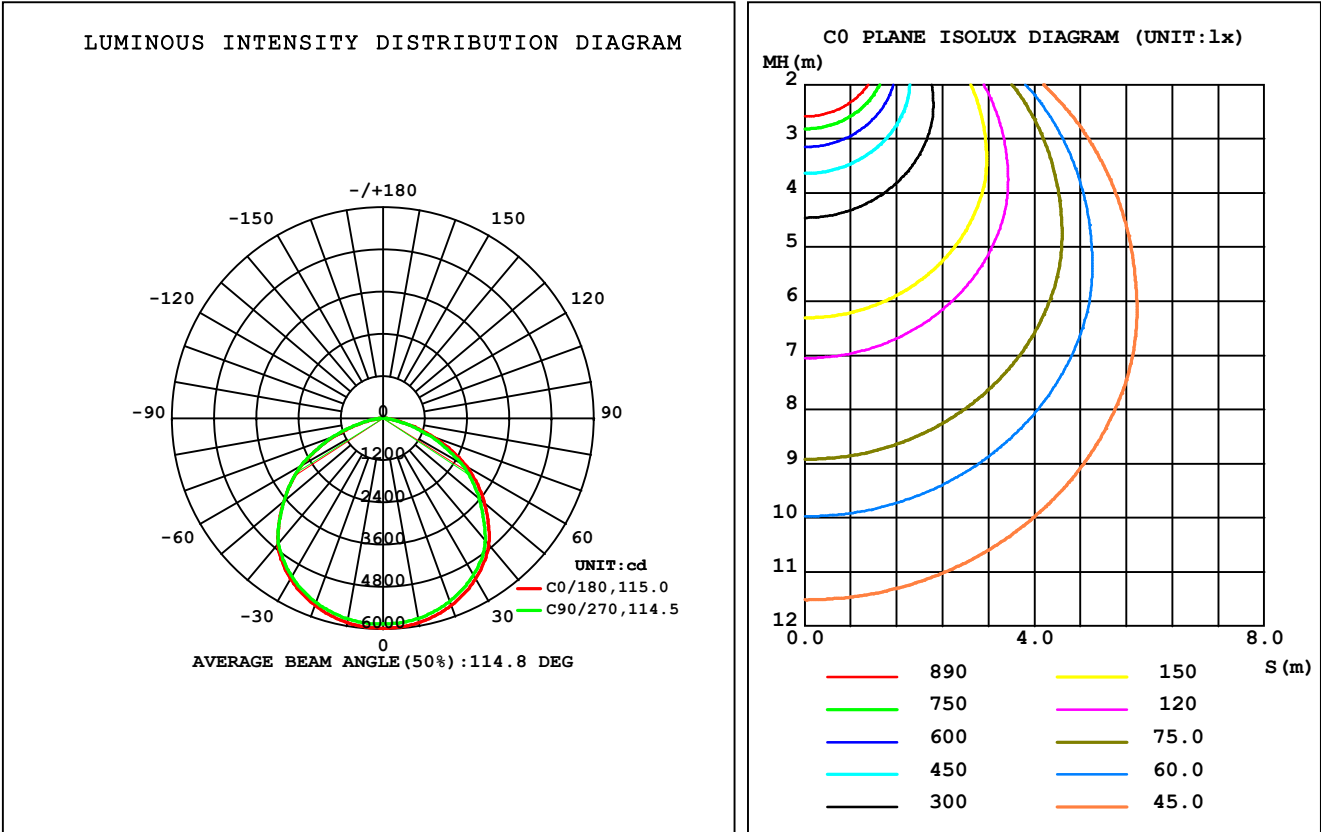


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.30V I:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 111.66 lm/W
MODEL		I _{max} (cd)	5967	S/MH (C0/180)	1.31	
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.32	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	16949	η UP, DN (C0-180)	0.0, 49.8	
NOMINAL FLUX (lm)	16949.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.2	
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: MEDIUM
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-08-19

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	5899	5781	5900	5796					0- 10	561.1	561.1	3.31,3.31
20	5669	5542	5666	5576					10- 20	1624	2185	12.9,12.9
30	5272	5148	5273	5197					20- 30	2508	4693	27.7,27.7
40	4681	4526	4660	4640					30- 40	3102	7795	46,46
50	3773	3582	3699	3690					40- 50	3213	11008	64.9,64.9
60	2755	2569	2677	2698					50- 60	2855	13864	81.8,81.8
70	1499	1330	1407	1484					60- 70	2024	15888	93.7,93.7
80	376.2	318.5	353.3	410.8					70- 80	902.1	16790	99.1,99.1
90	43.00	42.70	64.32	62.23					80- 90	159.3	16949	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): 9424.1 lm

%lum = 55.6%

%lamp = 55.6%

Conical surface Flux(120deg): 13864 lm

%lum = 81.8%

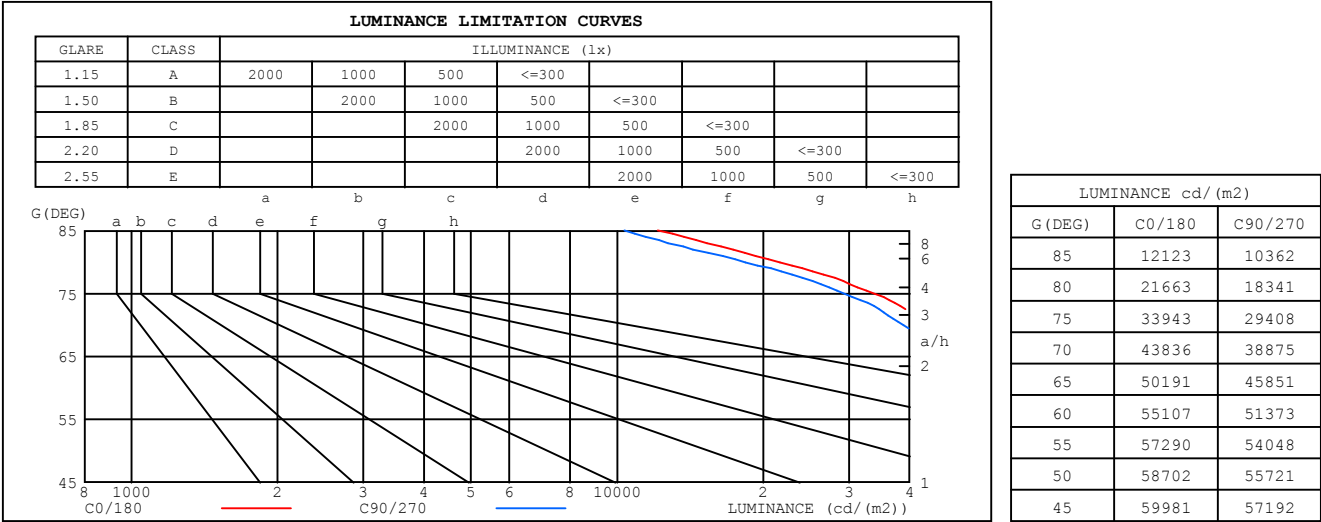
%lamp = 81.8%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



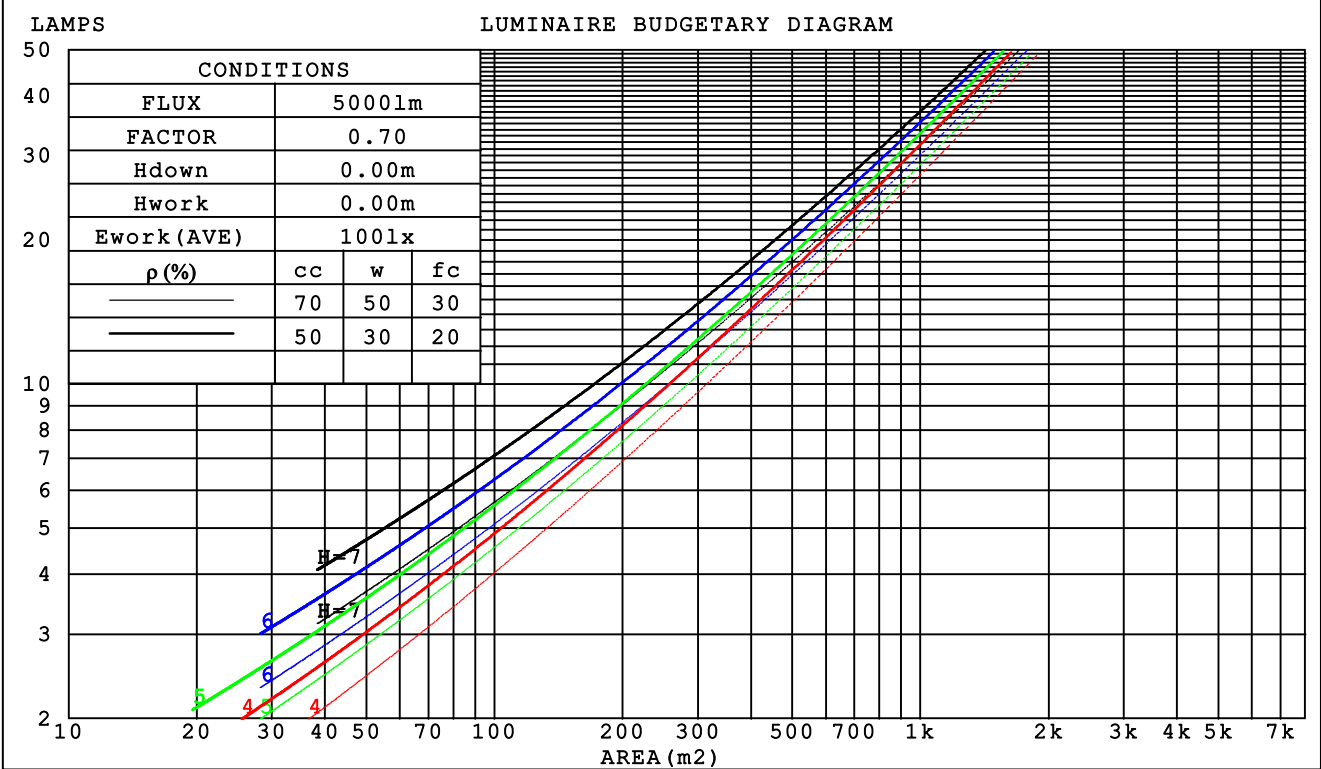
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 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	.94	.92	.90	.91	.89	.87	.85														
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.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	.46	.44														
6.0	.57	.48	.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	.35	.29	.41	.34	.29	.40	.34	.29	.27														
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.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:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 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	.292	.166	.053	.285	.162	.052	.271	.156	.050	.259	.150	.048	.248	.144	.046	
2.0	.280	.153	.047	.274	.151	.046	.262	.146	.045	.251	.141	.044	.242	.137	.043	
3.0	.262	.139	.042	.257	.137	.041	.246	.133	.041	.237	.130	.040	.228	.126	.039	
4.0	.244	.127	.037	.239	.125	.037	.230	.122	.036	.221	.119	.036	.213	.116	.035	
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.107	.032	
6.0	.211	.106	.030	.207	.105	.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	.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	.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:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 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	27.0	28.5	27.3	28.7	28.9	26.8	28.3	27.0	28.5	28.7
	3H	28.3	29.7	28.6	29.9	30.1	27.9	29.3	28.2	29.5	29.8
	4H	28.6	29.9	28.9	30.2	30.5	28.2	29.5	28.5	29.8	30.1
	6H	28.8	30.0	29.1	30.3	30.5	28.3	29.6	28.7	29.8	30.1
	8H	28.8	29.9	29.1	30.2	30.5	28.3	29.5	28.7	29.8	30.1
	12H	28.7	29.9	29.1	30.2	30.5	28.3	29.4	28.6	29.7	30.0
4H	2H	27.5	28.8	27.8	29.1	29.4	27.3	28.7	27.7	28.9	29.2
	3H	28.9	30.1	29.3	30.4	30.7	28.6	29.8	29.0	30.1	30.4
	4H	29.4	30.4	29.7	30.7	31.1	29.0	30.1	29.4	30.4	30.7
	6H	29.6	30.5	30.0	30.8	31.2	29.2	30.1	29.6	30.5	30.8
	8H	29.6	30.4	30.0	30.8	31.2	29.2	30.0	29.6	30.4	30.8
	12H	29.6	30.4	30.0	30.7	31.1	29.2	30.0	29.6	30.3	30.7
8H	4H	29.5	30.3	29.9	30.7	31.1	29.2	30.0	29.6	30.4	30.8
	6H	29.7	30.4	30.2	30.8	31.3	29.4	30.1	29.8	30.5	30.9
	8H	29.8	30.4	30.2	30.8	31.3	29.4	30.0	29.9	30.5	30.9
	12H	29.8	30.3	30.3	30.8	31.3	29.4	30.0	29.9	30.4	30.9
12H	4H	29.4	30.2	29.9	30.6	31.0	29.1	29.9	29.6	30.3	30.7
	6H	29.7	30.3	30.2	30.8	31.2	29.4	30.0	29.8	30.4	30.9
	8H	29.8	30.3	30.3	30.8	31.2	29.4	30.0	29.9	30.4	30.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117, 16949 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.8$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

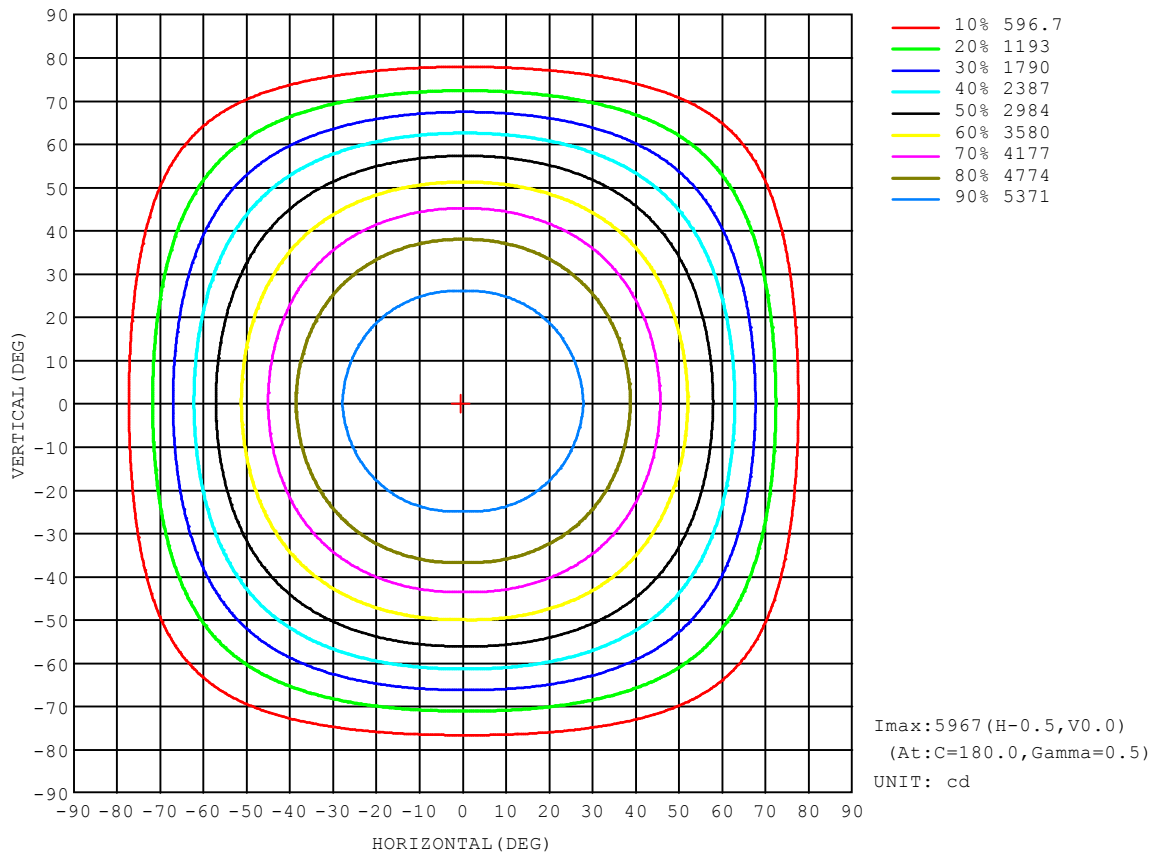
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	57	46	40	56	46	39	33
0.80	68	57	50	67	56	49	66	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	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	101	97	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: MEDIUM
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

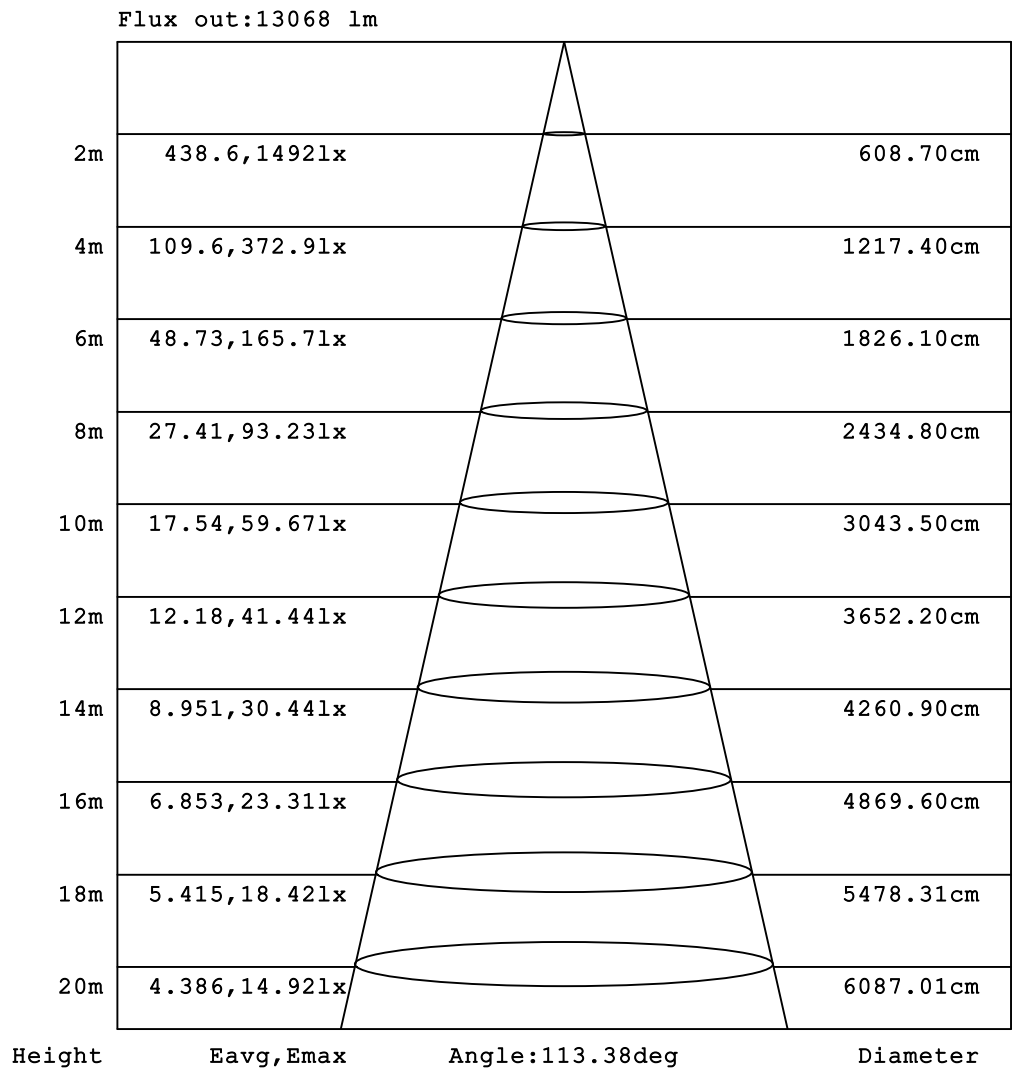


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



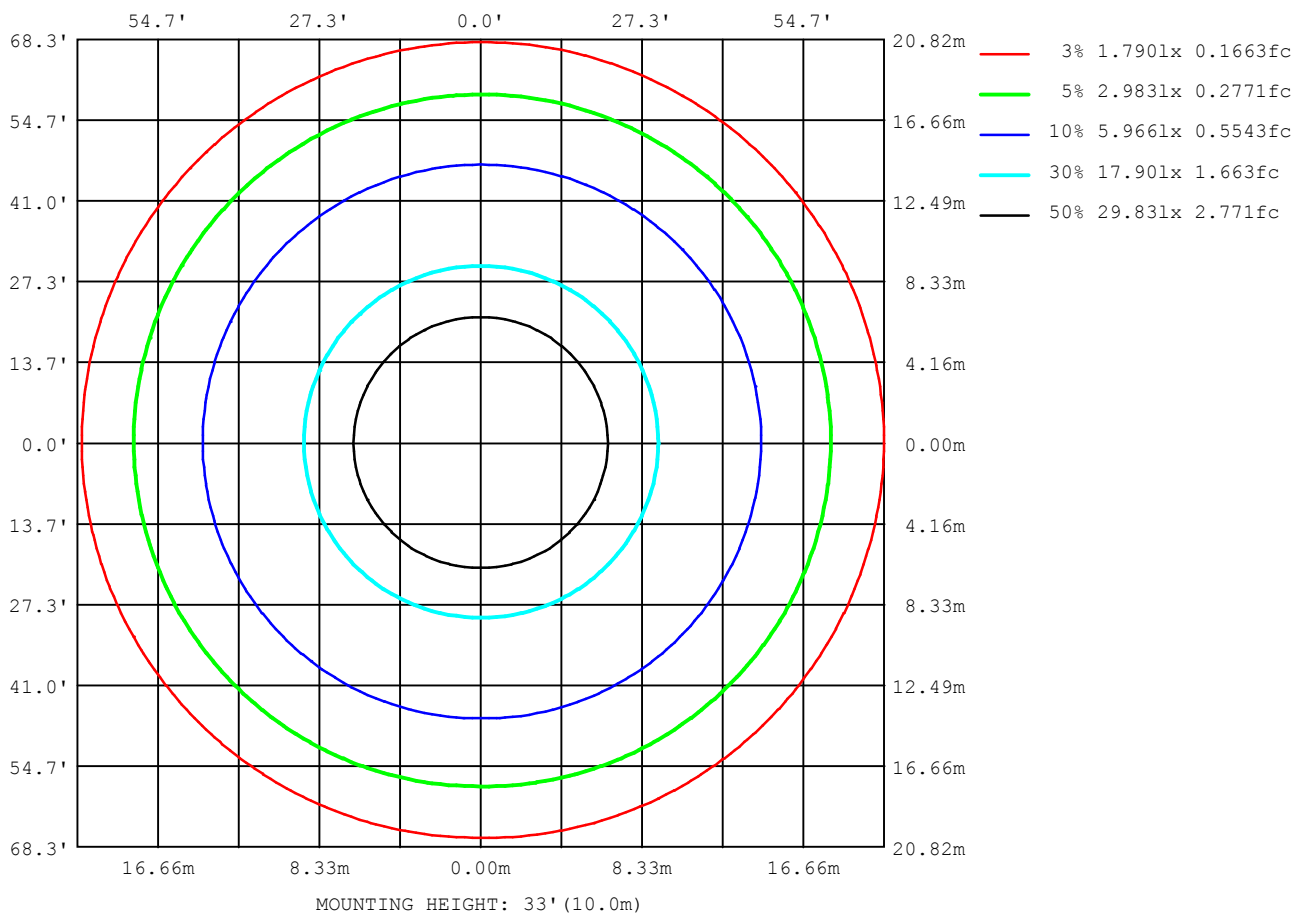
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 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: 2024-08-19

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:0.6940A P:151.80W PF:0.9920 Freq:50.00Hz Lamp Flux:16949.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

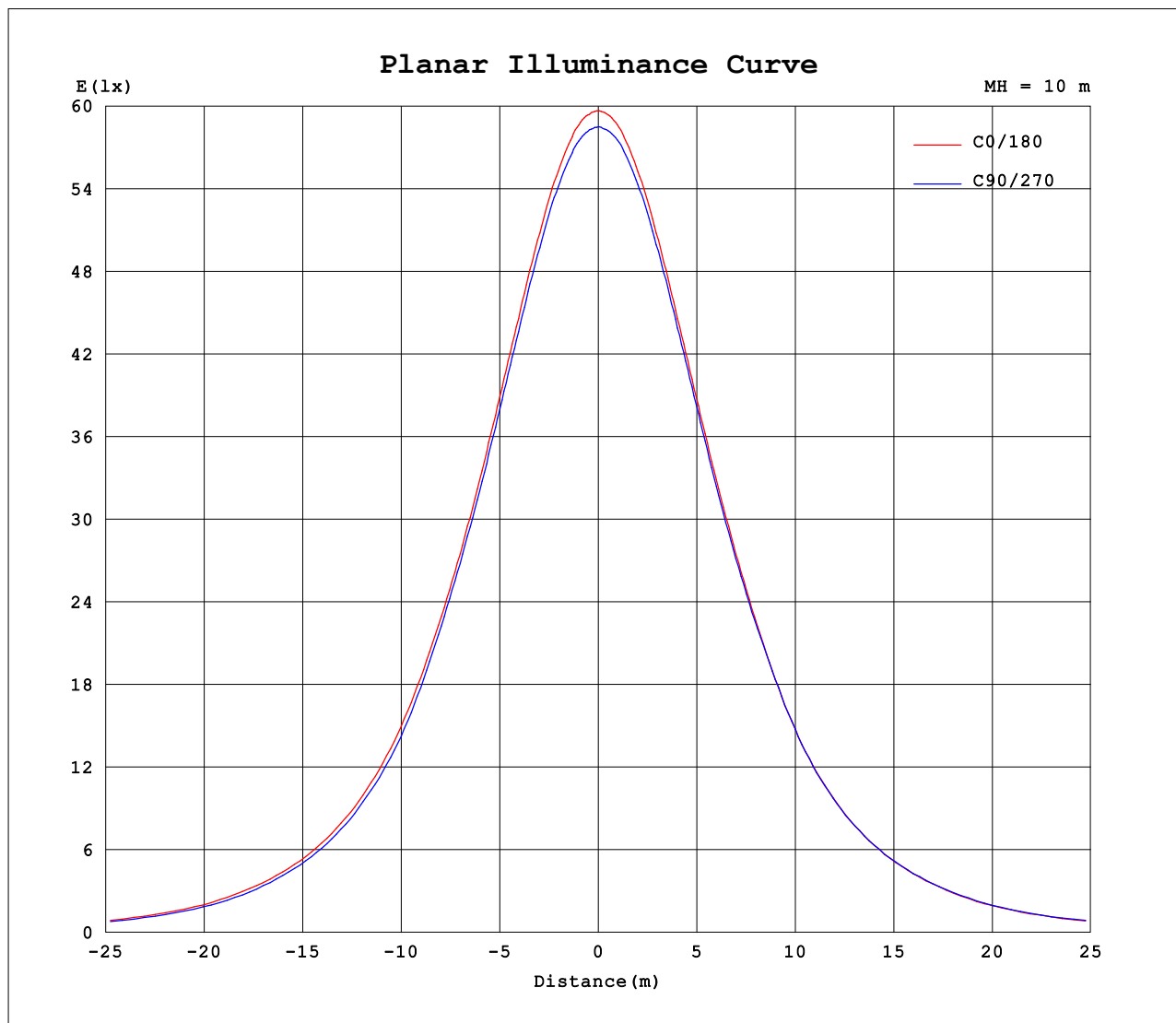
AvgL	cd/m2
L_0~180 (65) av	49144
L_0~180 (75) av	32731
L_0~180 (85) av	12645
L_90~270 (65) av	47368
L_90~270 (75) av	32011
L_90~270 (85) av	13238
L_45 (65) av	47968
L_45 (75) av	32205
L_45 (85) av	13048

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-08-19

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: 2024-08-19

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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