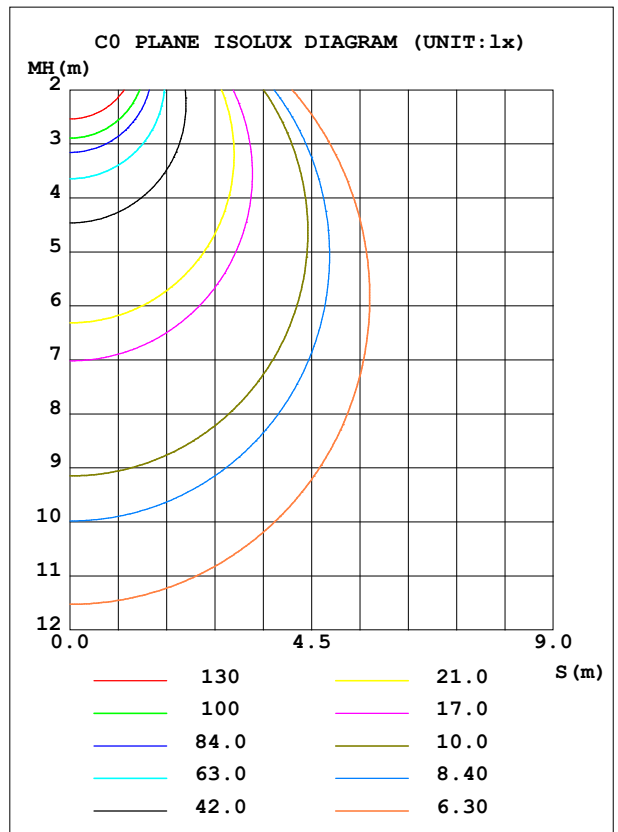
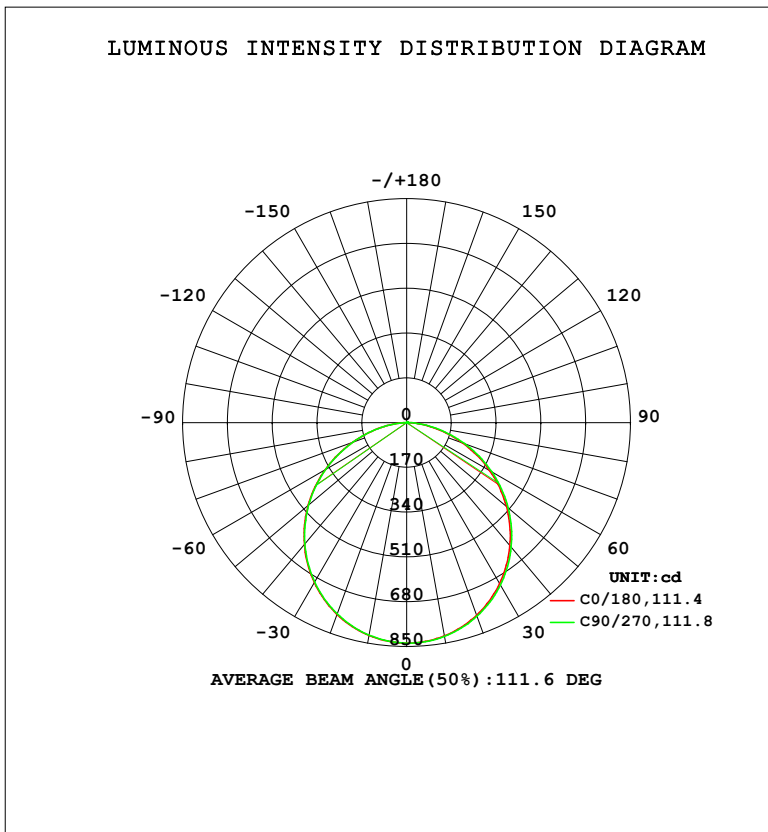


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDSN_3500K	Imax (cd)	836.9	S/MH (C0/180)	1.25
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2372.5	η UP, DN (C0-180)	0.1,50.6
NOMINAL FLUX (lm)	2372.54	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,49.2
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	99.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity: 65.0%
 Test Distance: 8.800m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

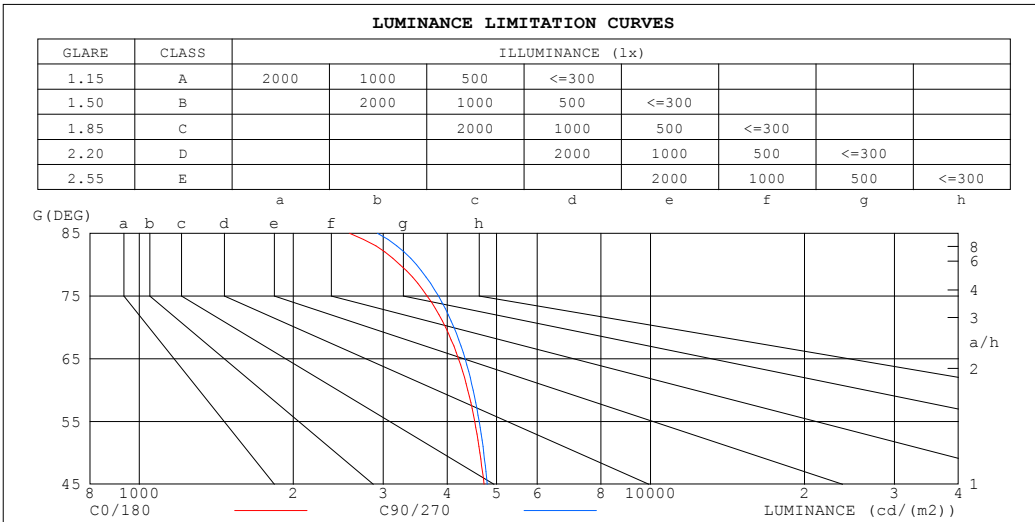
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	822.3	824.1	820.7	819.2					0- 10	79.15	79.15	3.34,3.34
20	777.7	781.8	774.5	772.3					10- 20	226.5	305.6	12.9,12.9
30	705.8	712.1	701.1	698.6					20- 30	342.7	648.3	27.3,27.3
40	609.9	617.5	604.1	601.3					30- 40	412.2	1061	44.7,44.7
50	494.9	503.1	488.2	485.4					40- 50	426.2	1487	62.7,62.7
60	364.5	373.3	357.4	354.6					50- 60	383.4	1870	78.8,78.8
70	225.5	234.2	217.6	217.2					60- 70	290.2	2160	91.1,91.1
80	93.21	100.4	86.75	86.86					70- 80	164.7	2325	98,98
90	0.1033	0.0719	0.0885	0.0888					80- 90	41.91	2367	99.8,99.8
100	0.2151	0.2598	0.3097	0.2815					90-100	0.1636	2367	99.8,99.8
110	0.4694	0.5306	0.6191	0.5964					100-110	0.4296	2368	99.8,99.8
120	0.7402	0.8069	0.9121	0.9168					110-120	0.6955	2368	99.8,99.8
130	0.9836	1.061	1.216	1.232					120-130	0.8836	2369	99.9,99.9
140	1.210	1.265	1.487	1.497					130-140	0.9624	2370	99.9,99.9
150	1.442	1.492	1.719	1.734					140-150	0.9272	2371	99.9,99.9
160	1.702	1.718	1.934	1.922					150-160	0.7862	2372	100,100
170	1.972	2.028	2.166	2.094					160-170	0.5473	2372	100,100
180	2.161	2.160	2.183	2.166					170-180	0.2023	2373	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2579	2921
80	3233	3485
75	3655	3847
70	3971	4125
65	4212	4336
60	4392	4498
55	4530	4622
50	4638	4716
45	4724	4793

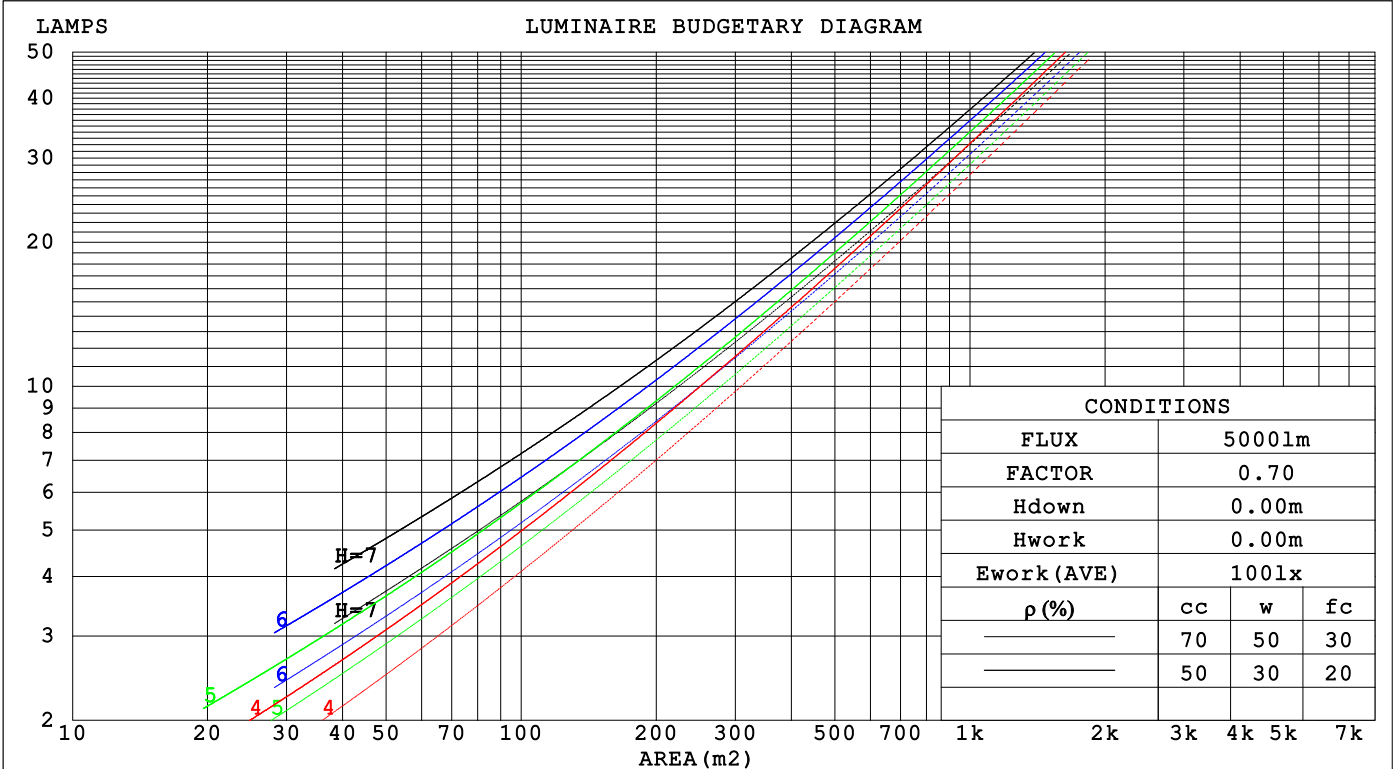
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	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	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.69
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.58
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz		
Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.308	.175	.055	.301	.172	.055	.288	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.291	.159	.049	.284	.157	.048	.272	.151	.047	.262	.147	.046	.251	.142	.045	
3.0	.269	.143	.043	.264	.141	.042	.253	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.226	.116	.034	.217	.113	.033	.210	.111	.033	.202	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.177	.092	.027	
8.0	.185	.091	.025	.182	.090	.025	.176	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.147	.074	.021	

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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.182	.158	.136	.156	.136	.117	.107	.093	.081	.061	.054	.047	.020	.017	.015	
2.0	.174	.134	.100	.149	.115	.086	.102	.080	.060	.059	.046	.035	.019	.015	.012	
3.0	.166	.116	.076	.142	.100	.066	.098	.070	.046	.056	.041	.027	.018	.013	.009	
4.0	.159	.103	.060	.136	.089	.052	.094	.062	.037	.054	.036	.022	.017	.012	.007	
5.0	.151	.092	.049	.130	.080	.043	.089	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.041	.124	.073	.036	.085	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.137	.077	.035	.118	.067	.031	.082	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.113	.062	.027	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.107	.058	.024	.074	.041	.017	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	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	18.2	19.7	18.4	19.9	20.1	18.2	19.8	18.5	20.0	20.2
3H	19.7	21.1	20.0	21.3	21.5	19.8	21.2	20.1	21.4	21.7
4H	20.2	21.6	20.6	21.8	22.1	20.4	21.7	20.7	22.0	22.2
6H	20.7	21.9	21.0	22.2	22.5	20.8	22.1	21.2	22.4	22.7
8H	20.8	22.0	21.1	22.3	22.6	21.0	22.2	21.3	22.5	22.8
12H	20.8	22.0	21.2	22.3	22.6	21.1	22.2	21.4	22.5	22.8
4H 2H	18.8	20.1	19.1	20.4	20.6	18.8	20.2	19.2	20.4	20.7
3H	20.5	21.6	20.8	21.9	22.2	20.6	21.7	20.9	22.0	22.3
4H	21.2	22.2	21.5	22.6	22.9	21.3	22.4	21.7	22.7	23.0
6H	21.7	22.7	22.1	23.0	23.4	21.9	22.8	22.3	23.2	23.5
8H	21.9	22.8	22.3	23.1	23.5	22.1	23.0	22.5	23.3	23.7
12H	22.0	22.8	22.4	23.2	23.6	22.2	23.0	22.6	23.4	23.8
8H 4H	21.4	22.3	21.9	22.7	23.1	21.6	22.4	22.0	22.8	23.2
6H	22.1	22.9	22.6	23.3	23.7	22.3	23.0	22.7	23.4	23.9
8H	22.4	23.0	22.8	23.5	23.9	22.6	23.2	23.0	23.6	24.1
12H	22.6	23.1	23.0	23.6	24.1	22.8	23.3	23.2	23.8	24.3
12H 4H	21.5	22.3	21.9	22.7	23.1	21.6	22.4	22.0	22.8	23.2
6H	22.2	22.8	22.7	23.3	23.7	22.3	23.0	22.8	23.4	23.9
8H	22.5	23.0	23.0	23.5	24.0	22.7	23.2	23.1	23.7	24.1

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.2 / - 0.2	+ 0.2 / - 0.2
1.5H	+ 0.2 / - 0.3	+ 0.2 / - 0.3
2.0H	+ 0.2 / - 0.3	+ 0.2 / - 0.3

CIE Pub.117, 2373 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.0)
Area: 0.166 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

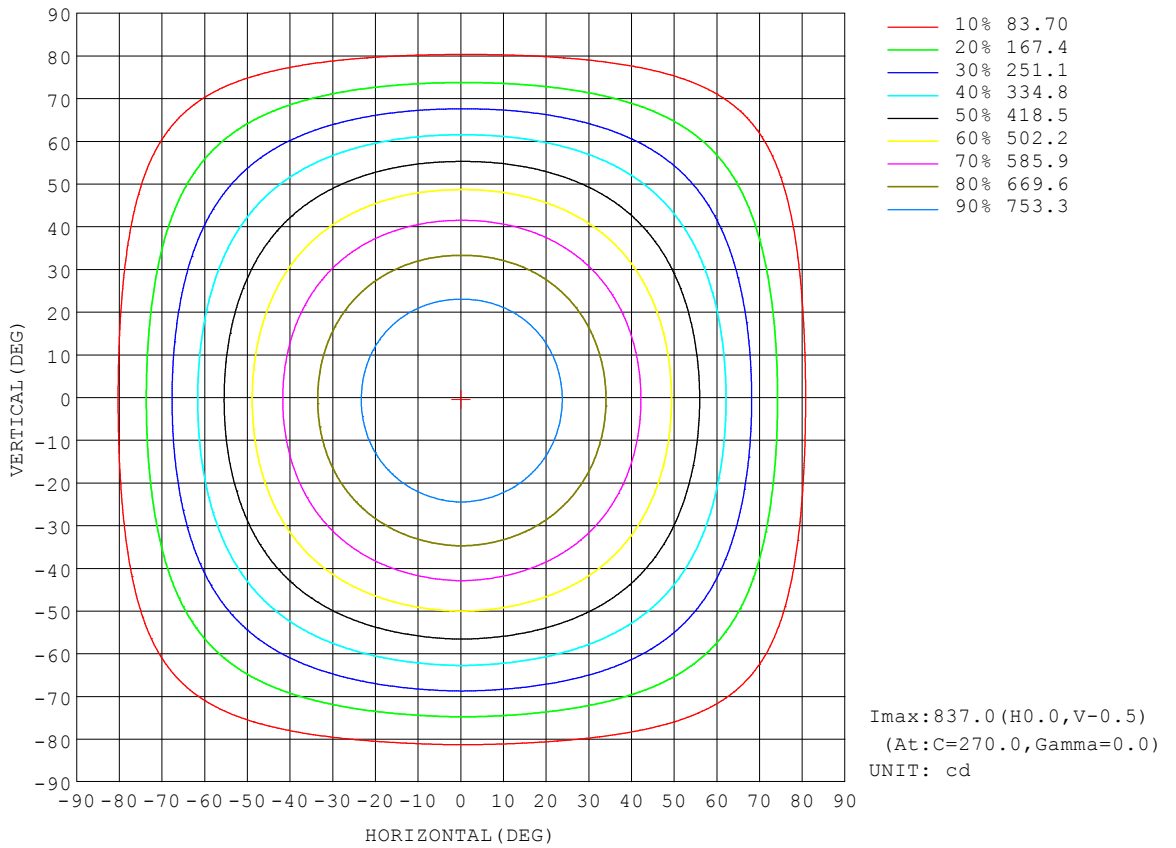
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	66	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	76	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	95	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: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

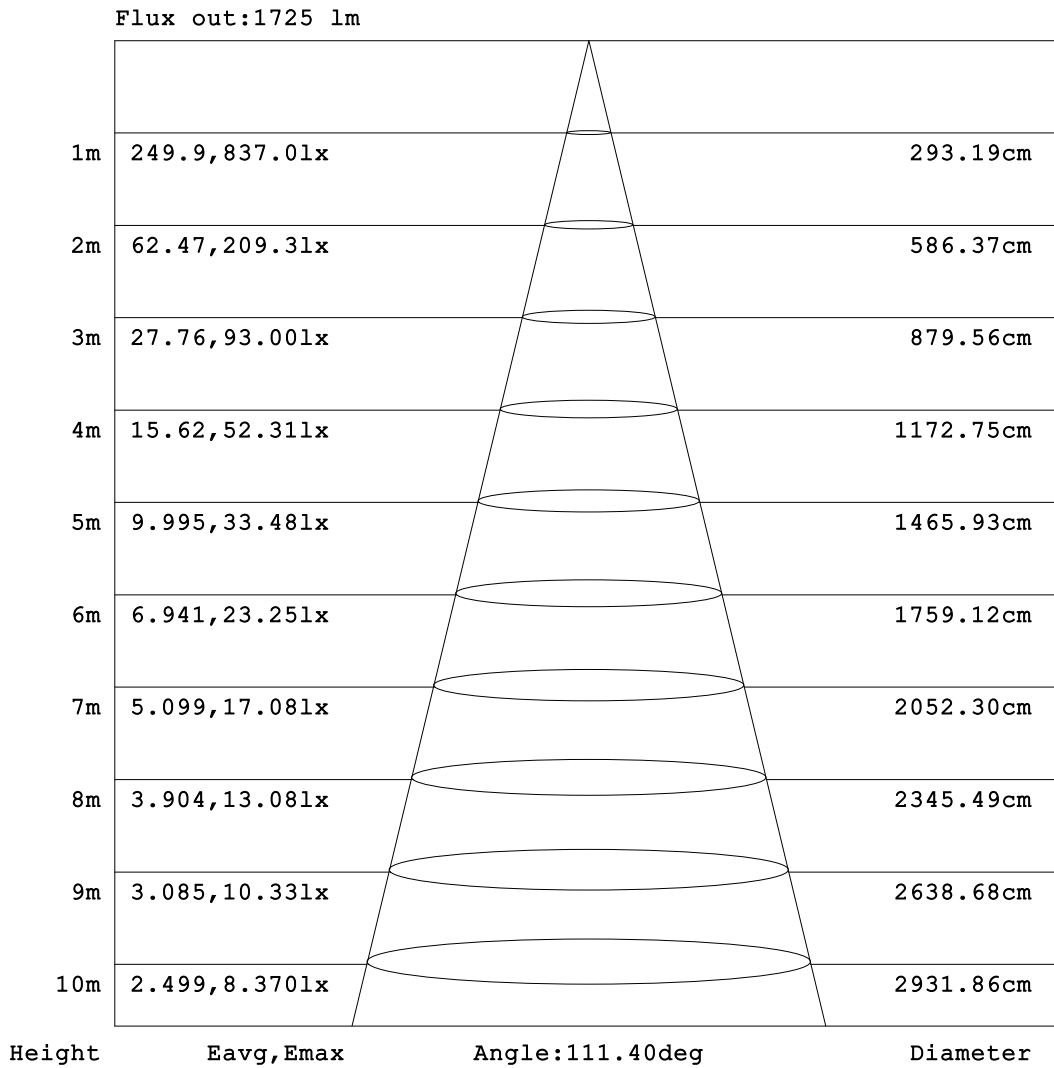


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



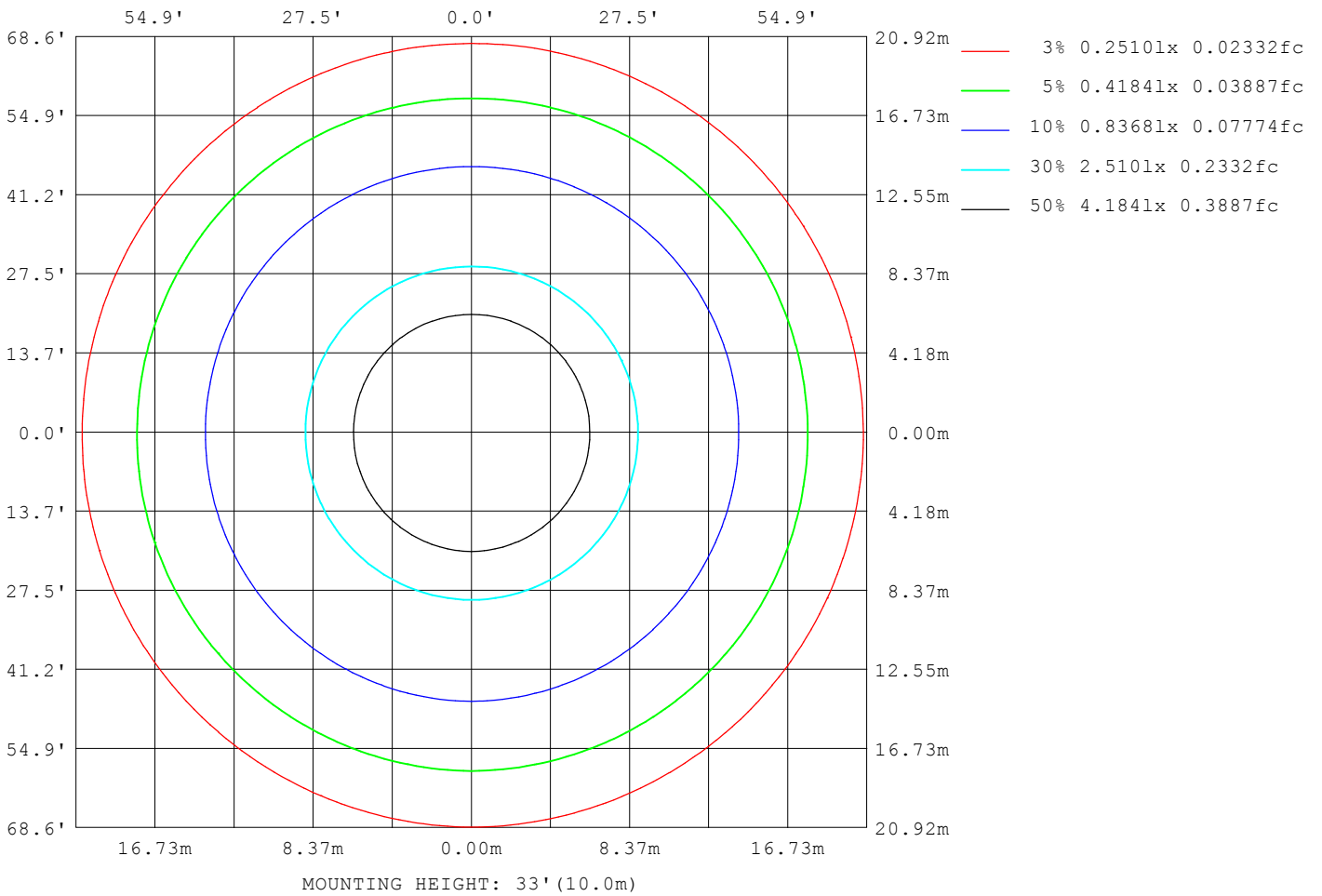
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity: 65.0%
 Test Distance: 8.800m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

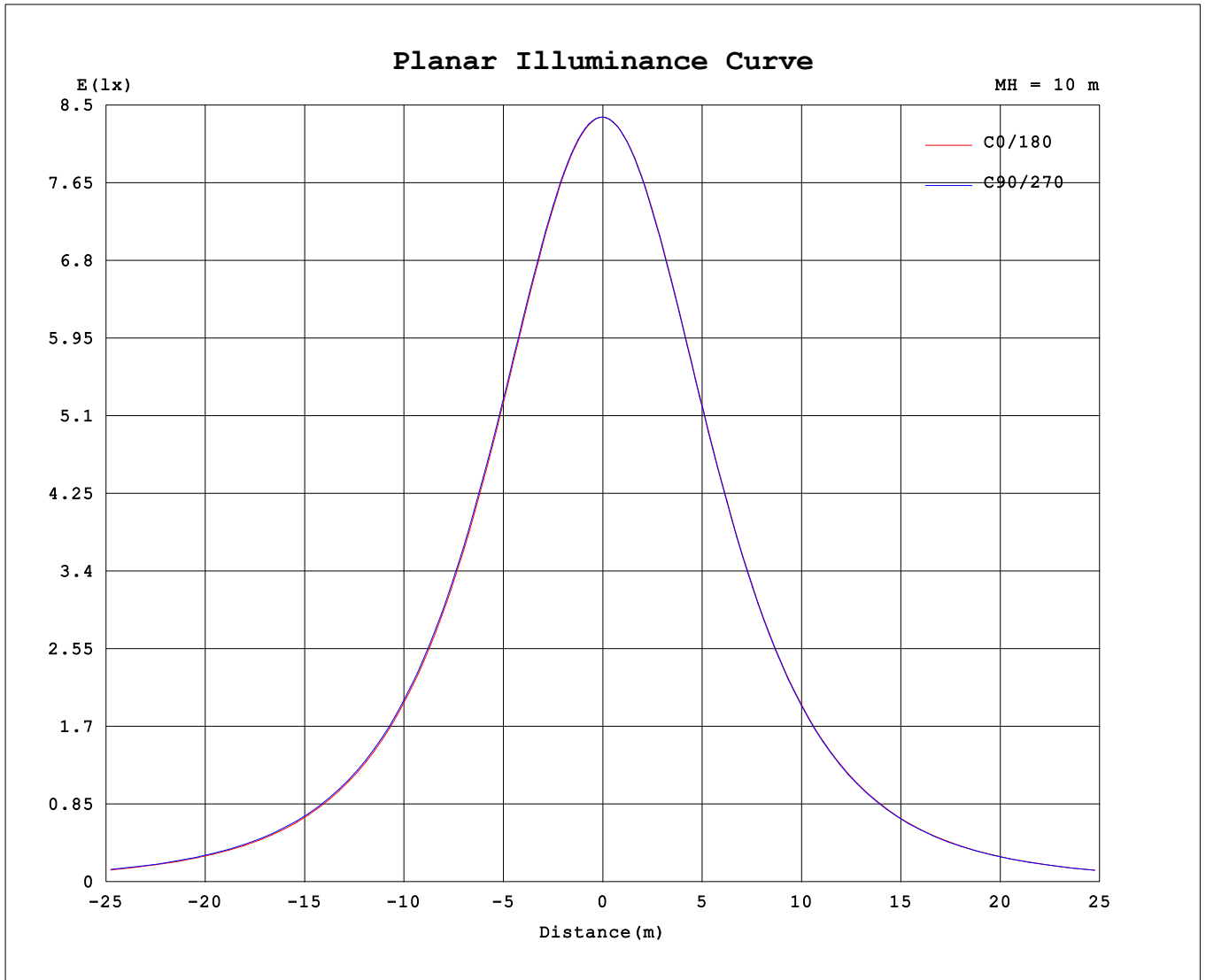
AvgL	cd/m2
L_0~180 (65) av	4157
L_0~180 (75) av	3568
L_0~180 (85) av	2405
L_90~270 (65) av	4207
L_90~270 (75) av	3669
L_90~270 (85) av	2543
L_45 (65) av	4185
L_45 (75) av	3626
L_45 (85) av	2481

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:8.800m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity: 65.0%
Test Distance: 8.800m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.97V I:0.2548A P:30.288W PF:0.9906 Freq:49.99Hz Lamp Flux:2372.54x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	837	837	837	837															
5	833	834	832	832															
10	822	824	821	819															
15	804	806	801	799															
20	778	782	775	772															
25	745	750	741	739															
30	706	712	701	699															
35	660	668	655	653															
40	610	618	604	601															
45	555	563	548	545															
50	495	503	488	485															
55	431	440	424	421															
60	365	373	357	355															
65	296	304	288	286															
70	225	234	218	217															
75	157	165	150	150															
80	93.2	100	86.8	86.9															
85	37.3	42.3	32.3	31.3															
90	0.10	0.07	0.09	0.09															
95	0.09	0.14	0.18	0.14															
100	0.22	0.26	0.31	0.28															
105	0.34	0.40	0.46	0.45															
110	0.47	0.53	0.62	0.60															
115	0.61	0.68	0.76	0.76															
120	0.74	0.81	0.91	0.92															
125	0.87	0.93	1.07	1.08															
130	0.98	1.06	1.22	1.23															
135	1.10	1.17	1.36	1.37															
140	1.21	1.27	1.49	1.50															
145	1.32	1.38	1.60	1.62															
150	1.44	1.49	1.72	1.73															
155	1.57	1.60	1.83	1.82															
160	1.70	1.72	1.93	1.92															
165	1.83	1.85	2.06	2.02															
170	1.97	2.03	2.17	2.09															
175	2.09	2.16	2.19	2.15															
180	2.16	2.16	2.18	2.17															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
 Humidity:65.0%
 Test Distance:8.800m [K=1.0000]
 Remarks: