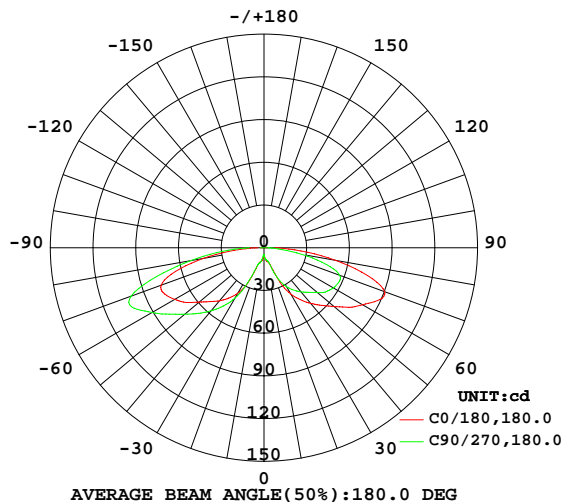


## LUMINAIRE PHOTOMETRIC TEST REPORT

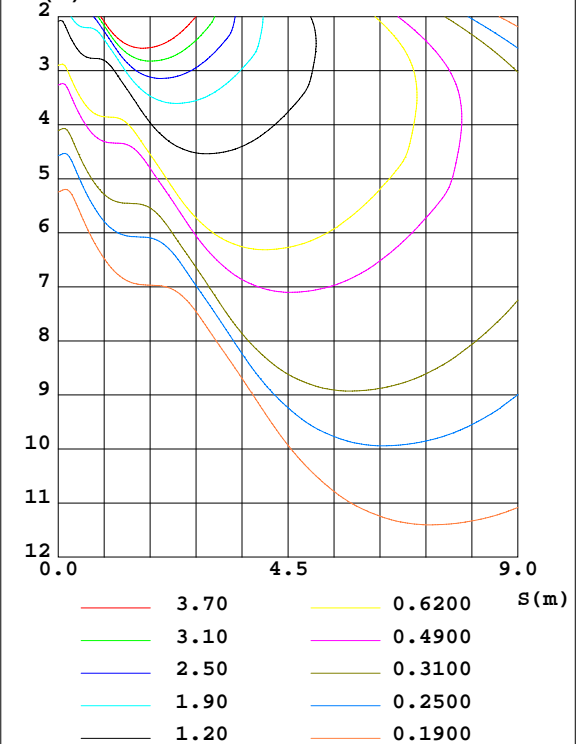
Test:U:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.56 lm/W			
MODEL		Imax(cd)	104.3	S/MH(C0/180)	5.06
NOMINAL POWER(W)	6.5	LOR(%)	100.0	S/MH(C90/270)	5.35
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	323.97	$\eta$ UP,DN(C0-180)	0.0,44.2
NOMINAL FLUX(lm)	323.97	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,55.8
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.55

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:2023-12-18

$\gamma$  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:

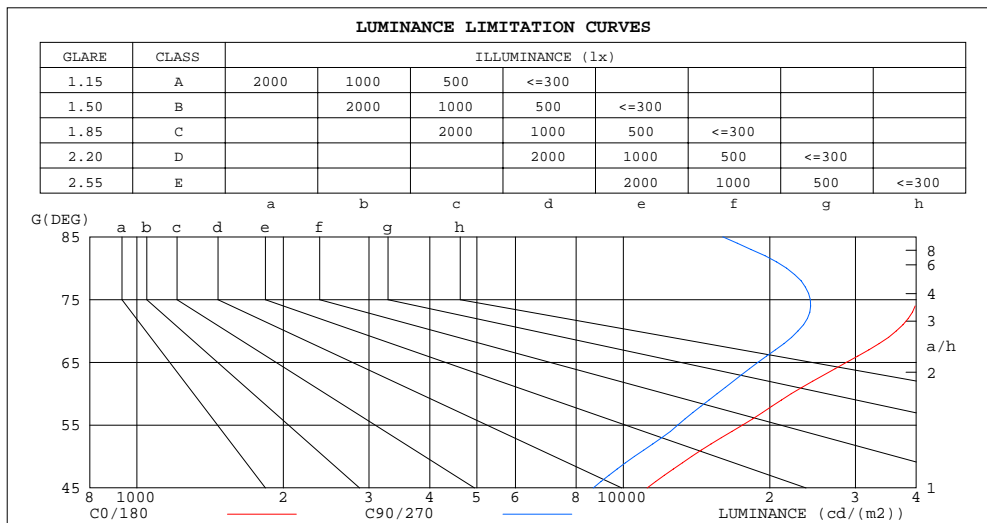
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	9.177	8.872	8.639	8.932	9.389	9.280	8.506	8.563	0- 10	0.7118	0.7118	0.22,0.22
20	12.85	13.55	13.25	13.68	13.51	12.79	12.89	12.67	10- 20	3.002	3.714	1.15,1.15
30	37.43	36.01	31.52	36.63	36.97	38.98	40.90	39.79	20- 30	12.52	16.23	5.01,5.01
40	51.01	46.73	40.47	45.52	48.63	53.82	57.78	56.15	30- 40	27.75	43.98	13.6,13.6
50	64.22	57.07	48.98	54.36	59.49	67.56	72.68	70.62	40- 50	43.26	87.24	26.9,26.9
60	80.06	67.22	56.37	63.24	72.49	84.40	90.82	90.44	50- 60	62.18	149.4	46.1,46.1
70	90.04	72.65	56.53	66.04	76.80	91.34	99.25	98.57	60- 70	80.09	229.5	70.8,70.8
80	50.78	42.99	27.18	36.98	43.17	49.44	52.42	51.56	70- 80	69.32	298.8	92.2,92.2
90	7.741	3.814	3.110	3.703	4.296	7.715	10.27	10.26	80- 90	25.14	324.0	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:2023-12-18

$\gamma$  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:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	41442	16009
80	40443	21653
75	40190	24238
70	36412	22862
65	28766	18910
60	22148	15594
55	17585	12939
50	13819	10538
45	11196	8675

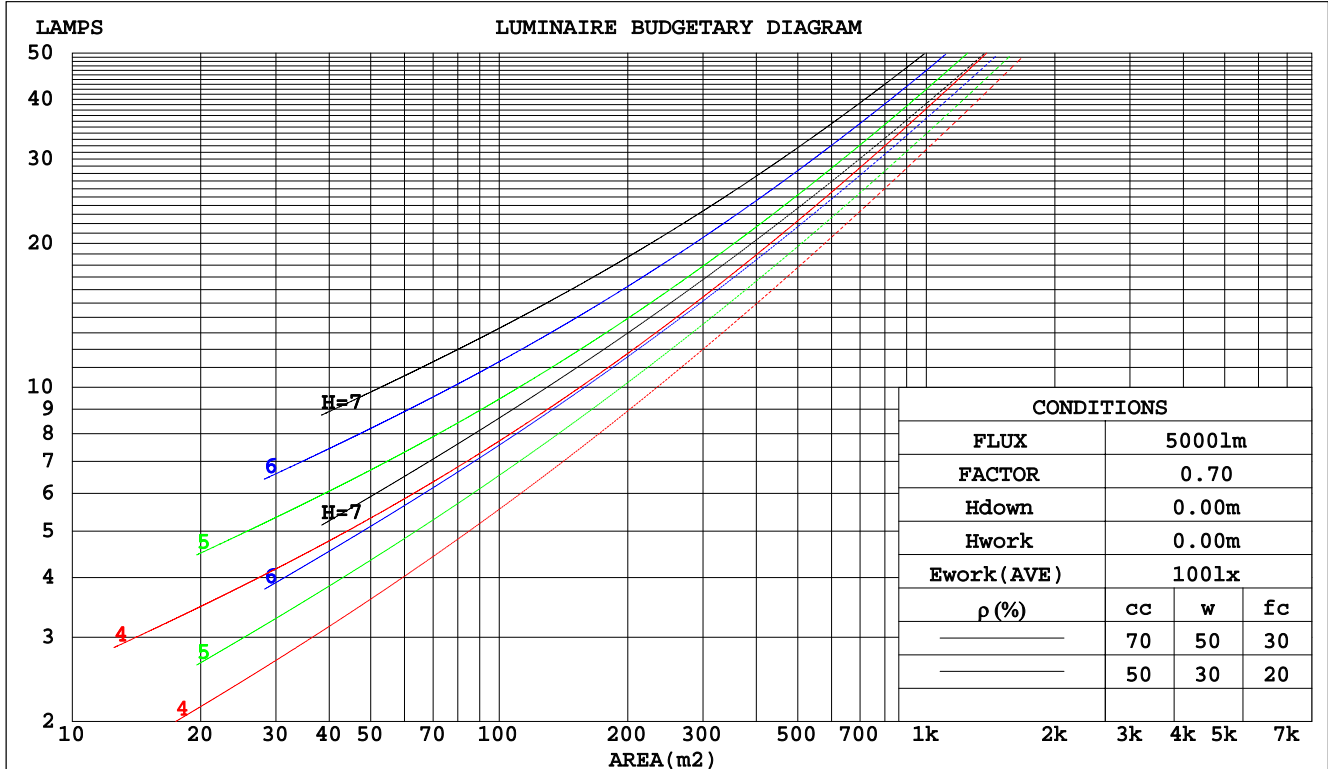
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

$\gamma$  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:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	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	.95	.88	.82	.92	.86	.80	.88	.82	.78	.83	.79	.75	.80	.76	.73	.70
2.0	.76	.66	.58	.74	.65	.57	.70	.62	.56	.67	.60	.54	.63	.58	.53	.50
3.0	.63	.51	.42	.61	.50	.42	.58	.49	.41	.55	.47	.40	.52	.45	.39	.36
4.0	.53	.41	.32	.51	.40	.32	.49	.39	.31	.46	.37	.31	.43	.36	.30	.27
5.0	.45	.34	.25	.44	.33	.25	.42	.32	.24	.39	.31	.24	.37	.30	.24	.21
6.0	.40	.28	.20	.38	.28	.20	.36	.27	.20	.34	.26	.19	.33	.25	.19	.17
7.0	.35	.24	.16	.34	.24	.16	.32	.23	.16	.31	.22	.16	.29	.21	.16	.13
8.0	.31	.21	.14	.30	.20	.14	.29	.20	.13	.27	.19	.13	.26	.19	.13	.11
9.0	.28	.18	.12	.27	.18	.12	.26	.17	.11	.25	.17	.11	.24	.16	.11	.09
10.0	.25	.16	.10	.25	.16	.10	.24	.15	.10	.23	.15	.10	.22	.15	.10	.08



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 100*120			SERIAL No.:		
MFR.:			SUR.:3.14*0.048*0.048			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	.487	.277	.088	.480	.274	.087	.466	.267	.085	.453	.261	.084	.441	.255	.082	
2.0	.427	.234	.072	.420	.232	.071	.407	.227	.070	.396	.222	.069	.385	.218	.069	
3.0	.376	.200	.060	.369	.198	.060	.358	.194	.059	.347	.190	.058	.337	.187	.058	
4.0	.333	.173	.051	.327	.171	.051	.317	.168	.050	.307	.165	.050	.298	.162	.049	
5.0	.297	.151	.044	.292	.150	.044	.283	.147	.043	.275	.145	.043	.267	.142	.043	
6.0	.268	.134	.038	.264	.133	.038	.256	.131	.038	.248	.129	.038	.241	.127	.038	
7.0	.244	.121	.034	.240	.120	.034	.233	.118	.034	.226	.116	.034	.220	.114	.034	
8.0	.224	.109	.031	.220	.108	.031	.214	.107	.030	.208	.105	.030	.202	.104	.030	
9.0	.206	.100	.028	.203	.099	.028	.197	.098	.028	.192	.096	.028	.187	.095	.027	
10.0	.191	.092	.025	.188	.091	.025	.183	.090	.025	.178	.089	.025	.174	.087	.025	

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	.193	.155	.120	.165	.133	.104	.113	.091	.072	.065	.053	.042	.021	.017	.013	
2.0	.190	.131	.082	.163	.113	.071	.112	.078	.049	.064	.045	.029	.021	.015	.009	
3.0	.185	.115	.059	.158	.099	.051	.109	.069	.036	.063	.040	.021	.020	.013	.007	
4.0	.177	.103	.046	.152	.089	.040	.105	.062	.028	.061	.036	.017	.019	.012	.005	
5.0	.169	.093	.037	.145	.081	.032	.100	.056	.023	.058	.033	.014	.019	.011	.004	
6.0	.161	.085	.031	.138	.074	.027	.095	.052	.019	.055	.030	.011	.018	.010	.004	
7.0	.152	.079	.027	.131	.068	.024	.091	.048	.017	.053	.028	.010	.017	.009	.003	
8.0	.145	.073	.024	.124	.063	.021	.086	.044	.015	.050	.026	.009	.016	.009	.003	
9.0	.137	.068	.021	.118	.059	.019	.082	.042	.013	.048	.025	.008	.015	.008	.003	
10.0	.130	.064	.019	.112	.055	.017	.078	.039	.012	.045	.023	.007	.015	.008	.002	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-12-18

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:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 100*120			SERIAL No.:			
MFR.:					SUR.:3.14*0.048*0.048			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	2H	23.8	25.8	24.1	26.0	26.2	22.5	24.5	22.8	24.8	25.0
	3H	27.9	29.7	28.2	30.0	30.3	25.9	27.8	26.3	28.1	28.3
	4H	29.6	31.4	29.9	31.6	31.9	27.3	29.1	27.7	29.4	29.7
	6H	30.8	32.5	31.1	32.8	33.1	28.2	29.9	28.6	30.2	30.5
	8H	31.2	32.8	31.6	33.2	33.5	28.4	30.1	28.8	30.4	30.7
	12H	31.5	33.1	31.9	33.4	33.8	28.5	30.2	28.9	30.5	30.8
4H	2H	24.8	26.6	25.2	26.9	27.2	24.1	25.8	24.4	26.1	26.4
	3H	28.9	30.6	29.3	30.9	31.2	27.5	29.1	27.9	29.4	29.8
	4H	30.8	32.2	31.2	32.6	33.0	29.0	30.5	29.4	30.8	31.2
	6H	32.1	33.4	32.5	33.8	34.2	30.0	31.3	30.4	31.7	32.1
	8H	32.6	33.8	33.0	34.2	34.6	30.3	31.5	30.7	31.9	32.3
	12H	32.9	34.1	33.4	34.5	35.0	30.4	31.6	30.8	32.0	32.4
8H	4H	31.2	32.5	31.7	32.9	33.3	29.8	31.1	30.2	31.5	31.9
	6H	32.7	33.8	33.2	34.2	34.7	31.0	32.1	31.5	32.5	32.9
	8H	33.4	34.3	33.8	34.8	35.2	31.4	32.4	31.8	32.8	33.3
	12H	33.9	34.7	34.3	35.2	35.7	31.6	32.5	32.1	32.9	33.4
12H	4H	31.3	32.4	31.7	32.8	33.3	29.9	31.1	30.4	31.5	32.0
	6H	32.8	33.8	33.3	34.3	34.7	31.2	32.2	31.7	32.6	33.1
	8H	33.5	34.4	34.0	34.8	35.3	31.7	32.5	32.1	33.0	33.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					
2.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.4					

CIE Pub.117, 324.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.9)

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:

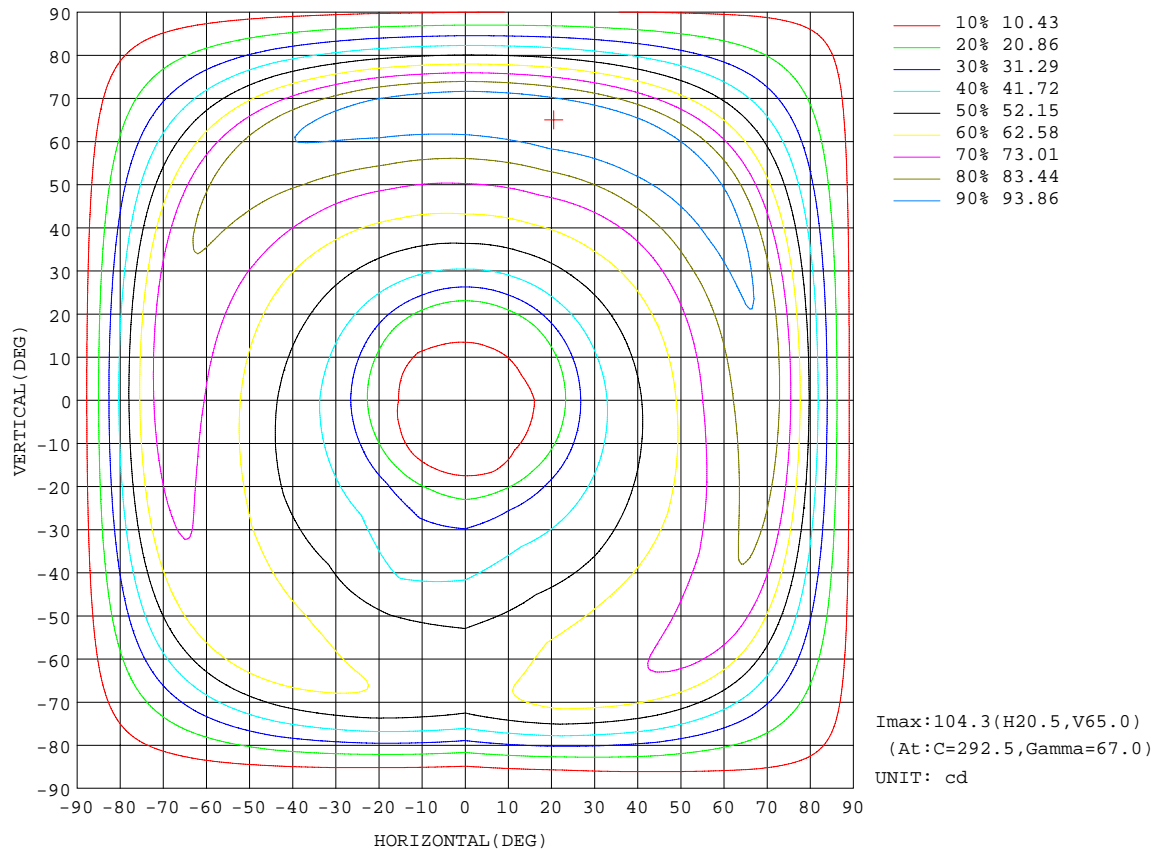
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

## ISOCANDELA DIAGRAM

Test:U:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	Shielding Angle:



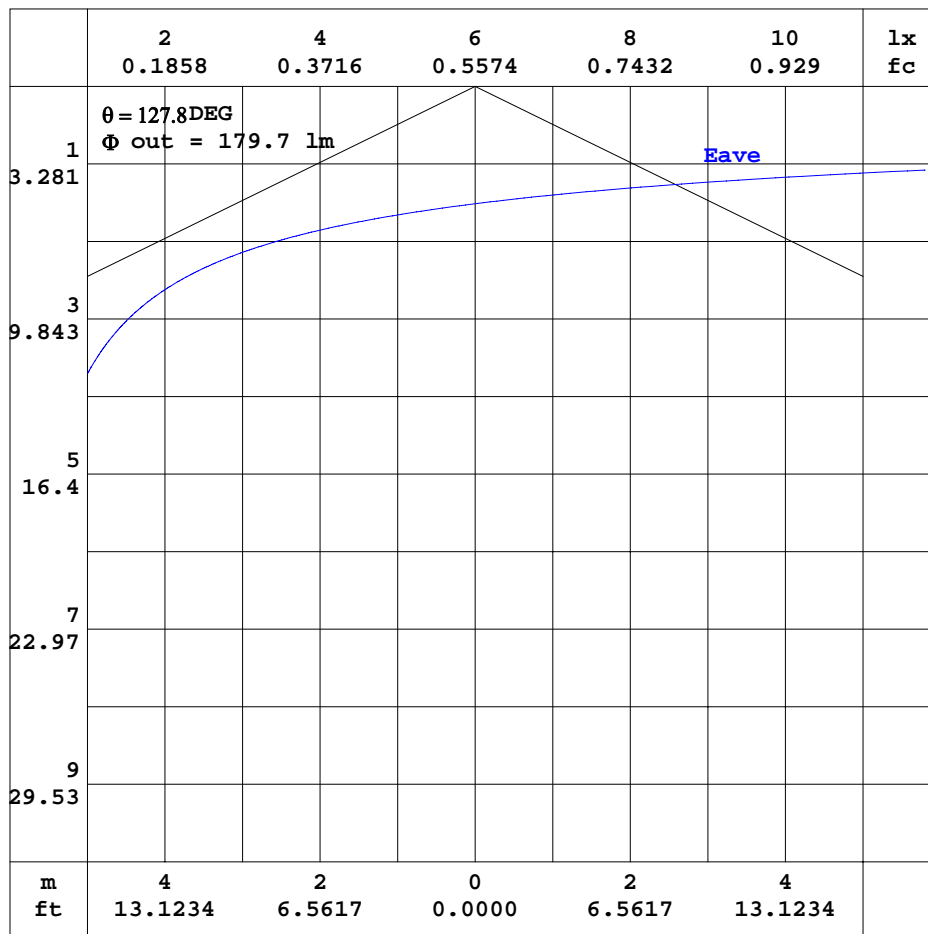
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

$\gamma$  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 CURVES

Test:U:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	Shielding Angle:



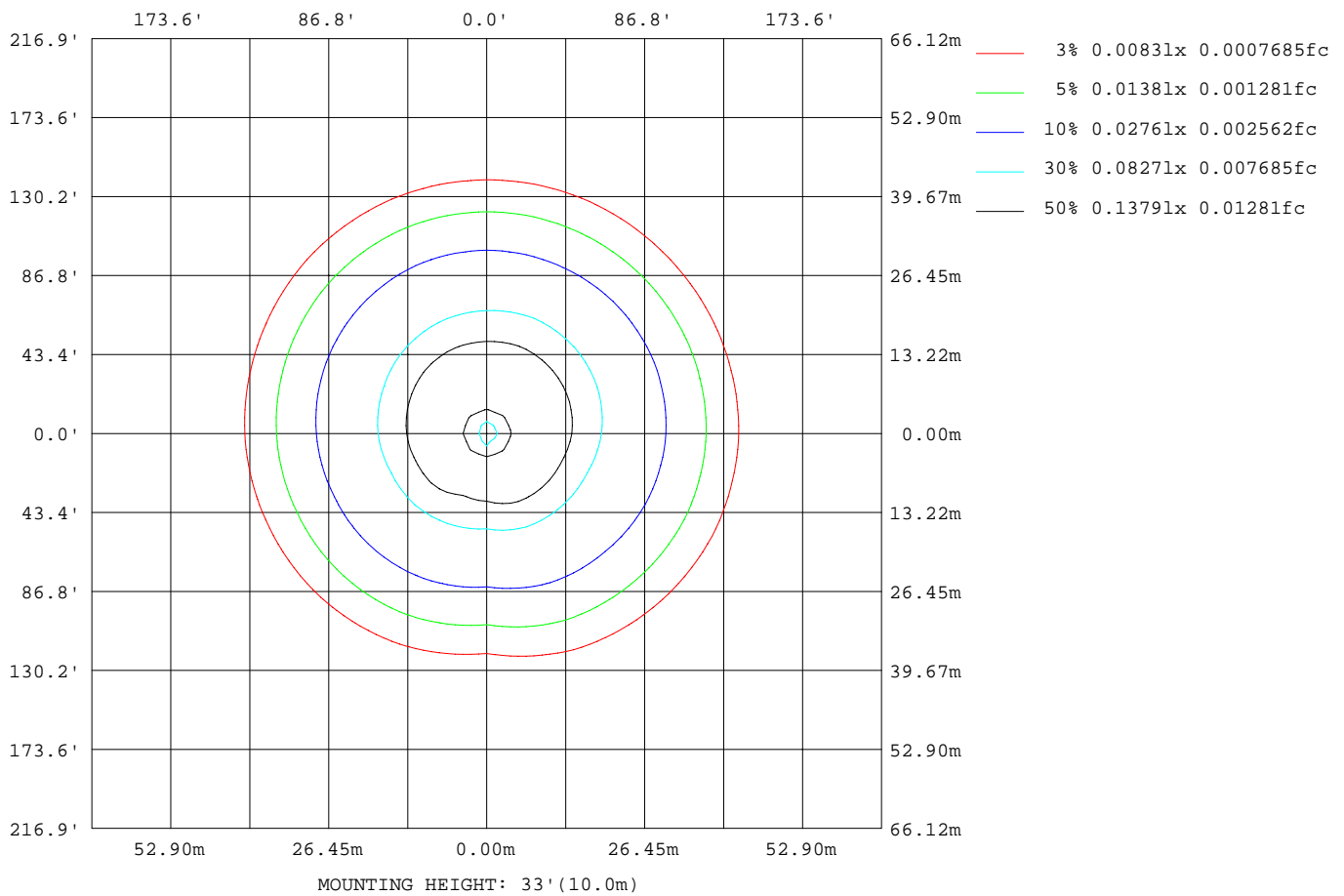
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2023-12-18

$\gamma$  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:

## LED Avg.L Report

Test:U:229.57V I:0.0316A P:6.5368W PF:0.9015 Freq:49.99Hz Lamp Flux:323.97x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 100*120	SERIAL No.:
MFR.:	SUR.:3.14*0.048*0.048	Shielding Angle:

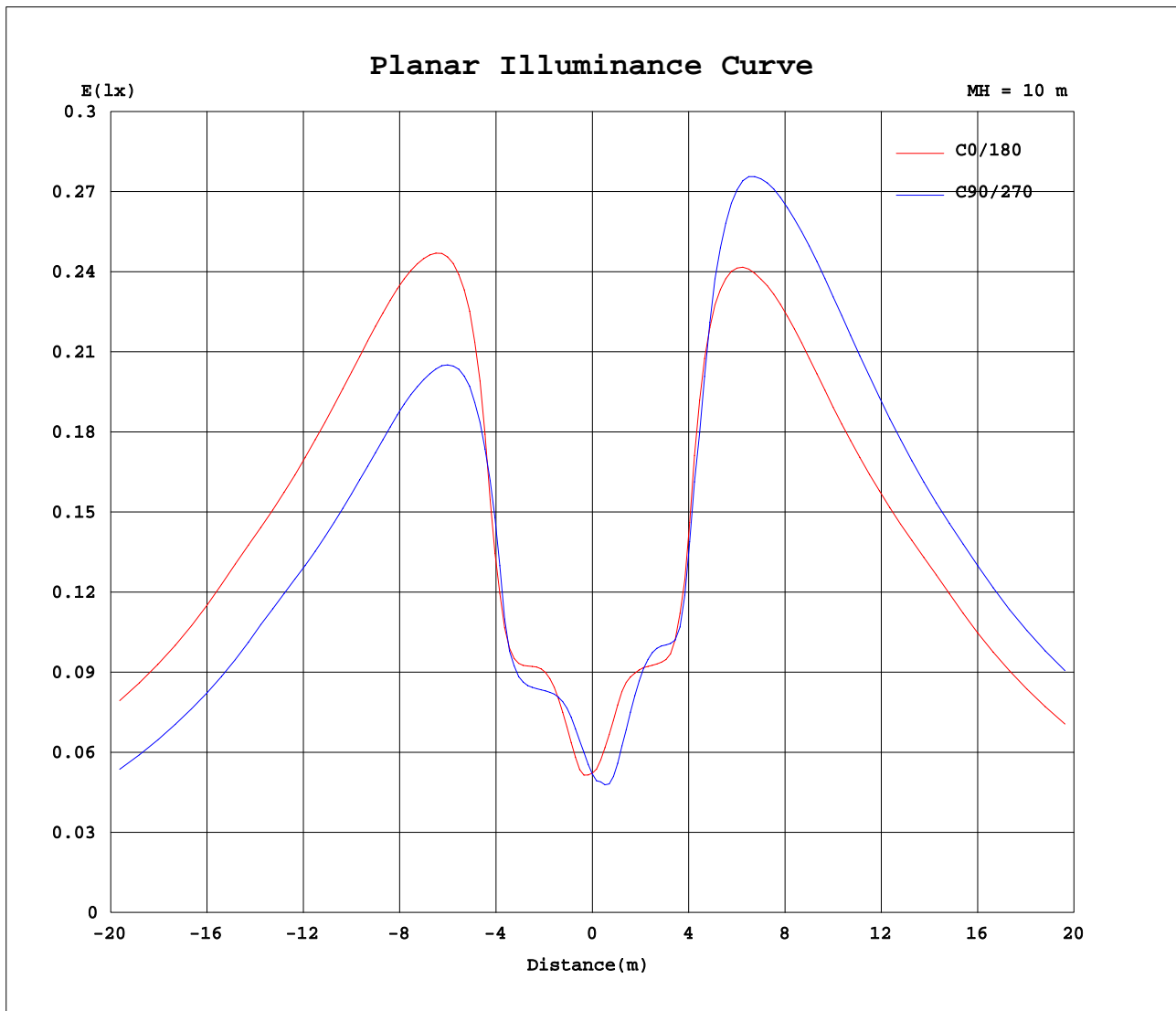
AvgL	cd/m2
L_0~180(65)av	26973
L_0~180(75)av	37296
L_0~180(85)av	37290
L_90~270(65)av	25918
L_90~270(75)av	32955
L_90~270(85)av	31170
L_45(65)av	26850
L_45(75)av	36125
L_45(85)av	35282

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2023-12-18

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: 2023-12-18

$\gamma$  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:

```