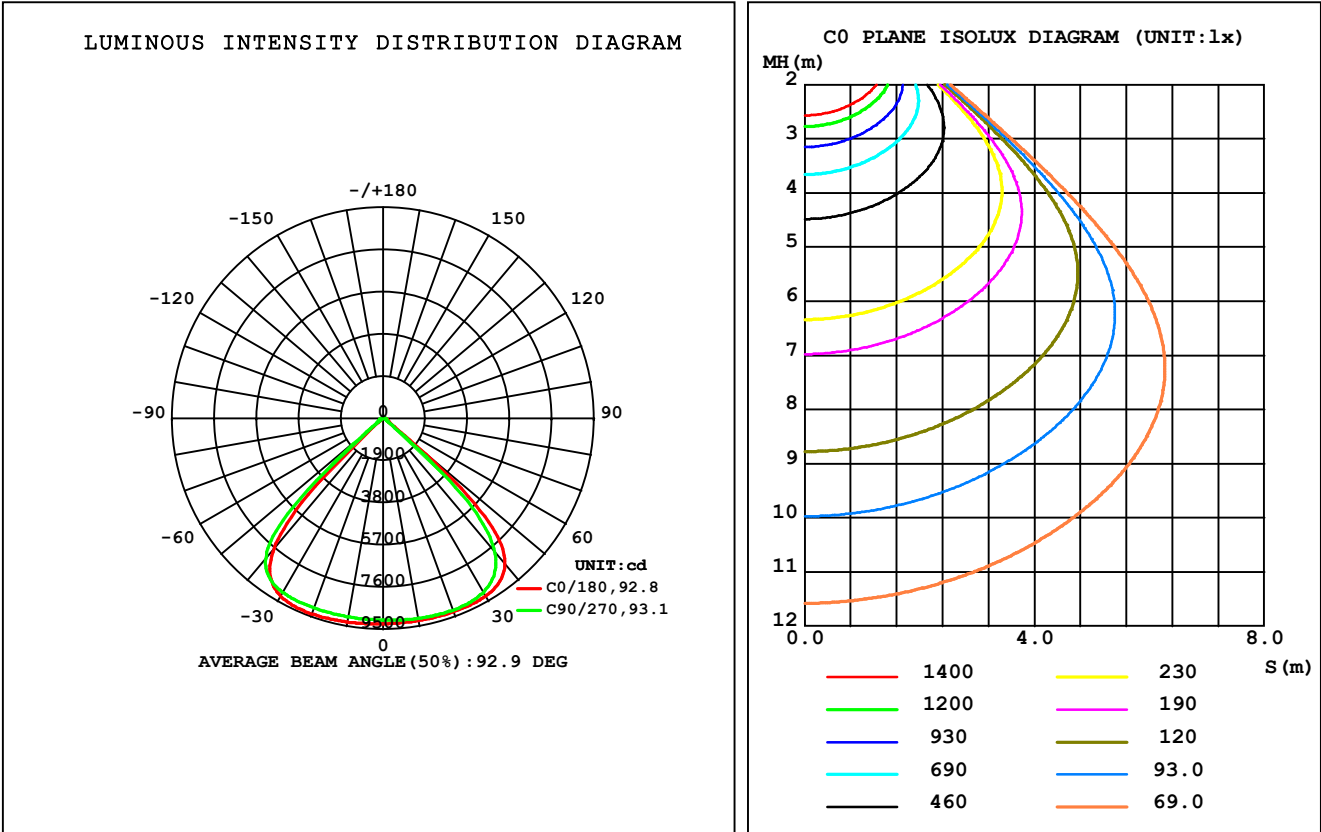


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 120.00 lm/W
MODEL		I _{max} (cd)	9382	S/MH (C0/180)	1.33	
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.40	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	18036	η UP, DN (C0-180)	0.0, 51.3	
NOMINAL FLUX (lm)	18035.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.7	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	120	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: 2024-12-21

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	9246	9146	9308	9075					0- 10	876.7	876.7	4.86, 4.86
20	9275	9198	9379	9096					10- 20	2613	3490	19.4, 19.4
30	9243	9043	9243	9049					20- 30	4264	7754	43, 43
40	8545	7822	7646	8231					30- 40	5500	13255	73.5, 73.5
50	2520	1388	601.2	1214					40- 50	4045	17300	95.9, 95.9
60	222.6	165.6	201.3	250.6					50- 60	387.7	17688	98.1, 98.1
70	141.5	109.4	134.9	157.9					60- 70	169.0	17857	99, 99
80	75.23	69.07	82.94	87.21					70- 80	110.0	17967	99.6, 99.6
90	48.80	46.96	59.30	59.74					80- 90	69.00	18036	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): 15882 lm

%lum = 88.1%

%lamp = 88.1%

Conical surface Flux(120deg): 17688 lm

%lum = 98.1%

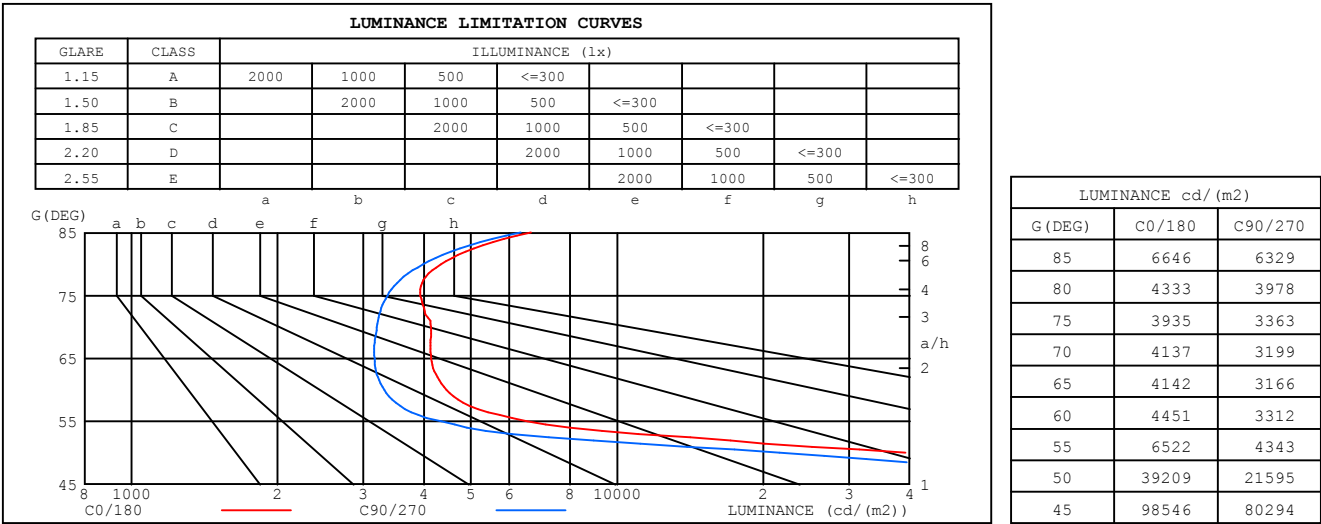
%lamp = 98.1%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



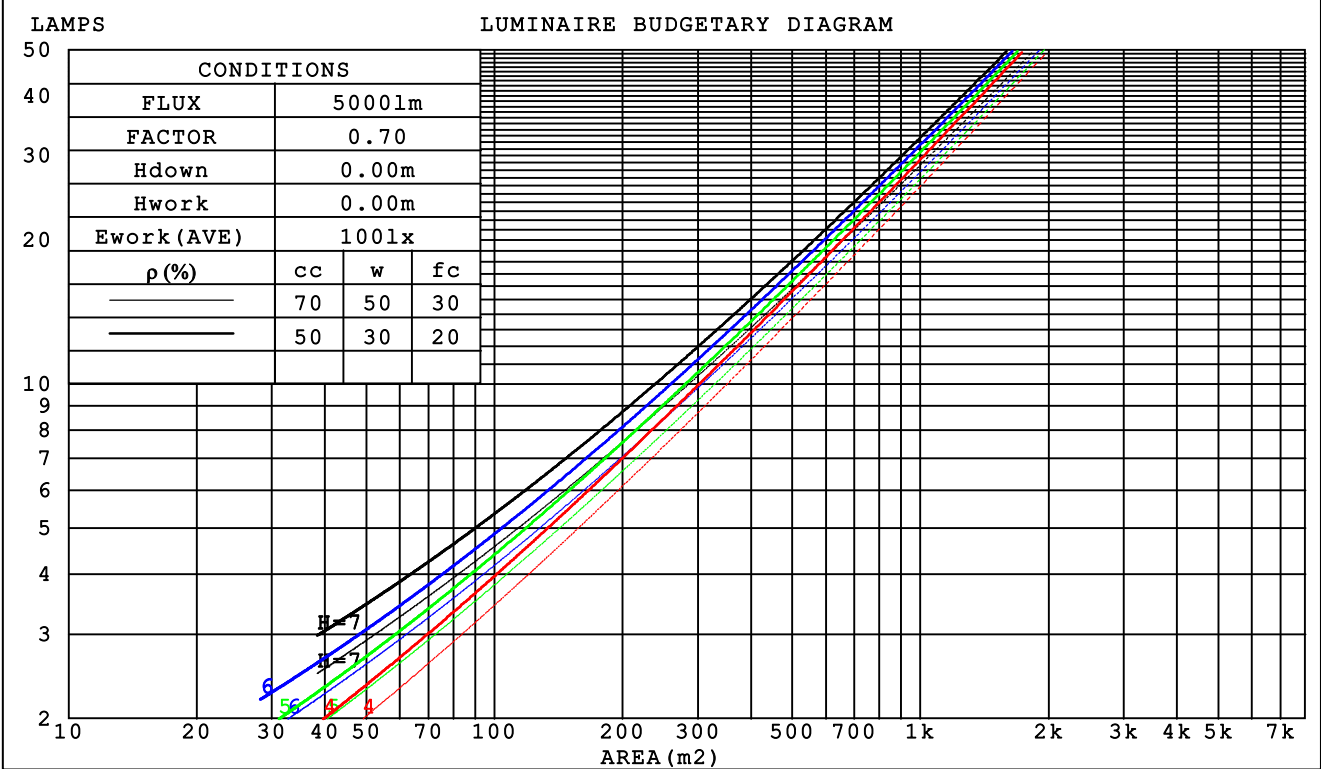
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 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	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.00	.98	.99	.97	.95	.95	.94	.93	.91														
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.91	.88	.85	.88	.86	.84	.82														
3.0	.91	.84	.80	.89	.83	.79	.86	.82	.78	.84	.80	.76	.81	.78	.75	.73														
4.0	.83	.76	.71	.81	.75	.70	.79	.74	.69	.77	.72	.69	.75	.71	.68	.66														
5.0	.76	.69	.63	.75	.68	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59														
6.0	.69	.62	.57	.68	.62	.57	.67	.61	.56	.65	.60	.56	.64	.59	.55	.54														
7.0	.64	.56	.51	.63	.56	.51	.62	.55	.51	.60	.55	.51	.59	.54	.50	.49														
8.0	.59	.52	.47	.58	.51	.46	.57	.51	.46	.56	.50	.46	.55	.50	.46	.44														
9.0	.54	.47	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40														
10.0	.50	.43	.39	.50	.43	.39	.49	.43	.39	.48	.42	.38	.47	.42	.38	.37														



WEC AND CCEC

Test:U:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 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	.214	.122	.039	.207	.118	.038	.194	.111	.036	.183	.105	.034	.172	.100	.032	
2.0	.207	.114	.035	.201	.111	.034	.190	.106	.033	.180	.101	.032	.171	.097	.030	
3.0	.198	.106	.032	.193	.104	.031	.184	.100	.030	.175	.096	.029	.167	.092	.029	
4.0	.189	.098	.029	.185	.097	.029	.177	.094	.028	.169	.091	.027	.162	.088	.027	
5.0	.181	.092	.027	.177	.091	.026	.169	.088	.026	.163	.086	.026	.156	.083	.025	
6.0	.172	.086	.025	.169	.085	.025	.162	.083	.024	.156	.081	.024	.150	.079	.024	
7.0	.164	.081	.023	.161	.080	.023	.155	.078	.023	.150	.077	.022	.145	.075	.022	
8.0	.156	.076	.021	.154	.076	.021	.148	.074	.021	.144	.073	.021	.139	.071	.021	
9.0	.149	.072	.020	.147	.072	.020	.142	.070	.020	.138	.069	.020	.133	.068	.020	
10.0	.143	.068	.019	.140	.068	.019	.136	.067	.019	.132	.066	.019	.128	.064	.018	

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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.108	.138	.114	.094	.094	.079	.065	.054	.046	.038	.017	.015	.012	
3.0	.151	.114	.084	.129	.098	.073	.089	.068	.051	.051	.040	.030	.016	.013	.010	
4.0	.142	.100	.067	.122	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.055	.116	.077	.047	.080	.054	.034	.046	.031	.020	.015	.010	.007	
6.0	.128	.080	.045	.110	.069	.039	.076	.048	.028	.044	.028	.017	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.096	.054	.025	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YINQINYI
 Test Date: 2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 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	24.8	26.0	25.1	26.2	26.4	24.2	25.4	24.4	25.5	25.7
3H	24.6	25.7	24.9	25.9	26.2	24.0	25.1	24.3	25.3	25.5
4H	24.6	25.6	24.9	25.8	26.1	23.9	24.9	24.2	25.2	25.4
6H	24.5	25.4	24.8	25.7	25.9	23.8	24.8	24.2	25.1	25.3
8H	24.5	25.4	24.8	25.6	25.9	23.8	24.7	24.1	25.0	25.3
12H	24.4	25.3	24.8	25.6	25.9	23.8	24.7	24.1	24.9	25.2
4H 2H	24.5	25.6	24.8	25.8	26.0	23.9	24.9	24.2	25.2	25.4
3H	24.4	25.3	24.7	25.5	25.8	23.7	24.6	24.1	24.9	25.2
4H	24.3	25.1	24.7	25.4	25.7	23.7	24.5	24.0	24.8	25.1
6H	24.3	24.9	24.6	25.3	25.6	23.6	24.3	24.0	24.6	25.0
8H	24.2	24.9	24.6	25.2	25.6	23.6	24.2	24.0	24.6	25.0
12H	24.2	24.8	24.6	25.2	25.6	23.6	24.2	24.0	24.5	24.9
8H 4H	24.2	24.8	24.6	25.2	25.6	23.6	24.2	24.0	24.6	24.9
6H	24.1	24.7	24.6	25.1	25.5	23.5	24.0	23.9	24.4	24.9
8H	24.1	24.6	24.6	25.0	25.5	23.5	24.0	24.0	24.4	24.8
12H	24.1	24.5	24.6	25.0	25.4	23.5	23.9	24.0	24.4	24.8
12H 4H	24.1	24.7	24.6	25.1	25.5	23.5	24.1	23.9	24.5	24.9
6H	24.1	24.6	24.6	25.0	25.4	23.5	23.9	23.9	24.4	24.8
8H	24.1	24.5	24.6	24.9	25.4	23.5	23.9	23.9	24.3	24.8
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / - 9.4					+ 3.0 / - 9.9				
1.5H	+ 2.7 / -10.9					+ 2.6 / -10.8				
2.0H	+ 7.1 / - 8.8					+ 7.0 / - 8.3				

CIE Pub.117, 18036 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.0$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

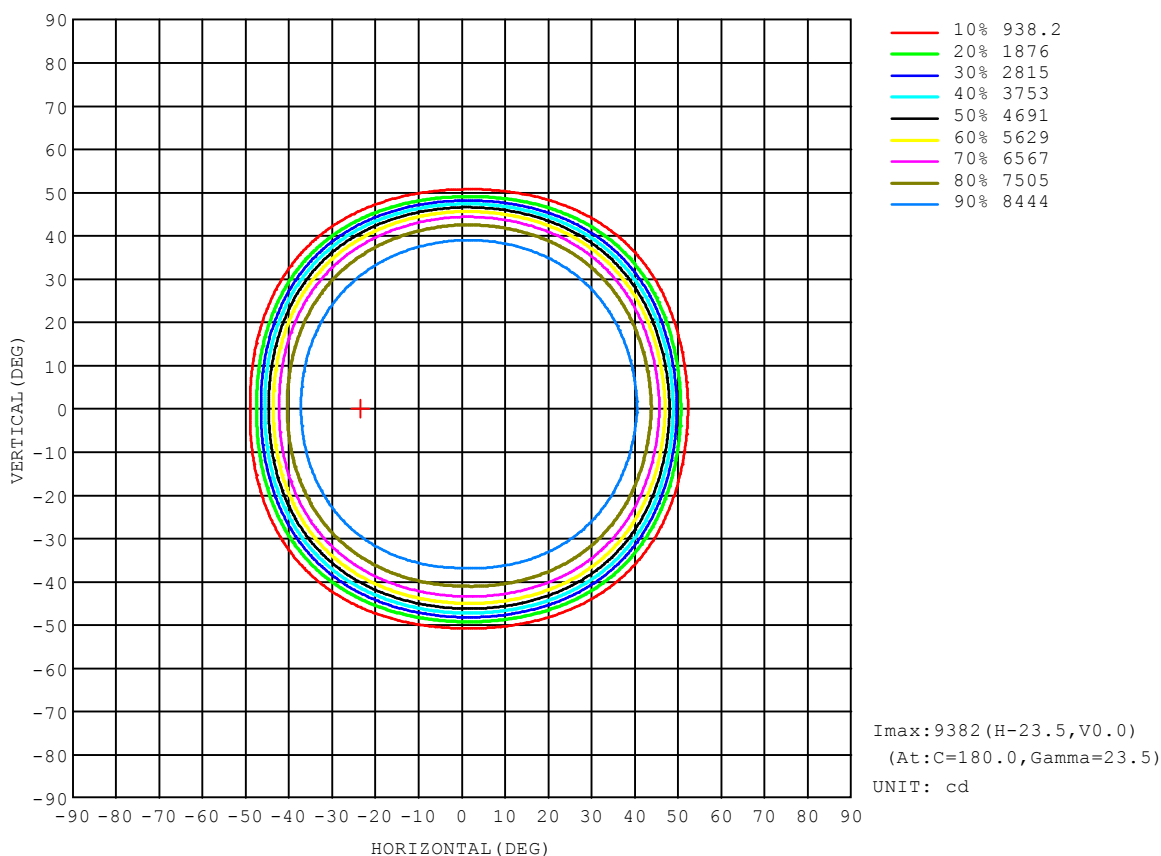
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	75	66	61	74	66	61	73	66	61	56
0.80	84	76	71	84	76	71	82	75	71	66
1.00	91	84	79	90	83	79	89	84	78	73
1.25	97	90	85	96	89	85	94	88	84	79
1.50	101	94	90	99	93	89	97	92	88	83
2.00	105	100	95	103	98	95	100	96	93	87
2.50	107	102	98	105	101	97	102	98	96	89
3.00	109	105	101	107	103	100	104	101	98	91
4.00	111	108	105	109	106	104	106	103	101	93
5.00	113	110	107	111	108	106	107	104	103	94
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: 2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

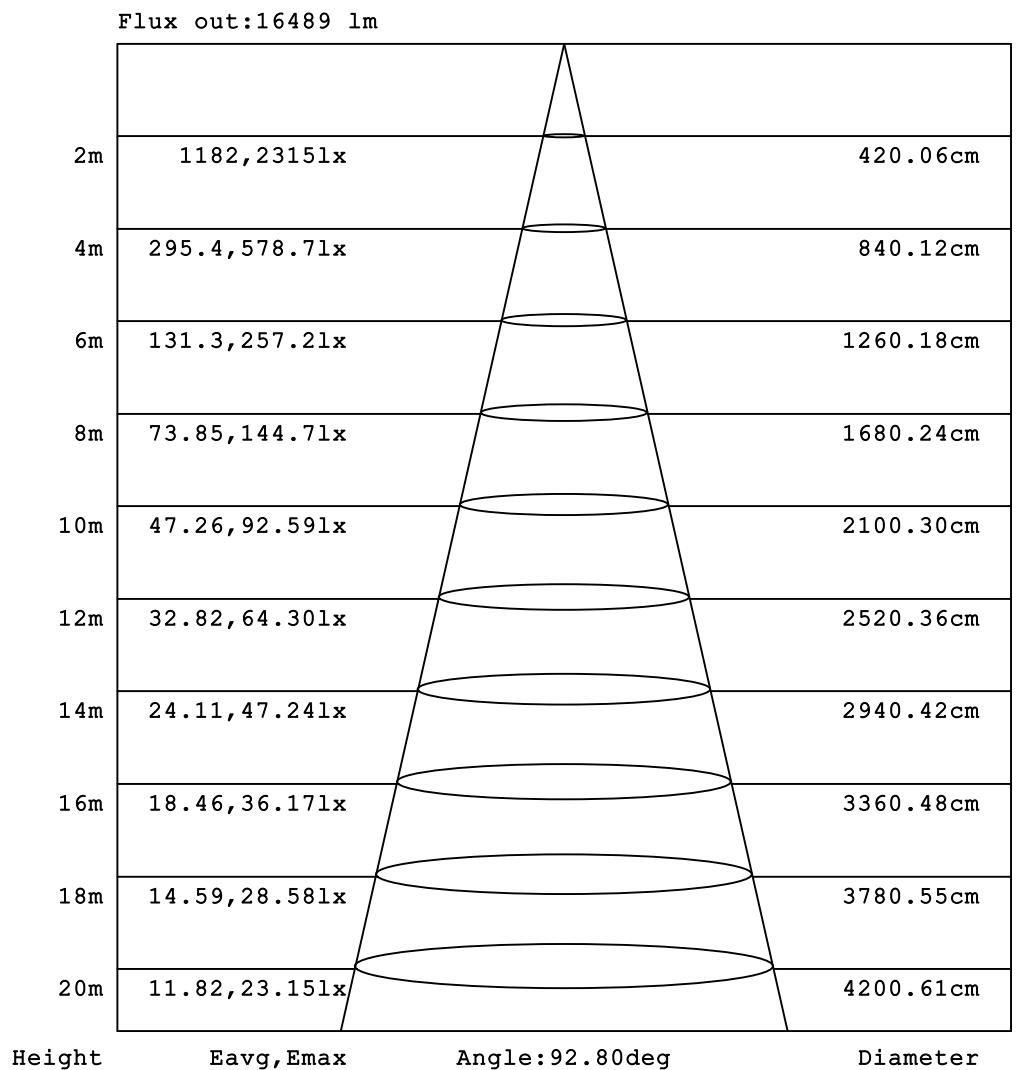


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YINQINYI
Test Date: 2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



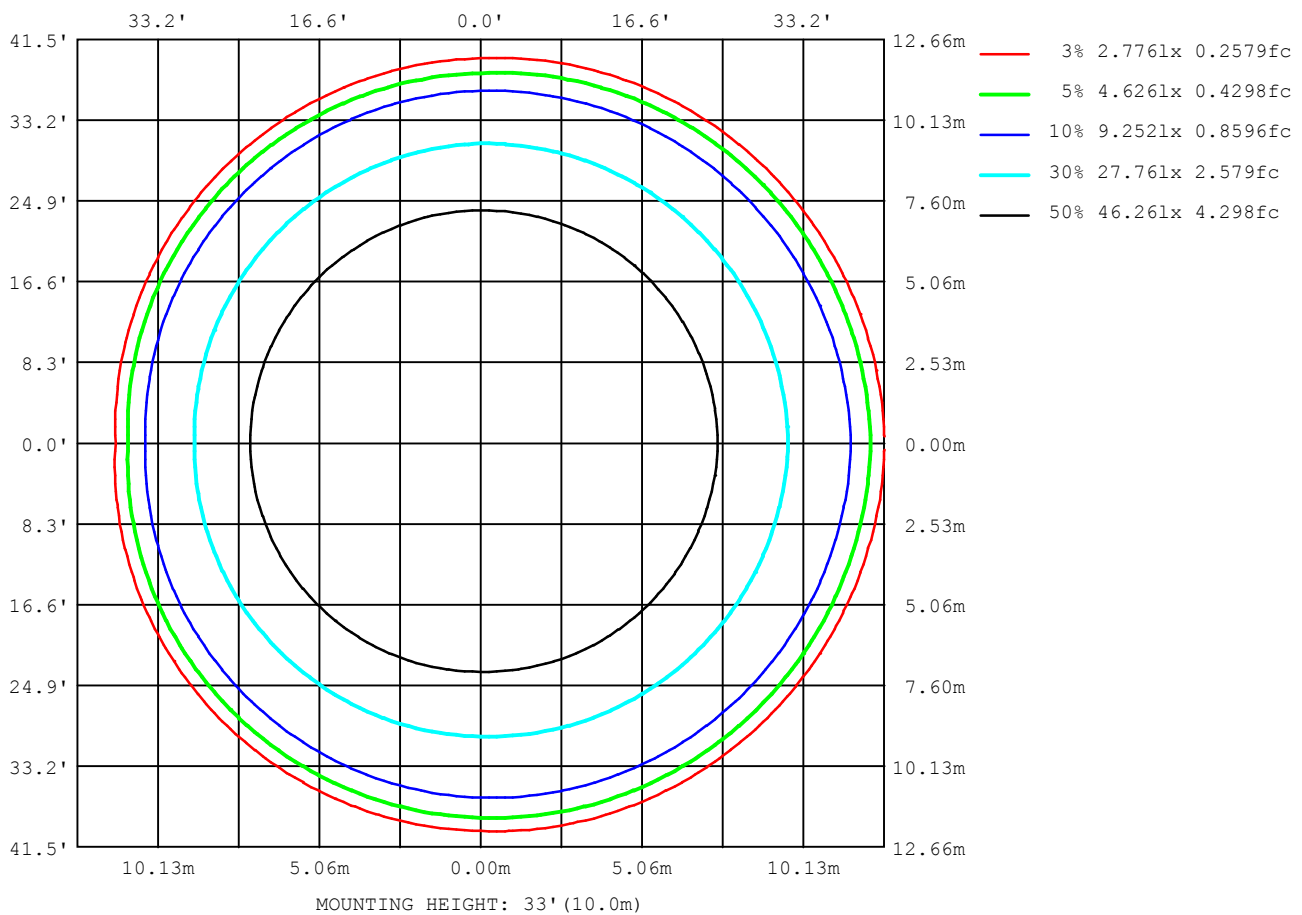
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360 DEG
C Interval: 90.0 DEG
Test Speed: HIGH
Temperature: 25.3 DEG
Operators: YINQINYI
Test Date: 2024-12-21

γ Range: 0 - 90 DEG
 γ Interval: 0.5 DEG
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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 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: 2024-12-21

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:119.80V I:1.9130A P:150.30W PF:0.6550 Freq:50.00Hz Lamp Flux:18035.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

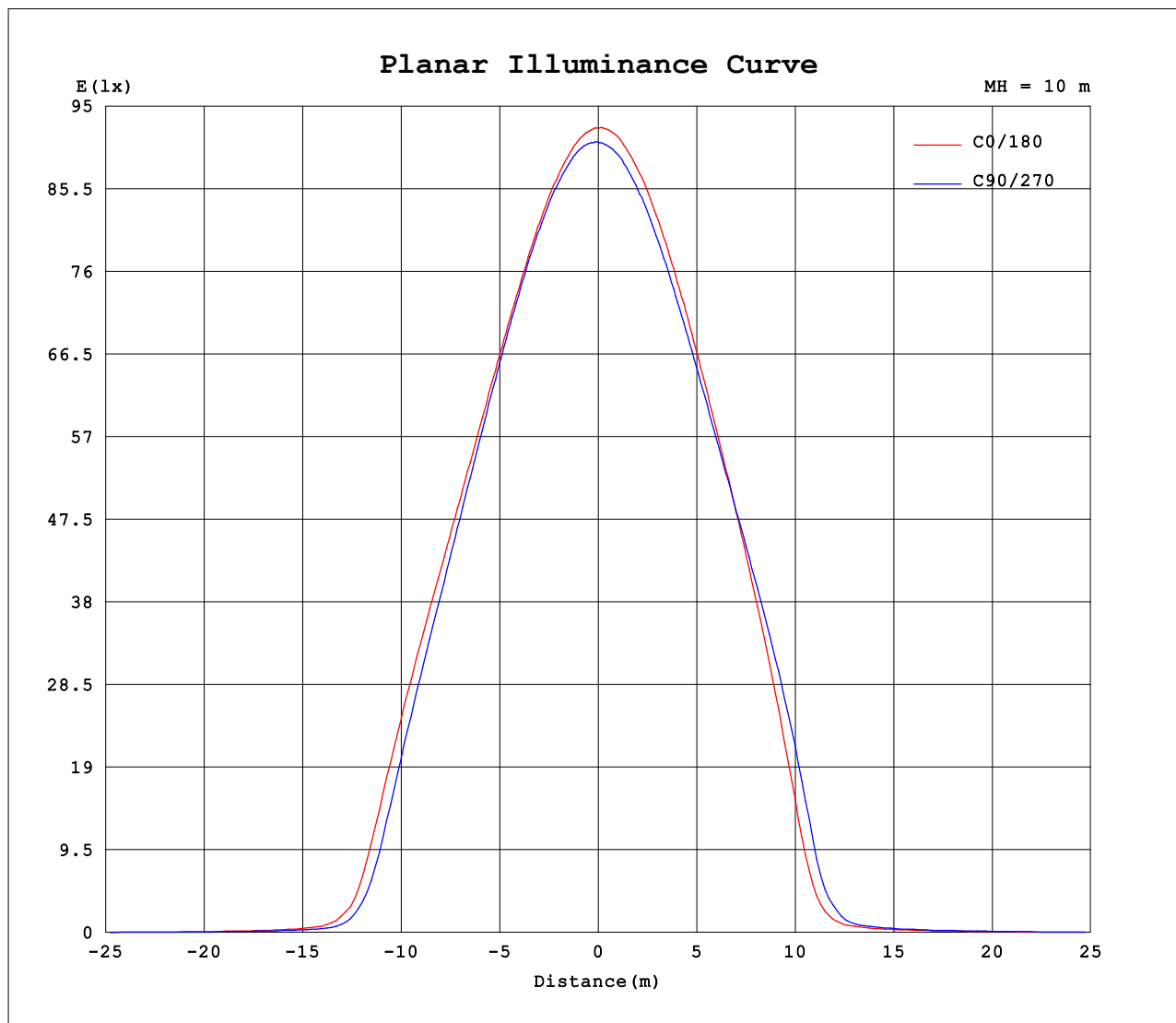
AvgL	cd/m2
L_0~180 (65) av	4067
L_0~180 (75) av	4012
L_0~180 (85) av	7084
L_90~270 (65) av	3964
L_90~270 (75) av	3898
L_90~270 (85) av	7046
L_45 (65) av	3998
L_45 (75) av	3946
L_45 (85) av	7087

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YINQINYI
Test Date:2024-12-21

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: 2024-12-21

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:

```