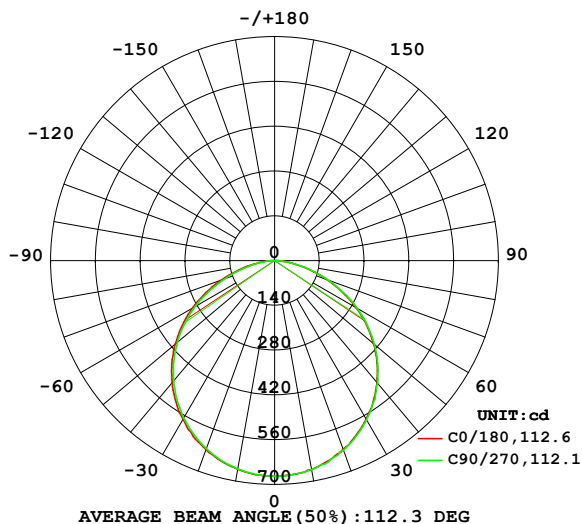


LUMINAIRE PHOTOMETRIC TEST REPORT

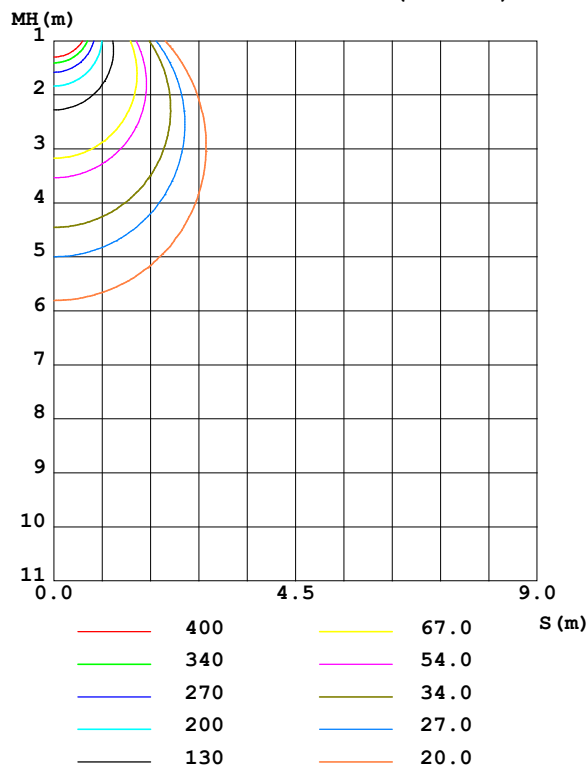
Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 100.21 lm/W			
MODEL	OYS18W	Imax (cd)	676.9	S/MH(C0/180)	1.27
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	240	TOTAL FLUX(lm)	1898.6	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	1898.59	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240	η down (%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: Chen Songyu
Test Date: 2025-02-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.520m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	662.5	663.9	661.5	661.2	663.3	665.3	664.0	663.2	0- 10	63.83	63.83	3.36,3.36
20	628.1	628.4	625.2	625.9	627.3	630.7	630.3	629.4	10- 20	183.0	246.9	13,13
30	572.8	572.0	568.7	567.0	572.4	573.8	575.2	572.6	20- 30	277.9	524.7	27.6,27.6
40	498.8	494.8	491.2	492.6	498.1	498.1	502.2	497.4	30- 40	335.7	860.5	45.3,45.3
50	404.8	399.1	396.4	395.5	404.7	404.1	407.8	403.4	40- 50	348.0	1208	63.6,63.6
60	295.9	287.2	285.7	283.3	293.2	291.7	297.3	292.4	50- 60	310.9	1519	80,80
70	175.7	166.8	164.7	163.9	174.5	171.6	177.8	173.1	60- 70	228.6	1748	92.1,92.1
80	66.48	61.21	57.11	59.82	64.81	65.21	66.67	66.86	70- 80	121.0	1869	98.4,98.4
90	1.358	0.9417	0.8849	0.8836	1.012	1.507	1.672	1.894	80- 90	29.69	1899	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): 1036 lm

%lum = 54.6%

%lamp = 54.6%

Conical surface Flux(120deg): 1519.3 lm

%lum = 80.0%

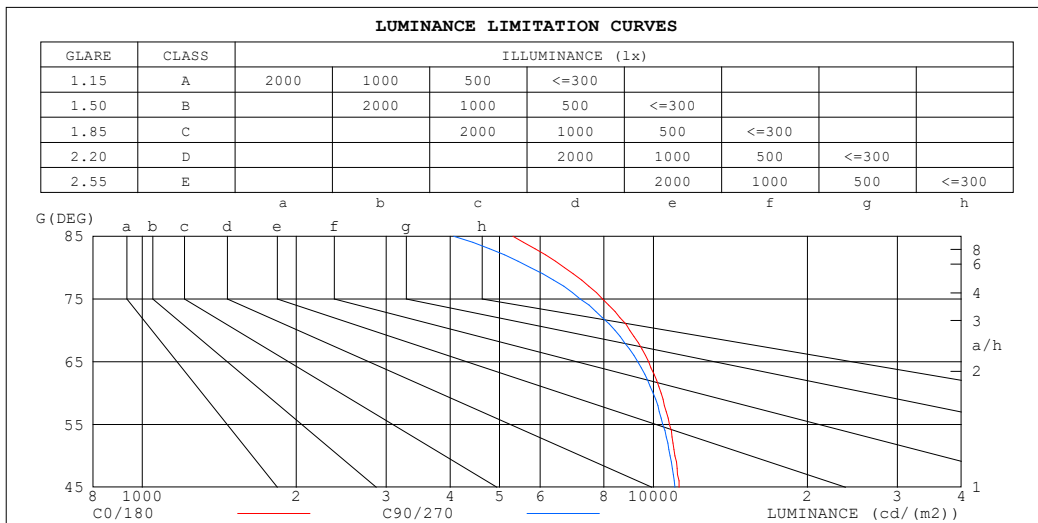
%lamp = 80.0%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Chen Songyu
 Test Date:2025-02-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:9.520m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5308	4069
80	6694	5748
75	7954	7191
70	8982	8414
65	9780	9322
60	10347	9984
55	10752	10429
50	11012	10777
45	11226	11020

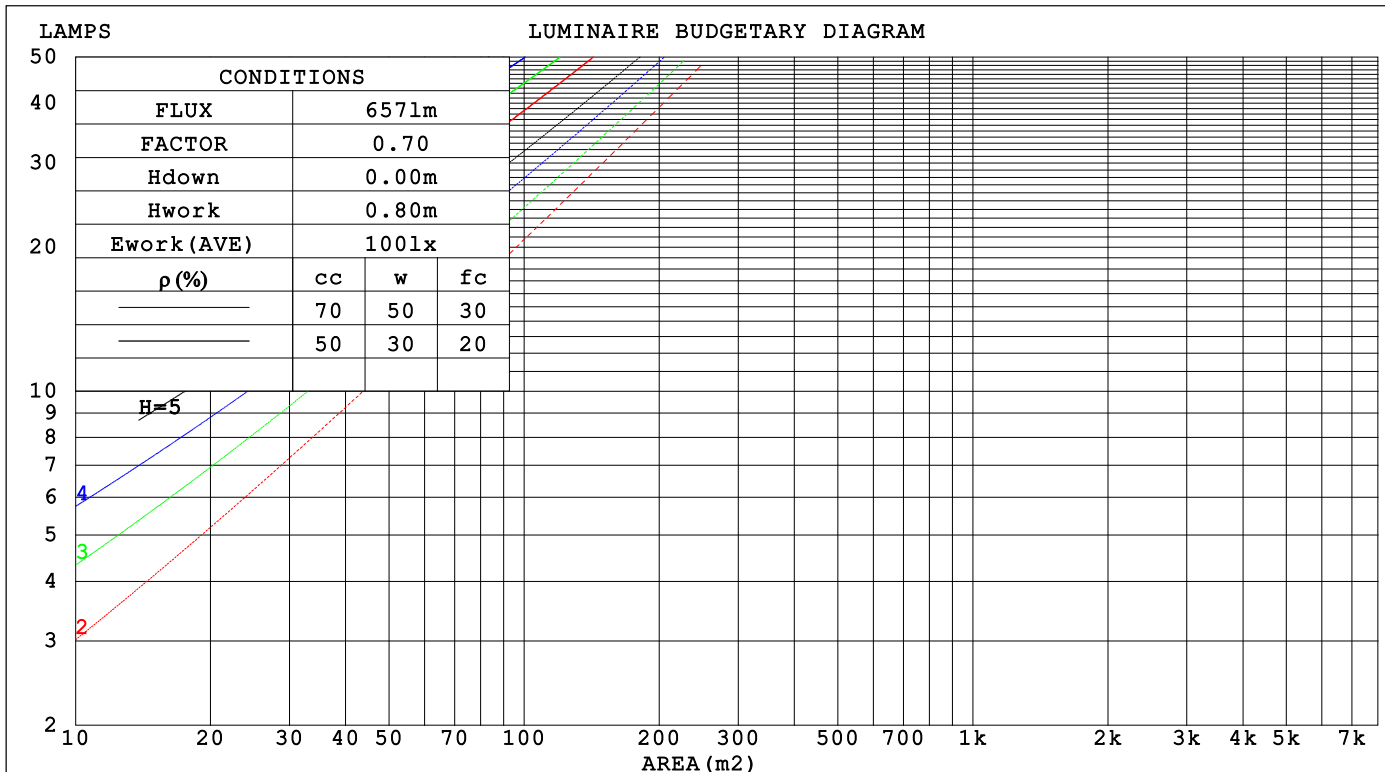
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Chen Songyu
Test Date: 2025-02-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.520m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	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	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84														
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.72	.70														
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.64	.73	.67	.62	.70	.65	.61	.59														
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.65	.58	.53	.62	.57	.53	.51														
5.0	.63	.54	.48	.62	.54	.47	.60	.53	.47	.58	.51	.46	.56	.50	.46	.44														
6.0	.57	.48	.42	.56	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38														
7.0	.52	.43	.37	.51	.42	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34														
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30														
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27														
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.31	.26	.24														



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.303	.172	.055	.296	.169	.054	.282	.162	.052	.270	.156	.050	.259	.150	.048		
2.0	.287	.157	.048	.281	.155	.048	.269	.150	.046	.258	.145	.045	.248	.140	.044		
3.0	.267	.142	.042	.261	.140	.042	.251	.136	.041	.241	.132	.041	.232	.129	.040		
4.0	.247	.128	.038	.242	.127	.037	.233	.123	.037	.224	.120	.036	.216	.118	.036		
5.0	.229	.116	.034	.224	.115	.034	.216	.113	.033	.209	.110	.033	.201	.108	.032		
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029		
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.092	.027		
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.086	.025	.165	.085	.025		
9.0	.173	.084	.023	.171	.083	.023	.165	.082	.023	.161	.080	.023	.156	.079	.023		
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.147	.074	.021		

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						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015		
2.0	.172	.132	.099	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011		
3.0	.164	.114	.075	.140	.099	.065	.096	.068	.045	.056	.040	.027	.018	.013	.009		
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007		
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006		
6.0	.142	.082	.039	.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	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004		
9.0	.123	.064	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003		
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm											
Name: OYS18W						Type: 18W			Weight:		
SPEC.: 5700K						DIM.:			Instrument No.: HUP-IES-B3		
MFR.: EVERFINE						SUR.: 0.135			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		21.1	22.6	21.4	22.8	23.0	21.0	22.5	21.2	22.7	22.9
3H		22.5	23.9	22.8	24.1	24.4	22.3	23.7	22.6	23.9	24.2
4H		23.0	24.4	23.3	24.6	24.9	22.8	24.1	23.1	24.4	24.6
6H		23.4	24.6	23.7	24.9	25.2	23.1	24.3	23.4	24.6	24.9
8H		23.5	24.7	23.8	24.9	25.2	23.1	24.3	23.5	24.6	24.9
12H		23.5	24.7	23.8	24.9	25.2	23.1	24.3	23.5	24.6	24.9
4H 2H		21.6	23.0	22.0	23.2	23.5	21.5	22.9	21.9	23.1	23.4
3H		23.2	24.4	23.6	24.7	25.0	23.1	24.2	23.4	24.5	24.8
4H		23.8	24.9	24.2	25.2	25.6	23.6	24.7	24.0	25.0	25.3
6H		24.3	25.2	24.7	25.6	25.9	24.0	24.9	24.4	25.3	25.7
8H		24.4	25.3	24.8	25.7	26.1	24.1	25.0	24.5	25.3	25.7
12H		24.5	25.3	24.9	25.7	26.1	24.2	25.0	24.6	25.3	25.7
8H 4H		24.0	24.9	24.5	25.3	25.7	23.8	24.7	24.3	25.1	25.5
6H		24.6	25.3	25.0	25.7	26.2	24.3	25.1	24.8	25.5	25.9
8H		24.8	25.4	25.3	25.9	26.3	24.5	25.1	25.0	25.6	26.0
12H		24.9	25.5	25.4	25.9	26.4	24.6	25.1	25.1	25.6	26.1
12H 4H		24.0	24.8	24.5	25.2	25.6	23.8	24.6	24.3	25.0	25.4
6H		24.6	25.3	25.1	25.7	26.1	24.4	25.0	24.8	25.4	25.9
8H		24.9	25.4	25.3	25.9	26.3	24.6	25.1	25.0	25.6	26.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1899 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.2$)
Area: 0.05722 m²

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2025-02-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

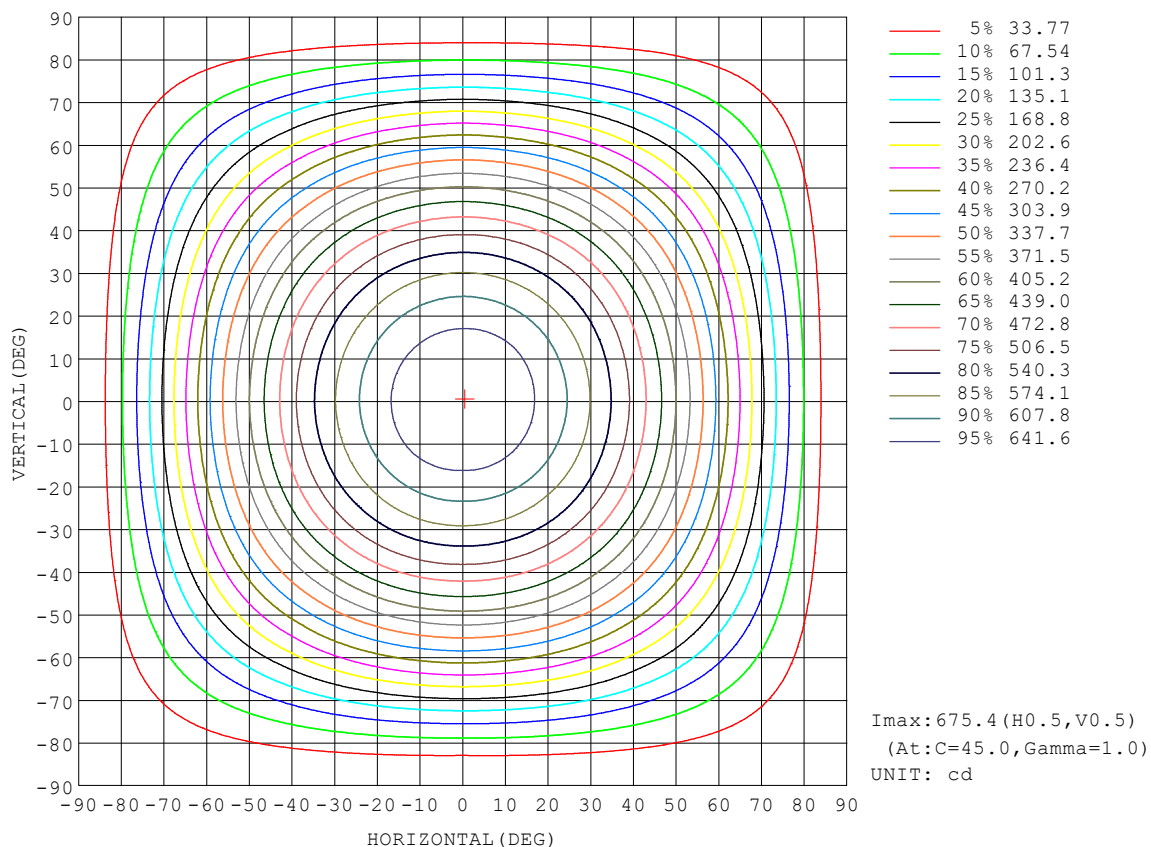
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	84	73	66	82	73	66	79	71	65	58
1.50	89	79	72	87	78	71	84	76	70	63
2.00	95	87	81	94	86	80	90	84	78	71
2.50	99	92	86	97	90	85	93	88	83	75
3.00	103	96	90	100	94	89	96	91	87	79
4.00	107	101	96	104	99	95	100	96	92	84
5.00	109	104	100	106	102	99	102	99	96	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators: Chen Songyu
Test Date: 2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.520m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

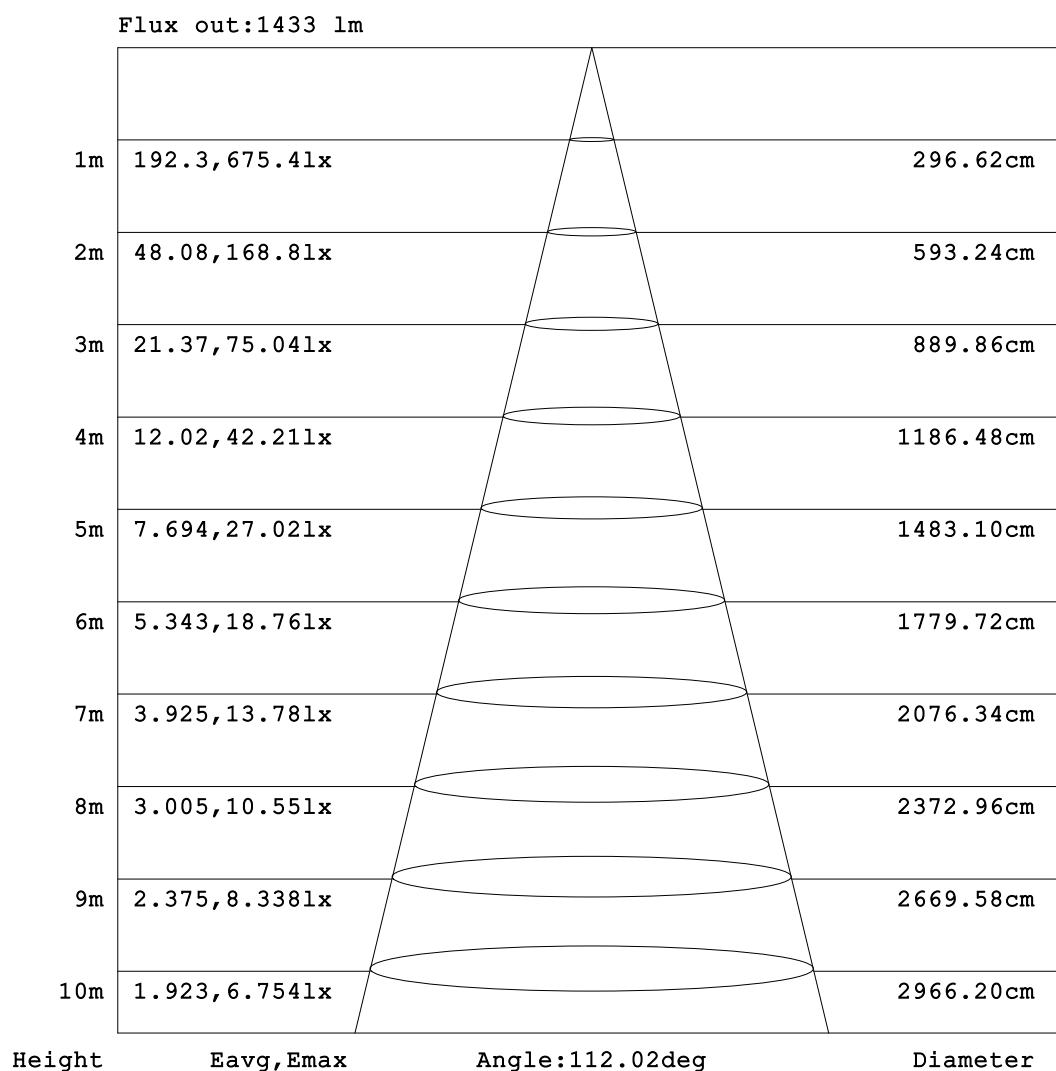


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Chen Songyu
Test Date: 2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 9.520m [K=1.0000]
Remarks:

AAI Figure

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:



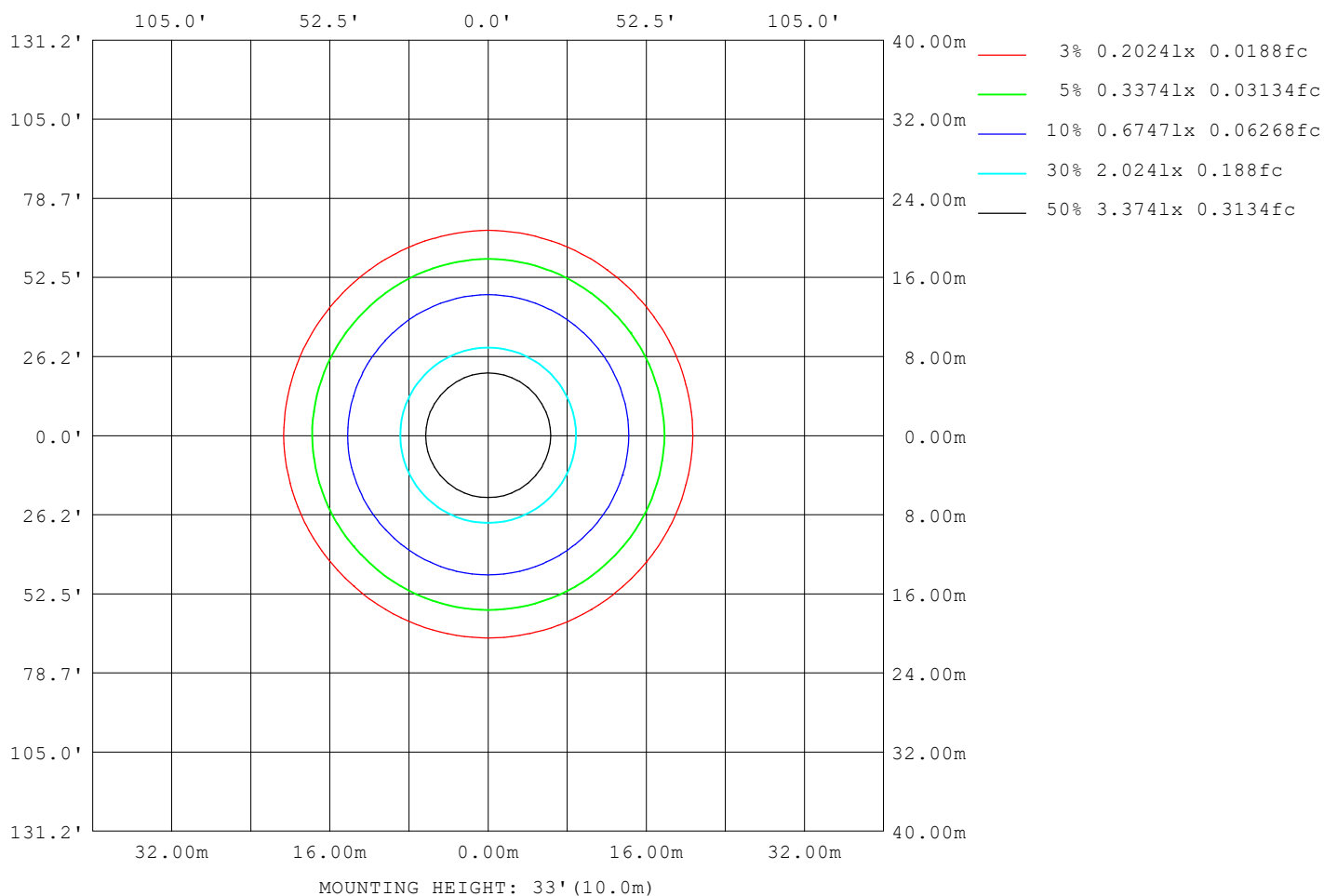
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

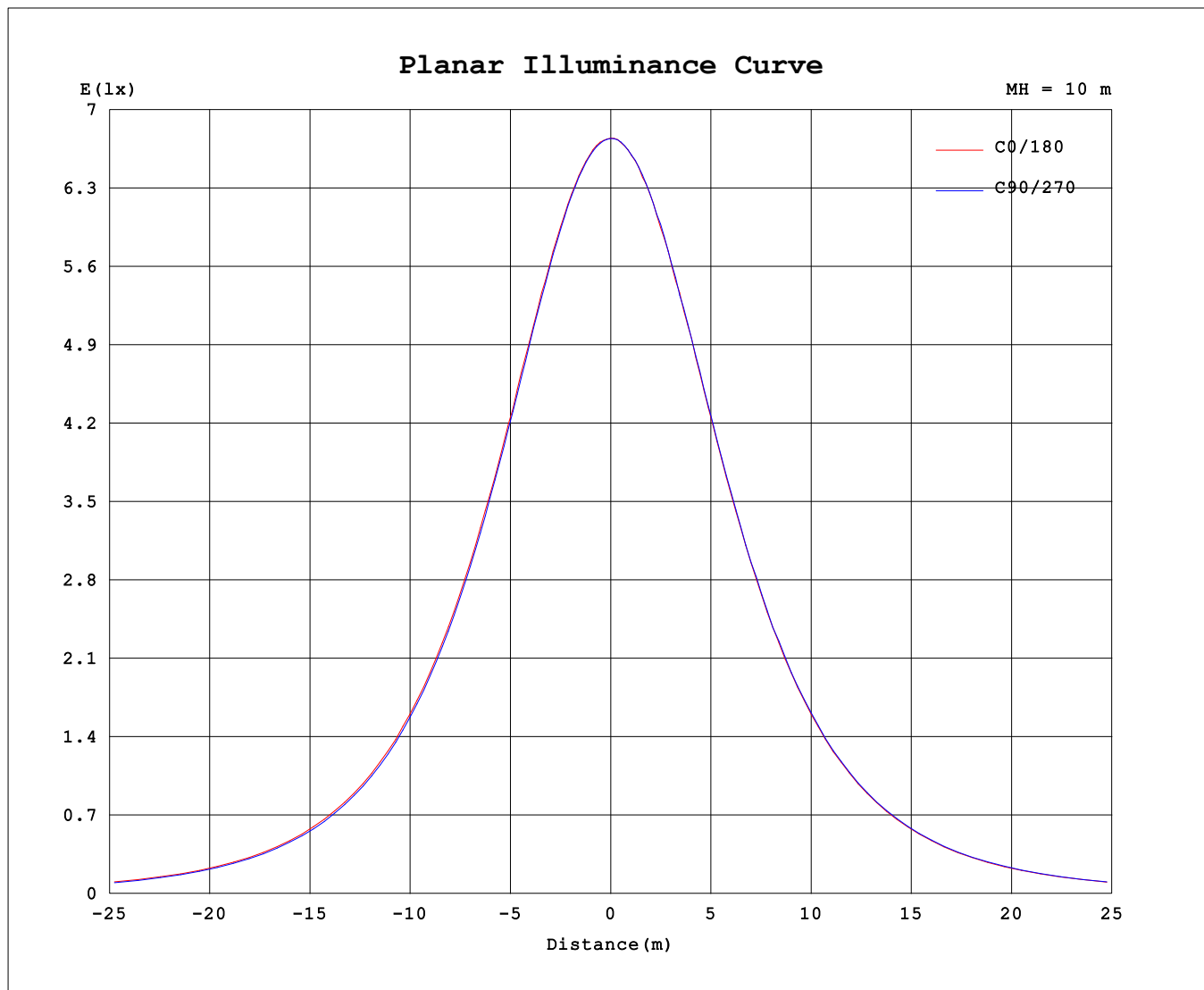
AvgL	cd/m2
L_0~180 (65) av	9737
L_0~180 (75) av	7895
L_0~180 (85) av	5149
L_90~270 (65) av	9585
L_90~270 (75) av	7612
L_90~270 (85) av	4698
L_45 (65) av	9451
L_45 (75) av	7586
L_45 (85) av	5098

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Chen Songyu
Test Date:2025-02-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: Chen Songyu
 Test Date: 2025-02-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 9.520m [K=1.0000]
 Remarks:

Test:U:240.26V I:0.0824A P:18.946W PF:0.9568 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1898.59x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 5700K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

UNIT: cd

[illegible]

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:9.520m [K=1.0000]
Remarks:

```