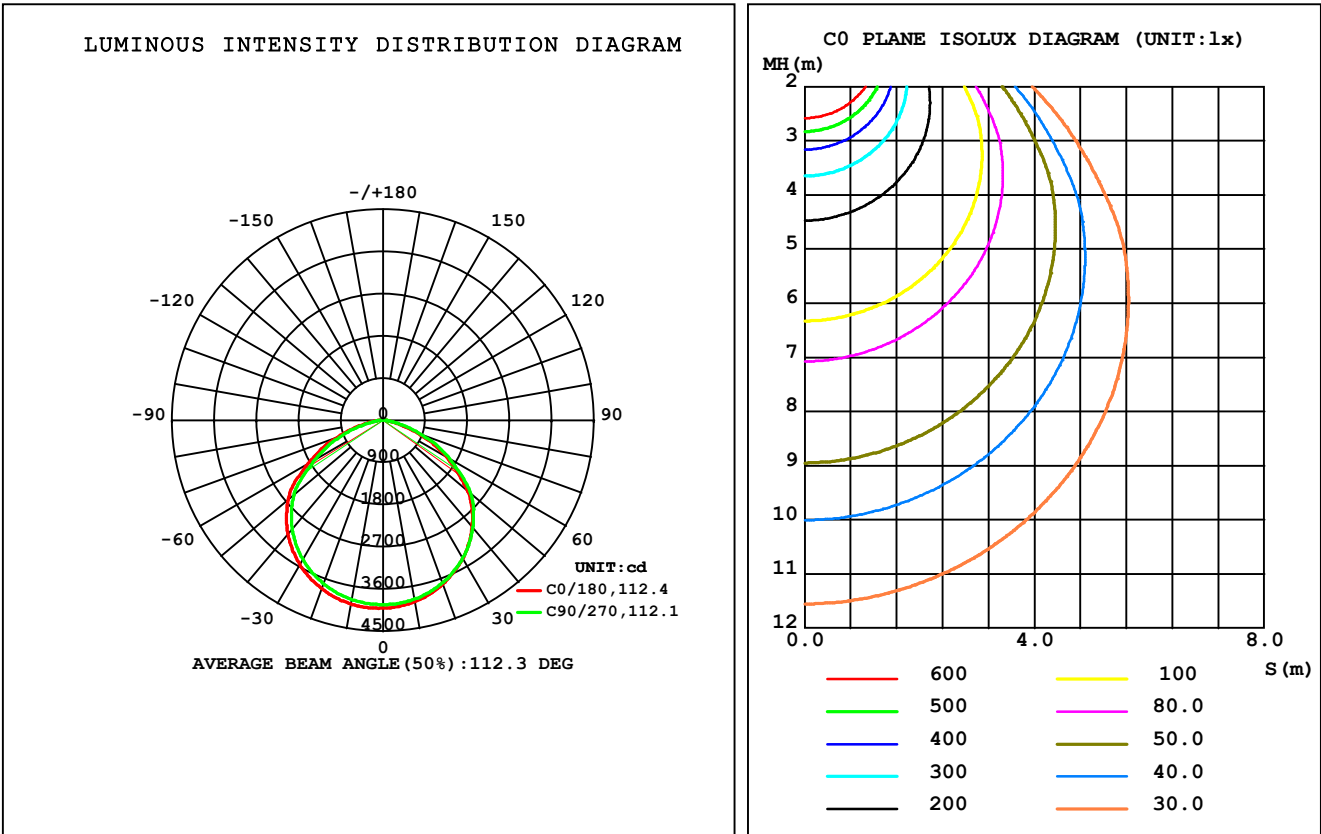


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 110.62 lm/W
MODEL		I _{max} (cd)	4011	S/MH (C0/180)	1.32	
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.30	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	11095	η UP, DN (C0-180)	0.0, 48.3	
NOMINAL FLUX (lm)	11095.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.7	
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: 2024-09-04

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	3928	3875	3979	3881					0- 10	376.5	376.5	3.39,3.39
20	3725	3699	3825	3713					10- 20	1085	1462	13.2,13.2
30	3406	3400	3555	3427					20- 30	1664	3125	28.2,28.2
40	2962	2985	3165	3023					30- 40	2037	5162	46.5,46.5
50	2364	2452	2650	2491					40- 50	2142	7304	65.8,65.8
60	1561	1638	1848	1674					50- 60	1868	9172	82.7,82.7
70	753.1	826.3	1015	892.2					60- 70	1268	10440	94.1,94.1
80	153.7	193.7	306.4	245.0					70- 80	545.8	10986	99,99
90	28.24	27.98	51.79	40.77					80- 90	109.4	11095	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): 6238.6 lm

%lum = 56.2%

%lamp = 56.2%

Conical surface Flux(120deg): 9172.2 lm

%lum = 82.7%

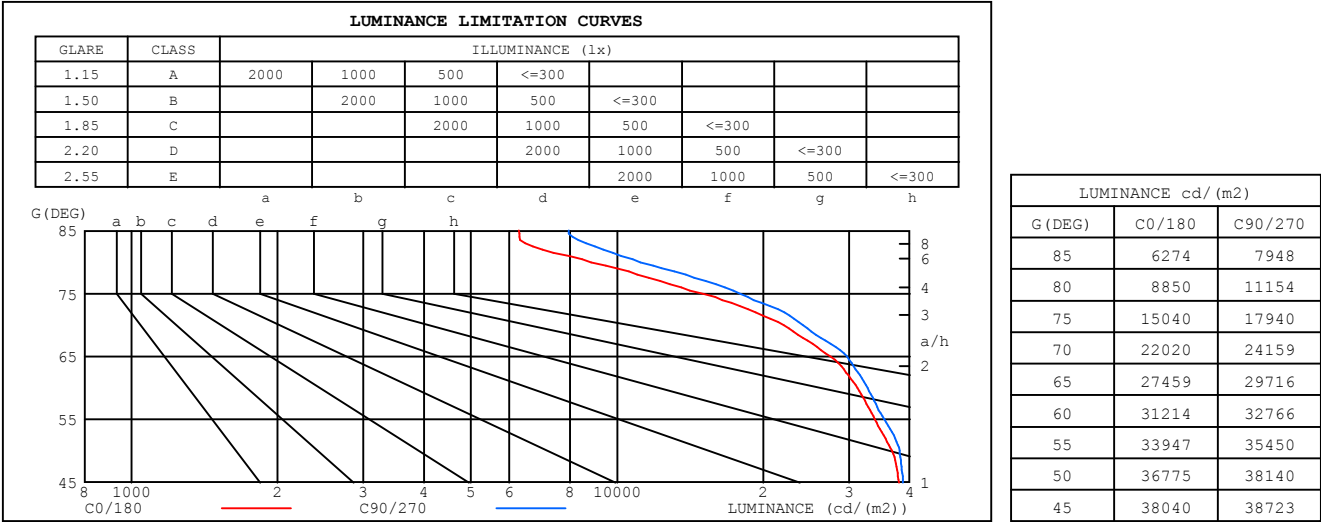
%lamp = 82.7%

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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



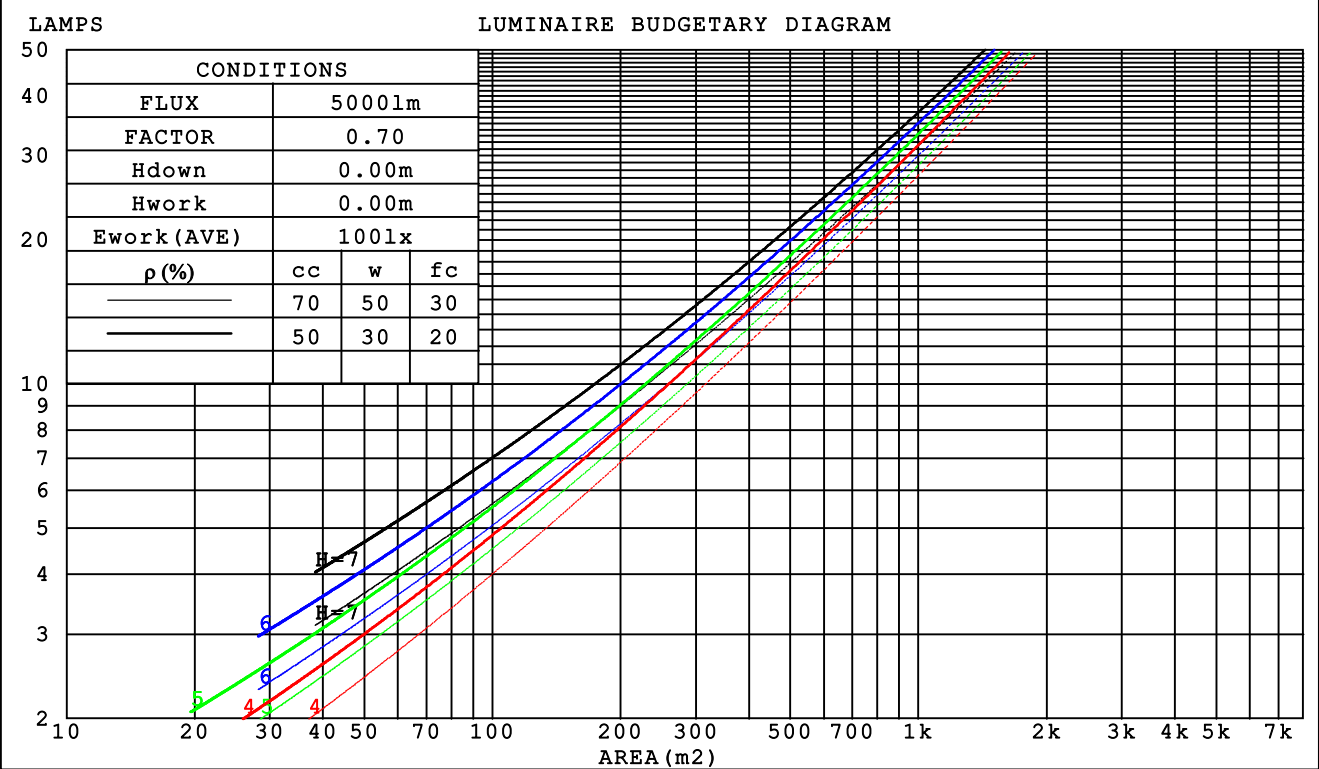
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 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	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.47	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.48	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.38	.52	.43	.37	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 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	.289	.164	.052	.282	.161	.051	.268	.154	.049	.256	.148	.047	.245	.142	.046	
2.0	.277	.152	.047	.271	.149	.046	.259	.144	.045	.249	.140	.044	.239	.135	.043	
3.0	.260	.138	.041	.254	.136	.041	.244	.132	.040	.235	.129	.039	.226	.125	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.219	.118	.036	.212	.115	.035	
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032	
6.0	.209	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.192	.096	.027	.186	.094	.027	.180	.092	.027	.174	.090	.027	
8.0	.183	.090	.025	.180	.089	.025	.174	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.146	.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	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.011	
3.0	.162	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.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	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 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	25.0	26.5	25.3	26.7	26.9	25.2	26.7	25.4	26.9	27.1	
	3H	26.0	27.4	26.3	27.6	27.8	26.2	27.6	26.5	27.8	28.1
	4H	26.2	27.5	26.5	27.7	28.0	26.5	27.8	26.8	28.0	28.3
	6H	26.2	27.4	26.5	27.7	28.0	26.6	27.8	26.9	28.1	28.3
	8H	26.2	27.4	26.5	27.6	27.9	26.6	27.7	26.9	28.0	28.3
	12H	26.1	27.3	26.5	27.6	27.9	26.5	27.7	26.9	28.0	28.3
4H	2H	25.5	26.8	25.8	27.1	27.3	25.6	26.9	25.9	27.2	27.4
	3H	26.6	27.7	26.9	28.0	28.3	26.8	27.9	27.2	28.2	28.5
	4H	26.9	27.9	27.2	28.2	28.5	27.1	28.2	27.5	28.5	28.8
	6H	26.9	27.9	27.3	28.2	28.6	27.3	28.2	27.7	28.5	28.9
	8H	26.9	27.8	27.3	28.2	28.5	27.3	28.1	27.7	28.5	28.9
	12H	26.9	27.7	27.3	28.1	28.5	27.3	28.1	27.7	28.4	28.8
8H	4H	26.9	27.8	27.3	28.2	28.5	27.2	28.1	27.6	28.4	28.8
	6H	27.1	27.8	27.5	28.2	28.6	27.4	28.1	27.8	28.5	28.9
	8H	27.1	27.7	27.5	28.1	28.6	27.4	28.0	27.9	28.5	28.9
	12H	27.1	27.6	27.6	28.1	28.5	27.4	28.0	27.9	28.4	28.9
12H	4H	26.9	27.7	27.3	28.1	28.5	27.2	28.0	27.6	28.3	28.7
	6H	27.1	27.7	27.5	28.1	28.6	27.4	28.0	27.8	28.4	28.9
	8H	27.1	27.6	27.6	28.1	28.5	27.4	28.0	27.9	28.4	28.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3					
1.5H	+ 0.2 / - 0.5					+ 0.2 / - 0.5					
2.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.5					

CIE Pub.117, 11095 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 8.4$)
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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

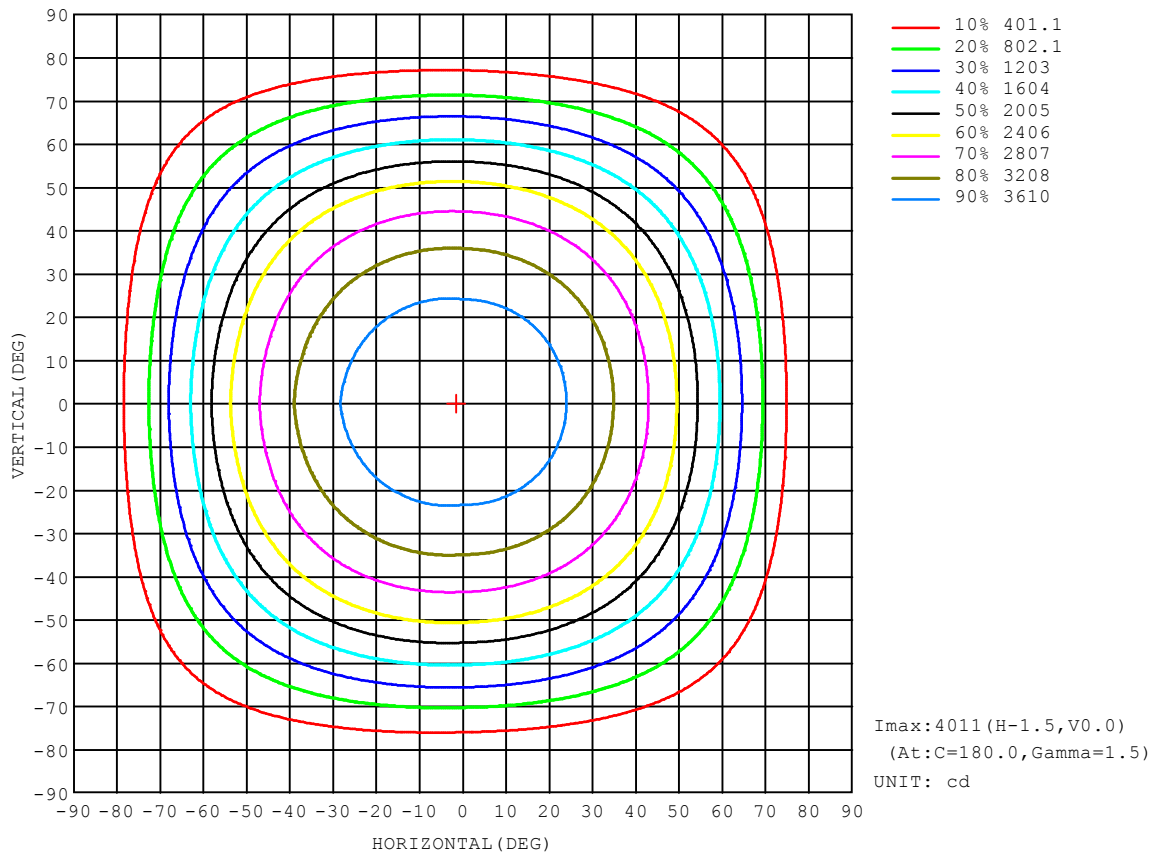
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	49	43
1.00	77	67	59	76	66	59	74	67	59	52
1.25	85	74	68	83	74	67	81	72	66	59
1.50	90	80	73	88	79	73	85	77	72	65
2.00	96	88	82	95	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	100	103	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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

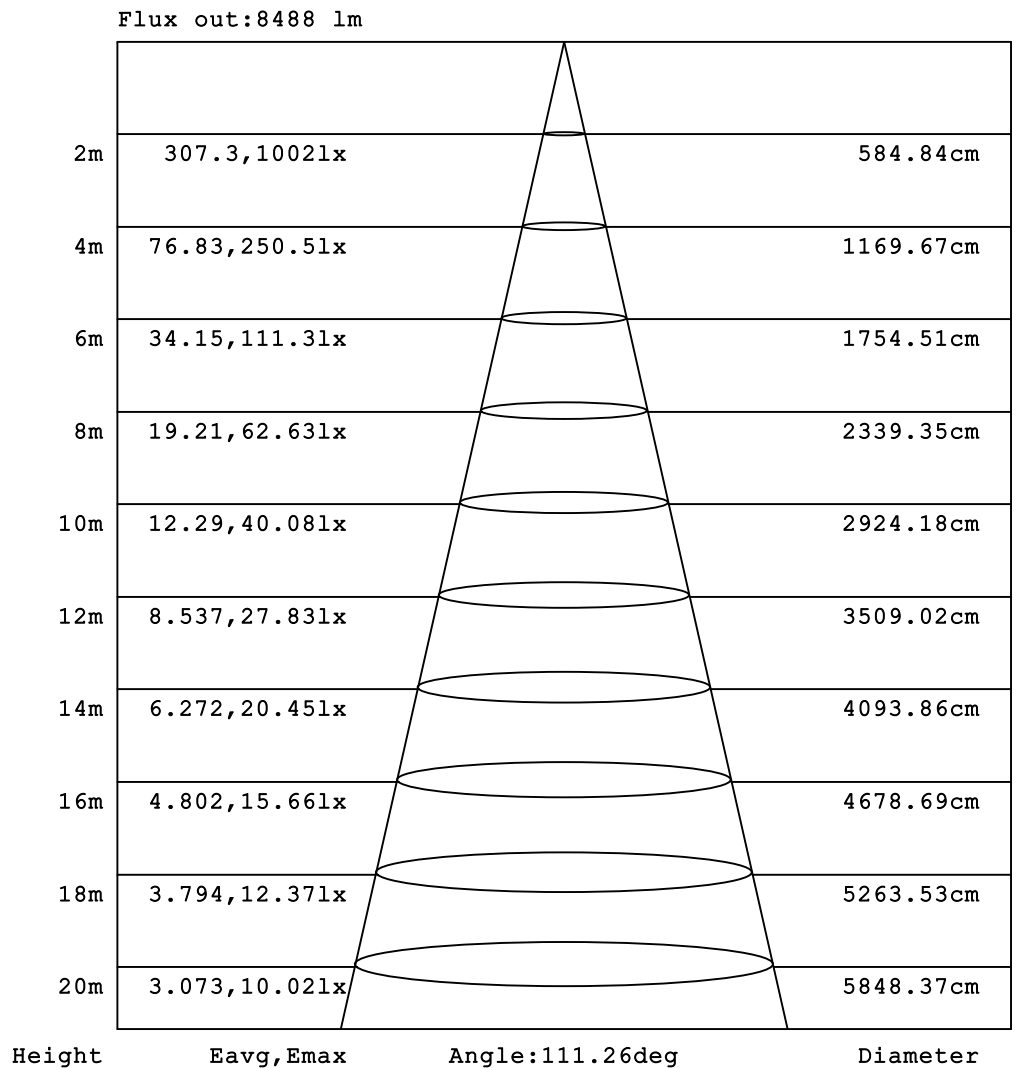


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-09-04

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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



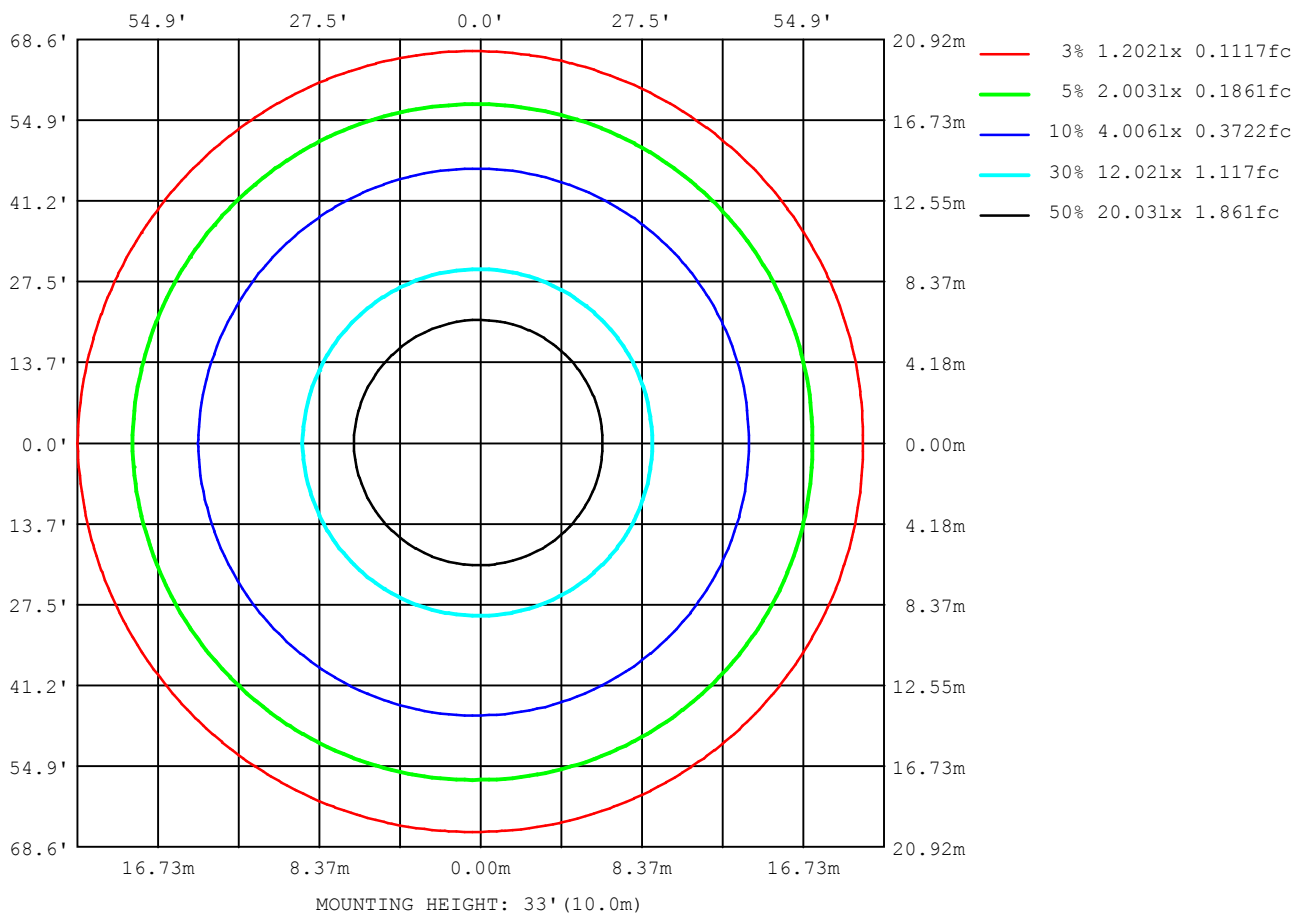
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 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: 2024-09-04

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:220.20V I:0.4440A P:100.30W PF:0.9910 Freq:50.00Hz Lamp Flux:11095.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

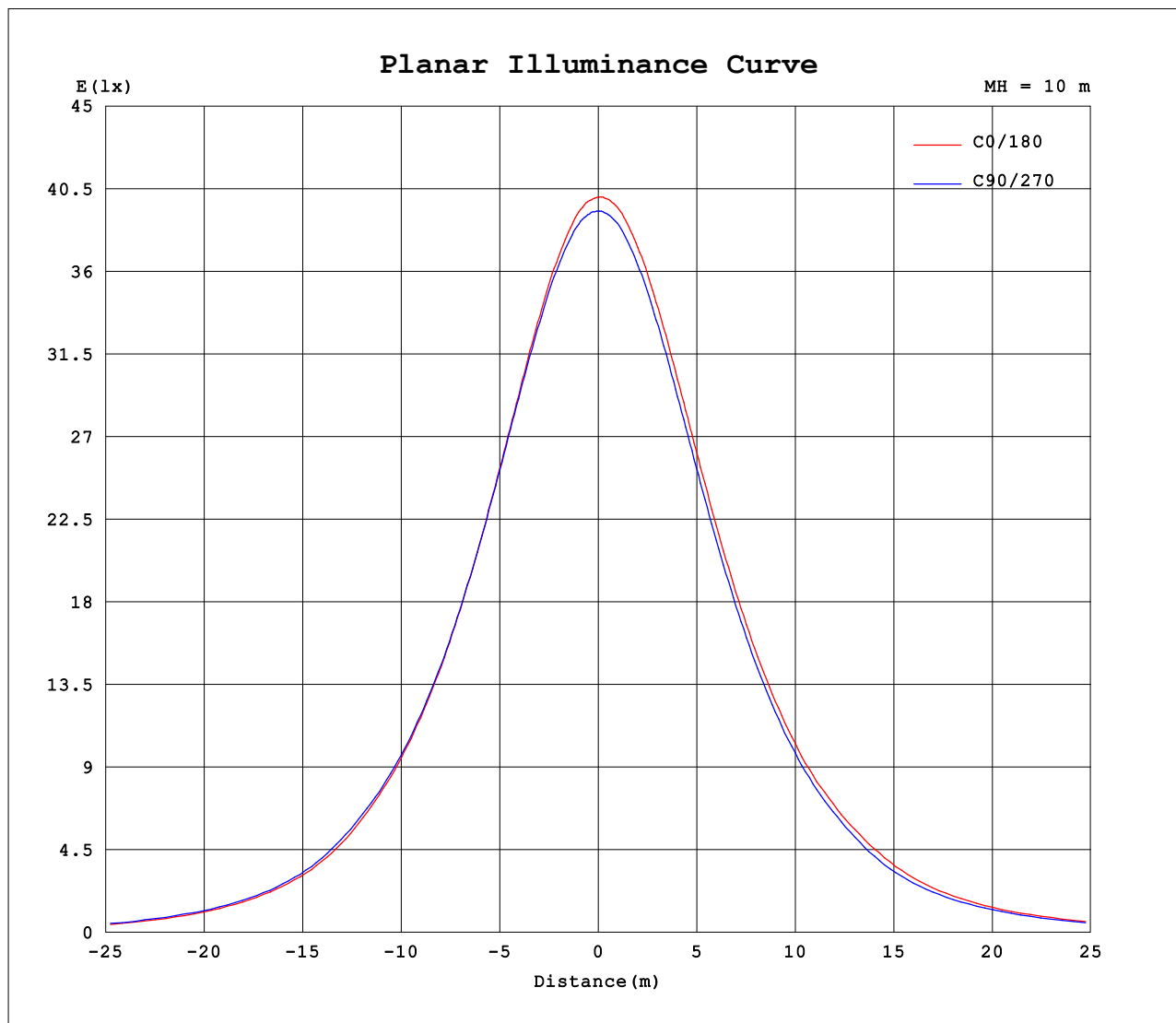
AvgL	cd/m2
L_0~180 (65) av	30846
L_0~180 (75) av	19667
L_0~180 (85) av	10154
L_90~270 (65) av	30210
L_90~270 (75) av	19099
L_90~270 (85) av	9387
L_45 (65) av	30660
L_45 (75) av	19601
L_45 (85) av	9917

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:

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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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