

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	658.7	661.1	659.0	661.6	661.6	663.2	660.4	0- 10	63.67	63.67	3.36,3.36
20	629.3	625.0	625.3	624.7	629.0	626.6	629.1	626.7	10- 20	182.6	246.2	13,13
30	572.5	568.0	567.3	569.2	573.7	572.0	575.5	570.2	20- 30	277.3	523.5	27.6,27.6
40	497.7	490.6	491.4	492.8	498.8	493.7	500.7	496.6	30- 40	334.9	858.4	45.3,45.3
50	403.8	397.1	397.4	394.6	405.7	400.2	407.7	402.5	40- 50	347.2	1206	63.7,63.7
60	293.7	284.7	285.4	283.2	295.2	290.6	297.3	291.7	50- 60	310.2	1516	80.1,80.1
70	174.4	165.0	164.4	163.4	175.3	170.8	177.6	171.9	60- 70	227.9	1744	92.1,92.1
80	65.31	60.34	56.82	59.36	65.29	64.67	66.26	65.92	70- 80	120.4	1864	98.4,98.4
90	1.200	0.9135	0.8782	0.8775	1.055	1.496	1.646	1.817	80- 90	29.39	1894	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): 1033.6 lm

%lum = 54.6%

%lamp = 54.6%

Conical surface Flux(120deg): 1515.8 lm

%lum = 80.1%

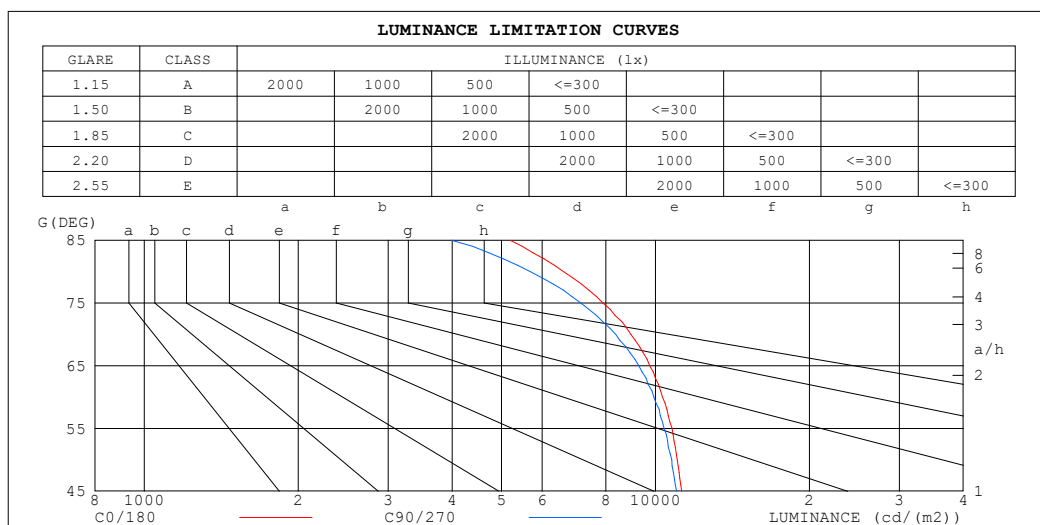
%lamp = 80.1%

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:0.0825A P:18.952W PF:0.9575 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1893.52x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5196	3992
80	6605	5692
75	7896	7141
70	8953	8361
65	9739	9275
60	10316	9929
55	10771	10396
50	11032	10756
45	11261	10998

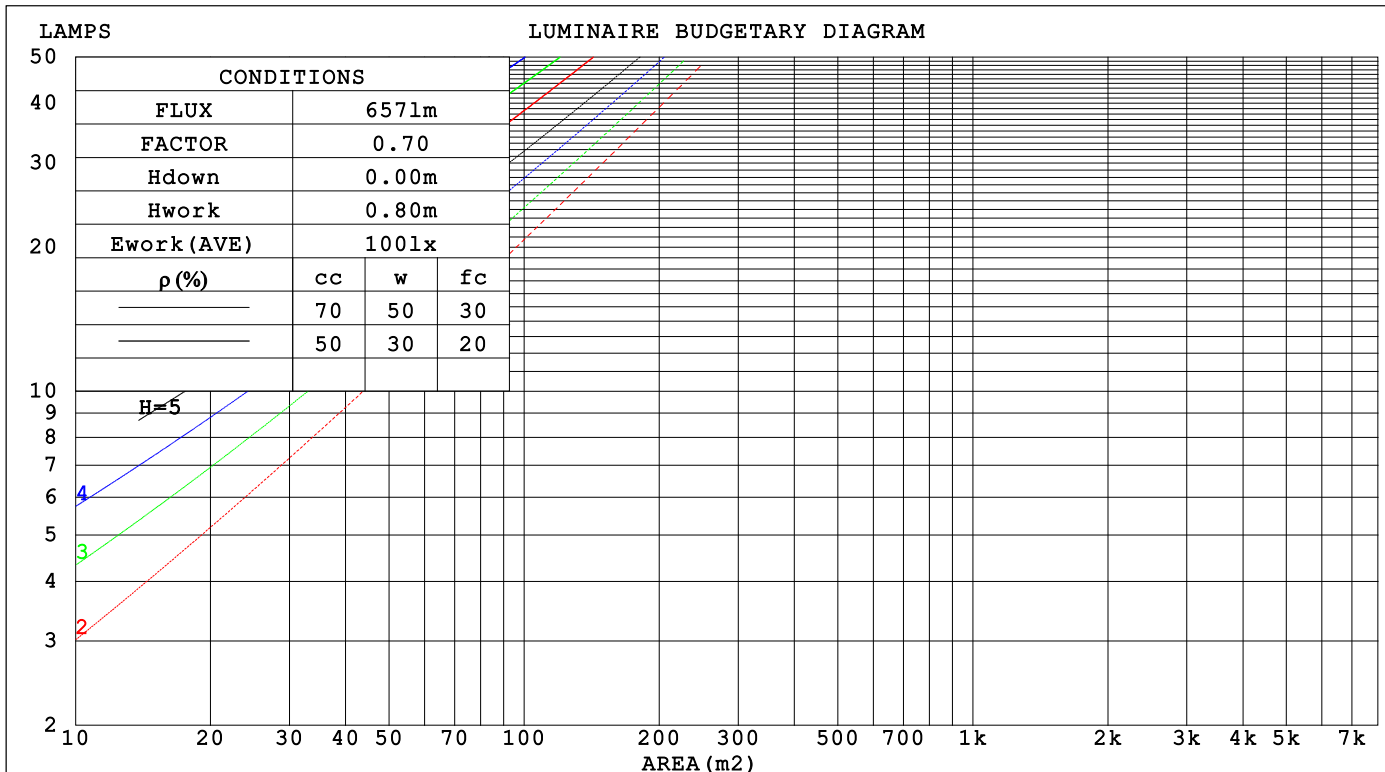
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Chen Songyu
Test Date: 2025-02-25

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:0.0825A P:18.952W PF:0.9575 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1893.52x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	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	.48	.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
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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:

WEC AND CCEC

Test:U:240.26V I:0.0825A P:18.952W PF:0.9575 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1893.52x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	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	.295	.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	.266	.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	.228	.116	.034	.224	.115	.034	.216	.112	.033	.208	.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	.091	.027		
8.0	.185	.090	.025	.182	.089	.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:0.0825A P:18.952W PF:0.9575 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1893.52x1 lm										
Name: OYS18W					Type: 18W			Weight:		
SPEC.: 3000K					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	24.3	23.3	24.6	24.9	22.8	24.1	23.1	24.3	24.6
6H	23.3	24.6	23.7	24.9	25.1	23.0	24.3	23.4	24.5	24.8
8H	23.4	24.6	23.8	24.9	25.2	23.1	24.3	23.4	24.6	24.9
12H	23.5	24.6	23.8	24.9	25.2	23.1	24.3	23.5	24.6	24.9
4H 2H	21.7	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	23.0	24.2	23.4	24.5	24.8
4H	23.8	24.9	24.2	25.2	25.5	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	25.6
8H	24.4	25.3	24.8	25.6	26.0	24.1	24.9	24.5	25.3	25.7
12H	24.5	25.3	24.9	25.7	26.1	24.1	24.9	24.5	25.3	25.7
8H 4H	24.0	24.9	24.4	25.3	25.7	23.8	24.7	24.2	25.1	25.4
6H	24.6	25.3	25.0	25.7	26.1	24.3	25.0	24.7	25.4	25.9
8H	24.8	25.4	25.2	25.8	26.3	24.5	25.1	24.9	25.5	26.0
12H	24.9	25.5	25.4	25.9	26.4	24.6	25.1	25.0	25.6	26.0
12H 4H	24.0	24.8	24.4	25.2	25.6	23.8	24.6	24.2	25.0	25.4
6H	24.6	25.2	25.1	25.7	26.1	24.3	25.0	24.8	25.4	25.9
8H	24.8	25.4	25.3	25.8	26.3	24.5	25.1	25.0	25.5	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, 1894 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 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:0.0825A P:18.952W PF:0.9575 Freq:49.99Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1893.52x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

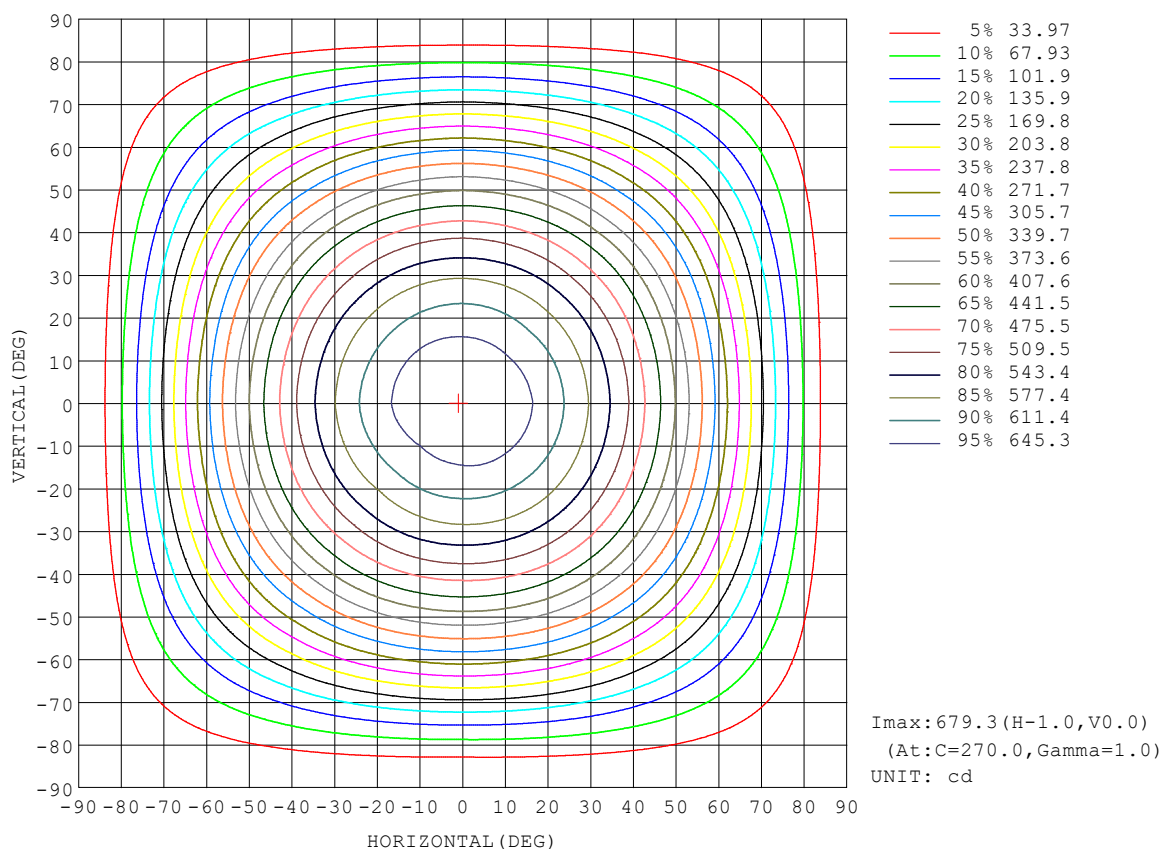
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	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	107	102	99	102	99	96	87
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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Remarks:

ISOCANDELA DIAGRAM

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Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

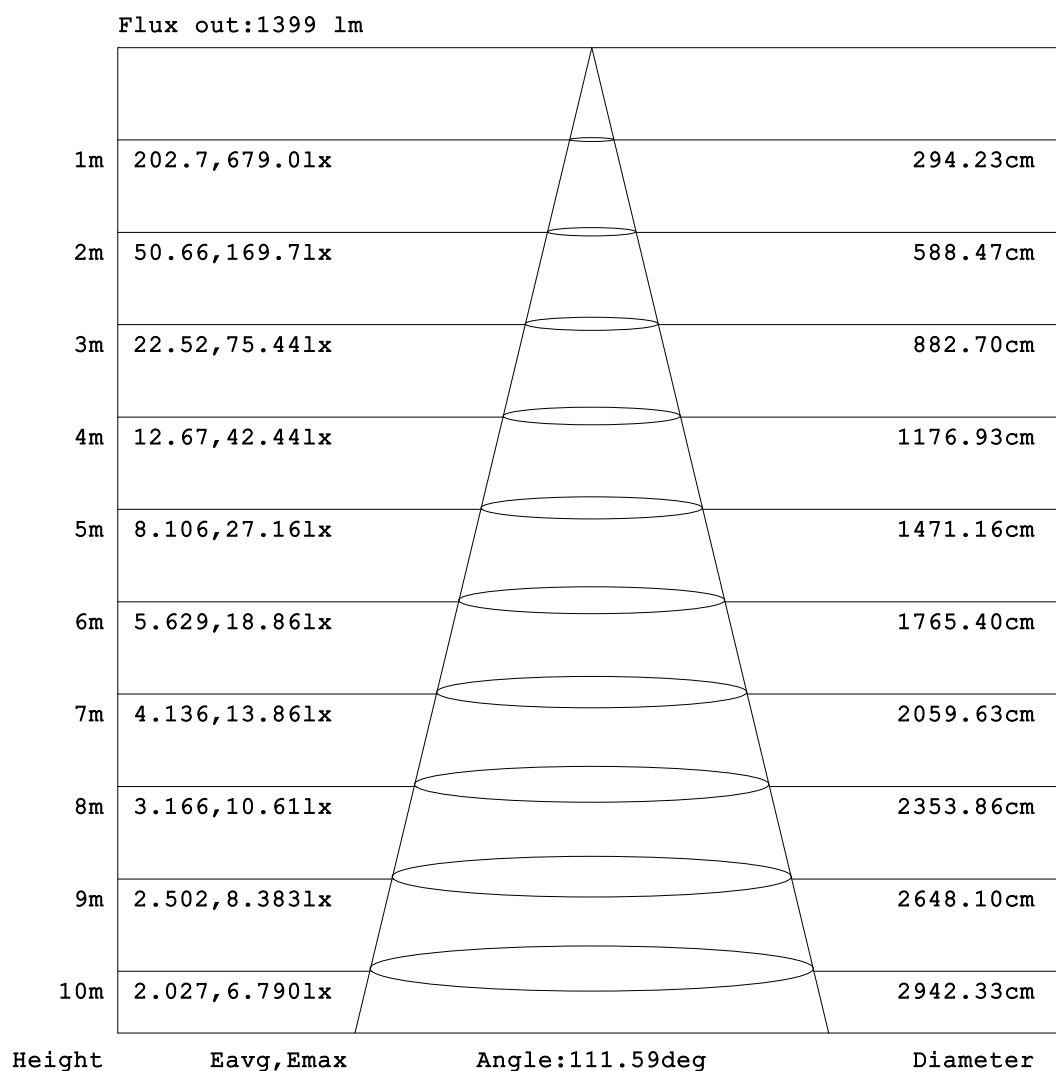


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Chen Songyu
Test Date: 2025-02-25

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:0.0825A P:18.952W PF:0.9575 Freq:49.99Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1893.52x1 lm		
Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:



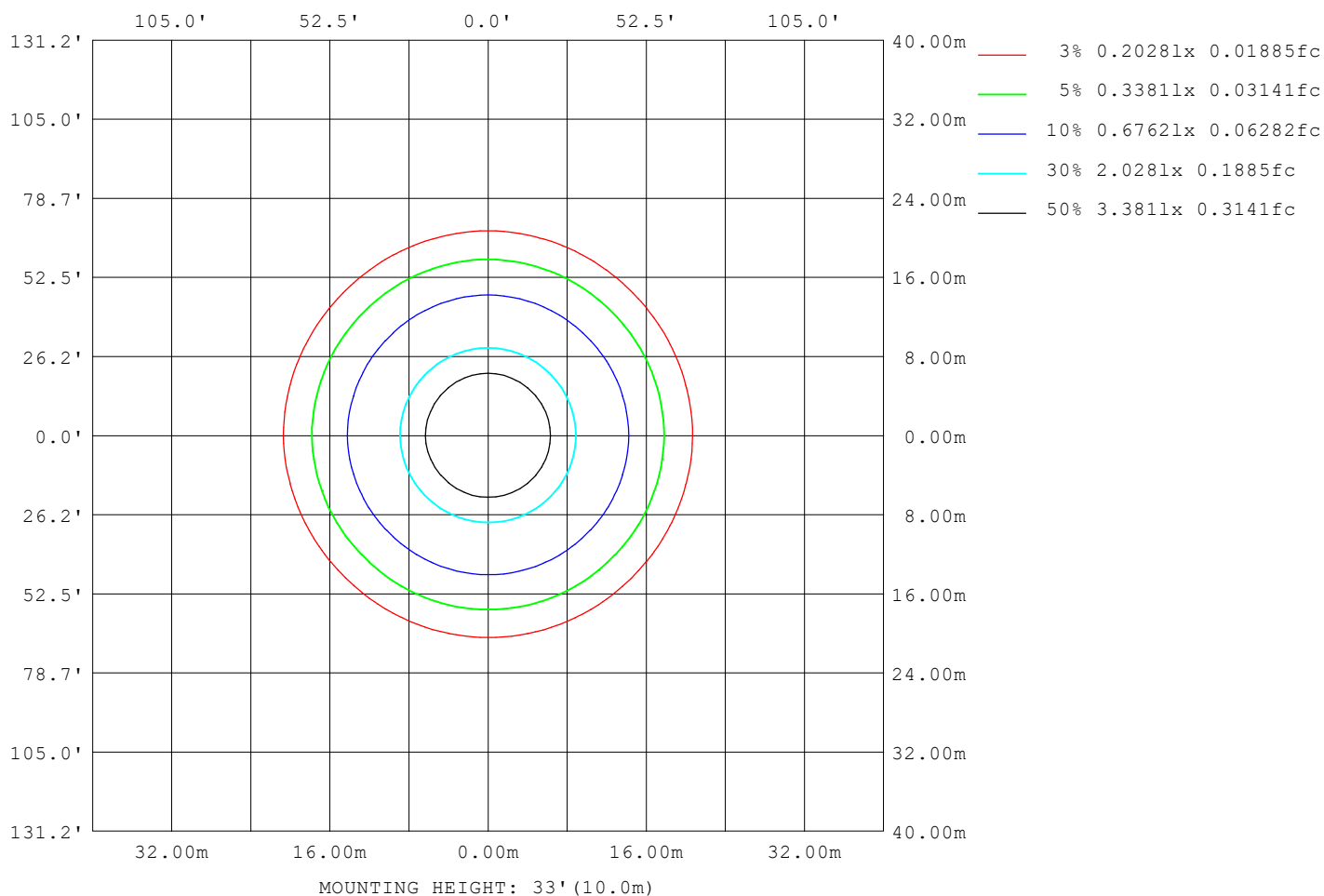
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
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LED Avg.L Report

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Name: OYS18W	Type: 18W	Weight:
SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

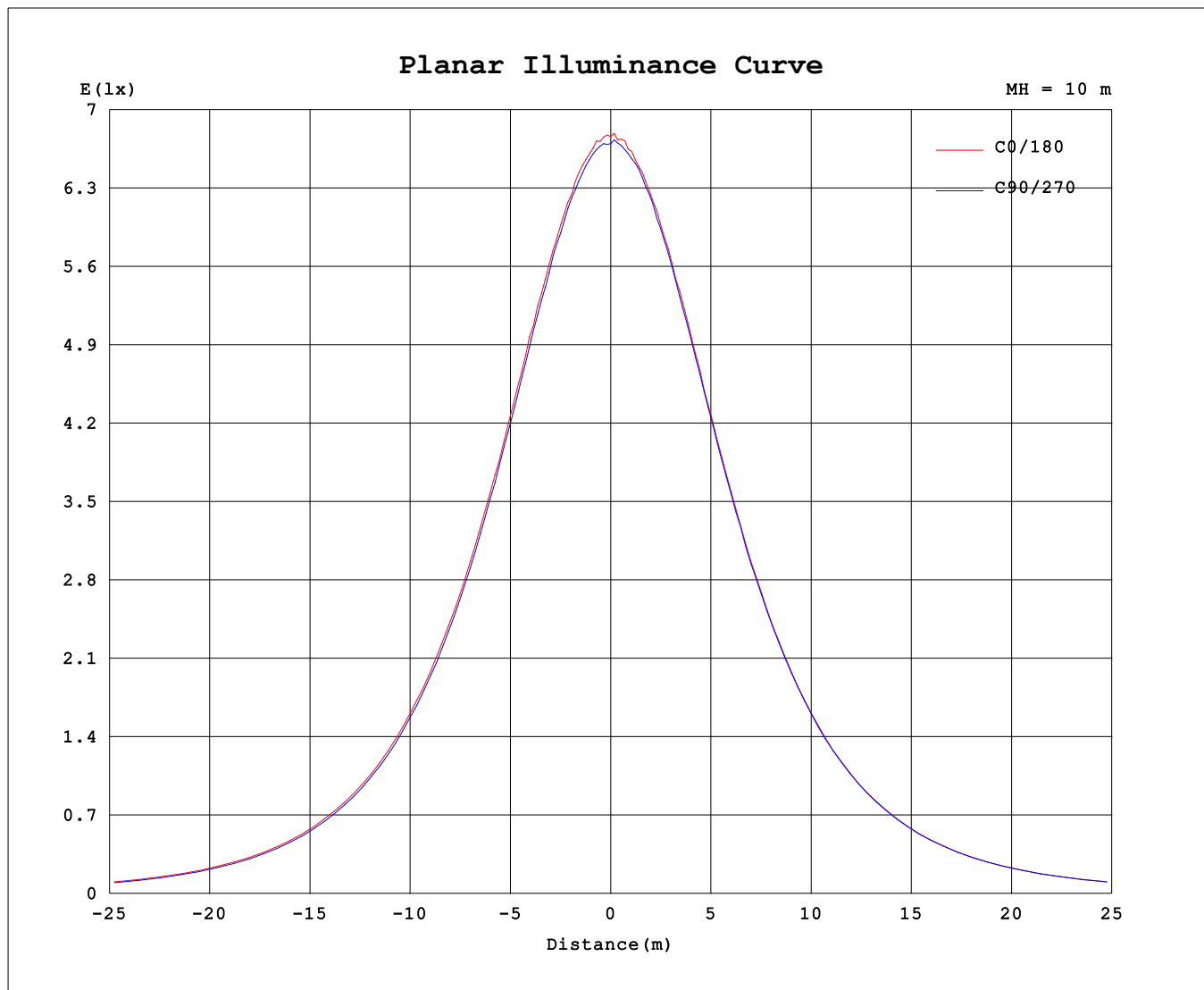
AvgL	cd/m2
L_0~180 (65) av	9714
L_0~180 (75) av	7875
L_0~180 (85) av	5122
L_90~270 (65) av	9575
L_90~270 (75) av	7581
L_90~270 (85) av	4650
L_45 (65) av	9412
L_45 (75) av	7519
L_45 (85) av	5034

Standard: GB/T 29293-2012

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Remarks:

Planar Illuminance Curve



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SPEC.: 3000K	DIM.:	Instrument No.: HUP-IES-B3
MFR.: EVERFINE	SUR.: 0.135	shielding angle:

UNIT: cd

[illegible]

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Humidity:65.0%
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Remarks:

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