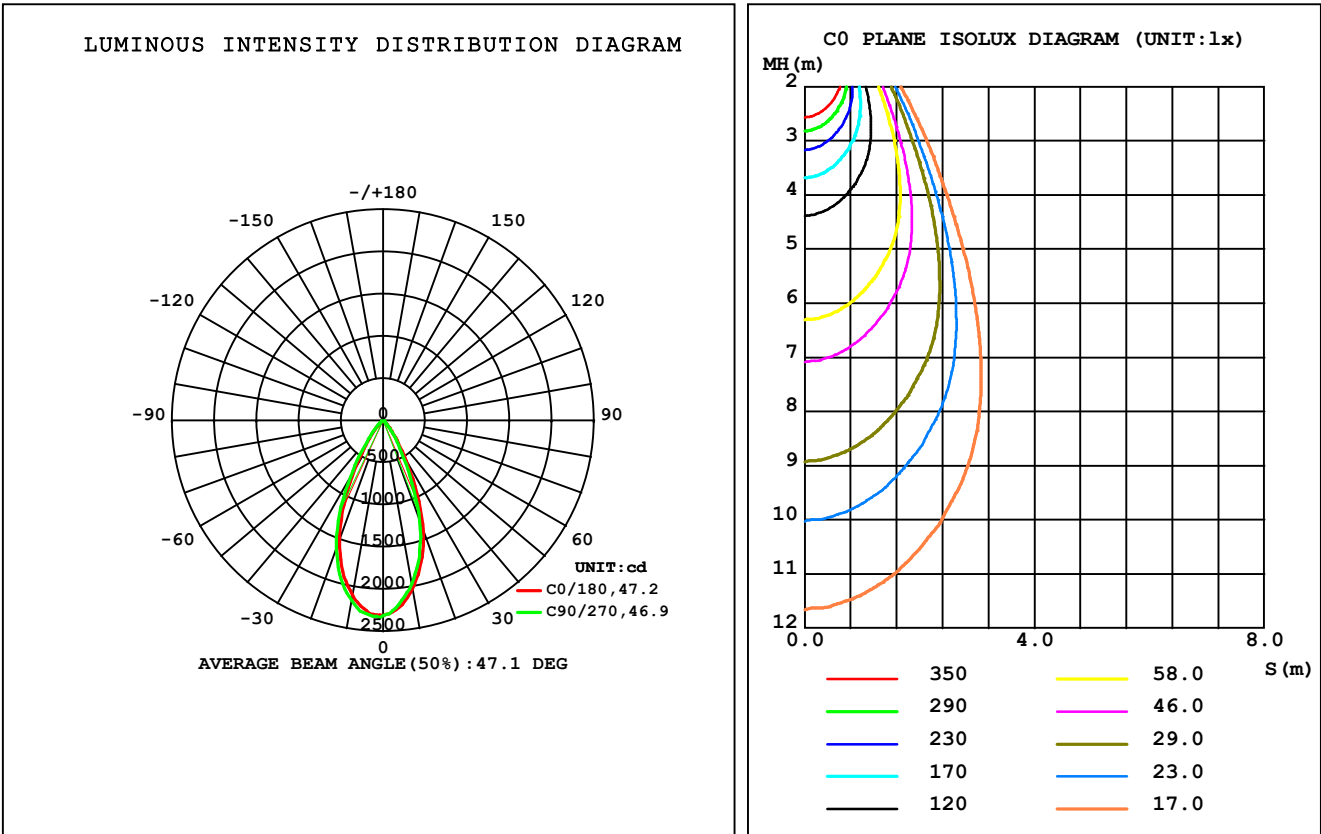


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.07V I:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 41.03 lm/W
MODEL	TOYO 3030/3535	I _{max} (cd)	2335	S/MH (C0/180)	0.76	
NOMINAL POWER(W)	40	LOR (%)	36.7	S/MH (C90/270)	0.79	
RATED VOLTAGE(V)	220-240	TOTAL FLUX (lm)	1467.0	η UP, DN (C0-180)	0.0,16.5	
NOMINAL FLUX(lm)	4000	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0,20.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE (V)	220	η down (%)	36.7	CIBSE SHR MAX	0.75	



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-08

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:

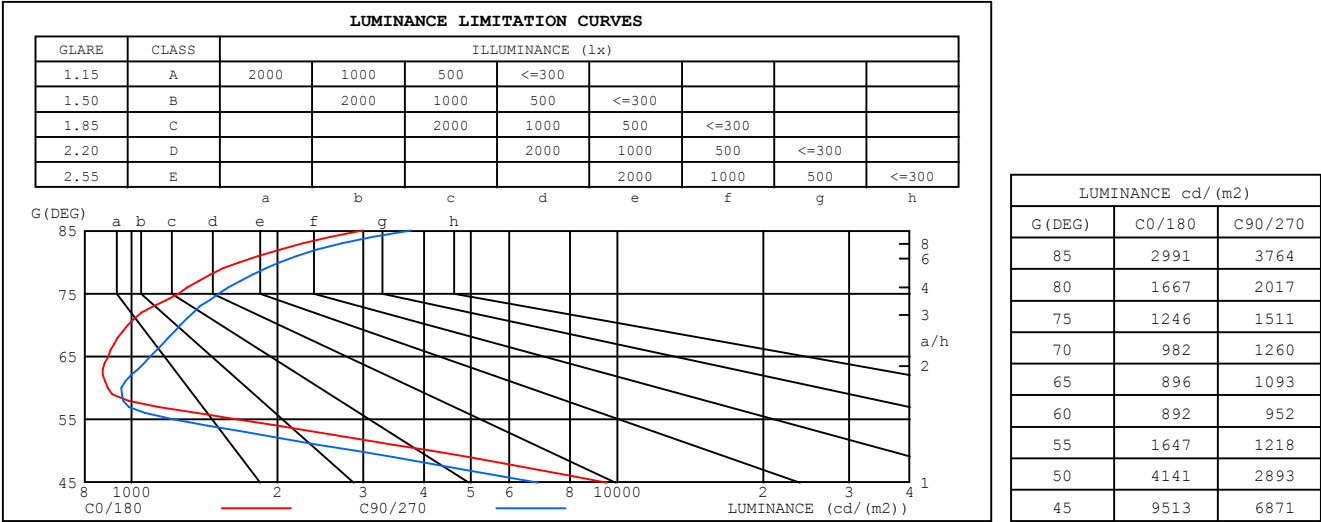
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2026	1961	1968	2037	2098	2151	2167	2102	0~ 10	208.5	208.5	14.2,5.21
20	1404	1285	1278	1394	1525	1609	1630	1520	10~ 20	496.9	705.4	48.1,17.6
30	552.7	478.6	453.3	560.4	682.5	785.3	779.0	668.4	20~ 30	465.8	1171	79.8,29.3
40	148.4	120.4	115.0	140.7	178.5	214.6	215.6	181.0	30~ 40	214.3	1386	94.4,34.6
50	26.62	20.22	18.64	23.29	30.54	41.52	42.61	35.40	40~ 50	62.22	1448	98.7,36.2
60	4.462	3.925	4.773	3.764	3.520	3.900	4.260	3.805	50~ 60	11.12	1459	99.4,36.5
70	3.358	3.880	4.318	2.835	2.440	1.628	1.471	2.127	60~ 70	3.165	1462	99.7,36.6
80	2.894	3.254	3.510	2.514	1.965	1.144	0.8738	1.661	70~ 80	2.631	1465	99.8,36.6
90	2.827	4.079	4.439	3.400	1.601	1.066	0.7417	1.573	80~ 90	2.337	1467	100,36.7
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:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



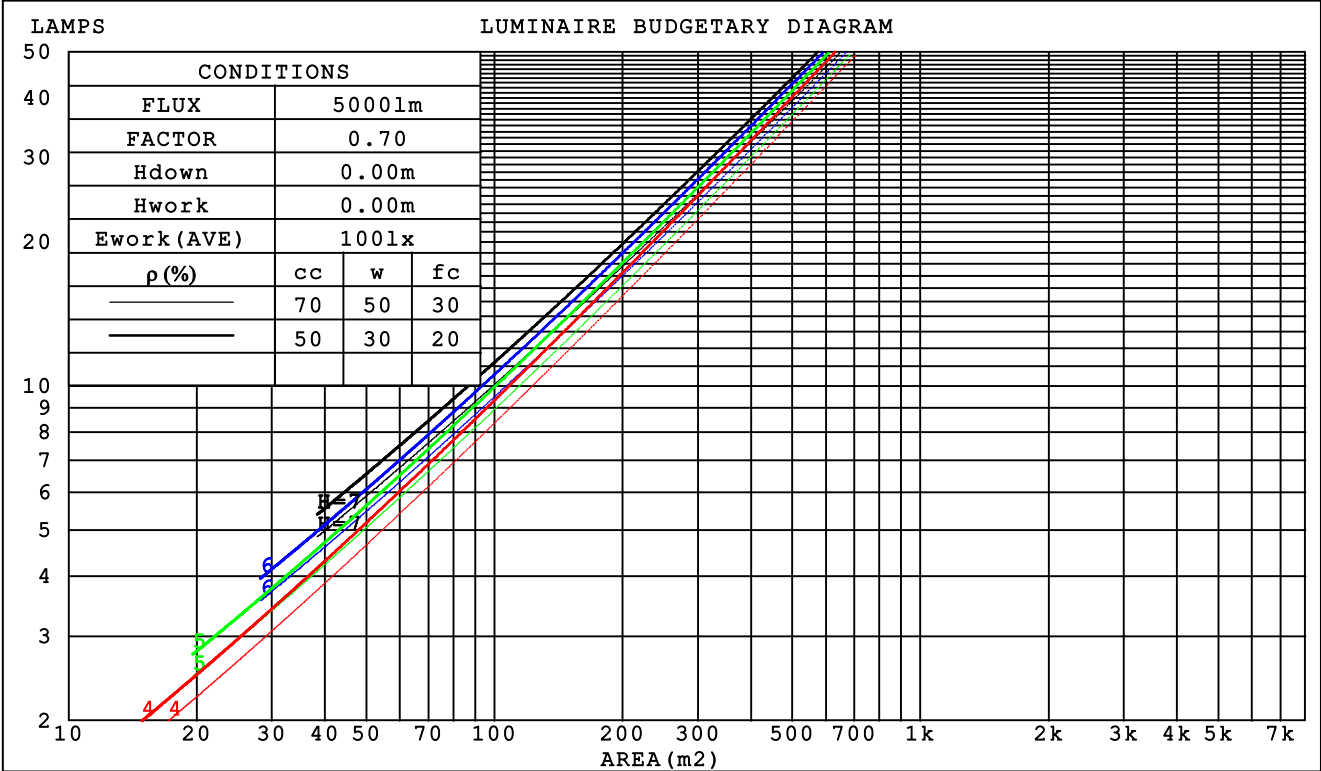
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	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	.44	.44	.44	.43	.43	.43	.41	.41	.41	.39	.39	.39	.37	.37	.37	.37
1.0	.41	.40	.39	.40	.39	.39	.39	.38	.37	.37	.37	.36	.36	.36	.35	.35
2.0	.38	.37	.36	.38	.36	.35	.36	.35	.34	.35	.34	.34	.34	.34	.33	.32
3.0	.36	.34	.33	.35	.34	.33	.34	.33	.32	.34	.32	.32	.33	.32	.31	.30
4.0	.34	.32	.30	.33	.32	.30	.33	.31	.30	.32	.31	.30	.31	.30	.29	.29
5.0	.32	.30	.28	.31	.30	.28	.31	.29	.28	.30	.29	.28	.30	.28	.28	.27
6.0	.30	.28	.27	.30	.28	.27	.29	.28	.26	.29	.27	.26	.28	.27	.26	.25
7.0	.28	.26	.25	.28	.26	.25	.28	.26	.25	.27	.26	.25	.27	.26	.25	.24
8.0	.27	.25	.24	.27	.25	.24	.26	.25	.23	.26	.25	.23	.26	.24	.23	.23
9.0	.26	.24	.22	.26	.24	.22	.25	.23	.22	.25	.23	.22	.25	.23	.22	.22
10.0	.25	.23	.21	.24	.22	.21	.24	.22	.21	.24	.22	.21	.24	.22	.21	.21



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm					
NAME: SLV1200X			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	.062	.035	.011	.060	.034	.011	.055	.032	.010	.051	.029	.009	.047	.027	.009				
2.0	.059	.032	.010	.057	.031	.010	.053	.029	.009	.049	.028	.009	.046	.026	.008				
3.0	.056	.030	.009	.054	.029	.009	.051	.028	.008	.048	.026	.008	.045	.025	.008				
4.0	.053	.028	.008	.052	.027	.008	.049	.026	.008	.046	.025	.007	.044	.024	.007				
5.0	.050	.026	.007	.049	.025	.007	.047	.024	.007	.044	.023	.007	.042	.023	.007				
6.0	.048	.024	.007	.047	.024	.007	.045	.023	.007	.043	.022	.007	.041	.022	.006				
7.0	.046	.023	.006	.045	.022	.006	.043	.022	.006	.041	.021	.006	.040	.021	.006				
8.0	.044	.022	.006	.043	.021	.006	.042	.021	.006	.040	.020	.006	.038	.020	.006				
9.0	.042	.020	.006	.041	.020	.006	.040	.020	.006	.039	.019	.006	.037	.019	.005				
10.0	.041	.019	.005	.040	.019	.005	.039	.019	.005	.037	.018	.005	.036	.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	.070	.070	.070	.060	.060	.060	.041	.041	.041	.023	.023	.023	.007	.007	.007	
1.0	.063	.058	.053	.054	.050	.046	.037	.034	.032	.021	.020	.018	.007	.006	.006	
2.0	.057	.049	.042	.049	.042	.036	.033	.029	.025	.019	.017	.015	.006	.005	.005	
3.0	.052	.042	.033	.045	.036	.029	.031	.025	.020	.018	.015	.012	.006	.005	.004	
4.0	.048	.036	.027	.041	.031	.024	.028	.022	.017	.016	.013	.010	.005	.004	.003	
5.0	.045	.032	.022	.038	.028	.019	.026	.019	.014	.015	.011	.008	.005	.004	.003	
6.0	.042	.028	.019	.036	.025	.016	.025	.017	.012	.014	.010	.007	.005	.003	.002	
7.0	.040	.026	.016	.034	.022	.014	.023	.016	.010	.014	.009	.006	.004	.003	.002	
8.0	.037	.023	.014	.032	.020	.012	.022	.014	.008	.013	.008	.005	.004	.003	.002	
9.0	.036	.021	.012	.031	.019	.010	.021	.013	.007	.012	.008	.004	.004	.003	.001	
10.0	.034	.020	.010	.029	.017	.009	.020	.012	.006	.012	.007	.004	.004	.002	.001	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:彭金英
 Test Date:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm										
NAME: SLV1200X					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	9.3	10.1	9.5	10.3	10.5	8.4	9.2	8.6	9.4	9.6
3H	9.1	10.0	9.4	10.1	10.3	8.3	9.1	8.5	9.3	9.5
4H	9.1	9.9	9.4	10.1	10.3	8.3	9.0	8.5	9.2	9.5
6H	9.1	9.8	9.4	10.0	10.3	8.3	9.0	8.6	9.3	9.5
8H	9.1	9.8	9.4	10.0	10.3	8.3	9.0	8.6	9.3	9.5
12H	9.1	9.8	9.4	10.1	10.3	8.4	9.1	8.8	9.4	9.6
4H 2H	9.0	9.8	9.3	10.0	10.2	8.1	8.9	8.4	9.1	9.3
3H	8.9	9.6	9.2	9.9	10.1	8.1	8.7	8.4	9.0	9.3
4H	8.9	9.5	9.2	9.8	10.1	8.1	8.7	8.4	9.0	9.3
6H	8.9	9.5	9.3	9.8	10.1	8.2	8.7	8.6	9.1	9.4
8H	9.0	9.5	9.4	9.8	10.2	8.3	8.8	8.7	9.2	9.5
12H	9.1	9.5	9.5	9.9	10.3	8.5	9.0	8.9	9.4	9.8
8H 4H	8.8	9.3	9.2	9.7	10.0	8.0	8.5	8.4	8.9	9.2
6H	8.9	9.3	9.3	9.7	10.1	8.2	8.6	8.7	9.0	9.4
8H	9.0	9.4	9.5	9.8	10.2	8.4	8.8	8.9	9.2	9.6
12H	9.2	9.5	9.7	10.0	10.4	8.8	9.1	9.3	9.5	10.0
12H 4H	8.8	9.2	9.2	9.6	10.0	8.0	8.4	8.4	8.8	9.2
6H	8.9	9.3	9.3	9.7	10.1	8.2	8.6	8.7	9.0	9.4
8H	9.1	9.4	9.5	9.8	10.3	8.5	8.8	9.0	9.2	9.7
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / - 5.3					+ 2.5 / - 4.1				
1.5H	+ 5.3 / - 5.5					+ 4.6 / - 4.2				
2.0H	+ 5.2 / - 2.1					+ 3.6 / - 1.2				

CIE Pub.117, 4000 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 4.8$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

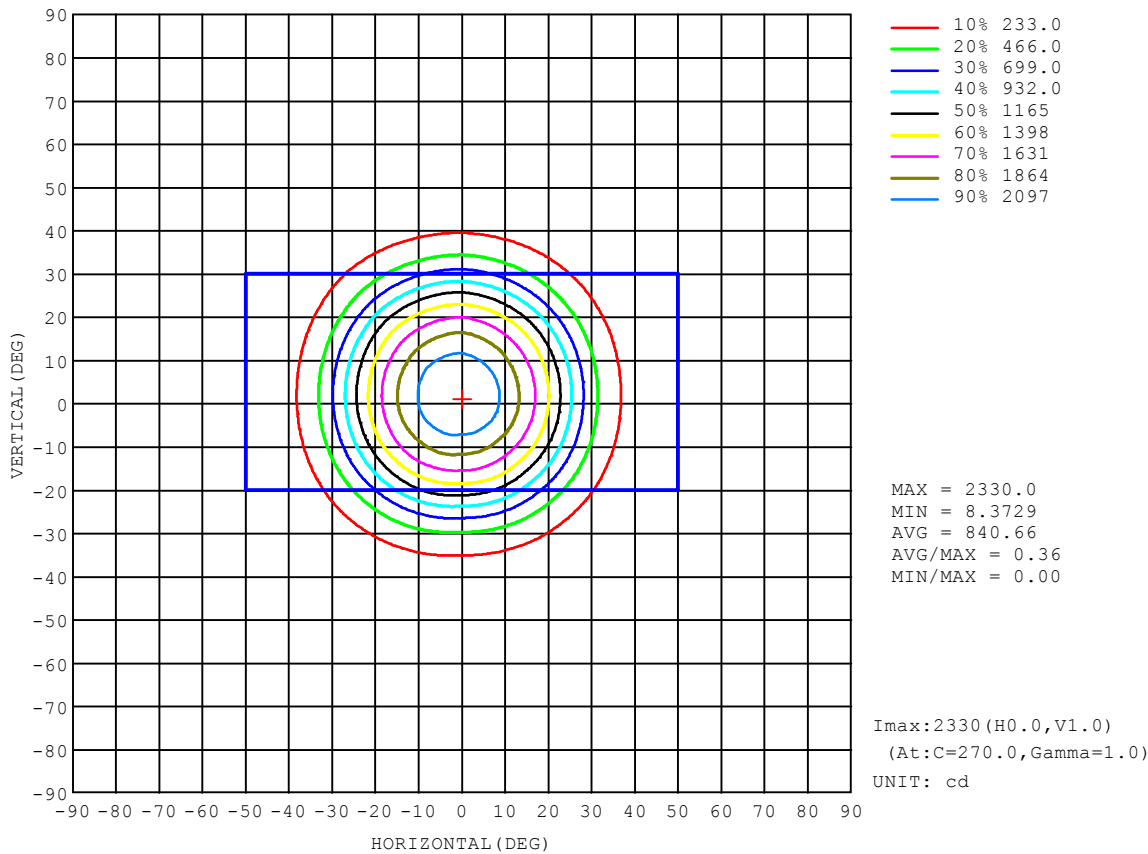
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	32	30	29	32	30	29	32	30	29	27
0.80	35	33	32	35	33	32	34	33	31	30
1.00	37	35	33	36	34	33	36	34	33	32
1.25	38	36	35	38	36	35	37	36	35	33
1.50	39	37	36	39	37	36	38	36	36	34
2.00	40	38	37	39	38	37	38	37	36	35
2.50	41	39	38	40	39	38	39	38	37	35
3.00	41	40	39	40	39	38	39	38	38	35
4.00	42	41	40	41	40	39	40	39	39	36
5.00	42	41	41	41	41	40	40	40	39	36
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: 2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

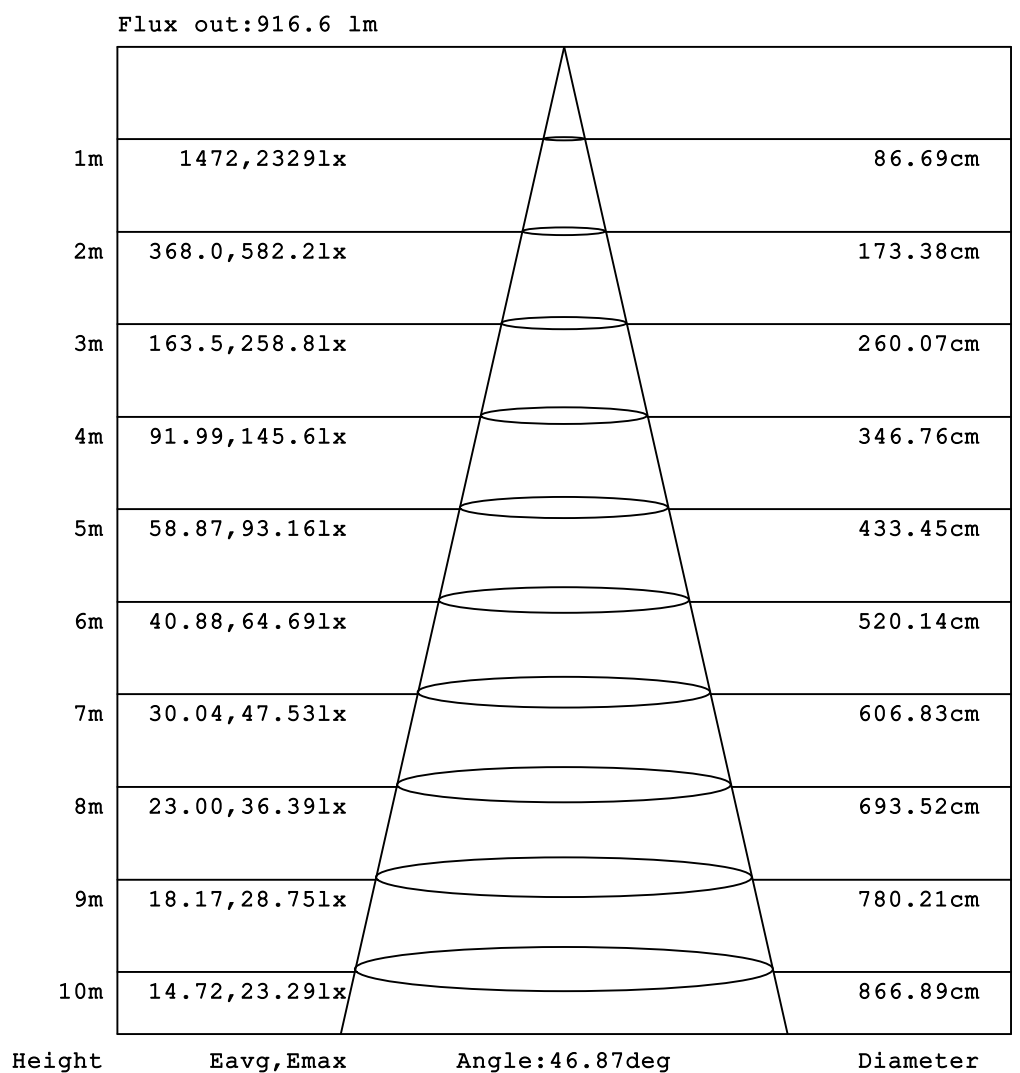


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:彭金英
Test Date:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:



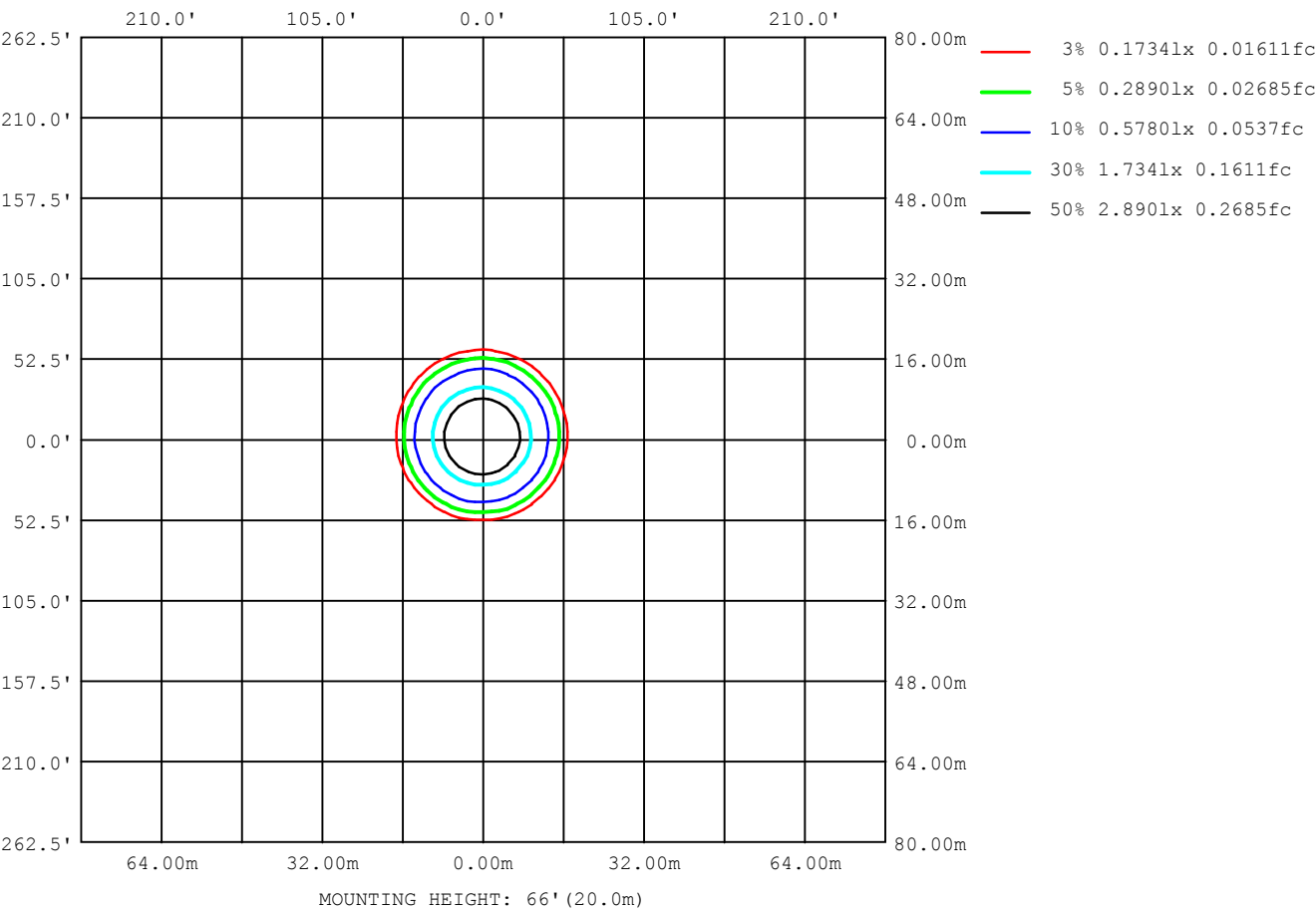
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 彭金英
 Test Date: 2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	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:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

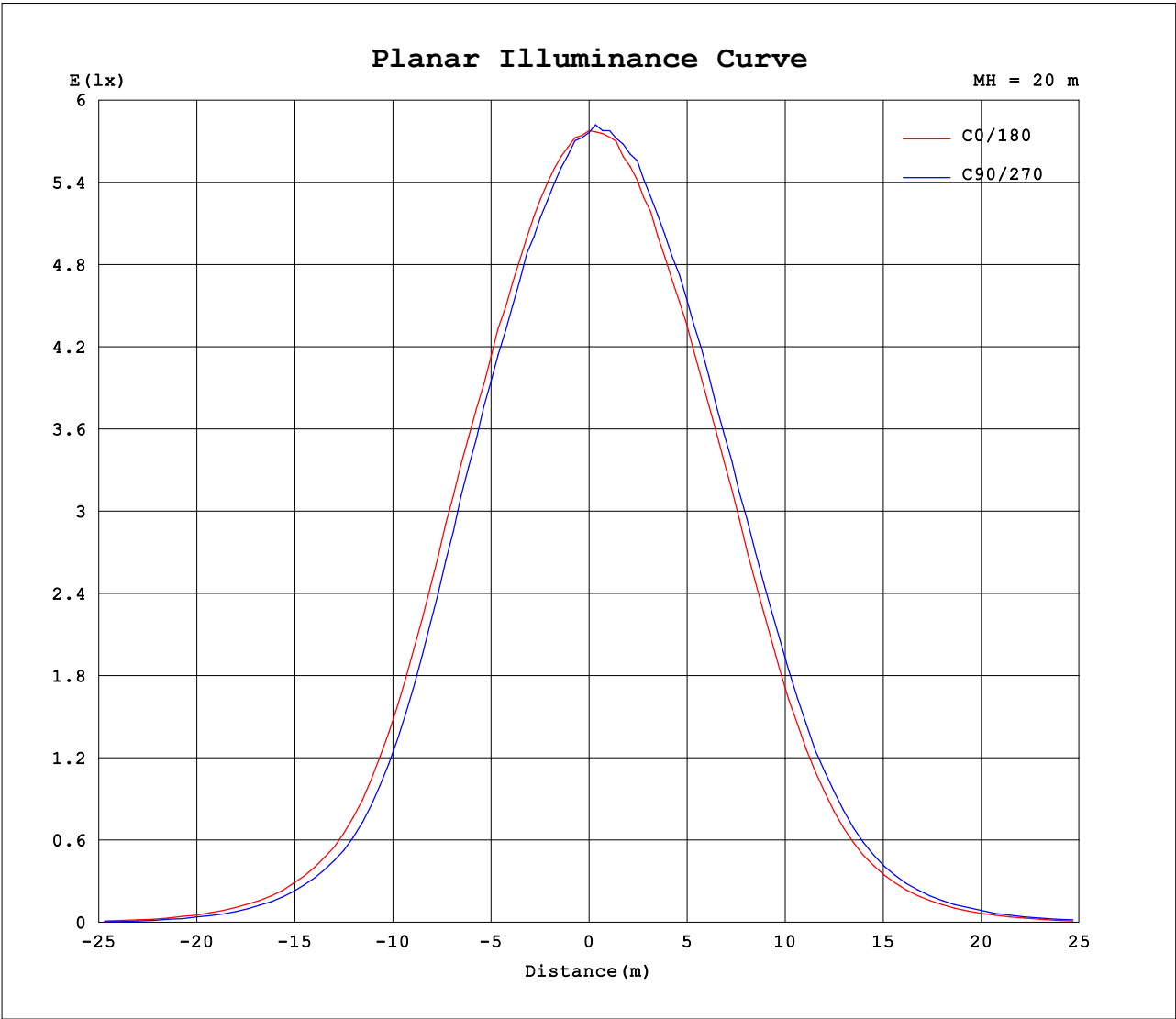
AvgL	cd/m2
L_0~180 (65) av	776
L_0~180 (75) av	1039
L_0~180 (85) av	2408
L_90~270 (65) av	777
L_90~270 (75) av	973
L_90~270 (85) av	2331
L_45 (65) av	701
L_45 (75) av	920
L_45 (85) av	2396

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:2026-01-08

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:2026-01-08

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:0.1787A P:35.757W PF:0.9090 Freq:49.99Hz Lamp Flux:4000x1 lm		
NAME: SLV1200X	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: SAT	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: 彭金英
Test Date: 2026-01-08

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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:

```