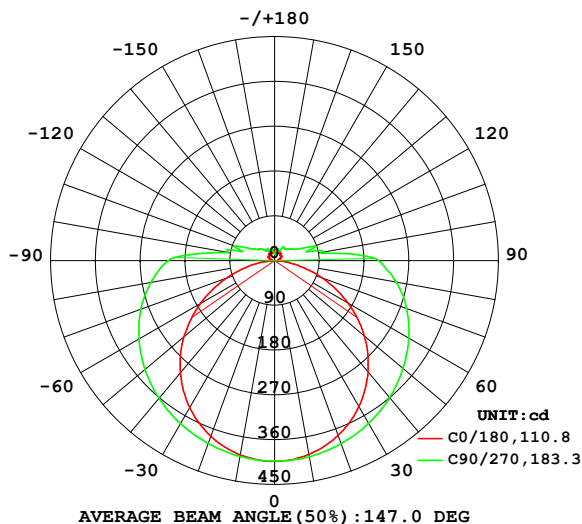


LUMINAIRE PHOTOMETRIC TEST REPORT

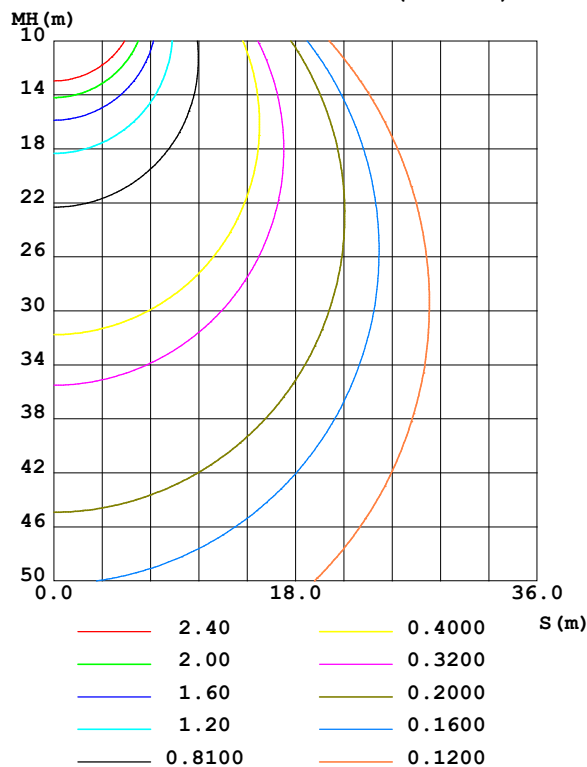
Test:U:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.66 lm/W			
MODEL	4000K	I _{max} (cd)	403.5	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)	1791.8	η UP,DN(C0-180)	7.0,42.8
NOMINAL FLUX(lm)	1791.79	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℃
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	395.5	400.2	396.6	399.8					0- 10	38.24	38.24	2.13,2.13
20	373.9	391.5	375.6	391.0					10- 20	110.7	148.9	8.31,8.31
30	339.1	377.8	341.1	378.4					20- 30	171.7	320.7	17.9,17.9
40	292.2	359.7	294.9	361.4					30- 40	215.5	536.1	29.9,29.9
50	235.5	337.2	238.5	340.3					40- 50	238.0	774.2	43.2,43.2
60	170.4	311.4	171.7	314.7					50- 60	237.5	1012	56.5,56.5
70	100.6	282.4	102.4	286.0					60- 70	215.8	1227	68.5,68.5
80	37.23	247.8	37.87	252.4					70- 80	177.7	1405	78.4,78.4
90	6.020	209.4	6.348	214.0					80- 90	135.3	1540	86,86
100	7.828	94.68	8.027	94.14					90-100	88.71	1629	90.9,90.9
110	11.08	86.56	11.35	87.95					100-110	49.44	1679	93.7,93.7
120	14.92	46.48	15.21	47.33					110-120	37.45	1716	95.8,95.8
130	16.26	37.02	15.78	37.62					120-130	25.53	1742	97.2,97.2
140	18.03	31.89	18.09	26.71					130-140	19.03	1761	98.3,98.3
150	17.84	23.03	18.06	23.96					140-150	14.96	1776	99.1,99.1
160	16.52	20.53	16.63	20.77					150-160	8.973	1785	99.6,99.6
170	17.50	20.58	17.33	22.65					160-170	5.505	1790	99.9,99.9
180	22.01	15.39	22.00	15.37					170-180	1.750	1792	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 653.74 lm

%lum = 36.5%

%lamp = 36.5%

Conical surface Flux(120deg): 1011.7 lm

%lum = 56.5%

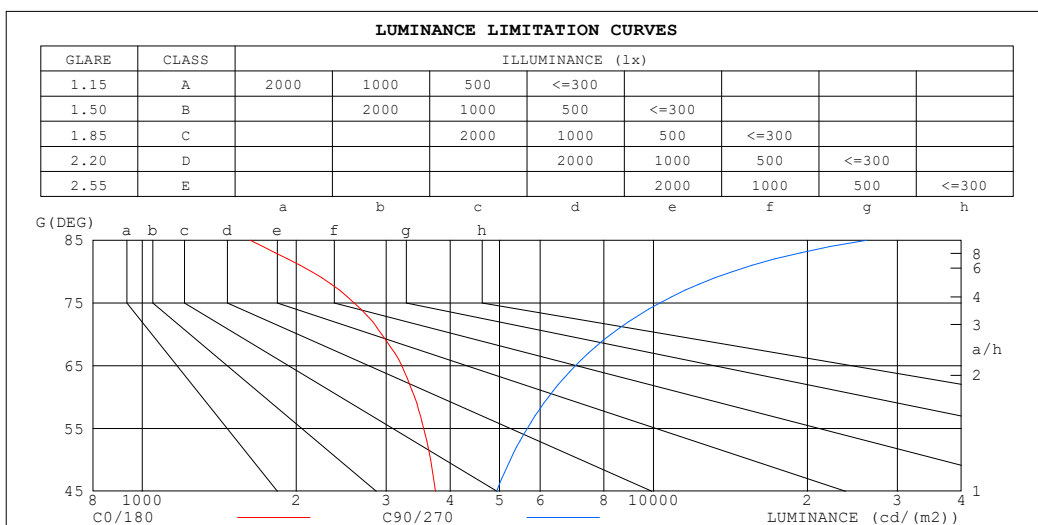
%lamp = 56.5%

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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1626	26135
80	2144	14272
75	2596	10297
70	2941	8256
65	3217	7038
60	3409	6228
55	3551	5662
50	3664	5246
45	3747	4932

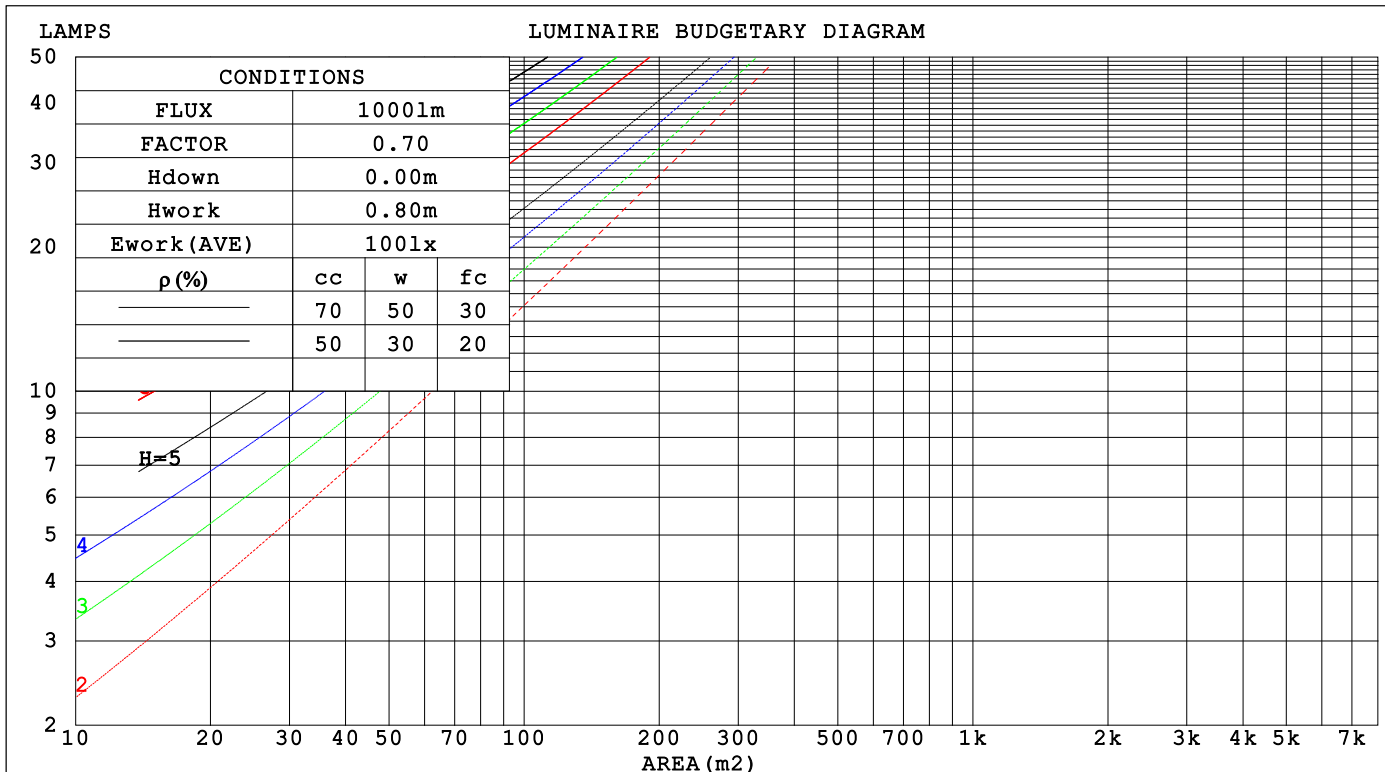
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
p _{fc}	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	.73	.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	.54	.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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	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	.318	.184	.059		
2.0	.337	.185	.057	.327	.180	.055	.307	.171	.053	.289	.162	.051	.273	.154	.049		
3.0	.300	.159	.048	.290	.155	.047	.273	.148	.045	.256	.140	.043	.241	.134	.041		
4.0	.270	.140	.041	.261	.137	.040	.245	.130	.039	.231	.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	.026		
8.0	.192	.094	.026	.186	.092	.026	.175	.088	.025	.165	.084	.024	.155	.080	.023		
9.0	.179	.086	.024	.173	.085	.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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm										
NAME: WS24-033B-金色 24W 40K					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	17.8	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	21.5
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	18.3	18.9	22.4	23.6	23.0	24.2	24.7
8H	16.7	17.9	17.3	18.4	19.0	23.4	24.6	24.0	25.1	25.7
12H	16.8	17.9	17.3	18.4	19.0	24.5	25.6	25.1	26.2	26.8
4H 2H	15.3	16.6	15.8	17.1	17.6	16.8	18.1	17.4	18.6	19.2
3H	17.1	18.2	17.6	18.7	19.3	19.8	21.0	20.4	21.5	22.1
4H	17.8	18.9	18.4	19.4	20.1	21.6	22.6	22.2	23.2	23.8
6H	18.4	19.4	19.0	19.9	20.6	23.5	24.5	24.1	25.0	25.7
8H	18.6	19.5	19.2	20.1	20.8	24.6	25.5	25.3	26.1	26.8
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	21.9	22.7	22.5	23.3	24.0
6H	19.8	20.5	20.4	21.2	21.9	24.1	24.8	24.7	25.4	26.1
8H	20.2	20.9	20.9	21.5	22.3	25.4	26.0	26.0	26.7	27.4
12H	20.5	21.1	21.2	21.8	22.5	26.9	27.5	27.6	28.1	28.9
12H 4H	19.2	20.0	19.8	20.6	21.3	21.9	22.7	22.5	23.3	24.0
6H	20.3	21.0	21.0	21.6	22.4	24.1	24.8	24.8	25.5	26.2
8H	20.9	21.5	21.6	22.2	22.9	25.5	26.1	26.2	26.8	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, 1792 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.0)
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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

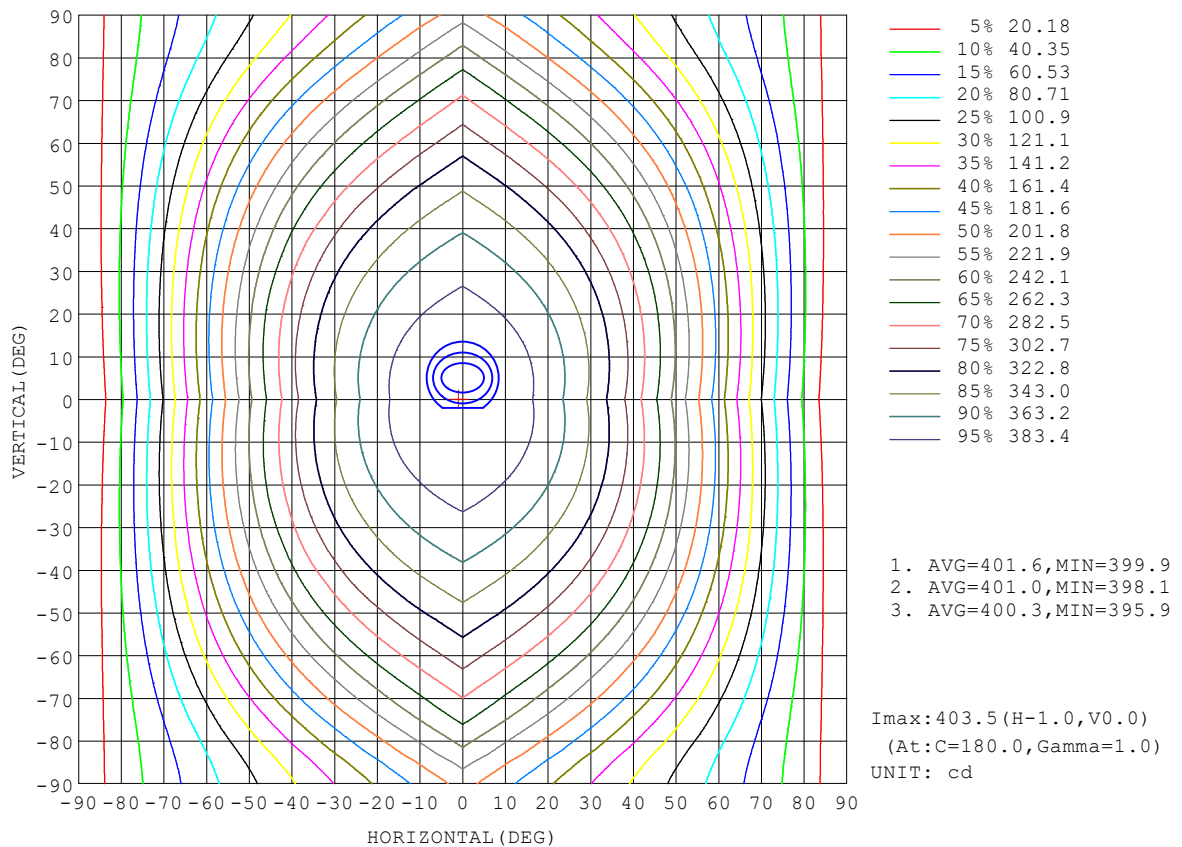
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	49	36	29	48	36	29	46	35	28	22
0.80	58	45	37	56	44	37	54	43	36	28
1.00	66	53	44	64	52	44	61	53	43	34
1.25	73	60	52	71	59	51	67	57	49	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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

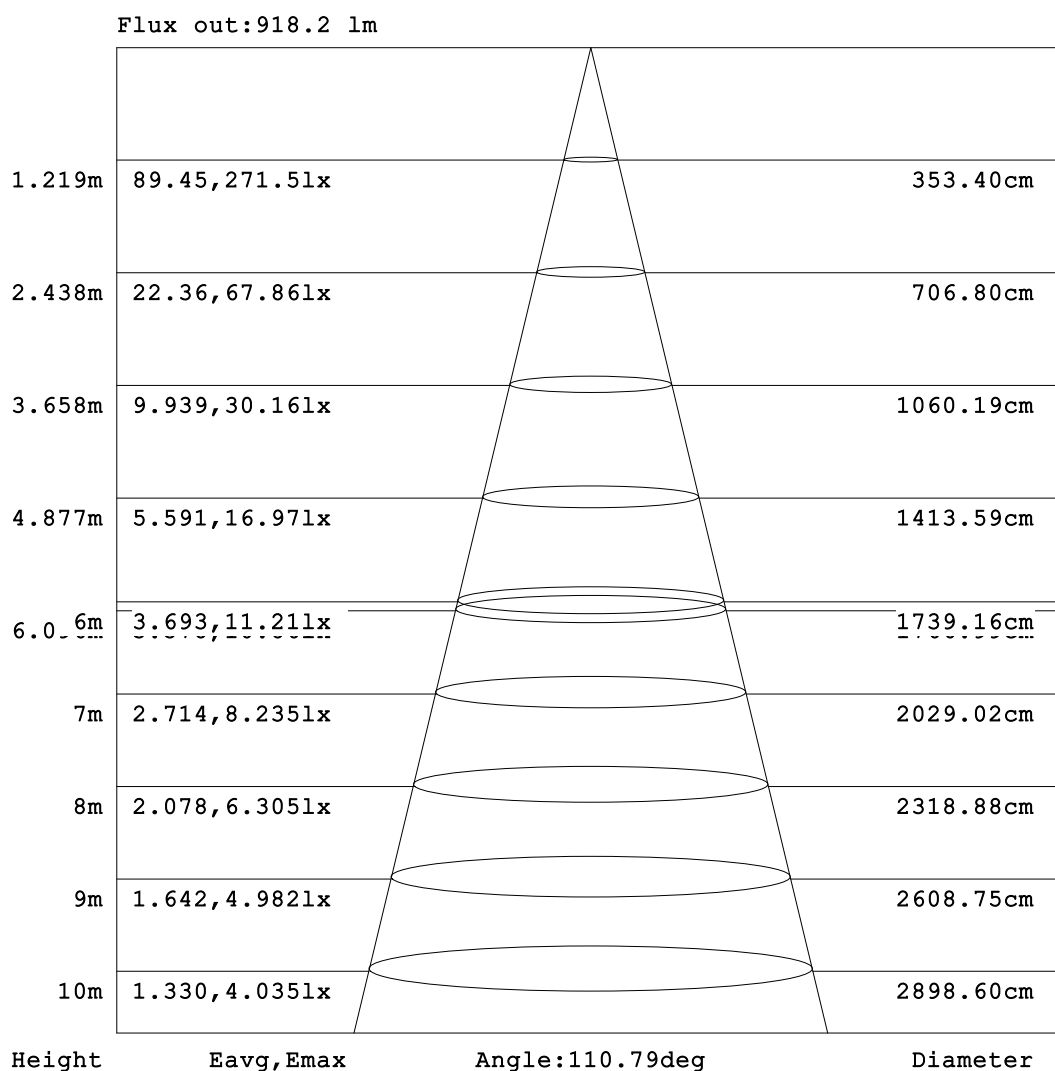


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:04 February 2026

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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:



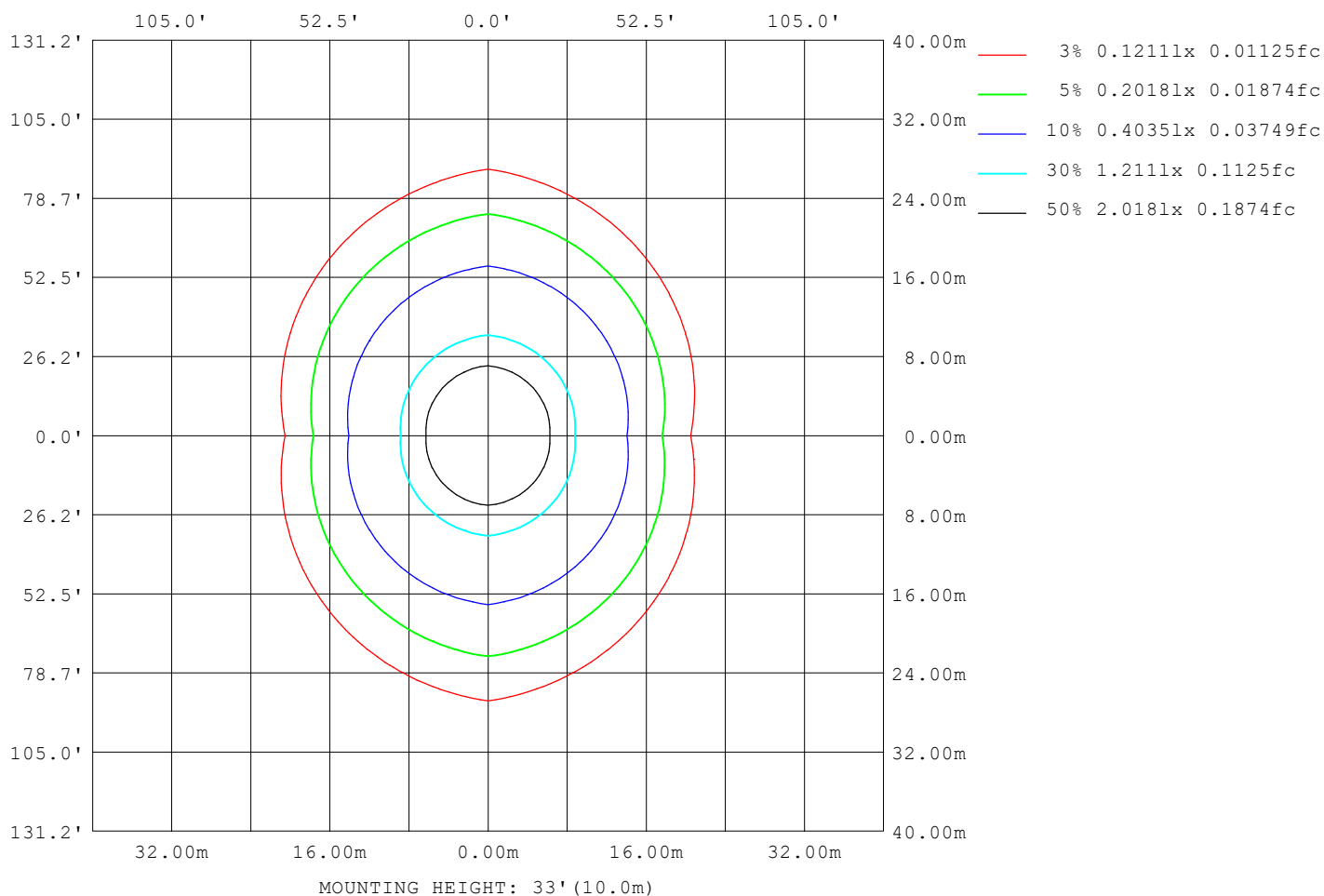
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1
MFR.: EVERFINE	SUR.:	Shielding Angle:

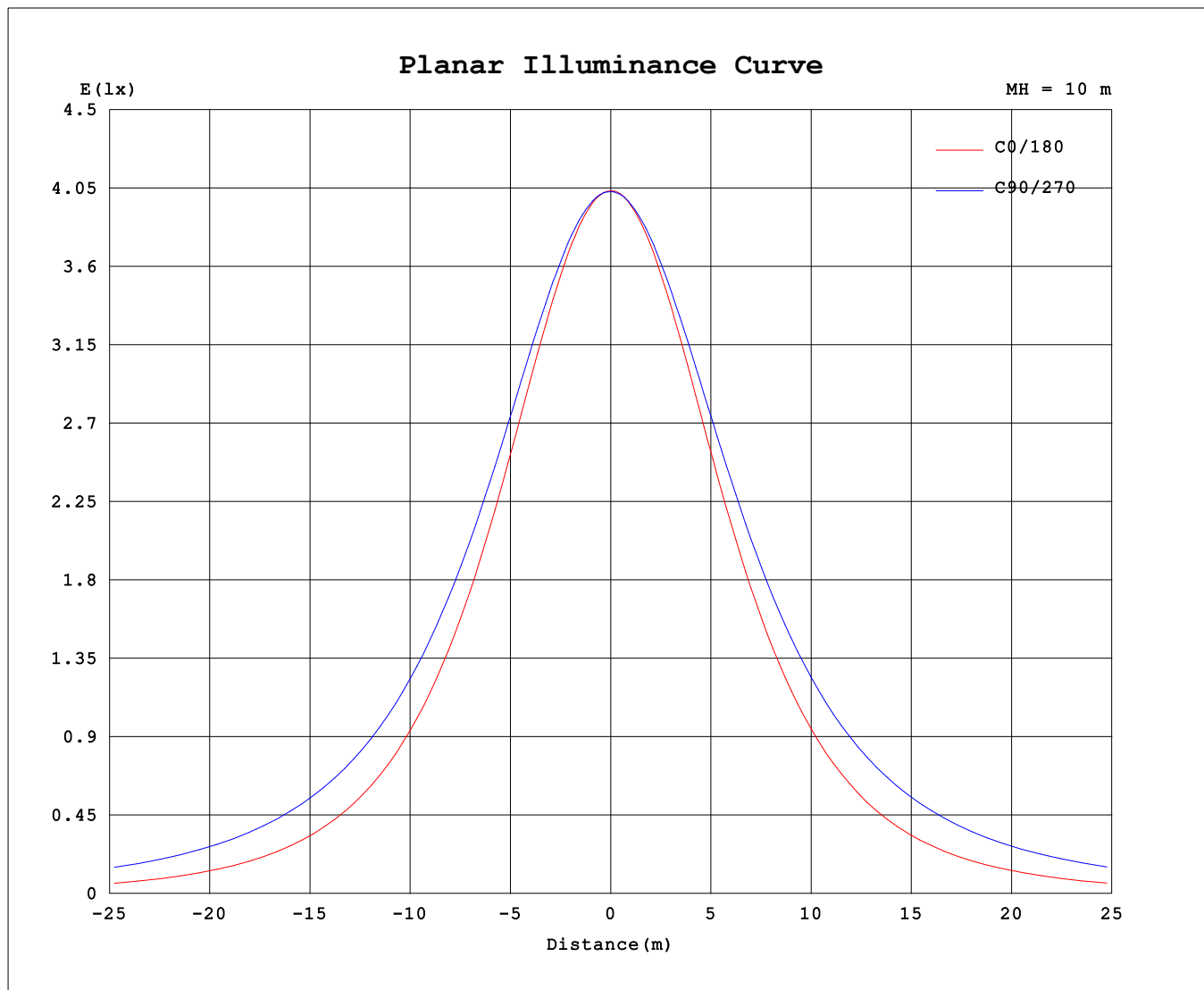
AvgL	cd/m2
L_0~180 (65) av	3232
L_0~180 (75) av	2622
L_0~180 (85) av	1663
L_90~270 (65) av	7079
L_90~270 (75) av	10363
L_90~270 (85) av	26501
L_45 (65) av	5637
L_45 (75) av	7461
L_45 (85) av	17189

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:120.00V I:0.2154A P:24.327W PF:0.9412 Freq:59.98Hz Lamp Flux:1791.79x1 lm		
NAME: WS24-033B-金色 24W 40K	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	404	403	404	403															
5	401	402	402	402															
10	396	400	397	400															
15	386	396	388	396															
20	374	392	376	391															
25	358	385	360	385															
30	339	378	341	378															
35	317	369	320	370															
40	292	360	295	361															
45	265	349	268	351															
50	236	337	238	340															
55	204	325	205	328															
60	170	311	172	315															
65	136	297	137	301															
70	101	282	102	286															
75	67.2	267	68.5	270															
80	37.2	248	37.9	252															
85	14.2	228	14.8	234															
90	6.02	209	6.35	214															
95	6.77	155	7.24	158															
100	7.83	94.7	8.03	94.1															
105	9.29	69.9	9.32	75.4															
110	11.1	86.6	11.4	88.0															
115	13.1	57.9	13.2	59.6															
120	14.9	46.5	15.2	47.3															
125	15.8	41.3	15.7	39.6															
130	16.3	37.0	15.8	37.6															
135	16.3	33.6	16.1	30.9															
140	18.0	31.9	18.1	26.7															
145	18.8	31.5	18.8	24.6															
150	17.8	23.0	18.1	24.0															
155	17.4	21.3	17.6	21.9															
160	16.5	20.5	16.6	20.8															
165	15.8	24.6	16.0	25.1															
170	17.5	20.6	17.3	22.7															
175	20.5	14.0	20.0	15.4															
180	22.0	15.4	22.0	15.4															

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: