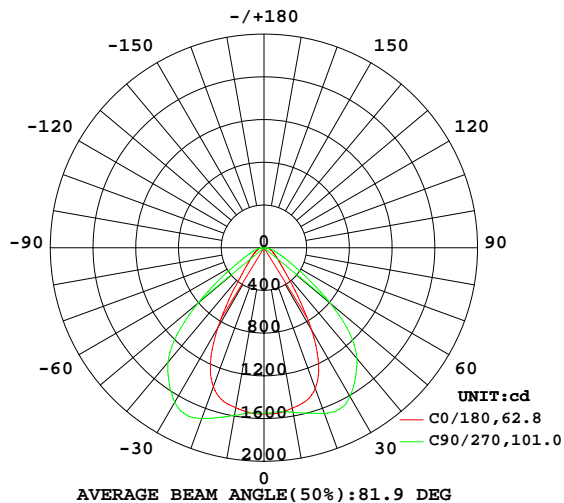


LUMINAIRE PHOTOMETRIC TEST REPORT

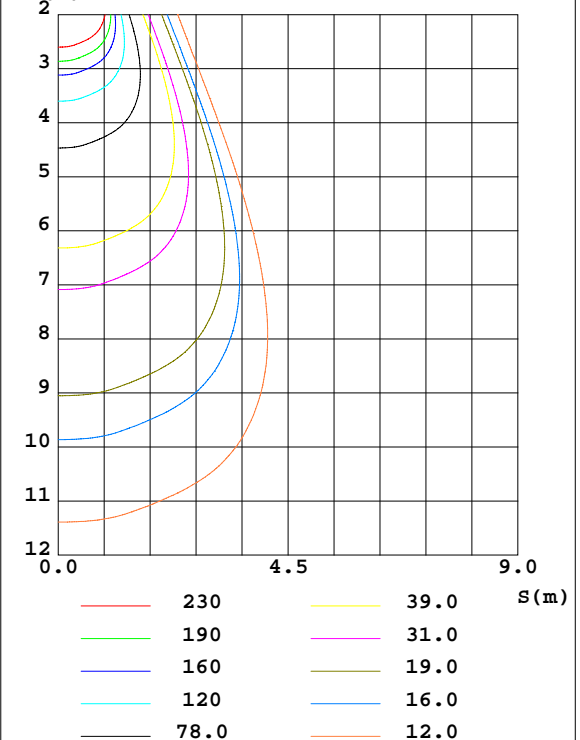
Test:U:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 19.06 lm/W			
MODEL		Imax(cd)	1728	S/MH(C0/180)	0.92
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.44
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2911.9	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	2911.93	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
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:2025-08-06

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:

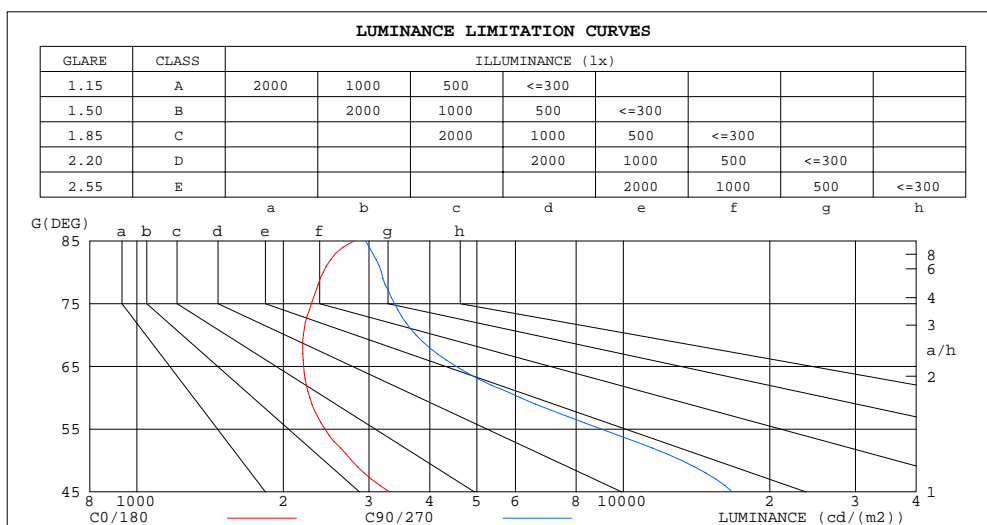
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1525	1542	1564	1535	1523	1562	1594	1561	0- 10	147.9	147.9	5.08,5.08
20	1404	1522	1651	1523	1387	1554	1702	1575	10- 20	439.6	587.6	20.2,20.2
30	894.0	1381	1611	1357	864.4	1412	1672	1431	20- 30	673.5	1261	43.3,43.3
40	332.5	837.5	1352	846.3	320.3	842.6	1398	913.1	30- 40	681.8	1943	66.7,66.7
50	170.5	318.2	813.1	329.5	167.9	310.8	805.1	344.4	40- 50	493.5	2436	83.7,83.7
60	108.8	141.8	294.8	145.3	107.6	138.7	280.3	148.0	50- 60	252.9	2689	92.4,92.4
70	72.19	83.21	123.0	83.55	71.18	82.45	120.2	85.19	60- 70	125.9	2815	96.7,96.7
80	40.28	42.81	53.07	42.41	38.26	42.12	53.04	43.49	70- 80	70.77	2886	99.1,99.1
90	6.143	5.000	4.699	4.321	2.990	4.691	4.699	5.249	80- 90	26.04	2912	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:2025-08-06

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ 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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 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	2795	2950
80	2416	3184
75	2283	3385
70	2199	3746
65	2202	4531
60	2268	6141
55	2435	9013
50	2763	13177
45	3307	16747

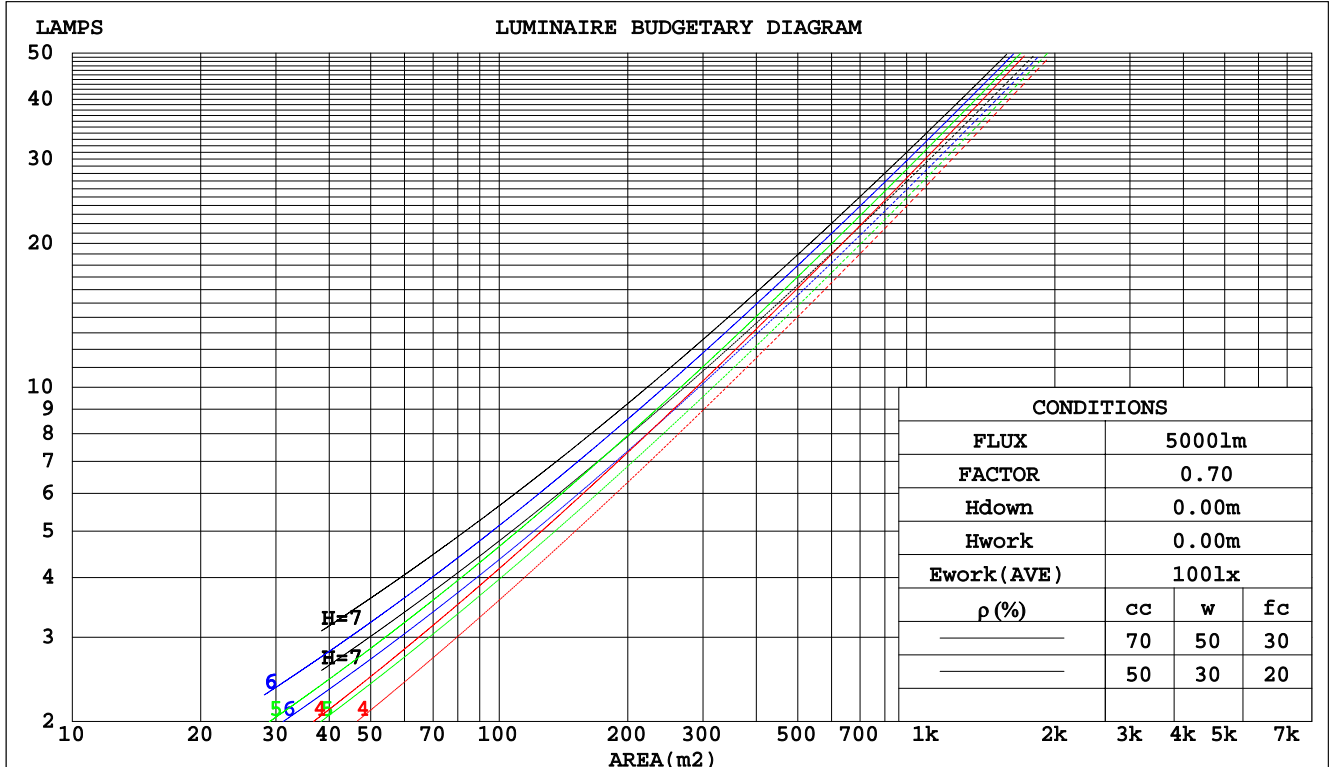
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 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			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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.78
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.71	.70
4.0	.80	.72	.67	.78	.72	.66	.76	.70	.66	.74	.69	.65	.72	.67	.64	.62
5.0	.73	.65	.59	.72	.64	.59	.70	.63	.59	.68	.62	.58	.66	.61	.57	.56
6.0	.66	.59	.53	.66	.58	.53	.64	.58	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.61	.54	.48	.60	.53	.48	.59	.52	.48	.58	.52	.47	.56	.51	.47	.45
8.0	.56	.49	.44	.56	.49	.44	.55	.48	.43	.53	.48	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.38
10.0	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.36	.45	.40	.36	.35



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 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	.233	.133	.042	.220	.126	.040	.208	.120	.039	.198	.115	.037	
2.0	.230	.126	.039	.224	.123	.038	.213	.118	.037	.202	.113	.036	.193	.109	.034	
3.0	.217	.115	.035	.212	.113	.034	.202	.109	.033	.193	.106	.032	.185	.102	.032	
4.0	.204	.106	.031	.200	.105	.031	.191	.101	.030	.183	.098	.030	.176	.096	.029	
5.0	.192	.098	.028	.188	.097	.028	.181	.094	.028	.174	.092	.027	.167	.089	.027	
6.0	.181	.091	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	.159	.084	.025	
7.0	.171	.085	.024	.168	.084	.024	.162	.082	.024	.157	.080	.023	.151	.079	.023	
8.0	.162	.079	.022	.159	.078	.022	.154	.077	.022	.149	.075	.022	.144	.074	.022	
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.021	.142	.071	.020	.137	.070	.020	
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.135	.067	.019	.131	.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	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016		
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.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	.063	.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:2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 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	14.2	15.5	14.5	15.7	15.9	20.3	21.5	20.5	21.7	21.9	
	3H	14.9	16.1	15.2	16.3	16.5	20.5	21.7	20.8	21.9	22.1	
	4H	15.3	16.4	15.6	16.6	16.9	20.6	21.7	20.9	22.0	22.2	
	6H	15.7	16.7	16.0	17.0	17.3	20.8	21.8	21.1	22.0	22.3	
	8H	15.9	16.9	16.2	17.2	17.4	20.8	21.8	21.1	22.1	22.3	
	12H	16.1	17.0	16.4	17.3	17.6	20.8	21.8	21.2	22.0	22.3	
	4H	2H	14.8	15.9	15.1	16.1	16.3	20.1	21.2	20.4	21.4	21.7
		3H	15.6	16.6	16.0	16.8	17.1	20.5	21.4	20.8	21.7	22.0
		4H	16.1	17.0	16.5	17.3	17.6	20.7	21.6	21.1	21.9	22.2
		6H	16.7	17.5	17.1	17.8	18.2	20.9	21.7	21.3	22.0	22.4
		8H	17.0	17.7	17.4	18.0	18.4	21.0	21.7	21.4	22.1	22.5
		12H	17.2	17.8	17.6	18.2	18.6	21.1	21.7	21.5	22.1	22.5
8H	4H	16.4	17.1	16.8	17.5	17.9	20.7	21.4	21.1	21.7	22.1	
	6H	17.1	17.7	17.6	18.1	18.5	21.0	21.6	21.4	22.0	22.4	
	8H	17.5	18.0	18.0	18.4	18.9	21.2	21.7	21.6	22.1	22.5	
	12H	17.9	18.3	18.3	18.7	19.2	21.3	21.7	21.8	22.2	22.6	
12H	4H	16.5	17.1	16.9	17.5	17.9	20.7	21.3	21.1	21.7	22.1	
	6H	17.2	17.8	17.7	18.2	18.6	21.0	21.5	21.5	21.9	22.4	
	8H	17.7	18.1	18.1	18.5	19.0	21.2	21.6	21.7	22.1	22.5	
Variations with the observer position at spacings:												
S = 1.0H		+ 0.8 / - 0.8					+ 0.8 / - 1.0					
1.5H		+ 0.9 / - 0.7					+ 1.3 / - 2.3					
2.0H		+ 0.5 / - 0.5					+ 3.1 / - 3.0					

CIE Pub.117, 2912 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.7$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

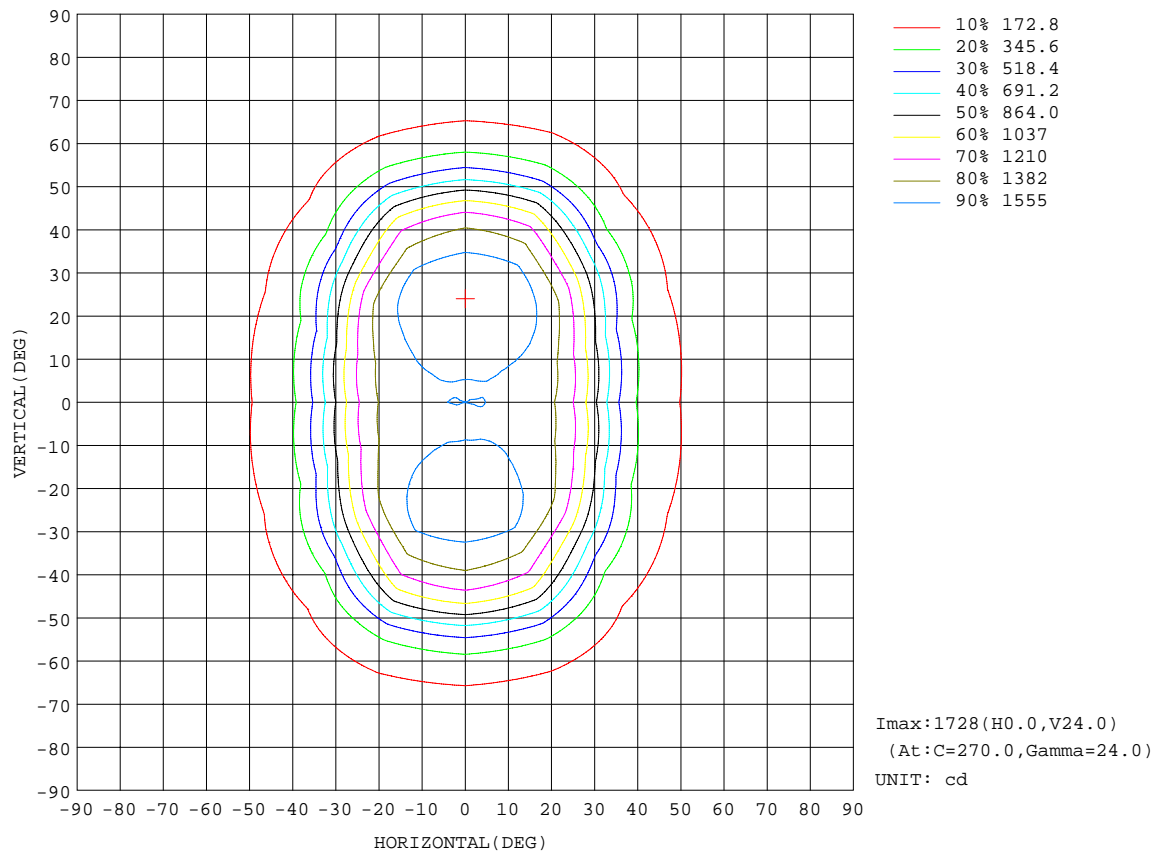
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	61	56	70	61	56	69	61	55	50
0.80	80	71	65	79	71	65	78	70	65	59
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	84	93	88	83	77
2.00	102	96	91	101	95	90	97	93	89	82
2.50	105	99	95	103	98	94	100	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	101	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:2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

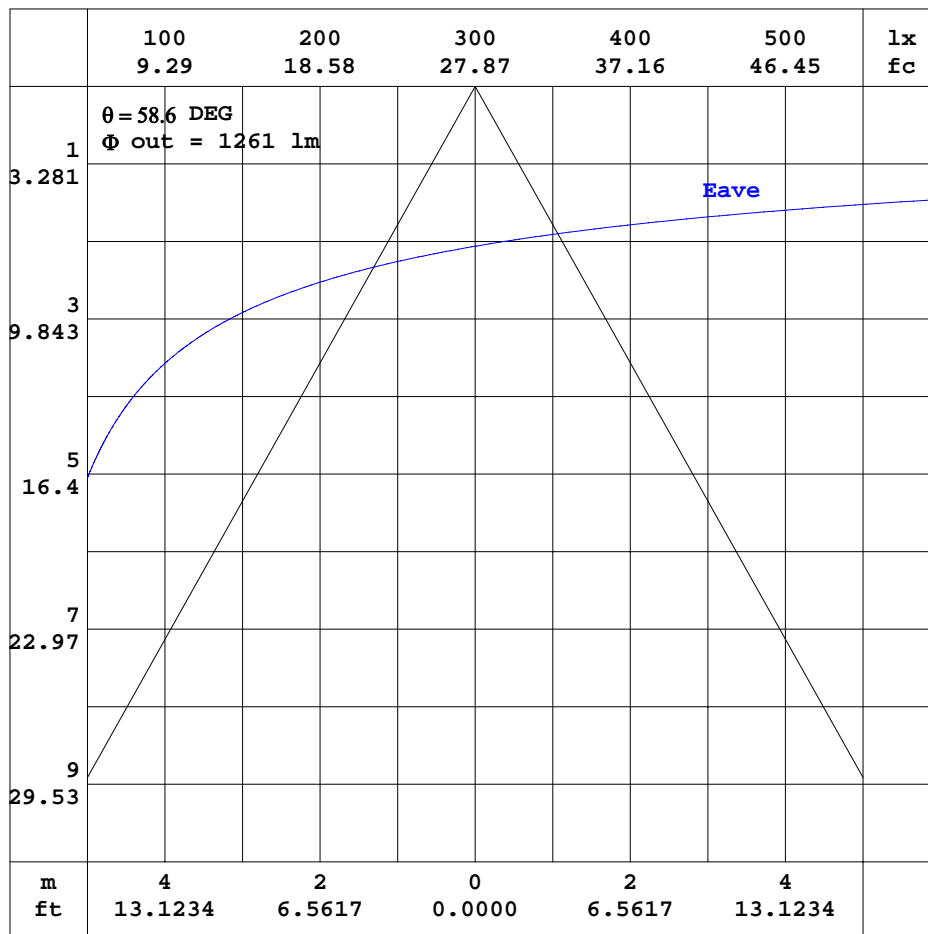


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:



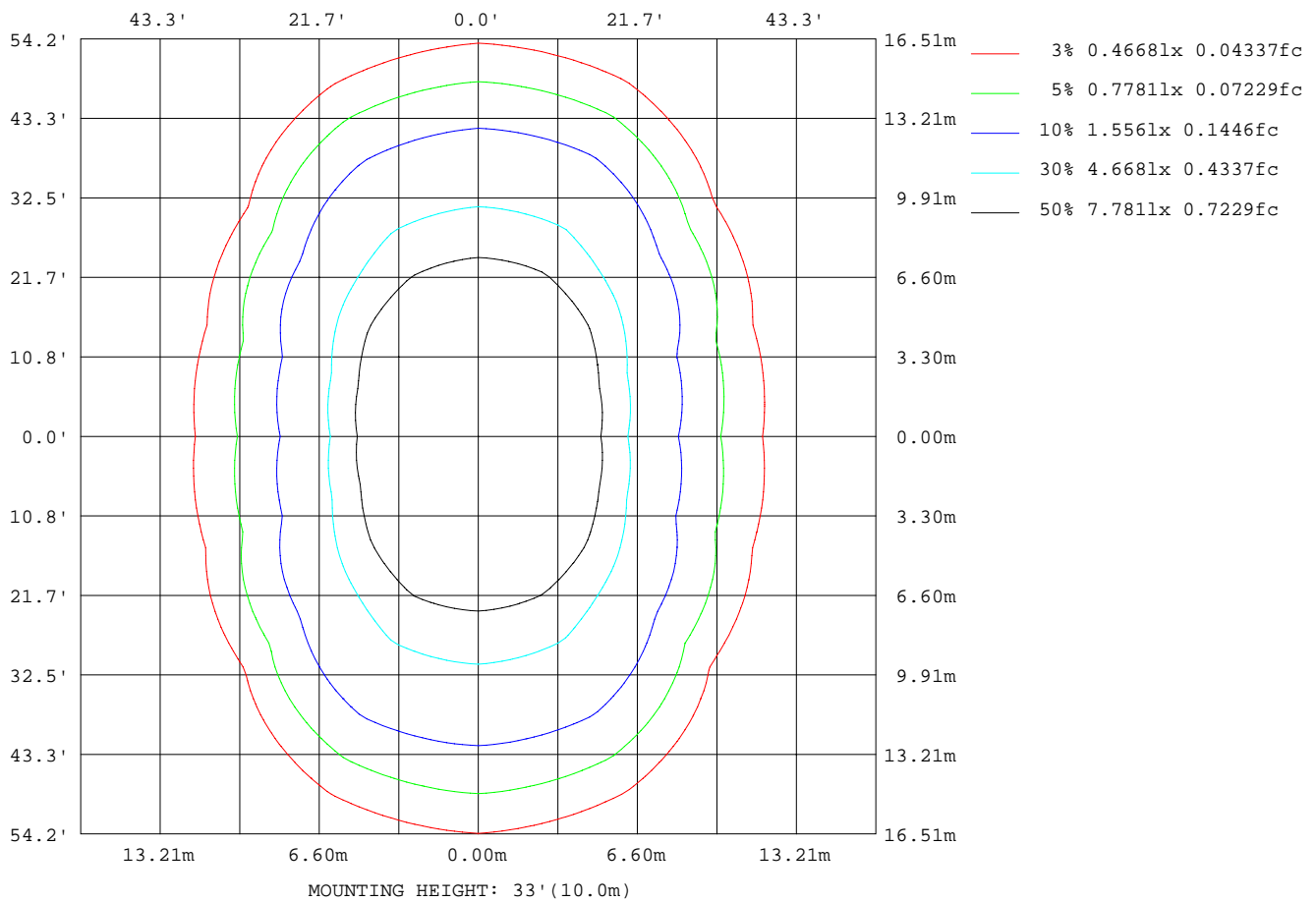
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 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: 2025-08-06

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:229.58V I:0.6793A P:152.80W PF:0.9798 Freq:49.99Hz Lamp Flux:2911.93x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1282*160*28	SERIAL No.:
MFR.:	SUR.:0.8*0.12	Shielding Angle:

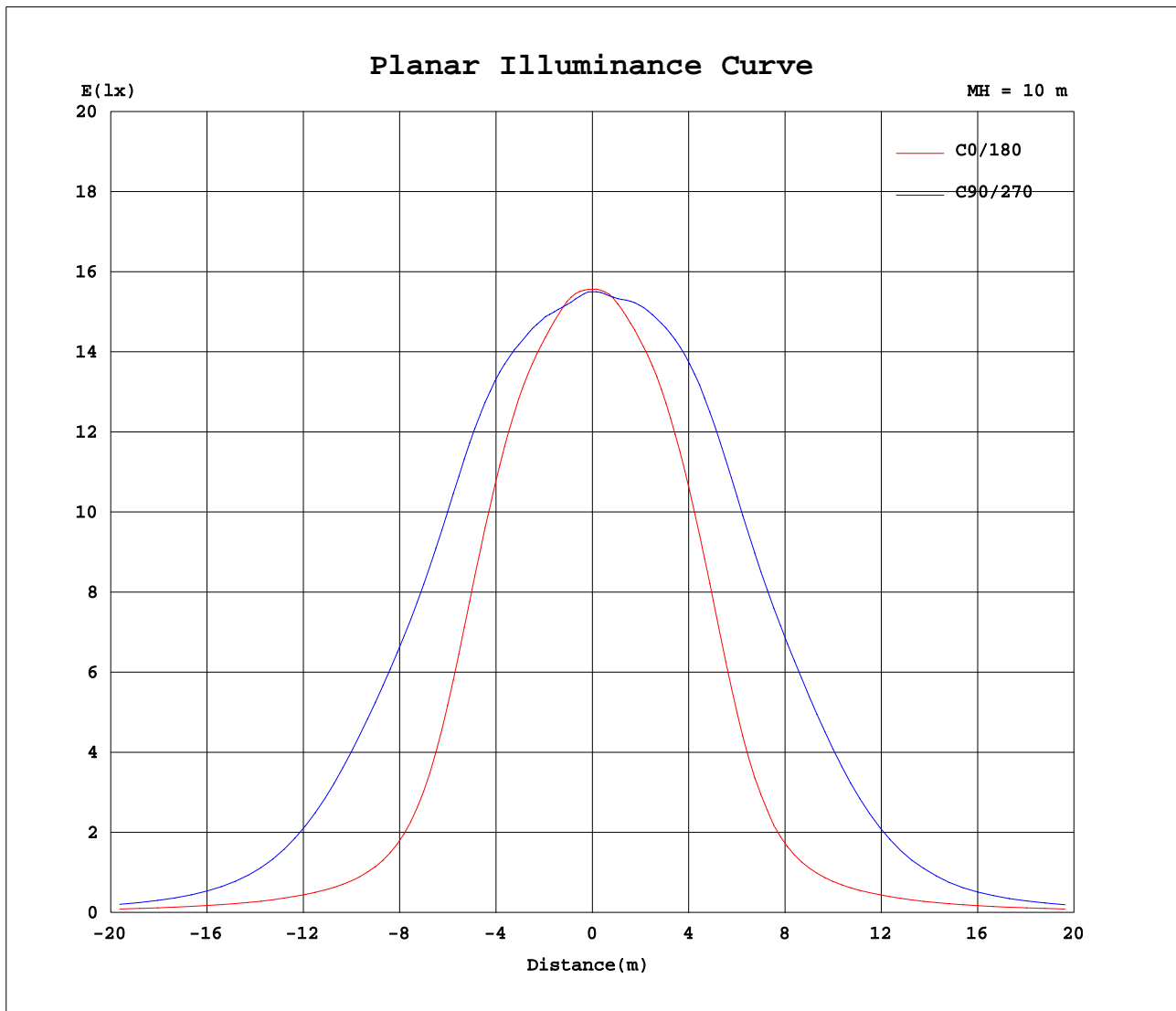
AvgL	cd/m2
L_0~180(65)av	2191
L_0~180(75)av	2254
L_0~180(85)av	2631
L_90~270(65)av	4444
L_90~270(75)av	3372
L_90~270(85)av	2985
L_45(65)av	2673
L_45(75)av	2522
L_45(85)av	2728

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-06

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: 2025-08-06

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:

```

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