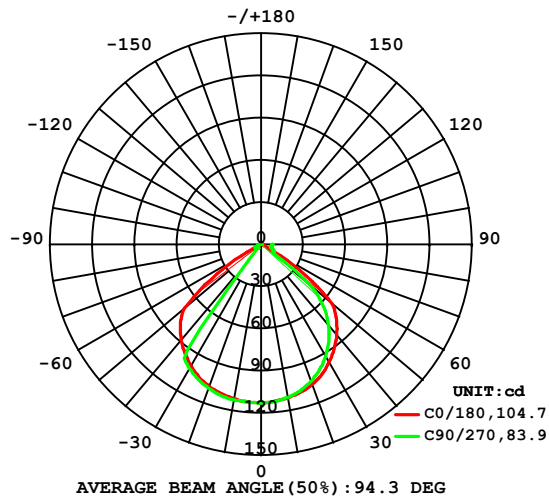


LUMINAIRE PHOTOMETRIC TEST REPORT

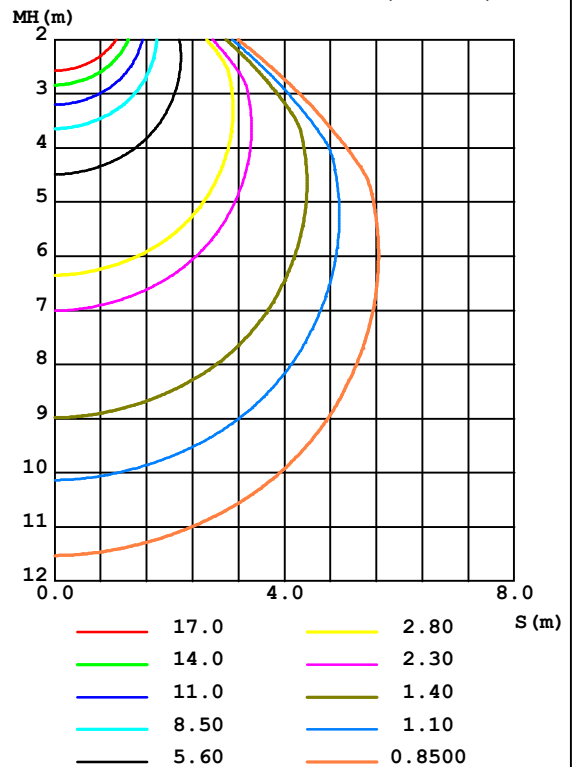
Test:U:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 25.25 lm/W
MODEL	Bridgelux 2835	I _{max} (cd)	112.9	S/MH(C0/180)	1.31	
NOMINAL POWER(W)	8	LOR(%)	26.8	S/MH(C90/270)	1.05	
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	214.49	η UP,DN(C0-180)	0.0,14.2	
NOMINAL FLUX(lm)	800	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,12.6	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	220	η down(%)	26.8	CIBSE SHR MAX	1.15	

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:

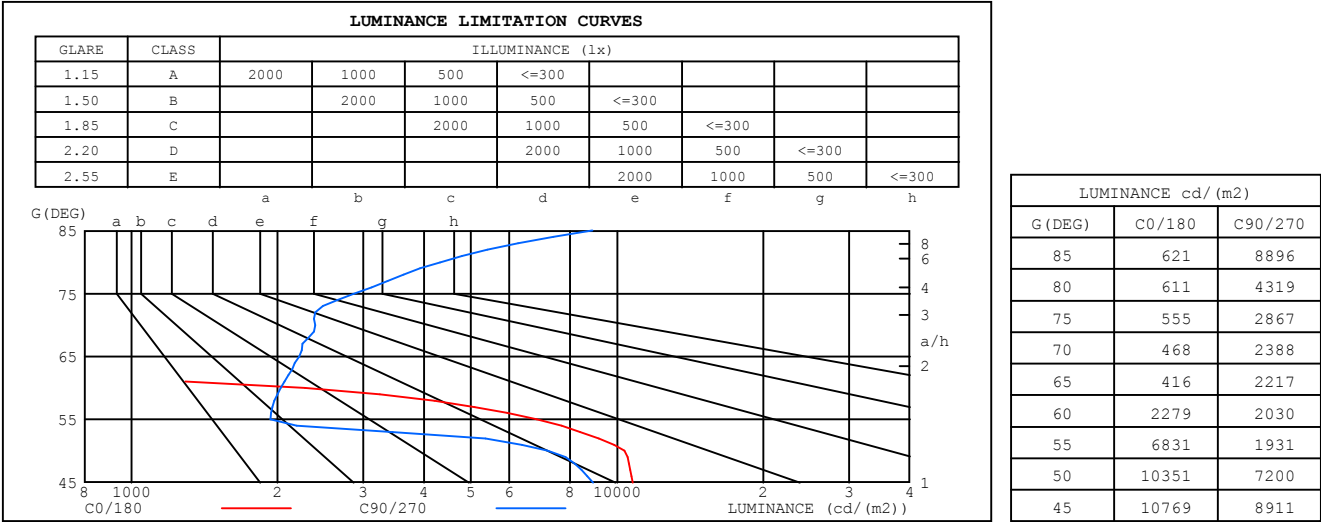
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	110.8	110.5	110.5	110.9	111.6	112.2	112.3	111.6	0~ 10	10.69	10.69	4.99,1.34
20	106.2	104.8	103.8	105.7	107.7	109.0	109.0	107.8	10~ 20	30.92	41.61	19.4,5.2
30	97.00	94.67	92.10	95.91	99.83	101.7	102.1	99.80	20~ 30	47.40	89.01	41.5,11.1
40	83.93	77.33	74.56	81.24	88.47	90.54	3.801	87.96	30~ 40	54.86	143.9	67.1,18
50	66.43	29.27	46.29	39.89	71.31	20.26	4.719	3.020	40~ 50	43.19	187.1	87.2,23.4
60	11.38	7.774	10.15	8.748	16.46	2.894	4.991	3.329	50~ 60	16.56	203.6	94.9,25.5
70	1.599	5.576	8.168	6.955	2.270	2.817	2.436	2.424	60~ 70	5.124	208.8	97.3,26.1
80	1.059	3.556	7.502	5.141	1.278	0.5438	0.5631	0.4868	70~ 80	3.286	212.0	98.9,26.5
90	0.2316	3.059	7.966	4.369	0.3198	0.1546	0.3646	0.2102	80~ 90	2.454	214.5	100,26.8
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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



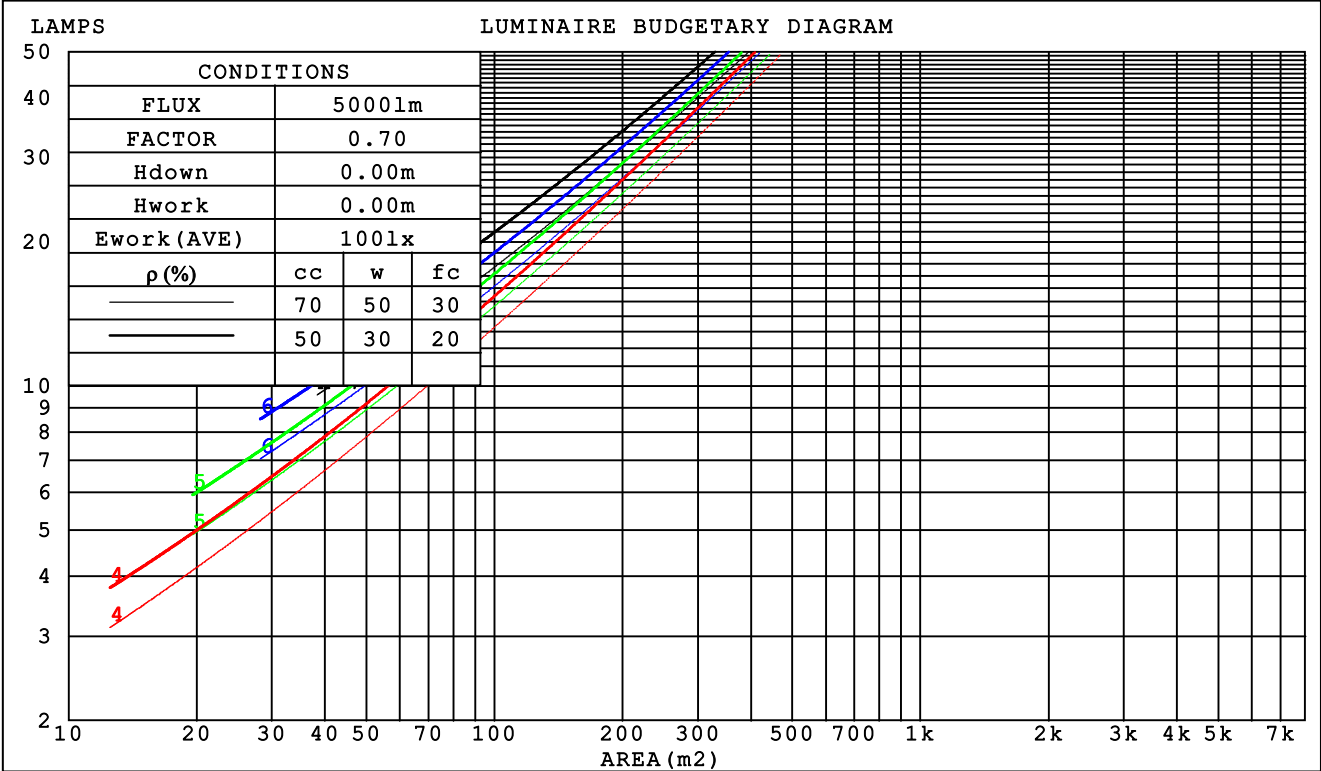
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	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	.32	.32	.32	.31	.31	.31	.30	.30	.30	.29	.29	.29	.27	.27	.27	.27
1.0	.29	.28	.27	.28	.28	.27	.27	.27	.26	.26	.26	.25	.25	.25	.24	.24
2.0	.26	.25	.24	.26	.24	.23	.25	.24	.23	.24	.23	.22	.23	.22	.22	.21
3.0	.24	.22	.21	.23	.22	.20	.23	.21	.20	.22	.21	.20	.21	.20	.19	.19
4.0	.22	.20	.18	.21	.19	.18	.21	.19	.18	.20	.19	.18	.19	.18	.17	.17
5.0	.20	.18	.16	.19	.17	.16	.19	.17	.16	.18	.17	.16	.18	.17	.16	.15
6.0	.18	.16	.14	.18	.16	.14	.17	.16	.14	.17	.15	.14	.16	.15	.14	.14
7.0	.16	.14	.13	.16	.14	.13	.16	.14	.13	.16	.14	.13	.15	.14	.13	.12
8.0	.15	.13	.12	.15	.13	.12	.15	.13	.12	.14	.13	.12	.14	.13	.12	.11
9.0	.14	.12	.11	.14	.12	.11	.14	.12	.11	.13	.12	.11	.13	.12	.11	.10
10.0	.13	.11	.10	.13	.11	.10	.13	.11	.10	.12	.11	.10	.12	.11	.10	.09



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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm					
NAME: WWV180R			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	.063	.036	.011	.061	.035	.011	.058	.033	.011	.055	.031	.010	.052	.030	.010		
2.0	.060	.033	.010	.059	.032	.010	.056	.031	.010	.053	.030	.009	.050	.028	.009		
3.0	.057	.030	.009	.056	.030	.009	.053	.029	.009	.051	.028	.009	.048	.027	.008		
4.0	.054	.028	.008	.053	.028	.008	.050	.027	.008	.048	.026	.008	.046	.025	.008		
5.0	.051	.026	.008	.050	.026	.007	.048	.025	.007	.046	.024	.007	.044	.024	.007		
6.0	.048	.024	.007	.047	.024	.007	.046	.023	.007	.044	.023	.007	.042	.022	.007		
7.0	.046	.023	.006	.045	.022	.006	.043	.022	.006	.042	.021	.006	.040	.021	.006		
8.0	.043	.021	.006	.043	.021	.006	.041	.021	.006	.040	.020	.006	.039	.020	.006		
9.0	.041	.020	.006	.040	.020	.006	.039	.019	.005	.038	.019	.005	.037	.019	.005		
10.0	.039	.019	.005	.039	.019	.005	.037	.018	.005	.036	.018	.005	.035	.018	.005		

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	.051	.051	.051	.044	.044	.044	.030	.030	.030	.017	.017	.017	.005	.005	.005	
1.0	.047	.042	.038	.040	.036	.032	.027	.025	.022	.016	.014	.013	.005	.005	.004	
2.0	.044	.035	.028	.037	.031	.025	.026	.021	.017	.015	.012	.010	.005	.004	.003	
3.0	.041	.031	.022	.035	.026	.019	.024	.018	.013	.014	.011	.008	.004	.003	.003	
4.0	.039	.027	.018	.033	.023	.015	.023	.016	.011	.013	.009	.006	.004	.003	.002	
5.0	.037	.024	.014	.032	.021	.012	.022	.014	.009	.013	.008	.005	.004	.003	.002	
6.0	.035	.022	.012	.030	.019	.010	.021	.013	.007	.012	.008	.004	.004	.003	.001	
7.0	.033	.020	.010	.029	.017	.009	.020	.012	.006	.012	.007	.004	.004	.002	.001	
8.0	.032	.018	.009	.027	.016	.007	.019	.011	.005	.011	.006	.003	.004	.002	.001	
9.0	.031	.017	.007	.026	.015	.006	.018	.010	.005	.011	.006	.003	.003	.002	.001	
10.0	.029	.016	.007	.025	.014	.006	.017	.010	.004	.010	.006	.002	.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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm											
NAME: WWV180R					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		18.9	20.1	19.1	20.3	20.5	17.5	18.7	17.7	18.9	19.1
	3H	18.7	19.9	19.0	20.1	20.3	17.9	19.0	18.2	19.2	19.5
	4H	18.7	19.7	19.0	20.0	20.2	18.2	19.3	18.5	19.6	19.8
	6H	18.6	19.6	18.9	19.9	20.1	19.0	20.0	19.3	20.2	20.5
	8H	18.6	19.5	18.9	19.8	20.1	19.5	20.5	19.9	20.8	21.1
	12H	18.5	19.5	18.9	19.8	20.0	20.4	21.3	20.7	21.6	21.9
4H	2H	18.7	19.8	19.0	20.0	20.2	17.4	18.5	17.7	18.7	19.0
	3H	18.6	19.5	18.9	19.8	20.1	18.0	18.9	18.3	19.2	19.5
	4H	18.6	19.4	19.0	19.7	20.1	18.5	19.3	18.8	19.6	20.0
	6H	18.6	19.3	19.0	19.7	20.0	19.5	20.2	19.9	20.6	20.9
	8H	18.6	19.3	19.0	19.6	20.0	20.3	21.0	20.7	21.3	21.7
	12H	18.6	19.2	19.0	19.6	20.0	21.4	22.0	21.8	22.4	22.8
8H	4H	18.6	19.3	19.0	19.7	20.0	18.5	19.2	18.9	19.6	19.9
	6H	18.7	19.3	19.2	19.7	20.1	19.8	20.3	20.2	20.7	21.1
	8H	18.8	19.3	19.2	19.7	20.1	20.7	21.2	21.2	21.6	22.1
	12H	18.8	19.3	19.3	19.7	20.2	22.1	22.6	22.6	23.0	23.5
12H	4H	18.6	19.3	19.1	19.7	20.1	18.5	19.1	18.9	19.5	19.9
	6H	18.8	19.3	19.3	19.7	20.2	19.8	20.3	20.2	20.7	21.1
	8H	18.9	19.4	19.4	19.8	20.3	20.8	21.3	21.3	21.7	22.2
Variations with the observer position at spacings:											
S = 1.0H		+ 1.1 / - 1.6					+ 0.8 / - 0.9				
1.5H		+ 1.7 / - 3.2					+ 0.8 / - 1.5				
2.0H		+ 4.0 / - 5.2					+ 2.4 / - 1.2				

CIE Pub.117, 800.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.8$)

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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

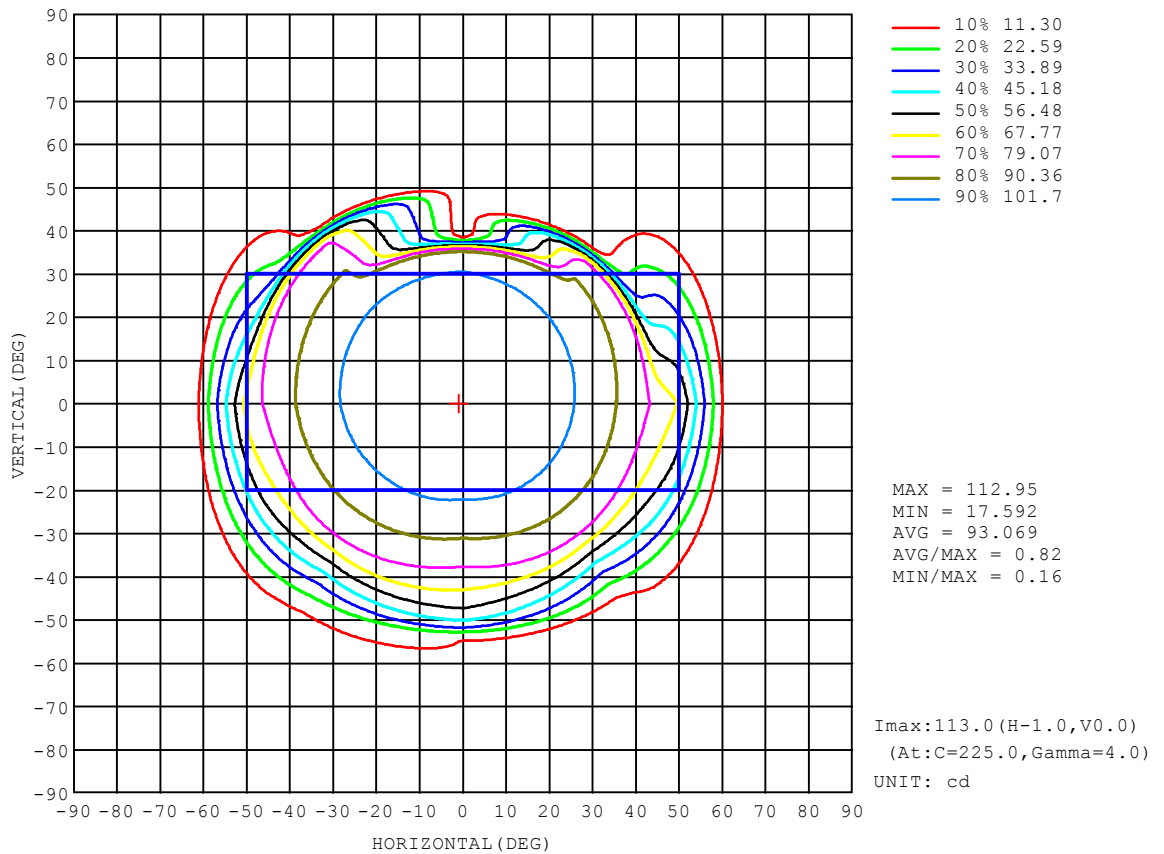
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	19	16	15	19	16	15	18	16	15	13
0.80	22	19	18	21	19	18	21	19	18	16
1.00	24	21	20	23	21	20	23	21	20	18
1.25	25	23	22	25	23	22	24	23	21	20
1.50	26	24	23	26	24	23	25	24	23	21
2.00	28	26	25	27	26	25	26	25	24	22
2.50	28	27	26	28	26	25	27	26	25	23
3.00	29	28	26	28	27	26	27	26	26	24
4.00	30	28	28	29	28	27	28	27	26	24
5.00	30	29	28	29	29	28	28	28	27	25
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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

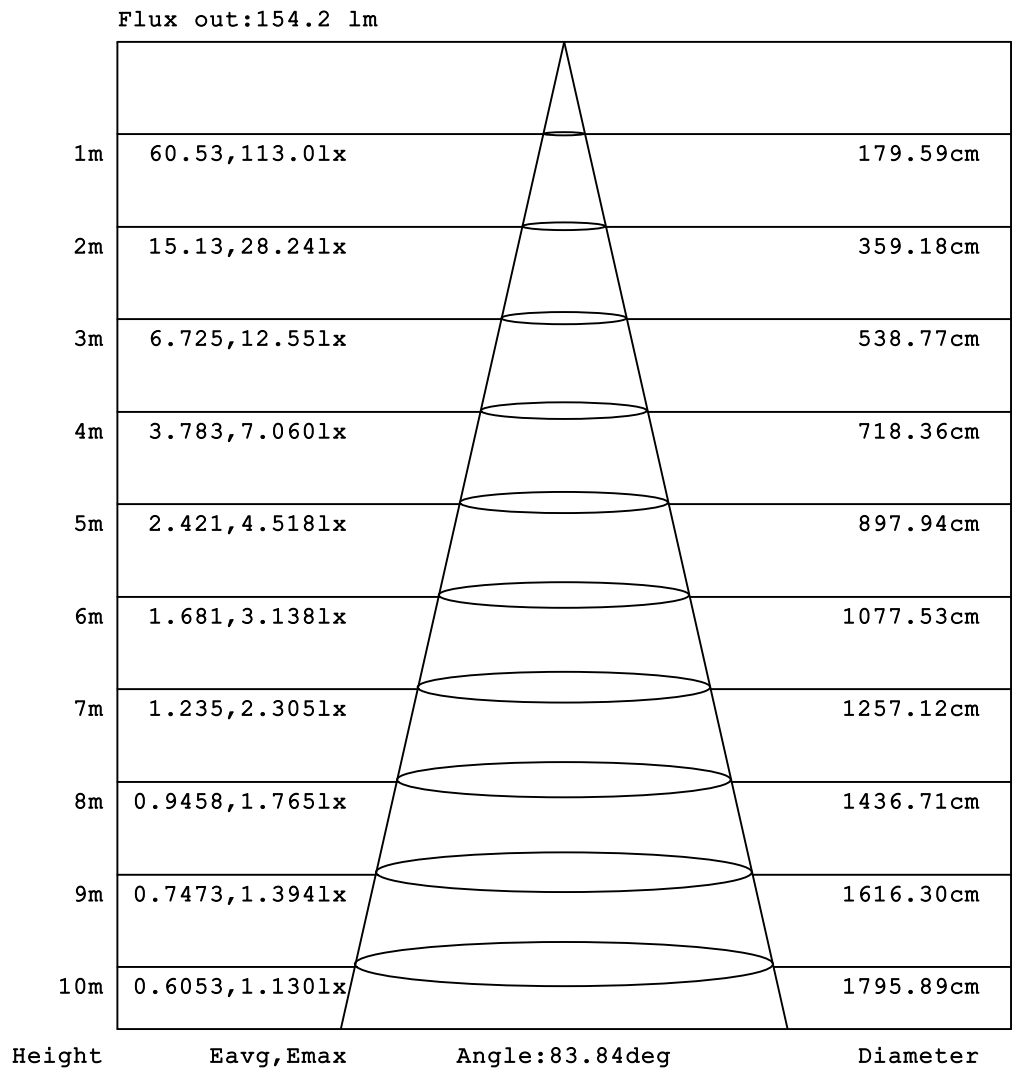


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-07

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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



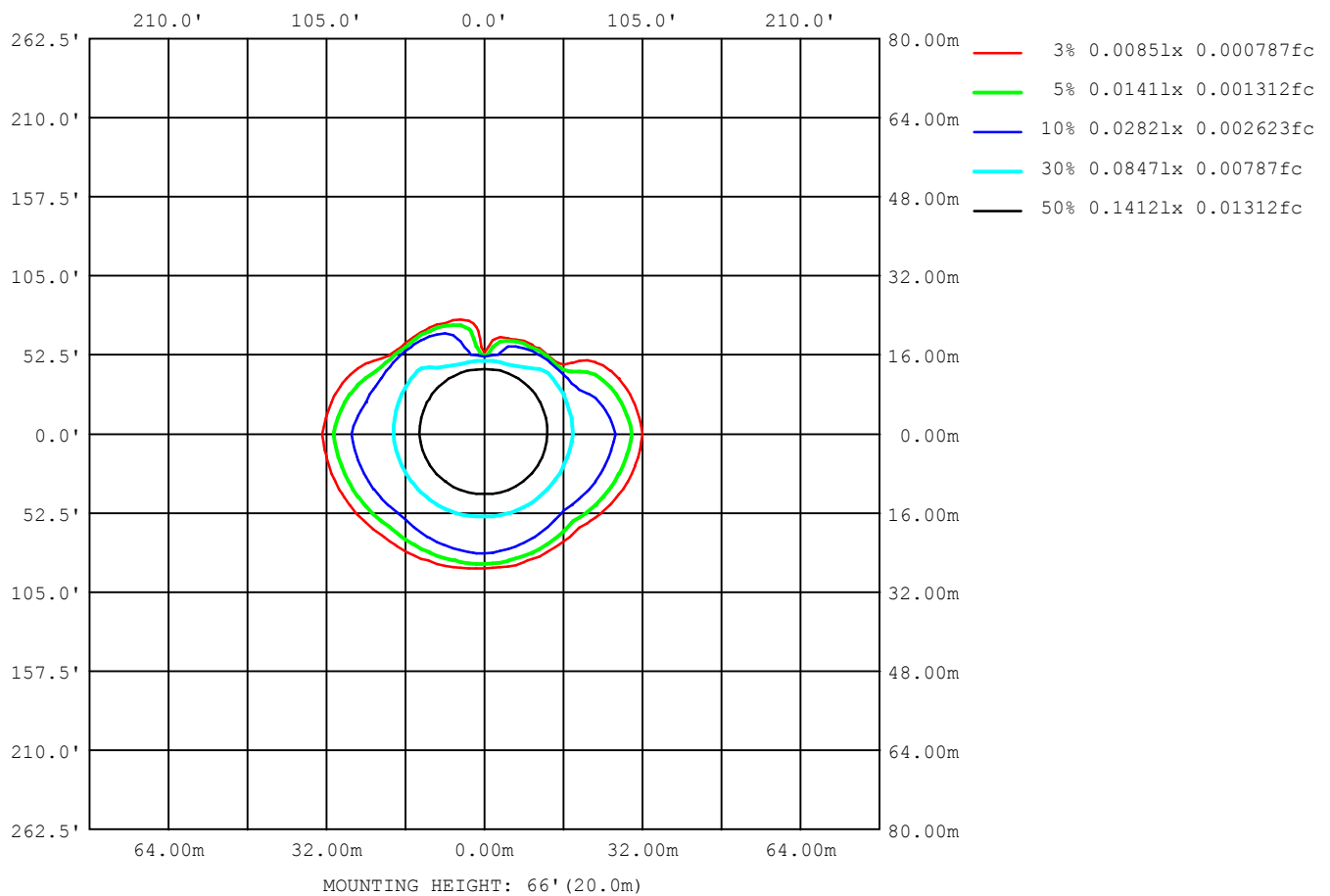
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

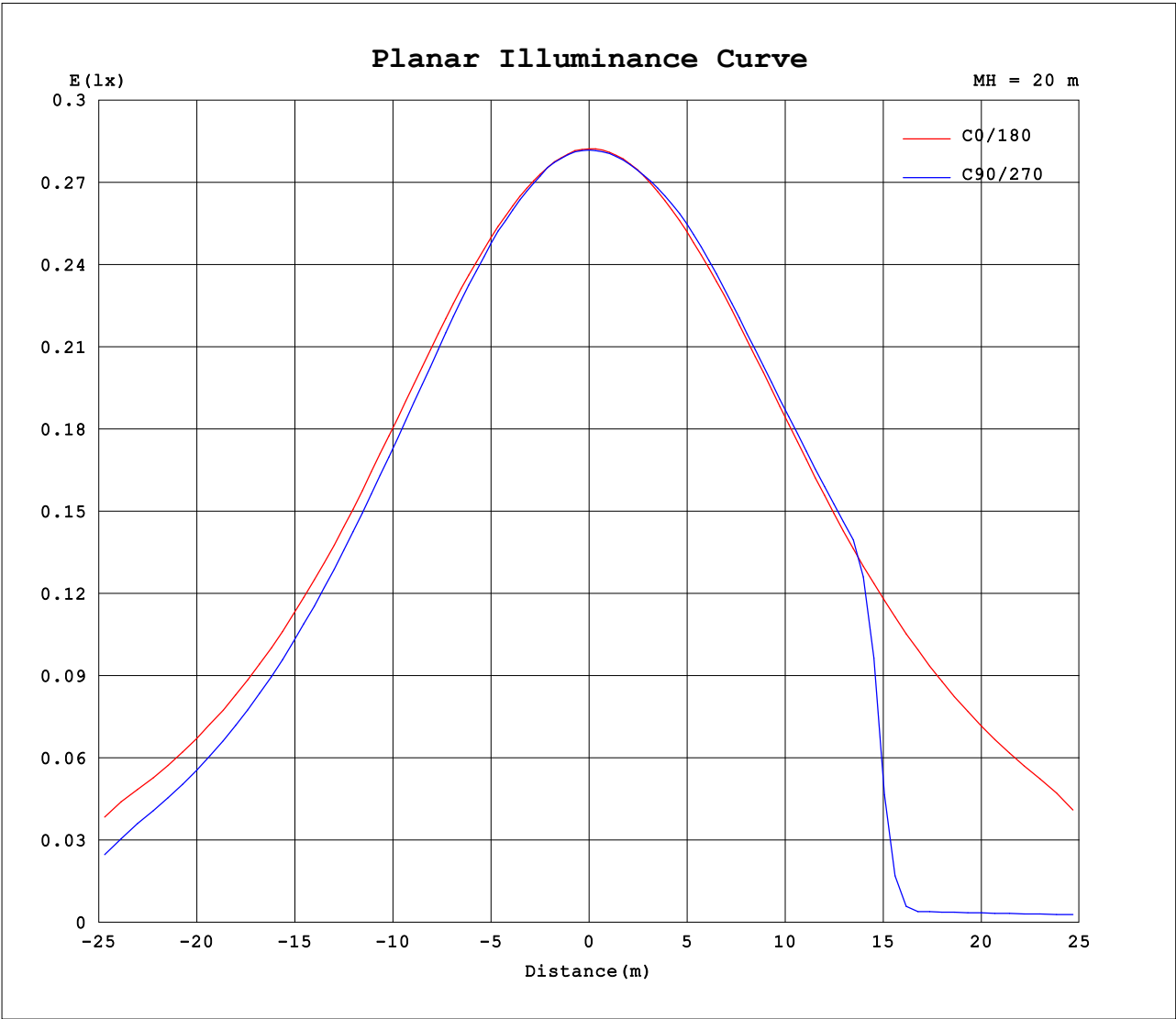
AvgL	cd/m2
L_0~180 (65) av	567
L_0~180 (75) av	613
L_0~180 (85) av	771
L_90~270 (65) av	1602
L_90~270 (75) av	1570
L_90~270 (85) av	4702
L_45 (65) av	1234
L_45 (75) av	1258
L_45 (85) av	2410

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:220.21V I:0.0409A P:8.4956W PF:0.9436 Freq:49.99Hz Lamp Flux:800x1 lm		
NAME: WWV180R	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:

```