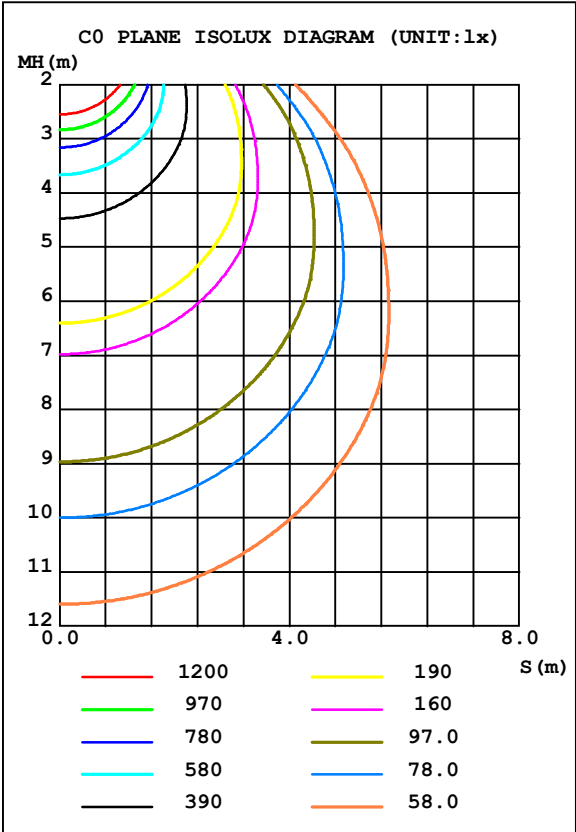
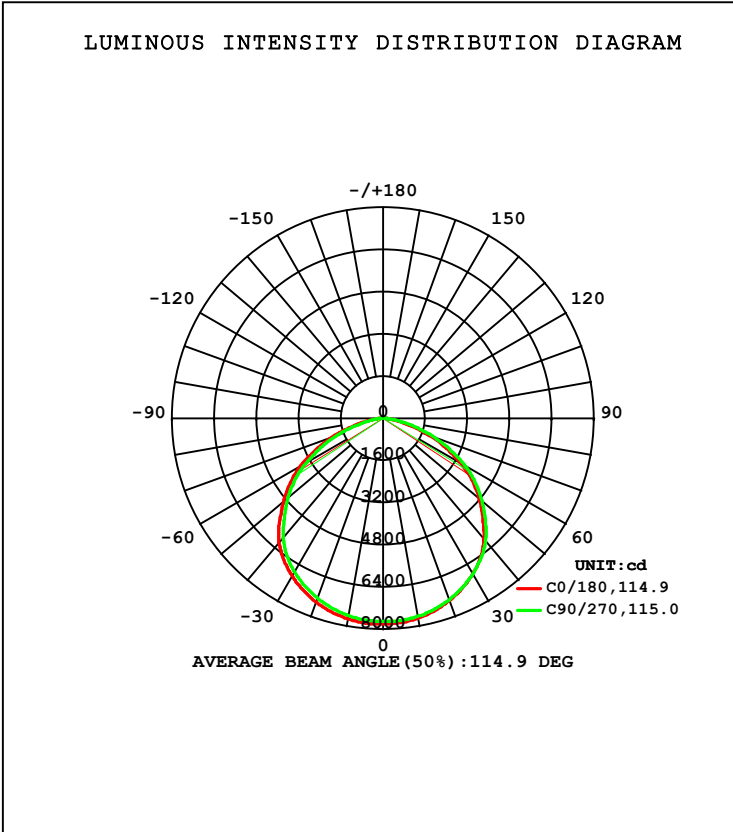


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 110.42 lm/W
MODEL		Imax(cd)	7801	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	22228	η UP,DN(C0-180)	0.0,50.0	
NOMINAL FLUX(lm)	22227.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	7692	7628	7727	7593					0- 10	735.9	735.9	3.31,3.31
20	7359	7329	7420	7266					10- 20	2127	2863	12.9,12.9
30	6816	6814	6910	6729					20- 30	3278	6141	27.6,27.6
40	5957	6058	6149	5889					30- 40	4042	10183	45.8,45.8
50	4775	4911	4936	4717					40- 50	4192	14375	64.7,64.7
60	3377	3593	3634	3347					50- 60	3750	18125	81.5,81.5
70	1798	2015	2025	1783					60- 70	2664	20789	93.5,93.5
80	444.8	556.2	581.3	458.5					70- 80	1222	22011	99,99
90	57.21	56.89	83.57	82.00					80- 90	217.2	22228	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): 12302 lm

%lum = 55.3%

%lamp = 55.3%

Conical surface Flux(120deg): 18125 lm

%lum = 81.5%

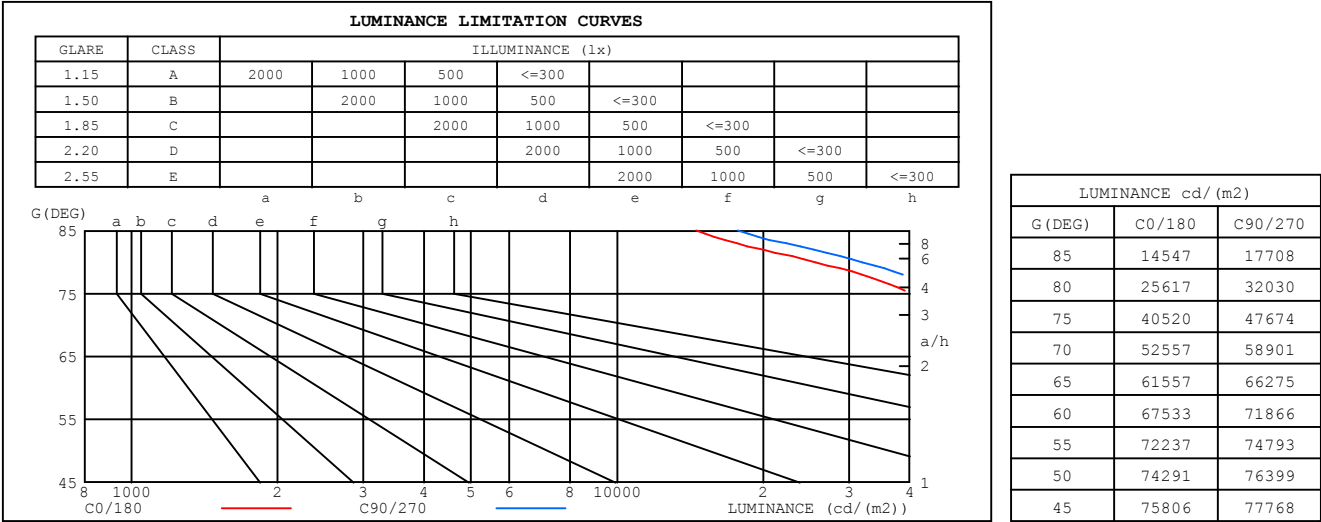
%lamp = 81.5%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



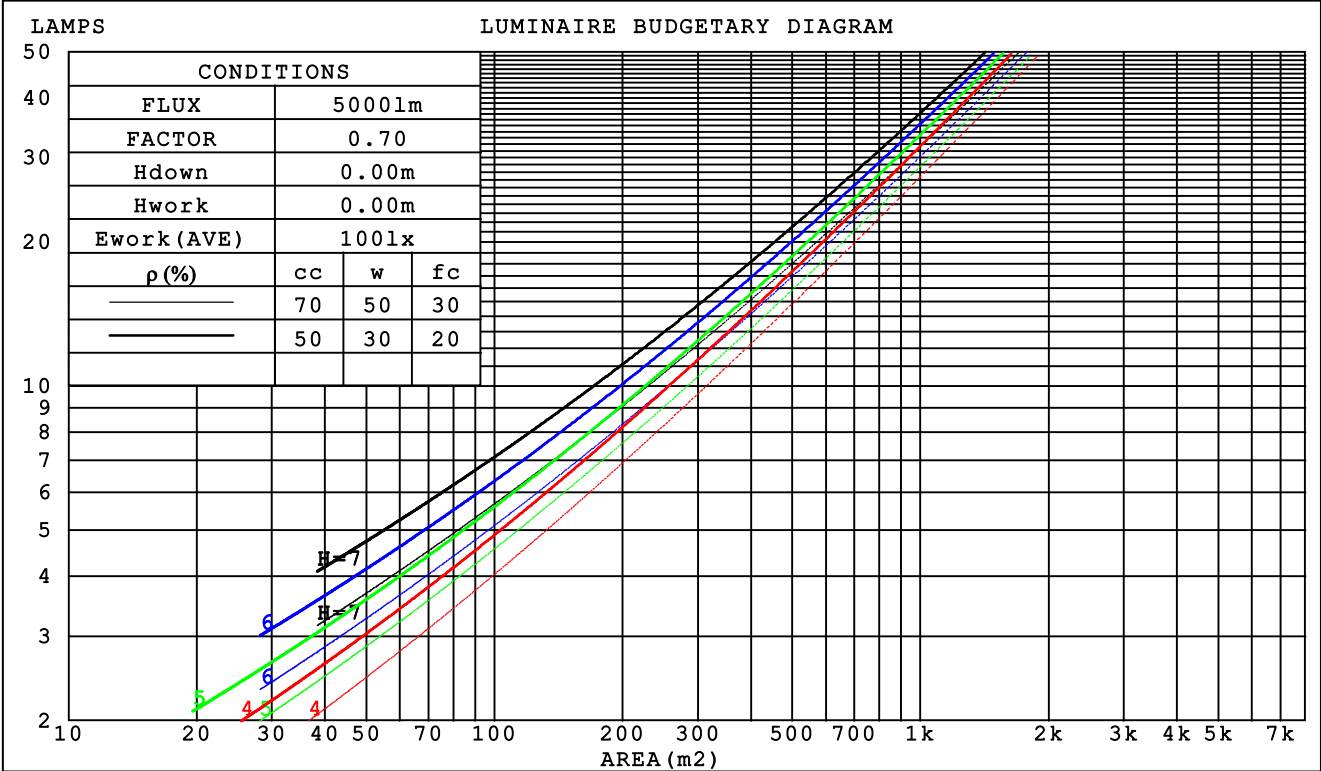
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	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	1.05	1.01	.97	1.02	.99	.95	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85														
2.0	.92	.85	.79	.90	.84	.78	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71														
3.0	.80	.72	.66	.79	.71	.66	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60														
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.63	.58	.53	.51														
5.0	.64	.55	.48	.63	.54	.48	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44														
6.0	.57	.48	.42	.56	.48	.42	.55	.47	.41	.53	.46	.41	.51	.45	.41	.39														
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34														
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30														
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.33	.29	.27														
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.38	.31	.27	.37	.31	.26	.25														



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		Shielding Angle:	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.293	.167	.053	.286	.163	.052	.273	.156	.050	.261	.150	.048	.249	.145	.047	
2.0	.281	.154	.047	.275	.151	.047	.263	.146	.045	.252	.142	.044	.243	.137	.043	
3.0	.263	.140	.042	.257	.138	.041	.247	.134	.041	.238	.130	.040	.229	.127	.039	
4.0	.244	.127	.037	.239	.125	.037	.230	.122	.036	.222	.119	.036	.214	.116	.035	
5.0	.227	.116	.033	.223	.114	.033	.214	.112	.033	.207	.109	.032	.200	.107	.032	
6.0	.211	.106	.030	.207	.105	.030	.200	.103	.030	.193	.100	.030	.187	.098	.029	
7.0	.197	.097	.028	.194	.096	.027	.187	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.430m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					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	2H	27.8	29.3	28.0	29.5	29.7	28.0	29.5	28.2	29.7	29.9
	3H	29.0	30.4	29.3	30.6	30.8	29.3	30.6	29.6	30.9	31.1
	4H	29.3	30.6	29.6	30.9	31.1	29.7	31.0	30.0	31.2	31.5
	6H	29.4	30.7	29.7	30.9	31.2	29.8	31.1	30.2	31.3	31.6
	8H	29.4	30.6	29.8	30.9	31.2	29.8	31.0	30.2	31.3	31.6
	12H	29.4	30.5	29.7	30.8	31.1	29.8	31.0	30.2	31.3	31.6
4H	2H	28.3	29.7	28.7	29.9	30.2	28.5	29.8	28.8	30.0	30.3
	3H	29.7	30.8	30.0	31.1	31.4	29.9	31.1	30.3	31.4	31.7
	4H	30.1	31.1	30.5	31.5	31.8	30.4	31.5	30.8	31.8	32.1
	6H	30.3	31.2	30.7	31.6	31.9	30.7	31.6	31.1	31.9	32.3
	8H	30.3	31.2	30.7	31.5	31.9	30.7	31.6	31.1	31.9	32.3
	12H	30.3	31.1	30.7	31.5	31.9	30.7	31.5	31.1	31.9	32.3
8H	4H	30.3	31.1	30.7	31.5	31.9	30.5	31.4	31.0	31.8	32.2
	6H	30.5	31.2	31.0	31.6	32.0	30.9	31.6	31.3	32.0	32.4
	8H	30.6	31.2	31.0	31.6	32.1	30.9	31.6	31.4	32.0	32.4
	12H	30.6	31.1	31.0	31.5	32.0	31.0	31.5	31.4	31.9	32.4
12H	4H	30.2	31.0	30.7	31.4	31.8	30.5	31.3	30.9	31.7	32.1
	6H	30.5	31.1	31.0	31.6	32.0	30.9	31.5	31.3	31.9	32.4
	8H	30.6	31.1	31.0	31.5	32.0	30.9	31.5	31.4	31.9	32.4
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H		+ 0.3 / - 0.4					+ 0.3 / - 0.3				

CIE Pub.117, 22228 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.8$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

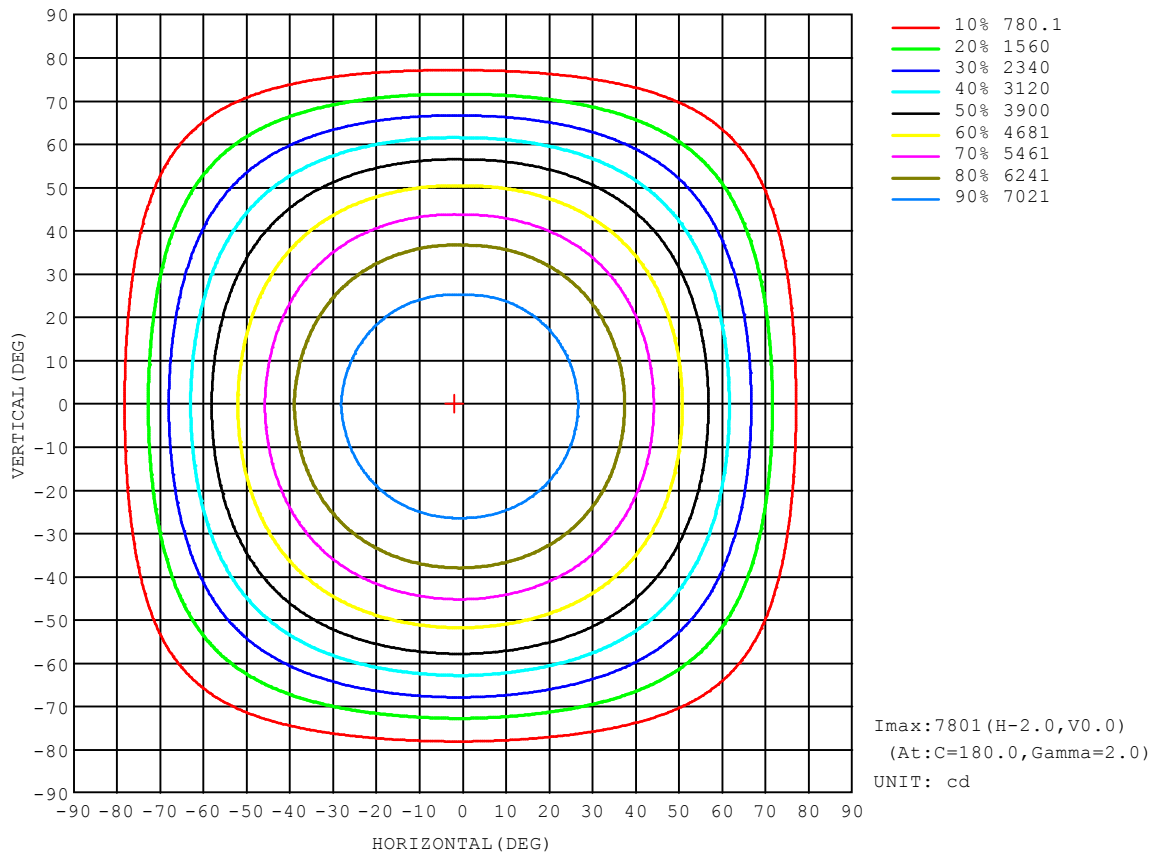
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	56	49	42
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	83	73	66	80	72	66	59
1.50	89	80	73	87	79	72	84	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 7.430m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

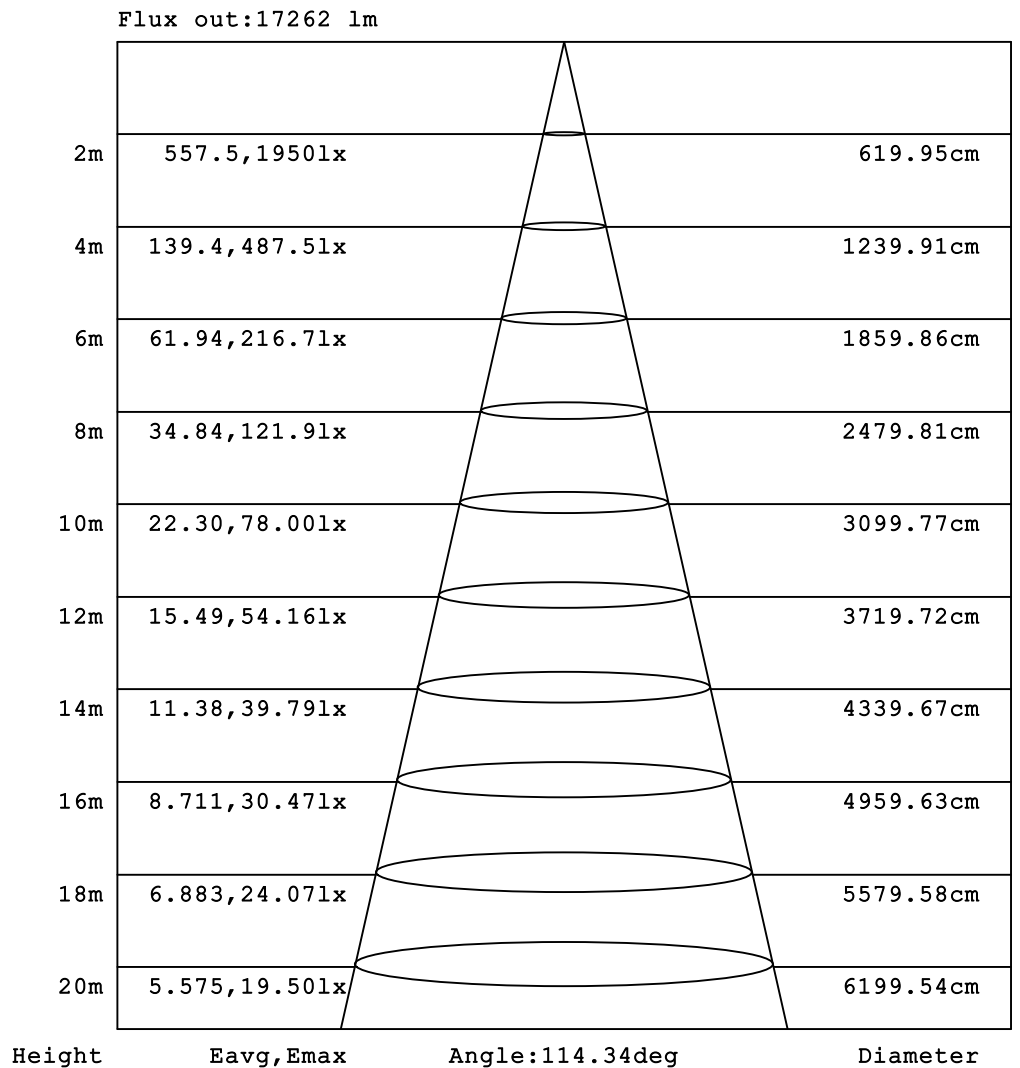


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



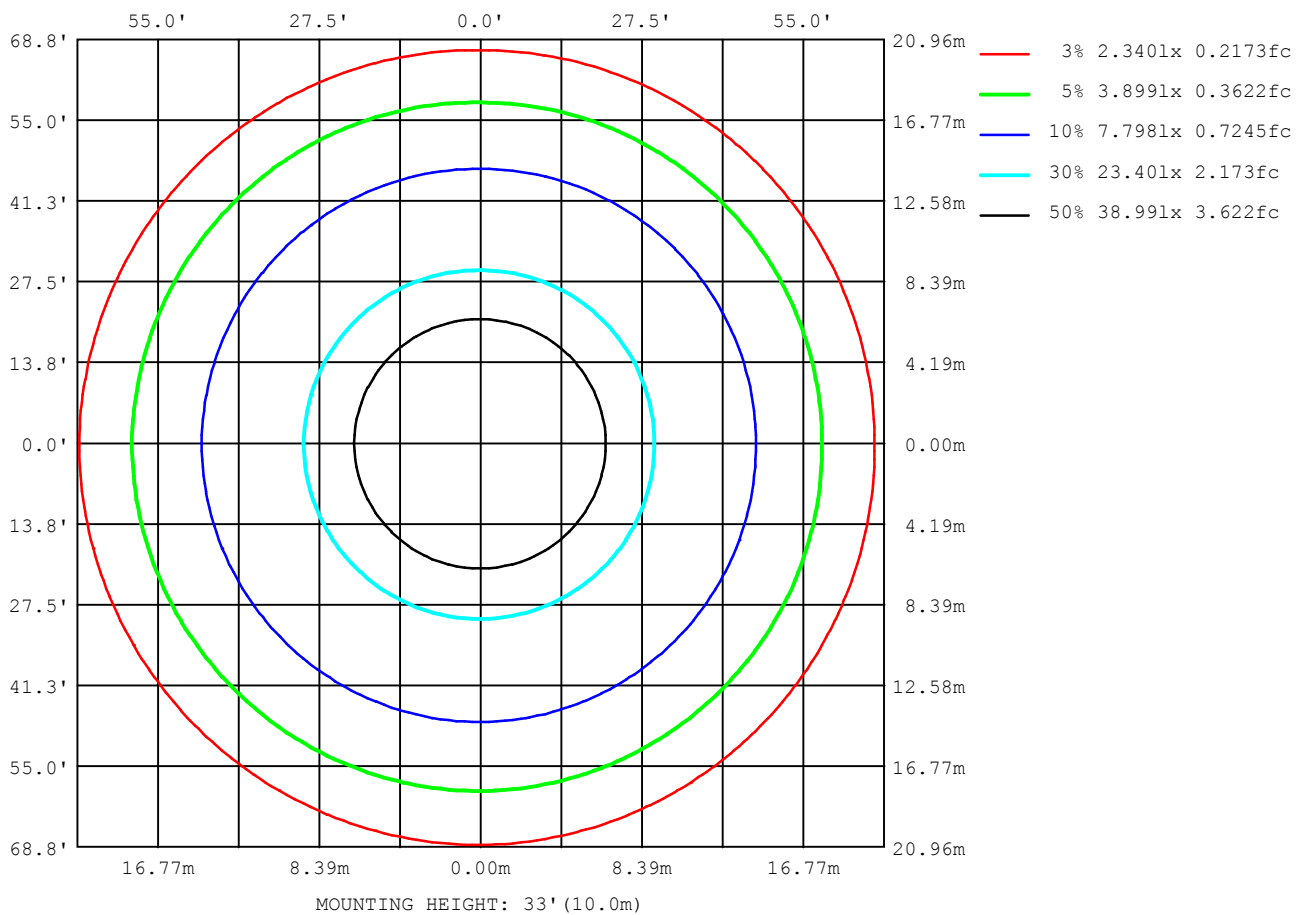
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.430m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.430m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.10V I:0.9260A P:201.30W PF:0.9920 Freq:50.00Hz Lamp Flux:22227.8x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

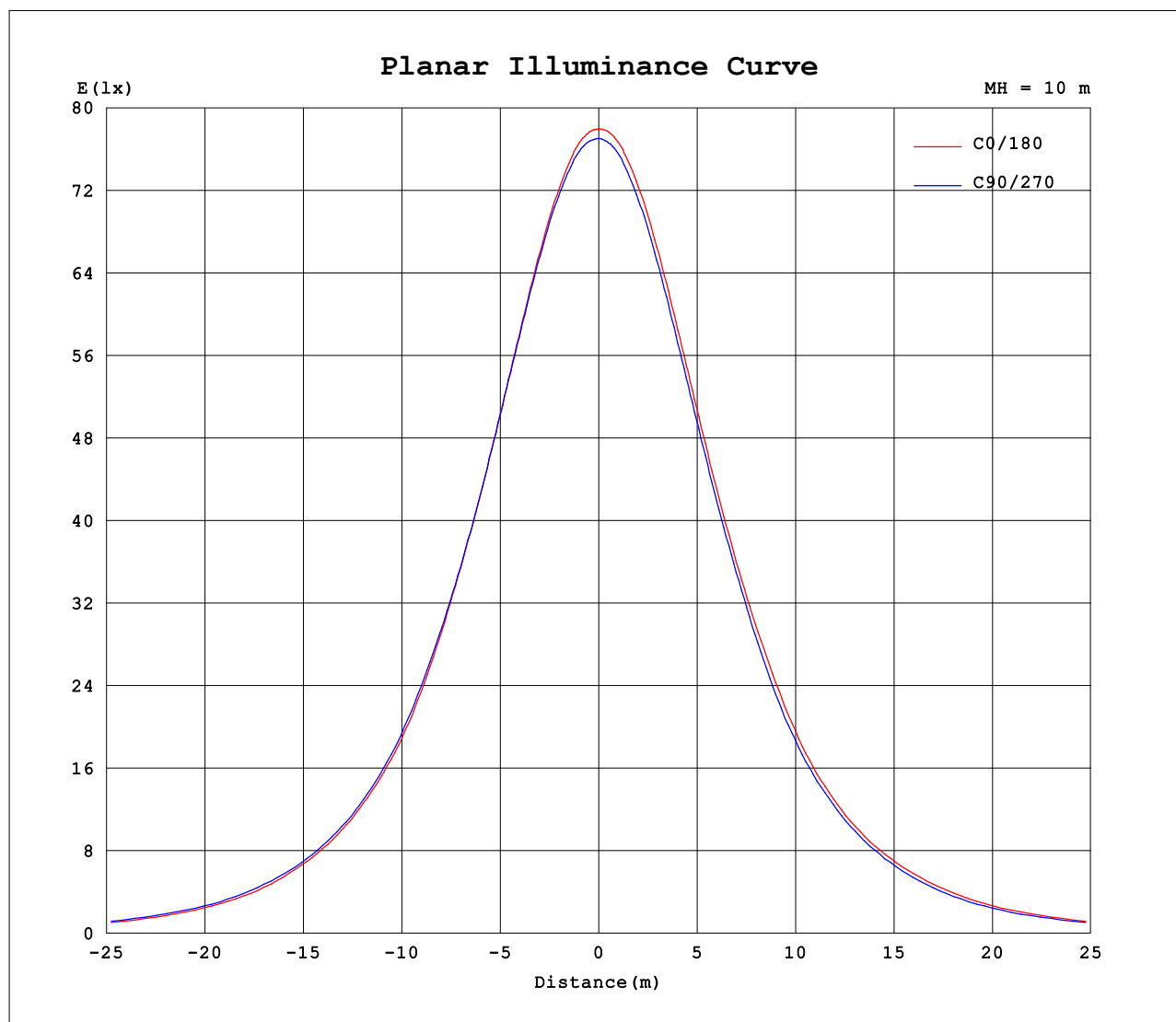
AvgL	cd/m2
L_0~180 (65) av	63898
L_0~180 (75) av	44014
L_0~180 (85) av	18102
L_90~270 (65) av	63516
L_90~270 (75) av	43988
L_90~270 (85) av	16843
L_45 (65) av	63806
L_45 (75) av	44216
L_45 (85) av	17537

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 7.430m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:7.430m [K=1.0000]
Remarks:

```