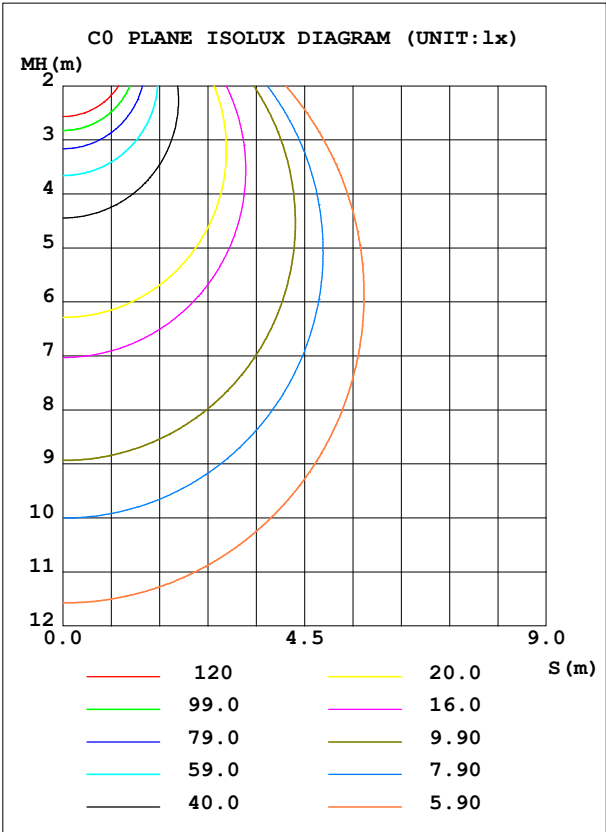
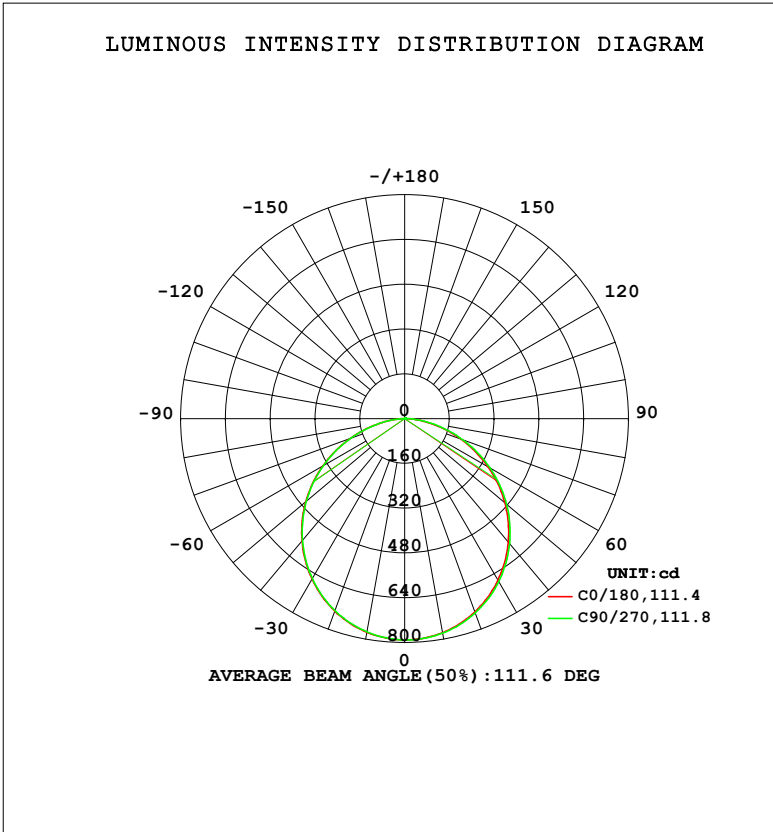


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDSN_3000K	Imax (cd)	790.5	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)	2240.7	η UP, DN (C0-180)	0.1,50.6
NOMINAL FLUX (lm)	2240.7	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:

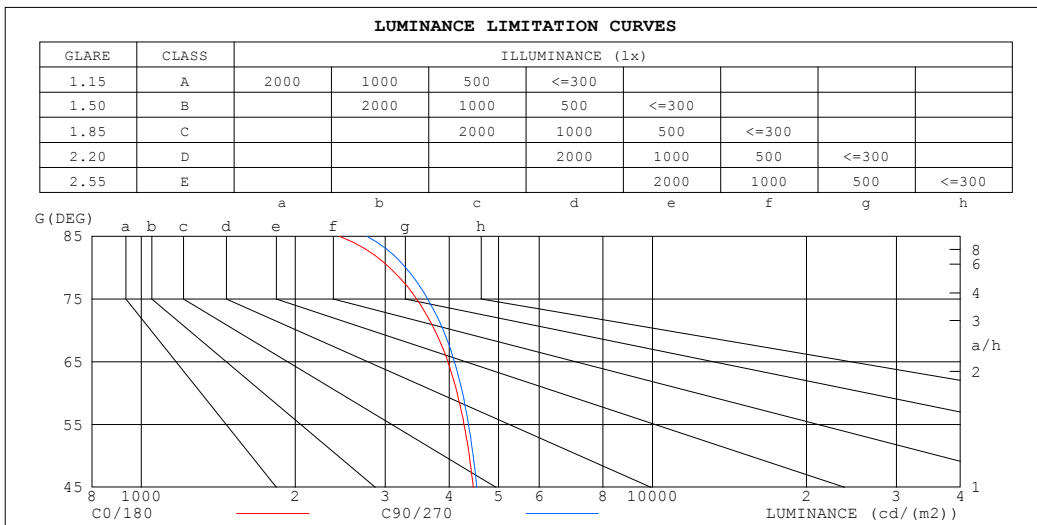
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	776.9	778.5	775.2	773.9					0- 10	74.77	74.77	3.34,3.34
20	734.7	738.5	731.6	729.6					10- 20	214.0	288.7	12.9,12.9
30	666.7	672.7	662.2	659.8					20- 30	323.7	612.5	27.3,27.3
40	576.1	583.3	570.7	568.0					30- 40	389.3	1002	44.7,44.7
50	467.6	475.3	461.1	458.3					40- 50	402.5	1404	62.7,62.7
60	344.3	352.6	337.0	334.8					50- 60	362.1	1766	78.8,78.8
70	213.1	221.3	205.4	205.1					60- 70	274.0	2040	91.1,91.1
80	88.19	94.75	81.71	81.98					70- 80	155.5	2196	98,98
90	0.0910	0.0553	0.0776	0.0831					80- 90	39.57	2235	99.8,99.8
100	0.1876	0.2322	0.2932	0.2649					90-100	0.1502	2236	99.8,99.8
110	0.4309	0.4918	0.5696	0.5631					100-110	0.3973	2236	99.8,99.8
120	0.6961	0.7624	0.8680	0.8559					110-120	0.6508	2237	99.8,99.8
130	0.9337	0.9944	1.144	1.143					120-130	0.8272	2237	99.9,99.9
140	1.138	1.199	1.393	1.403					130-140	0.9027	2238	99.9,99.9
150	1.359	1.398	1.620	1.624					140-150	0.8707	2239	99.9,99.9
160	1.613	1.619	1.830	1.806					150-160	0.7412	2240	100,100
170	1.857	1.911	2.045	1.977					160-170	0.5158	2241	100,100
180	2.023	2.033	2.056	2.038					170-180	0.1902	2241	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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2440	2763
80	3058	3288
75	3456	3635
70	3753	3898
65	3979	4097
60	4146	4249
55	4278	4366
50	4381	4456
45	4462	4528

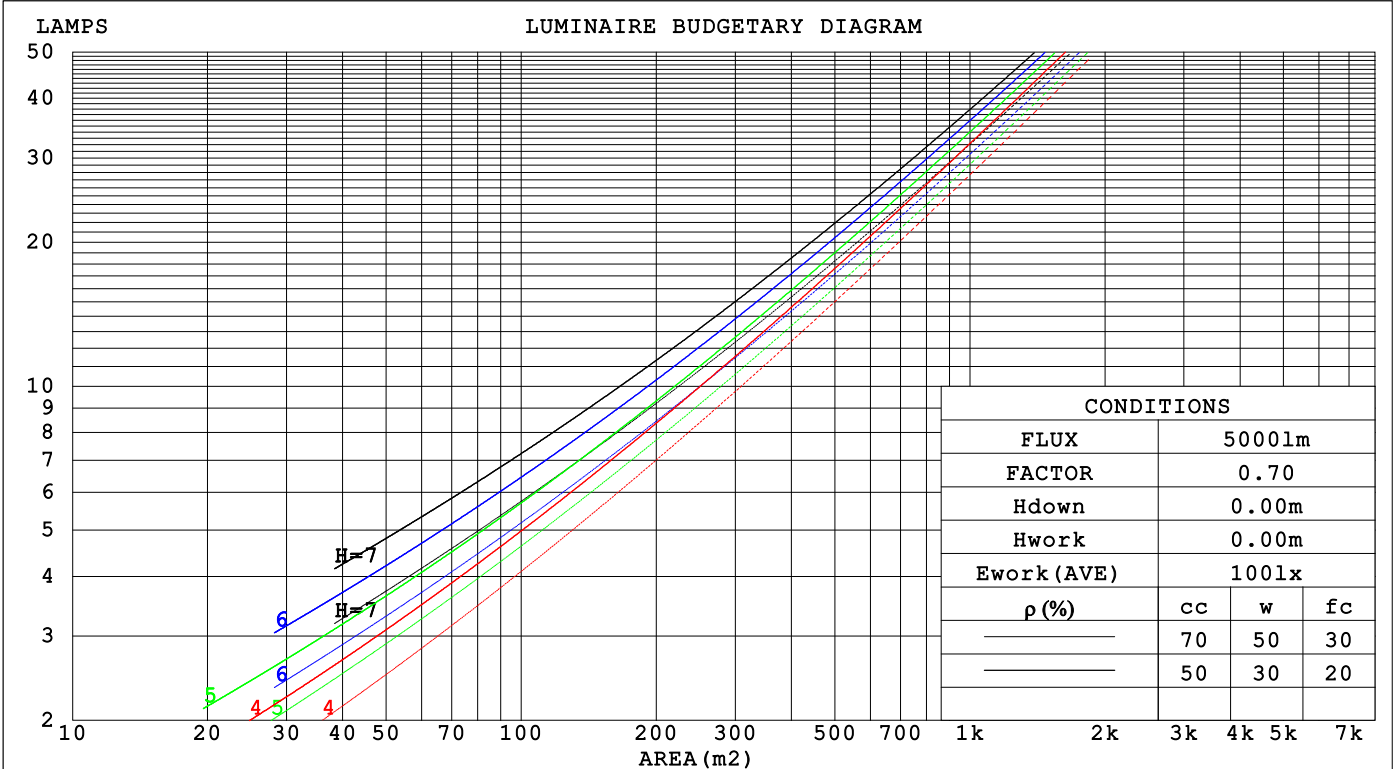
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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	.70
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	.58	.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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz		
Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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	.287	.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	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.202	.108	.032	
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	.076	.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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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	18.0	19.5	18.2	19.7	19.9	18.0	19.6	18.3	19.8	20.0
3H	19.5	20.9	19.8	21.1	21.3	19.6	21.0	19.9	21.2	21.5
4H	20.0	21.4	20.4	21.6	21.9	20.2	21.5	20.5	21.8	22.0
6H	20.5	21.7	20.8	22.0	22.3	20.6	21.9	21.0	22.2	22.5
8H	20.6	21.8	20.9	22.1	22.4	20.8	22.0	21.1	22.3	22.6
12H	20.6	21.8	21.0	22.1	22.4	20.9	22.0	21.2	22.3	22.6
4H 2H	18.6	19.9	18.9	20.2	20.4	18.6	20.0	19.0	20.2	20.5
3H	20.3	21.4	20.6	21.7	22.0	20.4	21.5	20.7	21.8	22.1
4H	21.0	22.0	21.4	22.4	22.7	21.1	22.2	21.5	22.5	22.8
6H	21.5	22.5	21.9	22.8	23.2	21.7	22.6	22.1	23.0	23.4
8H	21.7	22.6	22.1	22.9	23.3	21.9	22.8	22.3	23.1	23.5
12H	21.8	22.6	22.2	23.0	23.4	22.0	22.8	22.4	23.2	23.6
8H 4H	21.2	22.1	21.7	22.5	22.9	21.4	22.2	21.8	22.6	23.0
6H	21.9	22.7	22.4	23.1	23.5	22.1	22.8	22.5	23.2	23.7
8H	22.2	22.8	22.7	23.3	23.7	22.4	23.0	22.8	23.4	23.9
12H	22.4	22.9	22.8	23.4	23.9	22.6	23.1	23.0	23.6	24.1
12H 4H	21.3	22.1	21.7	22.5	22.9	21.4	22.2	21.8	22.6	23.0
6H	22.0	22.6	22.5	23.1	23.5	22.1	22.8	22.6	23.2	23.7
8H	22.3	22.8	22.8	23.3	23.8	22.5	23.0	22.9	23.5	23.9

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.2 / - 0.2	+ 0.1 / - 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, 2241 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.8)
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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

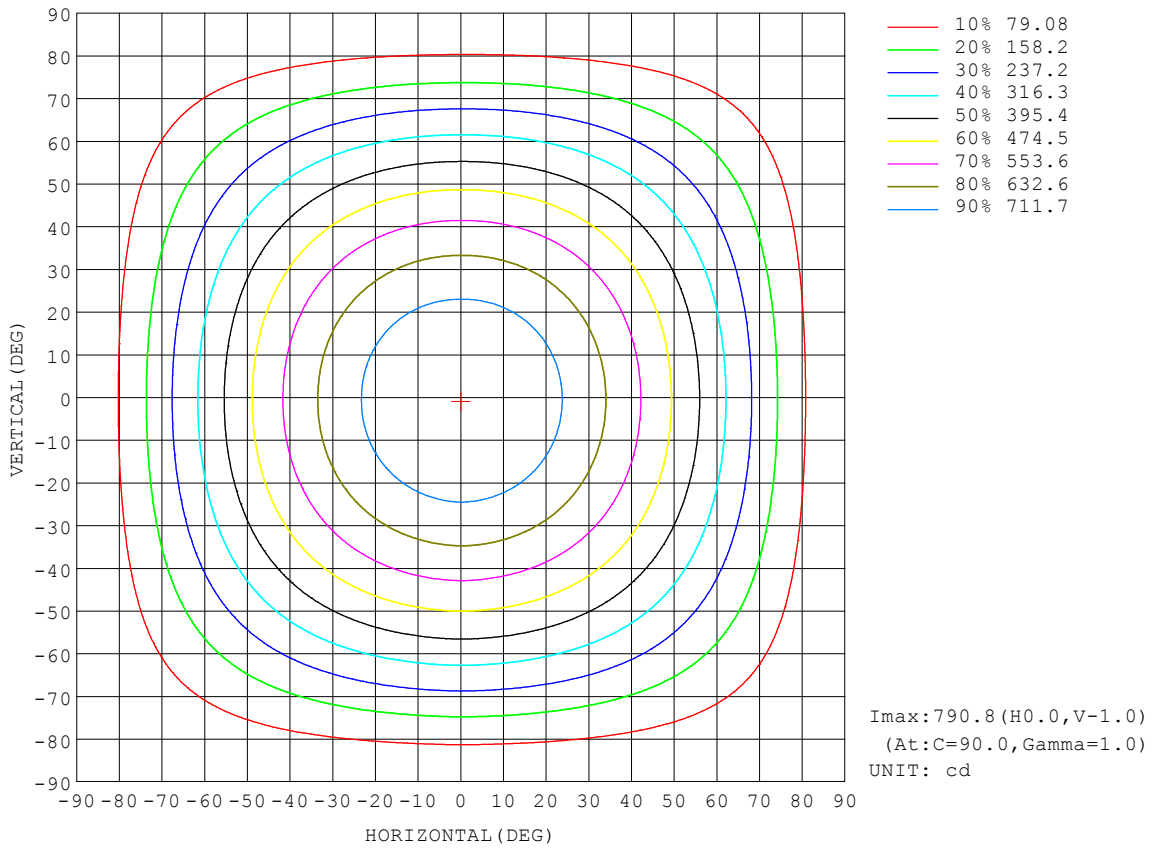
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

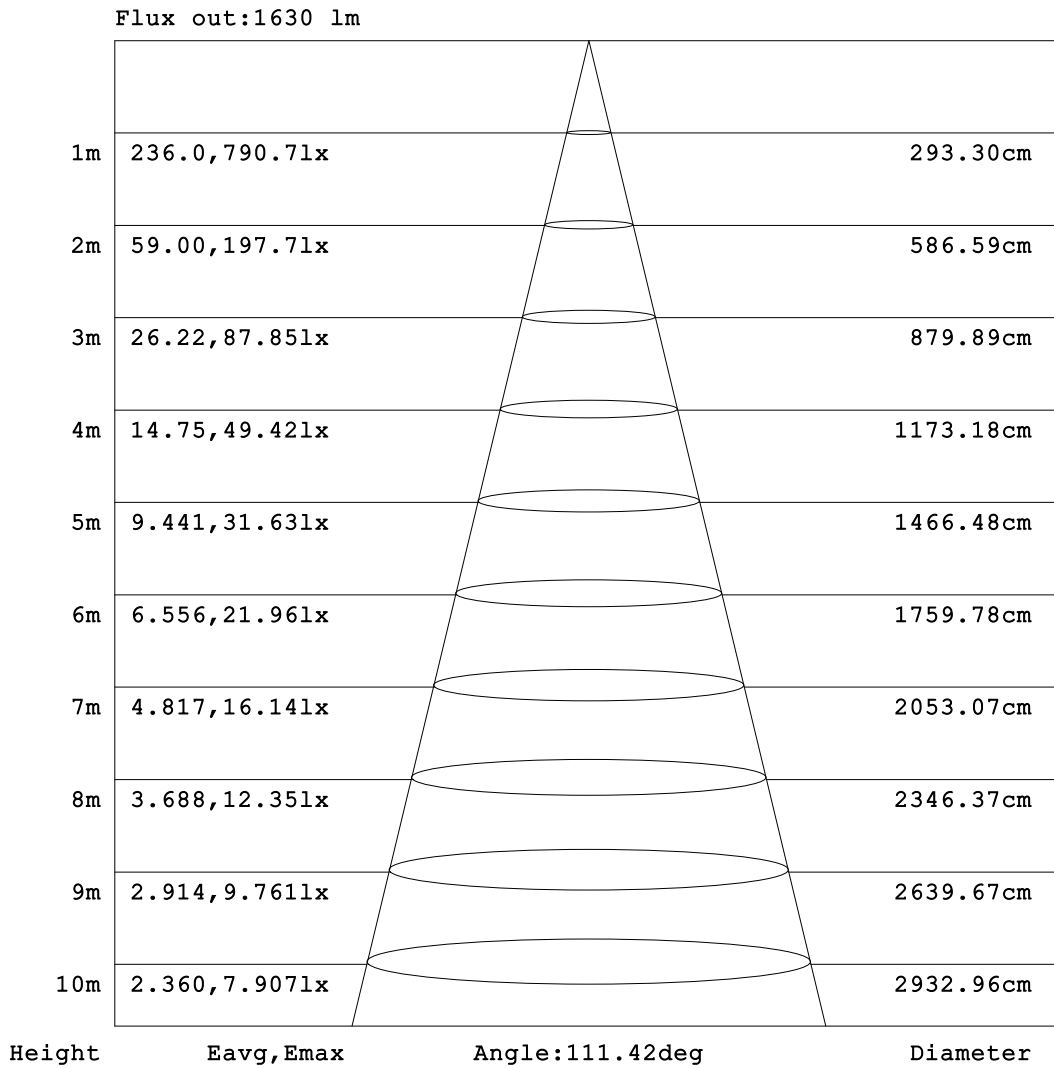


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-11-27

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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:



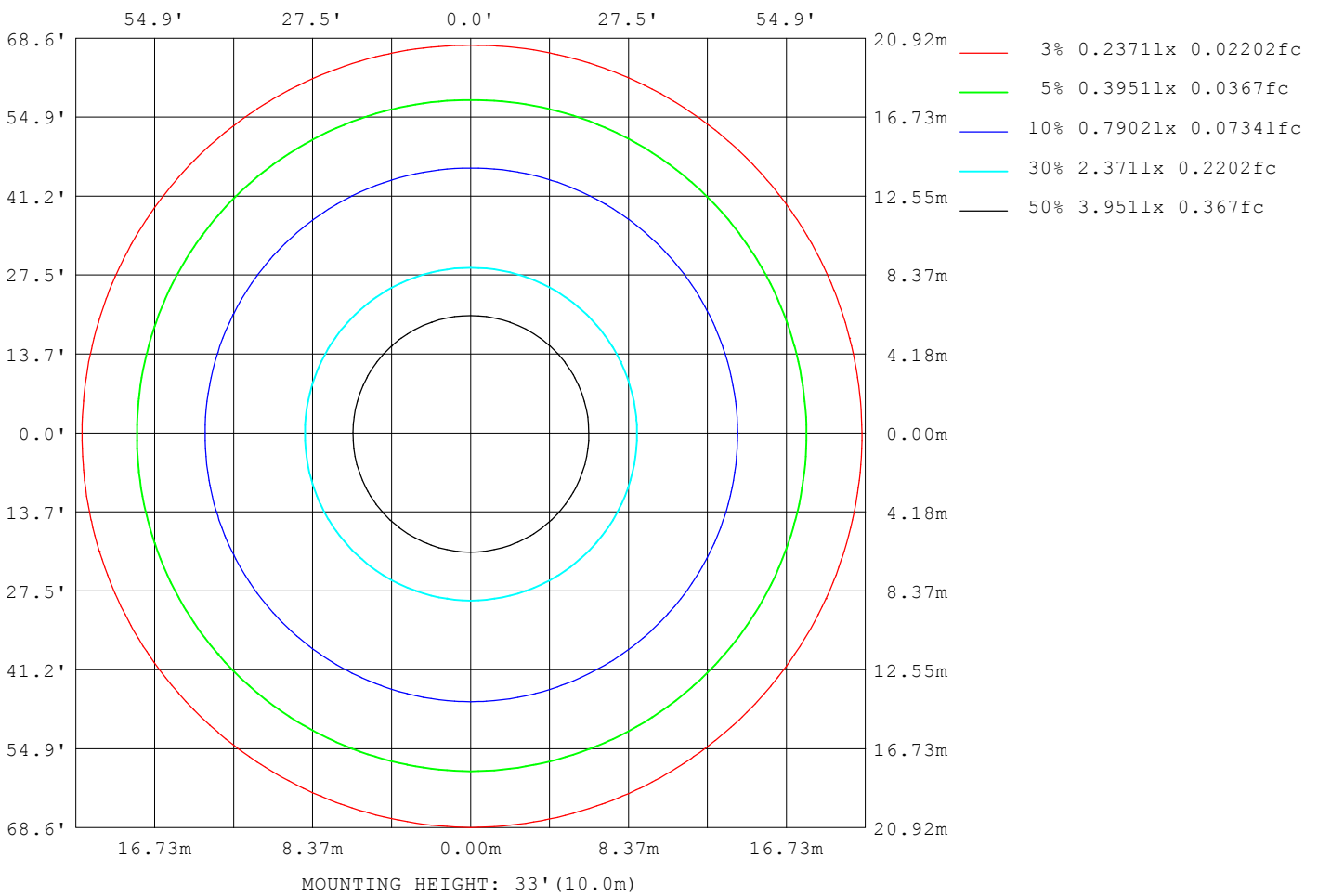
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

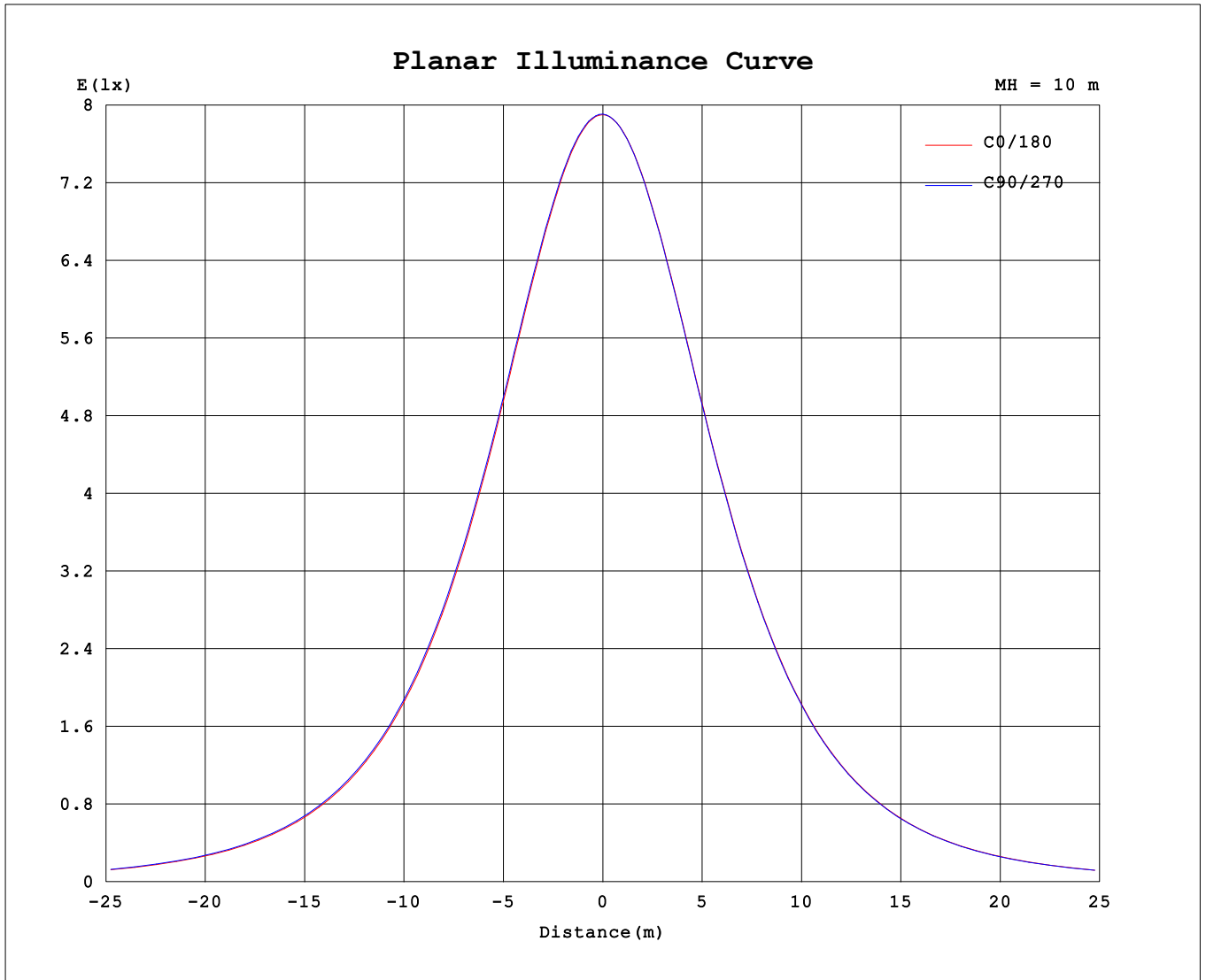
AvgL	cd/m2
L_0~180 (65) av	3925
L_0~180 (75) av	3370
L_0~180 (85) av	2268
L_90~270 (65) av	3974
L_90~270 (75) av	3465
L_90~270 (85) av	2403
L_45 (65) av	3952
L_45 (75) av	3424
L_45 (85) av	2342

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:119.96V I:0.2604A P:30.948W PF:0.9909 Freq:49.99Hz Lamp Flux:2240.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	790	790	790	790															
5	787	788	786	786															
10	777	779	775	774															
15	759	762	757	755															
20	735	738	732	730															
25	704	709	700	698															
30	667	673	662	660															
35	624	631	619	616															
40	576	583	571	568															
45	524	531	518	515															
50	468	475	461	458															
55	407	416	401	398															
60	344	353	337	335															
65	279	287	271	270															
70	213	221	205	205															
75	149	156	141	142															
80	88.2	94.8	81.7	82.0															
85	35.3	40.0	30.3	29.6															
90	0.09	0.06	0.08	0.08															
95	0.08	0.13	0.17	0.13															
100	0.19	0.23	0.29	0.26															
105	0.30	0.36	0.43	0.40															
110	0.43	0.49	0.57	0.56															
115	0.57	0.64	0.72	0.71															
120	0.70	0.76	0.87	0.86															
125	0.81	0.88	1.01	1.00															
130	0.93	0.99	1.14	1.14															
135	1.04	1.09	1.28	1.29															
140	1.14	1.20	1.39	1.40															
145	1.24	1.29	1.51	1.51															
150	1.36	1.40	1.62	1.62															
155	1.48	1.51	1.73	1.72															
160	1.61	1.62	1.83	1.81															
165	1.75	1.75	1.94	1.90															
170	1.86	1.91	2.05	1.98															
175	1.96	2.02	2.05	2.02															
180	2.02	2.03	2.06	2.04															

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: