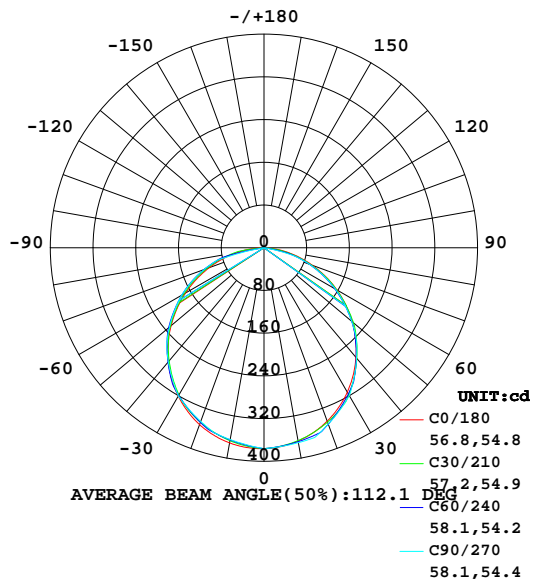


LUMINAIRE PHOTOMETRIC TEST REPORT

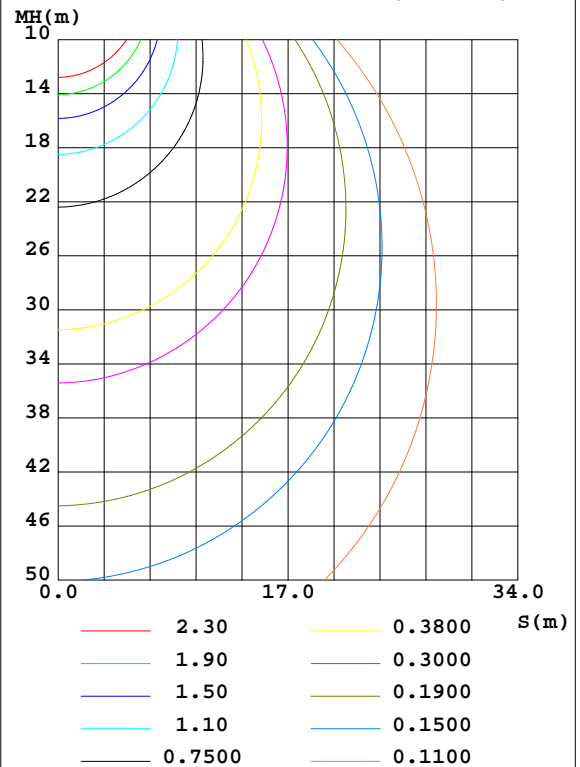
Test:U:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 30.07 lm/W			
MODEL	33.1212	I _{max} (cd)	376.4	S/MH(C0/180)	1.27
NOMINAL POWER(W)	35.2283	LOR(%)	87.1	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1059.2	η UP,DN(C0-180)	0.0,42.7
NOMINAL FLUX(lm)	1216.24	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	87.1	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:06 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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	373.6	372.7	373.4	374.1	375.4	372.0	370.5	370.7	0- 5	8.943	8.943	0.84,0.74
10	367.6	367.6	370.6	370.1	371.1	366.0	364.8	363.4	5- 10	26.46	35.41	3.34,2.91
15	358.2	360.8	367.8	364.5	363.5	358.4	359.0	354.6	10- 15	43.16	78.57	7.42,6.46
20	345.7	352.6	351.8	357.4	352.5	349.3	346.2	344.3	15- 20	58.47	137.0	12.9,11.3
25	330.3	335.0	335.8	340.8	338.2	334.5	333.4	328.5	20- 25	71.60	208.6	19.7,17.2
30	312.1	315.1	319.8	321.6	321.1	317.7	320.6	311.0	25- 30	82.40	291.0	27.5,23.9
35	291.2	294.4	294.8	301.4	301.2	299.9	299.7	292.8	30- 35	90.48	381.5	36,31.4
40	267.9	272.1	269.8	279.5	278.6	280.5	278.8	272.8	35- 40	95.24	476.8	45,39.2
45	242.6	243.5	244.8	251.3	253.8	255.5	257.9	247.1	40- 45	96.89	573.7	54.2,47.2
50	215.5	214.7	214.5	223.0	227.2	230.3	231.3	221.5	45- 50	95.40	669.1	63.2,55
55	187.0	186.1	184.3	194.5	198.9	205.1	204.8	195.7	50- 55	90.56	759.6	71.7,62.5
60	157.4	153.8	154.0	162.2	169.5	175.5	178.2	166.2	55- 60	82.90	842.5	79.5,69.3
65	127.2	122.3	122.3	130.6	139.4	146.6	148.8	137.4	60- 65	72.72	915.2	86.4,75.3
70	96.61	91.29	90.72	99.47	109.0	117.5	119.4	108.1	65- 70	60.37	975.6	92.1,80.2
75	67.34	60.71	59.10	68.48	79.13	88.19	90.05	78.91	70- 75	46.50	1022	96.5,84
80	39.51	28.03	0	33.93	50.04	50.89	0	43.68	75- 80	28.34	1050	99.2,86.4
85	14.16	0	0	0	23.23	0	0	0	80- 85	7.932	1058	99.9,87
90	1.190	0	0	0	2.782	0	0	0	85- 90	0.7940	1059	100,87.1
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		

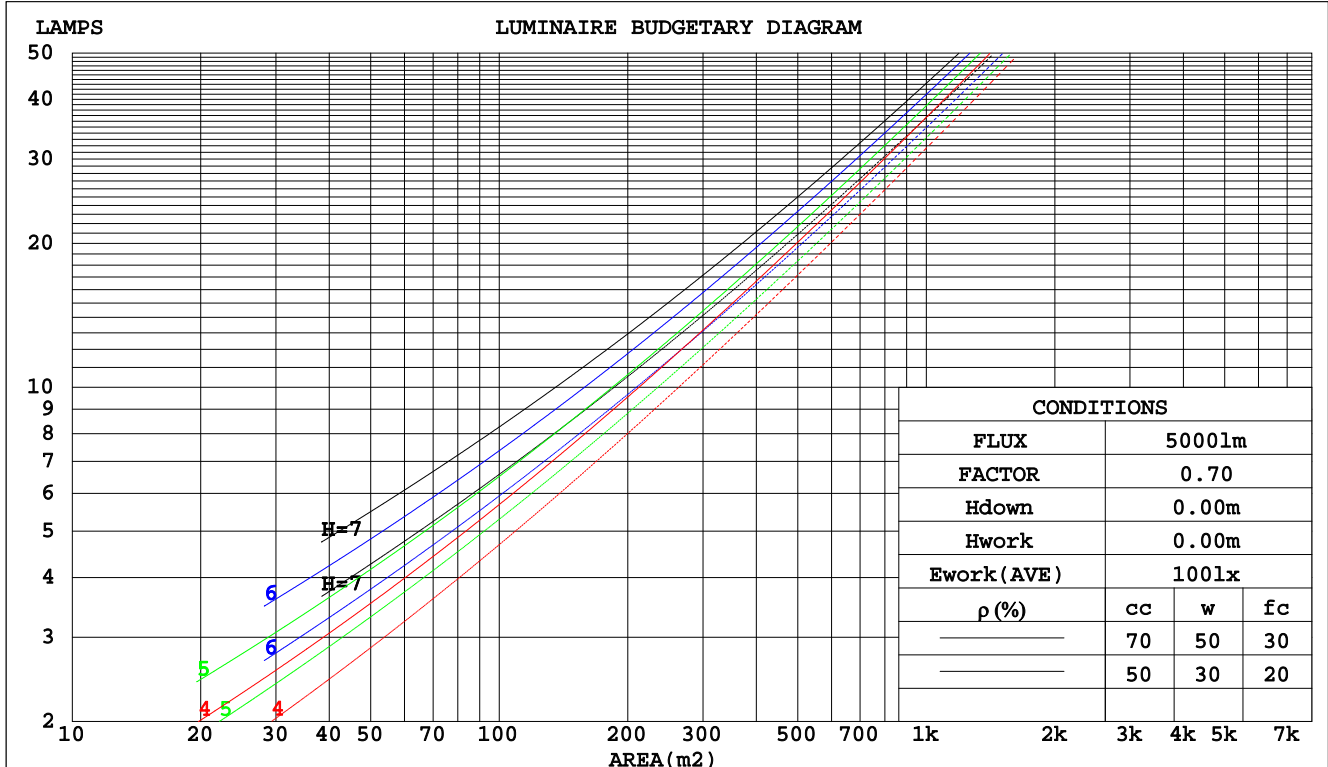
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:06 November 2024

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	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	1.04	1.04	1.04	1.01	1.01	1.01	.97	.97	.97	.93	.93	.93	.89	.89	.89	.87
1.0	.91	.87	.84	.89	.86	.83	.85	.83	.80	.82	.80	.78	.79	.77	.75	.73
2.0	.79	.73	.68	.78	.72	.68	.74	.70	.66	.72	.68	.64	.69	.66	.63	.61
3.0	.69	.62	.57	.68	.62	.56	.66	.60	.55	.63	.58	.54	.61	.57	.53	.51
4.0	.62	.54	.48	.60	.53	.48	.58	.52	.47	.56	.51	.46	.54	.50	.46	.44
5.0	.55	.47	.41	.54	.47	.41	.52	.46	.41	.50	.45	.40	.49	.44	.40	.38
6.0	.49	.42	.36	.49	.41	.36	.47	.40	.36	.46	.40	.35	.44	.39	.35	.33
7.0	.45	.37	.32	.44	.37	.32	.43	.36	.31	.41	.36	.31	.40	.35	.31	.29
8.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.37	.32	.28	.26
9.0	.37	.30	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.34	.29	.25	.23
10.0	.35	.28	.23	.34	.27	.23	.33	.27	.23	.32	.27	.23	.32	.26	.23	.21



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:06 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:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	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	.261	.148	.047	.255	.145	.046	.243	.140	.045	.233	.134	.043	.223	.129	.042		
2.0	.250	.137	.042	.244	.135	.041	.234	.130	.040	.225	.126	.040	.216	.122	.039		
3.0	.233	.124	.037	.228	.122	.037	.219	.119	.036	.211	.115	.035	.203	.112	.035		
4.0	.215	.112	.033	.211	.111	.033	.203	.108	.032	.196	.105	.032	.189	.103	.031		
5.0	.200	.102	.029	.196	.101	.029	.189	.098	.029	.182	.096	.029	.176	.094	.028		
6.0	.185	.093	.027	.182	.092	.026	.176	.090	.026	.170	.088	.026	.164	.086	.026		
7.0	.173	.085	.024	.170	.085	.024	.164	.083	.024	.159	.081	.024	.154	.080	.023		
8.0	.161	.079	.022	.159	.078	.022	.154	.077	.022	.149	.075	.022	.144	.074	.022		
9.0	.151	.073	.020	.149	.073	.020	.144	.071	.020	.140	.070	.020	.136	.069	.020		
10.0	.142	.068	.019	.140	.068	.019	.136	.067	.019	.132	.066	.019	.129	.065	.019		

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	.166	.166	.166	.142	.142	.142	.097	.097	.097	.056	.056	.056	.018	.018	.018	
1.0	.156	.136	.118	.134	.117	.101	.092	.080	.070	.053	.046	.041	.017	.015	.013	
2.0	.149	.115	.086	.128	.099	.074	.088	.068	.052	.051	.040	.030	.016	.013	.010	
3.0	.143	.100	.065	.122	.086	.056	.084	.060	.040	.049	.035	.023	.016	.011	.008	
4.0	.136	.088	.051	.117	.076	.044	.080	.053	.031	.047	.031	.018	.015	.010	.006	
5.0	.130	.079	.041	.111	.068	.036	.077	.048	.025	.044	.028	.015	.014	.009	.005	
6.0	.124	.072	.034	.106	.062	.030	.073	.043	.021	.043	.026	.013	.014	.008	.004	
7.0	.118	.066	.029	.101	.057	.025	.070	.040	.018	.041	.023	.011	.013	.008	.004	
8.0	.112	.061	.025	.097	.052	.022	.067	.037	.015	.039	.022	.009	.013	.007	.003	
9.0	.107	.056	.022	.092	.049	.019	.064	.034	.014	.037	.020	.008	.012	.007	.003	
10.0	.102	.052	.020	.088	.046	.017	.061	.032	.012	.036	.019	.007	.012	.006	.002	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:06 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:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm											
NAME: CL-24-24x24-HP						TYPE:Cloud Frame			WEIGHT:		
SPEC.:FLS-1W8-6000K						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		9.6	11.1	9.8	11.3	11.5	9.4	10.9	9.6	11.1	11.3
3H		11.0	12.4	11.3	12.7	12.9	10.7	12.1	11.0	12.4	12.6
4H		11.6	12.9	11.9	13.2	13.5	11.2	12.5	11.5	12.8	13.1
6H		12.0	13.3	12.3	13.5	13.8	11.2	12.5	11.6	12.8	13.0
8H		12.1	13.3	12.5	13.6	13.9	11.2	12.4	11.5	12.7	13.0
12H		12.2	13.3	12.5	13.6	13.9	11.1	12.3	11.5	12.6	12.9
4H	2H	10.1	11.4	10.4	11.7	11.9	10.0	11.3	10.3	11.5	11.8
	3H	11.7	12.9	12.1	13.2	13.5	11.5	12.7	11.8	12.9	13.2
	4H	12.4	13.5	12.8	13.8	14.2	12.1	13.1	12.4	13.4	13.8
	6H	12.9	13.9	13.3	14.2	14.6	12.1	13.1	12.5	13.4	13.8
	8H	13.1	14.0	13.5	14.3	14.7	12.1	13.0	12.5	13.3	13.7
	12H	13.2	14.0	13.6	14.4	14.8	12.0	12.8	12.5	13.2	13.6
8H	4H	12.6	13.5	13.0	13.9	14.3	12.3	13.2	12.7	13.5	13.9
	6H	13.2	14.0	13.7	14.4	14.8	12.4	13.1	12.8	13.5	13.9
	8H	13.5	14.1	13.9	14.5	15.0	12.3	13.0	12.8	13.4	13.9
	12H	13.6	14.1	14.1	14.6	15.0	12.3	12.9	12.8	13.3	13.8
12H	4H	12.6	13.4	13.0	13.8	14.2	12.3	13.1	12.7	13.5	13.9
	6H	13.2	13.9	13.7	14.3	14.7	12.4	13.0	12.9	13.5	13.9
	8H	13.4	14.0	13.9	14.4	14.9	12.4	12.9	12.8	13.4	13.8
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H		+ 0.2 / - 0.4					+ 0.1 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117 Corrected 1216 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:06 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:

```

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:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

573.66 lm

%lum = 54.2%

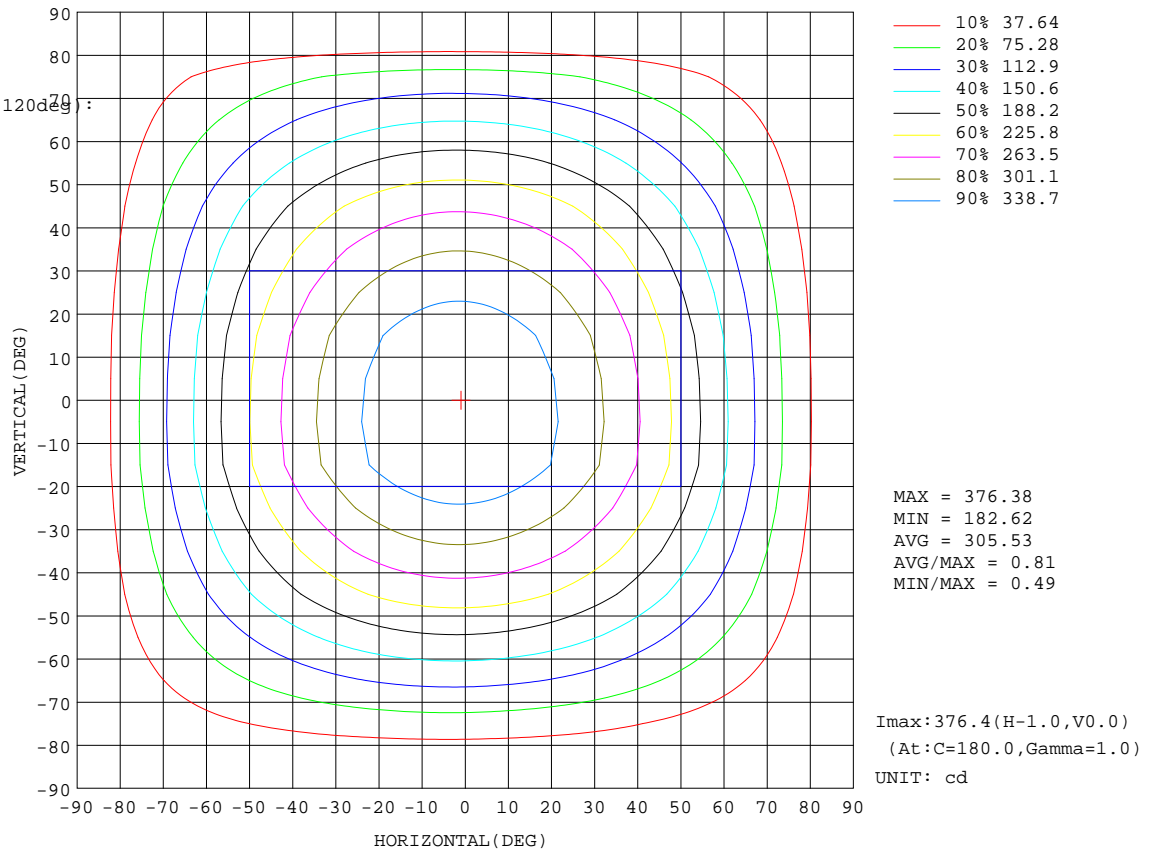
%lamp = 47.2%

Conical surface Flux(120deg):

842.51 lm

%lum = 79.5%

%lamp = 69.3%



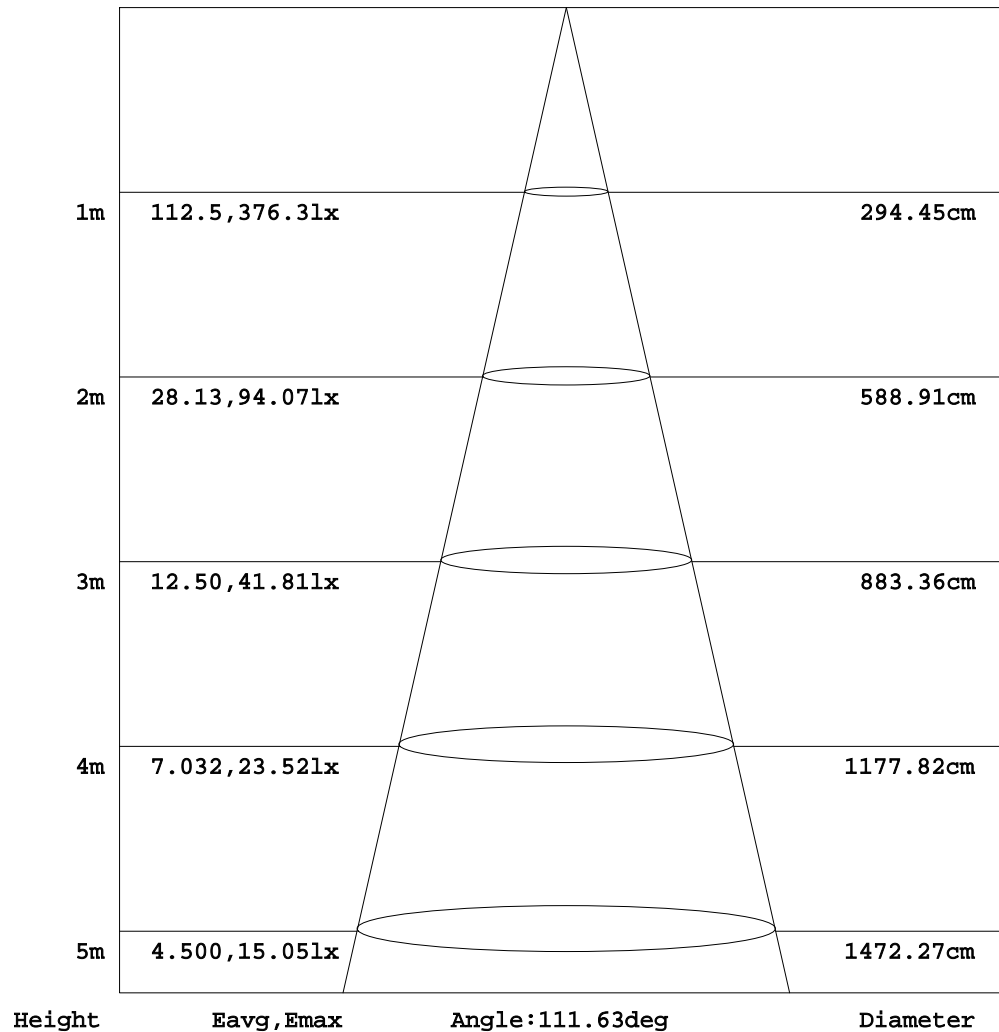
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:06 November 2024

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:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:776.9 lm



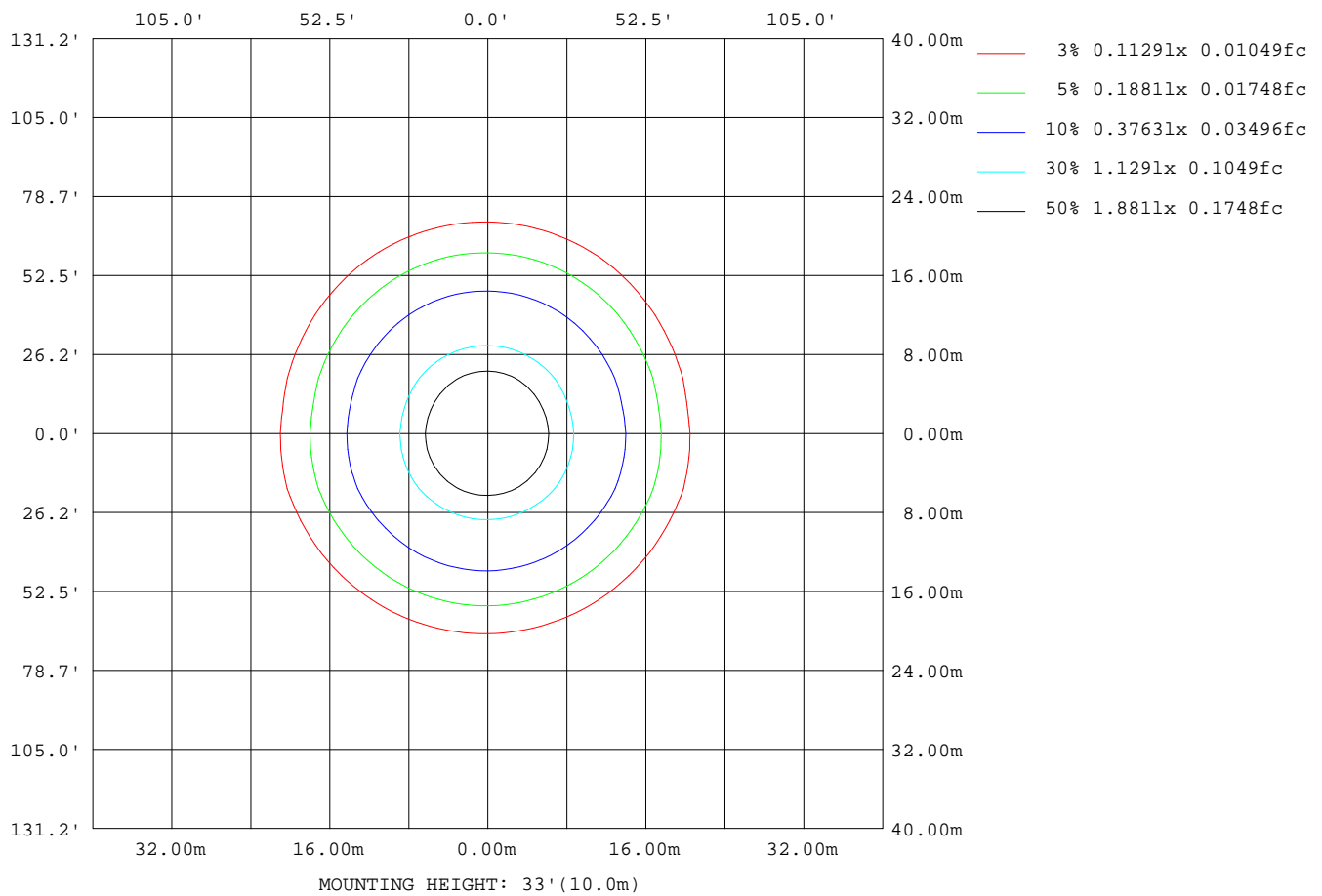
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 06 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:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	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:06 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:24.08V I:1.463A P:35.23W PF:1.000 Lamp Flux:1216.24x1 lm		
NAME: CL-24-24x24-HP	TYPE:Cloud Frame	WEIGHT:
SPEC.:FLS-1W8-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

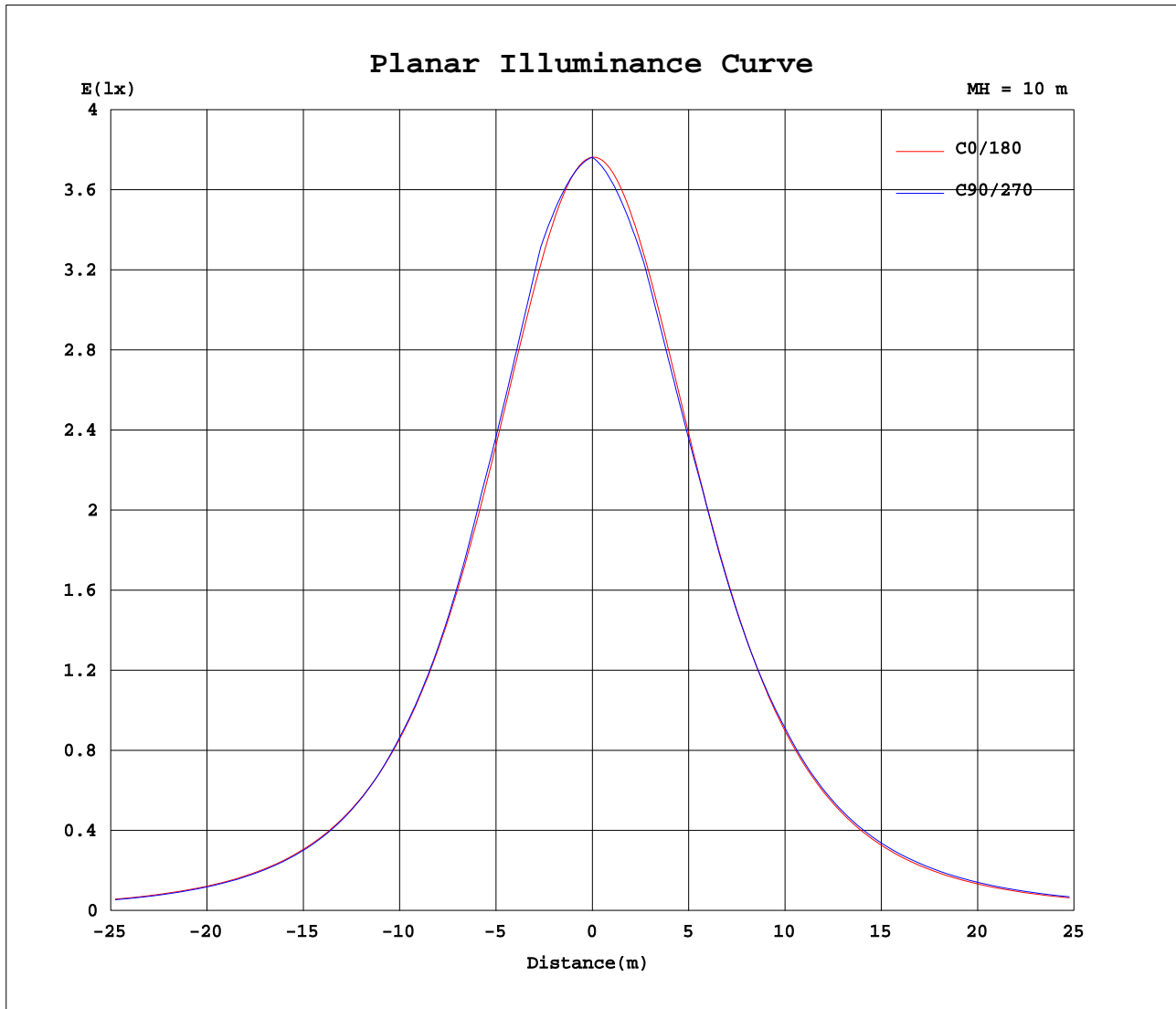
AvgL	cd/m2
L_0~180(65)av	378
L_0~180(75)av	339
L_0~180(85)av	257
L_90~270(65)av	384
L_90~270(75)av	345
L_90~270(85)av	0
L_45(65)av	380
L_45(75)av	343
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:06 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: 06 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:

```

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:

```