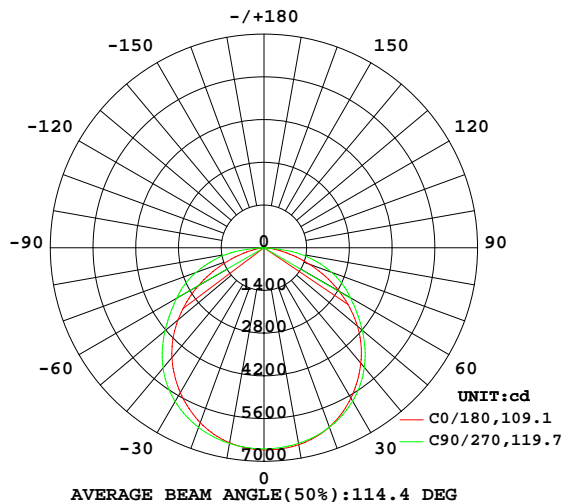


LUMINAIRE PHOTOMETRIC TEST REPORT

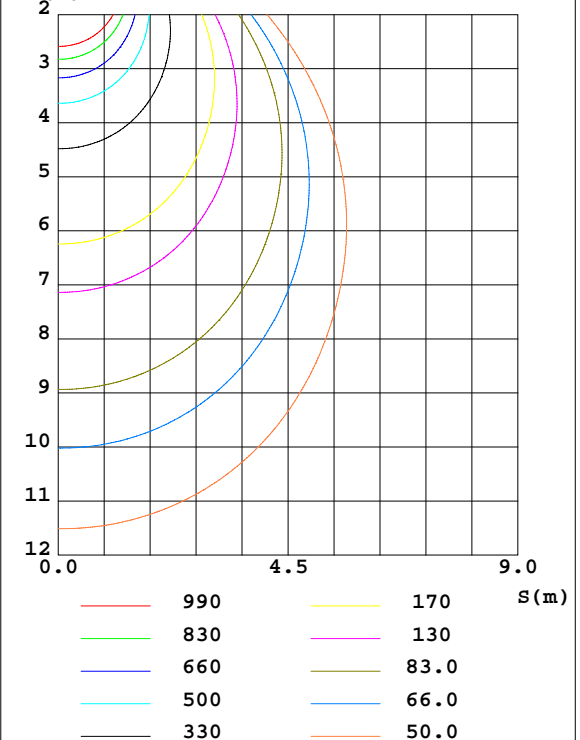
Test:U:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.01 lm/W			
MODEL		Imax(cd)	6626	S/MH(C0/180)	1.24
NOMINAL POWER(W)	136	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	19176	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	19176.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
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:2025-08-07

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:

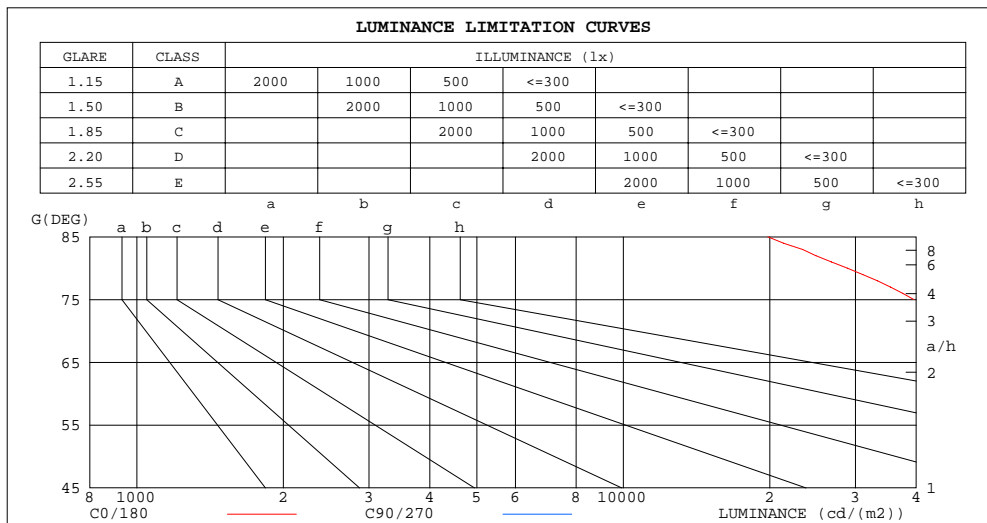
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	6553	6535	6511	6472	6490	6495	6514	6518	0- 10	625.6	625.6	3.26,3.26
20	6256	6277	6261	6150	6102	6182	6267	6259	10- 20	1804	2430	12.7,12.7
30	5694	5796	5809	5591	5486	5645	5820	5773	20- 30	2758	5188	27.1,27.1
40	4935	5052	5116	4799	4694	4859	5145	5031	30- 40	3349	8537	44.5,44.5
50	3999	4089	4203	3822	3676	3882	4233	4080	40- 50	3471	12008	62.6,62.6
60	2834	2982	3268	2678	2480	2759	3302	2976	50- 60	3089	15097	78.7,78.7
70	1585	1905	2354	1655	1230	1739	2379	1908	60- 70	2346	17444	91,91
80	481.5	897.3	1209	684.5	279.2	728.9	1245	893.8	70- 80	1380	18824	98.2,98.2
90	45.07	39.12	18.57	12.46	16.63	18.82	25.76	44.84	80- 90	352.3	19176	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:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	19825	33127
80	28881	72551
75	39563	72511
70	48263	71705
65	54787	70078
60	59052	68085
55	62344	67533
50	64812	68109
45	66278	68970

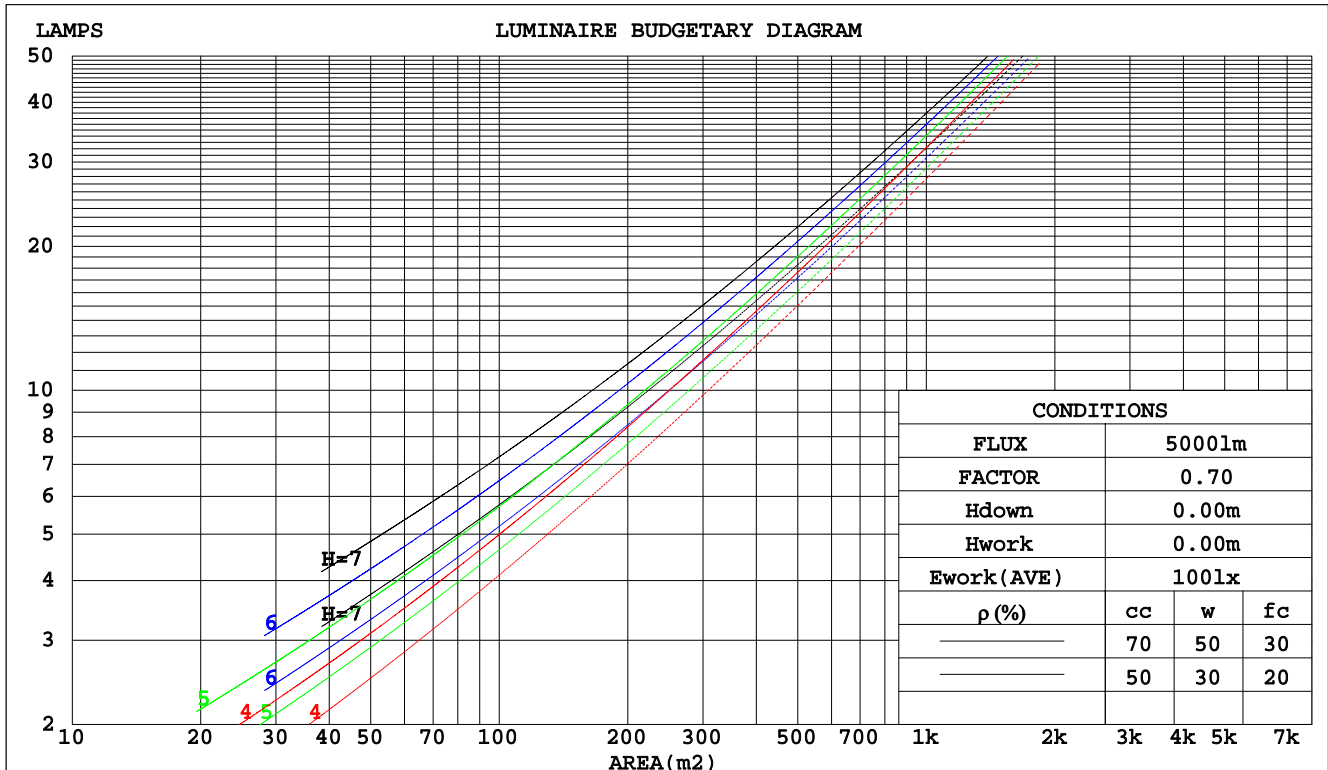
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.30
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 1282*160*28			SERIAL No.:		
MFR.:			SUR.:0.8*0.12			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	.310	.176	.056	.303	.173	.055	.290	.166	.053	.278	.160	.051	.266	.154	.050	
2.0	.292	.160	.049	.286	.158	.049	.274	.152	.047	.263	.148	.046	.253	.143	.045	
3.0	.270	.144	.043	.265	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.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:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm											
NAME:			TYPE:			WEIGHT:					
SPEC.:			DIM.: 1282*160*28			SERIAL No.:					
MFR.:			SUR.:0.8*0.12			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	27.2	28.8	27.5	29.0	29.2	27.8	29.3	28.0	29.5	29.7
	3H	28.5	29.9	28.8	30.2	30.4	29.7	31.1	30.0	31.3	31.6
	4H	29.0	30.3	29.3	30.5	30.8	30.5	31.9	30.8	32.1	32.4
	6H	29.2	30.4	29.5	30.7	31.0	31.2	32.5	31.6	32.8	33.1
	8H	29.2	30.4	29.5	30.7	31.0	31.5	32.7	31.8	33.0	33.3
	12H	29.2	30.4	29.6	30.7	31.0	31.6	32.7	31.9	33.0	33.3
4H	2H	27.9	29.2	28.2	29.5	29.7	28.3	29.7	28.6	29.9	30.2
	3H	29.4	30.5	29.7	30.8	31.1	30.4	31.6	30.8	31.9	32.2
	4H	29.9	31.0	30.3	31.3	31.6	31.4	32.5	31.8	32.8	33.1
	6H	30.3	31.2	30.7	31.6	31.9	32.3	33.3	32.7	33.6	34.0
	8H	30.3	31.2	30.8	31.6	32.0	32.6	33.5	33.0	33.9	34.3
	12H	30.4	31.2	30.8	31.6	32.0	32.7	33.6	33.2	33.9	34.3
8H	4H	30.3	31.2	30.7	31.6	32.0	31.6	32.5	32.1	32.9	33.3
	6H	30.8	31.6	31.3	32.0	32.4	32.7	33.4	33.1	33.8	34.3
	8H	31.0	31.6	31.4	32.1	32.5	33.1	33.8	33.6	34.2	34.7
	12H	31.1	31.7	31.6	32.1	32.6	33.3	33.9	33.8	34.3	34.8
12H	4H	30.4	31.2	30.8	31.6	32.0	31.6	32.5	32.1	32.8	33.2
	6H	31.0	31.6	31.4	32.0	32.5	32.7	33.4	33.2	33.8	34.3
	8H	31.2	31.7	31.6	32.2	32.7	33.2	33.8	33.7	34.2	34.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.2					

CIE Pub.117, 19176 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.3$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

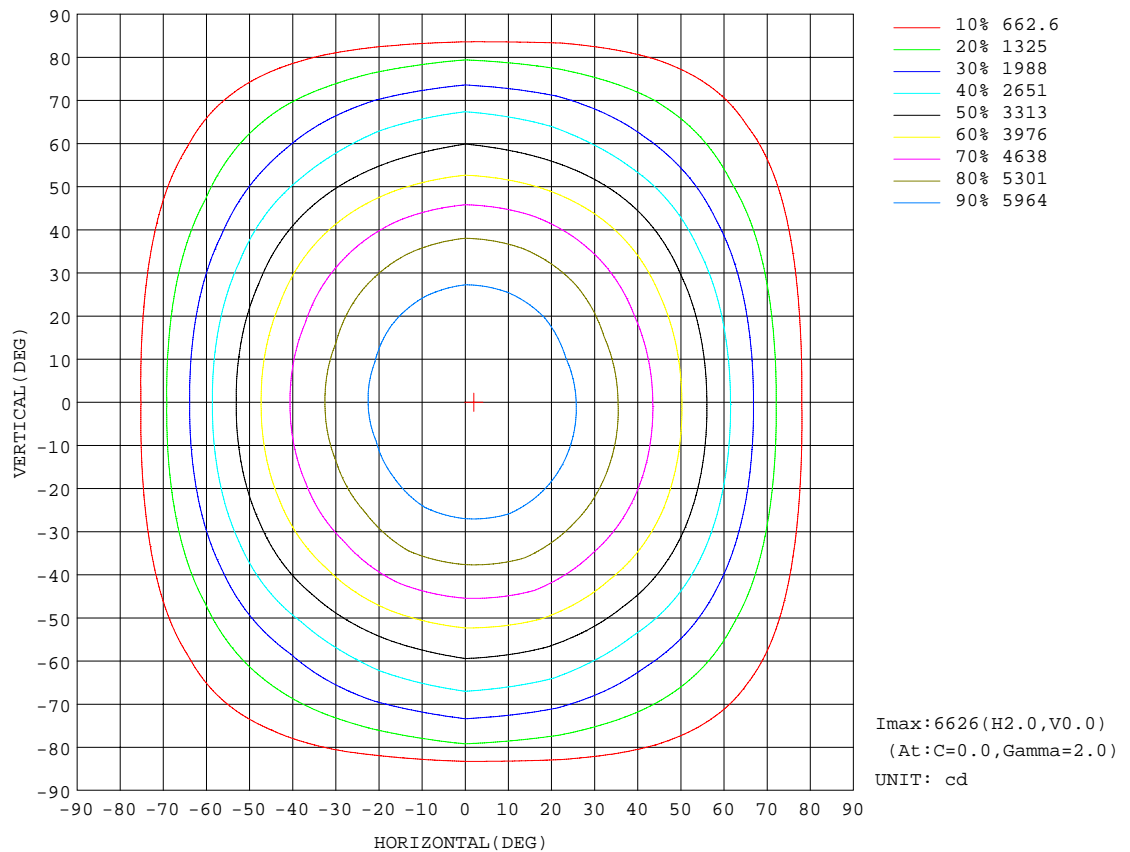
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	68	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	50
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

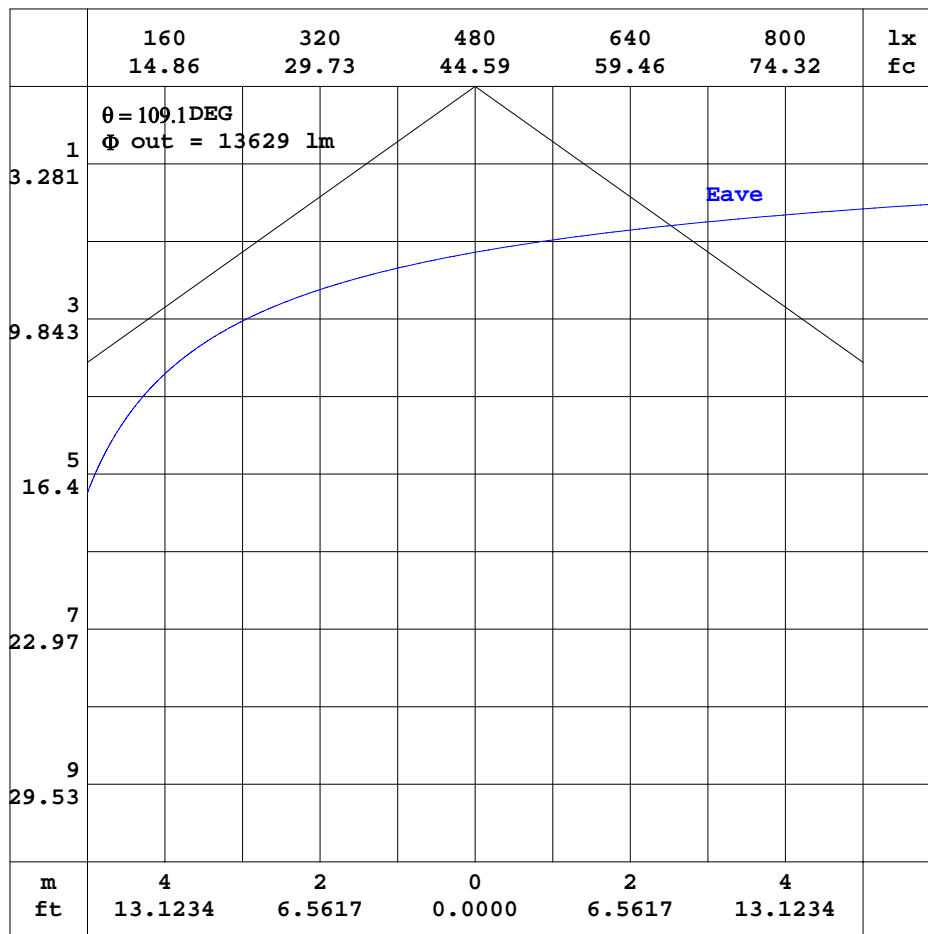


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



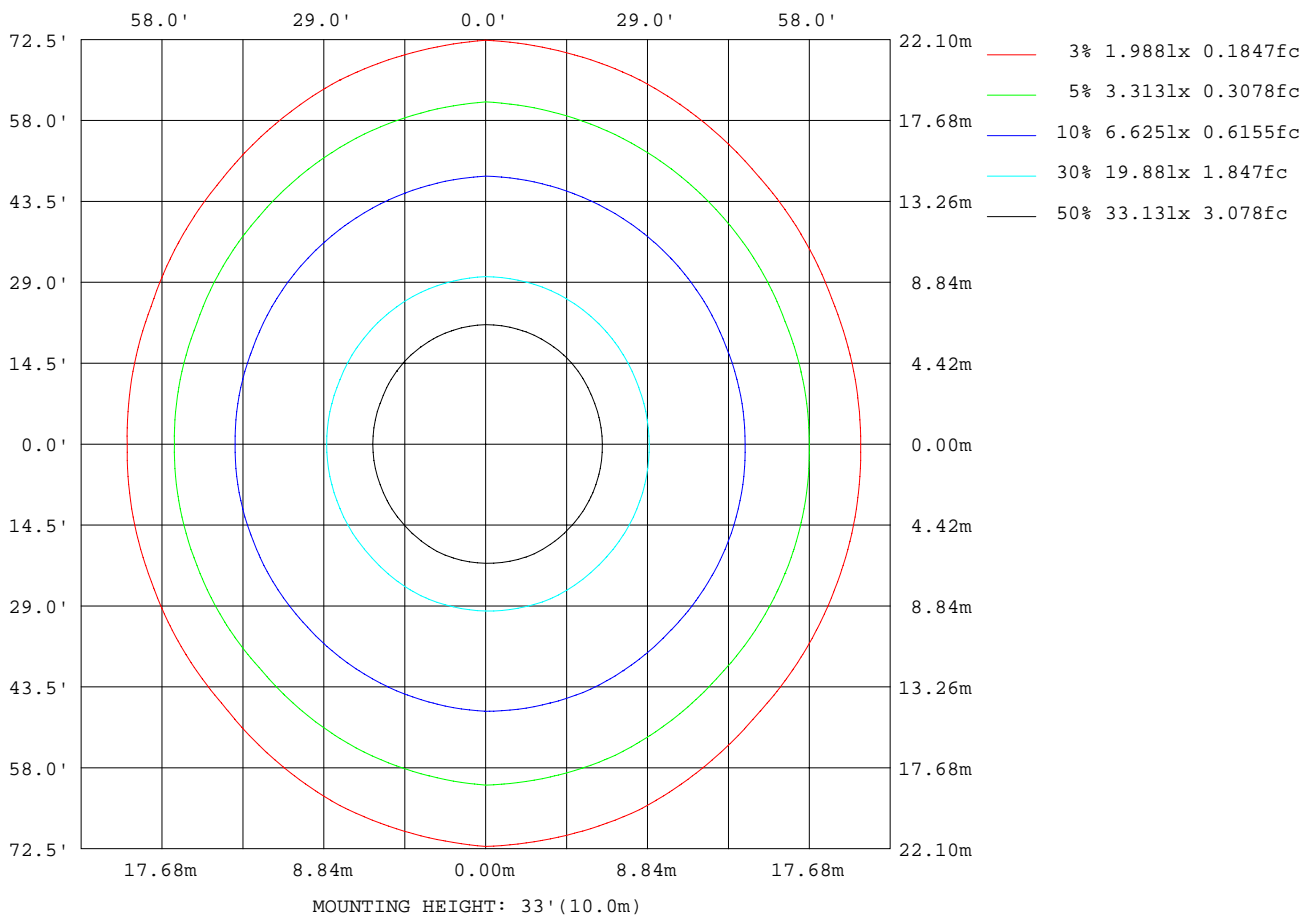
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-07

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:229.51V I:0.6821A P:153.40W PF:0.9800 Freq:49.99Hz Lamp Flux:19176.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

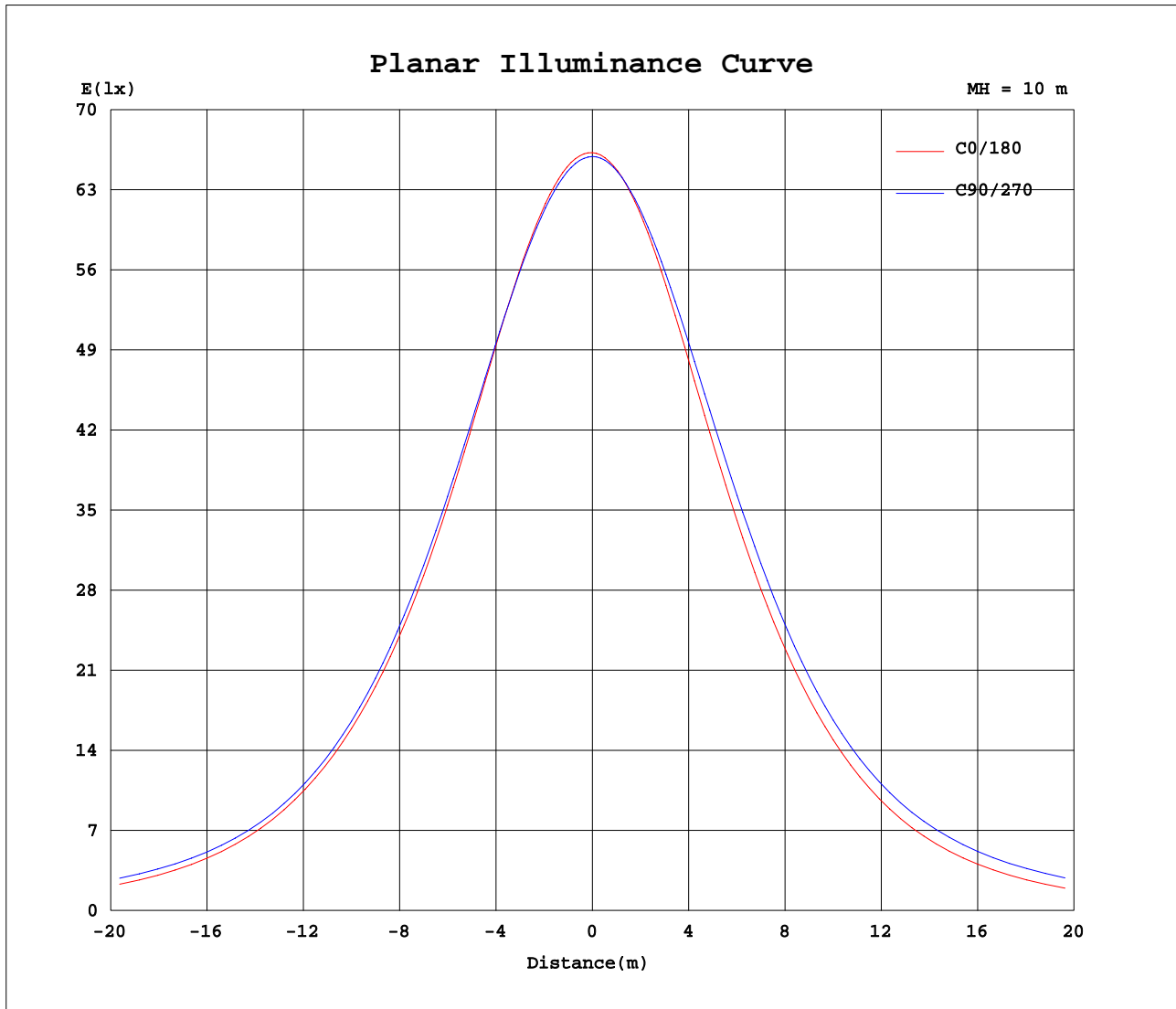
AvgL	cd/m2
L_0~180(65)av	50142
L_0~180(75)av	33466
L_0~180(85)av	14458
L_90~270(65)av	70521
L_90~270(75)av	72833
L_90~270(85)av	33964
L_45(65)av	56586
L_45(75)av	52443
L_45(85)av	39437

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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: 2025-08-07

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:

```