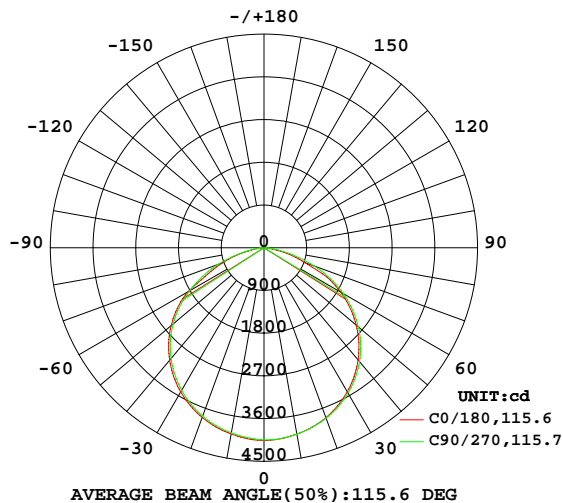


## LUMINAIRE PHOTOMETRIC TEST REPORT

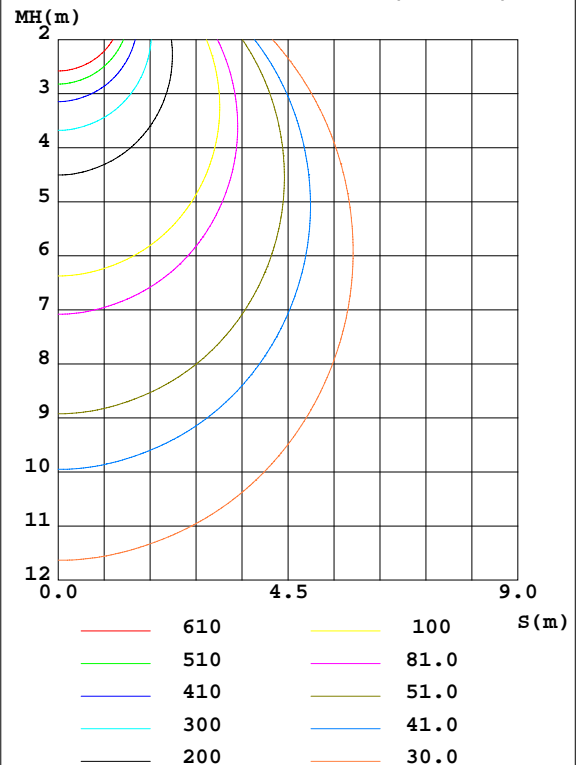
Test:U:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.92 lm/W			
MODEL		I <sub>max</sub> (cd)	4060	S/MH(C0/180)	1.29
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	11527	η UP,DN(C0-180)	0.0,50.6
NOMINAL FLUX(lm)	11527.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η 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:2025-05-09

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:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

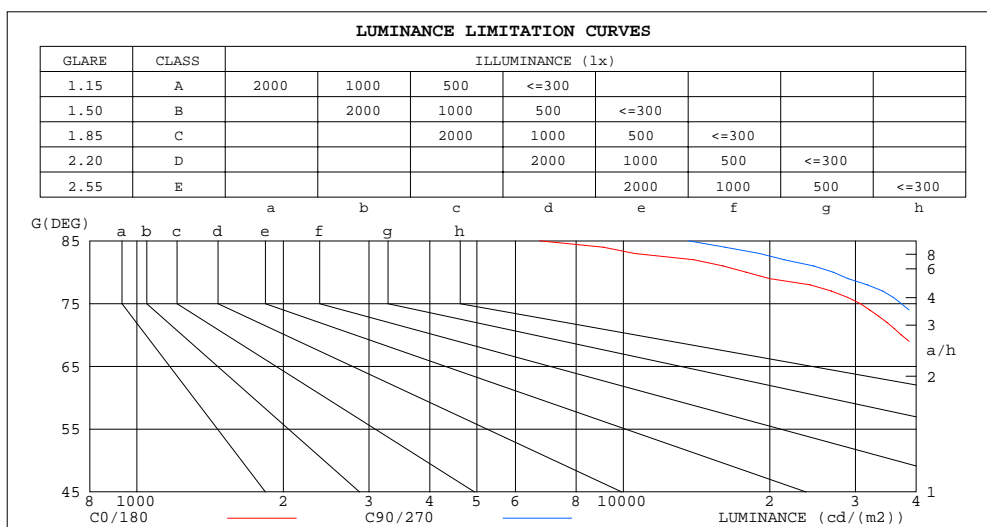
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	3986	3989	3987	3978	3983	3969	3962	3960	0- 10	382.8	382.8	3.32,3.32
20	3810	3815	3821	3807	3805	3784	3777	3777	10- 20	1102	1485	12.9,12.9
30	3506	3525	3538	3516	3510	3477	3469	3472	20- 30	1690	3174	27.5,27.5
40	3085	3103	3131	3096	3093	3048	3046	3038	30- 40	2068	5243	45.5,45.5
50	2536	2540	2594	2536	2554	2487	2501	2470	40- 50	2176	7418	64.4,64.4
60	1863	1835	1927	1835	1827	1780	1808	1770	50- 60	1968	9386	81.4,81.4
70	916.8	1032	1126	974.3	932.5	910.2	1034	971.8	60- 70	1406	10792	93.6,93.6
80	223.4	264.3	337.2	272.1	231.1	247.0	293.4	247.1	70- 80	641.6	11434	99.2,99.2
90	9.665	9.983	8.849	10.000	12.17	12.09	10.94	11.96	80- 90	93.28	11527	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:2025-05-09

$\gamma$  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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:



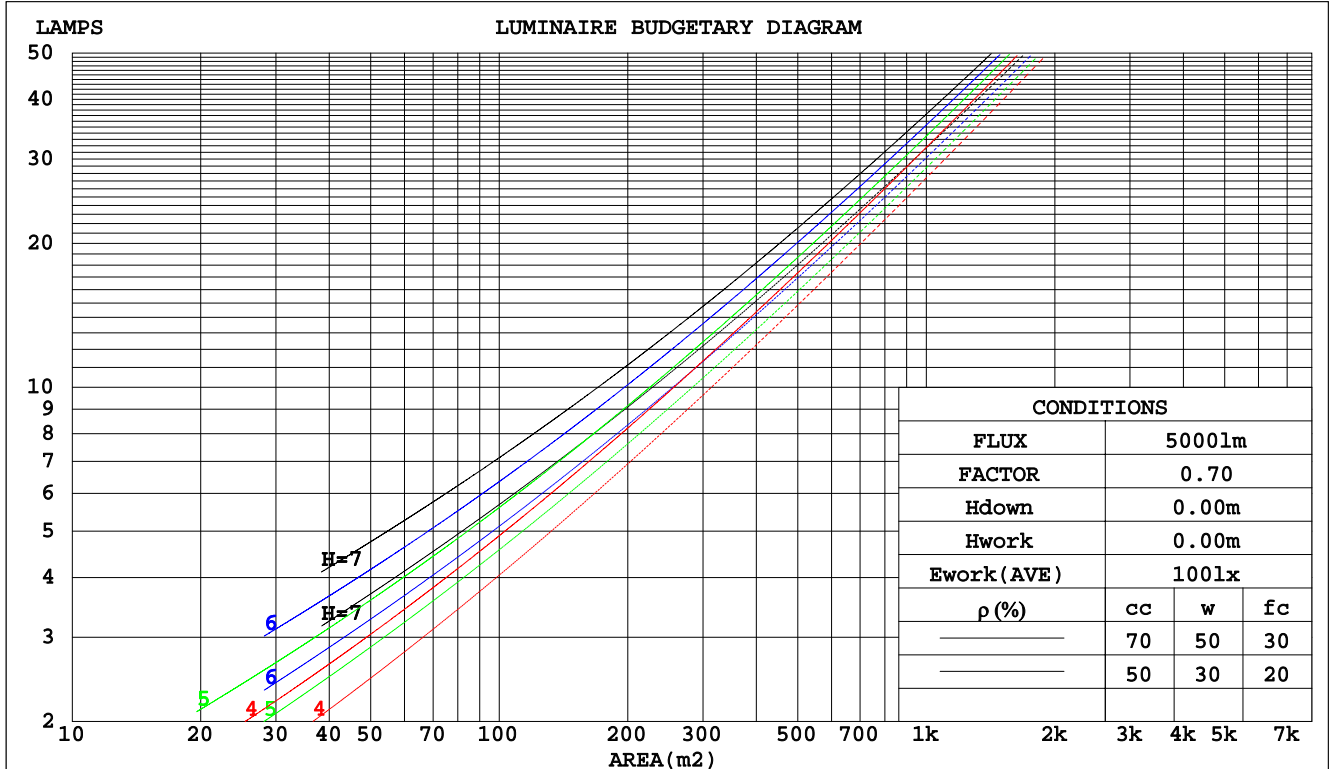
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2025-05-09

$\gamma$  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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	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	1.05	1.01	.97	1.03	.99	.95	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.79	.90	.84	.78	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.80	.72	.66	.79	.71	.65	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.65	.59	.54	.63	.58	.53	.51
5.0	.64	.55	.48	.62	.54	.48	.60	.53	.47	.58	.52	.47	.57	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.38	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.29	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-05-09

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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 760*240*31			SERIAL No.:		
MFR.:			SUR.:0.705*0.102			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	.292	.166	.053	.285	.163	.052	.272	.156	.050	.260	.150	.048	.249	.144	.046	
2.0	.281	.154	.047	.275	.151	.047	.263	.146	.045	.253	.142	.044	.243	.137	.043	
3.0	.263	.140	.042	.258	.138	.042	.247	.134	.041	.238	.130	.040	.229	.127	.039	
4.0	.245	.127	.037	.240	.125	.037	.231	.122	.037	.222	.119	.036	.214	.116	.035	
5.0	.227	.116	.034	.223	.114	.033	.215	.112	.033	.207	.109	.033	.200	.107	.032	
6.0	.211	.106	.030	.208	.105	.030	.200	.103	.030	.194	.101	.030	.187	.099	.029	
7.0	.197	.097	.028	.194	.097	.028	.187	.095	.027	.181	.093	.027	.176	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.078	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015		
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011		
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009		
4.0	.156	.101	.059	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007		
5.0	.148	.090	.048	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006		
6.0	.141	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005		
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004		
8.0	.128	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004		
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003		
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-05-09

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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 760*240*31			SERIAL No.:			
MFR.:					SUR.:0.705*0.102			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	26.9	28.4	27.2	28.6	28.8	27.0	28.5	27.3	28.7	28.9
	3H	28.1	29.5	28.4	29.7	29.9	28.4	29.8	28.7	30.0	30.3
	4H	28.4	29.7	28.7	30.0	30.2	28.9	30.2	29.2	30.4	30.7
	6H	28.5	29.8	28.9	30.0	30.3	29.1	30.3	29.4	30.6	30.9
	8H	28.5	29.7	28.8	30.0	30.3	29.1	30.3	29.4	30.6	30.9
	12H	28.5	29.6	28.8	29.9	30.2	29.1	30.2	29.4	30.5	30.8
4H	2H	27.5	28.8	27.8	29.0	29.3	27.6	28.9	27.9	29.1	29.4
	3H	28.8	29.9	29.1	30.2	30.5	29.1	30.3	29.5	30.5	30.8
	4H	29.2	30.2	29.6	30.6	30.9	29.6	30.7	30.0	31.0	31.3
	6H	29.4	30.3	29.8	30.7	31.0	29.9	30.9	30.3	31.2	31.6
	8H	29.4	30.2	29.8	30.6	31.0	30.0	30.8	30.4	31.2	31.6
	12H	29.4	30.1	29.8	30.5	30.9	30.0	30.8	30.4	31.1	31.5
8H	4H	29.3	30.2	29.8	30.6	31.0	29.7	30.6	30.1	31.0	31.3
	6H	29.6	30.3	30.0	30.7	31.1	30.1	30.8	30.6	31.2	31.7
	8H	29.6	30.2	30.1	30.7	31.1	30.2	30.8	30.7	31.2	31.7
	12H	29.6	30.1	30.1	30.6	31.1	30.2	30.8	30.7	31.2	31.7
12H	4H	29.3	30.1	29.8	30.5	30.9	29.7	30.5	30.1	30.9	31.3
	6H	29.6	30.2	30.1	30.6	31.1	30.1	30.7	30.6	31.2	31.6
	8H	29.6	30.2	30.1	30.6	31.1	30.2	30.7	30.7	31.2	31.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.3					

CIE Pub.117, 11527 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 8.5$ )

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-05-09

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:

## UTILIZATION FACTORS TABLE

Test:U:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:

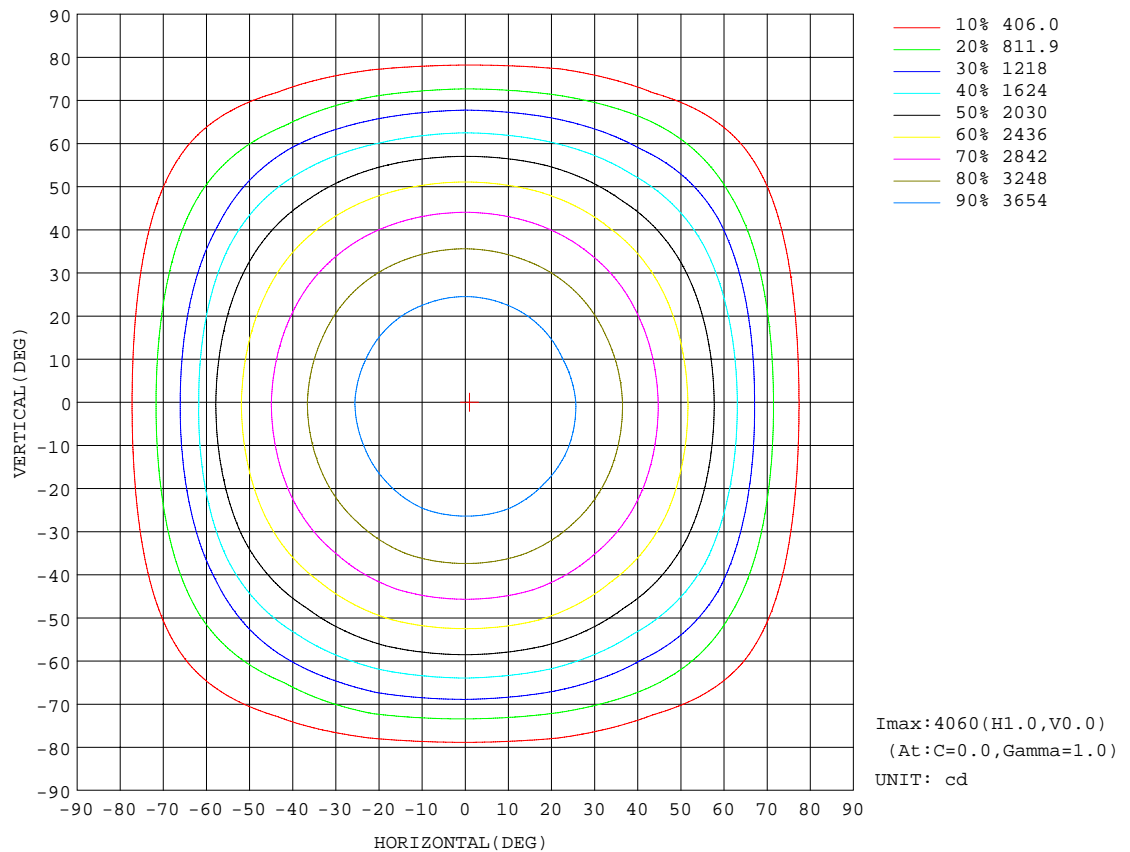
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	77	66	59	76	65	58	73	67	58	51
1.25	84	74	67	83	73	66	80	72	66	58
1.50	89	79	73	87	78	72	84	77	71	64
2.00	96	88	81	94	86	81	91	84	79	71
2.50	100	92	86	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-05-09

$\gamma$  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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:



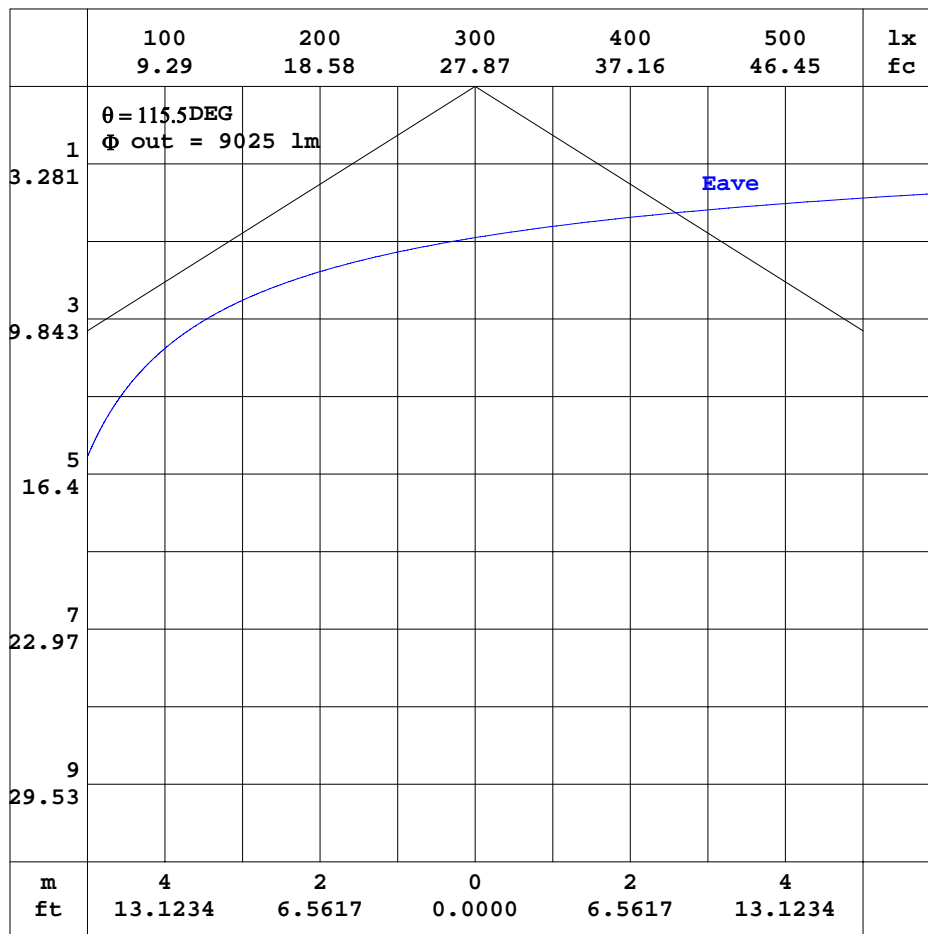
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-05-09

$\gamma$  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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:



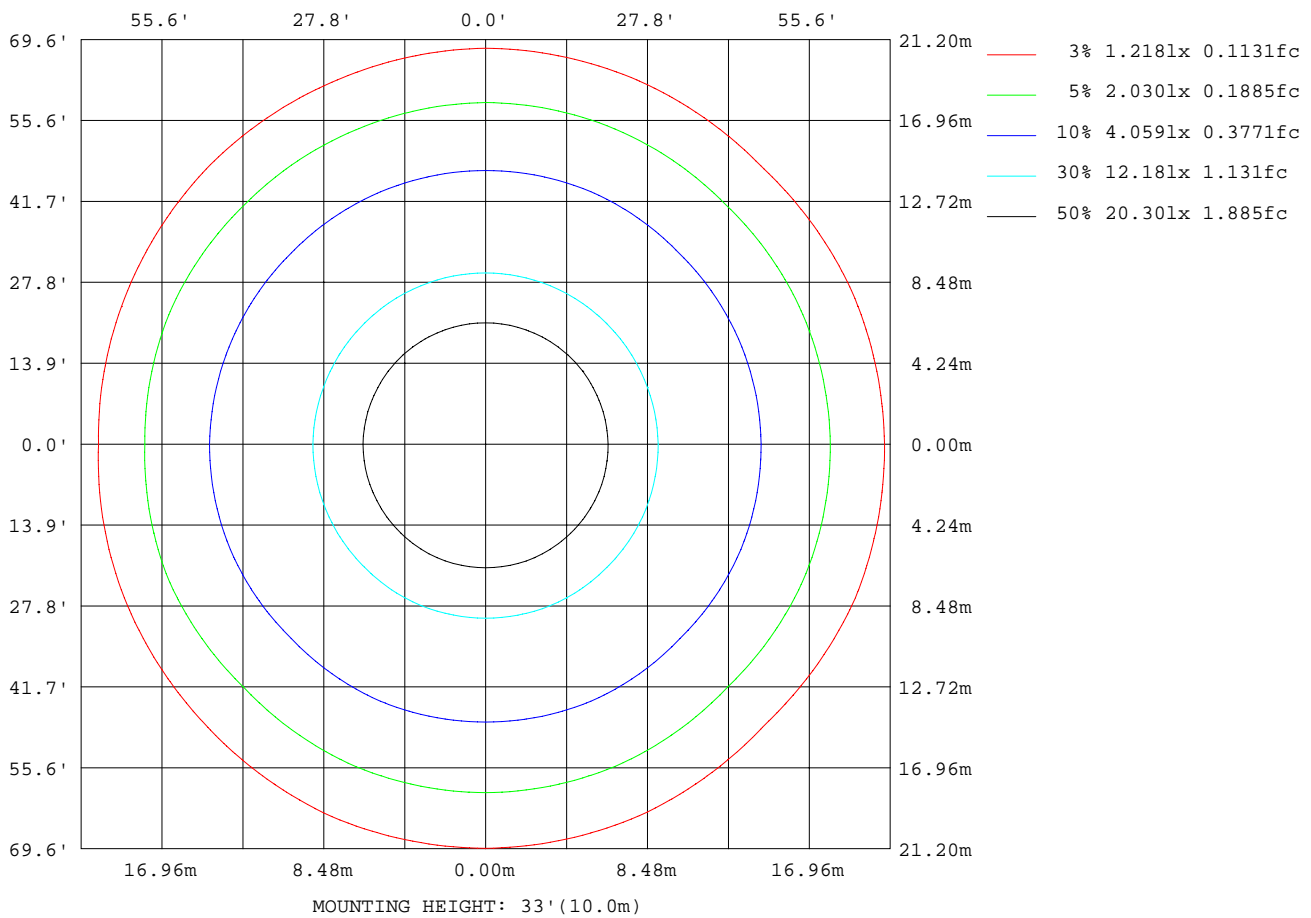
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2025-05-09

$\gamma$  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:

## ISOLUX DIAGRAM

Test:U:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2025-05-09

$\gamma$  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:229.56V I:0.4463A P:97.755W PF:0.9540 Freq:49.99Hz Lamp Flux:11527.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.705*0.102	Shielding Angle:

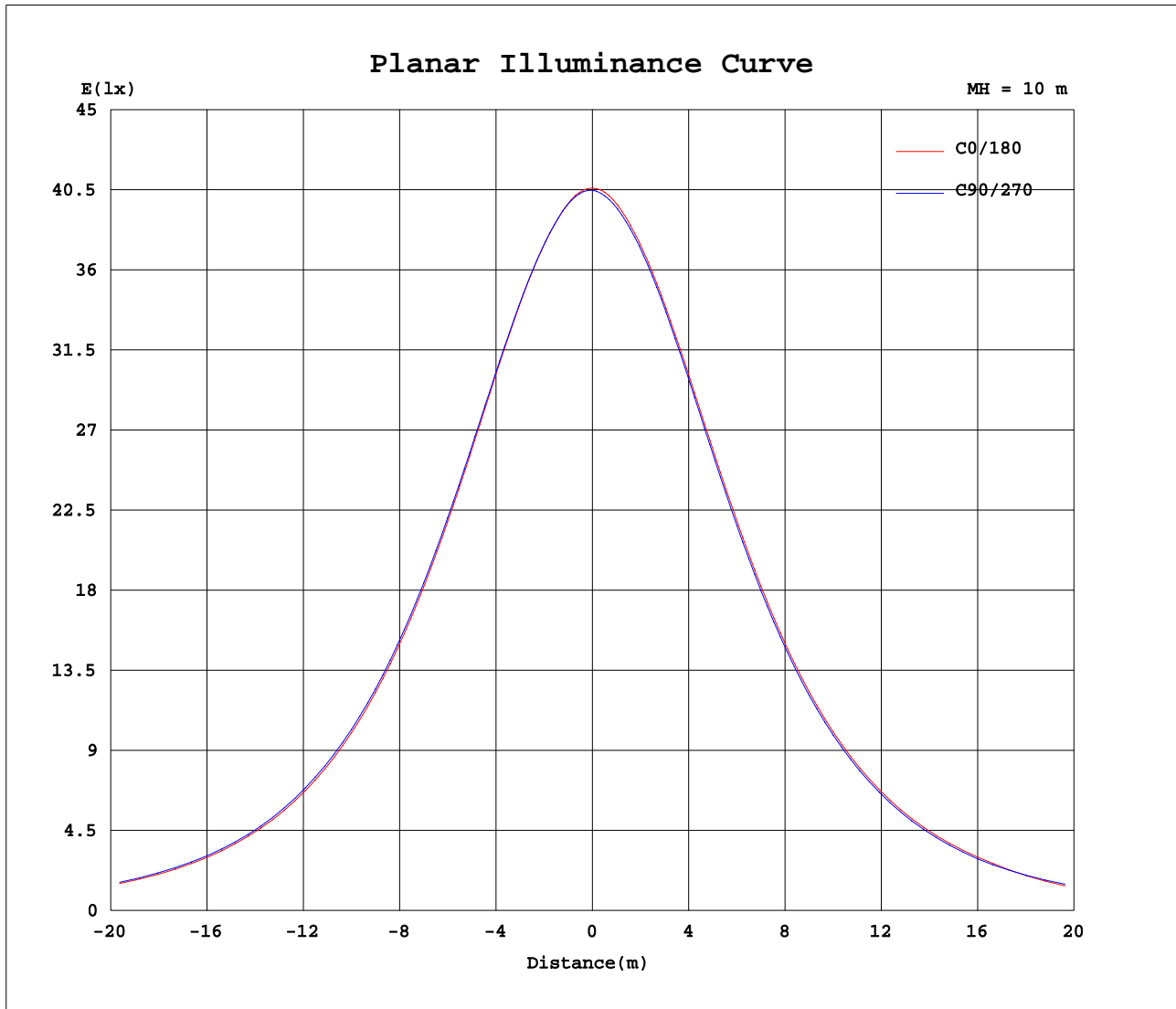
AvgL	cd/m2
L_0~180(65)av	45486
L_0~180(75)av	30995
L_0~180(85)av	6979
L_90~270(65)av	48913
L_90~270(75)av	35872
L_90~270(85)av	12655
L_45(65)av	46084
L_45(75)av	29910
L_45(85)av	8300

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-05-09

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: 2025-05-09

$\gamma$  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:

```