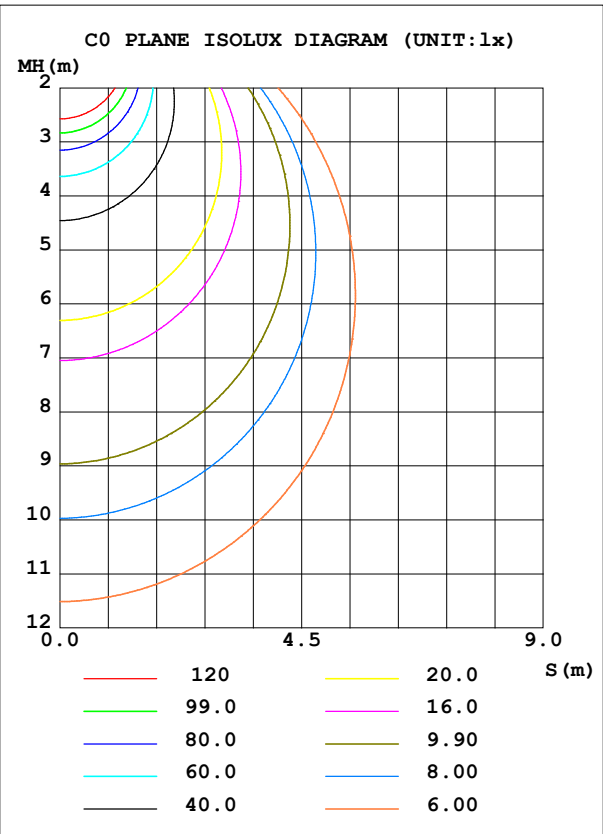
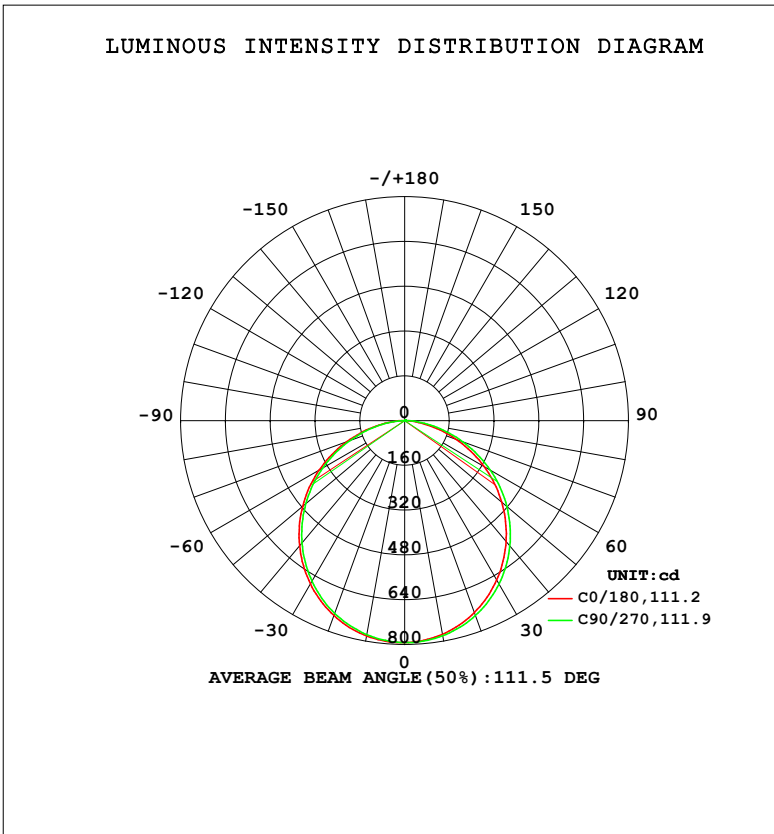


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDBK_2700K	Imax (cd)	793.1	S/MH (C0/180)	1.26
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2243.9	$\eta$ UP, DN (C0-180)	0.1,49.6
NOMINAL FLUX (lm)	2243.9	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.1,50.1
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:

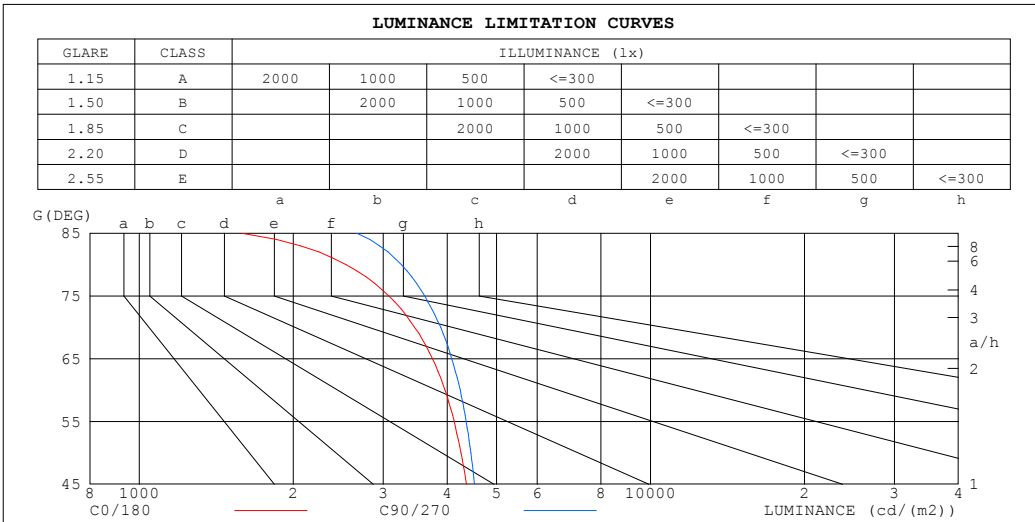
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	775.4	780.8	781.1	776.5					0- 10	74.99	74.99	3.34,3.34
20	729.2	740.6	740.6	732.2					10- 20	214.6	289.6	12.9,12.9
30	657.6	674.3	673.7	662.6					20- 30	324.6	614.2	27.4,27.4
40	564.1	584.9	584.1	570.9					30- 40	390.3	1005	44.8,44.8
50	453.1	476.4	475.9	461.0					40- 50	403.5	1408	62.7,62.7
60	328.0	353.2	352.7	337.3					50- 60	362.8	1771	78.9,78.9
70	195.7	221.3	219.9	207.2					60- 70	274.1	2045	91.1,91.1
80	72.95	94.14	92.96	83.33					70- 80	155.0	2200	98,98
90	0.0496	0.0554	0.2839	0.0833					80- 90	38.85	2239	99.8,99.8
100	0.2036	0.2330	0.2427	0.2491					90-100	0.1396	2239	99.8,99.8
110	0.4514	0.4989	0.5236	0.5538					100-110	0.3877	2239	99.8,99.8
120	0.7158	0.7594	0.8156	0.8477					110-120	0.6411	2240	99.8,99.8
130	0.9581	1.003	1.086	1.141					120-130	0.8221	2241	99.9,99.9
140	1.162	1.192	1.355	1.396					130-140	0.8977	2242	99.9,99.9
150	1.360	1.391	1.581	1.618					140-150	0.8642	2242	99.9,99.9
160	1.570	1.607	1.791	1.790					150-160	0.7329	2243	100,100
170	1.752	1.796	1.967	1.934					160-170	0.5027	2244	100,100
180	1.945	1.984	1.972	1.973					170-180	0.1809	2244	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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1588	2665
80	2538	3256
75	3076	3618
70	3457	3887
65	3746	4085
60	3964	4243
55	4129	4360
50	4259	4451
45	4362	4524

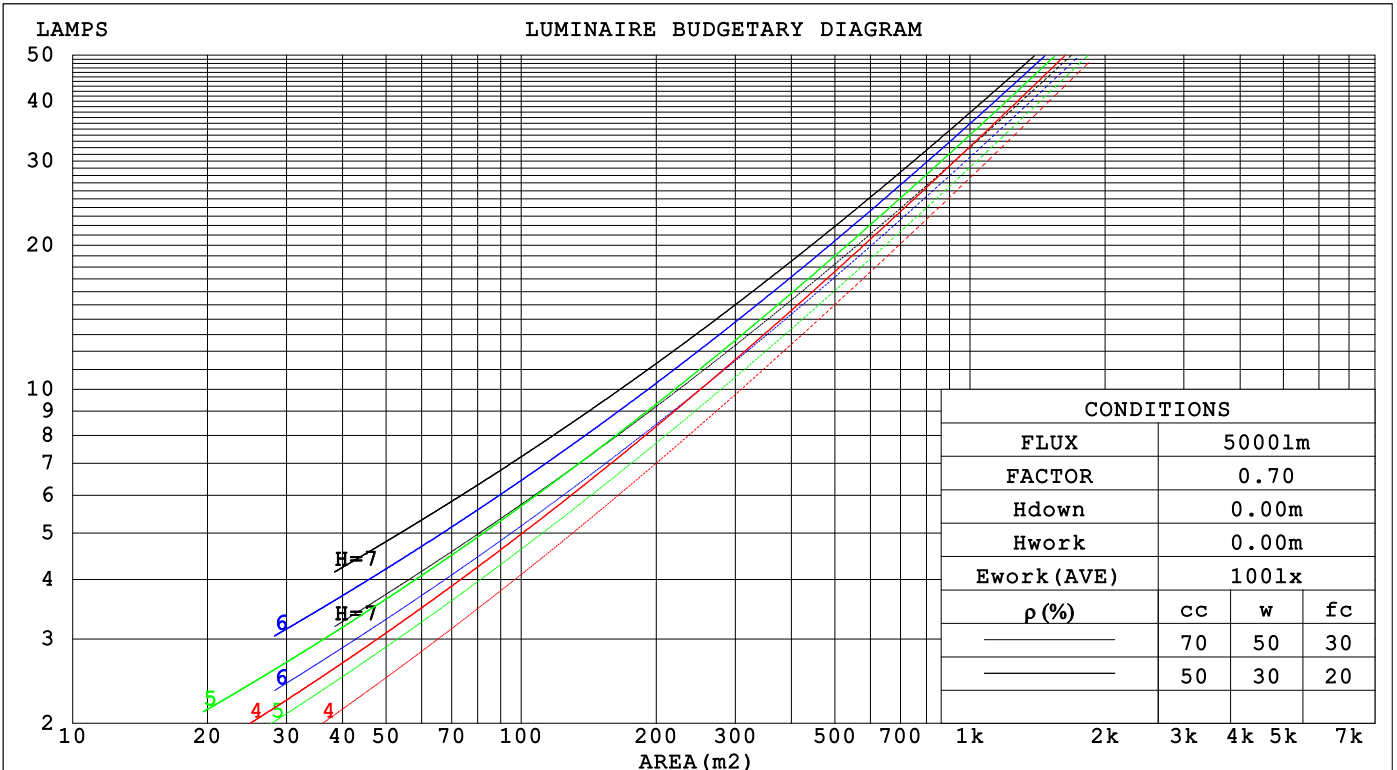
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-27

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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
	ρw	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
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	.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	.67	.62	.69	.65	.61	.59
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	.29	.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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz								
Lamp Flux:2243.9x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.: 2700K		
MFR.:			SUR.: 0.46			Shielding Angle:		

ρ <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.307	.175	.055	.300	.171	.054	.287	.165	.053	.275	.158	.051	.263	.153	.049	
2.0	.290	.159	.049	.284	.156	.048	.272	.151	.047	.261	.147	.046	.251	.142	.045	
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.209	.111	.033	.202	.108	.032	
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.176	.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 <sub>CC</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	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	.106	.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	.158	.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	.081	.047	.022	.047	.028	.013	.015	.009	.004	
8.0	.131	.071	.031	.112	.062	.027	.078	.043	.019	.045	.026	.011	.015	.008	.004	
9.0	.125	.066	.027	.107	.058	.024	.074	.040	.017	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.102	.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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
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	17.7	19.3	18.0	19.5	19.7	18.0	19.5	18.2	19.7	19.9
3H	19.2	20.6	19.5	20.8	21.0	19.5	20.9	19.8	21.1	21.4
4H	19.7	21.0	20.0	21.3	21.5	20.1	21.5	20.4	21.7	22.0
6H	20.0	21.3	20.3	21.5	21.8	20.6	21.8	20.9	22.1	22.4
8H	20.1	21.3	20.4	21.6	21.9	20.7	21.9	21.0	22.2	22.5
12H	20.1	21.3	20.5	21.6	21.9	20.8	21.9	21.1	22.2	22.5
4H 2H	18.4	19.7	18.7	20.0	20.2	18.5	19.9	18.9	20.1	20.4
3H	20.0	21.1	20.3	21.4	21.7	20.3	21.4	20.6	21.7	22.0
4H	20.6	21.7	21.0	22.0	22.3	21.0	22.1	21.4	22.4	22.7
6H	21.0	22.0	21.4	22.3	22.7	21.6	22.5	22.0	22.9	23.2
8H	21.2	22.0	21.6	22.4	22.8	21.7	22.6	22.2	23.0	23.4
12H	21.2	22.0	21.6	22.4	22.8	21.9	22.7	22.3	23.1	23.5
8H 4H	20.9	21.7	21.3	22.1	22.5	21.2	22.1	21.6	22.5	22.9
6H	21.4	22.2	21.9	22.6	23.0	21.9	22.7	22.4	23.1	23.5
8H	21.6	22.3	22.1	22.7	23.2	22.2	22.8	22.6	23.3	23.7
12H	21.7	22.3	22.2	22.7	23.2	22.4	22.9	22.9	23.4	23.9
12H 4H	20.9	21.7	21.3	22.1	22.5	21.2	22.0	21.6	22.4	22.8
6H	21.5	22.2	22.0	22.6	23.0	22.0	22.6	22.4	23.0	23.5
8H	21.7	22.3	22.2	22.7	23.2	22.3	22.8	22.7	23.3	23.7

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 / - 0.2

CIE Pub.117, 2244 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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

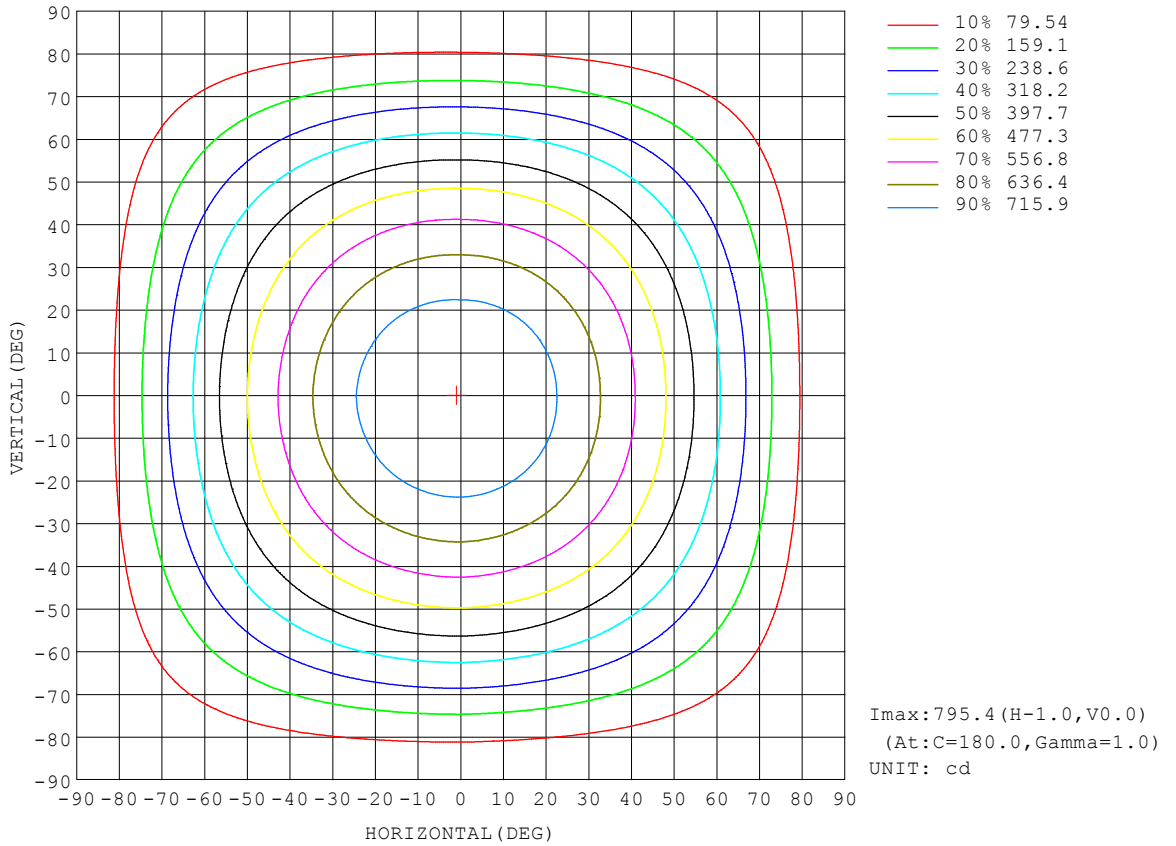
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	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	71	64	57
1.50	88	78	71	86	77	71	83	76	70	62
2.00	95	87	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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

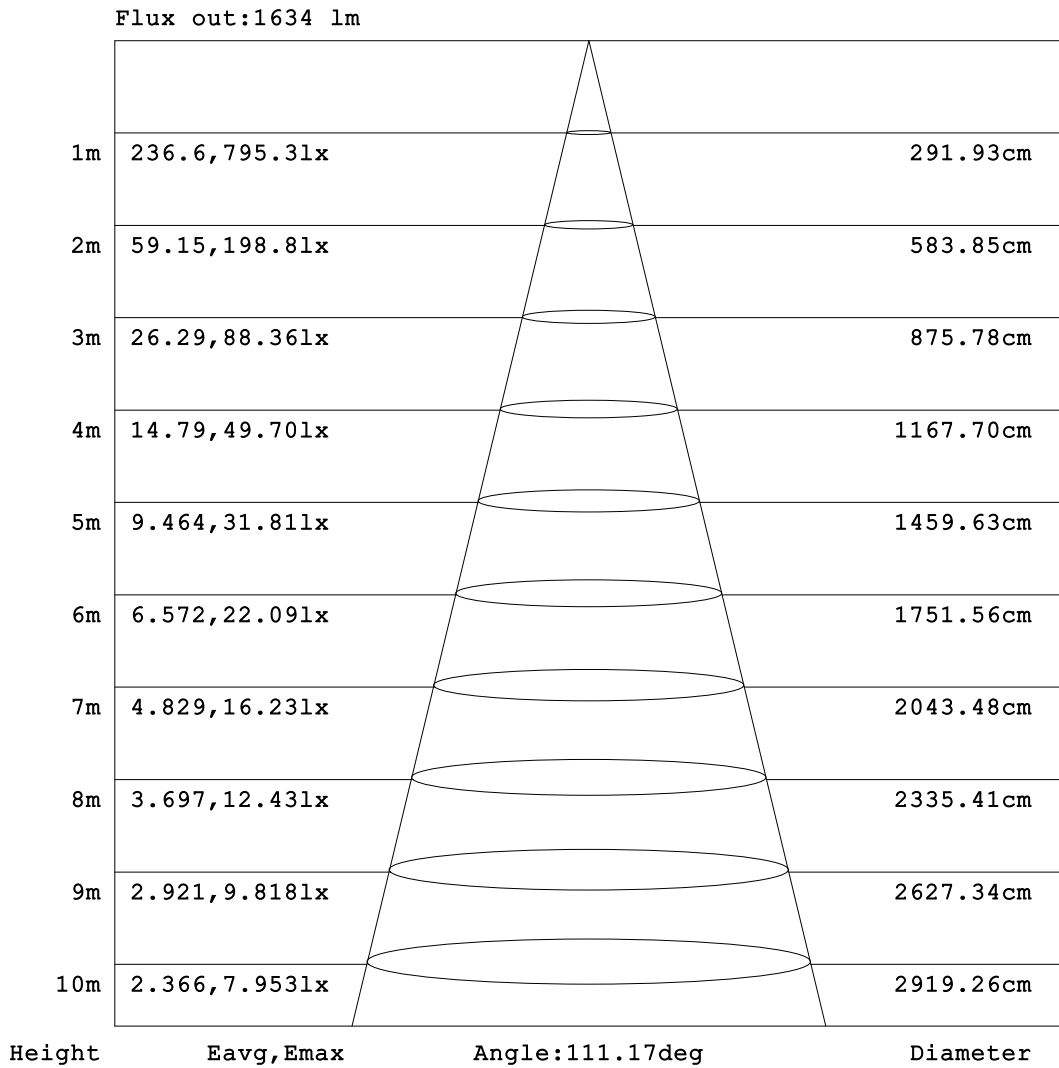


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2025-11-27

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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:



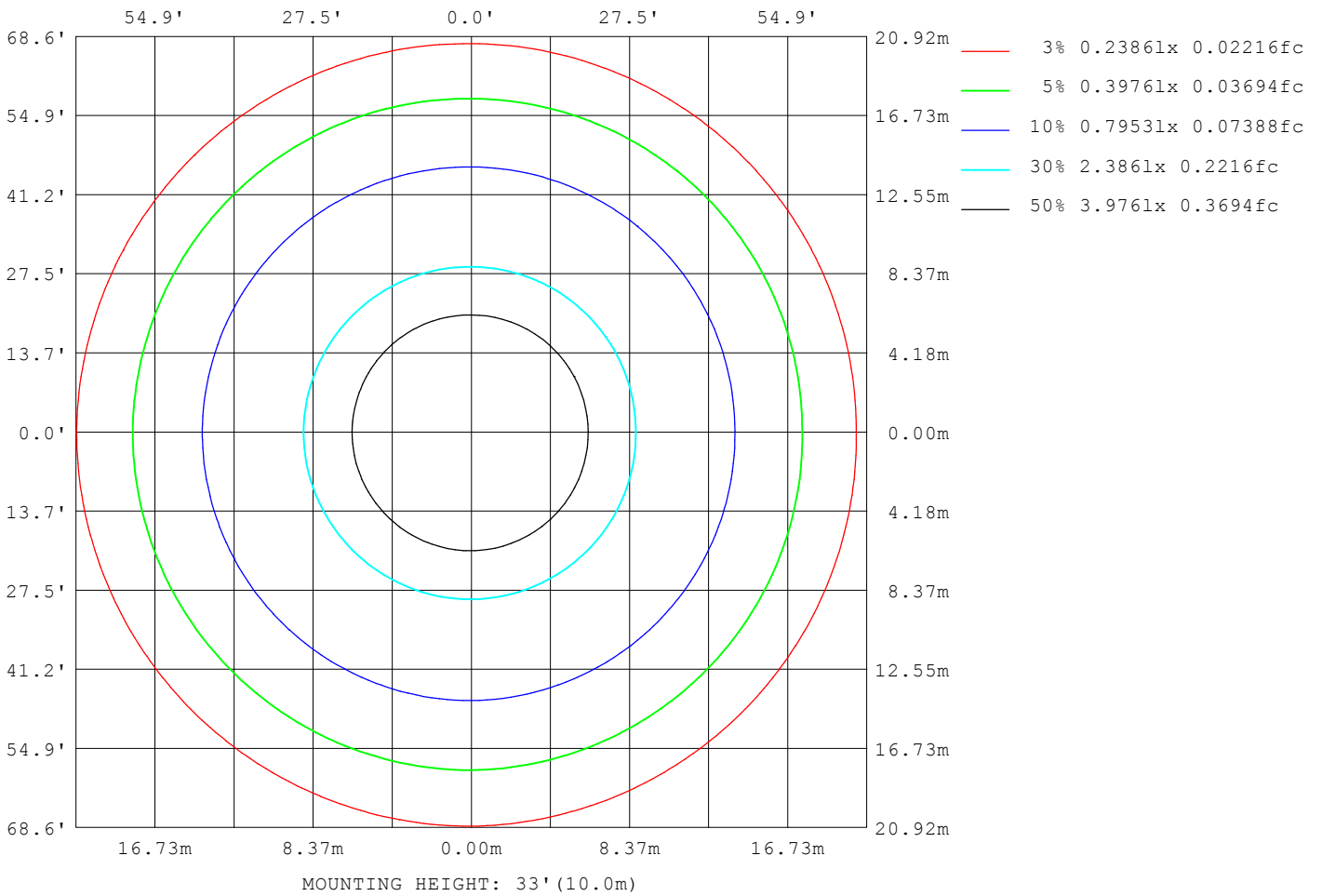
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

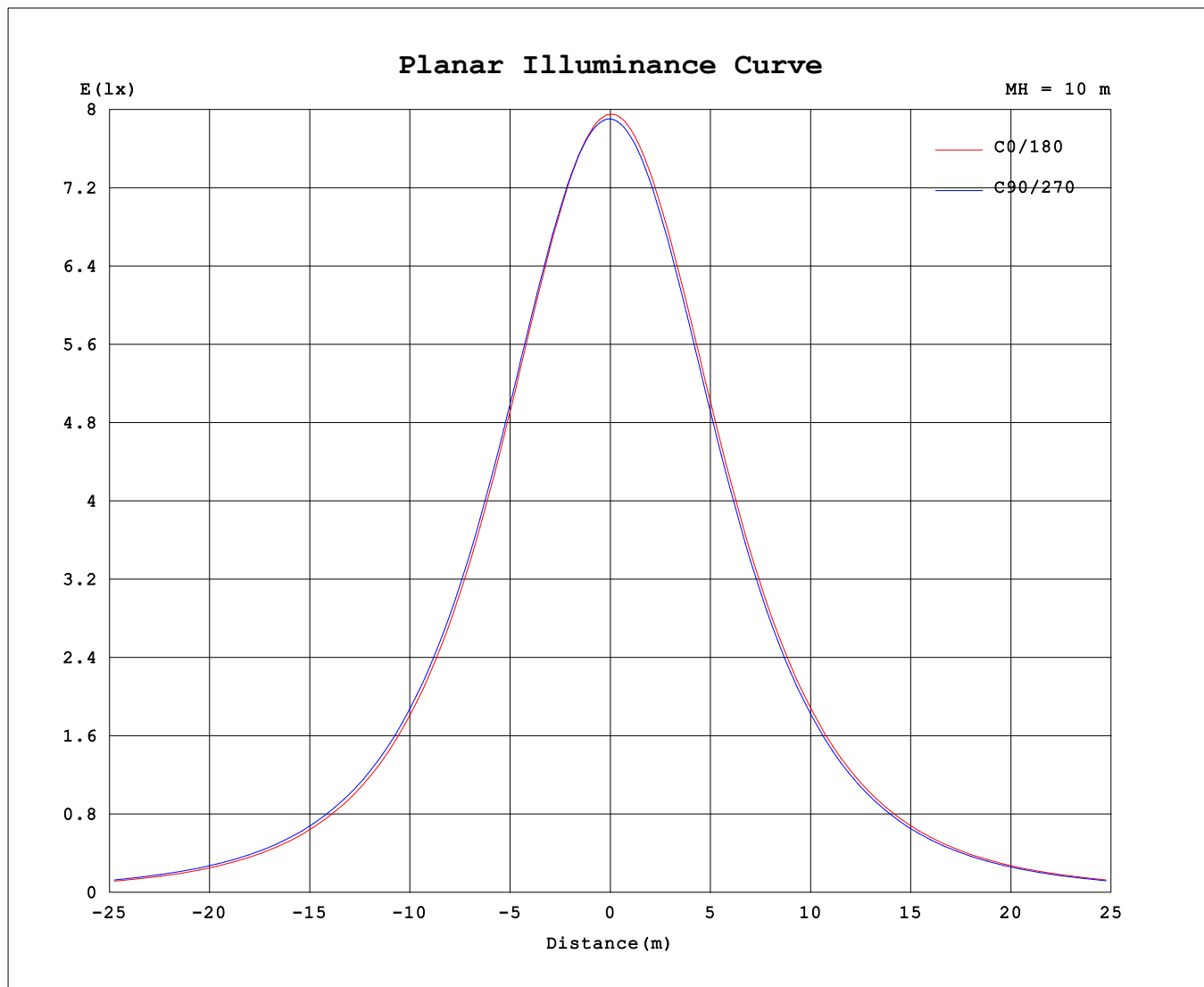
AvgL	cd/m2
L_0~180 (65) av	3912
L_0~180 (75) av	3328
L_0~180 (85) av	2166
L_90~270 (65) av	3990
L_90~270 (75) av	3484
L_90~270 (85) av	2382
L_45 (65) av	3972
L_45 (75) av	3441
L_45 (85) av	2337

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:120.04V I:0.2707A P:32.055W PF:0.9865 Freq:59.98Hz Lamp Flux:2243.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	793	793	793	793															
5	788	790	791	788															
10	775	781	781	776															
15	756	764	764	758															
20	729	741	741	732															
25	696	711	710	700															
30	658	674	674	663															
35	613	632	631	619															
40	564	585	584	571															
45	510	533	532	518															
50	453	476	476	461															
55	392	416	416	400															
60	328	353	353	337															
65	262	287	287	272															
70	196	221	220	207															
75	132	156	154	143															
80	73.0	94.1	93.0	83.3															
85	22.9	38.7	39.8	30.3															
90	0.05	0.06	0.28	0.08															
95	0.09	0.13	0.14	0.12															
100	0.20	0.23	0.24	0.25															
105	0.32	0.37	0.38	0.39															
110	0.45	0.50	0.52	0.55															
115	0.59	0.63	0.67	0.70															
120	0.72	0.76	0.82	0.85															
125	0.84	0.87	0.96	0.99															
130	0.96	1.00	1.09	1.14															
135	1.06	1.10	1.23	1.27															
140	1.16	1.19	1.36	1.40															
145	1.26	1.29	1.47	1.50															
150	1.36	1.39	1.58	1.62															
155	1.46	1.50	1.68	1.72															
160	1.57	1.61	1.79	1.79															
165	1.67	1.71	1.88	1.87															
170	1.75	1.80	1.97	1.93															
175	1.83	1.88	1.97	1.97															
180	1.94	1.98	1.97	1.97															

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: