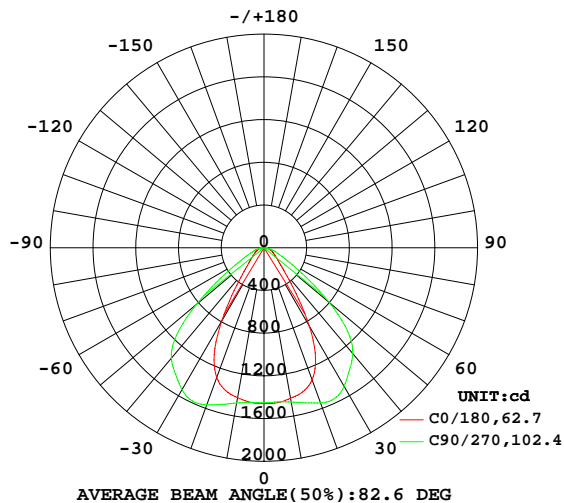


LUMINAIRE PHOTOMETRIC TEST REPORT

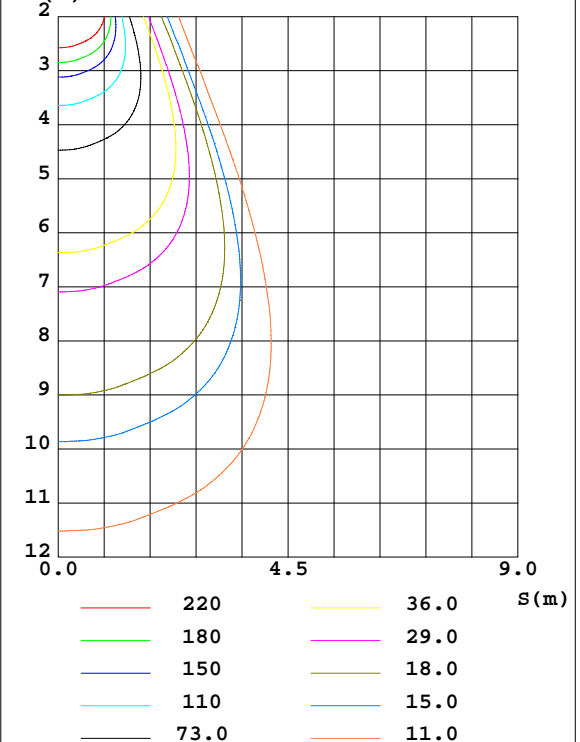
Test:U:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 14.20 lm/W			
MODEL		Imax(cd)	1586	S/MH(C0/180)	0.91
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.47
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2735.4	η UP,DN(C0-180)	0.0,49.8
NOMINAL FLUX(lm)	2735.44	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.15

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:

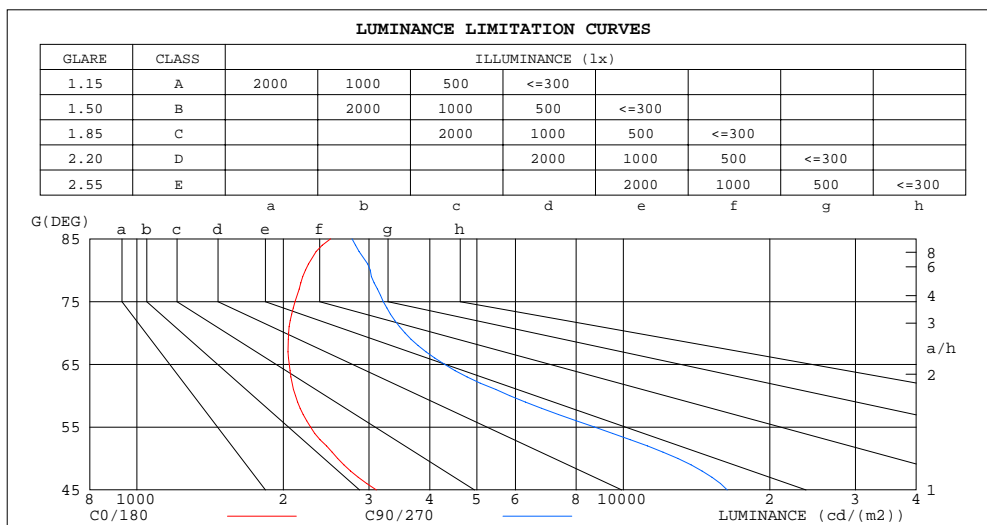
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1431	1455	1467	1443	1425	1457	1476	1454	0- 10	138.6	138.6	5.07,5.07
20	1317	1438	1545	1425	1294	1439	1565	1450	10- 20	410.5	549.1	20.1,20.1
30	848.9	1312	1498	1251	794.0	1299	1535	1304	20- 30	626.8	1176	43,43
40	314.3	815.4	1294	751.1	291.9	782.2	1350	814.0	30- 40	634.3	1810	66.2,66.2
50	159.6	311.8	798.2	289.1	154.2	292.5	825.6	308.7	40- 50	472.1	2282	83.4,83.4
60	101.7	135.5	280.2	131.6	98.81	129.5	281.7	135.4	50- 60	244.4	2527	92.4,92.4
70	67.32	78.86	116.8	76.87	65.08	75.95	116.1	78.10	60- 70	119.1	2646	96.7,96.7
80	37.01	40.40	50.30	38.68	34.60	38.24	49.80	39.80	70- 80	65.89	2712	99.1,99.1
90	4.536	4.622	4.562	3.625	2.148	2.835	4.725	4.167	80- 90	23.84	2735	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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 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	2501	2769
80	2220	3018
75	2114	3210
70	2050	3558
65	2057	4289
60	2118	5838
55	2275	8723
50	2586	12935
45	3108	16349

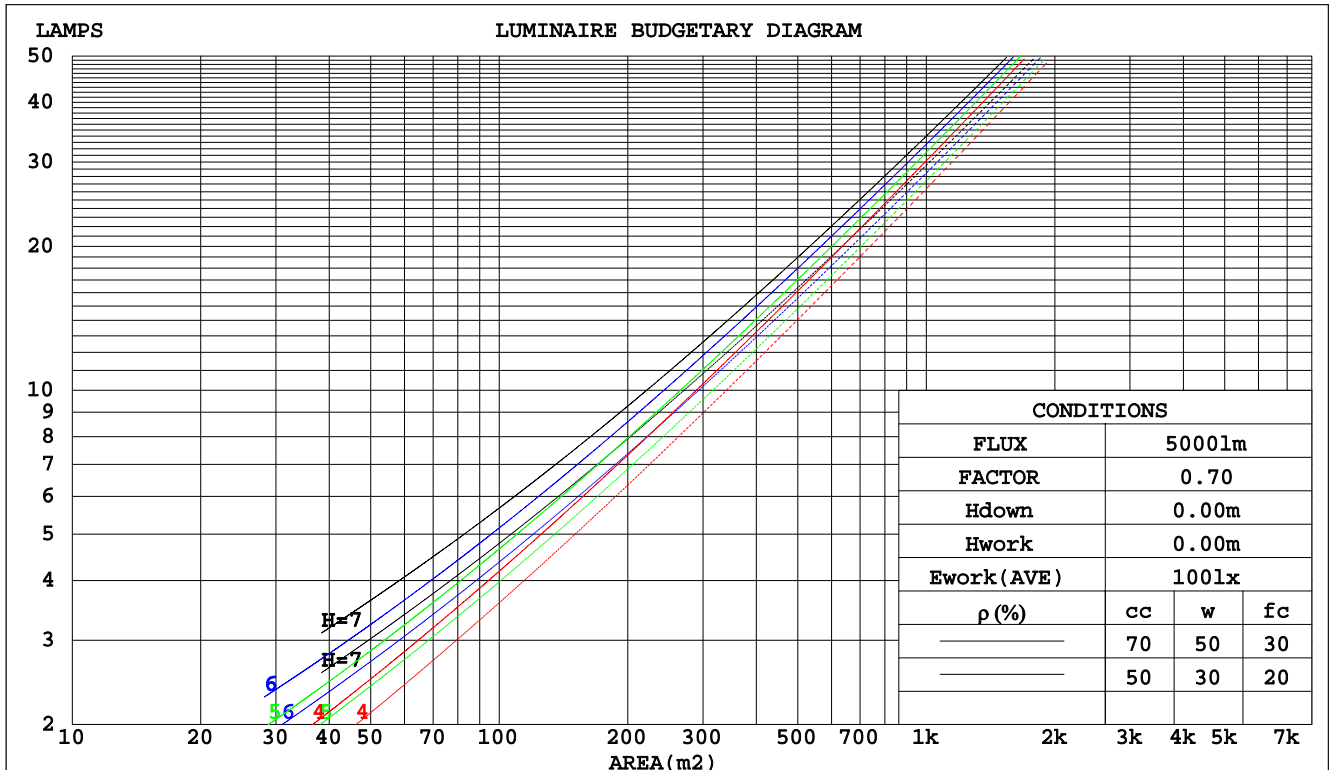
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 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															



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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 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	.240	.137	.043	.234	.133	.042	.221	.127	.040	.209	.120	.039	.198	.115	.037	
2.0	.230	.126	.039	.224	.123	.038	.213	.118	.037	.203	.114	.036	.193	.109	.034	
3.0	.217	.116	.035	.212	.114	.034	.203	.110	.033	.194	.106	.033	.185	.103	.032	
4.0	.205	.106	.031	.200	.105	.031	.192	.102	.030	.184	.099	.030	.176	.096	.029	
5.0	.193	.098	.028	.189	.097	.028	.181	.094	.028	.174	.092	.027	.168	.090	.027	
6.0	.182	.091	.026	.178	.090	.026	.172	.088	.026	.165	.086	.025	.159	.084	.025	
7.0	.172	.085	.024	.169	.084	.024	.163	.082	.024	.157	.080	.023	.152	.079	.023	
8.0	.162	.079	.022	.160	.079	.022	.154	.077	.022	.149	.076	.022	.144	.074	.022	
9.0	.154	.074	.021	.151	.074	.021	.147	.073	.021	.142	.071	.020	.138	.070	.020	
10.0	.146	.070	.019	.144	.070	.019	.140	.068	.019	.135	.067	.019	.132	.066	.019	

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	.176	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.105	.140	.114	.091	.096	.079	.064	.056	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.138	.089	.053	.119	.077	.046	.082	.054	.032	.047	.032	.019	.015	.010	.006	
6.0	.131	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.073	.037	.108	.064	.032	.074	.045	.023	.043	.026	.014	.014	.009	.004	
8.0	.119	.067	.032	.103	.058	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.062	.028	.098	.054	.024	.068	.038	.017	.040	.022	.010	.013	.007	.003	
10.0	.109	.058	.024	.094	.050	.021	.065	.036	.015	.038	.021	.009	.012	.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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 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	14.2	15.4	14.4	15.6	15.8	20.3	21.6	20.6	21.8	22.0	
	3H	14.8	16.0	15.1	16.2	16.4	20.6	21.7	20.9	22.0	22.2
	4H	15.2	16.3	15.5	16.5	16.8	20.7	21.8	21.0	22.0	22.3
	6H	15.6	16.6	15.9	16.9	17.1	20.8	21.8	21.1	22.1	22.3
	8H	15.7	16.7	16.1	17.0	17.3	20.8	21.8	21.2	22.1	22.4
	12H	15.9	16.8	16.2	17.1	17.4	20.8	21.8	21.2	22.1	22.4
4H	2H	14.7	15.8	15.0	16.1	16.3	20.2	21.3	20.5	21.5	21.7
	3H	15.5	16.5	15.9	16.8	17.1	20.5	21.5	20.9	21.8	22.1
	4H	16.0	16.9	16.4	17.2	17.5	20.7	21.6	21.1	21.9	22.2
	6H	16.5	17.3	16.9	17.6	18.0	21.0	21.7	21.3	22.1	22.4
	8H	16.8	17.5	17.2	17.8	18.2	21.0	21.7	21.4	22.1	22.5
	12H	17.0	17.6	17.4	18.0	18.4	21.1	21.7	21.5	22.1	22.5
8H	4H	16.3	17.0	16.7	17.4	17.8	20.7	21.4	21.1	21.8	22.2
	6H	17.0	17.6	17.4	18.0	18.4	21.0	21.6	21.4	22.0	22.4
	8H	17.3	17.8	17.8	18.3	18.7	21.2	21.7	21.6	22.1	22.5
	12H	17.7	18.1	18.1	18.5	19.0	21.3	21.7	21.8	22.2	22.6
12H	4H	16.4	17.0	16.8	17.4	17.8	20.7	21.3	21.1	21.7	22.1
	6H	17.1	17.6	17.5	18.0	18.5	21.0	21.5	21.5	21.9	22.4
	8H	17.5	17.9	18.0	18.4	18.8	21.2	21.6	21.7	22.1	22.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.9 / - 0.8					+ 0.8 / - 1.0					
1.5H	+ 1.0 / - 0.8					+ 1.3 / - 2.3					
2.0H	+ 0.6 / - 0.6					+ 3.1 / - 3.1					

CIE Pub.117, 2735 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.5$)

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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

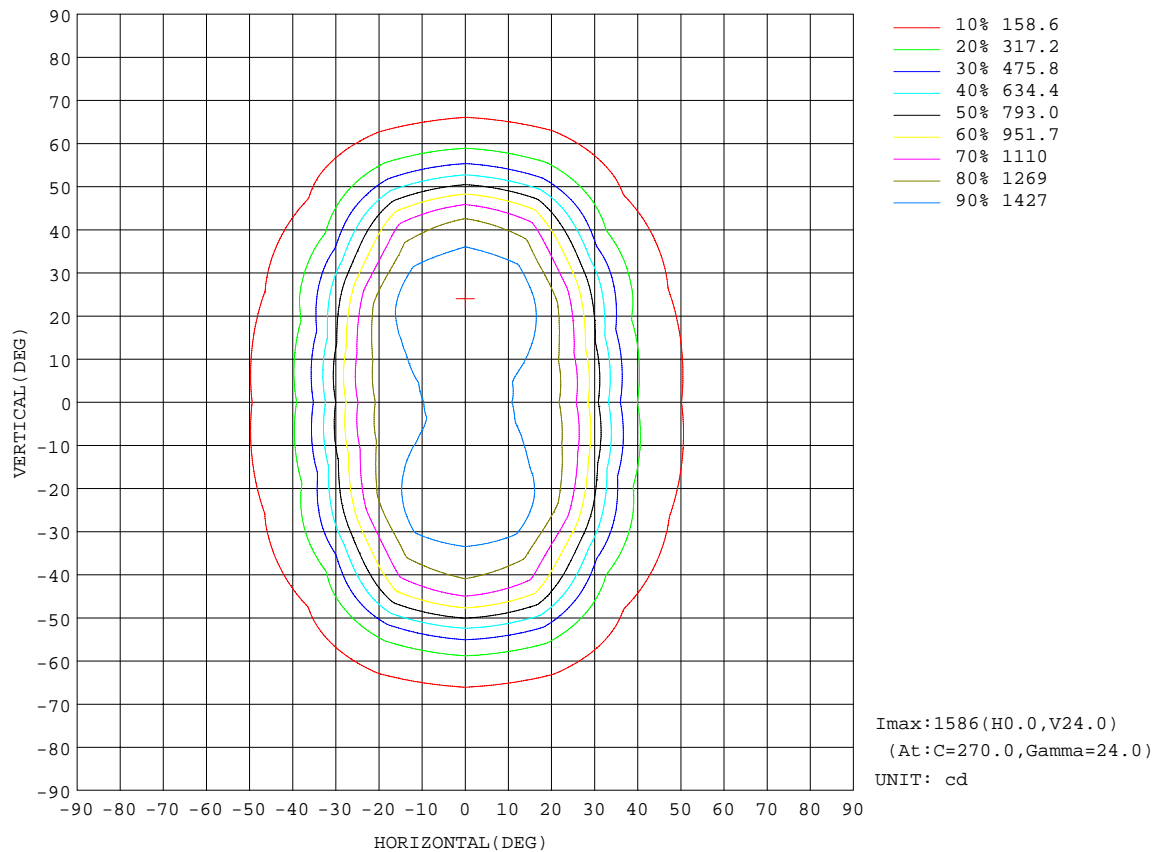
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	70	61	55	69	60	55	50
0.80	80	71	65	79	70	65	77	70	64	59
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	85	80	92	85	79	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	93	89	82
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	102	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	100	92
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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

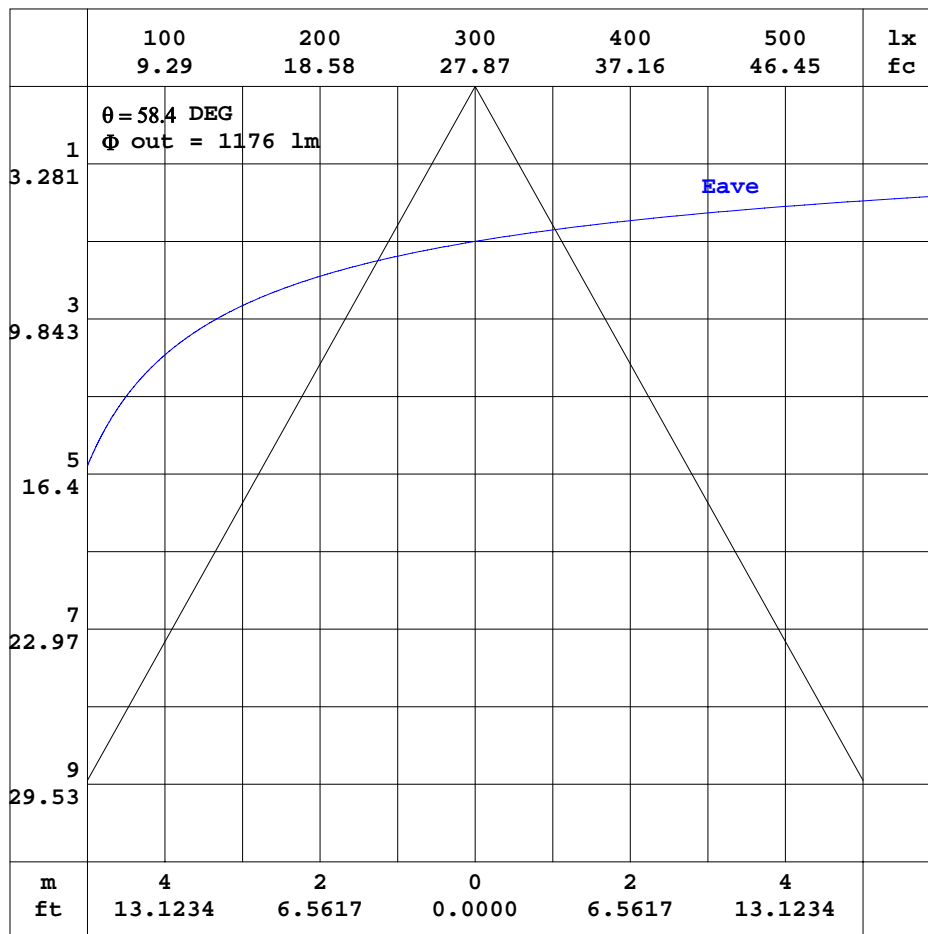


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-07

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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



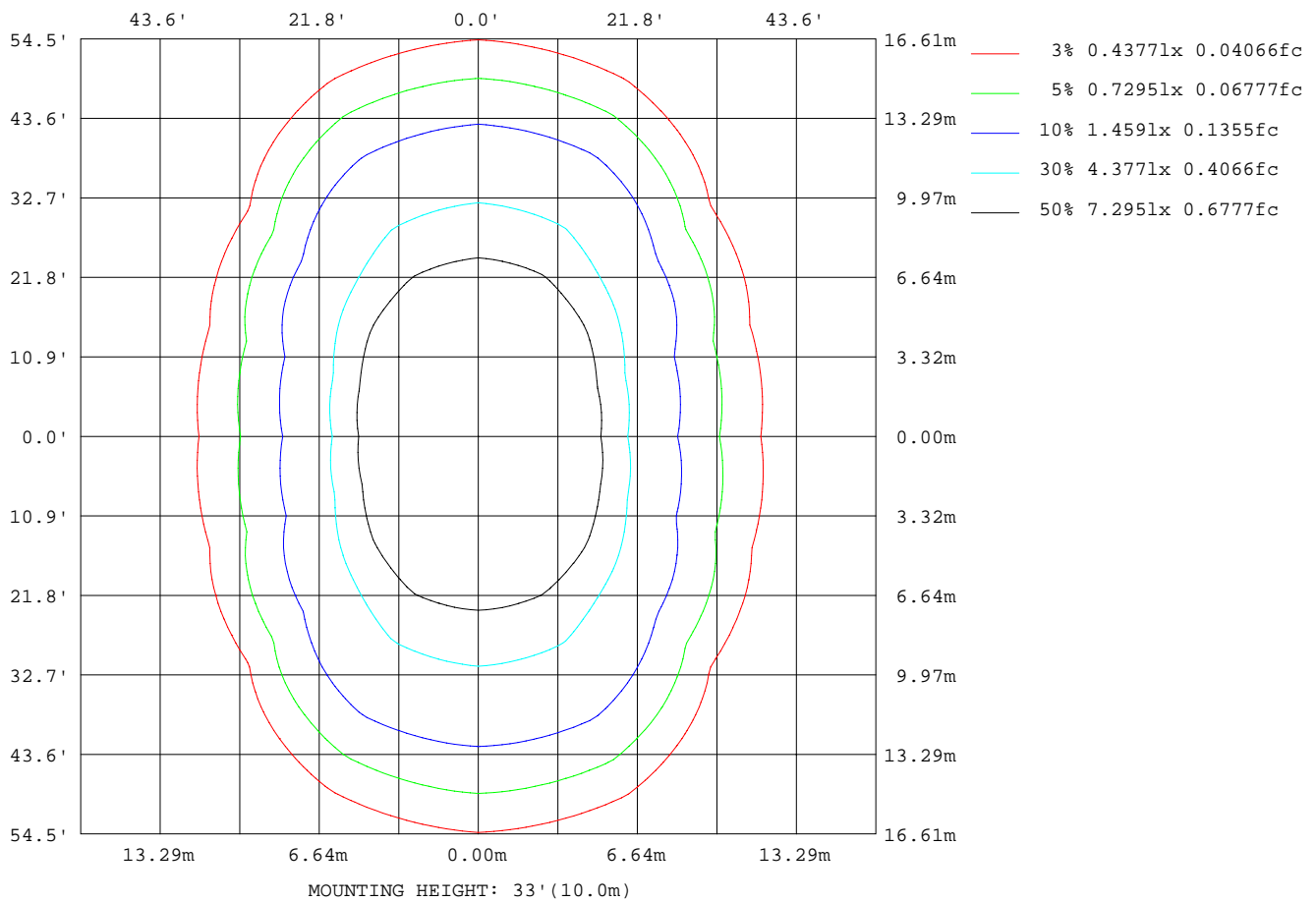
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 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:229.52V I:0.8504A P:192.65W PF:0.9870 Freq:49.99Hz Lamp Flux:2735.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

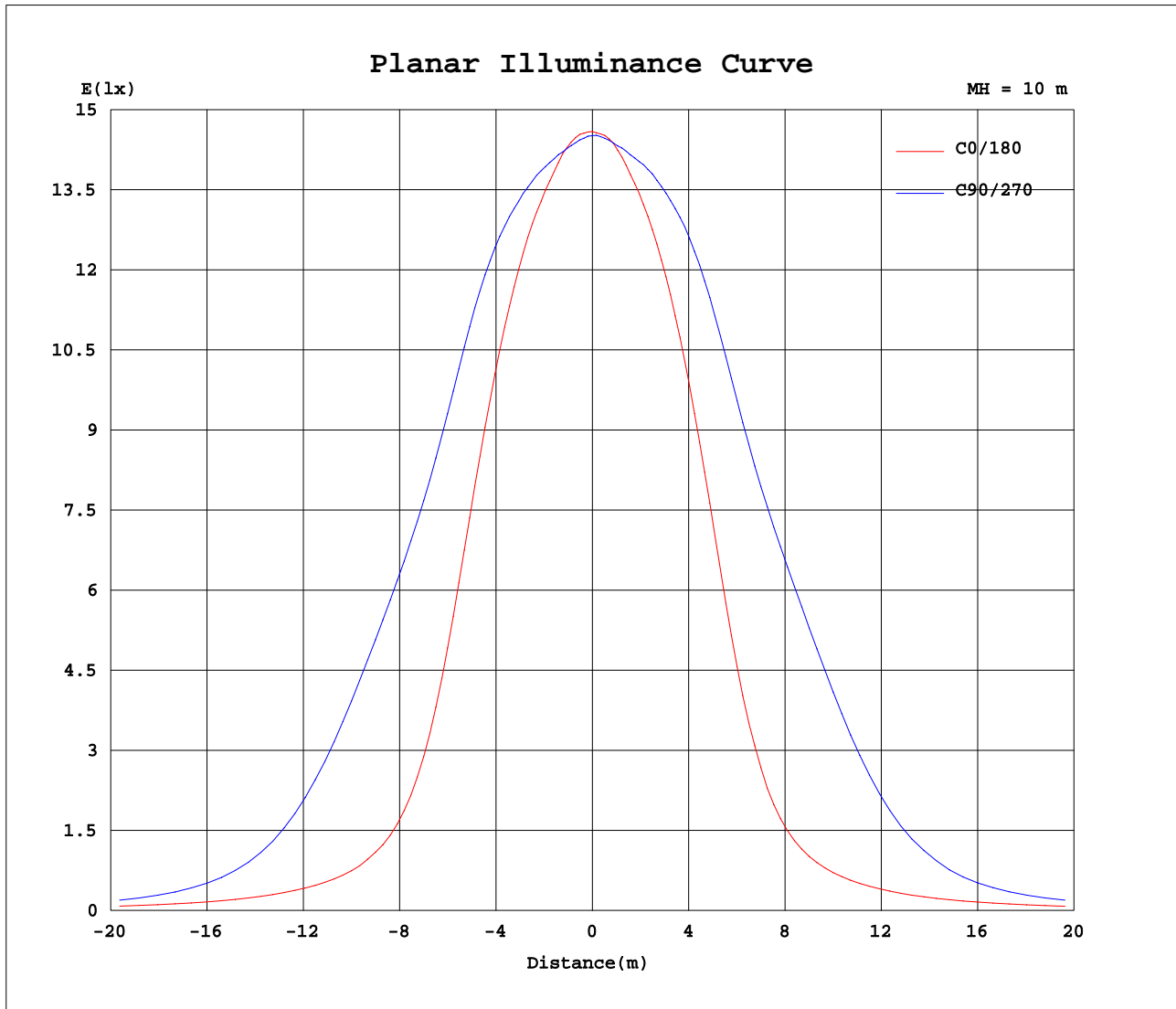
AvgL	cd/m2
L_0~180(65)av	2027
L_0~180(75)av	2070
L_0~180(85)av	2342
L_90~270(65)av	4288
L_90~270(75)av	3197
L_90~270(85)av	2786
L_45(65)av	2476
L_45(75)av	2327
L_45(85)av	2497

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:

```