20
1.0	1.25	1.20	1.15	1.22	1.18	1.14	1.17	1.13	1.10	1.13	1.09	1.07	1.08	1.06	1.03	1.01
2.0	1.09	1.01	.94	1.07	.99	.93	1.02	.96	.91	.98	.93	.88	.95	.90	.86	.84
3.0	.95	.86	.78	.94	.84	.77	.90	.82	.76	.87	.80	.74	.84	.78	.73	.70
4.0	.84	.74	.66	.83	.73	.65	.80	.71	.64	.77	.70	.63	.74	.68	.63	.60
5.0	.75	.65	.57	.74	.64	.56	.71	.62	.56	.69	.61	.55	.67	.60	.54	.52
6.0	.68	.57	.49	.67	.56	.49	.64	.55	.49	.62	.54	.48	.61	.53	.48	.45
7.0	.61	.51	.43	.60	.50	.43	.59	.50	.43	.57	.49	.43	.55	.48	.42	.40
8.0	.56	.46	.39	.55	.45	.39	.54	.45	.38	.52	.44	.38	.51	.43	.38	.36
9.0	.51	.41	.35	.51	.41	.35	.49	.41	.35	.48	.40	.34	.47	.39	.34	.32
10.0	.47	.38	.32	.47	.38	.31	.46	.37	.31	.44	.37	.31	.43	.36	.31	.29



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*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	.362	.206	.065	.353	.201	.064	.337	.193	.062	.323	.186	.060	.309	.179	.058		
2.0	.346	.190	.058	.338	.186	.057	.324	.180	.056	.312	.175	.055	.300	.169	.053		
3.0	.322	.171	.051	.315	.169	.051	.303	.164	.050	.291	.160	.049	.281	.155	.048		
4.0	.298	.155	.046	.292	.153	.045	.281	.149	.045	.271	.145	.044	.261	.142	.043		
5.0	.276	.140	.041	.271	.139	.040	.261	.136	.040	.252	.133	.040	.243	.130	.039		
6.0	.256	.128	.037	.251	.127	.037	.243	.124	.036	.234	.122	.036	.227	.119	.035		
7.0	.238	.118	.033	.234	.117	.033	.226	.114	.033	.219	.112	.033	.212	.110	.032		
8.0	.223	.109	.031	.219	.108	.030	.212	.106	.030	.205	.104	.030	.199	.102	.030		
9.0	.209	.101	.028	.205	.100	.028	.199	.098	.028	.193	.097	.028	.188	.095	.028		
10.0	.196	.094	.026	.193	.093	.026	.188	.092	.026	.182	.091	.026	.177	.089	.026		

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	.228	.228	.228	.195	.195	.195	.133	.133	.133	.077	.077	.077	.024	.024	.024	
1.0	.215	.187	.162	.184	.161	.139	.126	.111	.096	.073	.064	.056	.023	.021	.018	
2.0	.206	.158	.118	.176	.136	.102	.121	.094	.071	.070	.055	.042	.022	.018	.014	
3.0	.197	.137	.089	.169	.118	.077	.116	.082	.054	.067	.048	.032	.022	.016	.010	
4.0	.188	.121	.070	.161	.105	.061	.111	.073	.043	.064	.043	.025	.021	.014	.008	
5.0	.179	.109	.057	.154	.094	.049	.106	.066	.035	.061	.039	.021	.020	.013	.007	
6.0	.170	.099	.047	.147	.085	.041	.101	.060	.029	.059	.035	.017	.019	.011	.006	
7.0	.162	.090	.040	.140	.078	.035	.096	.055	.025	.056	.032	.015	.018	.011	.005	
8.0	.155	.083	.034	.133	.072	.030	.092	.051	.021	.054	.030	.013	.017	.010	.004	
9.0	.147	.077	.030	.127	.067	.026	.088	.047	.019	.051	.028	.011	.017	.009	.004	
10.0	.140	.072	.027	.121	.063	.023	.084	.044	.017	.049	.026	.010	.016	.009	.003	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm										
NAME: LP-24-48x24-HP					TYPE:Basic LightPanel			WEIGHT:		
SPEC.:FLS-1W8-3000K					DIM.: 48*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	10.6	12.1	10.8	12.3	12.5	10.0	11.6	10.3	11.8	12.0
3H	12.1	13.5	12.4	13.7	14.0	11.3	12.7	11.6	12.9	13.2
4H	12.7	14.0	13.0	14.3	14.5	11.7	13.0	12.0	13.3	13.6
6H	13.1	14.4	13.4	14.6	14.9	11.7	13.0	12.1	13.2	13.5
8H	13.2	14.4	13.6	14.7	15.0	11.7	12.9	12.0	13.2	13.5
12H	13.3	14.4	13.6	14.7	15.0	11.6	12.8	12.0	13.1	13.4
4H 2H	11.0	12.4	11.4	12.6	12.9	10.6	12.0	10.9	12.2	12.5
3H	12.7	13.9	13.1	14.2	14.5	12.0	13.2	12.4	13.5	13.8
4H	13.4	14.5	13.8	14.8	15.1	12.5	13.6	12.9	13.9	14.3
6H	13.9	14.9	14.3	15.2	15.6	12.6	13.5	13.0	13.9	14.2
8H	14.1	15.0	14.5	15.3	15.7	12.5	13.4	12.9	13.8	14.2
12H	14.2	15.0	14.6	15.4	15.8	12.5	13.3	12.9	13.7	14.1
8H 4H	13.5	14.4	14.0	14.8	15.2	12.7	13.6	13.2	14.0	14.4
6H	14.2	14.9	14.6	15.3	15.7	12.8	13.6	13.3	14.0	14.4
8H	14.4	15.0	14.8	15.4	15.9	12.8	13.4	13.2	13.9	14.3
12H	14.5	15.0	14.9	15.5	15.9	12.8	13.3	13.2	13.7	14.2
12H 4H	13.5	14.3	13.9	14.7	15.1	12.7	13.5	13.2	13.9	14.3
6H	14.1	14.8	14.6	15.2	15.6	12.8	13.5	13.3	13.9	14.4
8H	14.3	14.9	14.8	15.3	15.8	12.8	13.3	13.3	13.8	14.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 1285 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.9)

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*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) $k(RI) \times RCR = 5$									
$k = 0.60$	69	55	47	68	55	47	67	54	46	39
0.80	81	67	58	80	67	58	78	66	58	49
1.00	91	78	69	90	77	69	87	79	68	60
1.25	100	87	79	98	86	78	95	85	77	68
1.50	106	94	86	104	93	85	100	91	84	75
2.00	114	104	96	112	103	95	108	100	94	84
2.50	119	110	102	116	108	101	112	105	99	89
3.00	123	115	108	120	113	107	116	109	104	94
4.00	128	121	116	125	119	114	120	115	111	100
5.00	131	125	120	128	123	118	122	118	115	104
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

827.32 lm

%lum = 53.7%

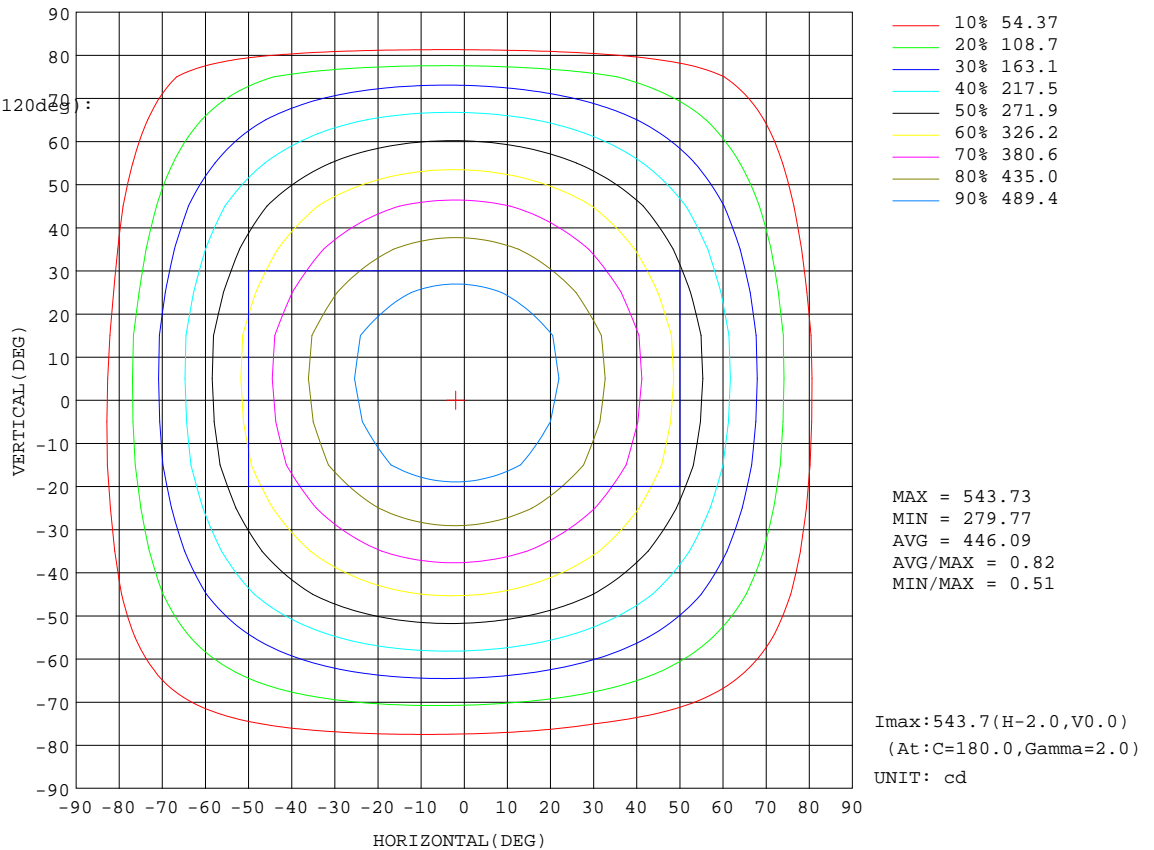
%lamp = 64.4%

Conical surface Flux(120deg):

1218.8 lm

%lum = 79.1%

%lamp = 94.9%

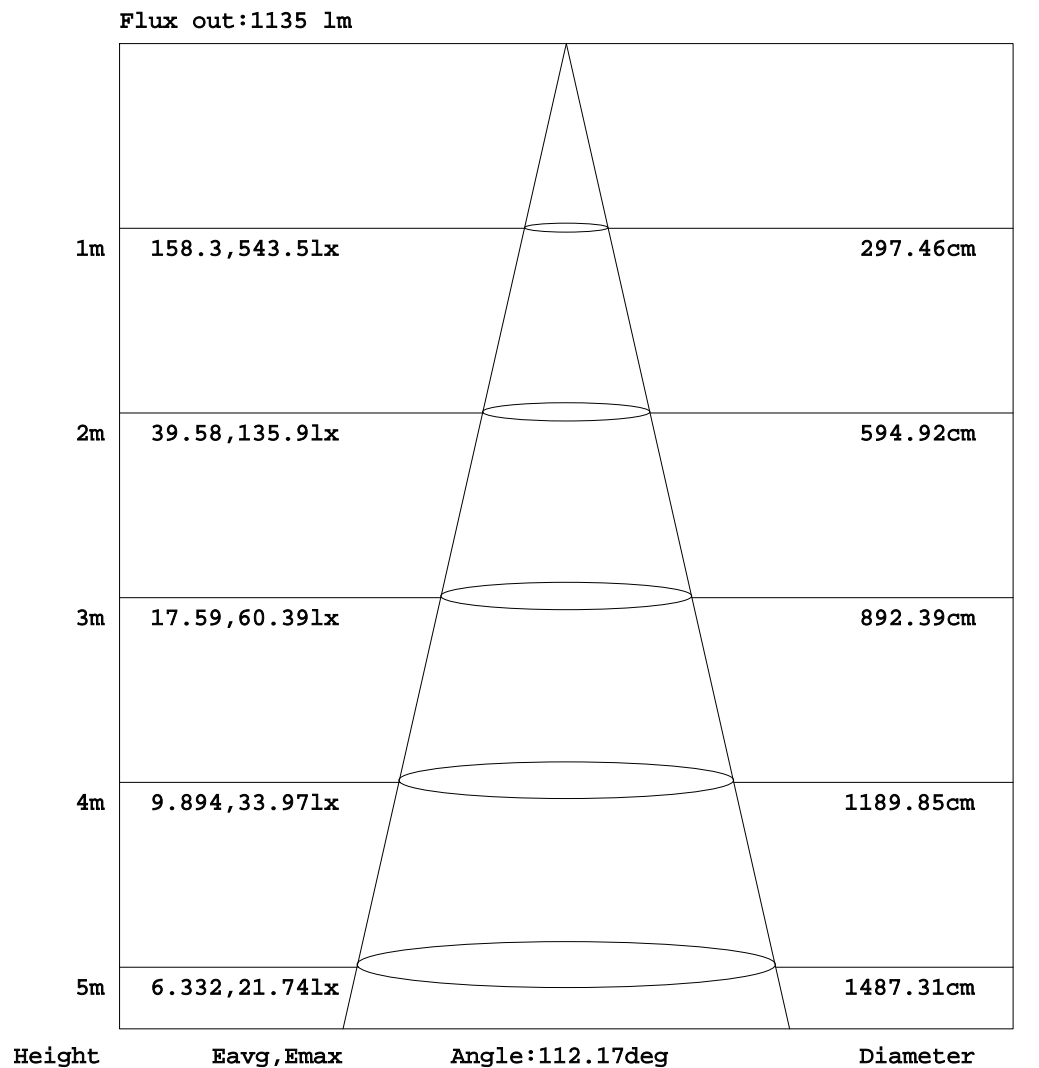


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 November 2024

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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*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.

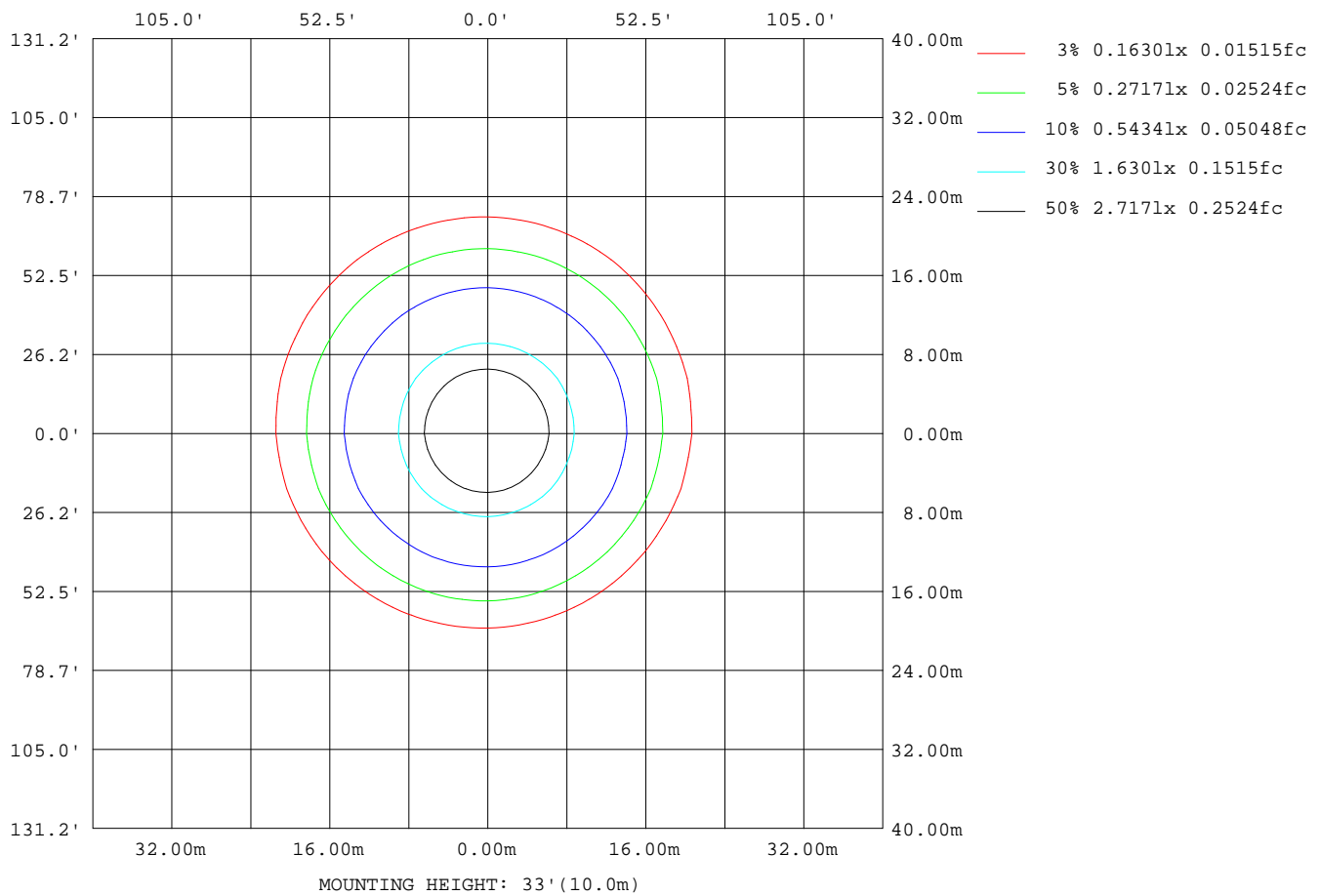
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 November 2024

$\gamma$  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:



ISOLUX DIAGRAM

Test:U:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*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:03 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:24.02V I:1.979A P:47.54W PF:1.000 Lamp Flux:1284.53x1 lm		
NAME: LP-24-48x24-HP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W8-3000K	DIM.: 48*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

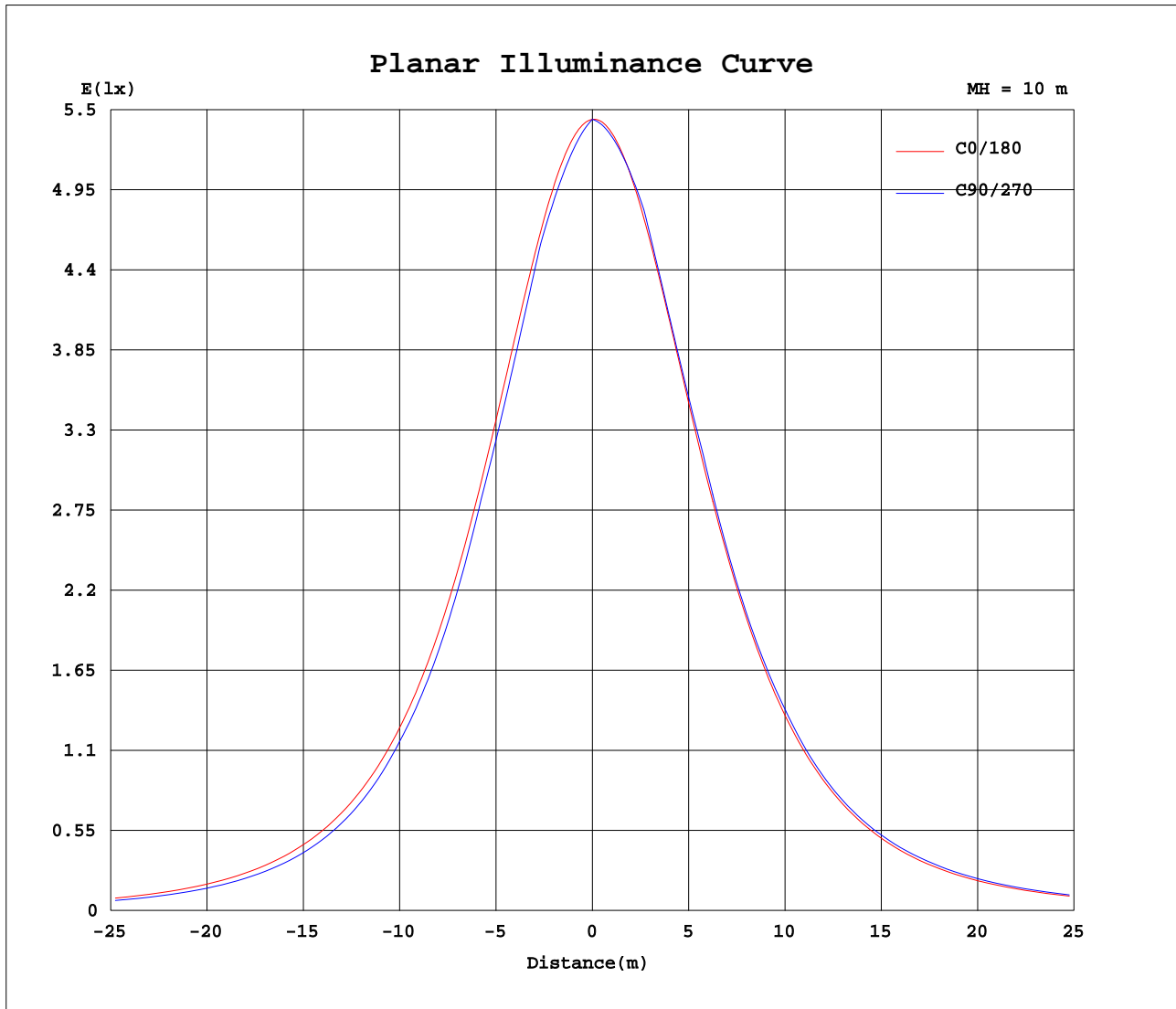
AvgL	cd/m2
L_0~180(65)av	576
L_0~180(75)av	530
L_0~180(85)av	392
L_90~270(65)av	554
L_90~270(75)av	503
L_90~270(85)av	0
L_45(65)av	560
L_45(75)av	515
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:03 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: 03 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:

```