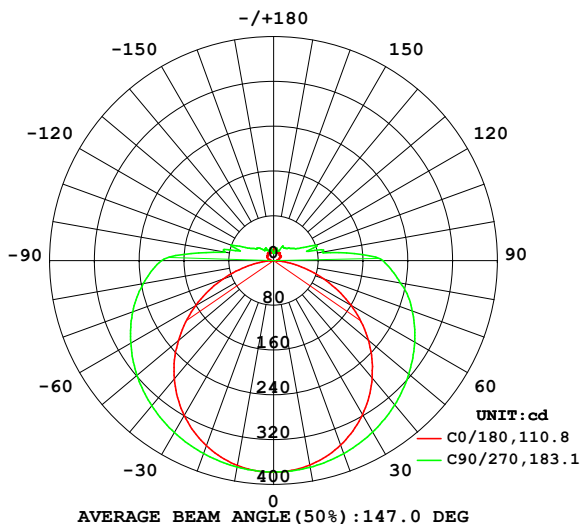


LUMINAIRE PHOTOMETRIC TEST REPORT

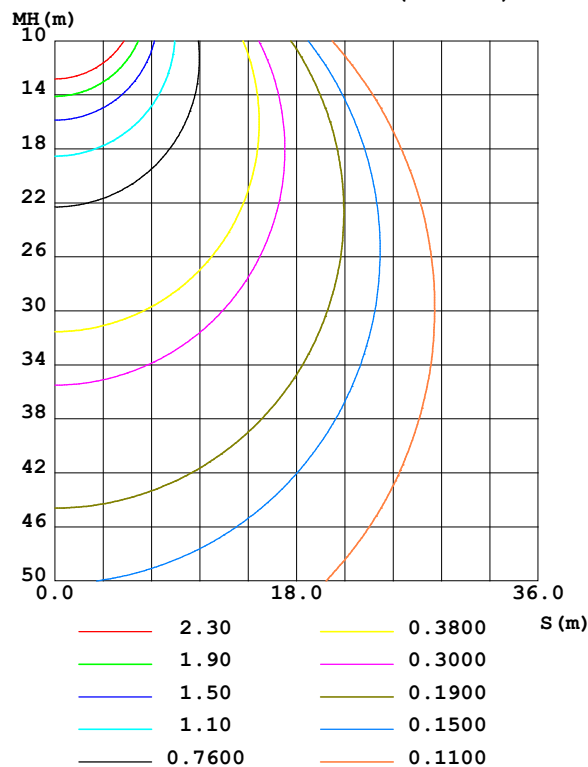
Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 69.90 lm/W
MODEL	3000K	I _{max} (cd)	378.1	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.42	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1677.6	η UP,DN(C0-180)	7.0,42.8	
NOMINAL FLUX(lm)	1677.6	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	7.0,43.2	
LAMPS INSIDE	1	η up(%)	14.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	η down(%)	86.0	CIBSE SHR MAX	1.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 7.380m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	370.9	375.0	371.6	374.5					0- 10	35.84	35.84	2.14,2.14
20	350.6	366.8	351.8	366.5					10- 20	103.7	139.6	8.32,8.32
30	317.8	353.7	319.5	354.7					20- 30	160.9	300.5	17.9,17.9
40	274.1	336.6	276.3	338.7					30- 40	201.9	502.4	29.9,29.9
50	220.9	315.4	221.7	318.9					40- 50	222.9	725.3	43.2,43.2
60	159.9	291.2	160.7	294.8					50- 60	222.4	947.7	56.5,56.5
70	94.64	263.8	95.72	268.0					60- 70	202.0	1150	68.5,68.5
80	35.17	229.5	35.40	236.3					70- 80	166.2	1316	78.4,78.4
90	5.656	195.5	6.008	200.2					80- 90	126.4	1442	86,86
100	7.291	88.42	7.590	88.11					90-100	82.95	1525	90.9,90.9
110	10.33	80.90	10.68	81.99					100-110	46.24	1571	93.7,93.7
120	13.95	43.51	14.23	44.47					110-120	35.03	1607	95.8,95.8
130	15.25	34.68	14.83	35.28					120-130	23.95	1630	97.2,97.2
140	16.87	29.92	17.01	24.98					130-140	17.86	1648	98.3,98.3
150	16.69	21.60	16.99	22.64					140-150	14.04	1662	99.1,99.1
160	15.30	19.29	15.79	19.50					150-160	8.428	1671	99.6,99.6
170	16.49	19.32	16.25	21.31					160-170	5.170	1676	99.9,99.9
180	20.68	14.61	20.65	14.59					170-180	1.648	1678	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 612.55 lm

%lum = 36.5%

%lamp = 36.5%

Conical surface Flux(120deg): 947.68 lm

%lum = 56.5%

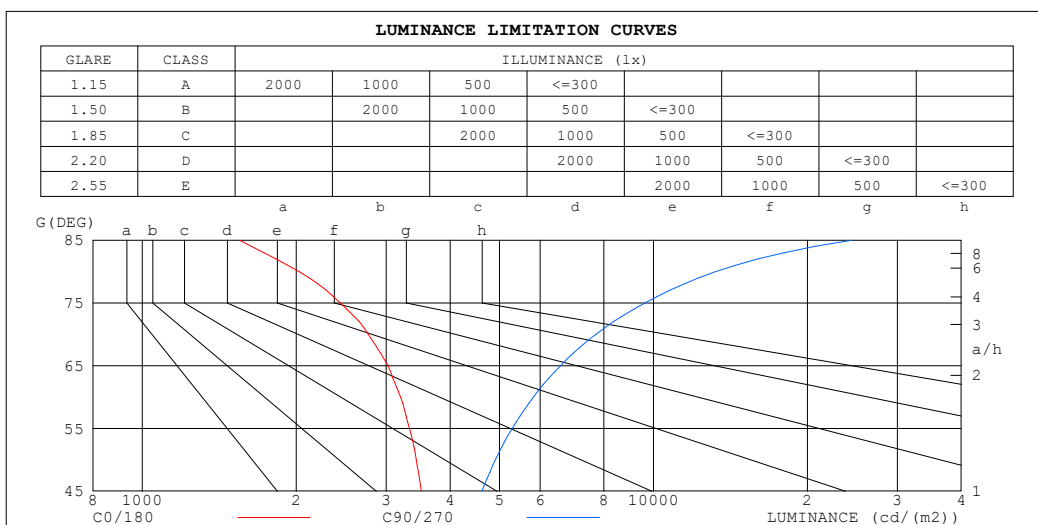
%lamp = 56.5%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1550	24399
80	2025	13217
75	2440	9617
70	2767	7713
65	3024	6578
60	3199	5823
55	3332	5294
50	3436	4906
45	3516	4615

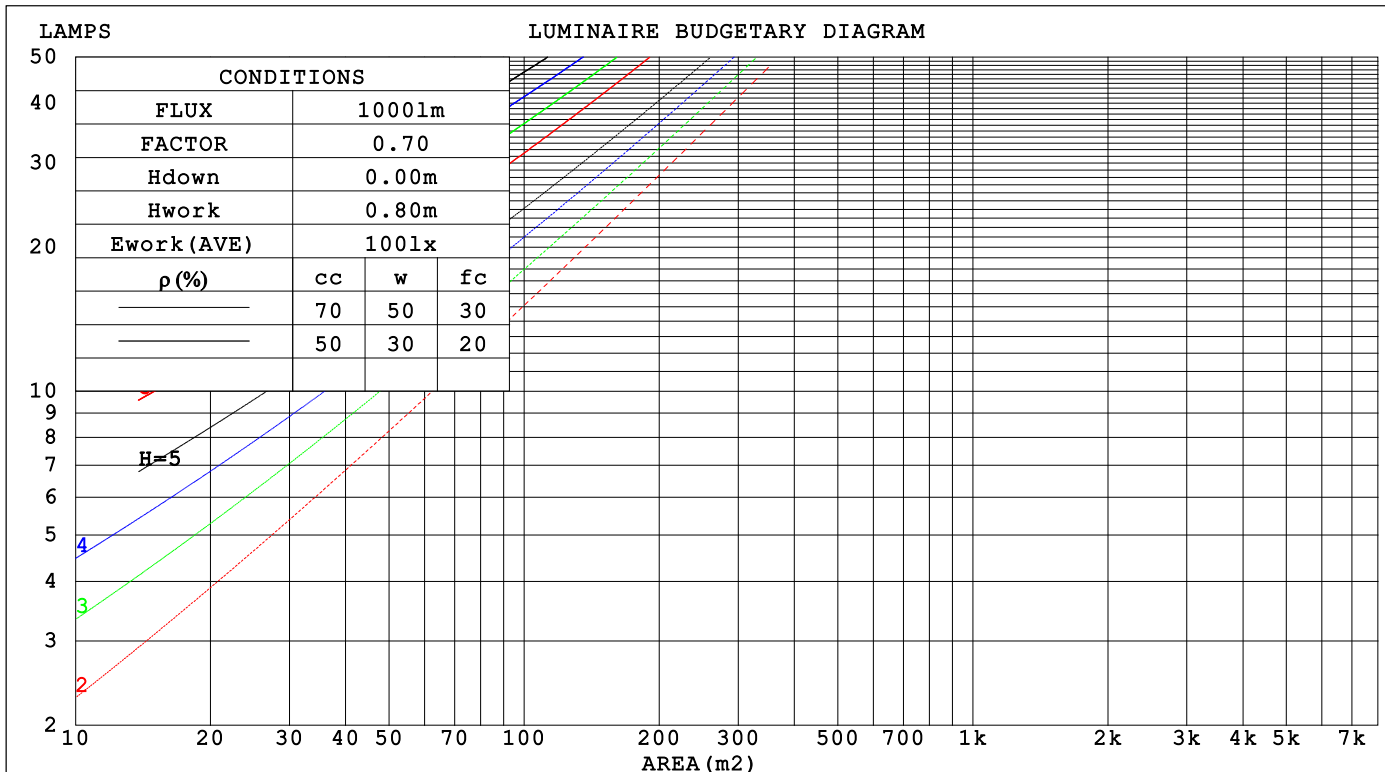
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 7.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	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	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86														
1.0	.96	.91	.86	.93	.88	.83	.86	.82	.78	.79	.76	.73	.74	.71	.69	.65														
2.0	.82	.74	.68	.79	.72	.66	.73	.67	.62	.68	.63	.59	.63	.59	.55	.52														
3.0	.71	.62	.55	.69	.60	.54	.64	.57	.51	.59	.53	.48	.55	.50	.46	.43														
4.0	.63	.53	.46	.60	.51	.45	.56	.48	.42	.52	.46	.40	.48	.43	.38	.36														
5.0	.56	.46	.39	.54	.45	.38	.50	.42	.36	.46	.40	.35	.43	.37	.33	.30														
6.0	.50	.40	.33	.48	.39	.33	.45	.37	.31	.42	.35	.30	.39	.33	.29	.26														
7.0	.45	.36	.29	.43	.35	.29	.40	.33	.27	.38	.31	.26	.35	.30	.25	.23														
8.0	.41	.32	.26	.39	.31	.25	.37	.30	.24	.35	.28	.23	.32	.27	.22	.20														
9.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.32	.25	.21	.30	.24	.20	.18														
10.0	.34	.26	.21	.33	.26	.20	.31	.24	.20	.29	.23	.19	.28	.22	.18	.16														



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	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	.389	.221	.070	.377	.215	.068	.356	.204	.065	.336	.194	.062	.317	.184	.059		
2.0	.337	.185	.057	.327	.180	.055	.307	.171	.053	.289	.162	.051	.273	.154	.049		
3.0	.299	.159	.048	.290	.155	.047	.273	.148	.045	.256	.140	.043	.241	.134	.041		
4.0	.269	.140	.041	.261	.137	.040	.245	.130	.039	.230	.124	.037	.217	.118	.036		
5.0	.245	.125	.036	.237	.122	.035	.223	.116	.034	.210	.111	.033	.197	.105	.032		
6.0	.224	.112	.032	.217	.110	.032	.204	.105	.030	.192	.100	.029	.181	.095	.028		
7.0	.207	.102	.029	.201	.100	.028	.189	.095	.027	.177	.091	.026	.167	.087	.025		
8.0	.192	.094	.026	.186	.092	.026	.175	.087	.025	.165	.084	.024	.155	.080	.023		
9.0	.179	.086	.024	.173	.084	.024	.163	.081	.023	.154	.077	.022	.145	.074	.021		
10.0	.167	.080	.022	.162	.078	.022	.153	.075	.021	.144	.072	.020	.136	.069	.020		

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	.297	.297	.297	.254	.254	.254	.173	.173	.173	.100	.100	.100	.032	.032	.032		
1.0	.294	.263	.236	.251	.226	.203	.172	.155	.140	.099	.090	.082	.032	.029	.026		
2.0	.287	.240	.201	.246	.207	.174	.168	.143	.121	.097	.083	.071	.031	.027	.023		
3.0	.279	.224	.179	.239	.193	.155	.164	.134	.109	.095	.078	.064	.030	.025	.021		
4.0	.271	.211	.165	.233	.182	.143	.160	.127	.101	.093	.074	.060	.030	.024	.020		
5.0	.264	.201	.155	.226	.174	.135	.156	.122	.095	.090	.071	.056	.029	.023	.019		
6.0	.256	.193	.148	.220	.167	.129	.152	.117	.091	.088	.069	.054	.028	.023	.018		
7.0	.249	.186	.143	.214	.162	.124	.148	.113	.088	.086	.067	.052	.028	.022	.017		
8.0	.242	.181	.139	.208	.157	.121	.144	.110	.086	.084	.065	.051	.027	.021	.017		
9.0	.236	.176	.136	.203	.153	.118	.141	.107	.084	.082	.063	.050	.027	.021	.017		
10.0	.230	.172	.133	.198	.149	.116	.138	.105	.083	.080	.062	.049	.026	.020	.016		

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:04 February 2026

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:7.380m [K=1.0000]

Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm											
NAME: WS24-033B-金色 24W 30K						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.: 1			
MFR.: EVERFINE						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		14.2	15.6	14.7	16.1	16.6	16.3	17.7	16.8	18.2	18.7
3H		15.7	17.0	16.2	17.5	18.0	19.1	20.4	19.6	20.9	21.4
4H		16.3	17.5	16.8	18.0	18.6	20.7	22.0	21.2	22.5	23.0
6H		16.6	17.8	17.2	18.4	18.9	22.4	23.6	23.0	24.1	24.7
8H		16.7	17.9	17.3	18.4	19.0	23.4	24.5	23.9	25.1	25.7
12H		16.8	17.9	17.3	18.4	19.0	24.5	25.6	25.0	26.1	26.8
4H 2H		15.3	16.6	15.8	17.1	17.6	16.8	18.1	17.3	18.6	19.2
3H		17.1	18.2	17.6	18.7	19.3	19.8	20.9	20.4	21.5	22.1
4H		17.9	18.9	18.4	19.4	20.1	21.6	22.6	22.1	23.2	23.8
6H		18.4	19.4	19.0	19.9	20.6	23.5	24.4	24.1	25.0	25.7
8H		18.6	19.5	19.3	20.1	20.8	24.6	25.5	25.2	26.1	26.7
12H		18.8	19.6	19.4	20.2	20.9	25.9	26.7	26.5	27.3	28.0
8H 4H		18.8	19.7	19.5	20.3	21.0	21.8	22.7	22.5	23.3	24.0
6H		19.8	20.5	20.4	21.2	21.9	24.0	24.8	24.7	25.4	26.1
8H		20.2	20.9	20.9	21.5	22.3	25.3	26.0	26.0	26.6	27.4
12H		20.5	21.1	21.2	21.8	22.5	26.8	27.4	27.5	28.1	28.9
12H 4H		19.2	20.0	19.8	20.6	21.3	21.9	22.6	22.5	23.3	24.0
6H		20.3	21.0	21.0	21.6	22.4	24.1	24.8	24.8	25.4	26.2
8H		20.9	21.5	21.6	22.1	22.9	25.5	26.1	26.2	26.7	27.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H		+ 0.3 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117, 1678 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.8)
Area: 0.1 m2

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:04 February 2026

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:7.380m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

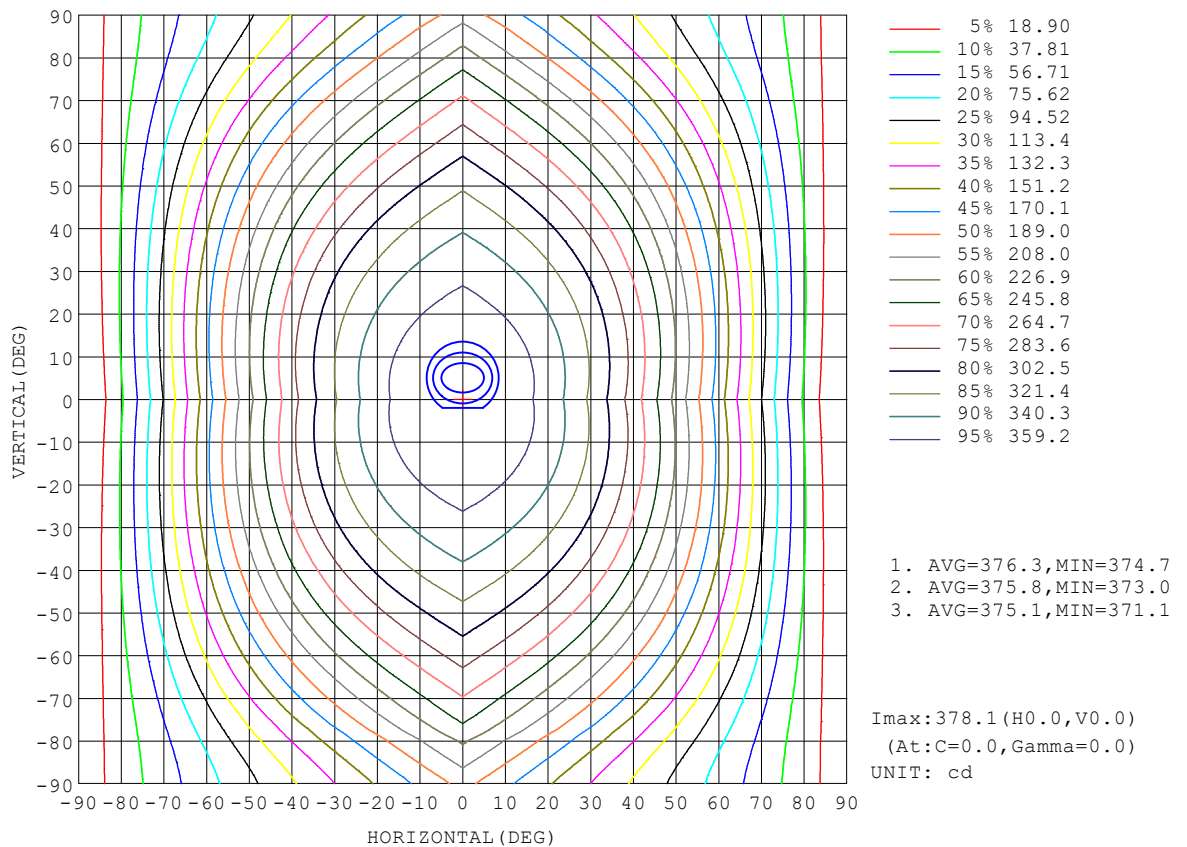
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	36	29	48	36	29	46	35	28	22
0.80	58	45	37	56	44	37	54	43	36	28
1.00	66	53	45	64	52	44	61	53	43	34
1.25	73	60	52	71	59	51	67	57	50	40
1.50	78	66	57	75	64	56	71	61	54	44
2.00	85	74	66	82	72	65	77	69	62	51
2.50	90	79	72	86	77	70	81	73	67	55
3.00	93	84	77	90	82	75	84	77	71	59
4.00	98	90	84	94	87	81	88	82	77	64
5.00	101	94	88	97	91	86	90	85	81	67
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3℃
 Operators: DAMIN
 Test Date: 04 February 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 7.380m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

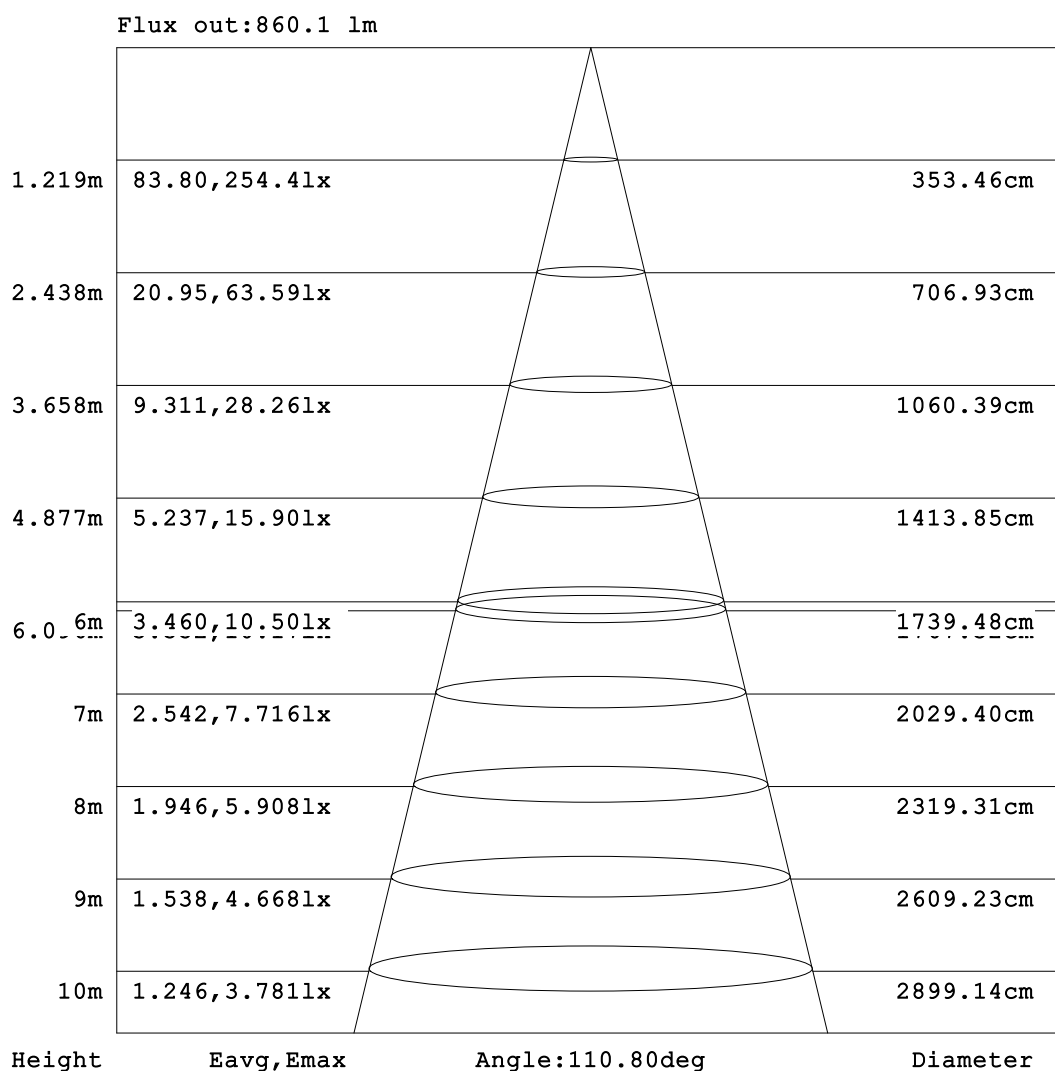


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



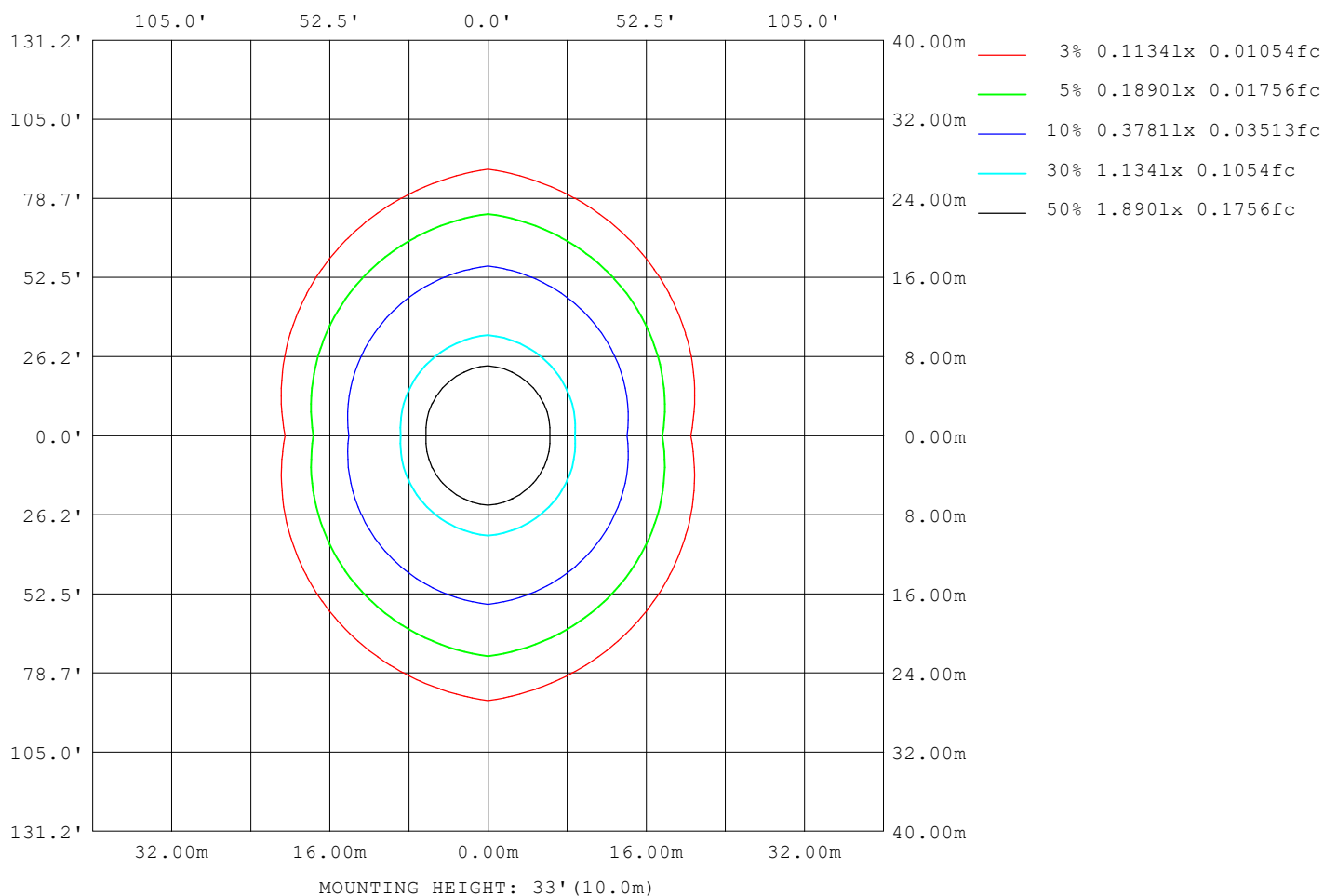
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 7.380m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

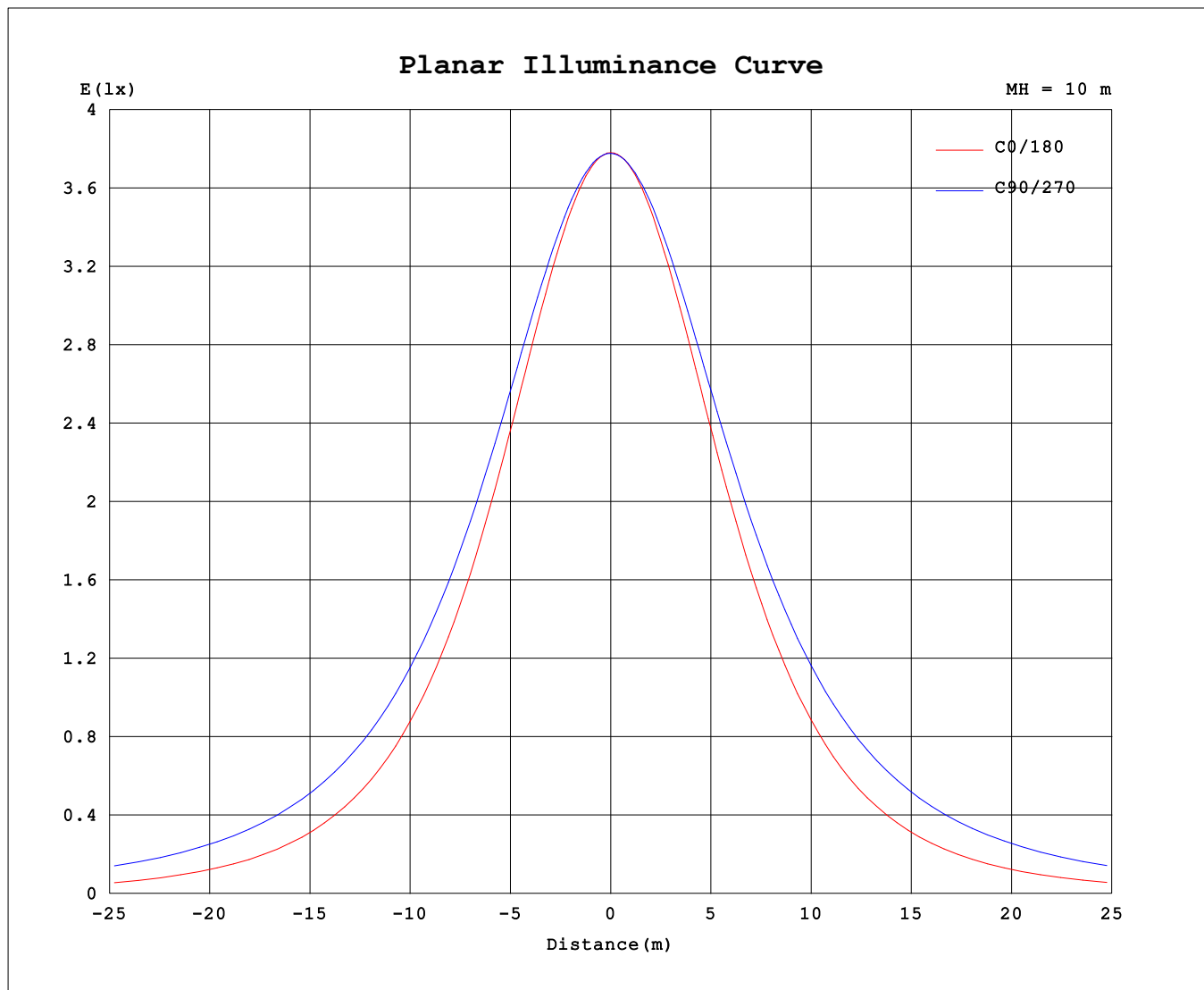
AvgL	cd/m2
L_0~180 (65) av	3031
L_0~180 (75) av	2457
L_0~180 (85) av	1567
L_90~270 (65) av	6623
L_90~270 (75) av	9693
L_90~270 (85) av	24773
L_45 (65) av	5276
L_45 (75) av	6981
L_45 (85) av	16072

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:7.380m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 04 February 2026

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 7.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.2132A P:24.001W PF:0.9380 Freq:59.98Hz Lamp Flux:1677.6x1 lm		
NAME: WS24-033B-金色 24W 30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	378	378	378	378														
5	376	377	377	377														
10	371	375	372	374														
15	362	371	363	371														
20	351	367	352	367														
25	336	361	337	361														
30	318	354	320	355														
35	297	346	299	347														
40	274	337	276	339														
45	249	326	251	329														
50	221	315	222	319														
55	191	304	192	307														
60	160	291	161	295														
65	128	278	128	282														
70	94.6	264	95.7	268														
75	63.2	249	64.0	253														
80	35.2	230	35.4	236														
85	13.5	213	13.8	219														
90	5.66	196	6.01	200														
95	6.33	145	6.83	148														
100	7.29	88.4	7.59	88.1														
105	8.67	65.4	8.79	70.6														
110	10.3	80.9	10.7	82.0														
115	12.3	54.1	12.4	55.8														
120	14.0	43.5	14.2	44.5														
125	14.8	38.7	14.7	36.9														
130	15.2	34.7	14.8	35.3														
135	15.2	31.4	15.2	29.2														
140	16.9	29.9	17.0	25.0														
145	17.6	29.6	17.7	23.1														
150	16.7	21.6	17.0	22.6														
155	16.2	20.0	16.7	20.6														
160	15.3	19.3	15.8	19.5														
165	14.7	23.1	15.2	23.5														
170	16.5	19.3	16.3	21.3														
175	19.2	13.3	18.8	14.6														
180	20.7	14.6	20.7	14.6														

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:04 February 2026

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:7.380m [K=1.0000]

Remarks: