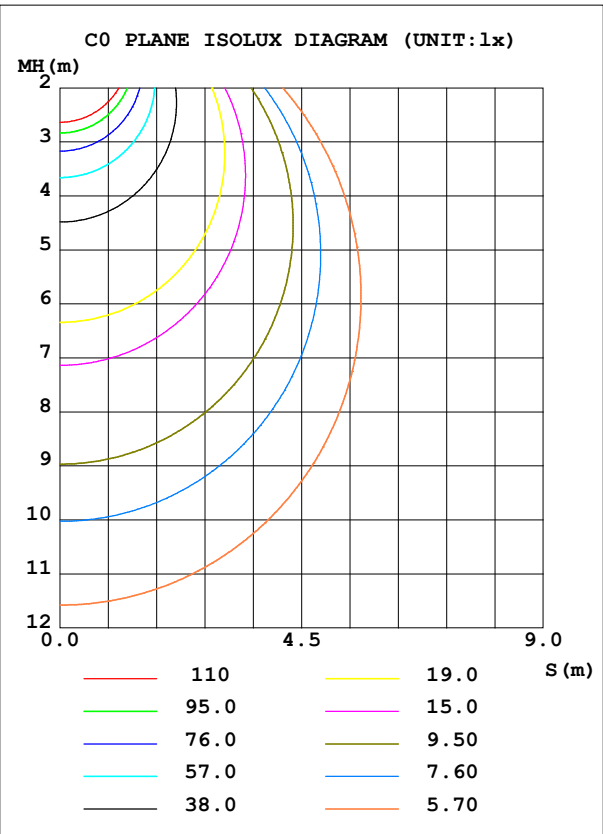
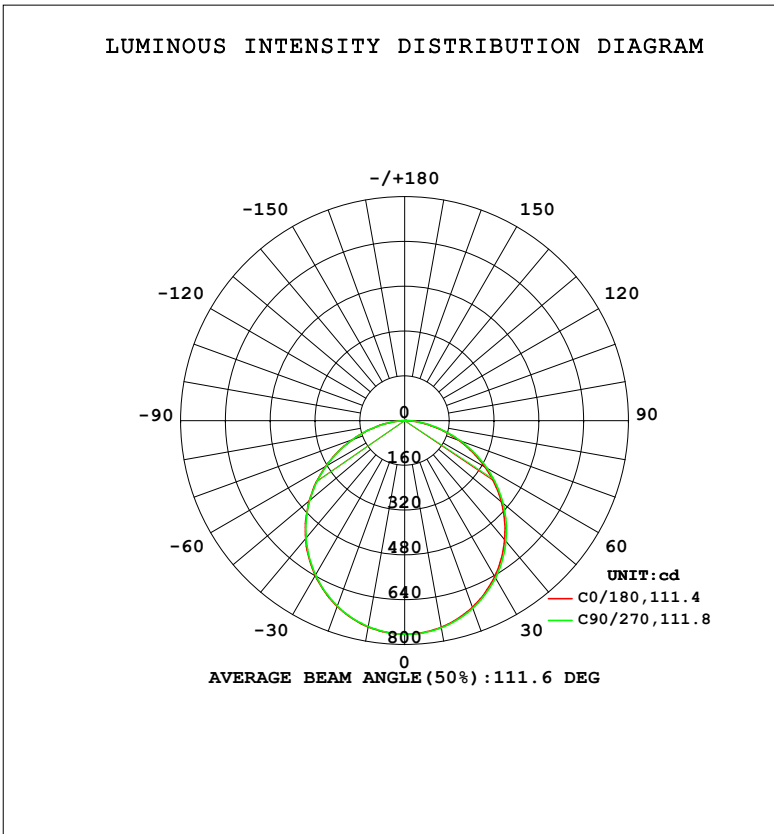


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDSN_2700K	Imax (cd)	763.3	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)	2162.5	$\eta$ UP, DN (C0-180)	0.1,50.6
NOMINAL FLUX (lm)	2162.46	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:

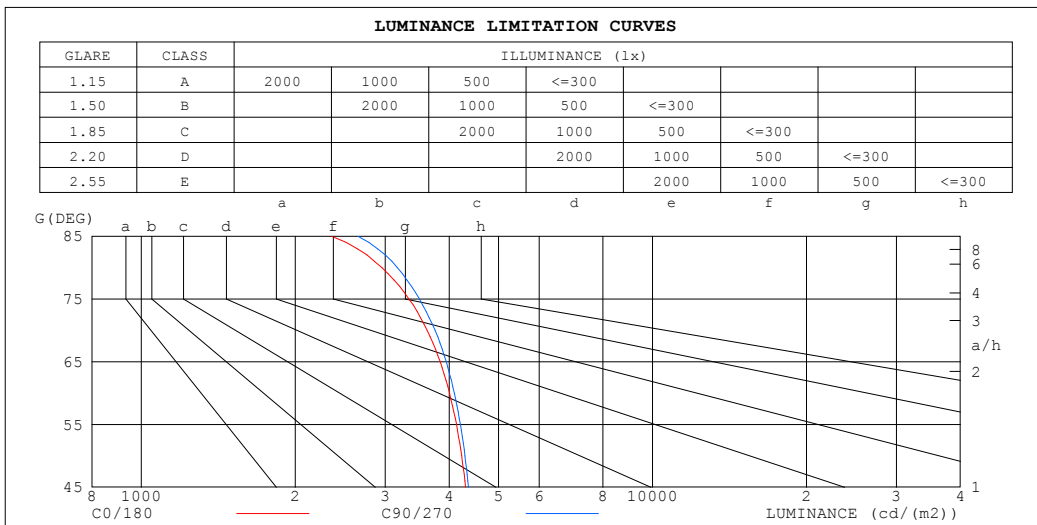
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	749.9	751.6	748.6	747.1					0- 10	72.18	72.18	3.34,3.34
20	709.2	713.0	706.4	704.4					10- 20	206.6	278.7	12.9,12.9
30	643.5	649.3	639.4	636.9					20- 30	312.5	591.2	27.3,27.3
40	555.9	562.9	550.7	548.1					30- 40	375.8	967.0	44.7,44.7
50	451.1	458.9	444.9	442.3					40- 50	388.5	1355	62.7,62.7
60	332.2	340.1	325.1	323.1					50- 60	349.4	1705	78.8,78.8
70	205.6	213.3	198.0	197.8					60- 70	264.4	1969	91.1,91.1
80	85.08	91.39	78.76	79.19					70- 80	150.0	2119	98,98
90	0.0796	0.0499	0.0664	0.0722					80- 90	38.18	2157	99.8,99.8
100	0.1655	0.2325	0.2763	0.2431					90-100	0.1401	2158	99.8,99.8
110	0.4192	0.4758	0.5469	0.5306					100-110	0.3805	2158	99.8,99.8
120	0.6676	0.7357	0.8337	0.8237					110-120	0.6233	2159	99.8,99.8
130	0.8885	0.9569	1.099	1.100					120-130	0.7943	2159	99.9,99.9
140	1.087	1.145	1.331	1.349					130-140	0.8667	2160	99.9,99.9
150	1.308	1.350	1.546	1.570					140-150	0.8368	2161	99.9,99.9
160	1.540	1.554	1.756	1.747					150-160	0.7121	2162	100,100
170	1.788	1.858	1.965	1.897					160-170	0.4963	2162	100,100
180	1.943	1.963	1.965	1.963					170-180	0.1830	2162	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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 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	2357	2654
80	2954	3168
75	3337	3502
70	3624	3754
65	3842	3948
60	4007	4094
55	4135	4209
50	4231	4296
45	4310	4366

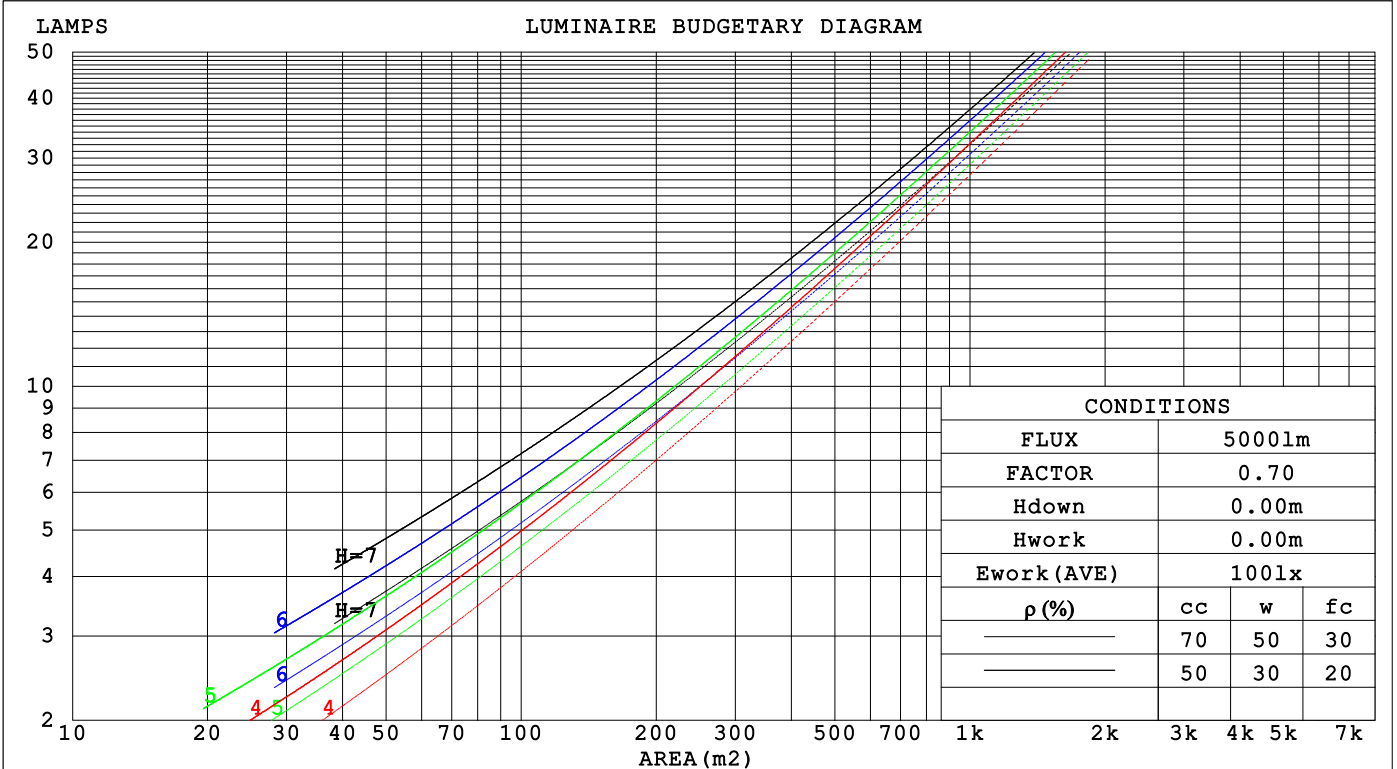
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-27

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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
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	.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	.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

$\gamma$  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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz		
Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
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	.287	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.290	.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	

$\rho_{CC}$	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	.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	.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	.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	.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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 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	17.8	19.4	18.1	19.6	19.8	17.9	19.4	18.2	19.6	19.8
3H	19.3	20.7	19.6	21.0	21.2	19.4	20.9	19.8	21.1	21.3
4H	19.9	21.3	20.2	21.5	21.8	20.1	21.4	20.4	21.7	21.9
6H	20.3	21.6	20.7	21.9	22.2	20.5	21.8	20.8	22.0	22.3
8H	20.5	21.7	20.8	22.0	22.3	20.7	21.9	21.0	22.2	22.4
12H	20.5	21.7	20.9	22.0	22.3	20.7	21.9	21.1	22.2	22.5
4H 2H	18.5	19.8	18.8	20.0	20.3	18.5	19.8	18.8	20.1	20.4
3H	20.1	21.3	20.5	21.6	21.9	20.2	21.4	20.6	21.7	22.0
4H	20.9	21.9	21.2	22.2	22.6	21.0	22.0	21.4	22.4	22.7
6H	21.4	22.3	21.8	22.7	23.1	21.5	22.5	21.9	22.8	23.2
8H	21.6	22.4	22.0	22.8	23.2	21.7	22.6	22.2	23.0	23.4
12H	21.7	22.5	22.1	22.9	23.3	21.9	22.7	22.3	23.1	23.5
8H 4H	21.1	22.0	21.5	22.4	22.8	21.2	22.1	21.6	22.5	22.9
6H	21.8	22.5	22.3	23.0	23.4	22.0	22.7	22.4	23.1	23.5
8H	22.1	22.7	22.5	23.1	23.6	22.2	22.9	22.7	23.3	23.8
12H	22.2	22.8	22.7	23.3	23.7	22.4	23.0	22.9	23.4	23.9
12H 4H	21.1	21.9	21.6	22.3	22.7	21.2	22.1	21.7	22.4	22.9
6H	21.9	22.5	22.3	22.9	23.4	22.0	22.7	22.5	23.1	23.5
8H	22.2	22.7	22.6	23.2	23.7	22.3	22.9	22.8	23.3	23.8

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, 2162 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.7)  
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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

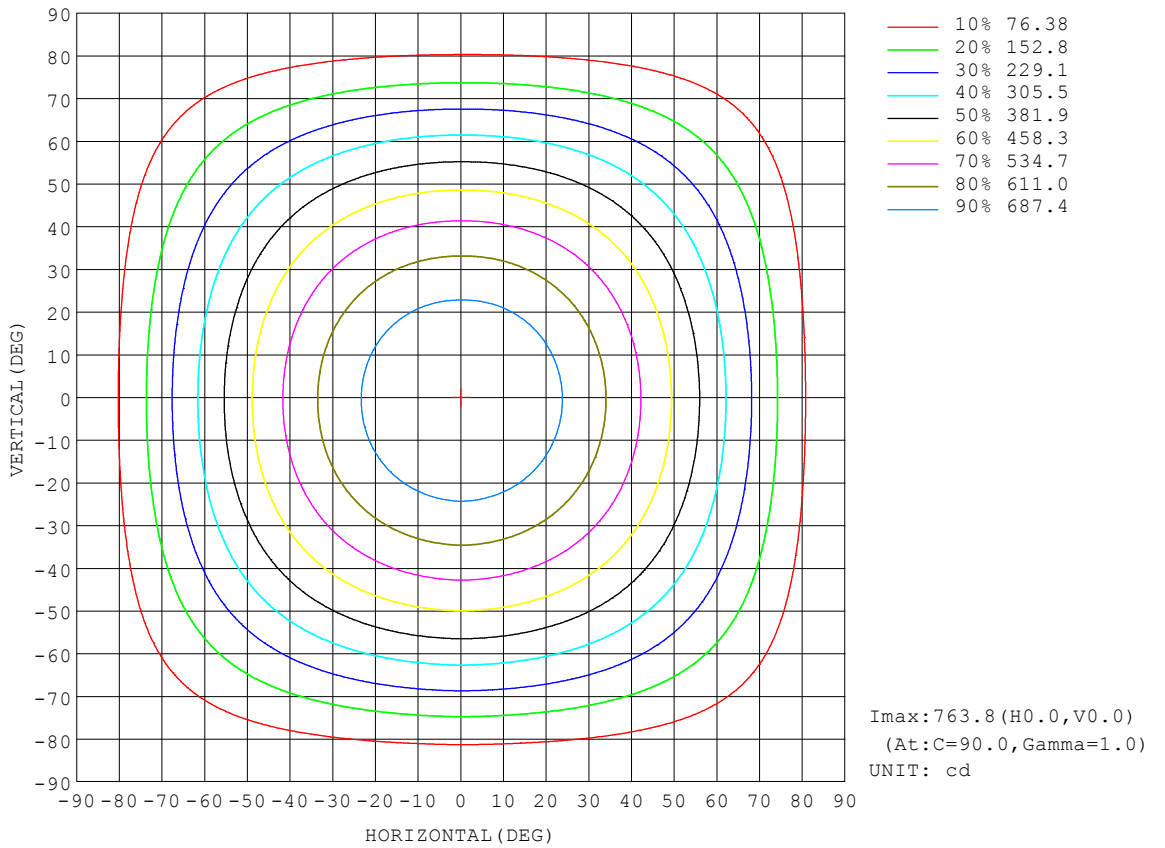
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	65	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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

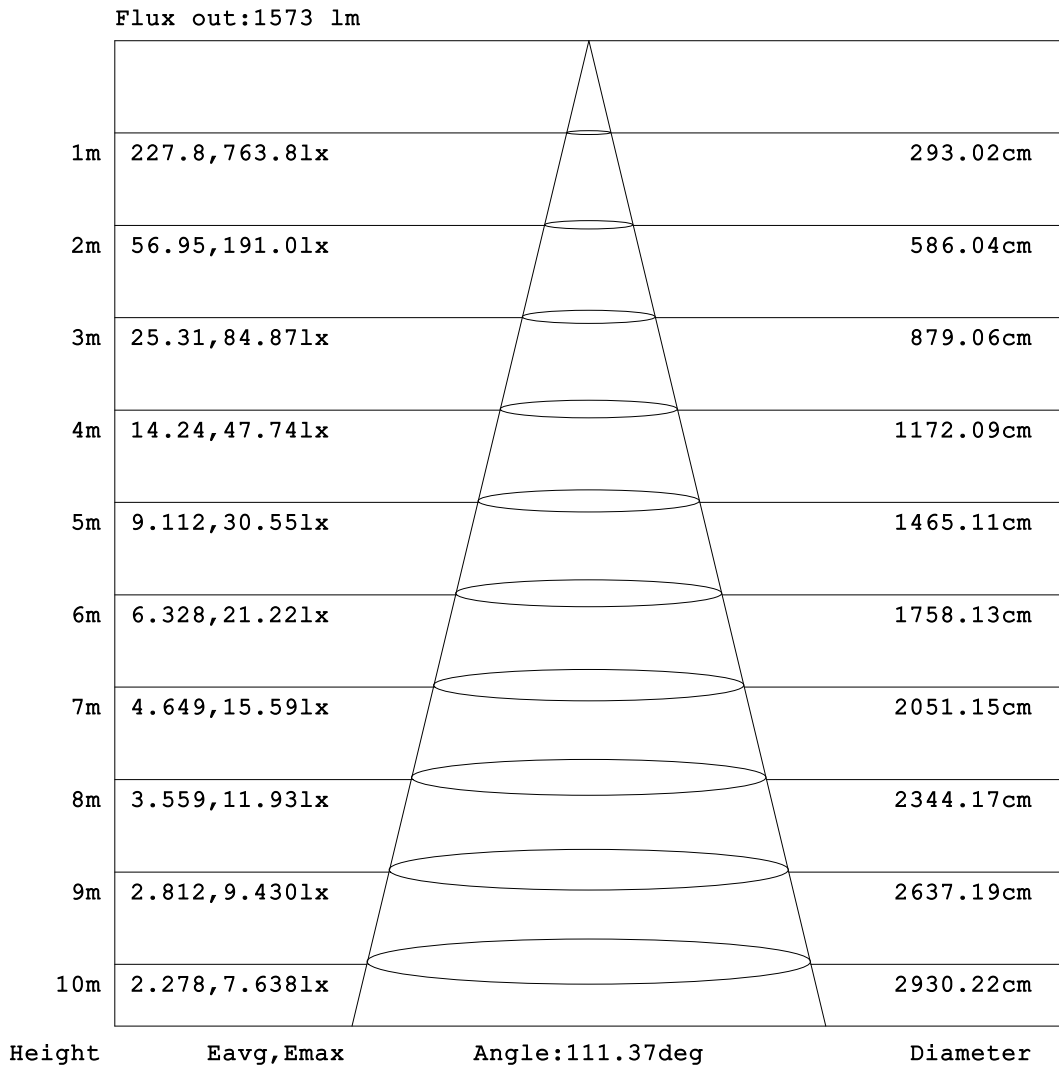


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-27

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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:



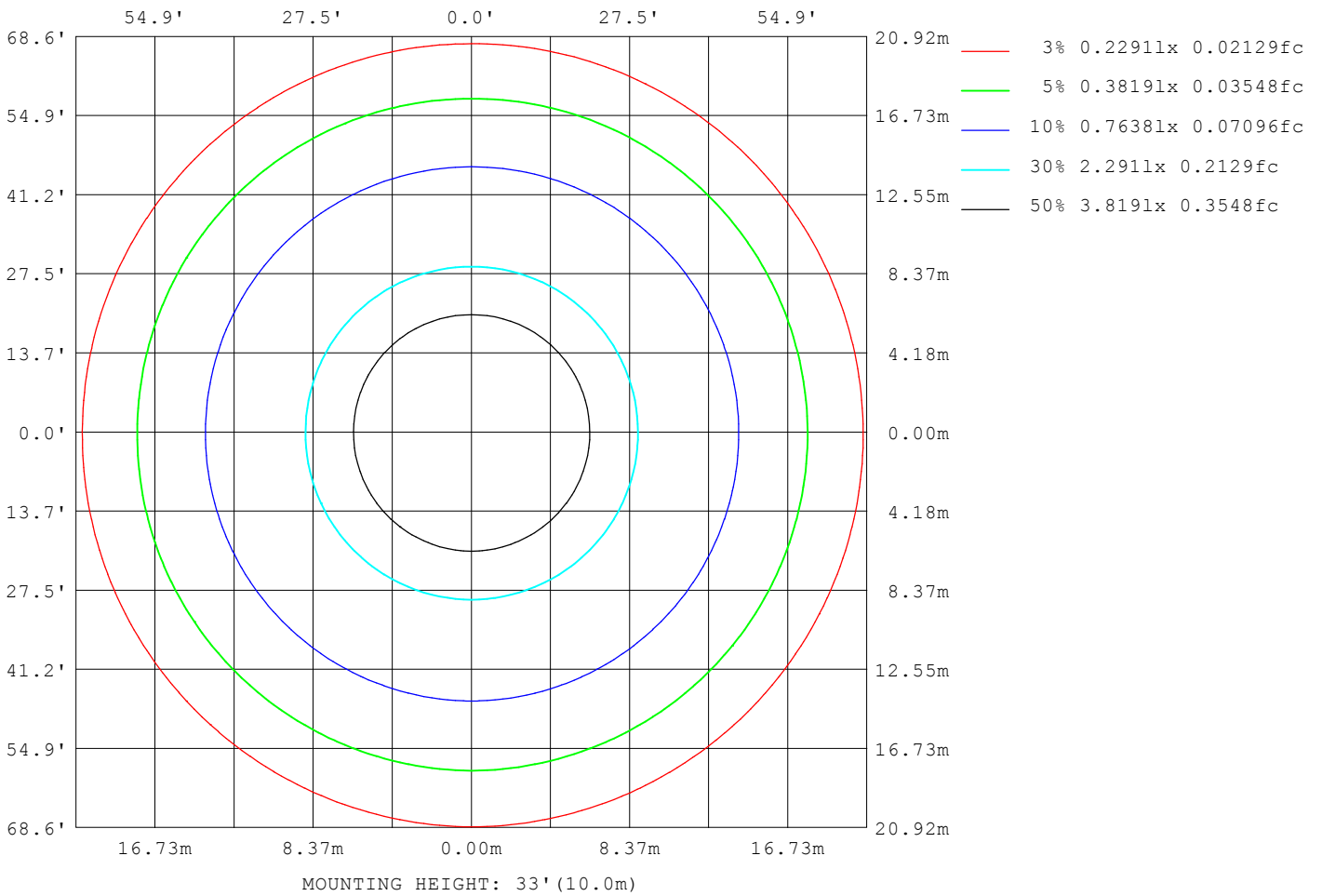
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

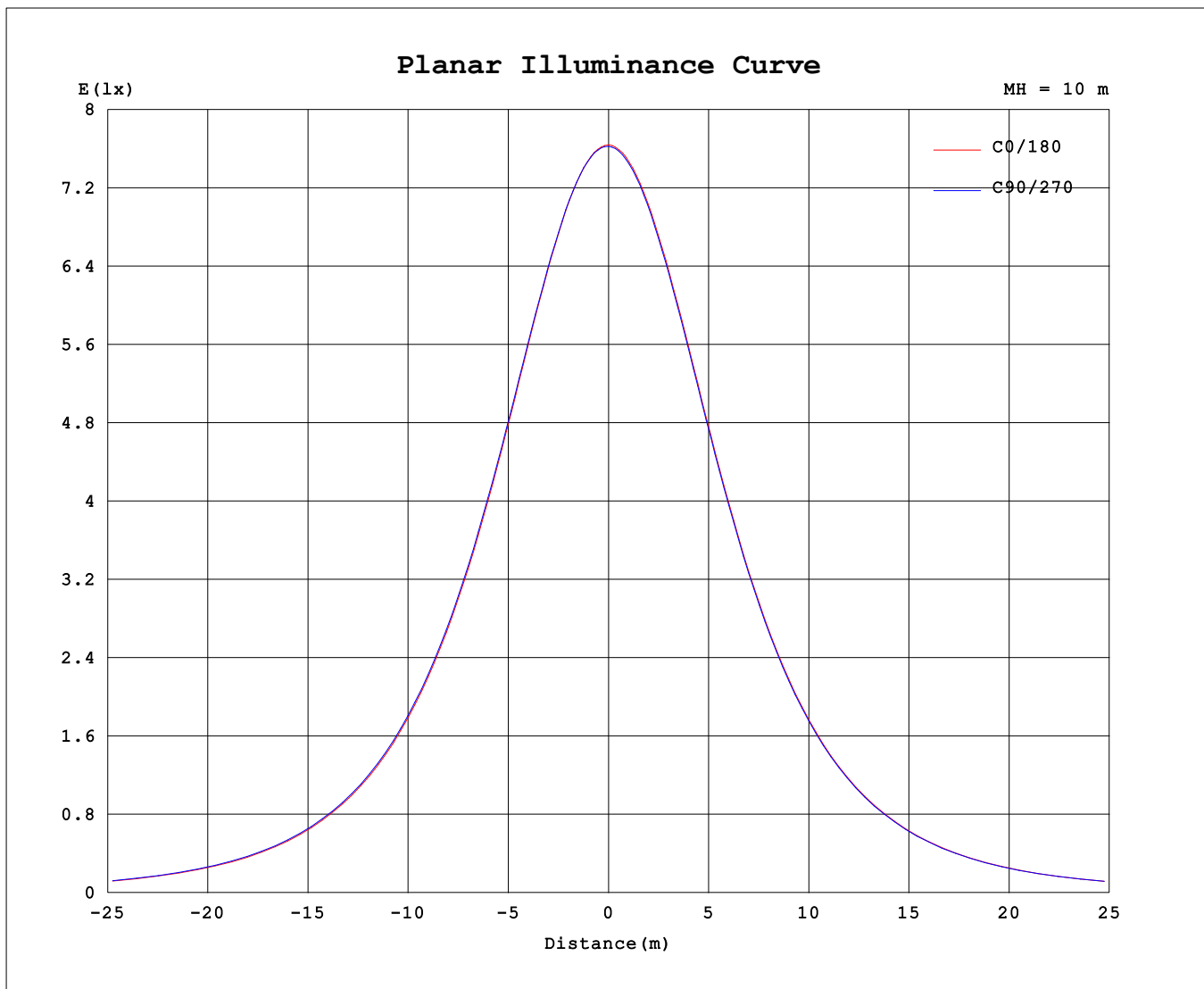
AvgL	cd/m2
L_0~180 (65) av	3787
L_0~180 (75) av	3251
L_0~180 (85) av	2189
L_90~270 (65) av	3834
L_90~270 (75) av	3344
L_90~270 (85) av	2320
L_45 (65) av	3813
L_45 (75) av	3304
L_45 (85) av	2260

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:119.95V I:0.2643A P:31.414W PF:0.9910 Freq:49.99Hz Lamp Flux:2162.46x1 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	763	763	763	763															
5	760	761	759	758															
10	750	752	749	747															
15	733	736	731	729															
20	709	713	706	704															
25	679	684	676	673															
30	644	649	639	637															
35	602	609	597	595															
40	556	563	551	548															
45	505	513	500	497															
50	451	459	445	442															
55	393	401	387	384															
60	332	340	325	323															
65	269	277	262	261															
70	206	213	198	198															
75	143	151	136	137															
80	85.1	91.4	78.8	79.2															
85	34.1	38.4	29.3	28.7															
90	0.08	0.05	0.07	0.07															
95	0.07	0.12	0.16	0.12															
100	0.17	0.23	0.28	0.24															
105	0.29	0.35	0.40	0.39															
110	0.42	0.48	0.55	0.53															
115	0.55	0.61	0.69	0.67															
120	0.67	0.74	0.83	0.82															
125	0.78	0.85	0.97	0.96															
130	0.89	0.96	1.10	1.10															
135	0.99	1.06	1.22	1.24															
140	1.09	1.14	1.33	1.35															
145	1.20	1.24	1.45	1.46															
150	1.31	1.35	1.55	1.57															
155	1.42	1.45	1.64	1.66															
160	1.54	1.55	1.76	1.75															
165	1.68	1.70	1.85	1.82															
170	1.79	1.86	1.97	1.90															
175	1.88	1.95	1.97	1.94															
180	1.94	1.96	1.97	1.96															

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: