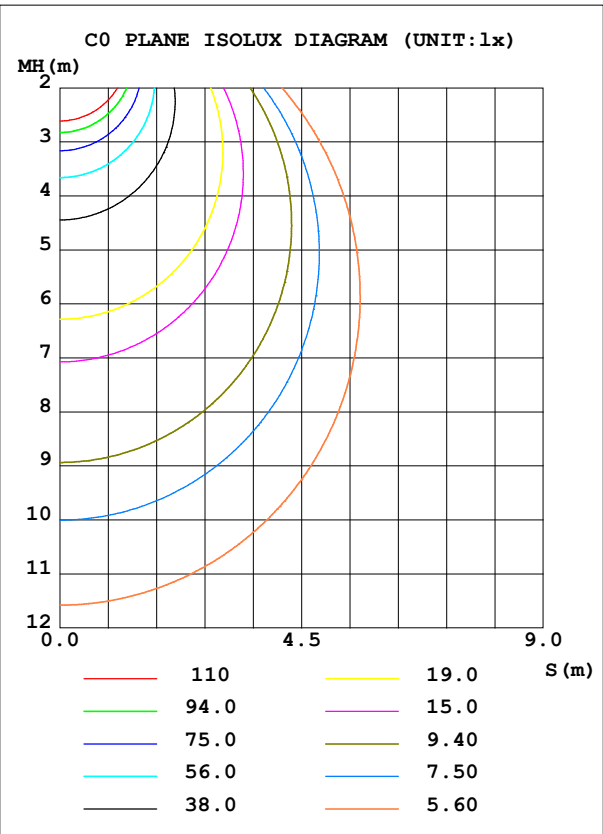
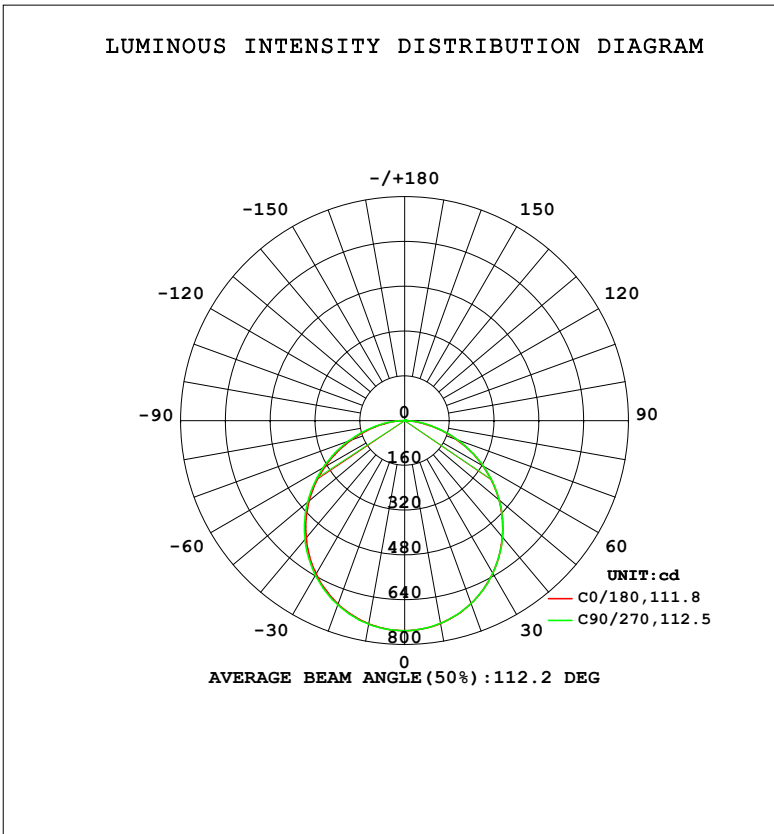


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDWH_2700K	Imax (cd)	750.4	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)	2142.7	$\eta$ UP, DN (C0-180)	0.1,49.4
NOMINAL FLUX (lm)	2142.68	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.1,50.4
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: 2025-11-26

$\gamma$  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:

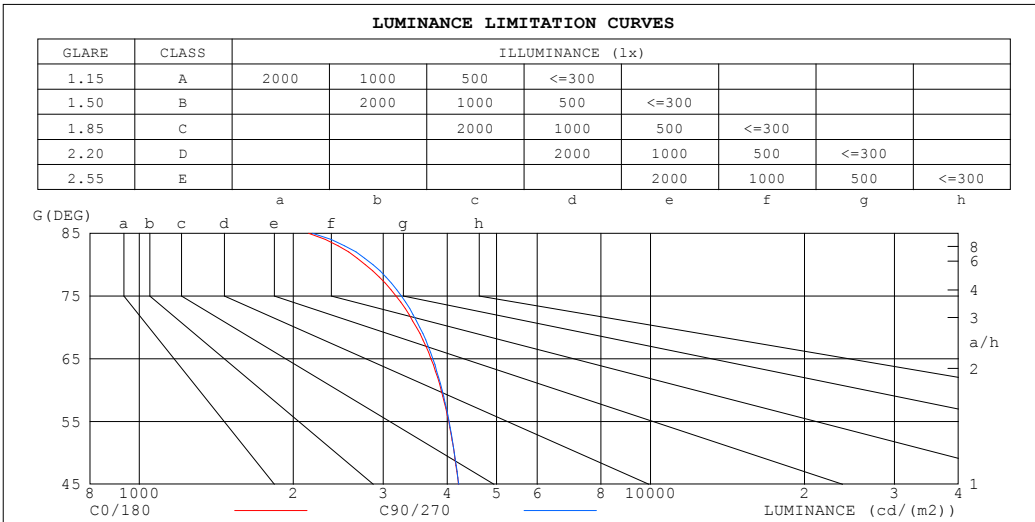
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	736.0	735.6	737.1	738.4					0- 10	70.98	70.98	3.31,3.31
20	695.0	694.8	697.2	700.3					10- 20	203.2	274.2	12.8,12.8
30	629.9	630.2	633.0	638.1					20- 30	307.7	581.8	27.2,27.2
40	543.5	544.1	547.6	554.1					30- 40	370.6	952.4	44.4,44.4
50	440.4	441.2	445.2	452.6					40- 50	384.1	1336	62.4,62.4
60	323.3	324.6	328.5	336.5					50- 60	346.6	1683	78.5,78.5
70	197.8	200.9	203.9	213.4					60- 70	263.6	1947	90.8,90.8
80	79.76	82.61	84.47	93.43					70- 80	151.0	2098	97.9,97.9
90	0.0986	0.0884	0.0886	0.4136					80- 90	39.97	2138	99.8,99.8
100	0.2041	0.2819	0.2930	0.2484					90-100	0.1695	2138	99.8,99.8
110	0.4362	0.5252	0.5582	0.5192					100-110	0.4004	2138	99.8,99.8
120	0.6792	0.7849	0.8398	0.7955					110-120	0.6380	2139	99.8,99.8
130	0.9110	0.9951	1.100	1.055					120-130	0.8018	2140	99.9,99.9
140	1.093	1.188	1.331	1.293					130-140	0.8672	2140	99.9,99.9
150	1.265	1.343	1.547	1.514					140-150	0.8253	2141	99.9,99.9
160	1.458	1.526	1.724	1.730					150-160	0.6972	2142	100,100
170	1.640	1.697	1.933	1.918					160-170	0.4801	2143	100,100
180	1.911	1.885	1.955	1.929					170-180	0.1759	2143	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

$\gamma$  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:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 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	2144	2182
80	2768	2865
75	3177	3257
70	3485	3538
65	3721	3750
60	3896	3909
55	4029	4036
50	4129	4133
45	4209	4212

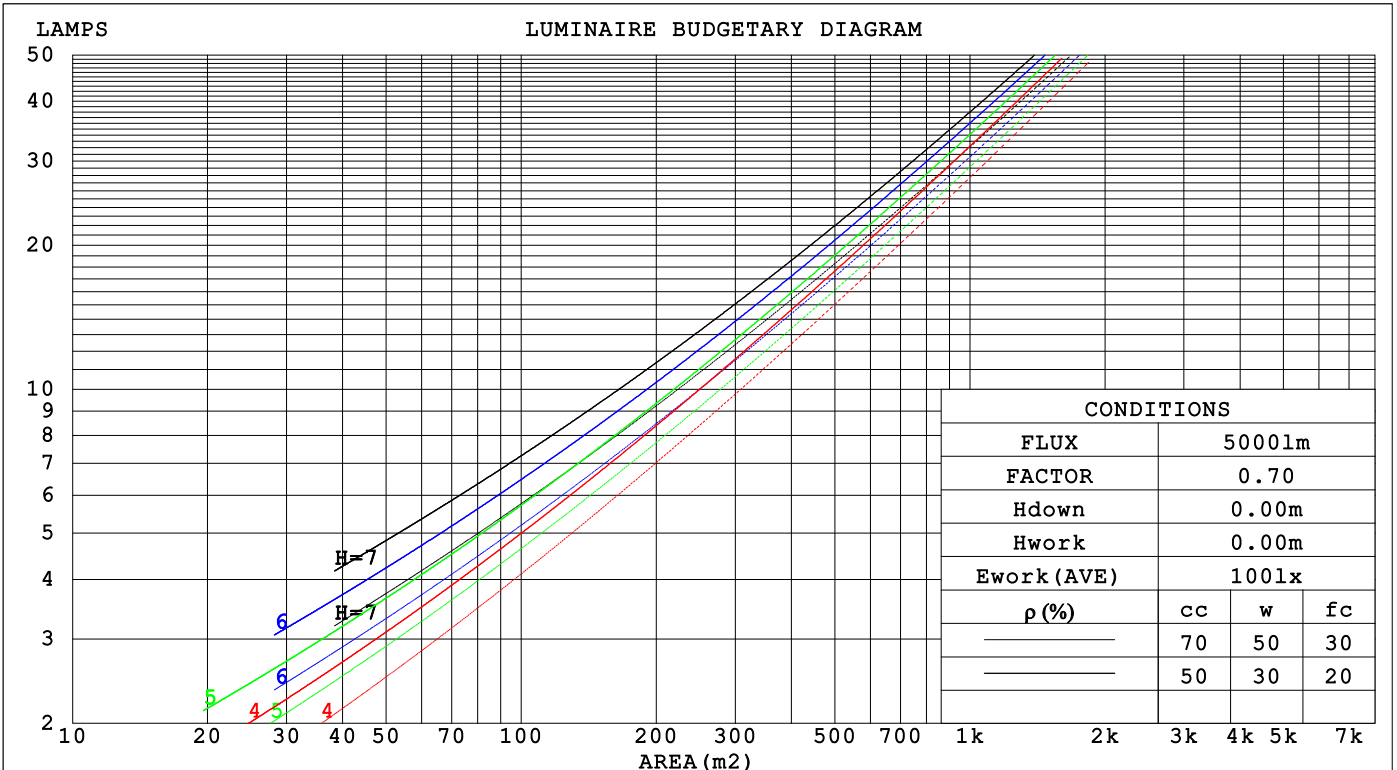
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-26

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:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 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	.87	.86	.83
2.0	.90	.84	.78	.88	.82	.77	.85	.80	.75	.82	.77	.73	.78	.75	.72	.69
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.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	.30
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

$\gamma$  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:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz								
Lamp Flux:2142.68x1 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	.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 <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	.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	.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	.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:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz										
Lamp Flux:2142.68x1 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	19.2	17.9	19.4	19.6	17.7	19.2	17.9	19.4	19.6
3H	19.1	20.5	19.4	20.8	21.0	19.2	20.6	19.5	20.8	21.1
4H	19.7	21.0	20.0	21.3	21.6	19.8	21.1	20.1	21.3	21.6
6H	20.1	21.4	20.4	21.6	21.9	20.2	21.4	20.5	21.7	22.0
8H	20.2	21.4	20.6	21.7	22.0	20.3	21.5	20.6	21.8	22.1
12H	20.3	21.4	20.6	21.7	22.0	20.3	21.5	20.7	21.8	22.1
4H 2H	18.3	19.6	18.6	19.9	20.1	18.3	19.6	18.6	19.9	20.1
3H	19.9	21.1	20.3	21.4	21.7	19.9	21.1	20.3	21.4	21.7
4H	20.6	21.7	21.0	22.0	22.3	20.7	21.7	21.0	22.0	22.4
6H	21.1	22.1	21.5	22.4	22.8	21.2	22.1	21.6	22.5	22.9
8H	21.3	22.2	21.7	22.5	22.9	21.4	22.2	21.8	22.6	23.0
12H	21.4	22.2	21.8	22.6	23.0	21.4	22.3	21.9	22.7	23.1
8H 4H	20.9	21.7	21.3	22.1	22.5	20.9	21.8	21.3	22.2	22.6
6H	21.5	22.3	22.0	22.7	23.1	21.6	22.3	22.0	22.7	23.2
8H	21.8	22.4	22.2	22.8	23.3	21.8	22.5	22.3	22.9	23.4
12H	21.9	22.5	22.4	22.9	23.4	22.0	22.5	22.5	23.0	23.5
12H 4H	20.9	21.7	21.3	22.1	22.5	20.9	21.7	21.3	22.1	22.5
6H	21.6	22.2	22.0	22.6	23.1	21.6	22.3	22.1	22.7	23.2
8H	21.8	22.4	22.3	22.9	23.3	21.9	22.5	22.4	22.9	23.4
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, 2143 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.6)  
 Area: 0.166 m2

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:

UTILIZATION FACTORS TABLE

Test:U:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

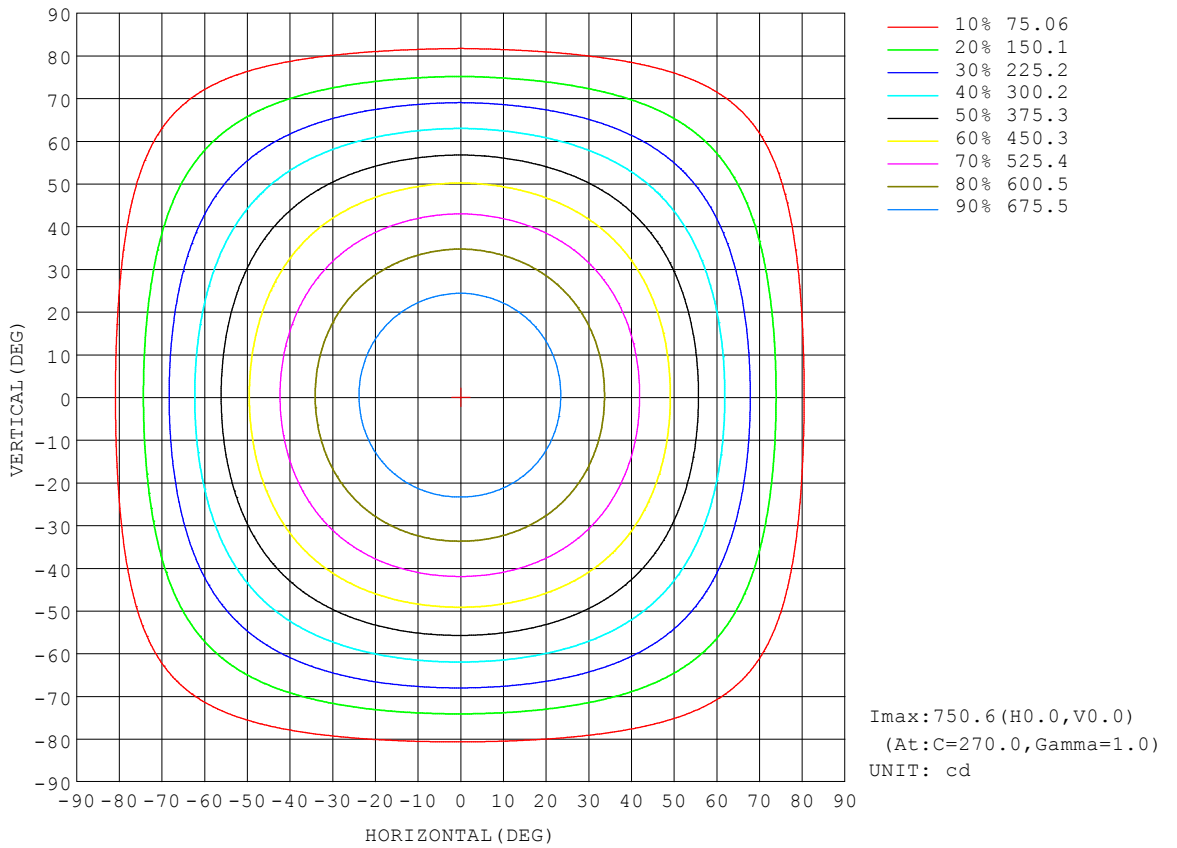
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	49
1.25	83	72	65	82	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	78	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

$\gamma$  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:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

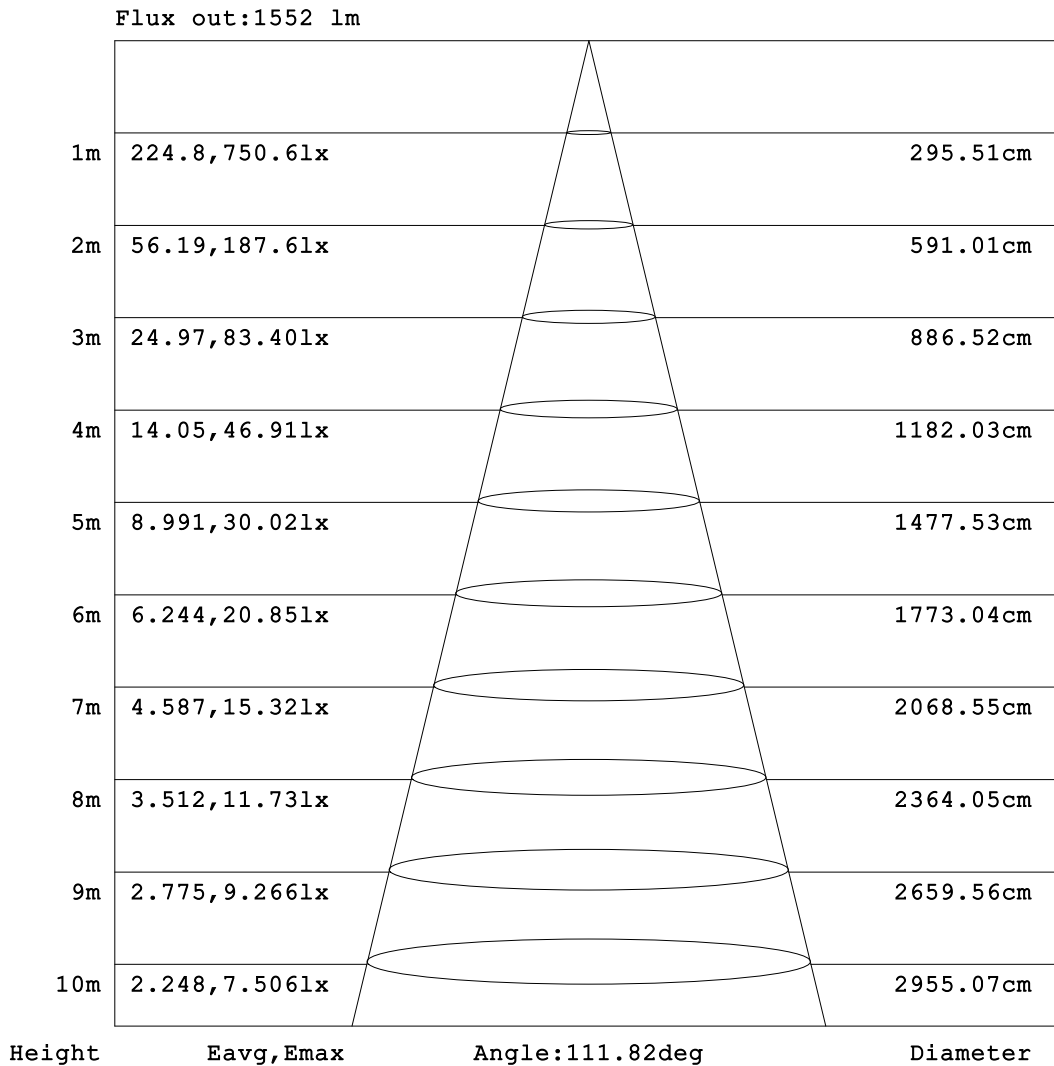


C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-26

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:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:



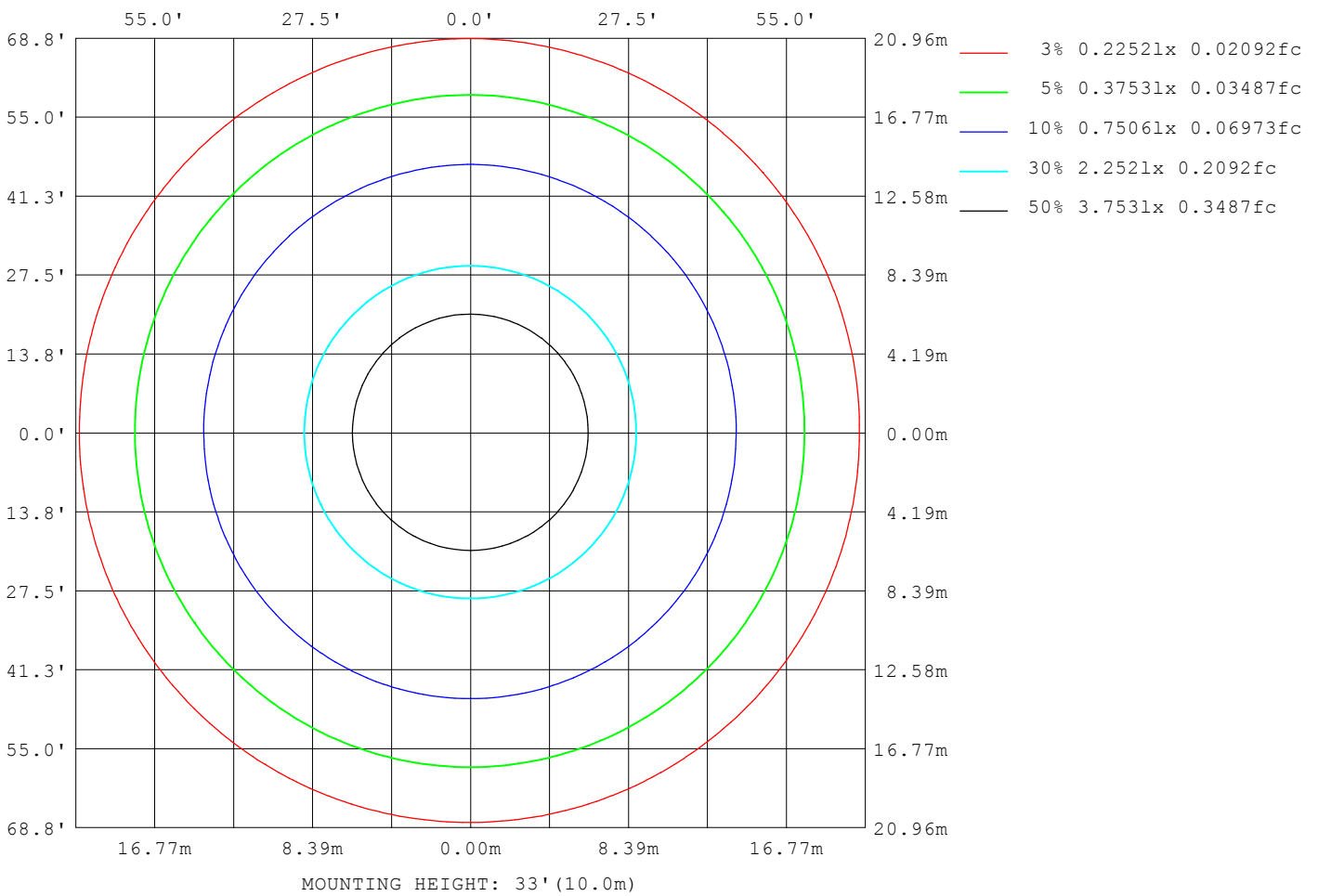
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 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:2025-11-26

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:120.04V I:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2700K
MFR.:	SUR.: 0.46	Shielding Angle:

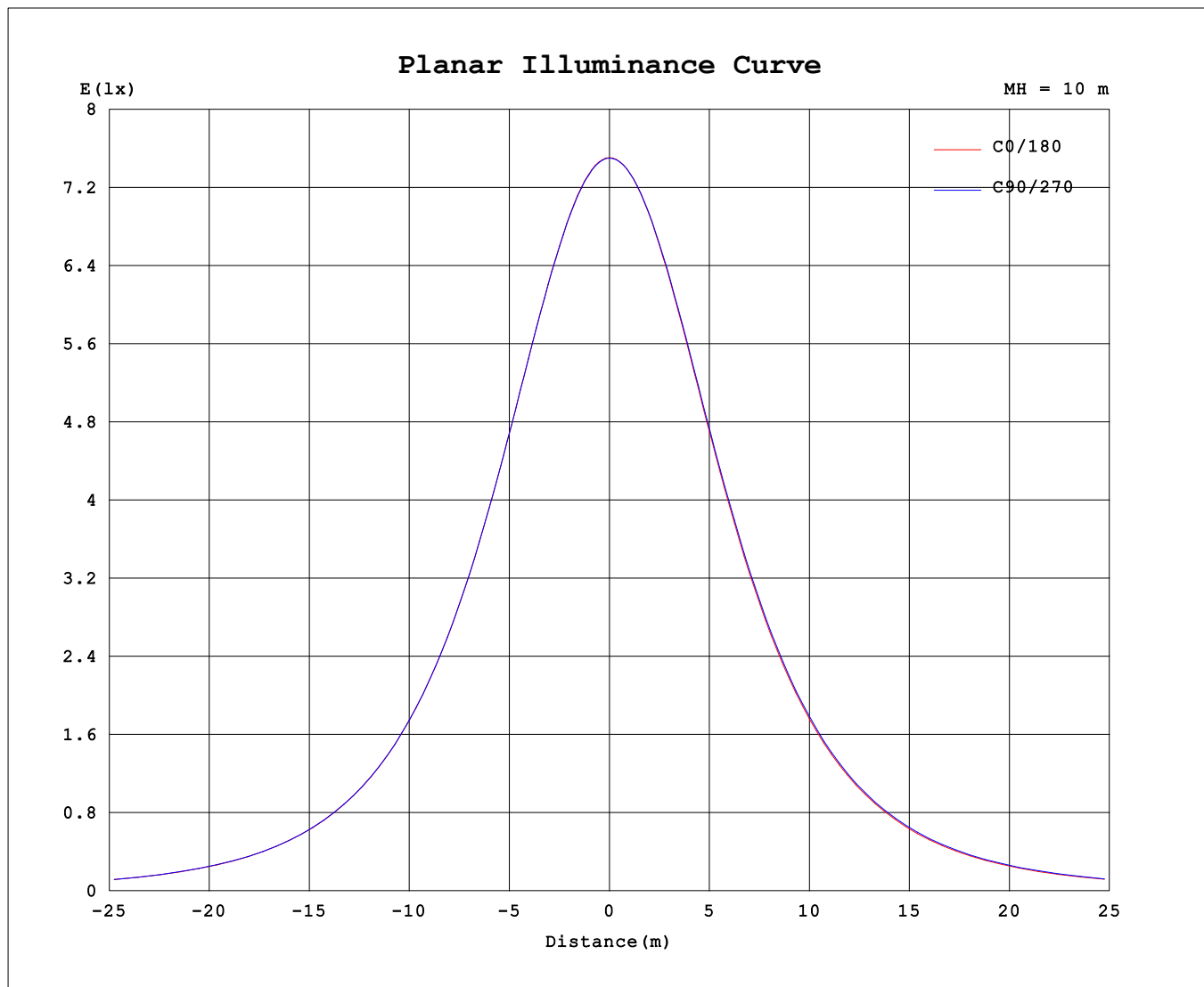
AvgL	cd/m2
L_0~180 (65) av	3760
L_0~180 (75) av	3241
L_0~180 (85) av	2264
L_90~270 (65) av	3837
L_90~270 (75) av	3397
L_90~270 (85) av	2504
L_45 (65) av	3811
L_45 (75) av	3343
L_45 (85) av	2421

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

$\gamma$  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:2025-11-26

$\gamma$  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:0.2680A P:31.739W PF:0.9867 Freq:59.98Hz Lamp Flux:2142.68x1 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	750	750	750	750															
5	747	746	747	748															
10	736	736	737	738															
15	719	718	720	722															
20	695	695	697	700															
25	665	665	668	672															
30	630	630	633	638															
35	589	590	593	598															
40	544	544	548	554															
45	494	495	498	505															
50	440	441	445	453															
55	383	384	388	396															
60	323	325	329	337															
65	261	263	267	275															
70	198	201	204	213															
75	136	140	142	152															
80	79.8	82.6	84.5	93.4															
85	31.0	31.6	34.5	40.9															
90	0.10	0.09	0.09	0.41															
95	0.09	0.16	0.18	0.12															
100	0.20	0.28	0.29	0.25															
105	0.32	0.40	0.43	0.38															
110	0.44	0.53	0.56	0.52															
115	0.57	0.66	0.70	0.66															
120	0.68	0.78	0.84	0.80															
125	0.81	0.90	0.97	0.92															
130	0.91	1.00	1.10	1.06															
135	1.01	1.11	1.22	1.18															
140	1.09	1.19	1.33	1.29															
145	1.18	1.25	1.44	1.40															
150	1.26	1.34	1.55	1.51															
155	1.36	1.44	1.63	1.61															
160	1.46	1.53	1.72	1.73															
165	1.56	1.61	1.82	1.82															
170	1.64	1.70	1.93	1.92															
175	1.74	1.79	2.00	1.94															
180	1.91	1.88	1.96	1.93															

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: