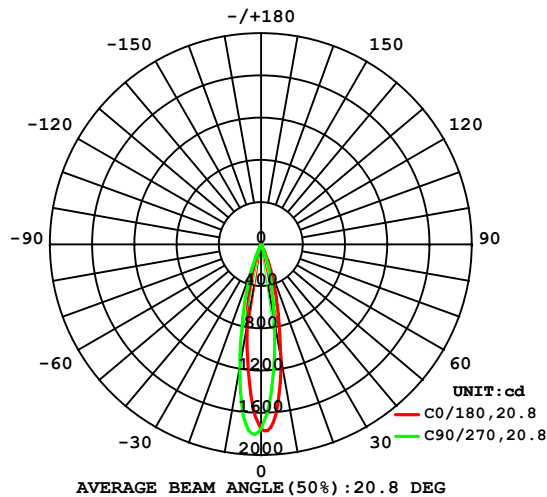


LUMINAIRE PHOTOMETRIC TEST REPORT

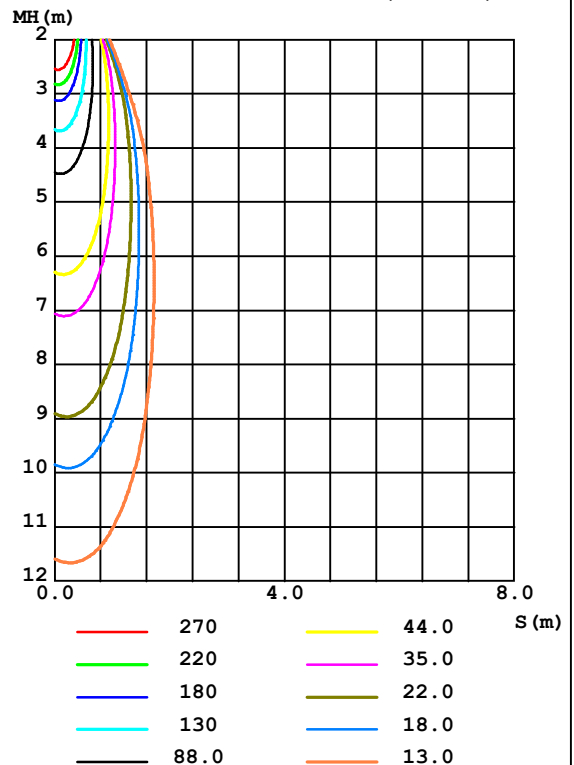
Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 26.51 lm/W
MODEL	Luminus	Imax(cd)	1815	S/MH(C0/180)	0.31	
NOMINAL POWER(W)	9	LOR(%)	34.6	S/MH(C90/270)	0.43	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	311.37	η UP,DN(C0-180)	0.0,15.9	
NOMINAL FLUX(lm)	900	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,18.7	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220	η down(%)	34.6	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 彭金英
Test Date: 2026-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity: 60%
Test Distance: 12.350m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

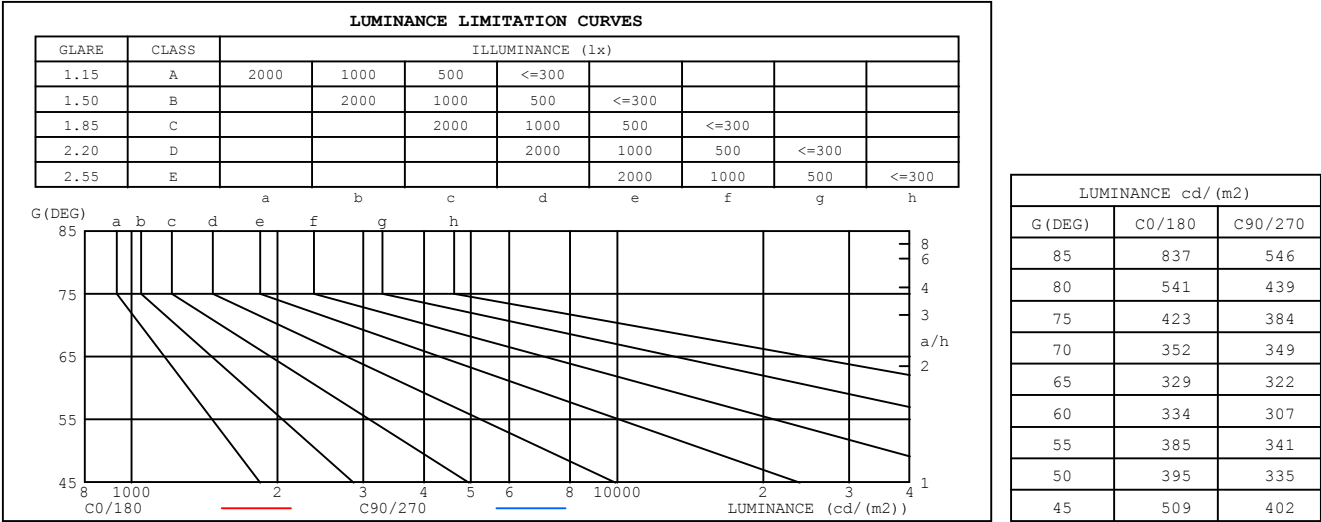
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1091	889.9	738.4	712.2	777.3	951.8	1186	1228	0~ 10	123.8	123.8	39.7,13.8
20	309.8	244.0	146.6	139.8	153.1	217.7	306.4	337.4	10~ 20	141.6	265.4	85.2,29.5
30	15.21	12.69	11.83	10.49	11.61	13.87	18.05	17.47	20~ 30	34.13	299.5	96.2,33.3
40	5.320	4.739	4.736	4.293	4.210	5.245	5.982	6.220	30~ 40	5.348	304.9	97.9,33.9
50	2.544	2.431	2.156	1.563	1.835	1.959	2.784	2.173	40~ 50	2.542	307.4	98.7,34.2
60	1.670	1.061	1.537	0.9364	1.205	0.9290	1.711	1.499	50~ 60	1.516	308.9	99.2,34.3
70	1.206	0.8399	1.194	0.7491	0.8184	0.6965	1.061	1.014	60~ 70	1.093	310.0	99.6,34.4
80	0.9401	0.5857	0.7631	0.5284	0.6078	0.5088	0.7181	0.7602	70~ 80	0.8663	310.9	99.8,34.5
90	0.4092	0.1548	0.1768	0.2093	0.1880	0.1216	0.2100	0.3085	80~ 90	0.5054	311.4	100,34.6
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		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



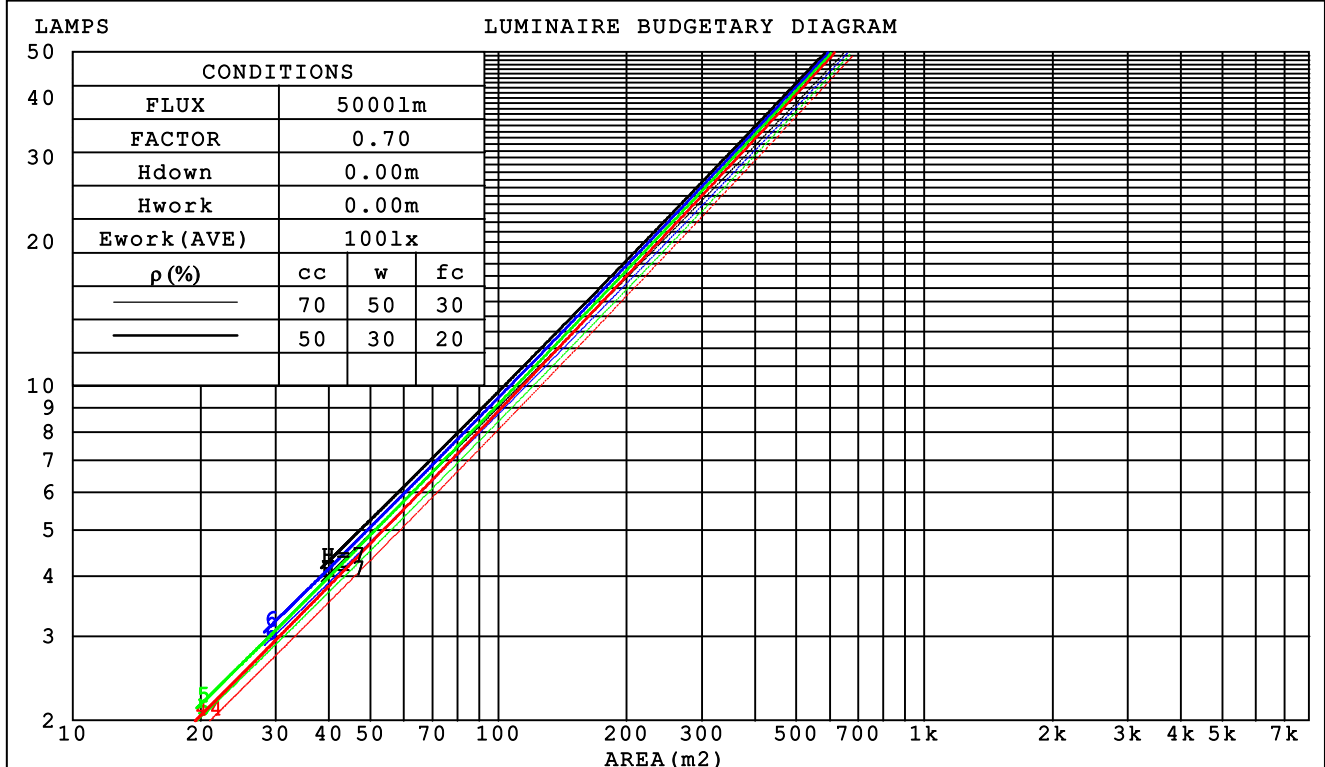
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	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	.41	.41	.41	.40	.40	.40	.38	.38	.38	.37	.37	.37	.35	.35	.35	.35
1.0	.39	.38	.38	.38	.38	.37	.37	.37	.36	.36	.35	.35	.35	.34	.34	.33
2.0	.37	.36	.35	.37	.36	.35	.36	.35	.34	.35	.34	.34	.34	.33	.33	.32
3.0	.36	.35	.34	.35	.34	.33	.35	.34	.33	.34	.33	.32	.33	.32	.32	.31
4.0	.35	.33	.32	.34	.33	.32	.33	.32	.32	.33	.32	.31	.32	.32	.31	.31
5.0	.33	.32	.31	.33	.32	.31	.33	.31	.31	.32	.31	.30	.32	.31	.30	.30
6.0	.32	.31	.30	.32	.31	.30	.32	.31	.30	.31	.30	.30	.31	.30	.29	.29
7.0	.31	.30	.29	.31	.30	.29	.31	.30	.29	.30	.29	.29	.30	.29	.29	.28
8.0	.31	.29	.28	.30	.29	.28	.30	.29	.28	.30	.29	.28	.29	.29	.28	.28
9.0	.30	.28	.28	.30	.28	.27	.29	.28	.27	.29	.28	.27	.29	.28	.27	.27
10.0	.29	.28	.27	.29	.28	.27	.29	.28	.27	.28	.27	.27	.28	.27	.27	.26



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 彭金英
Test Date: 2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity: 60%
Test Distance: 12.350m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm					
NAME: WWV220I			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: SAT			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	.047	.027	.008	.045	.025	.008	.040	.023	.007	.036	.021	.007	.033	.019	.006		
2.0	.043	.024	.007	.041	.023	.007	.038	.021	.006	.034	.019	.006	.031	.018	.006		
3.0	.040	.021	.006	.038	.020	.006	.035	.019	.006	.033	.018	.005	.030	.017	.005		
4.0	.037	.019	.006	.036	.019	.006	.033	.018	.005	.031	.017	.005	.029	.016	.005		
5.0	.035	.018	.005	.034	.017	.005	.032	.016	.005	.030	.016	.005	.028	.015	.004		
6.0	.033	.016	.005	.032	.016	.005	.030	.015	.004	.028	.015	.004	.027	.014	.004		
7.0	.031	.015	.004	.030	.015	.004	.029	.014	.004	.027	.014	.004	.026	.013	.004		
8.0	.029	.014	.004	.029	.014	.004	.027	.014	.004	.026	.013	.004	.025	.013	.004		
9.0	.028	.014	.004	.027	.013	.004	.026	.013	.004	.025	.013	.004	.024	.012	.004		
10.0	.027	.013	.004	.026	.013	.004	.025	.012	.003	.024	.012	.003	.023	.012	.003		

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	.066	.066	.066	.056	.056	.056	.038	.038	.038	.022	.022	.022	.007	.007	.007	
1.0	.058	.055	.051	.050	.047	.044	.034	.032	.031	.020	.019	.018	.006	.006	.006	
2.0	.052	.046	.041	.044	.040	.035	.030	.027	.025	.018	.016	.014	.006	.005	.005	
3.0	.047	.039	.033	.040	.034	.029	.027	.023	.020	.016	.014	.012	.005	.004	.004	
4.0	.042	.034	.027	.036	.029	.024	.025	.020	.017	.014	.012	.010	.005	.004	.003	
5.0	.038	.030	.023	.033	.026	.020	.023	.018	.014	.013	.010	.008	.004	.003	.003	
6.0	.035	.026	.019	.030	.023	.017	.021	.016	.012	.012	.009	.007	.004	.003	.002	
7.0	.033	.023	.017	.028	.020	.015	.019	.014	.010	.011	.008	.006	.004	.003	.002	
8.0	.030	.021	.014	.026	.018	.013	.018	.013	.009	.010	.007	.005	.003	.002	.002	
9.0	.028	.019	.013	.024	.016	.011	.017	.012	.008	.010	.007	.005	.003	.002	.002	
10.0	.027	.017	.011	.023	.015	.010	.016	.011	.007	.009	.006	.004	.003	.002	.001	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2026-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity:60%
 Test Distance:12.350m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm										
NAME: WWV220I					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: SAT					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	-0.8	-0.2	-0.6	-0.1	0.1	-1.4	-0.7	-1.2	-0.6	-0.4
3H	0.4	1.0	0.7	1.2	1.4	0.0	0.6	0.3	0.8	1.0
4H	1.3	1.9	1.6	2.1	2.3	0.9	1.5	1.2	1.7	1.9
6H	2.4	2.9	2.7	3.2	3.4	1.8	2.4	2.1	2.6	2.8
8H	3.0	3.5	3.3	3.8	4.0	2.3	2.8	2.6	3.0	3.3
12H	3.7	4.2	4.0	4.4	4.7	2.7	3.2	3.0	3.5	3.7
4H 2H	-0.6	-0.1	-0.4	0.1	0.3	-1.1	-0.5	-0.8	-0.3	-0.1
3H	0.9	1.4	1.2	1.6	1.9	0.6	1.1	0.9	1.3	1.6
4H	2.0	2.5	2.3	2.7	3.0	1.7	2.1	2.0	2.4	2.7
6H	3.3	3.7	3.7	4.1	4.4	2.8	3.2	3.1	3.5	3.9
8H	4.1	4.5	4.5	4.8	5.2	3.4	3.7	3.7	4.1	4.4
12H	4.9	5.2	5.3	5.6	6.0	3.9	4.2	4.3	4.6	5.0
8H 4H	2.3	2.6	2.6	3.0	3.3	2.0	2.3	2.3	2.7	3.0
6H	3.8	4.1	4.2	4.5	4.9	3.3	3.6	3.7	4.0	4.4
8H	4.7	5.0	5.1	5.4	5.8	4.0	4.3	4.4	4.7	5.1
12H	5.7	5.9	6.2	6.4	6.8	4.7	4.9	5.1	5.4	5.8
12H 4H	2.3	2.7	2.7	3.0	3.4	2.0	2.4	2.4	2.7	3.1
6H	3.9	4.2	4.3	4.6	5.0	3.4	3.7	3.8	4.1	4.5
8H	4.9	5.1	5.3	5.5	6.0	4.2	4.4	4.7	4.9	5.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.5 / - 0.3					+ 0.4 / - 0.2				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2				

CIE Pub.117, 900.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.4$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2026-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity: 60%
 Test Distance: 12.350m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

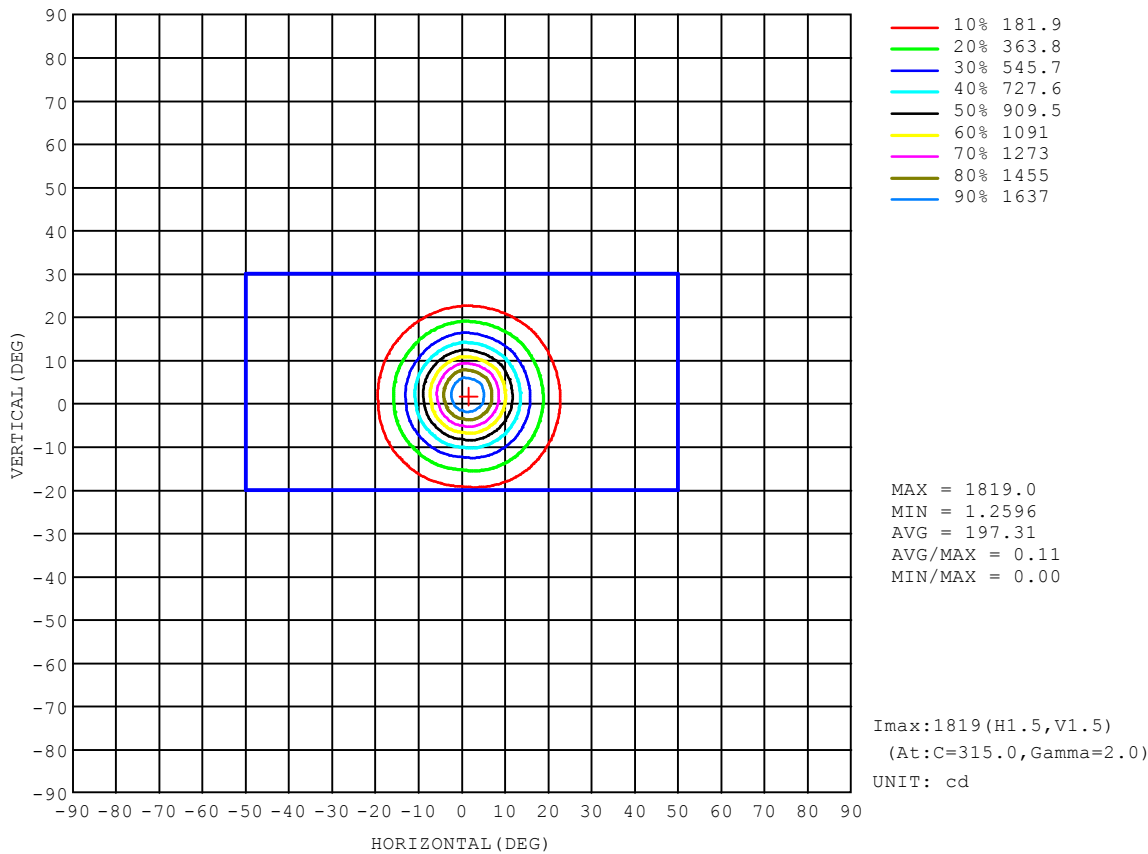
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	31	29	28	31	29	28	31	29	28	27
0.80	34	32	31	33	32	31	33	31	30	29
1.00	35	33	32	35	33	32	34	33	32	31
1.25	36	35	33	36	34	33	35	34	33	32
1.50	37	36	35	37	35	34	36	35	34	33
2.00	38	37	35	37	36	35	36	35	35	33
2.50	38	37	36	38	37	36	37	36	35	33
3.00	39	38	37	38	37	37	37	36	36	34
4.00	40	39	38	39	38	37	38	37	37	34
5.00	40	39	39	39	39	38	38	37	37	34
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: 25.3DEG
 Operators: 彭金英
 Test Date: 2026-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity: 60%
 Test Distance: 12.350m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

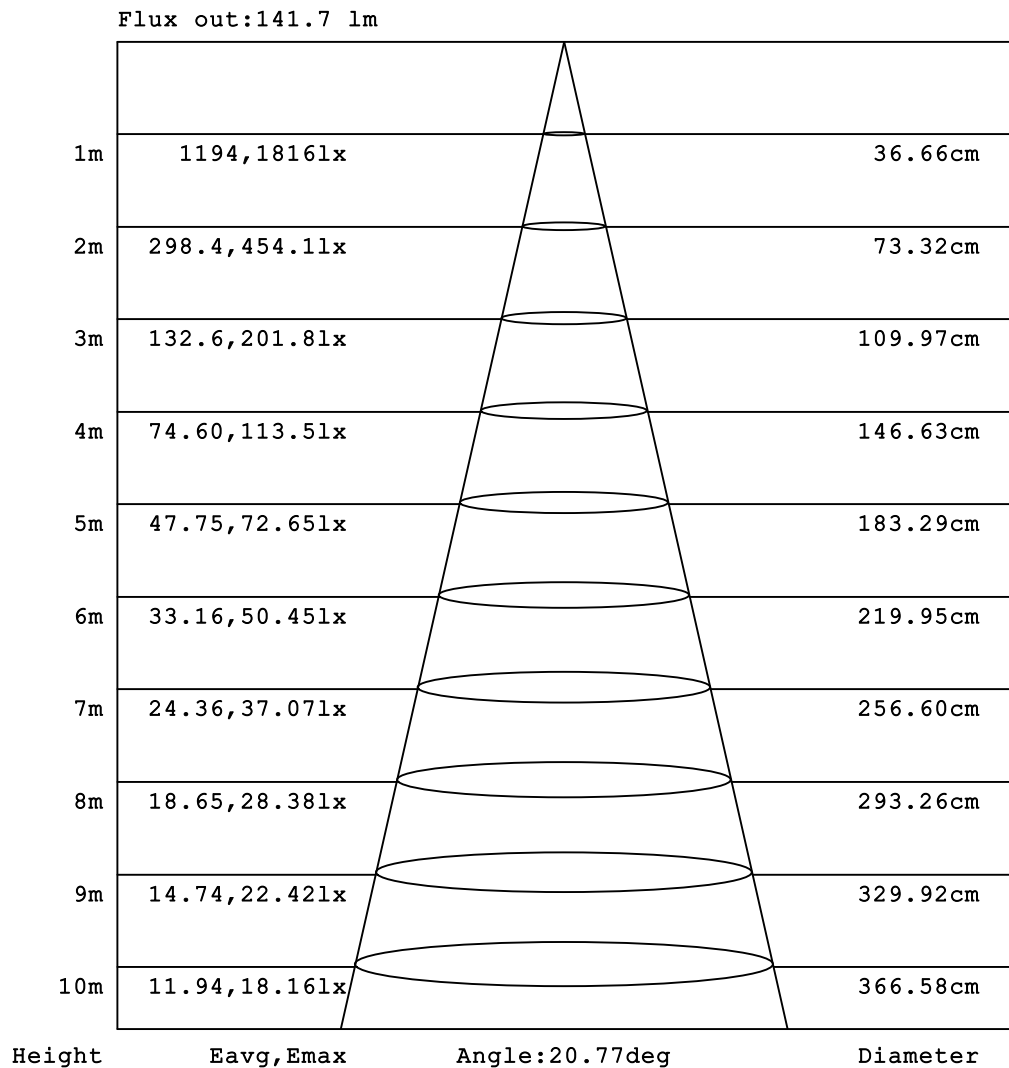


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



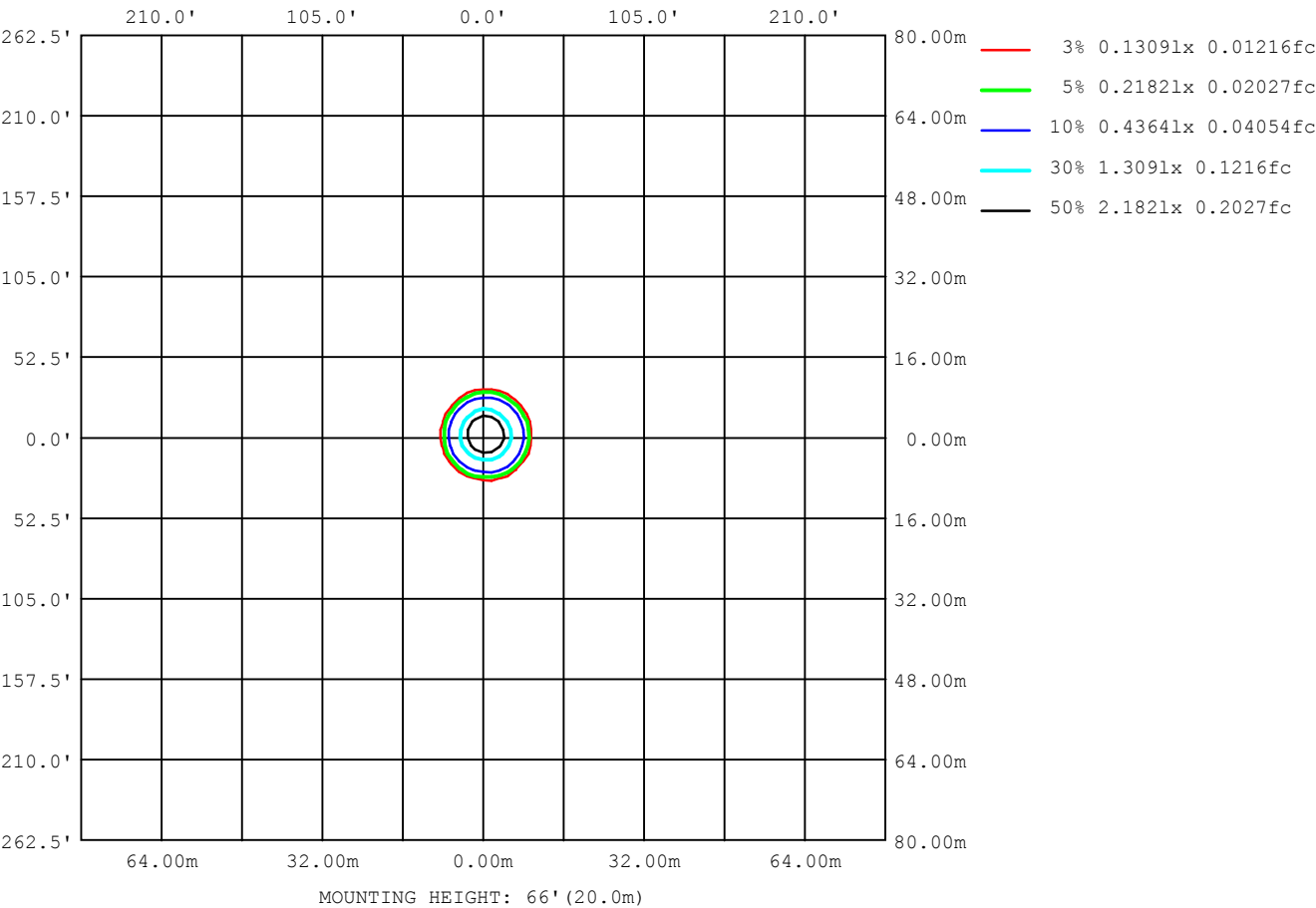
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2026-01-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
 Humidity:60%
 Test Distance:12.350m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

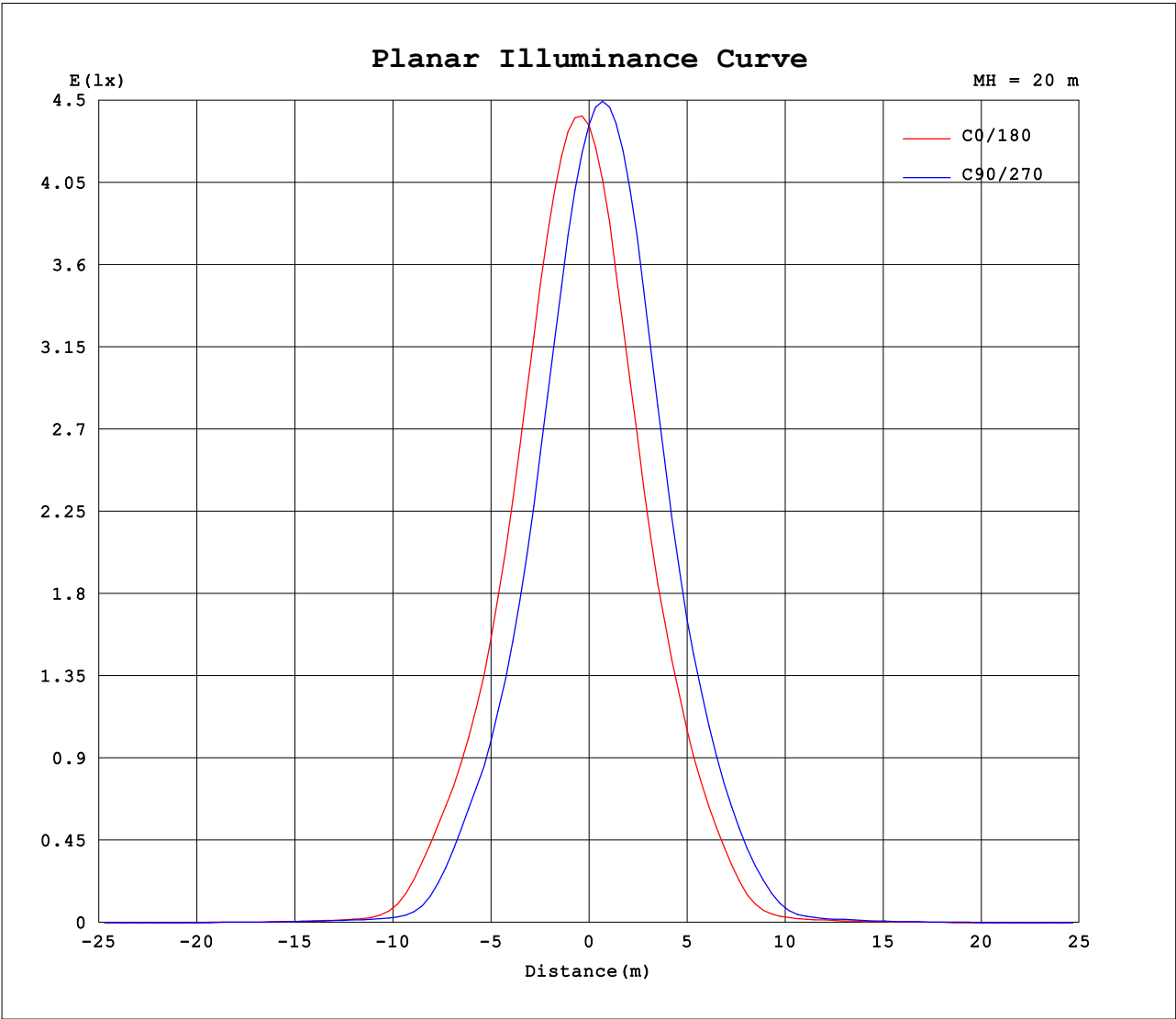
AvgL	cd/m2
L_0~180 (65) av	289
L_0~180 (75) av	350
L_0~180 (85) av	634
L_90~270 (65) av	311
L_90~270 (75) av	369
L_90~270 (85) av	539
L_45 (65) av	221
L_45 (75) av	271
L_45 (85) av	494

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.07V I:0.0877A P:11.745W PF:0.6088 Freq:49.99Hz Lamp Flux:900x1 lm		
NAME: WWV220I	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.404.6
Humidity:60%
Test Distance:12.350m [K=1.0000]
Remarks:

```