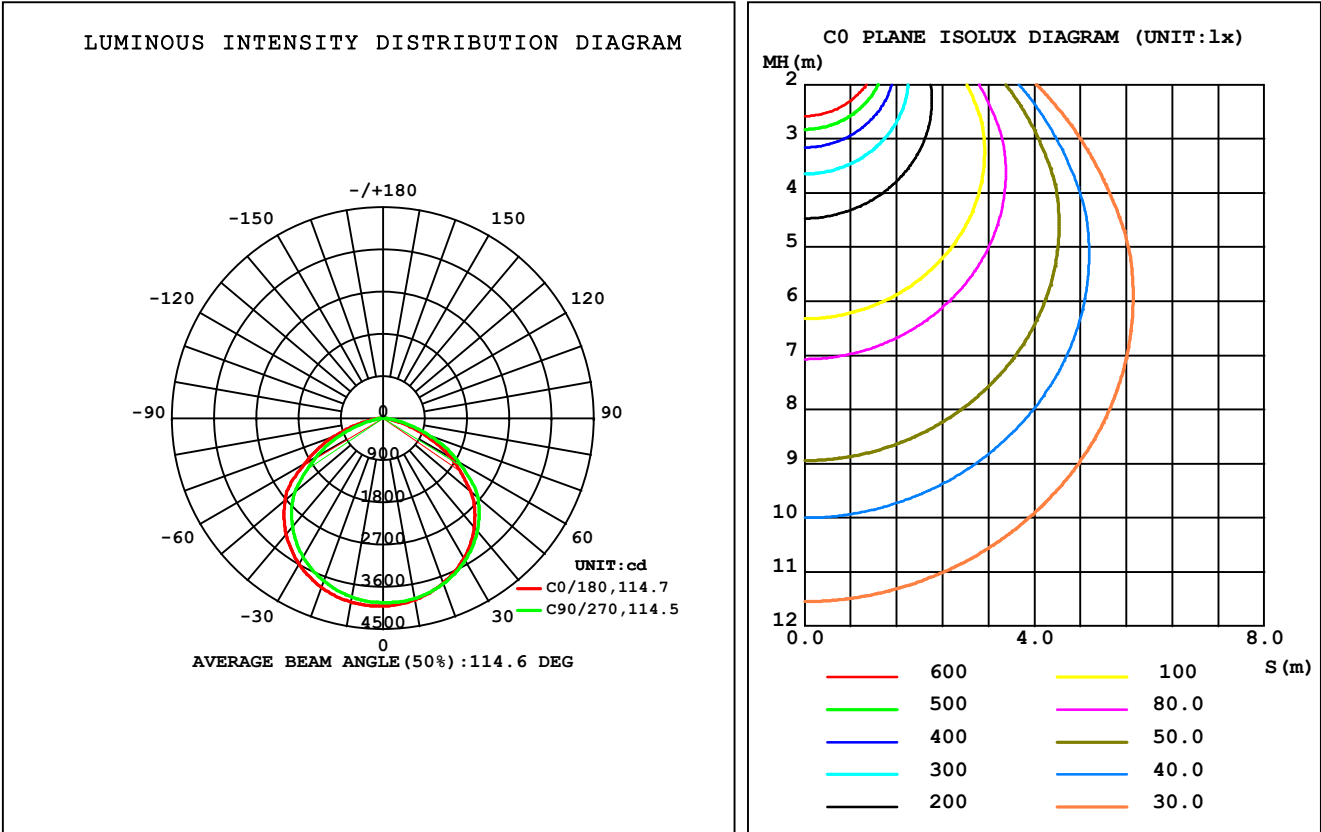


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 112.77 lm/W
MODEL		I _{max} (cd)	4006	S/MH (C0/180)	1.33	
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.29	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	11401	η UP, DN (C0-180)	0.0, 49.5	
NOMINAL FLUX (lm)	11400.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.50	



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-09-04

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	3933	3903	3977	3873					0- 10	376.7	376.7	3.3,3.3
20	3749	3758	3842	3698					10- 20	1089	1466	12.9,12.9
30	3451	3504	3589	3417					20- 30	1679	3144	27.6,27.6
40	3031	3135	3225	3012					30- 40	2072	5216	45.8,45.8
50	2447	2652	2736	2469					40- 50	2203	7419	65.1,65.1
60	1658	1861	1930	1641					50- 60	1952	9370	82.2,82.2
70	808.6	1016	1079	830.5					60- 70	1348	10719	94,94
80	153.6	271.5	315.3	177.6					70- 80	578.8	11298	99.1,99.1
90	29.04	30.15	47.48	41.82					80- 90	103.4	11401	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): 6319.8 lm

%lum = 55.4%

%lamp = 55.4%

Conical surface Flux(120deg): 9370.4 lm

%lum = 82.2%

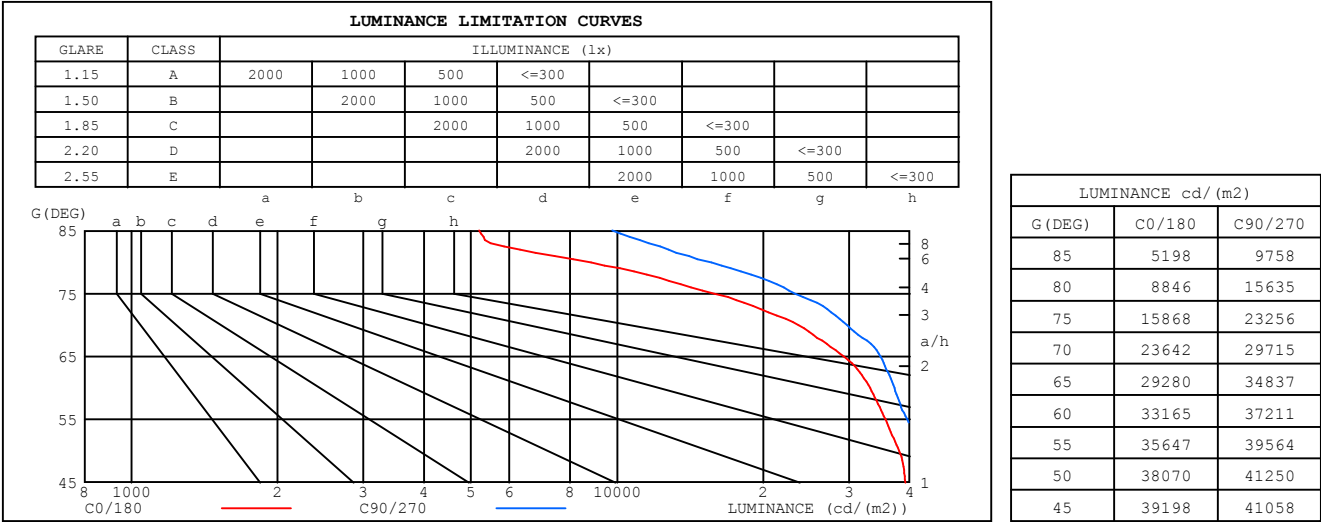
%lamp = 82.2%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



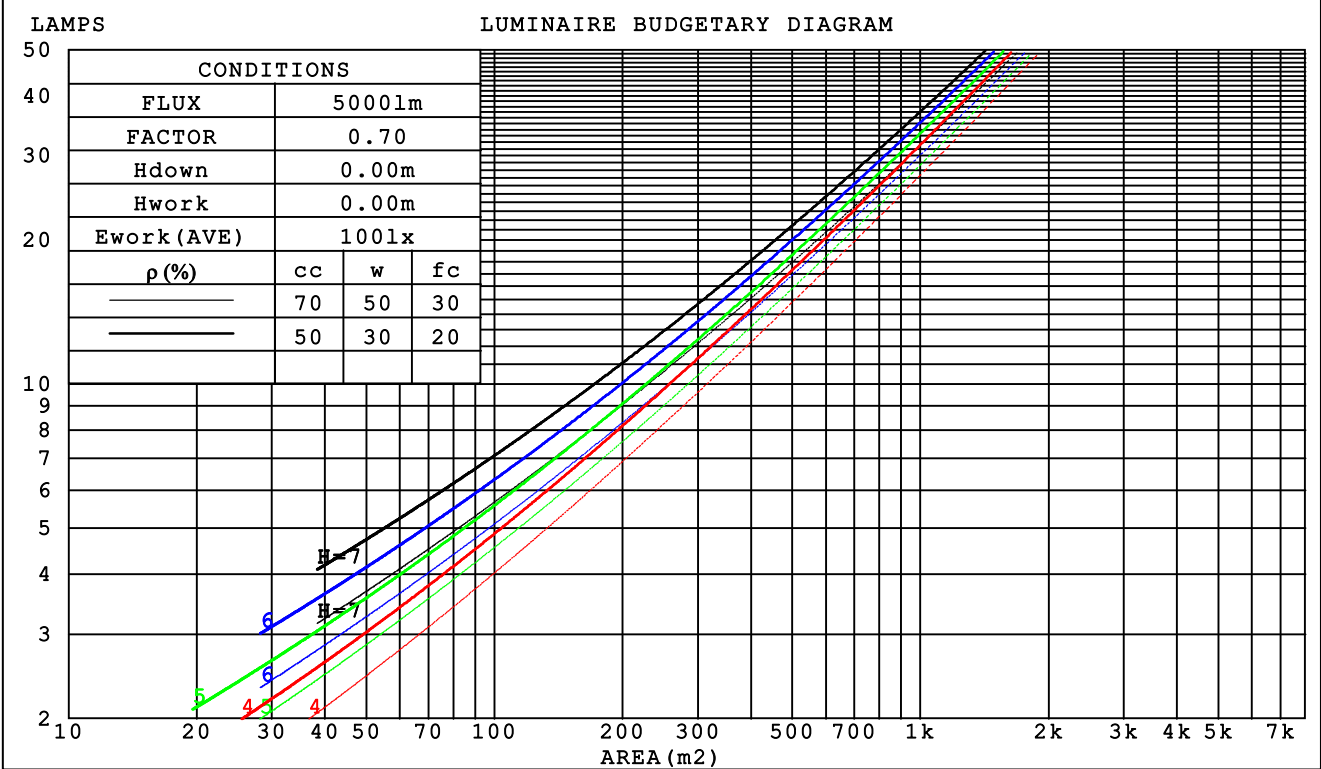
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 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	1.03	.99	.96	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85														
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.73	.71														
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60														
4.0	.71	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.51														
5.0	.64	.55	.48	.63	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.44														
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.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	.33	.43	.37	.32	.30														
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.34	.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: MEDIUM

Temperature:25.3DEG

Operators:YINQINYI

Test Date:2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 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	.290	.165	.052	.283	.162	.051	.270	.155	.049	.258	.149	.048	.247	.143	.046	
2.0	.279	.153	.047	.273	.150	.046	.261	.145	.045	.251	.141	.044	.241	.136	.043	
3.0	.261	.139	.042	.256	.137	.041	.246	.133	.040	.236	.129	.040	.227	.126	.039	
4.0	.243	.126	.037	.238	.125	.037	.229	.122	.036	.221	.119	.036	.213	.116	.035	
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.106	.032	
6.0	.211	.106	.030	.207	.104	.030	.200	.102	.030	.193	.100	.029	.187	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.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	.155	.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	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.046	.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: MEDIUM
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 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	25.3	26.8	25.6	27.0	27.2	25.7	27.2	26.0	27.4	27.6	
	3H	26.4	27.7	26.6	28.0	28.2	27.0	28.4	27.3	28.6	28.8
	4H	26.6	27.9	26.9	28.1	28.4	27.3	28.6	27.7	28.9	29.2
	6H	26.6	27.8	26.9	28.1	28.4	27.5	28.7	27.8	29.0	29.3
	8H	26.6	27.7	26.9	28.0	28.3	27.5	28.7	27.8	28.9	29.2
	12H	26.5	27.7	26.9	27.9	28.3	27.5	28.6	27.8	28.9	29.2
4H	2H	25.9	27.2	26.2	27.5	27.7	26.2	27.5	26.5	27.8	28.0
	3H	27.0	28.2	27.4	28.5	28.8	27.6	28.7	27.9	29.0	29.3
	4H	27.3	28.4	27.7	28.7	29.0	28.0	29.1	28.4	29.4	29.7
	6H	27.4	28.3	27.8	28.7	29.0	28.2	29.1	28.6	29.5	29.9
	8H	27.4	28.2	27.8	28.6	29.0	28.3	29.1	28.7	29.5	29.9
	12H	27.4	28.1	27.8	28.5	28.9	28.3	29.0	28.7	29.4	29.8
8H	4H	27.4	28.3	27.9	28.7	29.0	28.1	28.9	28.5	29.3	29.7
	6H	27.6	28.3	28.0	28.7	29.1	28.4	29.1	28.8	29.5	29.9
	8H	27.6	28.2	28.0	28.6	29.1	28.4	29.0	28.9	29.5	29.9
	12H	27.6	28.1	28.1	28.6	29.0	28.4	29.0	28.9	29.4	29.9
12H	4H	27.4	28.2	27.8	28.6	29.0	28.1	28.8	28.5	29.2	29.6
	6H	27.6	28.2	28.0	28.6	29.1	28.3	29.0	28.8	29.4	29.8
	8H	27.6	28.1	28.1	28.6	29.0	28.4	28.9	28.9	29.4	29.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3					
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.4					
2.0H	+ 0.4 / - 0.5					+ 0.5 / - 0.4					

CIE Pub.117, 11401 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 8.5$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

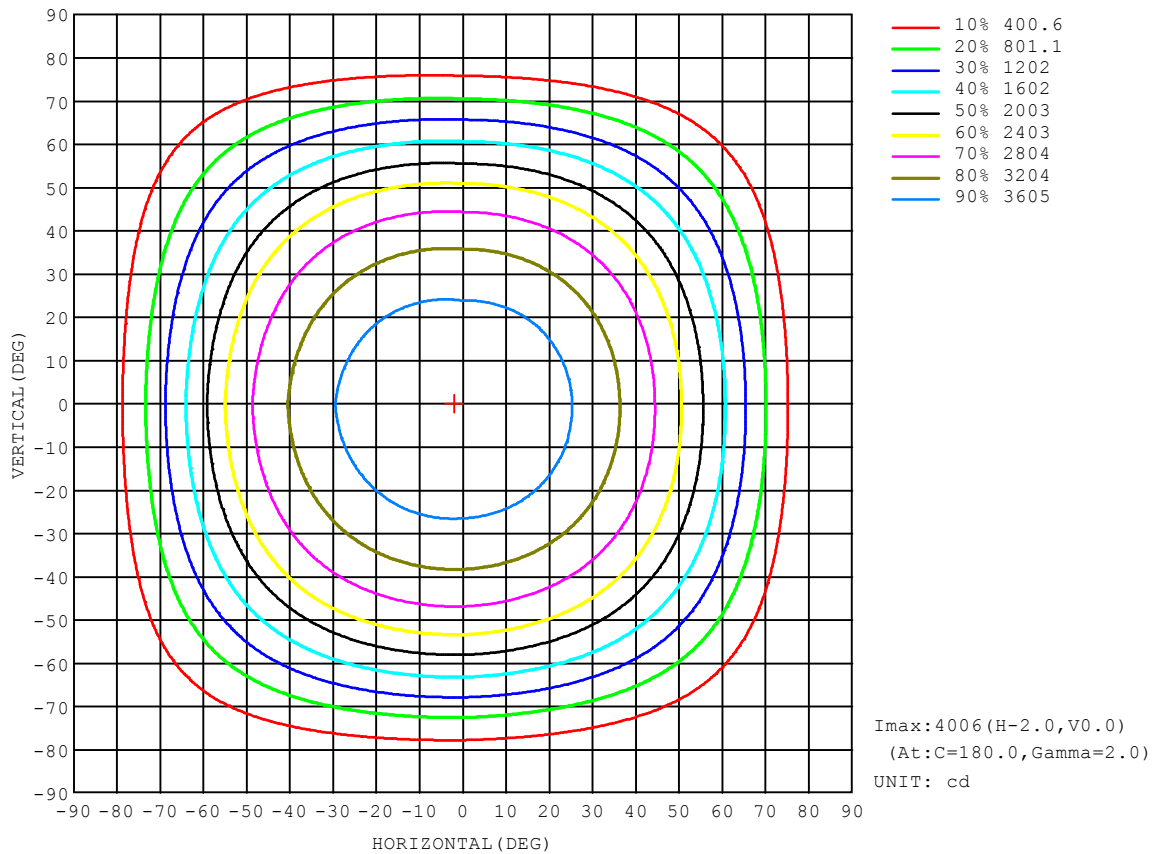
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	57	49	67	56	49	65	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	85	79	72
2.50	100	93	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	101	97	93	85
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: MEDIUM
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

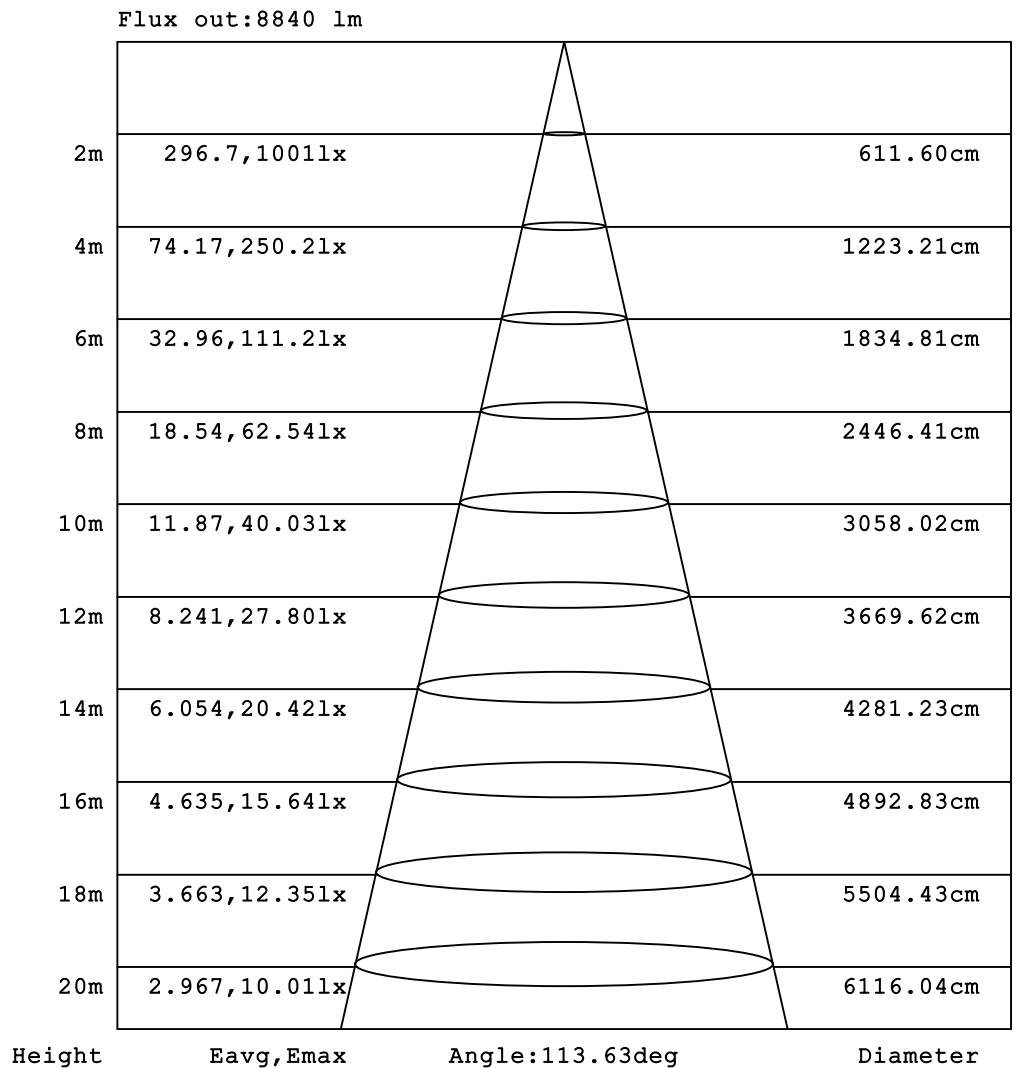


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



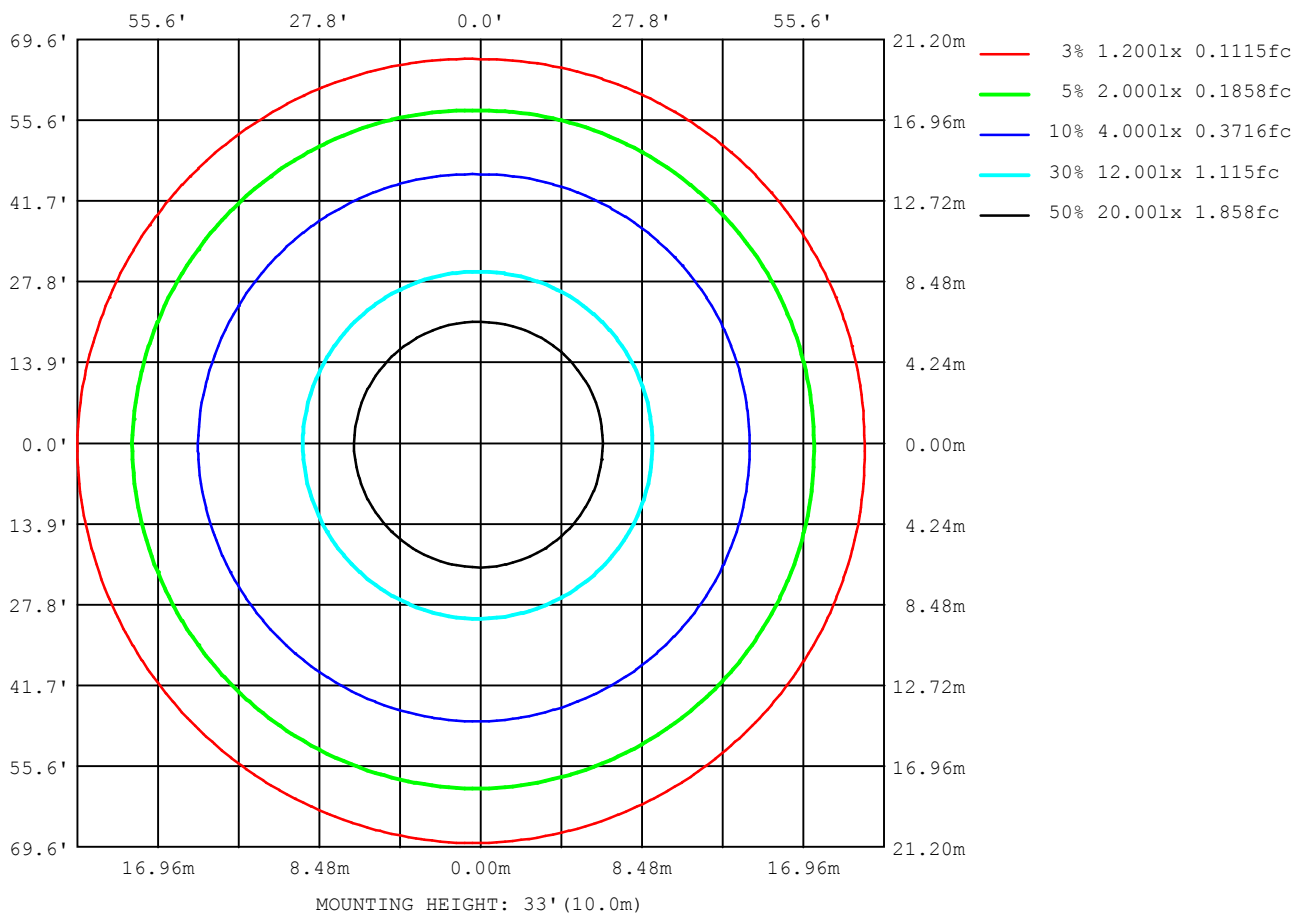
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-09-04

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:220.30V I:0.4620A P:101.10W PF:0.9910 Freq:50.00Hz Lamp Flux:11400.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

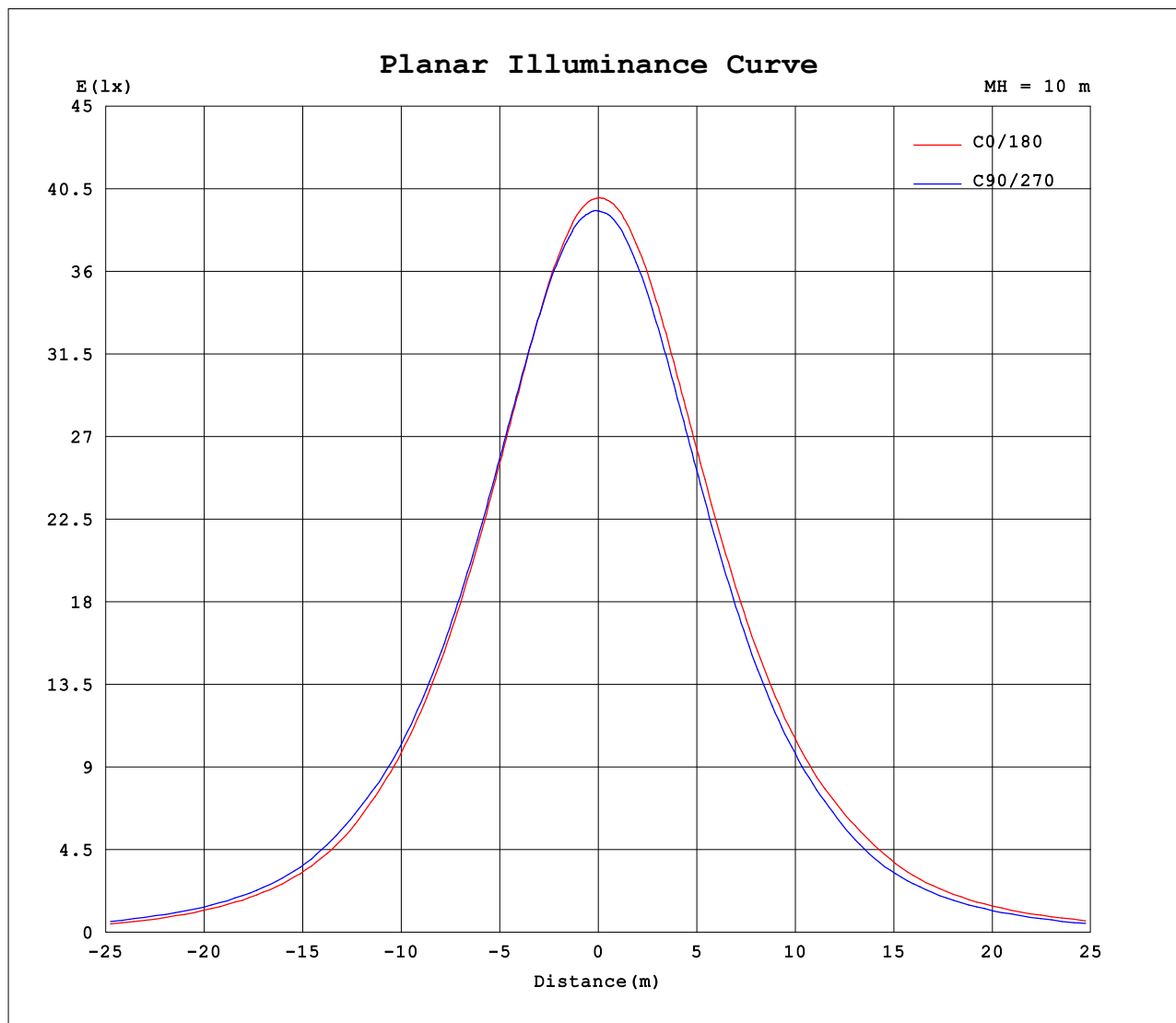
AvgL	cd/m2
L_0~180 (65) av	32692
L_0~180 (75) av	20826
L_0~180 (85) av	9213
L_90~270 (65) av	32133
L_90~270 (75) av	20292
L_90~270 (85) av	8449
L_45 (65) av	32556
L_45 (75) av	20802
L_45 (85) av	8987

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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: MEDIUM
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-09-04

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:

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