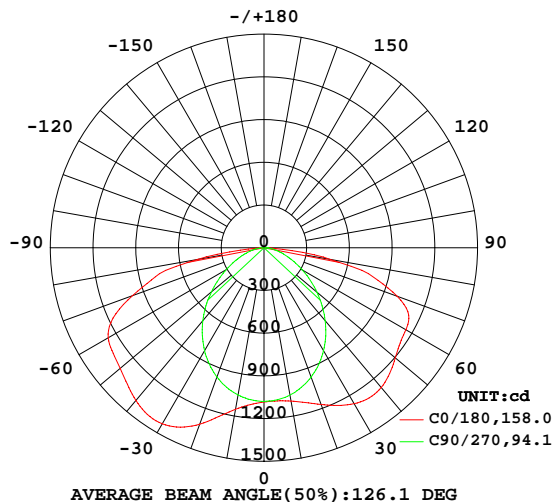


LUMINAIRE PHOTOMETRIC TEST REPORT

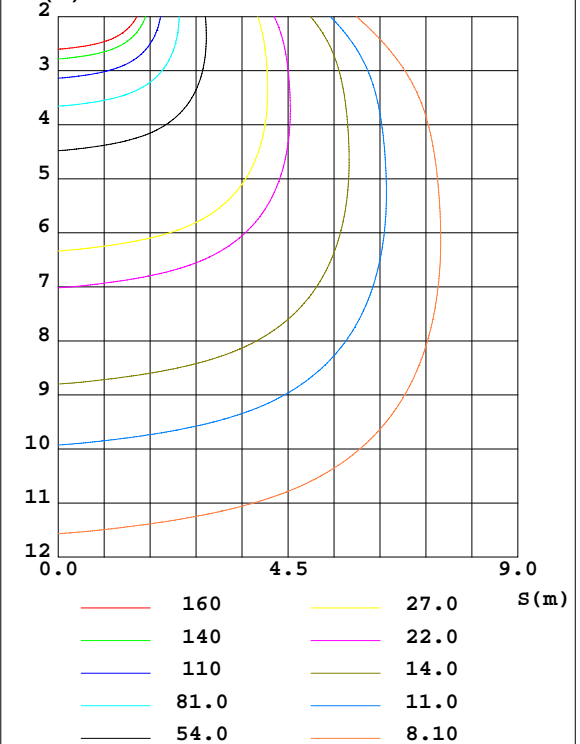
Test:U:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.25 lm/W			
MODEL		Imax(cd)	1432	S/MH(C0/180)	1.86
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.16
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	4693.5	η UP,DN(C0-180)	0.0,49.9
NOMINAL FLUX(lm)	4693.49	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.0	η 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:2025-09-29

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:

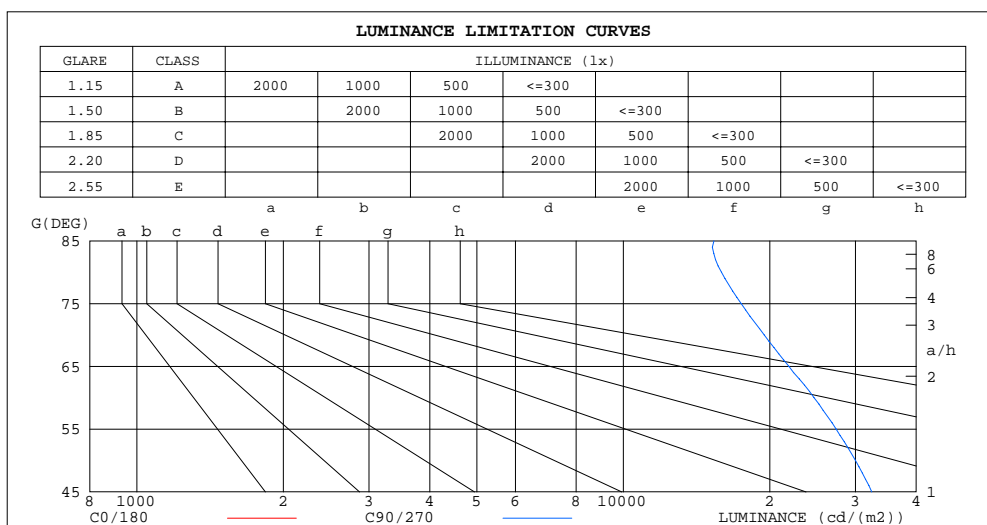
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1094	1067	1050	1101	1152	1102	1050	1065	0- 10	103.3	103.3	2.2,2.2
20	1171	1063	967.6	1143	1318	1141	966.5	1060	10- 20	310.1	413.3	8.81,8.81
30	1265	1065	835.9	1201	1428	1193	834.2	1067	20- 30	513.2	926.5	19.7,19.7
40	1281	1060	669.0	1213	1400	1204	667.8	1064	30- 40	683.1	1610	34.3,34.3
50	1204	1013	486.0	1141	1318	1134	481.4	1017	40- 50	781.0	2391	50.9,50.9
60	1151	897.1	310.7	996.0	1263	987.6	304.7	896.9	50- 60	798.7	3189	68,68
70	994.7	730.3	167.9	824.5	981.5	810.9	163.8	733.3	60- 70	746.4	3936	83.9,83.9
80	472.9	541.1	69.64	569.4	470.5	555.2	67.61	531.9	70- 80	565.6	4501	95.9,95.9
90	9.141	18.61	7.809	40.08	11.40	35.99	7.088	14.15	80- 90	192.2	4693	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:2025-09-29

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:

LUMINANCE LIMITATION CURVES

Test:U:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	60352	15353
80	108059	15914
75	121944	17468
70	115409	19481
65	105294	21891
60	91334	24662
55	80760	27384
50	74323	30006
45	70040	32422

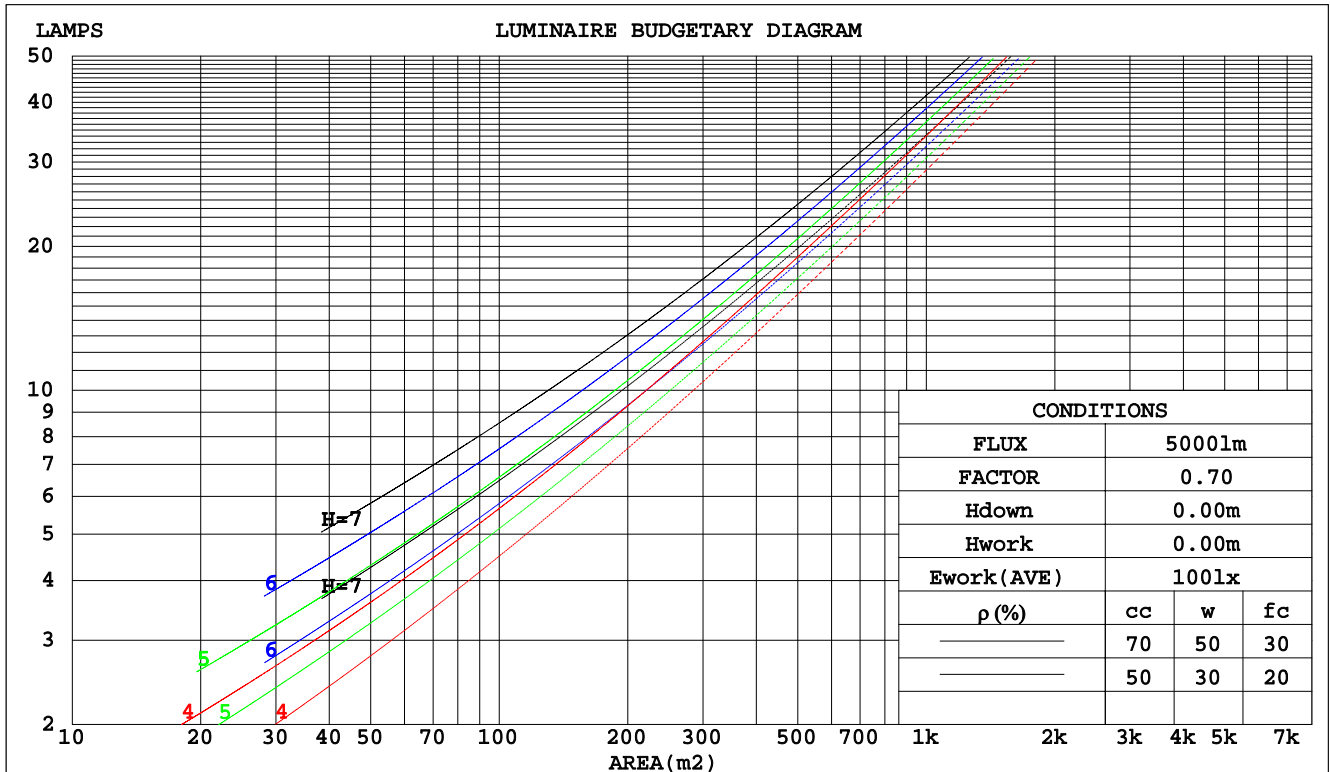
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 1650*48*77			SERIAL No.:		
MFR.:			SUR.:1.2*0.021			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	.372	.211	.067	.364	.208	.066	.351	.201	.064	.338	.195	.063	.327	.189	.061	
2.0	.338	.185	.057	.332	.183	.056	.319	.178	.055	.308	.173	.054	.298	.169	.053	
3.0	.306	.163	.049	.300	.161	.048	.289	.157	.048	.279	.153	.047	.270	.149	.046	
4.0	.277	.144	.042	.272	.142	.042	.263	.139	.042	.254	.136	.041	.245	.133	.041	
5.0	.253	.129	.037	.248	.127	.037	.240	.125	.037	.232	.122	.036	.224	.120	.036	
6.0	.232	.116	.033	.228	.115	.033	.220	.113	.033	.213	.111	.033	.207	.109	.032	
7.0	.214	.106	.030	.210	.105	.030	.204	.103	.030	.197	.101	.029	.191	.099	.029	
8.0	.198	.097	.027	.195	.096	.027	.189	.095	.027	.184	.093	.027	.178	.091	.027	
9.0	.185	.089	.025	.182	.089	.025	.177	.087	.025	.171	.086	.025	.167	.085	.024	
10.0	.173	.083	.023	.170	.082	.023	.165	.081	.023	.161	.080	.023	.157	.079	.023	

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	.185	.156	.129	.158	.134	.111	.108	.092	.077	.062	.053	.045	.020	.017	.014	
2.0	.178	.132	.092	.153	.113	.080	.105	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.171	.115	.069	.147	.099	.060	.101	.069	.042	.058	.040	.025	.019	.013	.008	
4.0	.164	.102	.054	.141	.088	.047	.097	.061	.033	.056	.036	.020	.018	.012	.006	
5.0	.156	.091	.044	.134	.079	.038	.092	.055	.027	.053	.032	.016	.017	.011	.005	
6.0	.148	.083	.037	.128	.072	.032	.088	.050	.022	.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	.116	.061	.024	.080	.043	.017	.047	.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:2025-09-29

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:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1650*48*77			SERIAL No.:			
MFR.:					SUR.:1.2*0.021			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	29.2	30.9	29.5	31.1	31.3	24.2	25.9	24.5	26.1	26.3
	3H	32.1	33.7	32.4	33.9	34.2	25.1	26.7	25.4	26.9	27.2
	4H	33.4	34.9	33.7	35.1	35.4	25.5	27.0	25.8	27.2	27.5
	6H	34.3	35.7	34.7	36.0	36.3	25.7	27.1	26.0	27.4	27.7
	8H	34.6	35.9	34.9	36.2	36.5	25.8	27.1	26.1	27.4	27.7
	12H	34.6	36.0	35.0	36.3	36.6	25.8	27.1	26.2	27.4	27.7
4H	2H	29.8	31.3	30.1	31.5	31.8	26.5	28.0	26.8	28.2	28.5
	3H	33.0	34.3	33.3	34.6	34.9	27.7	29.1	28.1	29.4	29.7
	4H	34.5	35.7	34.8	36.0	36.3	28.2	29.4	28.6	29.7	30.1
	6H	35.6	36.7	36.0	37.0	37.4	28.4	29.5	28.8	29.9	30.3
	8H	35.9	36.9	36.3	37.3	37.7	28.5	29.5	28.9	29.9	30.3
	12H	36.0	37.0	36.4	37.3	37.8	28.6	29.5	29.0	29.9	30.3
8H	4H	34.8	35.8	35.2	36.2	36.6	30.1	31.2	30.6	31.5	31.9
	6H	36.1	37.0	36.6	37.4	37.8	30.8	31.7	31.2	32.1	32.5
	8H	36.6	37.4	37.1	37.8	38.2	31.0	31.7	31.4	32.2	32.6
	12H	36.8	37.5	37.3	37.9	38.4	31.0	31.7	31.5	32.2	32.6
12H	4H	34.8	35.7	35.2	36.1	36.5	30.5	31.5	31.0	31.9	32.3
	6H	36.3	37.0	36.7	37.4	37.9	31.6	32.3	32.0	32.8	33.2
	8H	36.8	37.4	37.3	37.9	38.4	31.9	32.6	32.4	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 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.5					

CIE Pub.117, 4693 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.4$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-09-29

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:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:

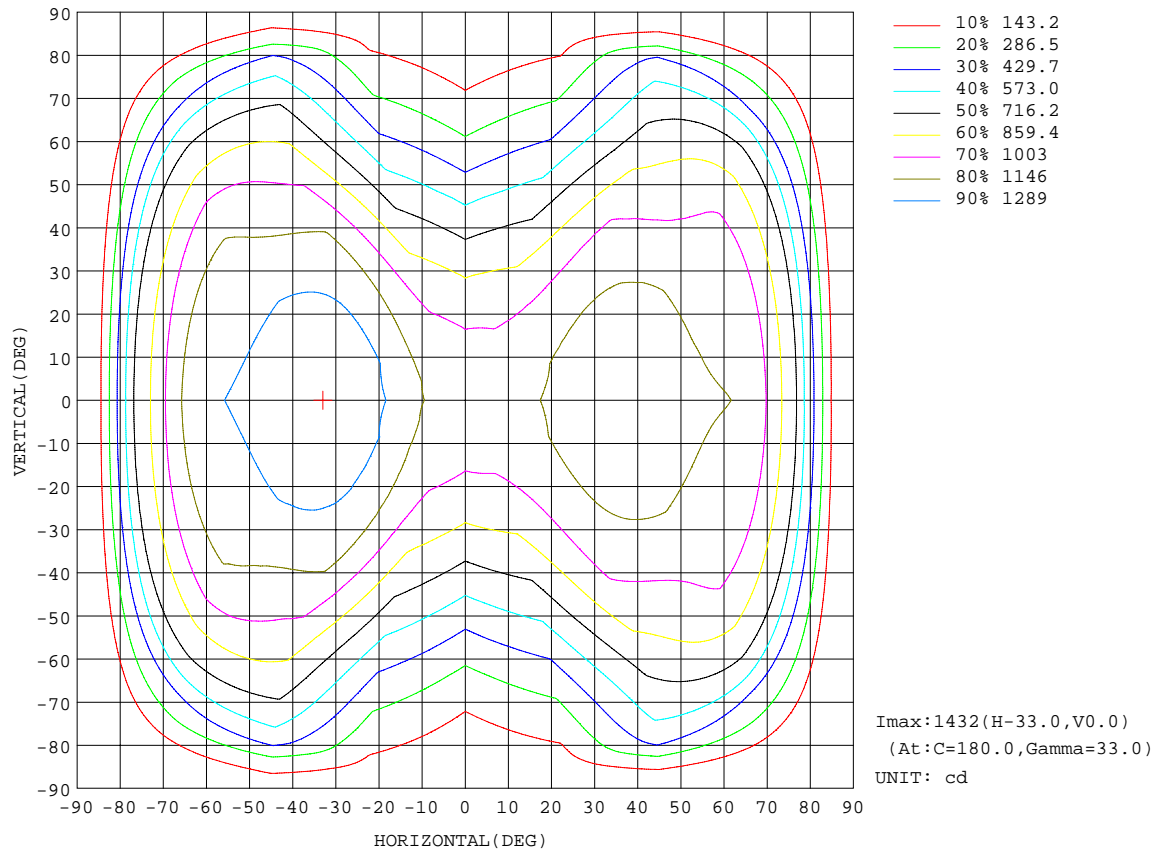
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	39	32	51	39	32	50	39	32	25
0.80	62	49	41	61	48	40	59	48	40	32
1.00	70	57	49	69	57	49	66	59	48	40
1.25	77	65	57	76	65	57	73	63	56	48
1.50	83	71	63	81	70	63	78	68	61	53
2.00	90	80	73	88	79	72	84	77	70	61
2.50	95	86	78	93	84	78	88	81	76	67
3.00	99	90	84	96	89	83	92	86	81	71
4.00	103	97	91	101	95	90	96	91	87	77
5.00	106	100	96	104	98	94	99	95	91	81
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:2025-09-29

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:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:

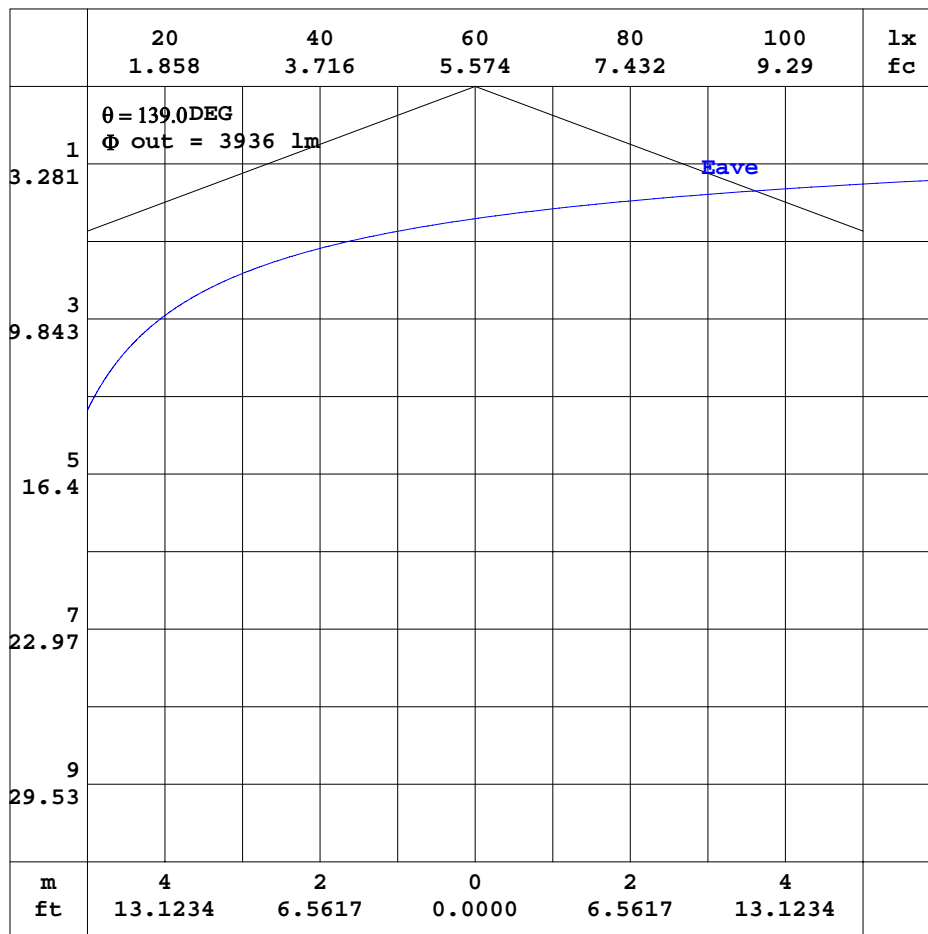


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:

AAI CURVES

Test:U:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:



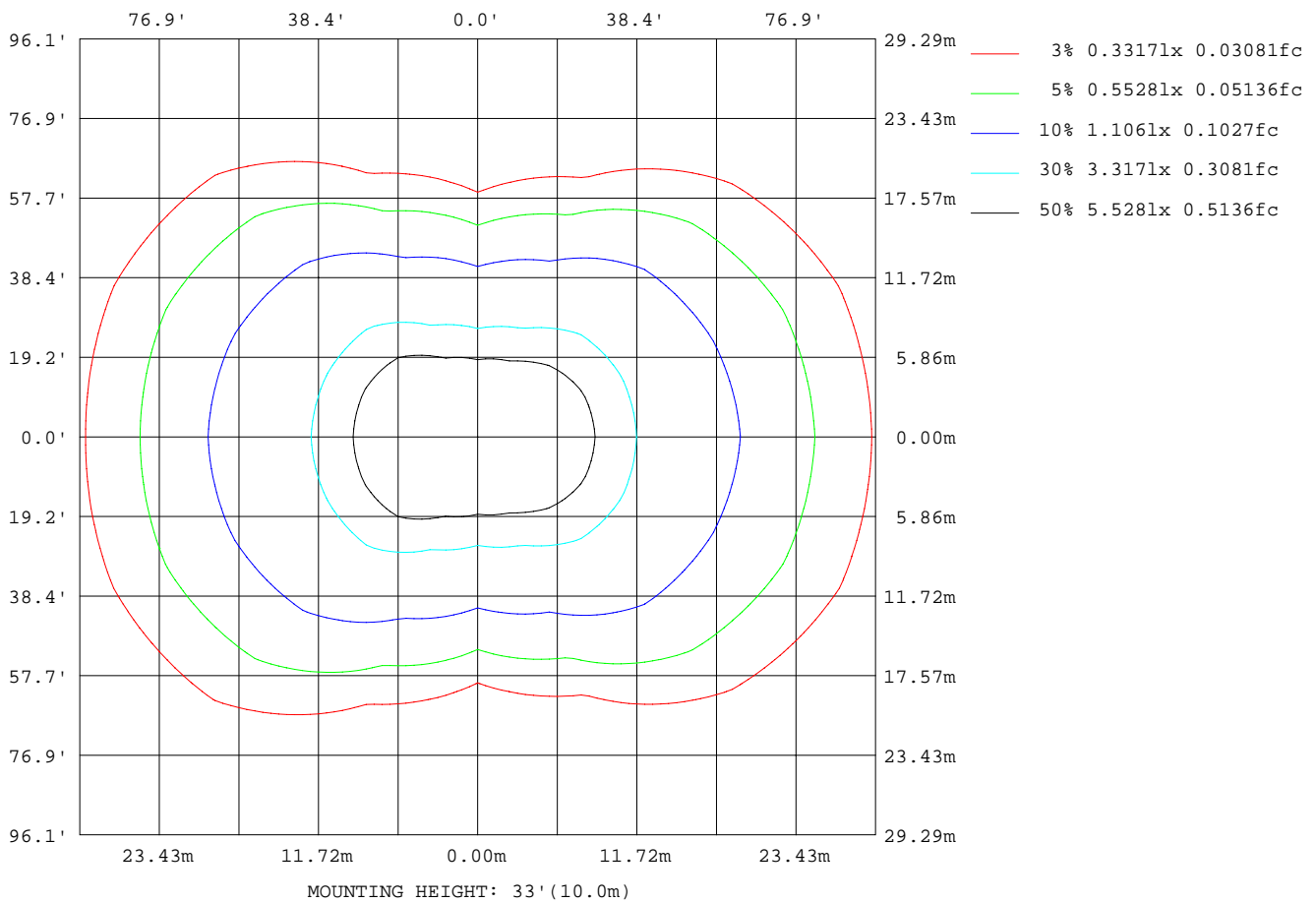
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-09-29

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:229.64V I:0.2531A P:57.769W PF:0.9938 Freq:49.99Hz Lamp Flux:4693.49x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1650*48*77	SERIAL No.:
MFR.:	SUR.:1.2*0.021	Shielding Angle:

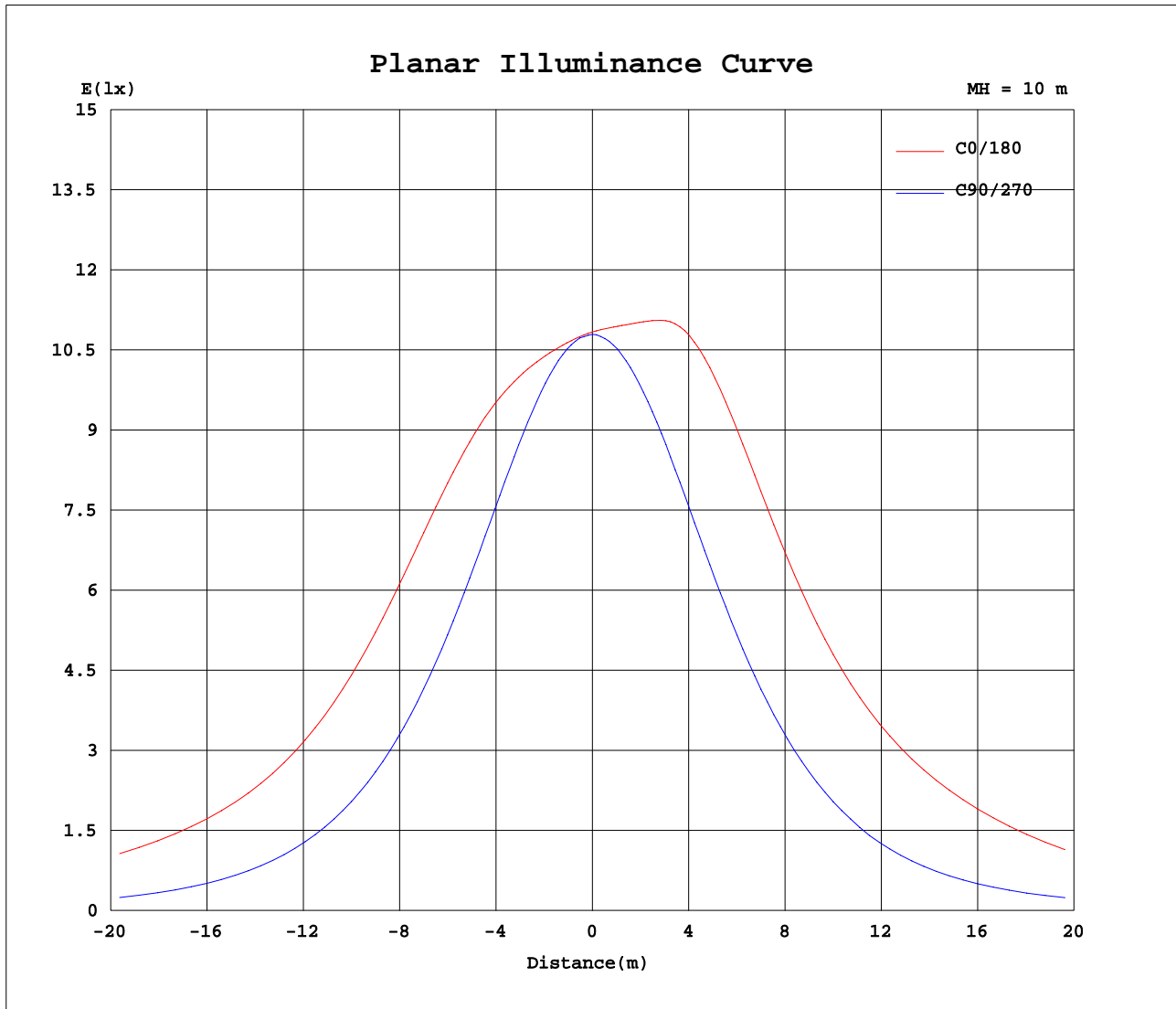
AvgL	cd/m2
L_0~180(65)av	107555
L_0~180(75)av	121515
L_0~180(85)av	55379
L_90~270(65)av	21665
L_90~270(75)av	17239
L_90~270(85)av	15054
L_45(65)av	80881
L_45(75)av	104125
L_45(85)av	119979

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-09-29

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: 2025-09-29

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:

```

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:

```