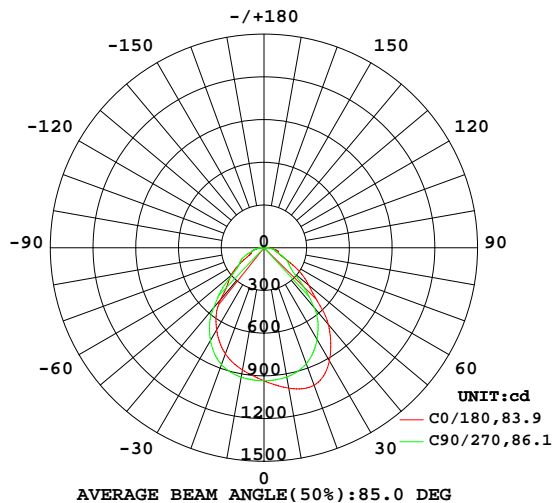


## LUMINAIRE PHOTOMETRIC TEST REPORT

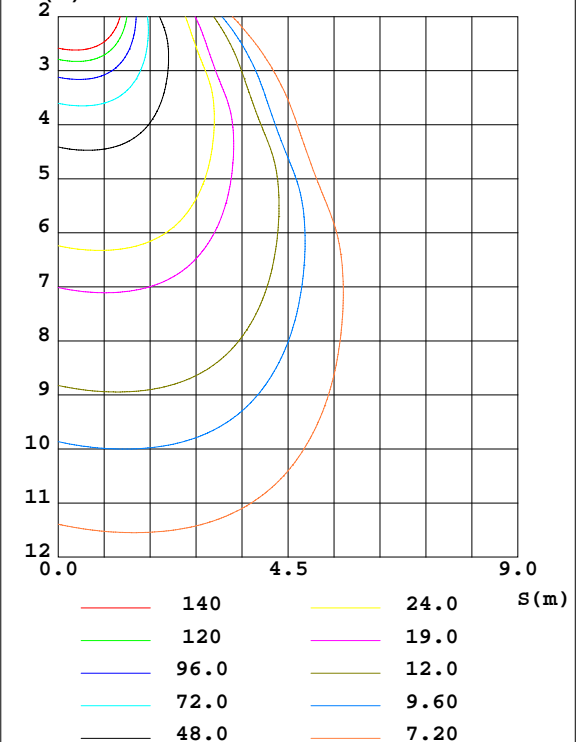
Test:U:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 50.40 lm/W			
MODEL		Imax(cd)	1031	S/MH(C0/180)	1.09
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1984.1	$\eta$ UP,DN(C0-180)	0.0,53.6
NOMINAL FLUX(lm)	1984.09	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,46.4
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

$\gamma$  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:

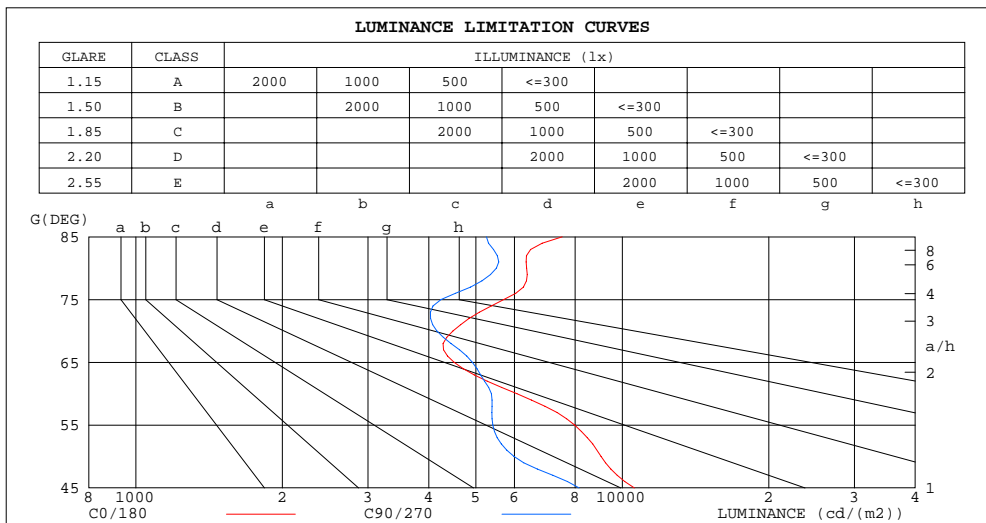
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1001	921.3	871.7	922.7					0- 10	88.95	88.95	4.48,4.48
20	1027	867.4	793.0	873.3					10- 20	258.8	347.7	17.5,17.5
30	918.7	745.3	665.4	752.1					20- 30	385.9	733.6	37,37
40	703.7	549.4	478.3	551.5					30- 40	424.4	1158	58.4,58.4
50	411.4	272.3	302.6	283.3					40- 50	334.5	1492	75.2,75.2
60	214.7	190.3	151.2	192.1					50- 60	222.3	1715	86.4,86.4
70	108.6	100.6	93.29	111.9					60- 70	137.9	1853	93.4,93.4
80	78.13	67.67	56.28	65.12					70- 80	90.95	1944	98,98
90	15.35	5.962	1.607	8.617					80- 90	40.53	1984	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: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

$\gamma$  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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	7519	5255
80	6359	5507
75	5705	4238
70	4487	4157
65	4511	4915
60	6069	5379
55	7980	5418
50	9045	5986
45	10582	8151

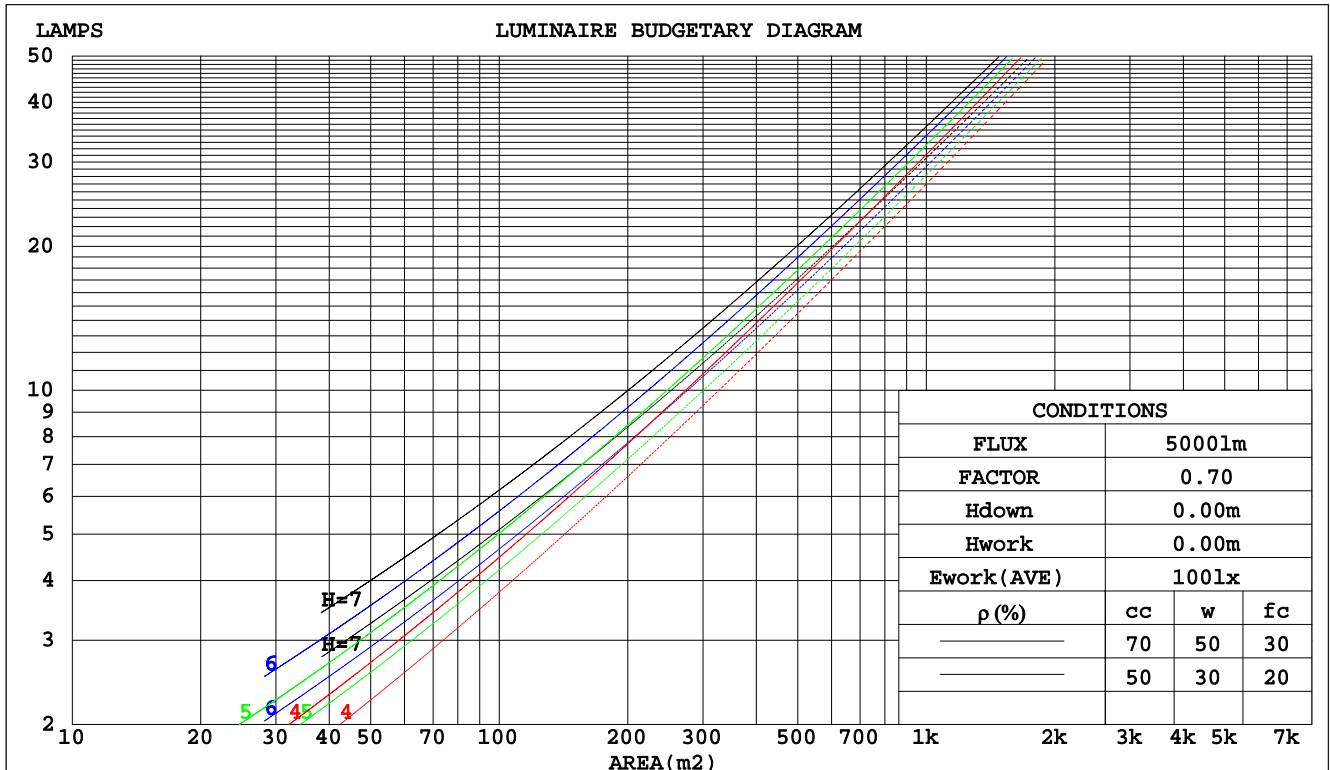
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

$\gamma$  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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	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	1.06	1.02	.98	1.03	.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.85	.82	.78	.83	.79	.76	.74
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65
4.0	.76	.68	.62	.74	.67	.61	.72	.66	.61	.70	.64	.60	.68	.63	.59	.57
5.0	.69	.60	.54	.68	.60	.54	.65	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.62	.54	.48	.62	.54	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.39	.52	.44	.39	.51	.44	.39	.49	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.38	.33	.45	.37	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.31



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 600*203*10			SERIAL No.:		
MFR.:			SUR.:0.58*0.122			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	.275	.157	.050	.268	.153	.049	.255	.146	.047	.243	.140	.045	.232	.134	.043	
2.0	.257	.141	.043	.251	.138	.043	.240	.133	.041	.230	.129	.040	.220	.124	.039	
3.0	.239	.127	.038	.234	.125	.038	.224	.121	.037	.215	.118	.036	.206	.114	.035	
4.0	.223	.116	.034	.218	.114	.034	.209	.111	.033	.201	.108	.033	.194	.105	.032	
5.0	.208	.106	.031	.204	.105	.030	.196	.102	.030	.189	.099	.030	.182	.097	.029	
6.0	.194	.097	.028	.191	.096	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027	
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.161	.084	.025	
8.0	.171	.084	.024	.168	.083	.023	.163	.081	.023	.158	.080	.023	.153	.078	.023	
9.0	.162	.078	.022	.159	.077	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021	
10.0	.153	.073	.020	.150	.073	.020	.146	.071	.020	.142	.070	.020	.138	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.047	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.062	.129	.087	.054	.089	.060	.038	.051	.035	.023	.017	.012	.007	
5.0	.143	.090	.051	.123	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.043	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 600*203*10			SERIAL No.:			
MFR.:					SUR.:0.58*0.122			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	19.4	20.8	19.7	21.0	21.2	18.4	19.8	18.7	20.0	20.2	
	3H	20.0	21.3	20.3	21.5	21.7	19.3	20.6	19.6	20.8	21.0
	4H	20.6	21.8	20.9	22.0	22.3	19.7	20.9	20.0	21.2	21.4
	6H	21.3	22.4	21.6	22.7	22.9	20.4	21.5	20.7	21.7	22.0
	8H	21.5	22.6	21.9	22.9	23.2	20.6	21.7	21.0	22.0	22.3
	12H	21.8	22.8	22.1	23.1	23.4	20.8	21.9	21.2	22.1	22.4
4H	2H	19.6	20.8	19.9	21.0	21.3	18.8	20.0	19.1	20.2	20.5
	3H	20.5	21.5	20.8	21.8	22.1	19.9	20.9	20.2	21.2	21.5
	4H	21.2	22.2	21.6	22.5	22.8	20.5	21.4	20.9	21.8	22.1
	6H	22.2	23.0	22.6	23.3	23.7	21.4	22.2	21.7	22.5	22.9
	8H	22.5	23.3	22.9	23.7	24.0	21.7	22.5	22.1	22.9	23.3
	12H	22.9	23.6	23.3	24.0	24.4	22.0	22.7	22.4	23.1	23.5
8H	4H	21.5	22.3	21.9	22.7	23.0	20.8	21.6	21.3	22.0	22.4
	6H	22.6	23.3	23.1	23.7	24.1	22.0	22.6	22.4	23.0	23.4
	8H	23.1	23.7	23.6	24.1	24.6	22.4	23.0	22.9	23.4	23.9
	12H	23.6	24.1	24.1	24.6	25.0	22.8	23.3	23.3	23.8	24.2
12H	4H	21.5	22.3	22.0	22.6	23.0	20.9	21.6	21.3	22.0	22.4
	6H	22.7	23.3	23.2	23.7	24.2	22.1	22.7	22.5	23.1	23.5
	8H	23.3	23.8	23.8	24.2	24.7	22.6	23.1	23.1	23.6	24.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.4 / - 0.4					
1.5H	+ 0.2 / - 0.4					+ 0.3 / - 0.5					
2.0H	+ 0.5 / - 0.5					+ 0.4 / - 0.3					

CIE Pub.117, 1984 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.4$ )

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2026-01-17

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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:

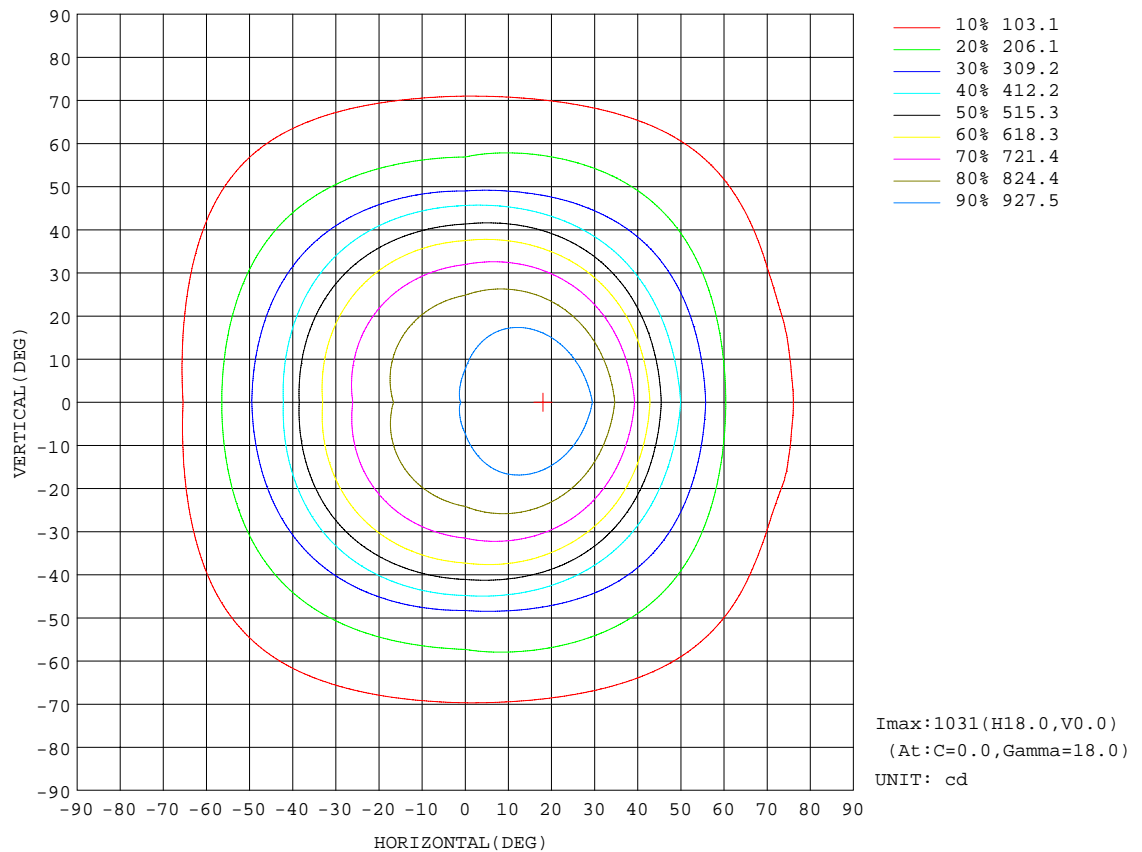
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	49	65	55	49	64	55	49	44
0.80	75	65	59	74	65	59	73	64	58	52
1.00	83	73	67	82	73	67	80	74	66	60
1.25	89	80	74	88	80	74	85	78	73	67
1.50	93	85	79	92	84	79	89	83	78	71
2.00	99	92	86	97	91	86	94	89	84	77
2.50	102	96	90	100	94	90	97	92	88	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
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:25.3DEG  
Operators:  
Test Date:2026-01-17

$\gamma$  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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:



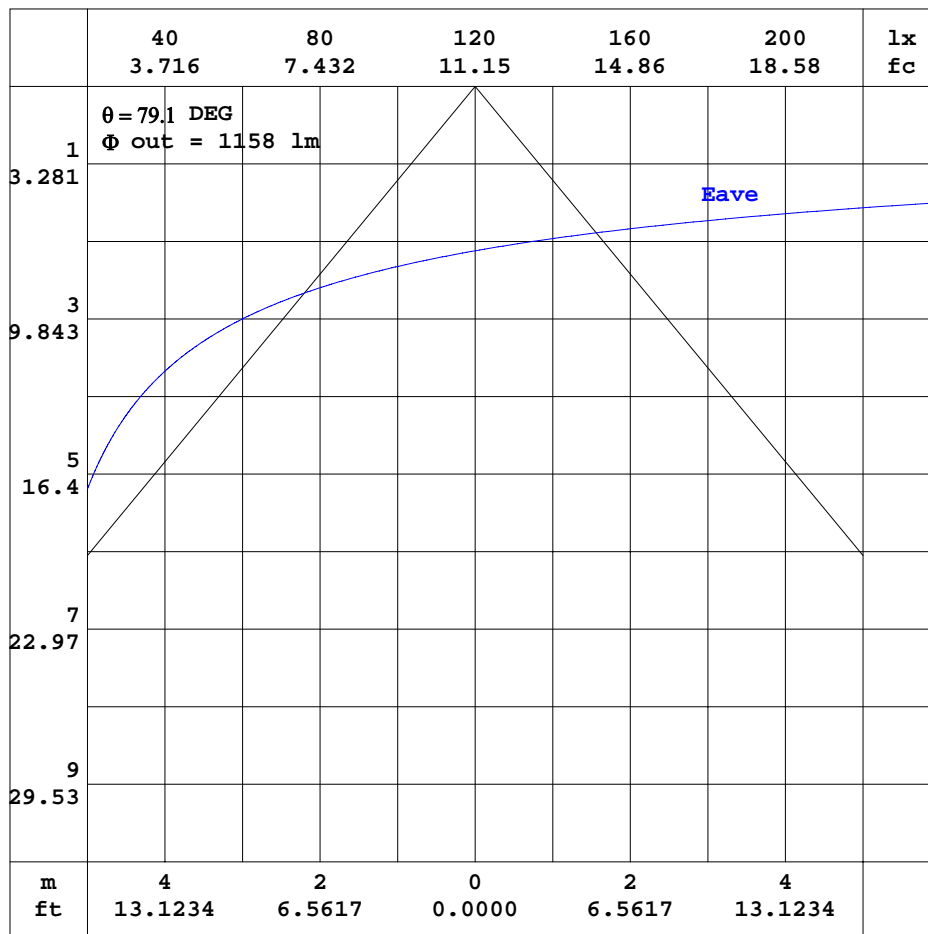
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

$\gamma$  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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:



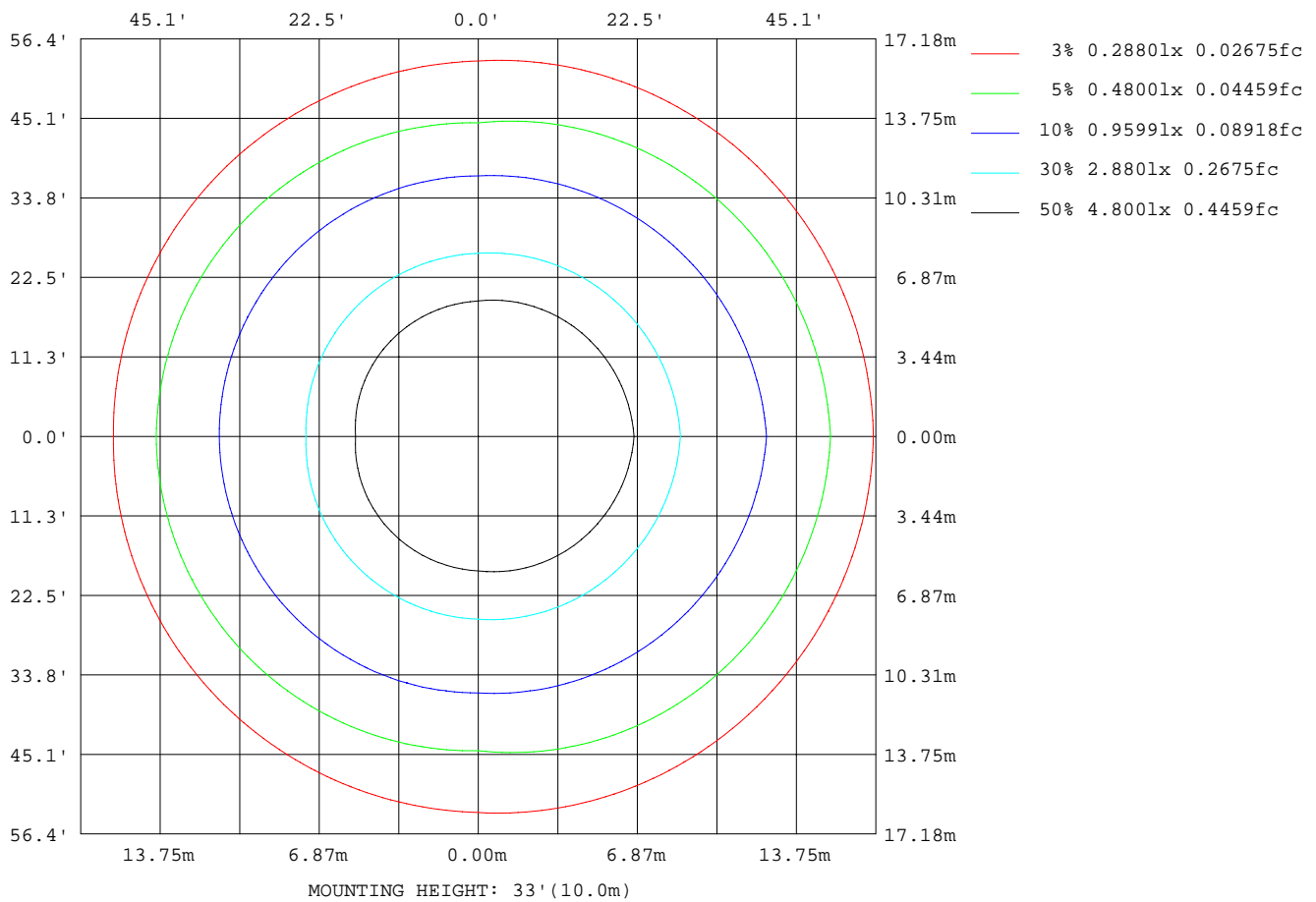
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2026-01-17

$\gamma$  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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

$\gamma$  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:229.79V I:0.1763A P:39.366W PF:0.9716 Freq:49.99Hz Lamp Flux:1984.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*203*10	SERIAL No.:
MFR.:	SUR.:0.58*0.122	Shielding Angle:

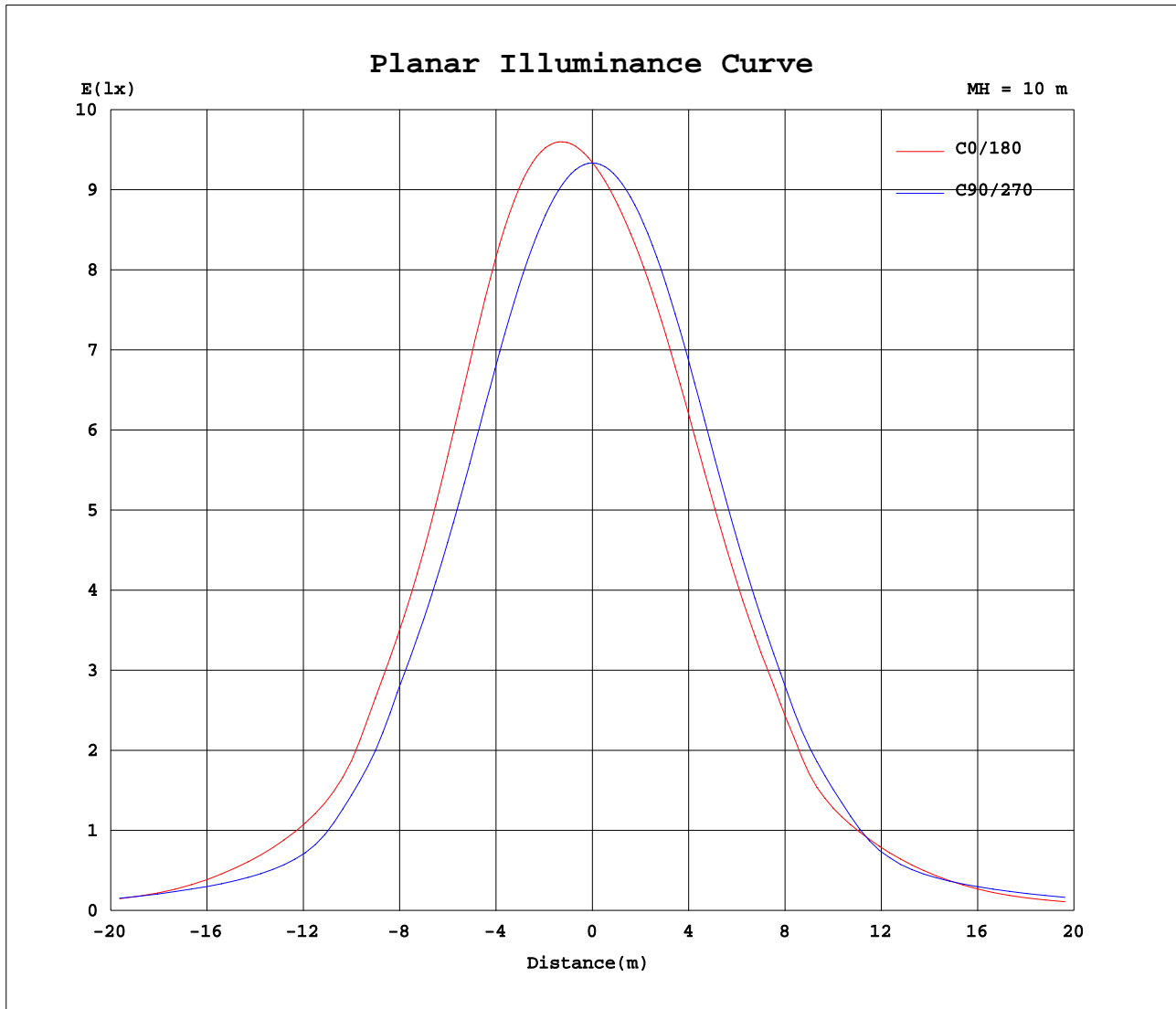
AvgL	cd/m2
L_0~180(65)av	4008
L_0~180(75)av	5191
L_0~180(85)av	6311
L_90~270(65)av	5130
L_90~270(75)av	4220
L_90~270(85)av	5706
L_45(65)av	4678
L_45(75)av	4552
L_45(85)av	5857

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2026-01-17

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: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2026-01-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
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Humidity: 65.0%  
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