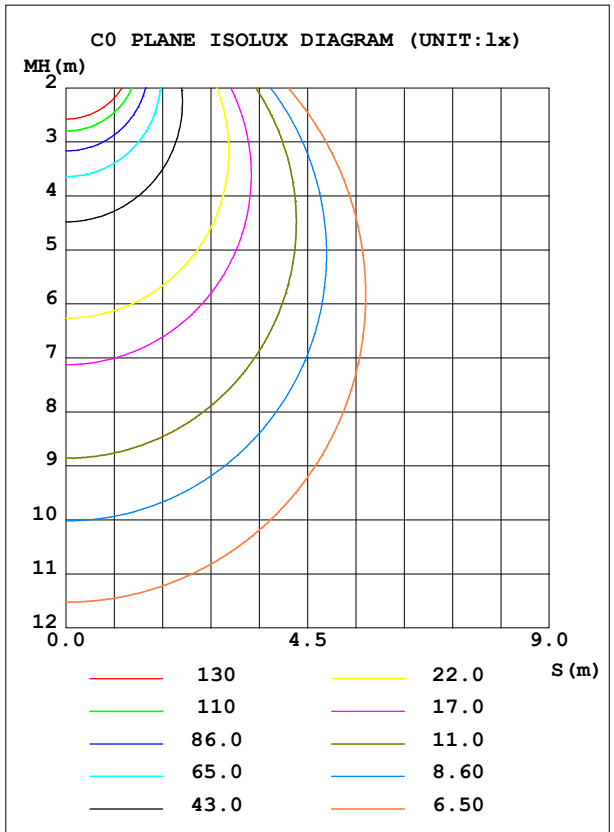
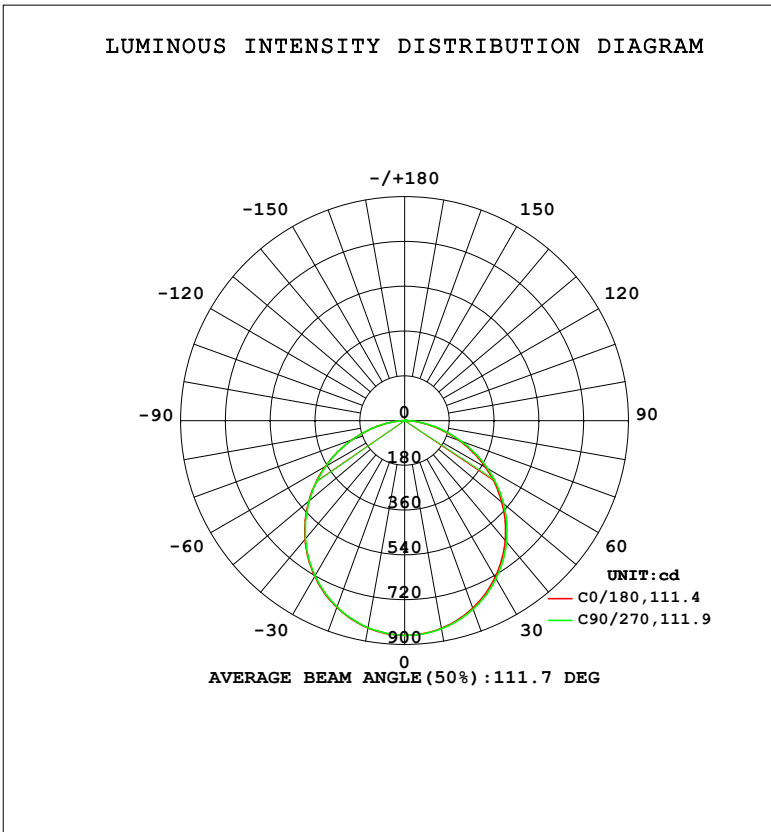


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDSN_4000K	Imax (cd)	862.8	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)	2446.4	$\eta$ UP, DN (C0-180)	0.1,50.6
NOMINAL FLUX (lm)	2446.44	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.1,49.2
LAMPS INSIDE	1	$\eta$ up (%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	$\eta$ 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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:

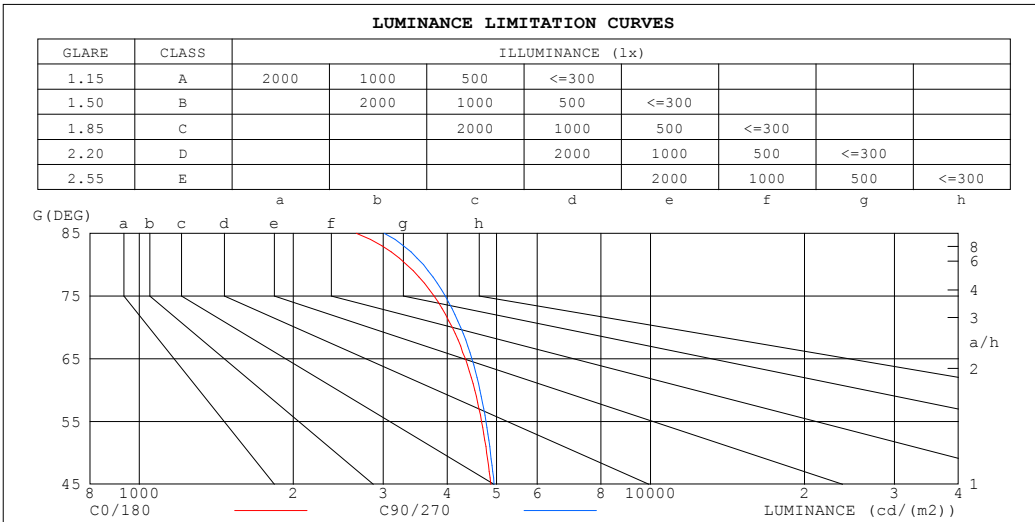
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	847.7	849.6	846.1	844.7					0- 10	81.60	81.60	3.34,3.34
20	801.8	805.9	798.6	796.3					10- 20	233.5	315.1	12.9,12.9
30	727.6	734.0	722.9	720.2					20- 30	353.3	668.4	27.3,27.3
40	628.9	636.9	623.2	620.1					30- 40	425.0	1093	44.7,44.7
50	510.2	519.0	503.5	500.4					40- 50	439.5	1533	62.7,62.7
60	376.0	384.9	368.3	365.8					50- 60	395.4	1928	78.8,78.8
70	232.4	241.5	224.5	223.9					60- 70	299.2	2228	91.1,91.1
80	96.03	103.7	89.44	89.56					70- 80	169.8	2397	98,98
90	0.0981	0.0664	0.0832	0.0888					80- 90	43.22	2441	99.8,99.8
100	0.2098	0.2709	0.3208	0.3036					90-100	0.1722	2441	99.8,99.8
110	0.4860	0.5528	0.6303	0.6295					100-110	0.4474	2441	99.8,99.8
120	0.7732	0.8401	0.9507	0.9611					110-120	0.7228	2442	99.8,99.8
130	1.027	1.094	1.260	1.270					120-130	0.9152	2443	99.9,99.9
140	1.254	1.310	1.542	1.552					130-140	0.9952	2444	99.9,99.9
150	1.492	1.536	1.785	1.779					140-150	0.9588	2445	99.9,99.9
160	1.746	1.774	2.006	2.000					150-160	0.8120	2446	100,100
170	2.033	2.078	2.243	2.171					160-170	0.5651	2446	100,100
180	2.232	2.243	2.265	2.238					170-180	0.2091	2446	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 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	2656	3010
80	3331	3596
75	3773	3966
70	4093	4254
65	4342	4471
60	4530	4637
55	4672	4767
50	4782	4864
45	4871	4943

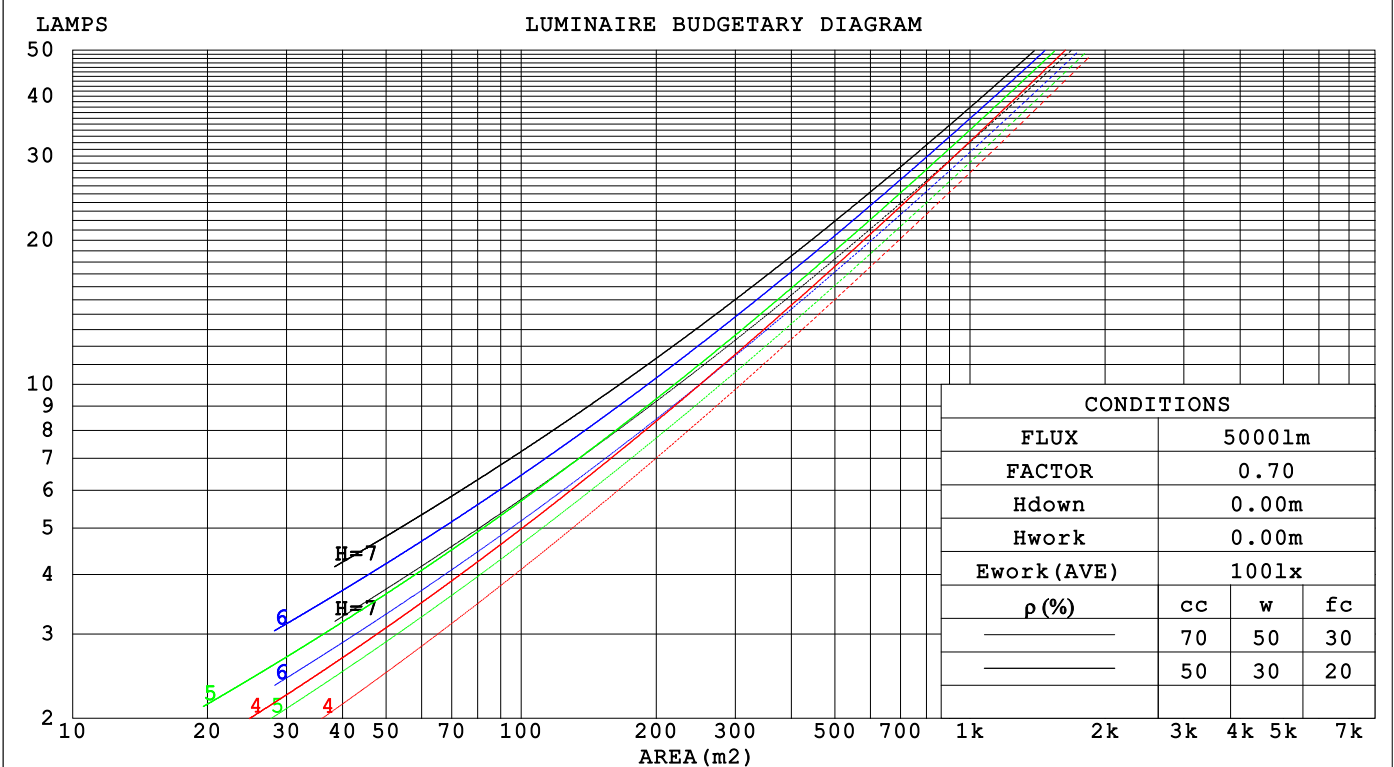
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-27

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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	

$\rho_{CC}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 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	18.3	19.8	18.5	20.0	20.2	18.3	19.9	18.6	20.1	20.3
3H	19.8	21.2	20.1	21.4	21.6	19.9	21.3	20.2	21.5	21.8
4H	20.3	21.7	20.7	21.9	22.2	20.5	21.8	20.8	22.1	22.3
6H	20.8	22.0	21.1	22.3	22.6	20.9	22.2	21.3	22.5	22.8
8H	20.9	22.1	21.2	22.4	22.7	21.1	22.3	21.4	22.6	22.9
12H	20.9	22.1	21.3	22.4	22.7	21.2	22.3	21.5	22.6	22.9
4H 2H	18.9	20.2	19.2	20.5	20.7	18.9	20.3	19.3	20.5	20.8
3H	20.6	21.7	20.9	22.0	22.3	20.7	21.8	21.0	22.1	22.4
4H	21.3	22.3	21.7	22.7	23.0	21.4	22.5	21.8	22.8	23.1
6H	21.8	22.8	22.2	23.1	23.5	22.0	22.9	22.4	23.3	23.7
8H	22.0	22.9	22.4	23.2	23.6	22.2	23.1	22.6	23.4	23.8
12H	22.1	22.9	22.5	23.3	23.7	22.3	23.1	22.7	23.5	23.9
8H 4H	21.5	22.4	22.0	22.8	23.2	21.7	22.5	22.1	22.9	23.3
6H	22.2	23.0	22.7	23.4	23.8	22.4	23.1	22.8	23.5	24.0
8H	22.5	23.1	23.0	23.6	24.0	22.7	23.3	23.1	23.7	24.2
12H	22.7	23.2	23.1	23.7	24.2	22.9	23.4	23.4	23.9	24.4
12H 4H	21.6	22.4	22.0	22.8	23.2	21.7	22.5	22.1	22.9	23.3
6H	22.3	22.9	22.8	23.4	23.8	22.4	23.1	22.9	23.5	24.0
8H	22.6	23.1	23.1	23.6	24.1	22.8	23.3	23.2	23.8	24.3

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, 2446 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.1)  
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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

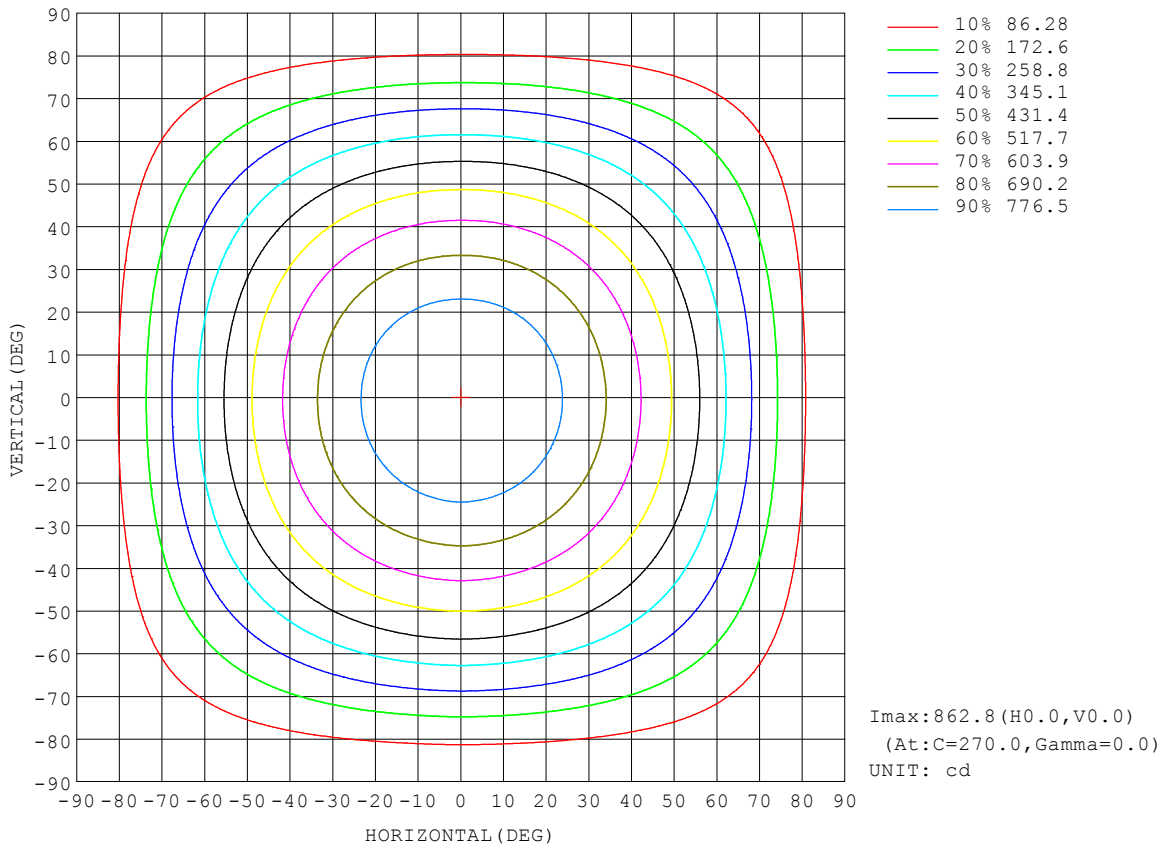
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	65	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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

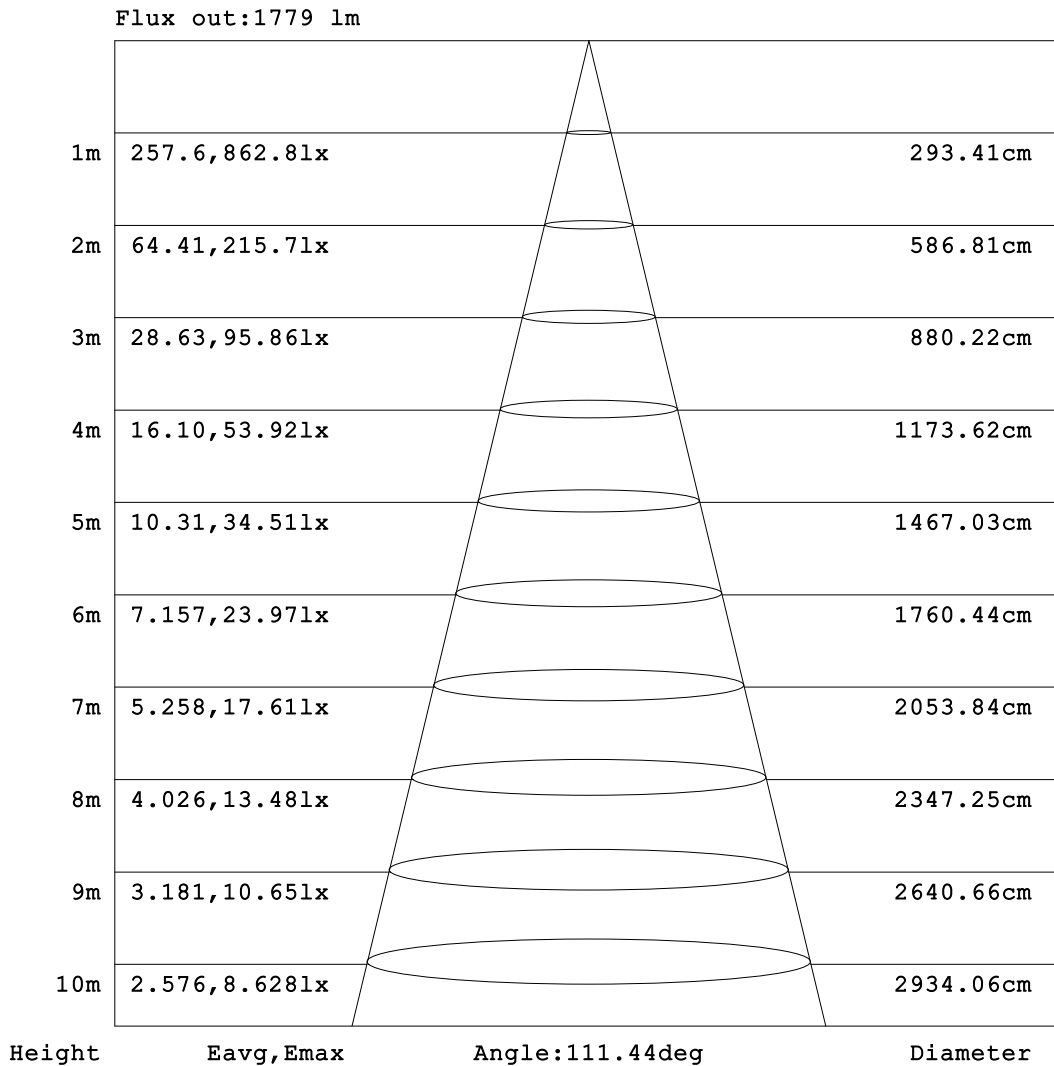


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-11-27

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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:



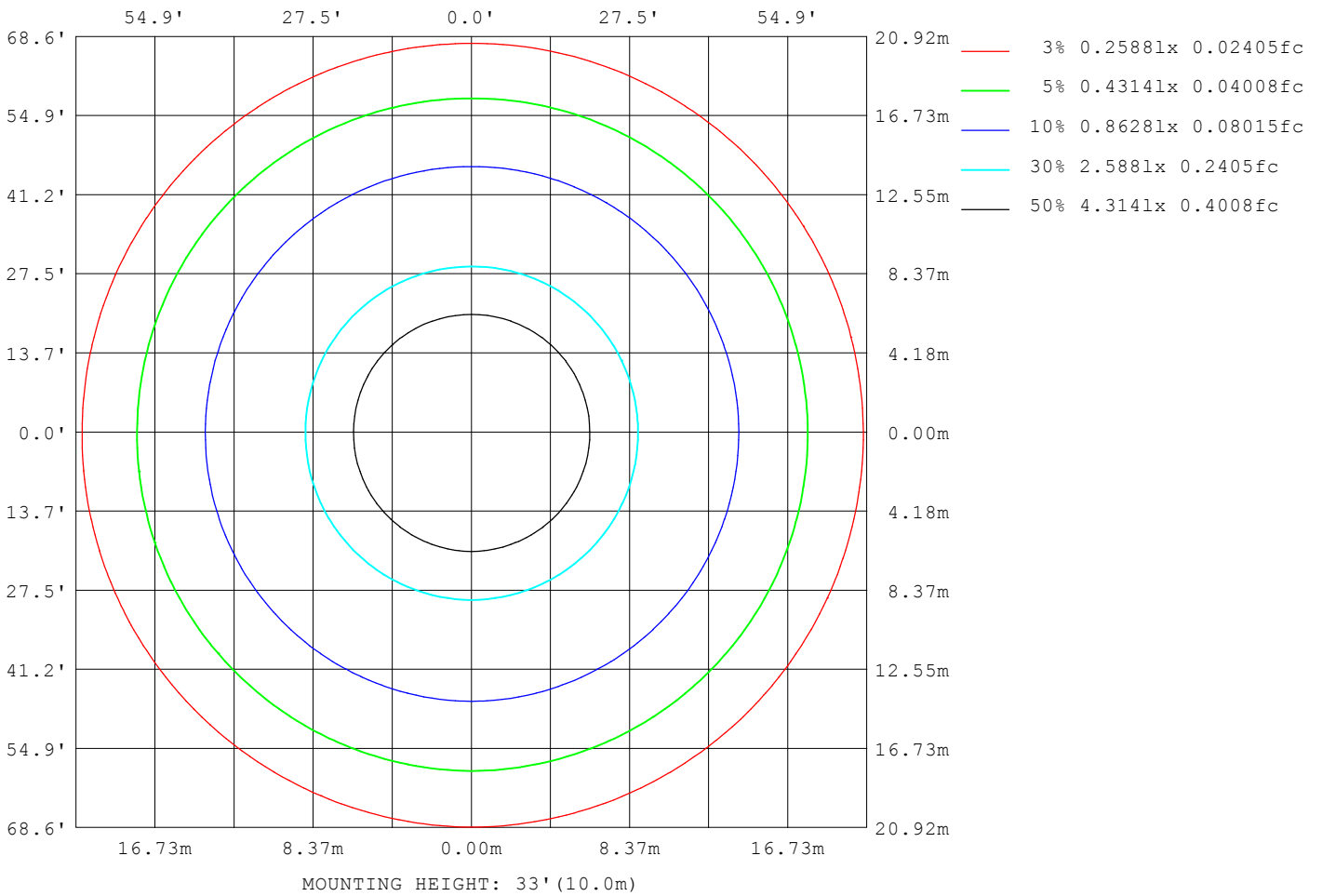
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 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:2025-11-27

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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 4000K
MFR.:	SUR.: 0.46	Shielding Angle:

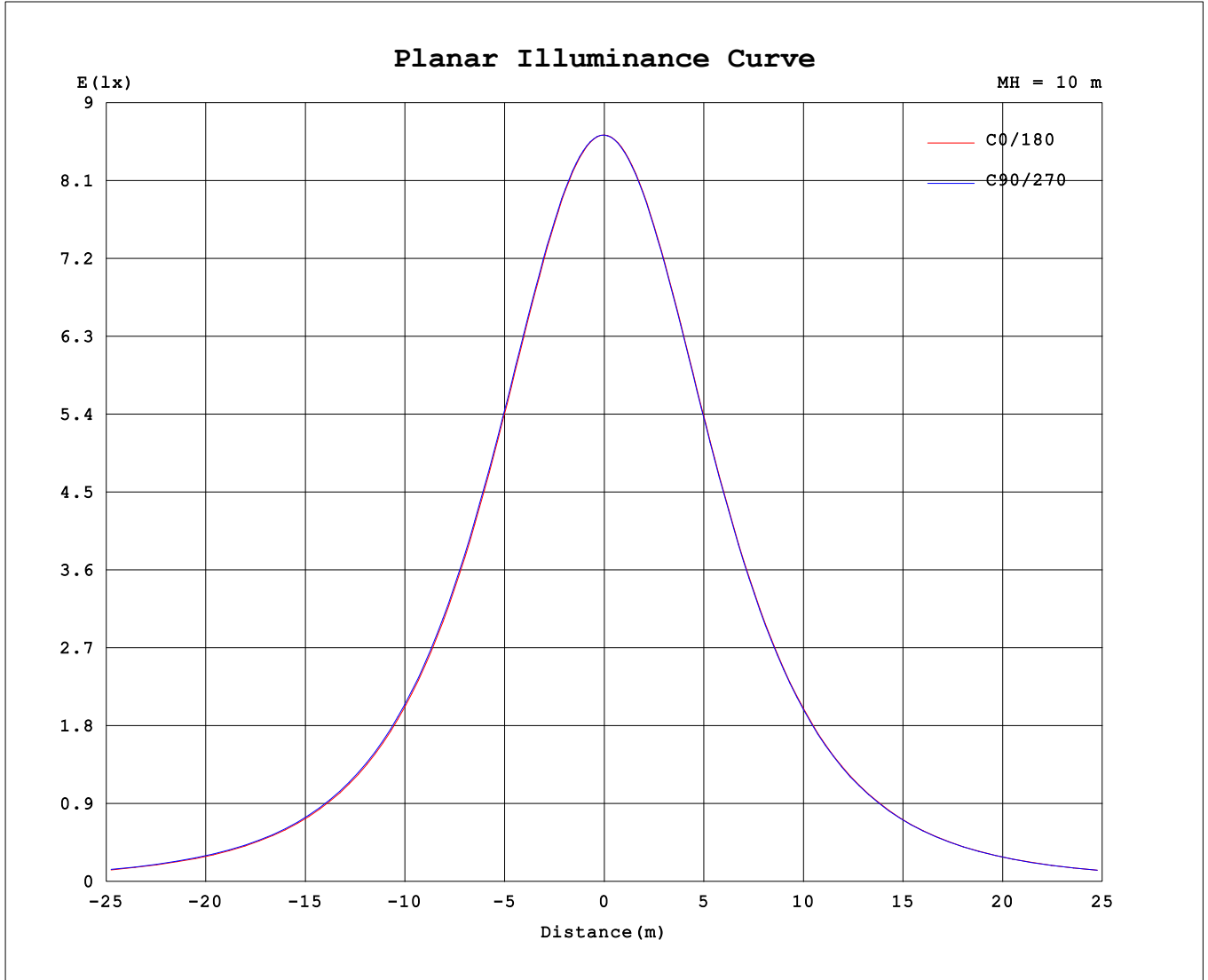
AvgL	cd/m2
L_0~180 (65) av	4286
L_0~180 (75) av	3681
L_0~180 (85) av	2478
L_90~270 (65) av	4339
L_90~270 (75) av	3782
L_90~270 (85) av	2624
L_45 (65) av	4315
L_45 (75) av	3738
L_45 (85) av	2558

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:0.2526A P:30.017W PF:0.9906 Freq:49.99Hz Lamp Flux:2446.44x1 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	863	863	863	863																
5	859	860	858	857																
10	848	850	846	845																
15	829	832	826	824																
20	802	806	799	796																
25	768	773	764	762																
30	728	734	723	720																
35	681	688	676	673																
40	629	637	623	620																
45	572	580	566	562																
50	510	519	504	500																
55	445	454	437	435																
60	376	385	368	366																
65	305	314	297	295																
70	232	242	225	224																
75	162	170	154	155																
80	96.0	104	89.4	89.6																
85	38.4	43.6	33.3	32.4																
90	0.10	0.07	0.08	0.09																
95	0.10	0.14	0.19	0.15																
100	0.21	0.27	0.32	0.30																
105	0.35	0.41	0.48	0.45																
110	0.49	0.55	0.63	0.63																
115	0.64	0.70	0.80	0.80																
120	0.77	0.84	0.95	0.96																
125	0.90	0.97	1.11	1.12																
130	1.03	1.09	1.26	1.27																
135	1.15	1.19	1.40	1.41																
140	1.25	1.31	1.54	1.55																
145	1.37	1.42	1.66	1.67																
150	1.49	1.54	1.78	1.78																
155	1.62	1.65	1.88	1.89																
160	1.75	1.77	2.01	2.00																
165	1.90	1.91	2.13	2.10																
170	2.03	2.08	2.24	2.17																
175	2.16	2.24	2.26	2.23																
180	2.23	2.24	2.27	2.24																

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: