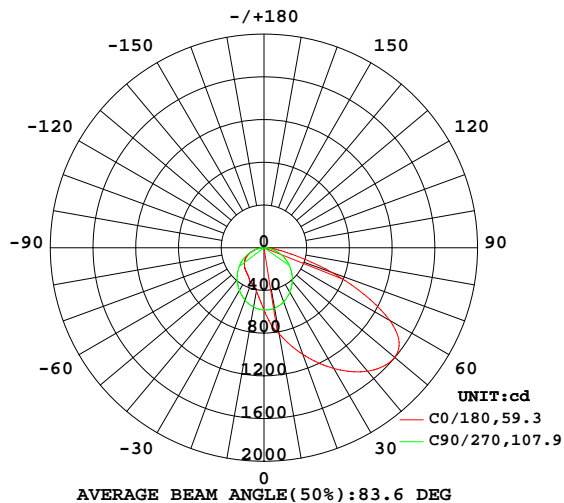


## LUMINAIRE PHOTOMETRIC TEST REPORT

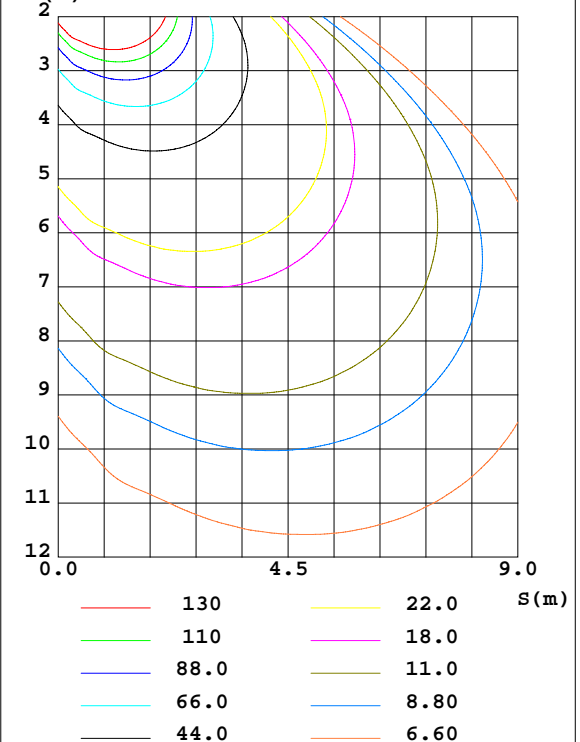
Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.83 lm/W			
MODEL		Imax(cd)	1597	S/MH(C0/180)	0.73
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2728.5	$\eta$ UP,DN(C0-180)	0.0,55.6
NOMINAL FLUX(lm)	2728.53	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,44.4
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	$\eta$ 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:  
Test Date:2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

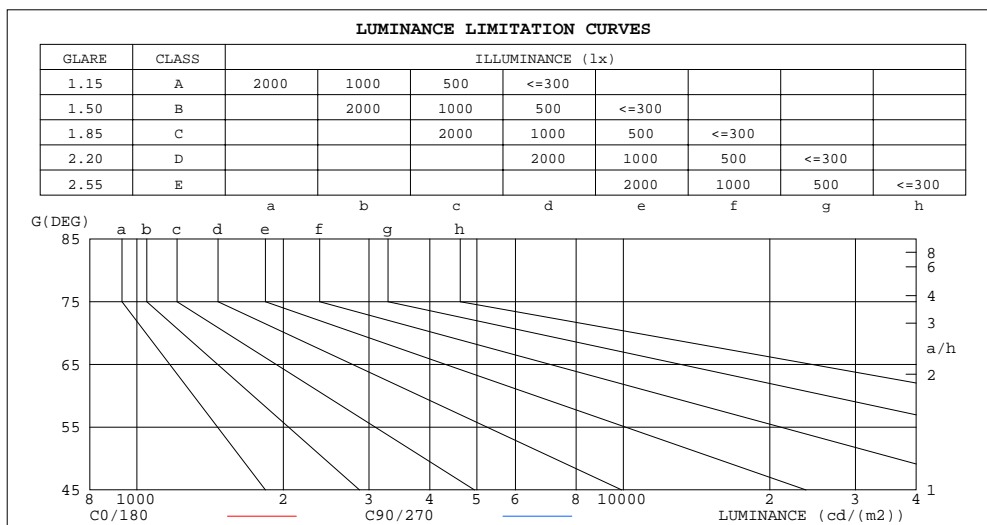
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	819.6	758.0	574.4	446.7	413.6	444.4	563.9	748.4	0- 10	56.36	56.36	2.07,2.07
20	1062	879.5	539.1	358.0	351.4	356.5	521.3	857.6	10- 20	171.7	228.1	8.36,8.36
30	1305	980.1	482.4	316.2	300.0	321.9	460.3	954.9	20- 30	291.4	519.5	19,19
40	1509	1041	413.0	262.3	271.0	267.9	391.6	1011	30- 40	404.2	923.7	33.9,33.9
50	1597	1050	333.4	216.9	240.5	226.1	314.8	1011	40- 50	493.5	1417	51.9,51.9
60	1357	1012	246.9	168.1	200.1	178.0	232.4	960.7	50- 60	530.2	1947	71.4,71.4
70	676.2	809.1	158.7	114.1	135.7	122.0	146.3	801.6	60- 70	453.0	2400	88,88
80	161.6	344.0	70.03	51.59	63.11	55.15	62.88	379.0	70- 80	256.8	2657	97.4,97.4
90	6.641	7.526	3.093	7.483	11.08	8.660	3.299	9.376	80- 90	71.34	2729	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:  
Test Date:2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	106607	51095
80	134840	58446
75	196149	63619
70	286525	67265
65	354586	69743
60	393343	71572
55	390420	73627
50	360065	75169
45	322636	76710

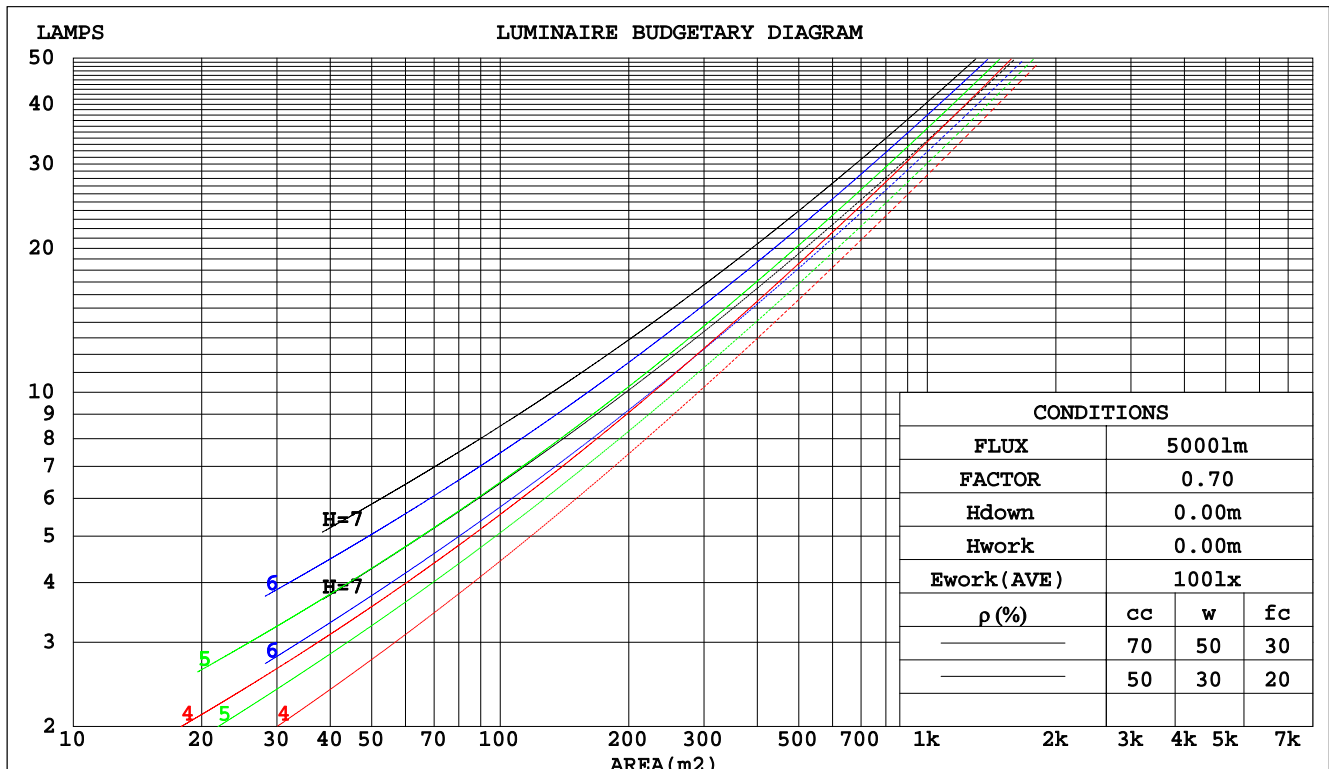
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	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	1.19	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	.97	.93	.90	.95	.91	.95	.92	.88	.91	.88	.85	.88	.85	.83	.81
2.0	.87	.79	.73	.85	.78	.72	.81	.75	.70	.78	.73	.69	.75	.71	.67	.65
3.0	.75	.66	.59	.73	.65	.58	.70	.63	.57	.67	.61	.56	.65	.59	.55	.53
4.0	.65	.56	.48	.64	.55	.48	.61	.53	.47	.59	.52	.46	.57	.51	.46	.43
5.0	.58	.48	.40	.56	.47	.40	.54	.46	.40	.52	.45	.39	.50	.44	.39	.36
6.0	.51	.41	.35	.50	.41	.34	.48	.40	.34	.47	.39	.34	.45	.38	.33	.31
7.0	.46	.36	.30	.45	.36	.30	.43	.35	.29	.42	.35	.29	.41	.34	.29	.27
8.0	.42	.32	.26	.41	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.25	.23
9.0	.38	.29	.23	.37	.29	.23	.36	.28	.23	.35	.28	.23	.34	.27	.23	.21
10.0	.35	.26	.21	.34	.26	.21	.33	.26	.21	.32	.25	.20	.31	.25	.20	.18



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

pcc	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.348	.198	.063	.341	.194	.062	.328	.188	.060	.315	.182	.058	.304	.176	.057		
2.0	.325	.178	.055	.319	.175	.054	.307	.170	.053	.296	.166	.052	.285	.161	.051		
3.0	.298	.159	.048	.292	.157	.047	.282	.153	.046	.272	.149	.046	.263	.145	.045		
4.0	.273	.142	.042	.268	.140	.041	.258	.137	.041	.249	.134	.040	.241	.131	.040		
5.0	.250	.128	.037	.246	.126	.037	.237	.124	.036	.230	.121	.036	.222	.119	.036		
6.0	.231	.116	.033	.227	.114	.033	.219	.112	.033	.212	.110	.032	.205	.108	.032		
7.0	.213	.105	.030	.210	.105	.030	.203	.103	.030	.197	.101	.029	.191	.099	.029		
8.0	.198	.097	.027	.195	.096	.027	.189	.094	.027	.183	.093	.027	.178	.091	.027		
9.0	.185	.089	.025	.182	.089	.025	.177	.087	.025	.172	.086	.025	.167	.085	.024		
10.0	.173	.083	.023	.171	.082	.023	.166	.081	.023	.161	.080	.023	.157	.079	.023		

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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015		
2.0	.177	.132	.094	.151	.113	.081	.104	.078	.057	.060	.046	.033	.019	.015	.011		
3.0	.170	.114	.070	.146	.099	.061	.100	.069	.043	.058	.040	.025	.019	.013	.008		
4.0	.163	.102	.055	.140	.088	.048	.096	.061	.034	.056	.036	.020	.018	.012	.007		
5.0	.155	.091	.044	.133	.079	.038	.092	.055	.027	.053	.032	.016	.017	.011	.005		
6.0	.148	.083	.037	.127	.072	.032	.088	.050	.023	.051	.030	.013	.016	.010	.004		
7.0	.141	.076	.031	.121	.066	.027	.084	.046	.019	.049	.027	.011	.016	.009	.004		
8.0	.134	.071	.027	.115	.061	.024	.080	.043	.017	.046	.025	.010	.015	.008	.003		
9.0	.128	.066	.024	.110	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003		
10.0	.122	.061	.021	.105	.053	.019	.073	.038	.013	.042	.022	.008	.014	.007	.003		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 310*100*27			SERIAL No.:			
MFR.:					SUR.:0.3*0.023			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	36.9	38.6	37.2	38.8	39.0	30.5	32.1	30.7	32.3	32.5	
	3H	38.5	40.0	38.8	40.2	40.5	31.6	33.1	31.9	33.4	33.6
	4H	38.8	40.3	39.1	40.5	40.8	32.1	33.5	32.4	33.8	34.1
	6H	38.9	40.3	39.2	40.5	40.8	32.4	33.8	32.8	34.1	34.4
	8H	38.9	40.2	39.2	40.5	40.8	32.5	33.9	32.9	34.1	34.4
	12H	38.9	40.2	39.2	40.5	40.8	32.6	33.9	32.9	34.2	34.5
4H	2H	37.3	38.8	37.7	39.1	39.3	33.4	34.8	33.7	35.1	35.4
	3H	39.2	40.5	39.5	40.8	41.1	34.7	36.0	35.1	36.3	36.6
	4H	39.6	40.8	40.0	41.1	41.5	35.3	36.4	35.6	36.8	37.1
	6H	39.8	40.9	40.2	41.2	41.6	35.7	36.7	36.1	37.1	37.4
	8H	39.9	40.8	40.3	41.2	41.6	35.8	36.8	36.2	37.1	37.5
	12H	39.9	40.8	40.3	41.2	41.6	35.9	36.8	36.3	37.2	37.6
8H	4H	39.9	40.9	40.3	41.3	41.6	36.5	37.5	36.9	37.8	38.2
	6H	40.2	41.1	40.7	41.5	41.9	37.2	38.0	37.6	38.4	38.8
	8H	40.3	41.1	40.8	41.5	41.9	37.4	38.2	37.9	38.6	39.1
	12H	40.4	41.0	40.9	41.5	41.9	37.6	38.3	38.1	38.7	39.2
12H	4H	39.9	40.8	40.3	41.2	41.6	36.6	37.5	37.0	37.9	38.3
	6H	40.3	41.0	40.8	41.5	41.9	37.4	38.1	37.8	38.5	39.0
	8H	40.4	41.1	40.9	41.5	42.0	37.7	38.4	38.2	38.8	39.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.5 / - 0.8					+ 0.5 / - 0.7					

CIE Pub.117, 2729 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 3.5$ )

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

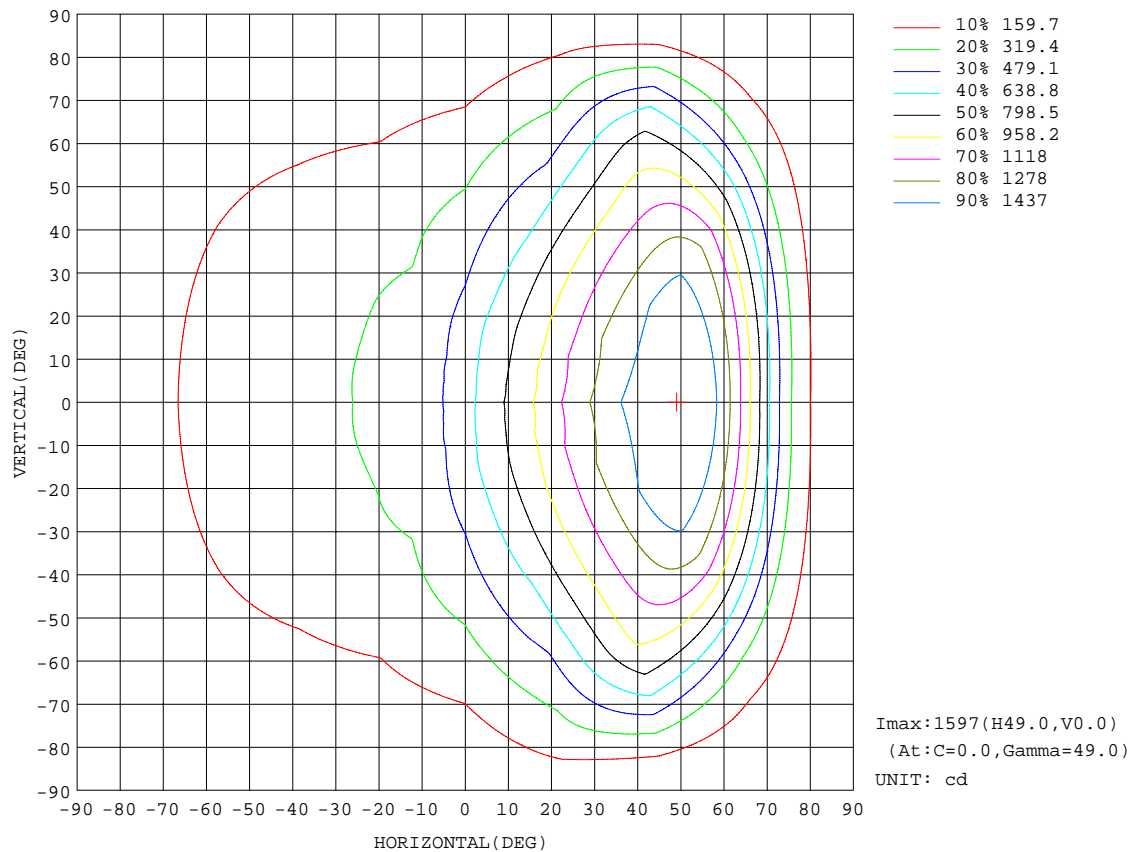
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	51	39	31	50	38	31	49	38	31	24
0.80	61	49	40	60	48	40	58	47	40	32
1.00	70	58	50	69	57	49	67	59	49	41
1.25	78	66	58	76	65	58	74	64	57	49
1.50	83	72	64	82	71	64	78	69	63	54
2.00	91	81	74	89	80	73	86	78	72	63
2.50	96	87	80	94	86	79	90	83	77	68
3.00	100	92	86	97	90	84	93	87	82	73
4.00	104	98	92	102	96	91	97	93	88	79
5.00	107	102	97	105	100	95	100	96	92	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



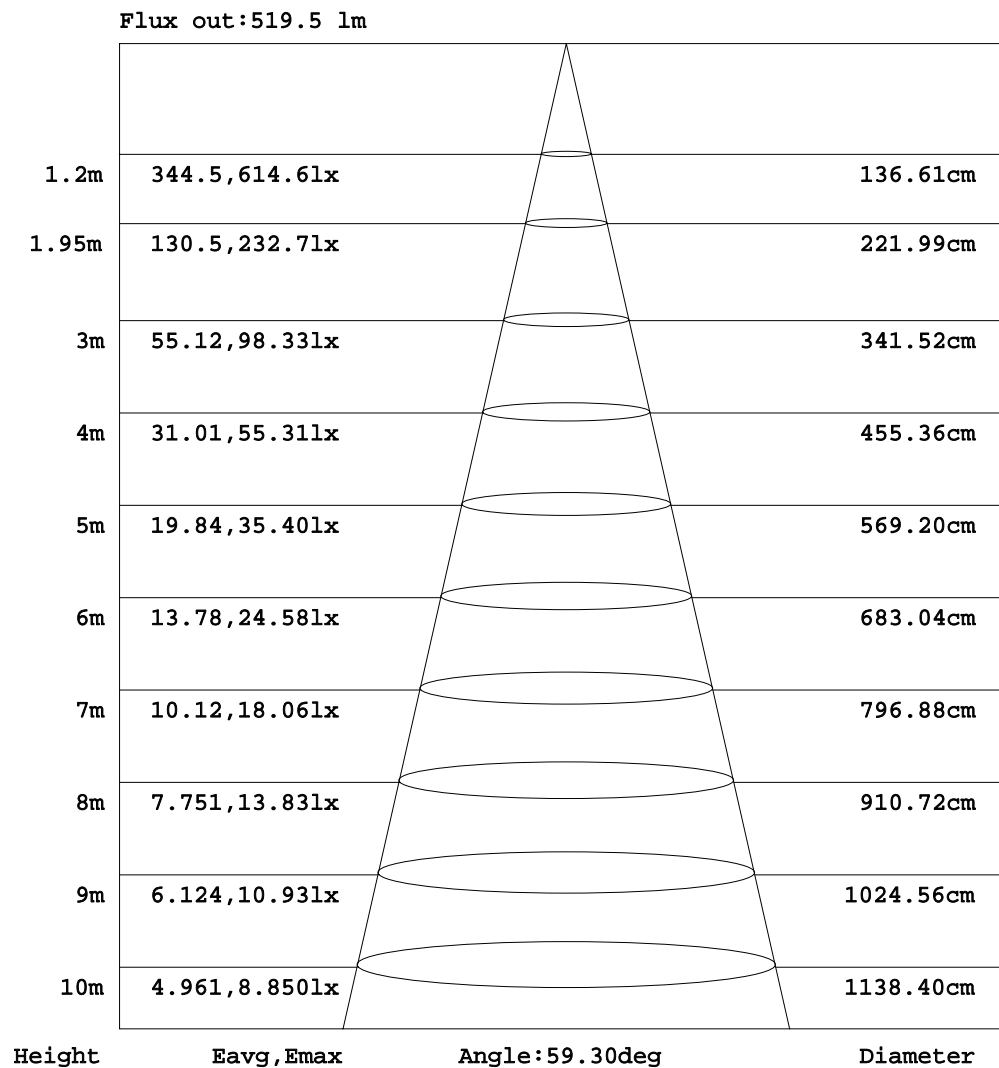
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



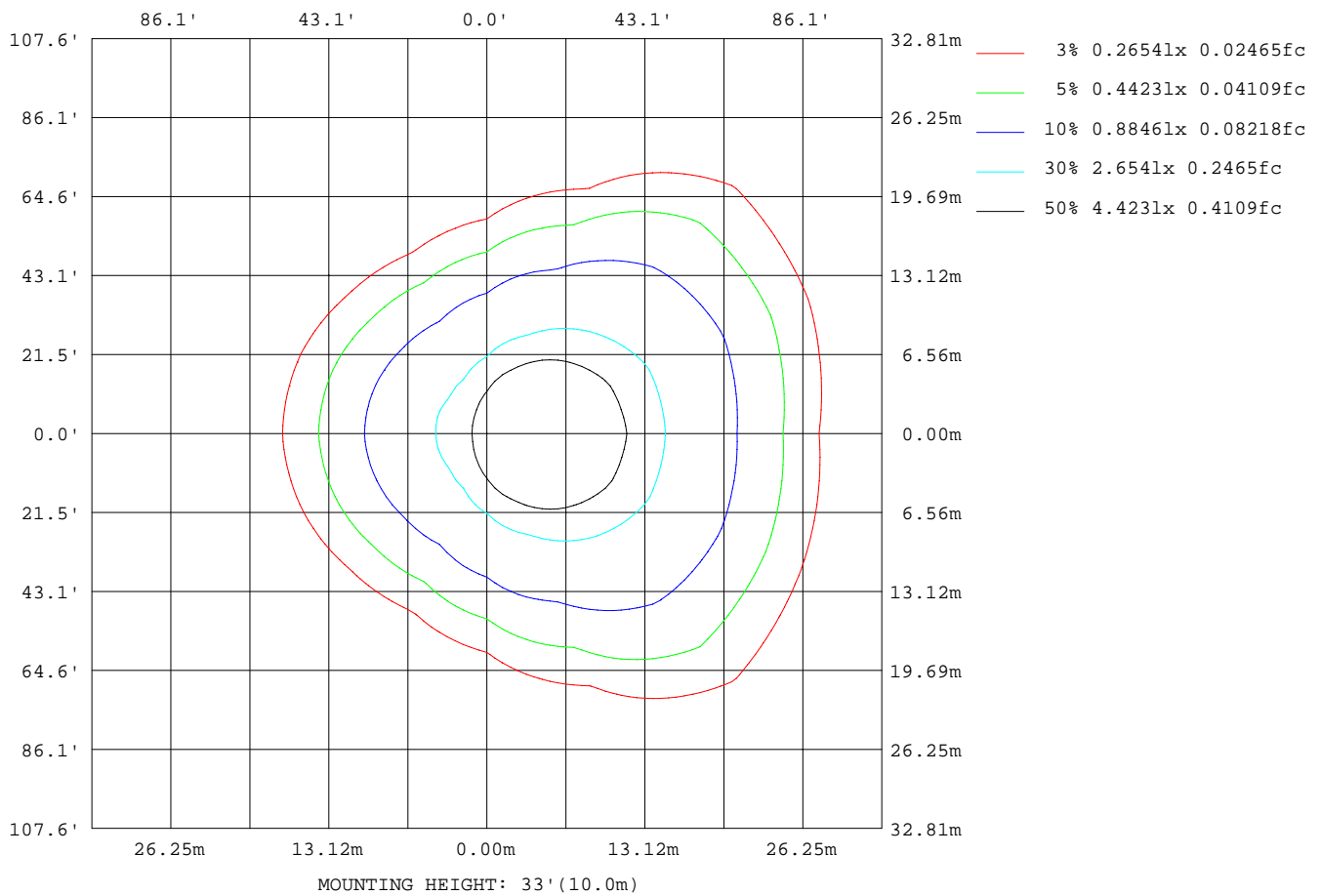
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2026-01-14

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
 Humidity: 65.0%  
 Test Distance: 11.700m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:229.65V I:0.1037A P:23.157W PF:0.9726 Freq:49.99Hz Lamp Flux:2728.53x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

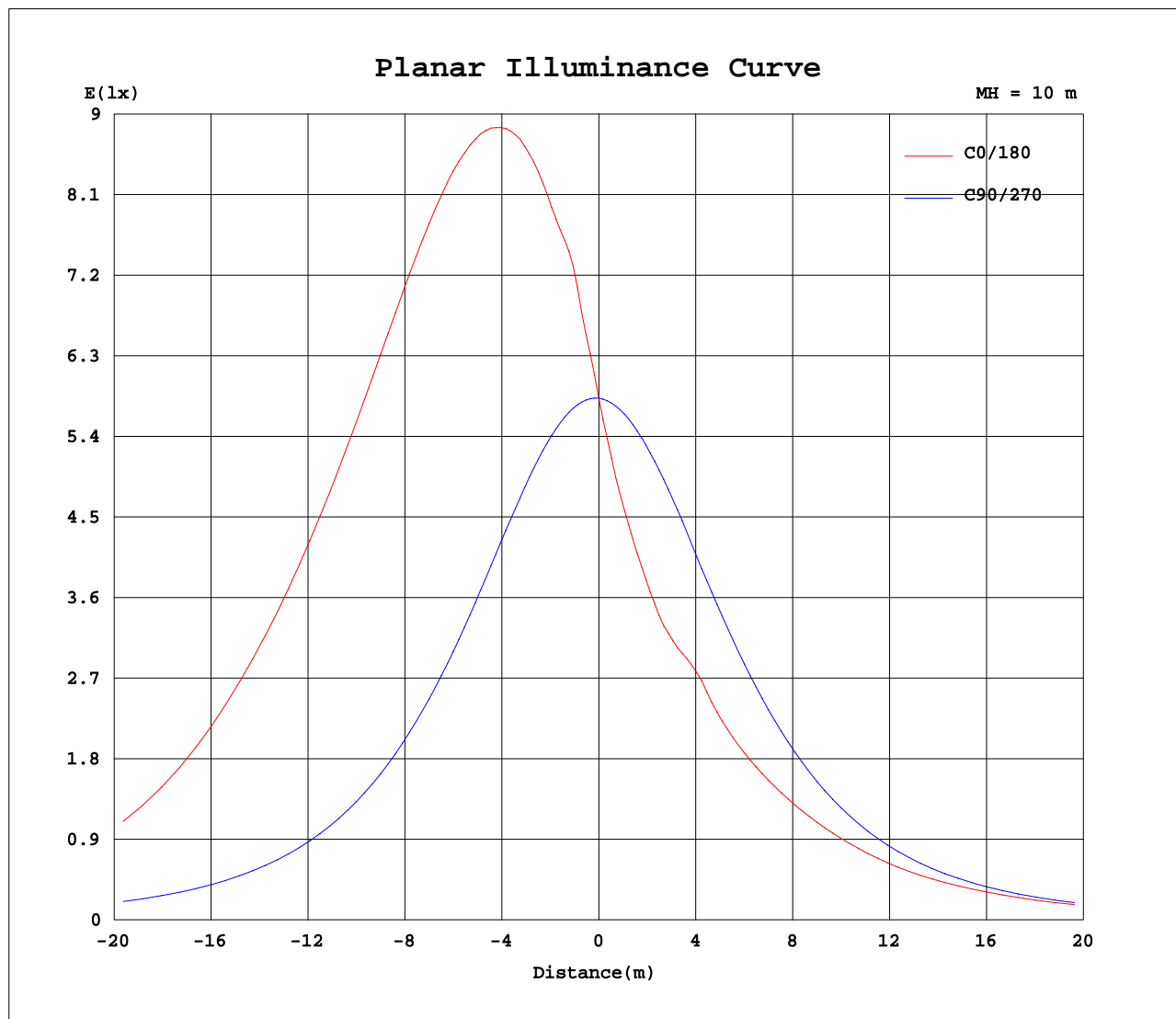
AvgL	cd/m2
L_0~180(65)av	206497
L_0~180(75)av	125944
L_0~180(85)av	80150
L_90~270(65)av	67361
L_90~270(75)av	60834
L_90~270(85)av	47769
L_45(65)av	185076
L_45(75)av	194359
L_45(85)av	143690

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-14

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity:65.0%  
Test Distance:11.700m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2026-01-14

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.406.10  
Humidity: 65.0%  
Test Distance: 11.700m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```