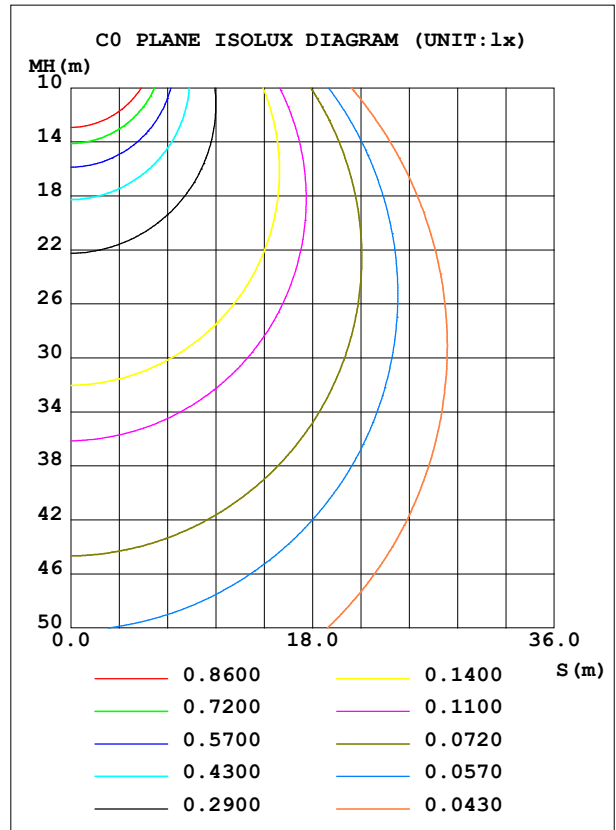
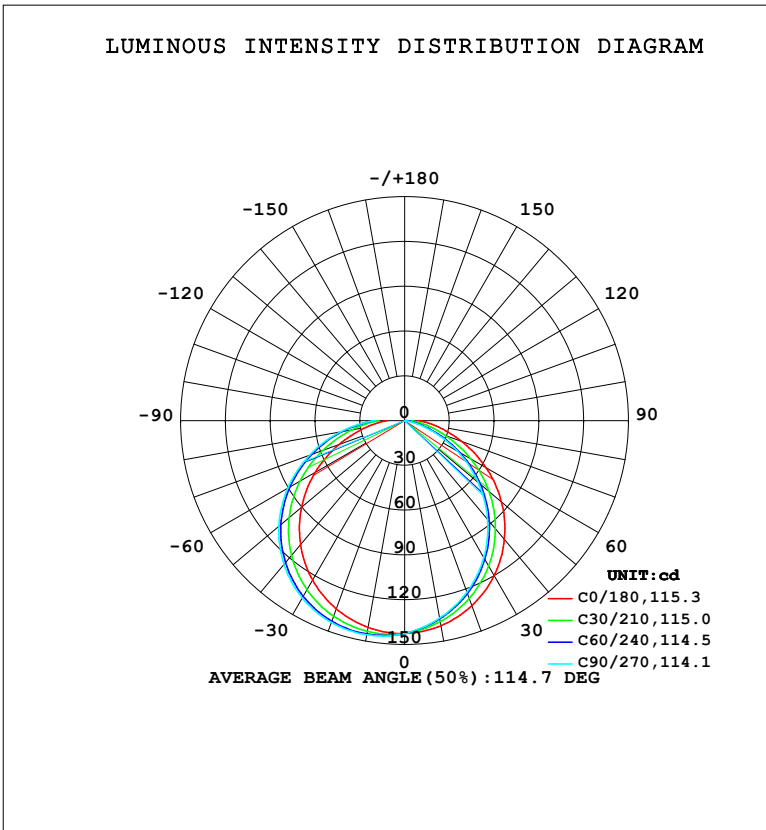


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.661x1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 23.47 lm/W
MODEL	W17	I _{max} (cd)	145.7	S/MH (C0/180)	1.29	
NOMINAL POWER (W)	18	LOR (%)	100.0	S/MH (C90/270)	1.42	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	432.66	η UP, DN (C0-180)	0.0, 40.9	
NOMINAL FLUX (lm)	432.661	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 59.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	219.5	η down (%)	100.0	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 9.401m [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	139.5	135.8	134.4	136.6	140.6	144.3	145.7	143.5	0- 10	13.49	13.49	3.12,3.12
20	131.9	124.8	122.2	126.2	134.1	141.4	143.9	139.7	10- 20	38.70	52.19	12.1,12.1
30	120.0	109.7	106.1	112.1	123.4	133.7	137.2	131.2	20- 30	58.94	111.1	25.7,25.7
40	104.0	91.19	86.56	94.18	108.5	121.4	125.8	118.1	30- 40	71.57	182.7	42.2,42.2
50	84.75	69.67	64.38	73.34	90.23	105.1	110.0	101.1	40- 50	74.93	257.6	59.5,59.5
60	63.02	46.54	40.66	50.53	69.10	85.17	90.45	80.63	50- 60	68.62	326.2	75.4,75.4
70	40.56	24.16	17.90	27.84	46.65	62.77	67.83	57.95	60- 70	53.91	380.2	87.9,87.9
80	21.54	8.800	2.771	10.78	26.24	39.76	43.81	35.09	70- 80	34.79	415.0	95.9,95.9
90	9.026	2.010	0.2833	2.553	11.70	19.15	19.69	15.87	80- 90	17.71	432.7	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		

Conical surface Flux(90deg): 220.36 lm

%lum = 50.9%

%lamp = 50.9%

Conical surface Flux(130deg): 355.46 lm

%lum = 82.2%

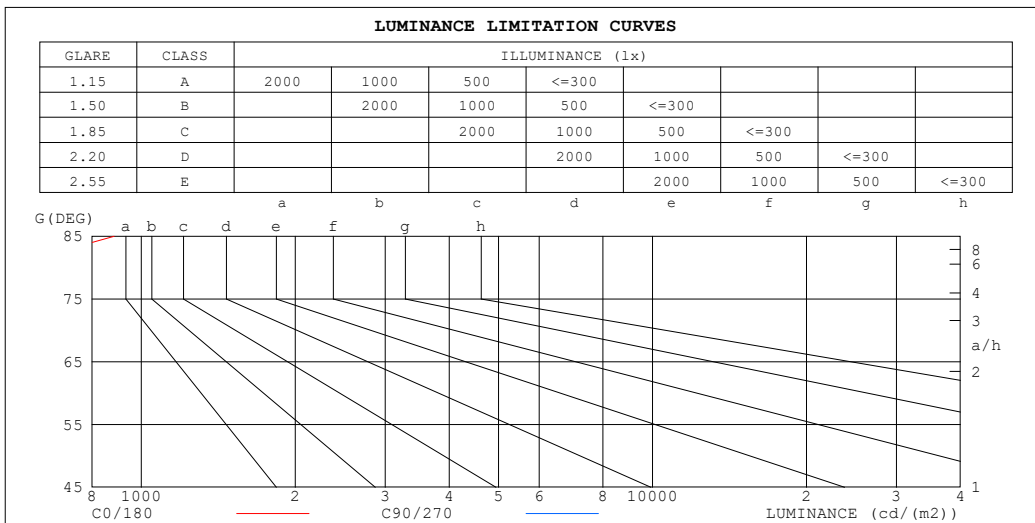
%lamp = 82.2%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.661x1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	884	17
80	663	85
75	627	183
70	634	278
65	654	362
60	674	431
55	691	486
50	705	531
45	717	568

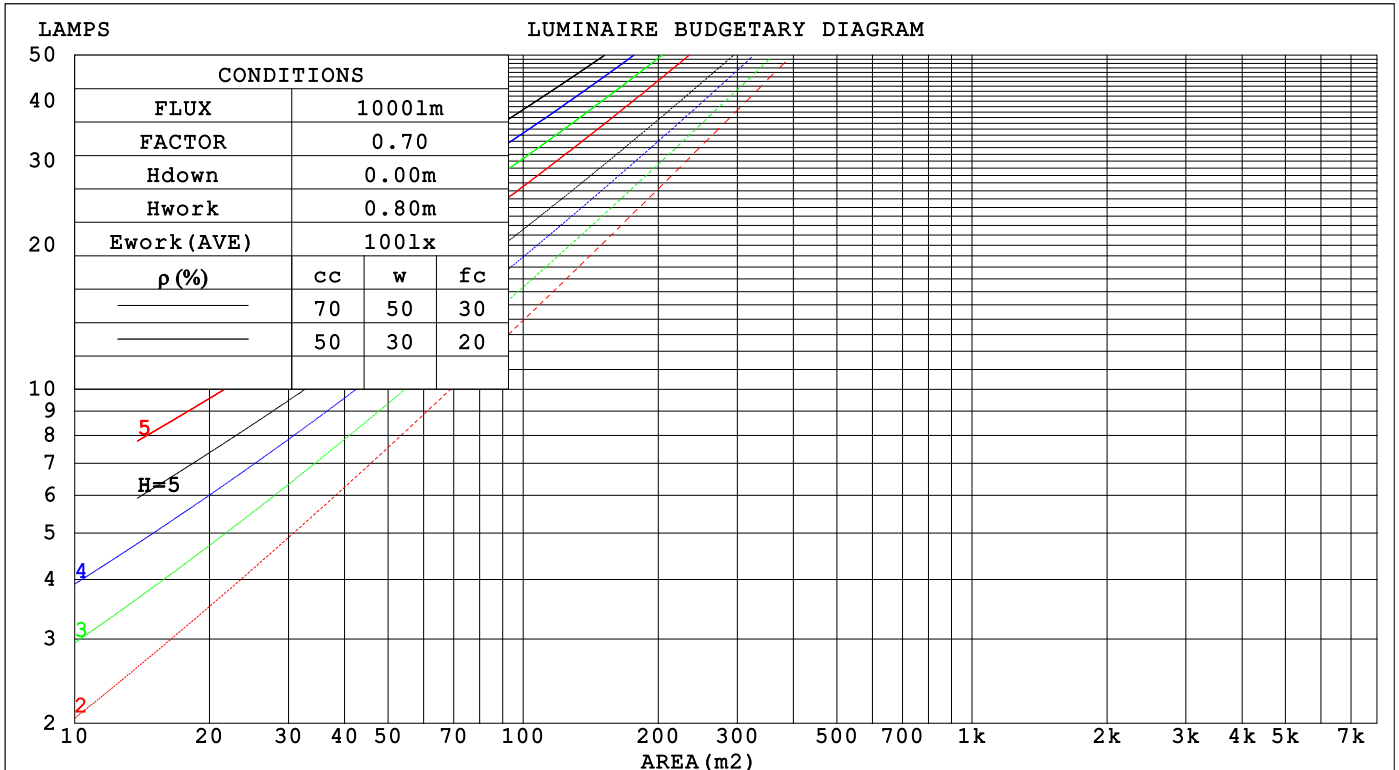
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.66lx1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.02	.98	.93	1.00	.96	.92	.96	.92	.89	.92	.89	.86	.88	.86	.84	.81
2.0	.89	.81	.75	.87	.80	.74	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67
3.0	.78	.69	.62	.76	.68	.62	.73	.66	.61	.70	.64	.59	.68	.63	.58	.56
4.0	.69	.59	.52	.67	.59	.52	.65	.57	.51	.62	.56	.51	.60	.55	.50	.48
5.0	.61	.52	.45	.60	.51	.45	.58	.50	.44	.56	.49	.44	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.39	.50	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.40	.34	.47	.40	.34	.46	.39	.34	.45	.38	.34	.32
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz								
Lamp Flux:432.661x1 lm								
NAME:			TYPE: 壁灯			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.:		
MFR.: EVERFINE			SUR.: 240mm			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	.339	.193	.061	.331	.189	.060	.318	.182	.058	.306	.176	.057	.294	.171	.055	
2.0	.309	.169	.052	.302	.166	.051	.290	.161	.050	.279	.157	.049	.269	.152	.048	
3.0	.281	.150	.045	.276	.148	.044	.265	.144	.044	.256	.140	.043	.246	.136	.042	
4.0	.257	.134	.039	.252	.132	.039	.243	.129	.038	.234	.126	.038	.226	.123	.037	
5.0	.236	.120	.035	.232	.119	.035	.224	.117	.034	.216	.114	.034	.209	.112	.034	
6.0	.218	.109	.031	.214	.108	.031	.207	.106	.031	.200	.104	.031	.194	.102	.030	
7.0	.203	.100	.028	.199	.099	.028	.193	.097	.028	.186	.096	.028	.181	.094	.028	
8.0	.189	.092	.026	.186	.091	.026	.180	.090	.026	.174	.088	.025	.169	.087	.025	
9.0	.177	.085	.024	.174	.085	.024	.169	.083	.024	.164	.082	.023	.159	.081	.023	
10.0	.166	.079	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.136	.087	.050	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.130	.079	.040	.089	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.082	.038	.124	.071	.033	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.018	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.66lx1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	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	13.6	15.2	13.9	15.4	15.6	12.0	13.5	12.3	13.8	14.0
3H	15.2	16.7	15.5	16.9	17.1	12.7	14.2	13.0	14.4	14.7
4H	15.9	17.3	16.2	17.6	17.8	12.9	14.3	13.2	14.5	14.8
6H	16.6	17.9	16.9	18.2	18.4	12.9	14.2	13.2	14.4	14.7
8H	16.9	18.2	17.2	18.4	18.7	12.8	14.1	13.2	14.4	14.6
12H	17.2	18.4	17.6	18.7	19.1	12.8	14.0	13.1	14.3	14.6
4H 2H	13.9	15.3	14.2	15.5	15.8	12.6	13.9	12.9	14.2	14.5
3H	15.6	16.8	16.0	17.1	17.5	13.5	14.7	13.8	15.0	15.3
4H	16.5	17.6	16.8	17.9	18.2	13.6	14.8	14.0	15.1	15.4
6H	17.3	18.3	17.7	18.6	19.0	13.7	14.7	14.1	15.0	15.4
8H	17.7	18.6	18.1	19.0	19.4	13.6	14.6	14.1	14.9	15.3
12H	18.1	19.0	18.6	19.4	19.8	13.6	14.5	14.0	14.8	15.3
8H 4H	16.5	17.4	16.9	17.8	18.2	13.9	14.8	14.3	15.2	15.6
6H	17.4	18.2	17.9	18.6	19.1	14.0	14.8	14.5	15.2	15.6
8H	18.0	18.7	18.4	19.1	19.5	14.0	14.7	14.5	15.1	15.6
12H	18.6	19.2	19.0	19.6	20.1	14.0	14.6	14.5	15.0	15.5
12H 4H	16.5	17.3	16.9	17.7	18.1	13.9	14.8	14.4	15.2	15.6
6H	17.4	18.1	17.9	18.6	19.0	14.1	14.8	14.6	15.2	15.7
8H	18.0	18.6	18.5	19.0	19.5	14.1	14.7	14.6	15.2	15.7

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.1 / - 0.1	+ 0.3 / - 0.4
1.5H	+ 0.2 / - 0.2	+ 0.2 / - 0.4
2.0H	+ 0.3 / - 0.5	+ 0.5 / - 0.6

CIE Pub.117, 432.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.9)
Area: 0.1884 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.661x1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:

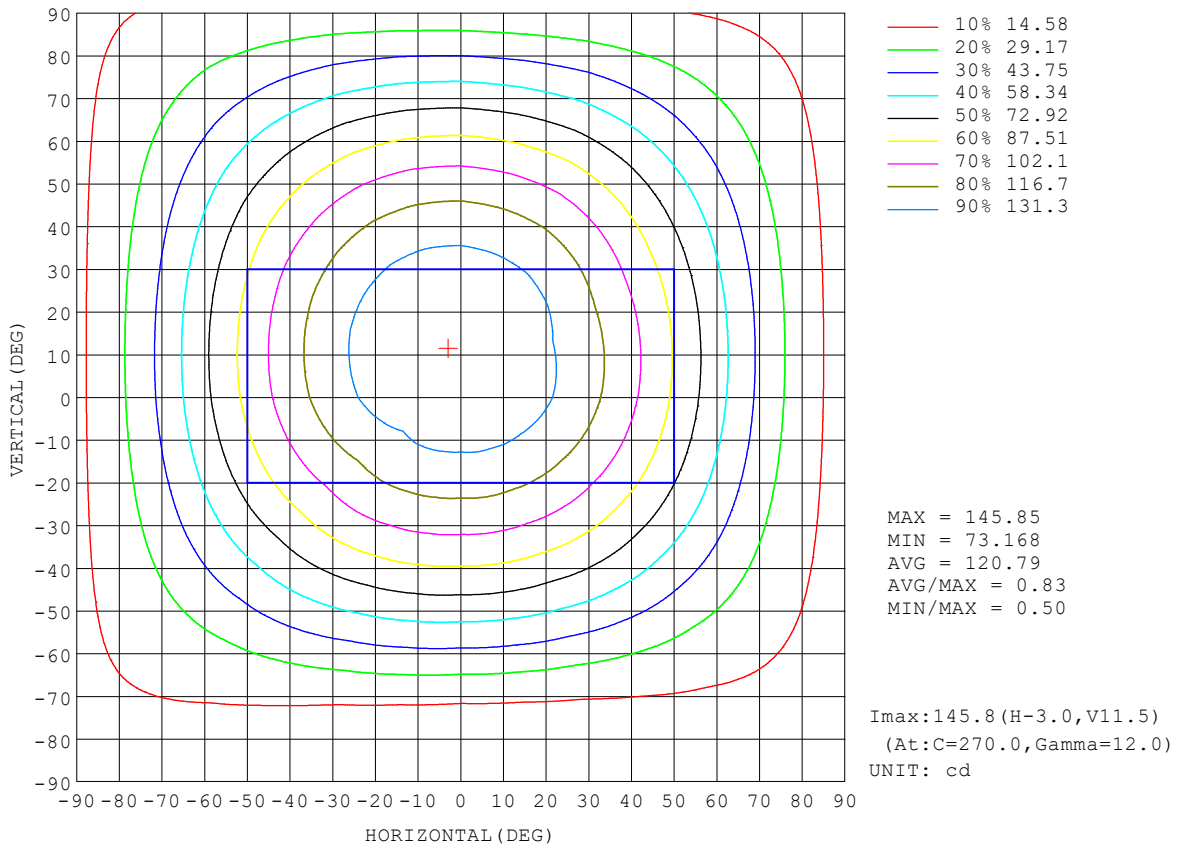
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	44	37	30
0.80	66	54	47	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	55	47
1.25	81	71	63	80	70	63	77	68	62	54
1.50	86	76	69	85	75	68	82	73	67	59
2.00	93	84	77	92	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	93	88	99	92	86	94	89	84	75
4.00	105	99	94	103	97	92	98	94	90	81
5.00	108	102	98	105	100	96	100	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.66lx1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:

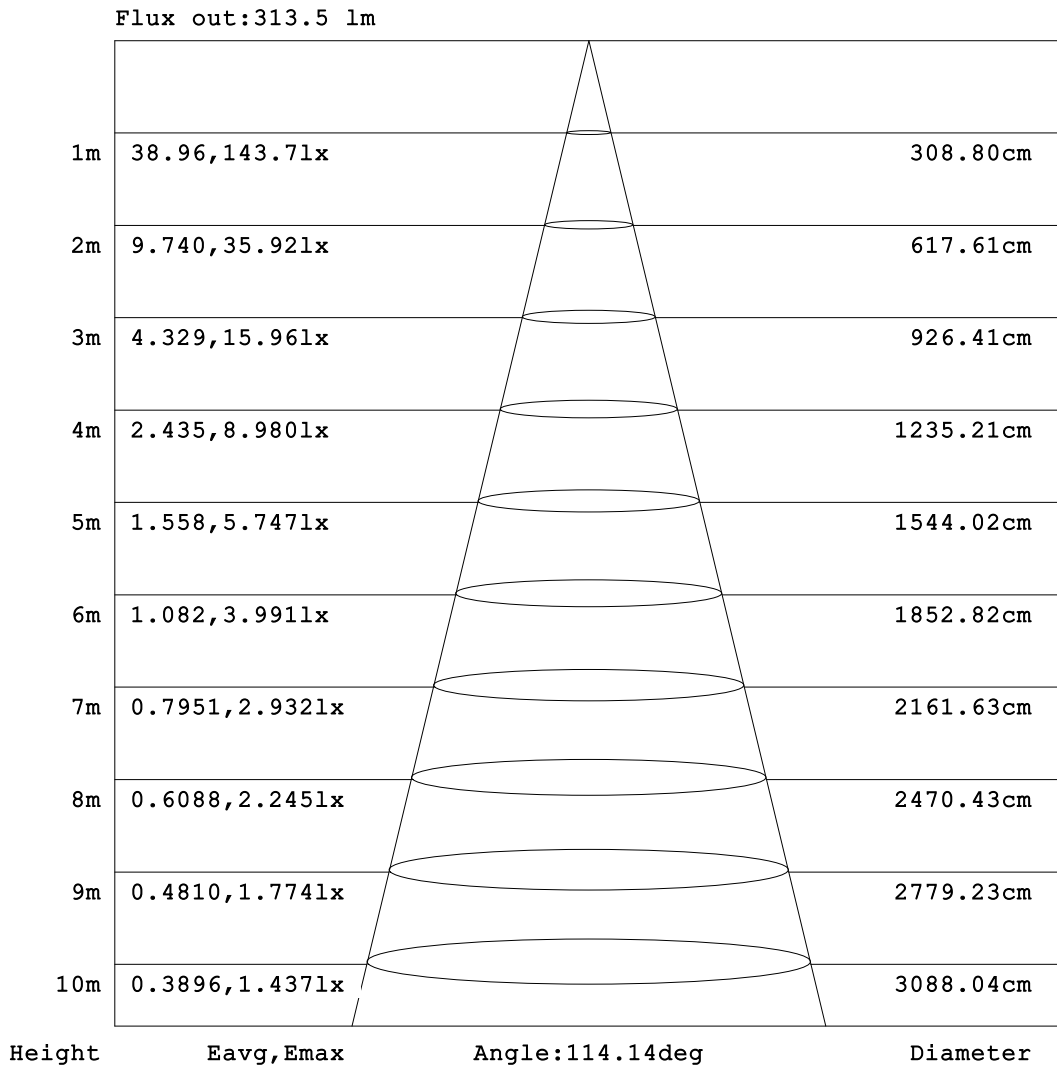


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.661x1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:



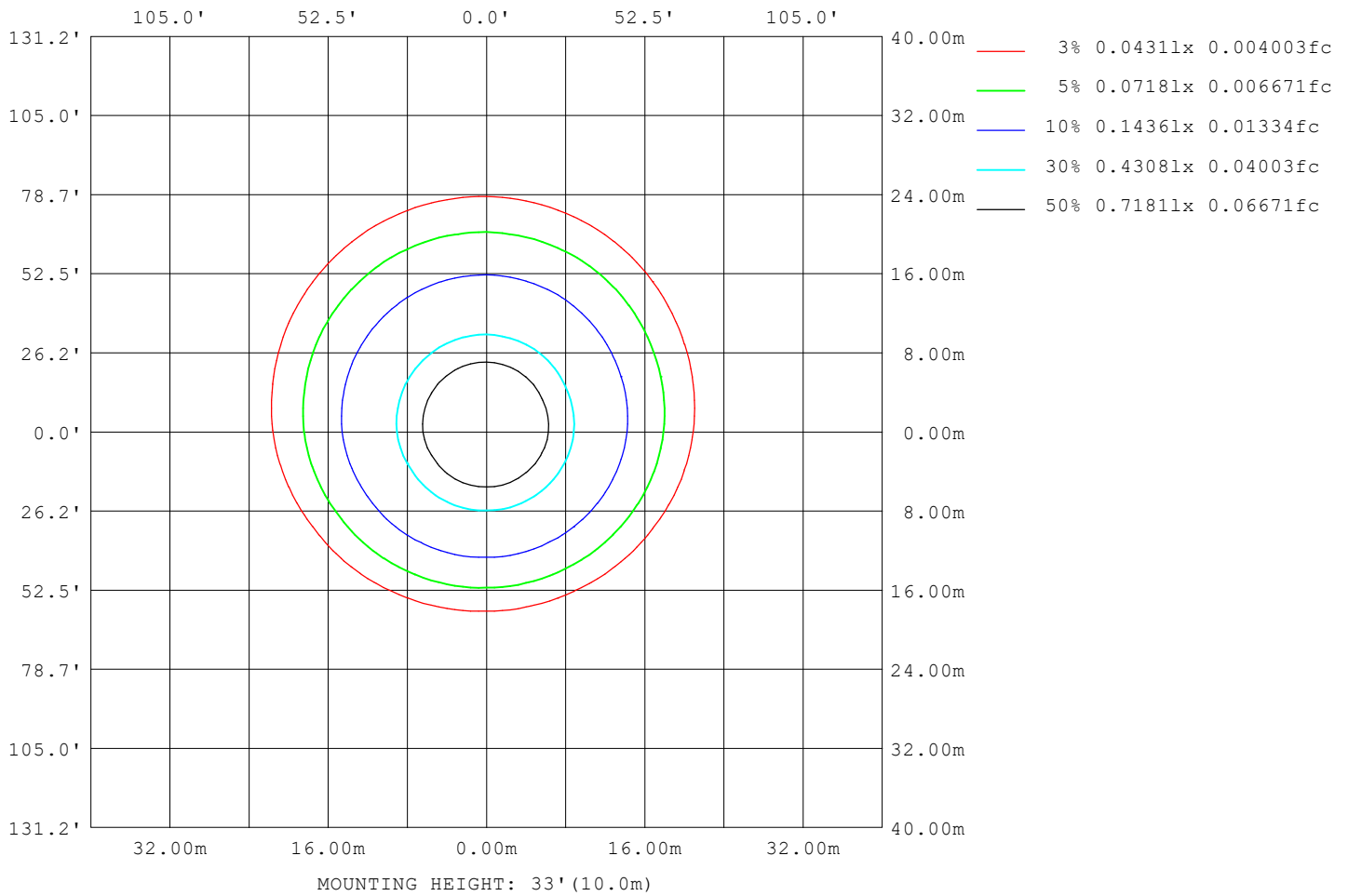
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2023-12-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:9.401m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.661x1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.38V I:0.0864A P:18.431W PF:0.9677 Freq:50.00Hz Lamp Flux:432.661x1 lm		
NAME:	TYPE: 壁灯	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.: 240mm	Shielding Angle:

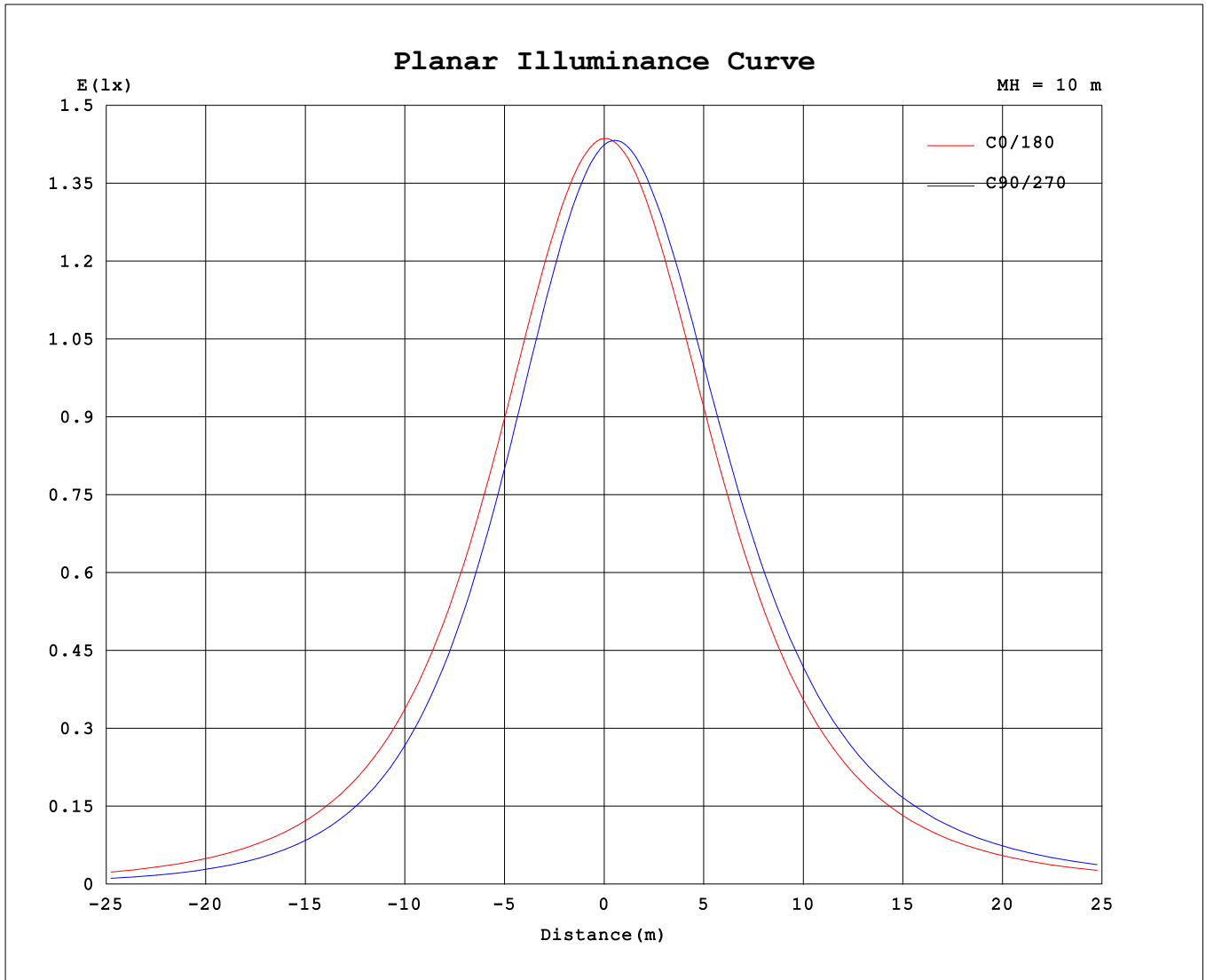
AvgL	cd/m2
L_0~180 (65) av	688
L_0~180 (75) av	678
L_0~180 (85) av	992
L_90~270 (65) av	680
L_90~270 (75) av	666
L_90~270 (85) av	964
L_45 (65) av	683
L_45 (75) av	670
L_45 (85) av	963

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:9.401m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-12-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 9.401m [K=1.0000]
 Remarks:

