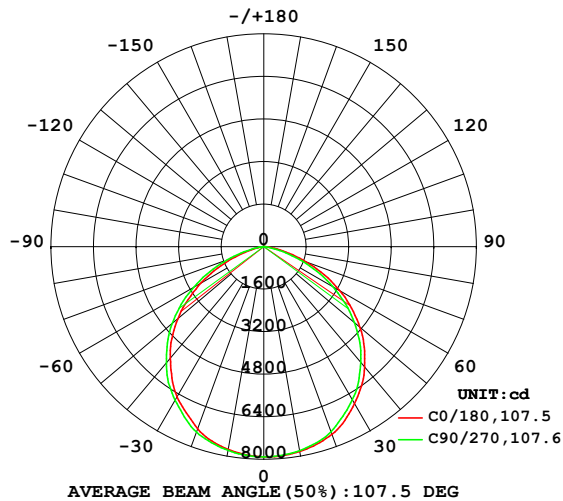


LUMINAIRE PHOTOMETRIC TEST REPORT

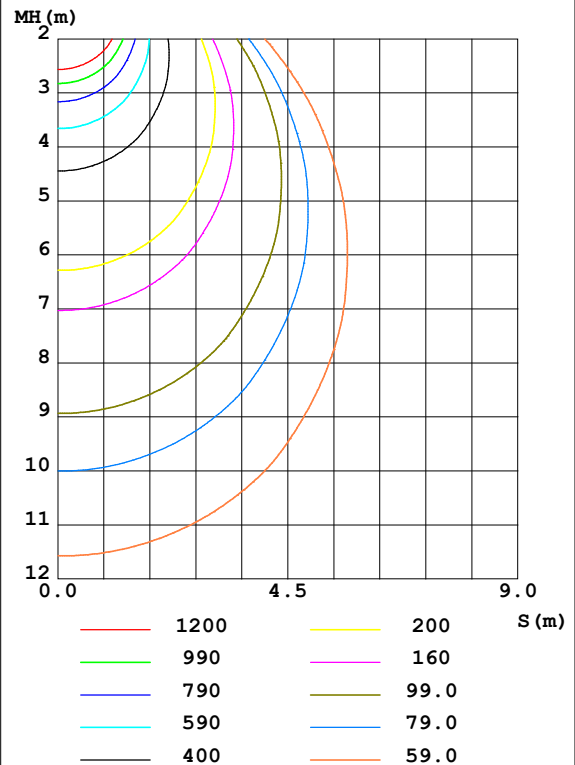
Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 172.86 lm/W			
MODEL	EPC120WS2D50D120V24T	Imax(cd)	7908	S/MH(C0/180)	1.23
NOMINAL POWER(W)	120	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	20460	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	20459.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	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: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HL
Test Date:05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

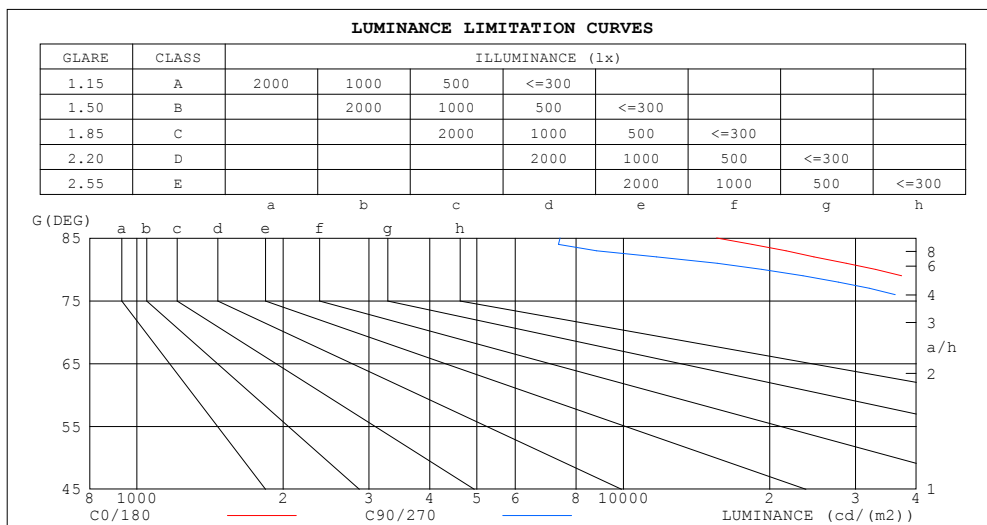
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	7821	7807	7786	7765	7740	7759	7779	7802	0- 10	748.6	748.6	3.66,3.66
20	7506	7467	7404	7348	7282	7361	7421	7460	10- 20	2155	2903	14.2,14.2
30	6823	6742	6661	6596	6525	6590	6668	6736	20- 30	3252	6155	30.1,30.1
40	5907	5799	5678	5588	5473	5574	5702	5808	30- 40	3888	10043	49.1,49.1
50	4726	4592	4447	4332	4216	4346	4504	4636	40- 50	3945	13987	68.4,68.4
60	3288	3155	2993	2858	2712	2857	3022	3164	50- 60	3361	17348	84.8,84.8
70	1725	1592	1424	1291	1163	1306	1471	1608	60- 70	2199	19547	95.5,95.5
80	404.5	305.6	235.9	160.0	121.7	209.4	278.3	363.0	70- 80	827.8	20375	99.6,99.6
90	13.73	7.878	8.261	8.695	10.14	9.804	9.590	9.707	80- 90	85.03	20460	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		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HL
Test Date:05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

LUMINANCE LIMITATION CURVES

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15555	7413
80	32981	19243
75	54142	40446
70	71391	58972
65	84274	73983
60	93107	84790
55	99609	92677
50	104100	97981
45	107068	102526

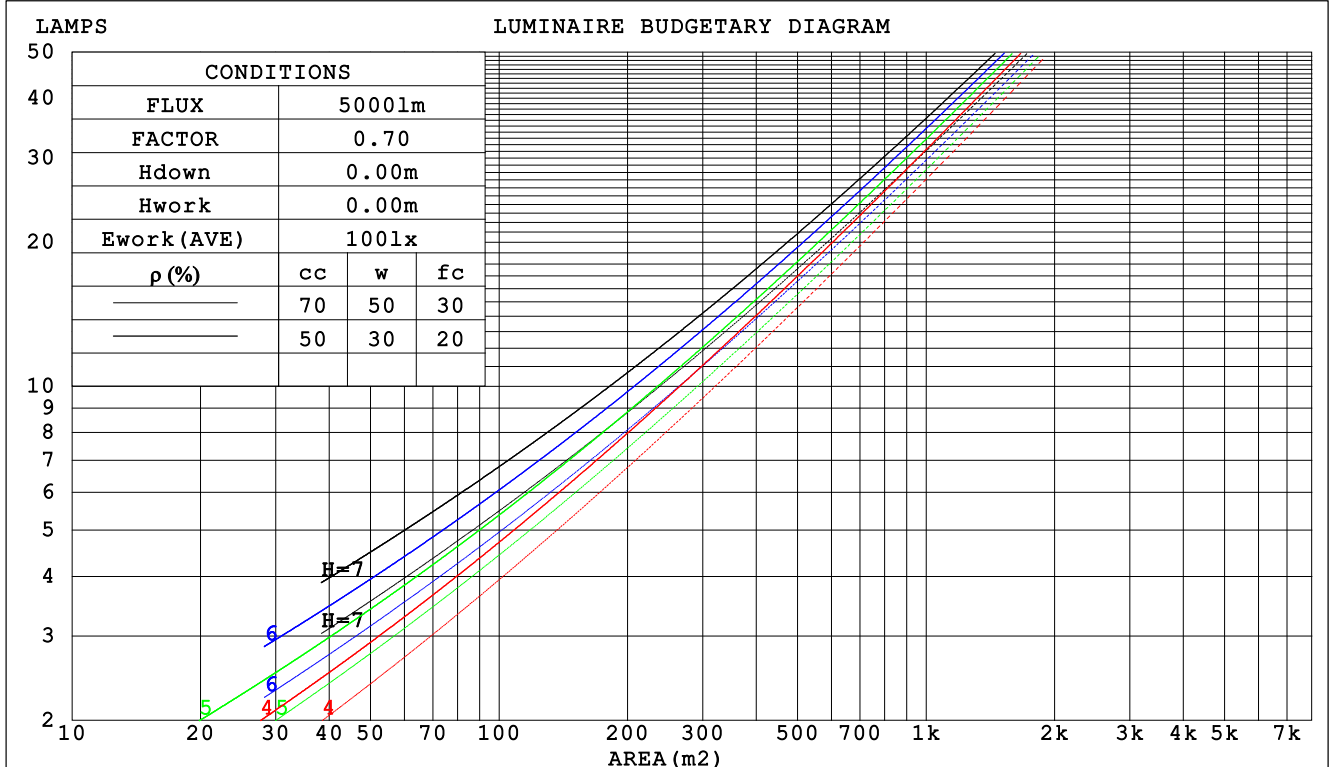
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HL
Test Date: 05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	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						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	1.06	1.02	.98	1.03	.90	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.81	.91	.85	.80	.88	.83	.79	.84	.80	.77	.81	.78	.75	.73
3.0	.82	.75	.68	.81	.74	.68	.78	.72	.67	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.63	.57	.67	.61	.56	.65	.60	.56	.54
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.59	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.39	.34	.32
9.0	.45	.37	.31	.44	.37	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29
10.0	.41	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: HL
 Test Date: 05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.220m [K=1.0000]
 Remarks: EPC120WS2D50D120V24T

WEC AND CCEC

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm					
NAME: EPC120WS2D50D120V24T			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: Fanmei			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						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.275	.156	.050	.268	.153	.049	.255	.146	.047	.243	.140	.045	.232	.134	.043		
2.0	.267	.146	.045	.261	.144	.044	.250	.139	.043	.239	.134	.042	.229	.130	.041		
3.0	.252	.134	.040	.247	.132	.040	.236	.128	.039	.227	.124	.038	.218	.121	.037		
4.0	.236	.122	.036	.231	.121	.036	.222	.118	.035	.213	.115	.035	.206	.112	.034		
5.0	.220	.112	.032	.216	.111	.032	.208	.108	.032	.200	.106	.031	.193	.103	.031		
6.0	.205	.103	.029	.202	.102	.029	.194	.100	.029	.188	.098	.029	.182	.096	.028		
7.0	.192	.095	.027	.189	.094	.027	.182	.092	.027	.176	.090	.026	.171	.089	.026		
8.0	.180	.088	.025	.177	.087	.025	.172	.086	.024	.166	.084	.024	.161	.083	.024		
9.0	.169	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.152	.077	.022		
10.0	.160	.077	.021	.157	.076	.021	.153	.075	.021	.148	.074	.021	.144	.073	.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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.098	.067	.095	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.087	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.010	.014	.008	.003	
10.0	.115	.060	.023	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HL
Test Date:05 September 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

UGR(Unified Glare Rating) Table

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm										
NAME: EPC120WS2D50D120V24T						TYPE:		WEIGHT:		
SPEC.:						DIM.:		SERIAL No.:		
MFR.: Fanmei						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	29.0	30.5	29.3	30.7	30.9	28.7	30.1	29.0	30.3	30.5
3H	30.1	31.5	30.4	31.7	31.9	29.7	31.0	30.0	31.2	31.5
4H	30.4	31.7	30.7	32.0	32.2	29.9	31.1	30.2	31.4	31.6
6H	30.5	31.7	30.9	32.0	32.3	29.9	31.1	30.2	31.3	31.6
8H	30.5	31.7	30.8	31.9	32.2	29.8	31.0	30.2	31.3	31.5
12H	30.5	31.6	30.8	31.9	32.2	29.8	30.9	30.1	31.2	31.5
4H 2H	29.5	30.7	29.8	31.0	31.2	29.2	30.5	29.5	30.7	31.0
3H	30.7	31.8	31.1	32.1	32.4	30.3	31.4	30.7	31.7	32.0
4H	31.1	32.1	31.5	32.4	32.7	30.6	31.6	31.0	31.9	32.2
6H	31.2	32.1	31.6	32.5	32.8	30.6	31.5	31.0	31.9	32.2
8H	31.2	32.1	31.7	32.4	32.8	30.6	31.4	31.0	31.8	32.2
12H	31.2	32.0	31.6	32.3	32.7	30.6	31.3	31.0	31.7	32.1
8H 4H	31.2	32.0	31.6	32.3	32.7	30.7	31.5	31.1	31.9	32.2
6H	31.3	32.0	31.8	32.4	32.8	30.8	31.4	31.2	31.8	32.3
8H	31.4	31.9	31.8	32.4	32.8	30.7	31.3	31.2	31.8	32.2
12H	31.3	31.8	31.8	32.3	32.8	30.7	31.2	31.2	31.7	32.1
12H 4H	31.1	31.9	31.5	32.2	32.7	30.6	31.4	31.1	31.8	32.2
6H	31.3	31.9	31.8	32.3	32.8	30.7	31.3	31.2	31.8	32.2
8H	31.3	31.8	31.8	32.3	32.8	30.7	31.2	31.2	31.7	32.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				

CIE Pub.117, 20460 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 10.5)
Area: 0.0706 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HL
Test Date:05 September 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

UTILIZATION FACTORS TABLE

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:

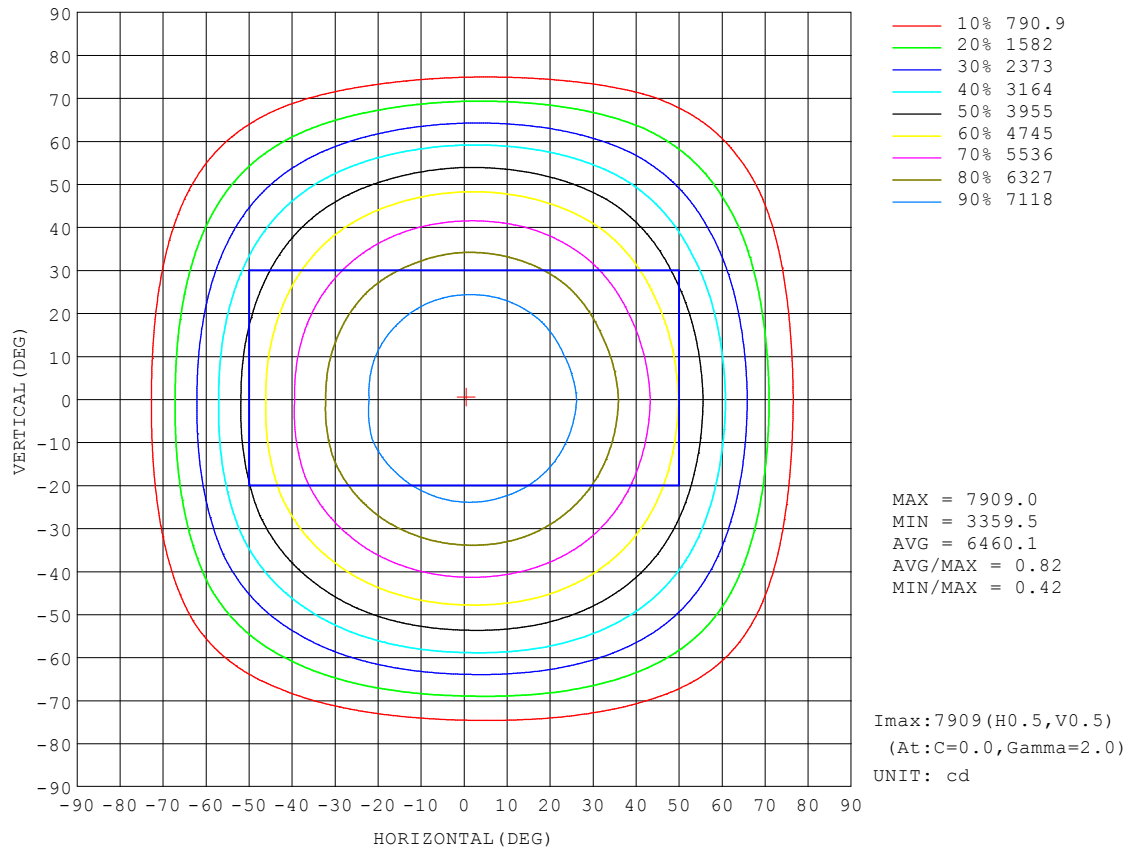
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	82	75	89	81	75	86	79	74	67
2.00	97	90	84	96	88	83	92	86	81	74
2.50	101	94	88	99	93	88	95	90	86	78
3.00	104	98	93	102	96	92	98	94	90	82
4.00	108	103	99	106	101	97	101	98	95	86
5.00	110	106	102	108	104	101	103	100	97	89
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: HL
Test Date: 05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity: 65.0%
Test Distance: 9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

ISOCANDELA DIAGRAM

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:

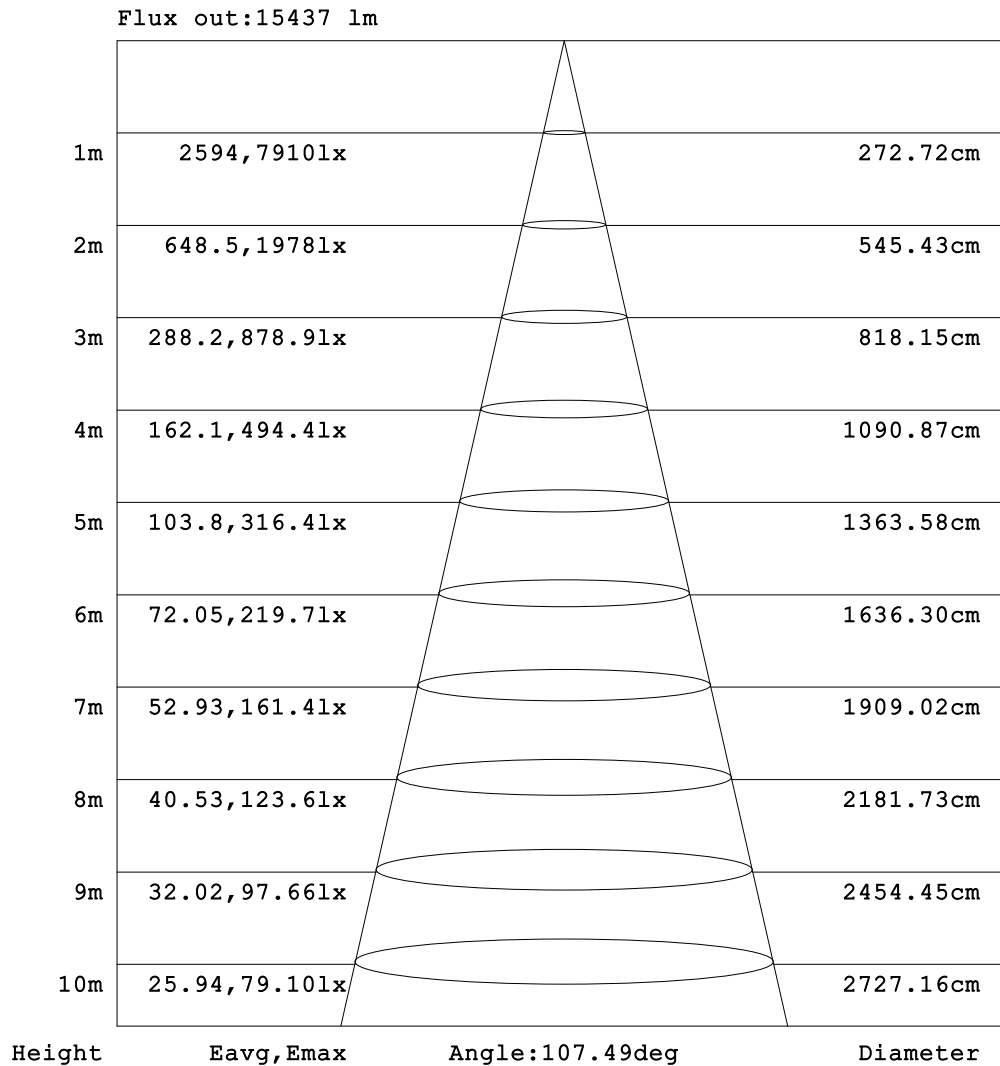


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HL
 Test Date:05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:9.220m [K=1.0000]
 Remarks: EPC120WS2D50D120V24T

AAI Figure

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:



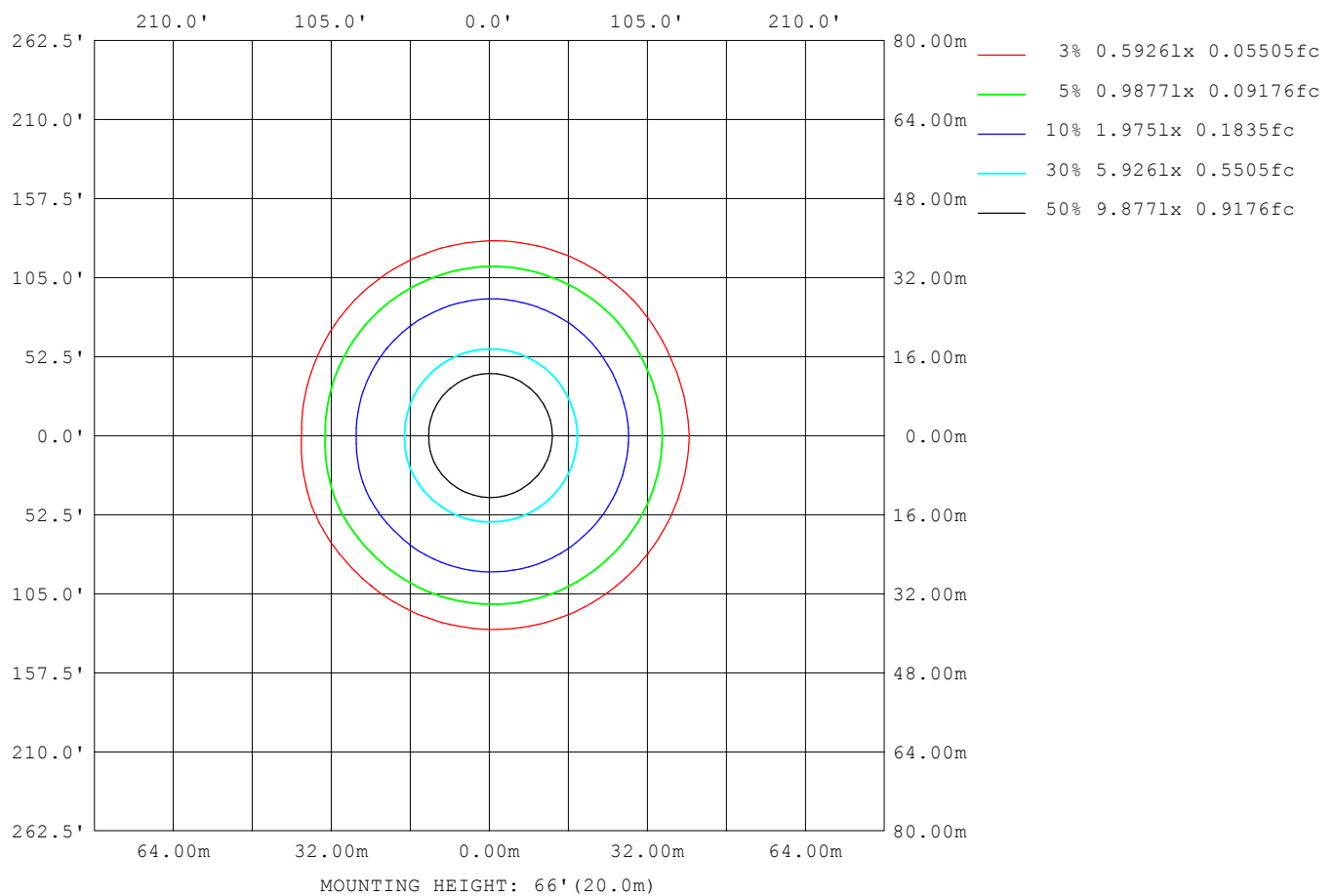
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:HL
 Test Date:05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:9.220m [K=1.0000]
 Remarks: EPC120WS2D50D120V24T

ISOLUX DIAGRAM

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HL
Test Date:05 September 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

LED Avg.L Report

Test:U:119.47V I:0.9963A P:118.36W PF:0.9944 Freq:50.00Hz Lamp Flux:20459.7x1 lm		
NAME: EPC120WS2D50D120V24T	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Fanmei	SUR.:	Shielding Angle:

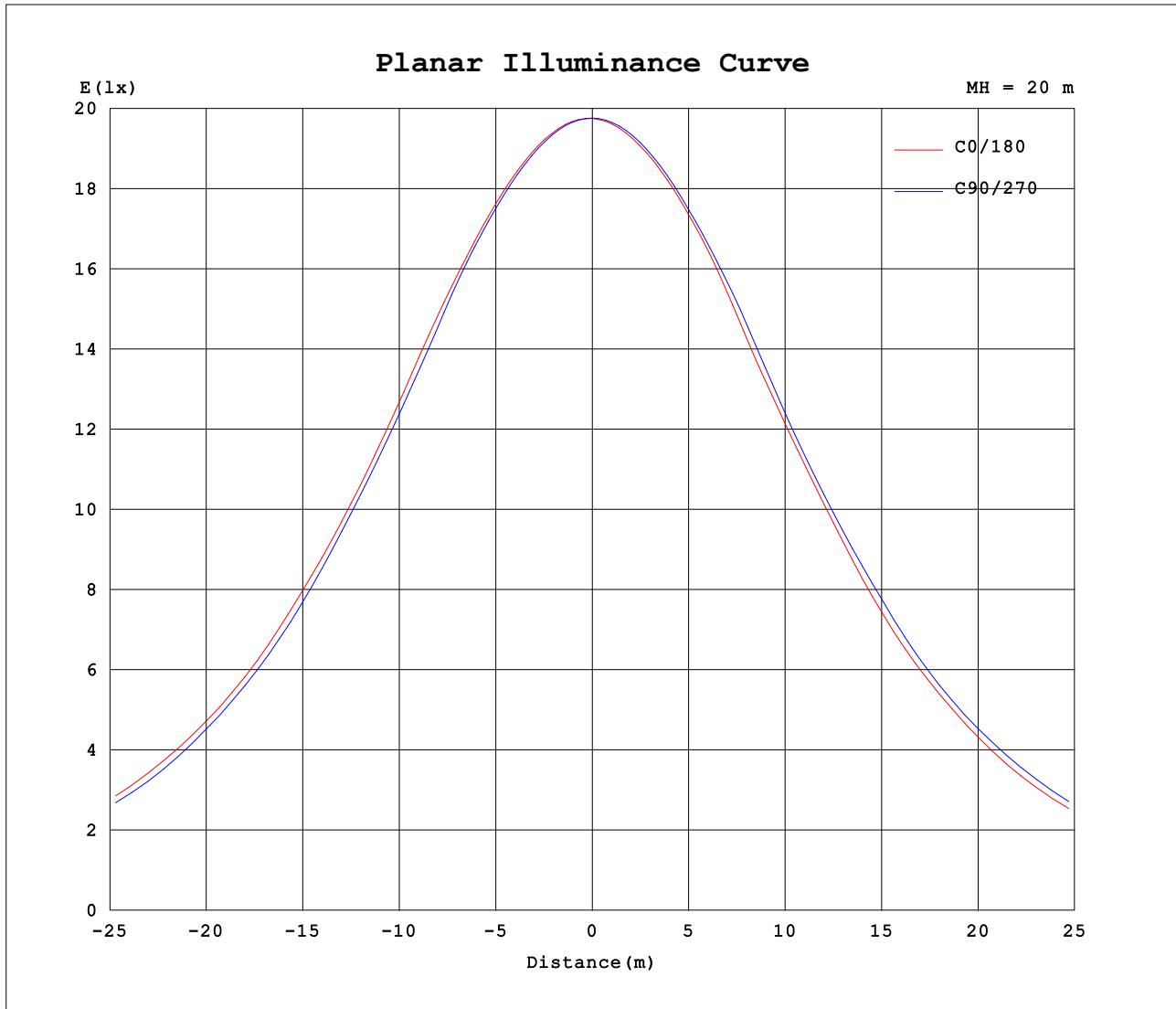
AvgL	cd/m2
L_0~180 (65) av	74340
L_0~180 (75) av	41253
L_0~180 (85) av	9643
L_90~270 (65) av	74548
L_90~270 (75) av	41363
L_90~270 (85) av	8239
L_45 (65) av	74577
L_45 (75) av	41236
L_45 (85) av	8461

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:HL
Test Date:05 September 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: HL
 Test Date: 05 September 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-3000H_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 9.220m [K=1.0000]
 Remarks: EPC120WS2D50D120V24T

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-3000H_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:9.220m [K=1.0000]
Remarks: EPC120WS2D50D120V24T

```