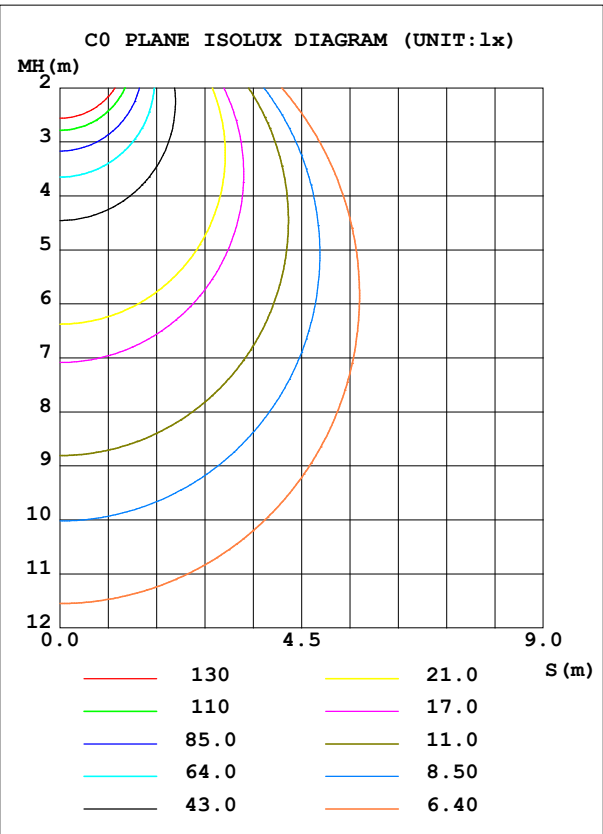
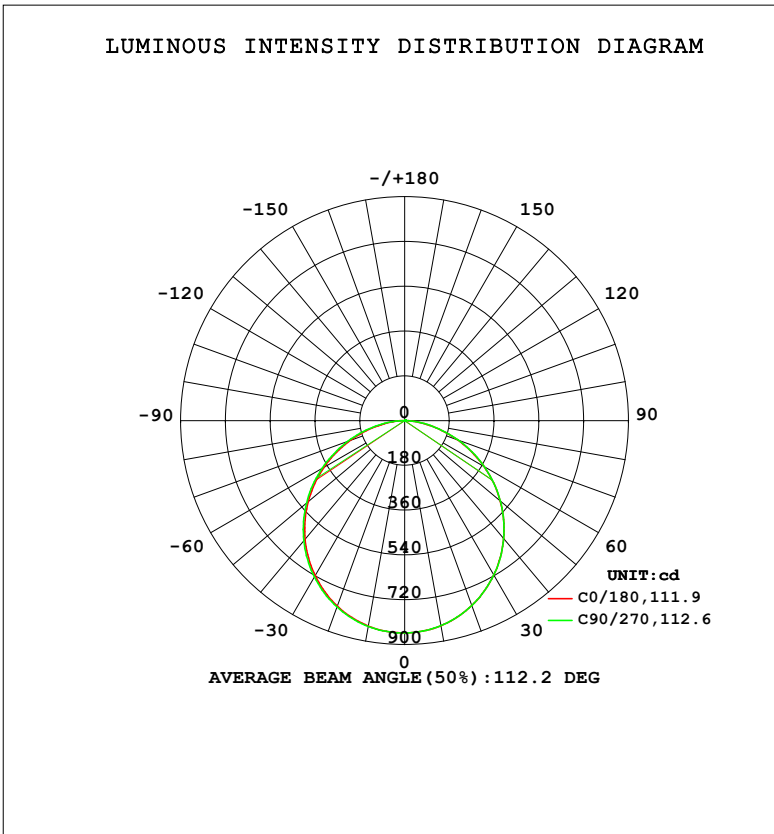


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDWH_4000K	Imax (cd)	853.5	S/MH (C0/180)	1.25
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2438.8	η UP, DN (C0-180)	0.1,49.4
NOMINAL FLUX (lm)	2438.83	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,50.4
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:2025-11-26

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:

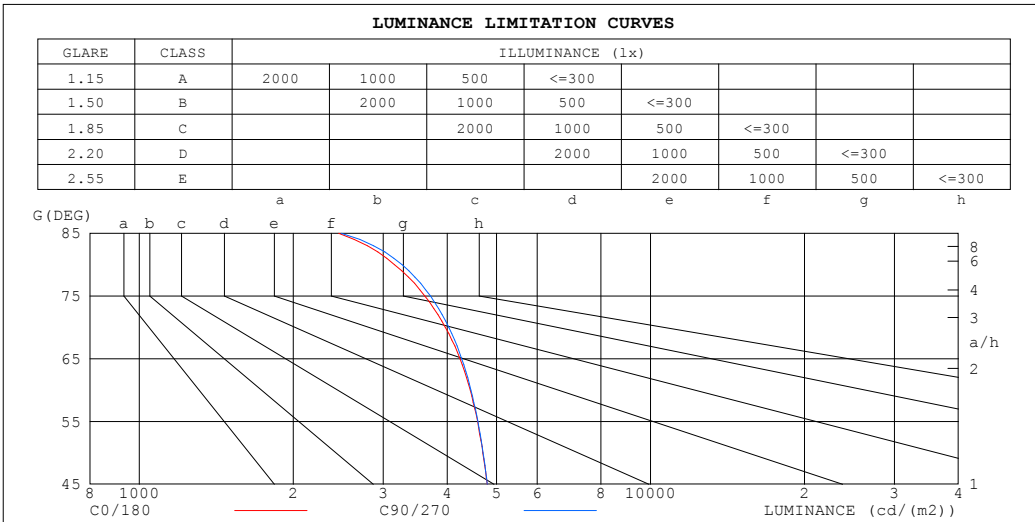
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	837.3	836.8	838.3	840.1					0- 10	80.73	80.73	3.31,3.31
20	790.7	790.3	792.9	796.5					10- 20	231.1	311.9	12.8,12.8
30	716.9	717.0	719.9	725.9					20- 30	350.0	661.9	27.1,27.1
40	618.7	619.3	623.0	630.7					30- 40	421.7	1084	44.4,44.4
50	501.5	502.1	506.5	515.2					40- 50	437.1	1521	62.4,62.4
60	368.3	369.5	374.0	383.3					50- 60	394.6	1915	78.5,78.5
70	225.4	228.9	231.7	242.9					60- 70	300.2	2215	90.8,90.8
80	90.96	94.07	96.31	106.4					70- 80	172.0	2387	97.9,97.9
90	0.1121	0.0996	0.1216	0.4751					80- 90	45.54	2433	99.8,99.8
100	0.2428	0.3262	0.3484	0.2925					90-100	0.2060	2433	99.8,99.8
110	0.5191	0.6079	0.6523	0.6074					100-110	0.4725	2434	99.8,99.8
120	0.8009	0.9007	0.9727	0.9279					110-120	0.7404	2434	99.8,99.8
130	1.055	1.149	1.266	1.226					120-130	0.9282	2435	99.9,99.9
140	1.265	1.359	1.531	1.491					130-140	1.001	2436	99.9,99.9
150	1.458	1.536	1.757	1.735					140-150	0.9493	2437	99.9,99.9
160	1.669	1.746	1.967	1.983					150-160	0.7977	2438	100,100
170	1.873	1.917	2.210	2.199					160-170	0.5493	2439	100,100
180	2.188	2.171	2.238	2.221					170-180	0.2008	2439	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:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2454	2485
80	3155	3264
75	3618	3710
70	3969	4031
65	4240	4271
60	4437	4452
55	4587	4595
50	4699	4706
45	4791	4795

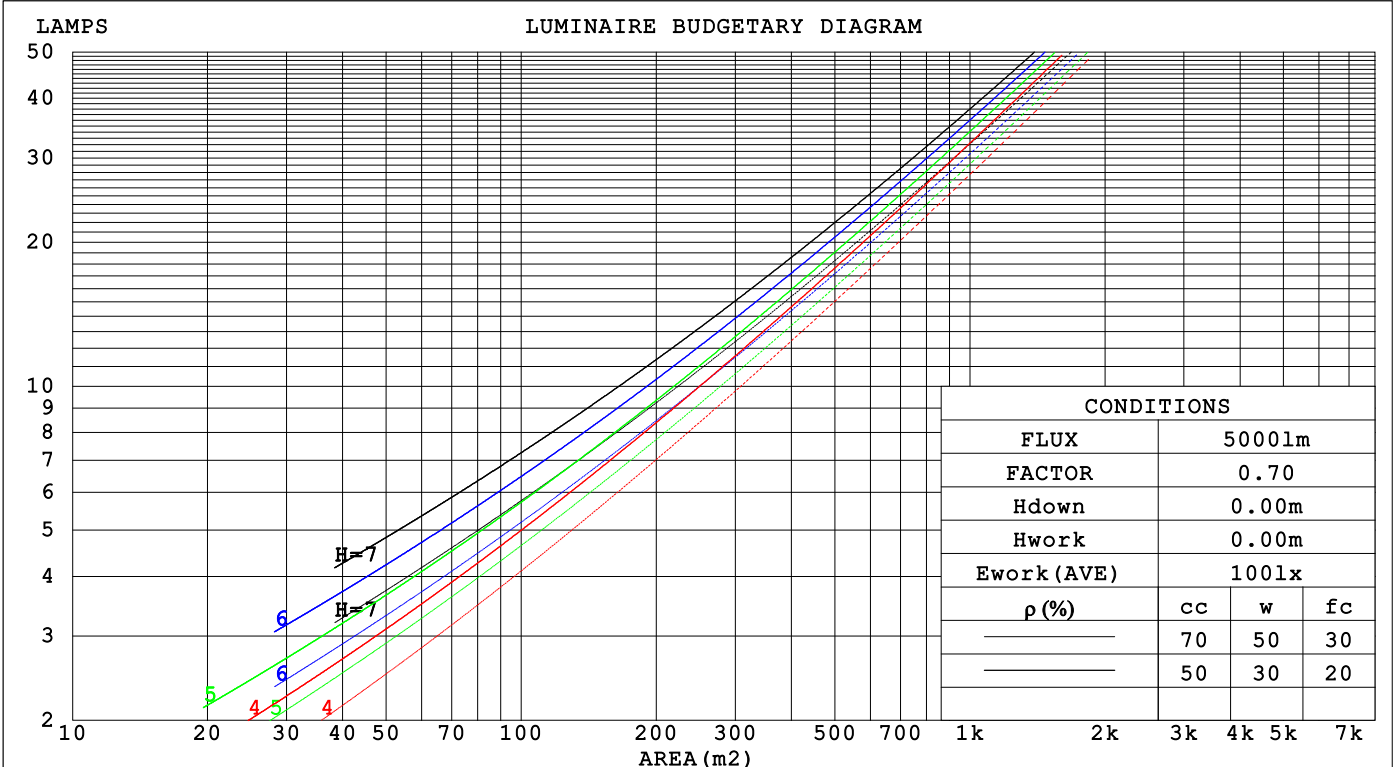
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	
ρfc	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	.87	.86	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.78	.75	.72	.69
3.0	.79	.71	.64	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.60	.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	.55	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.37
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	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz		
Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
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	.310	.176	.056	.303	.173	.055	.289	.166	.053	.277	.160	.051	.266	.154	.050	
2.0	.292	.160	.049	.286	.157	.048	.274	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.130	.038	.244	.128	.038	.235	.125	.037	.226	.122	.037	.218	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.108	.033	
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.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	.011	
3.0	.166	.116	.076	.143	.100	.066	.098	.070	.046	.057	.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	.090	.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	.042	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz										
Lamp Flux:2438.83x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.: 4000K				
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	18.1	19.6	18.4	19.8	20.1	18.1	19.6	18.4	19.9	20.1
3H	19.6	21.0	19.9	21.2	21.5	19.6	21.0	19.9	21.3	21.5
4H	20.2	21.5	20.5	21.7	22.0	20.2	21.5	20.5	21.8	22.1
6H	20.5	21.8	20.9	22.1	22.4	20.6	21.9	21.0	22.2	22.4
8H	20.7	21.9	21.0	22.2	22.5	20.7	22.0	21.1	22.2	22.5
12H	20.7	21.9	21.1	22.2	22.5	20.8	22.0	21.1	22.3	22.6
4H 2H	18.7	20.1	19.0	20.3	20.6	18.7	20.1	19.0	20.3	20.6
3H	20.4	21.5	20.7	21.8	22.2	20.4	21.6	20.8	21.9	22.2
4H	21.1	22.1	21.4	22.5	22.8	21.1	22.2	21.5	22.5	22.8
6H	21.6	22.5	22.0	22.9	23.3	21.6	22.6	22.0	22.9	23.3
8H	21.7	22.6	22.2	23.0	23.4	21.8	22.7	22.2	23.1	23.5
12H	21.8	22.6	22.3	23.0	23.4	21.9	22.7	22.3	23.1	23.5
8H 4H	21.3	22.2	21.7	22.6	23.0	21.4	22.2	21.8	22.6	23.0
6H	22.0	22.7	22.4	23.1	23.5	22.0	22.8	22.5	23.2	23.6
8H	22.2	22.9	22.7	23.3	23.7	22.3	22.9	22.7	23.4	23.8
12H	22.4	22.9	22.8	23.4	23.9	22.4	23.0	22.9	23.5	23.9
12H 4H	21.3	22.1	21.8	22.5	22.9	21.4	22.2	21.8	22.6	23.0
6H	22.0	22.7	22.5	23.1	23.6	22.1	22.7	22.5	23.2	23.6
8H	22.3	22.9	22.8	23.3	23.8	22.4	22.9	22.8	23.4	23.9
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, 2439 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.1)
 Area: 0.166 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:8.800m [K=1.0000]
Test Date:2025-11-26	Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

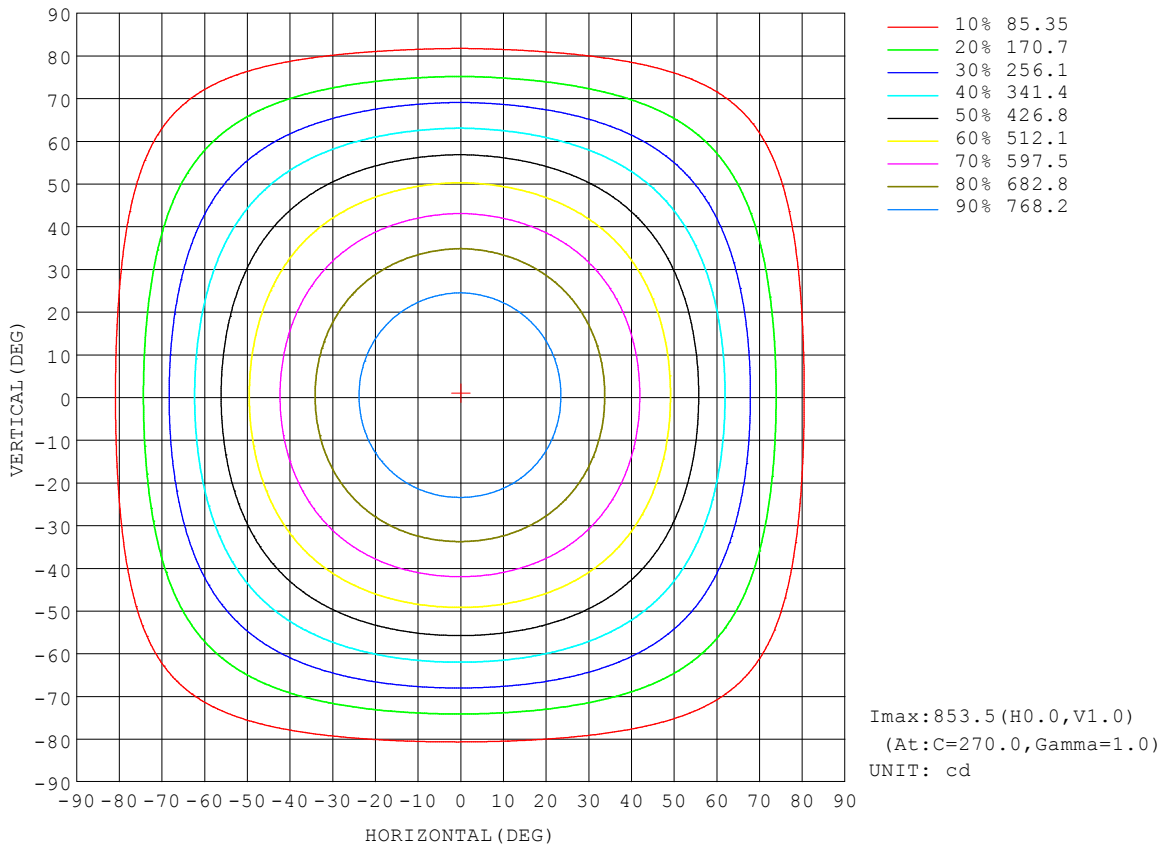
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	81	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	104	99	94	99	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:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

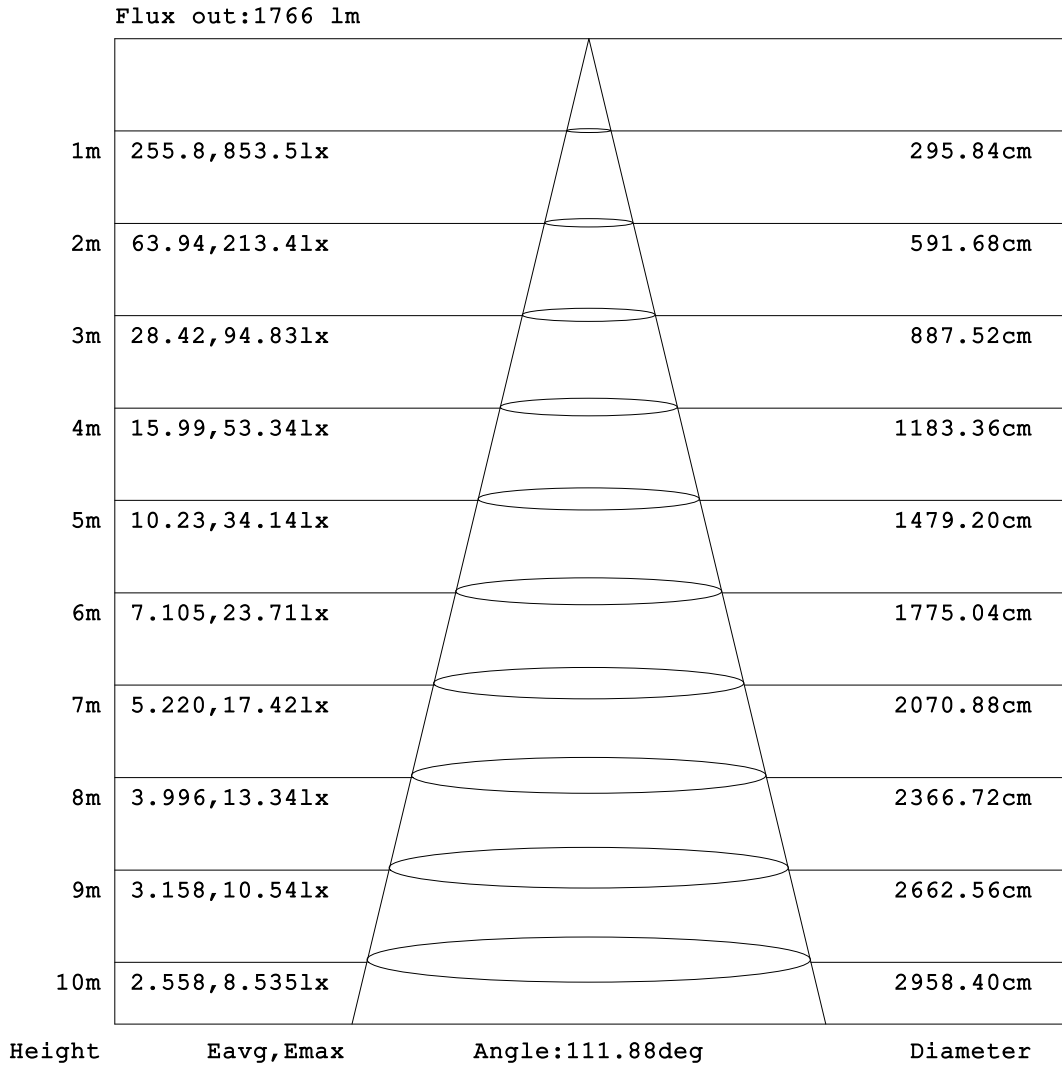


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:



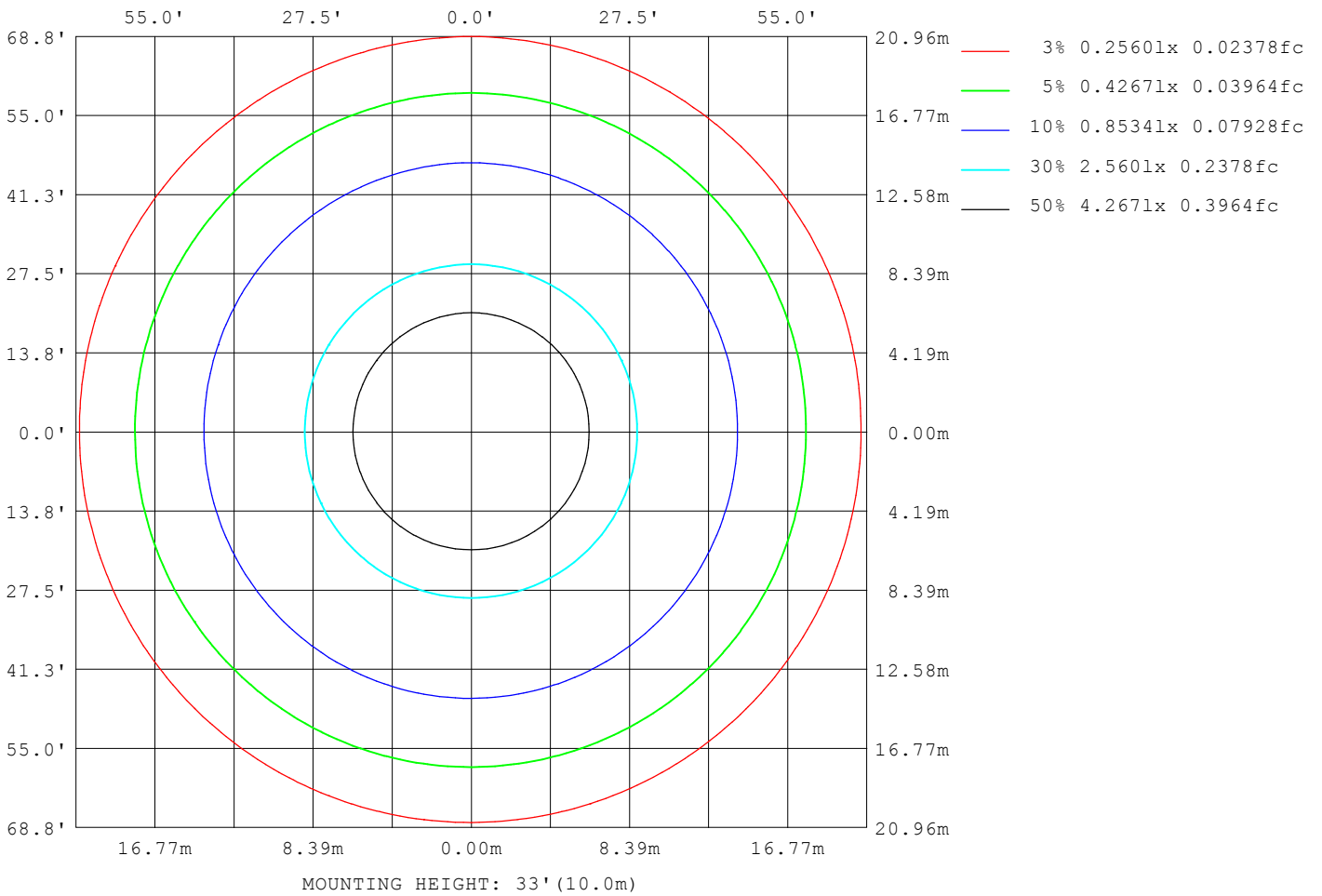
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

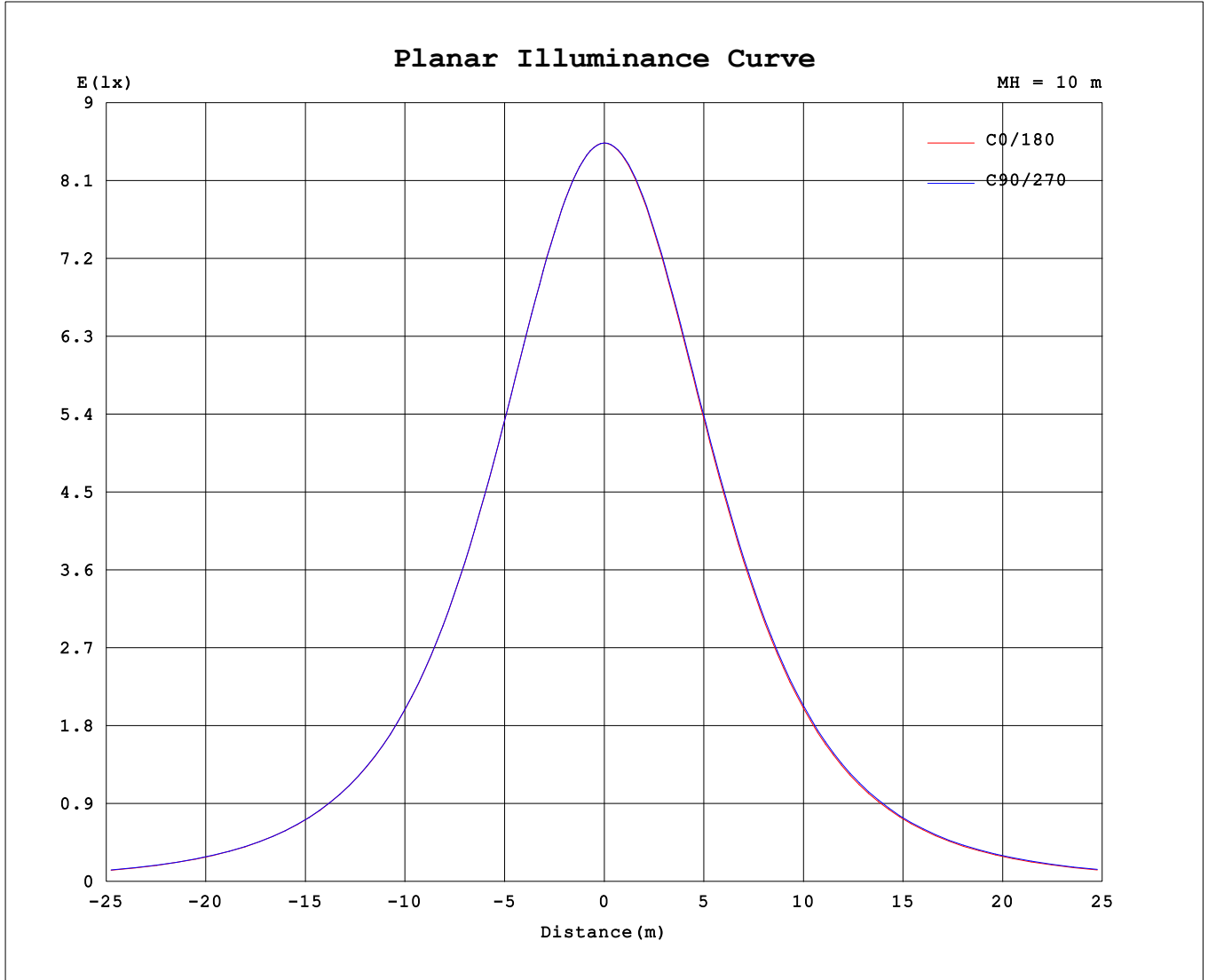
AvgL	cd/m2
L_0~180 (65) av	4283
L_0~180 (75) av	3690
L_0~180 (85) av	2580
L_90~270 (65) av	4369
L_90~270 (75) av	3865
L_90~270 (85) av	2851
L_45 (65) av	4340
L_45 (75) av	3804
L_45 (85) av	2757

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-11-26

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:2025-11-26

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:120.03V I:0.2571A P:30.432W PF:0.9863 Freq:59.98Hz Lamp Flux:2438.83x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	853	853	853	853															
5	849	849	850	850															
10	837	837	838	840															
15	818	817	819	822															
20	791	790	793	797															
25	757	757	760	765															
30	717	717	720	726															
35	671	671	674	681															
40	619	619	623	631															
45	562	563	567	575															
50	501	502	506	515															
55	437	437	442	451															
60	368	369	374	383															
65	297	300	304	313															
70	225	229	232	243															
75	155	159	162	173															
80	91.0	94.1	96.3	106															
85	35.5	35.9	39.2	46.5															
90	0.11	0.10	0.12	0.48															
95	0.13	0.20	0.22	0.15															
100	0.24	0.33	0.35	0.29															
105	0.39	0.46	0.50	0.44															
110	0.52	0.61	0.65	0.61															
115	0.67	0.75	0.80	0.77															
120	0.80	0.90	0.97	0.93															
125	0.93	1.02	1.12	1.08															
130	1.06	1.15	1.27	1.23															
135	1.17	1.27	1.40	1.36															
140	1.27	1.36	1.53	1.49															
145	1.36	1.44	1.65	1.62															
150	1.46	1.54	1.76	1.73															
155	1.56	1.64	1.86	1.85															
160	1.67	1.75	1.97	1.98															
165	1.77	1.83	2.08	2.11															
170	1.87	1.92	2.21	2.20															
175	1.97	2.03	2.29	2.22															
180	2.19	2.17	2.24	2.22															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-26

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: