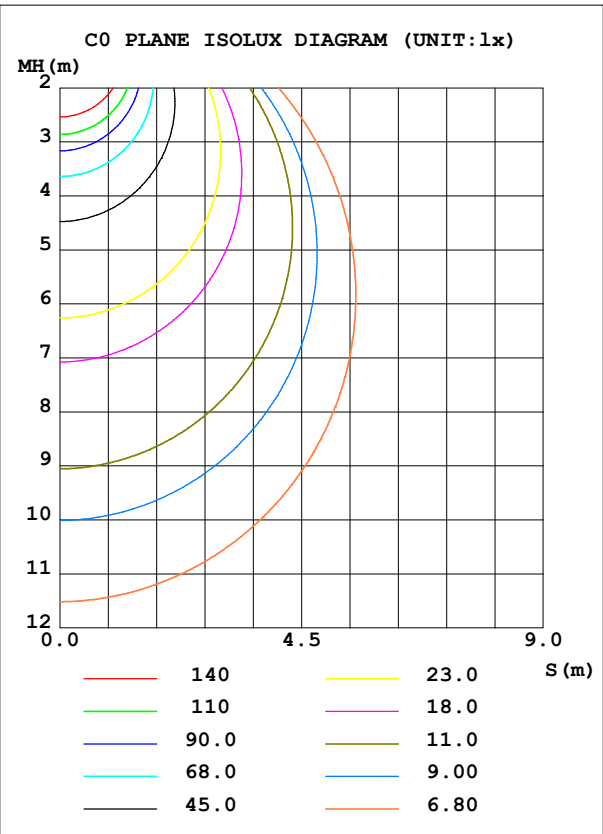
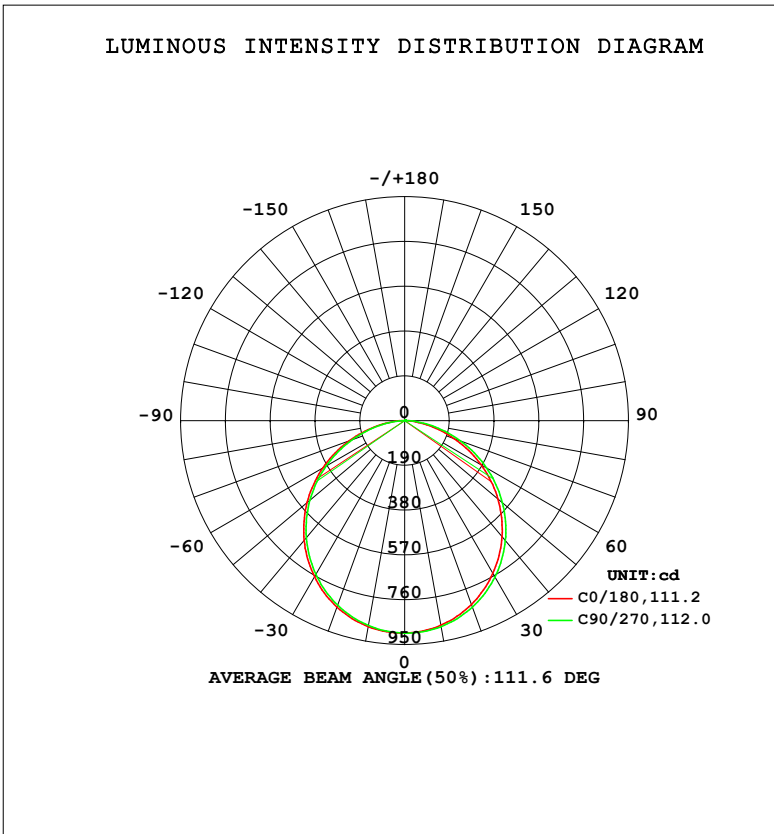


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDBK_5000K	Imax (cd)	901.5	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)	2552.9	$\eta$ UP, DN (C0-180)	0.1,49.7
NOMINAL FLUX (lm)	2552.92	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:

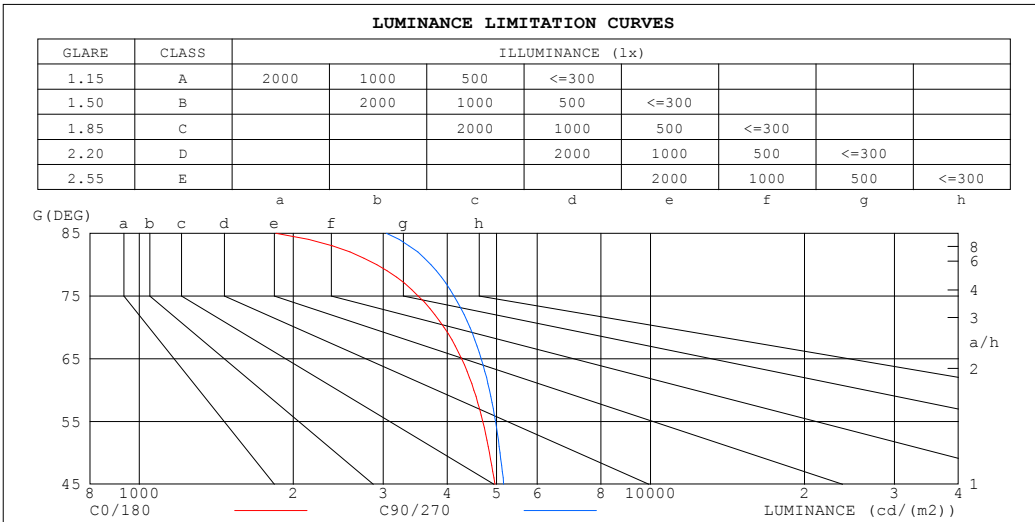
$\gamma$	C0	C90	C180	C270					$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	881.7	887.5	887.7	882.7					0- 10	85.26	85.26	3.34,3.34
20	829.7	841.8	841.3	832.6					10- 20	243.9	329.2	12.9,12.9
30	748.7	766.5	765.2	753.7					20- 30	369.0	698.2	27.3,27.3
40	642.8	665.0	663.4	649.7					30- 40	444.0	1142	44.7,44.7
50	516.6	541.8	540.4	524.8					40- 50	459.0	1601	62.7,62.7
60	374.6	401.8	400.2	384.2					50- 60	412.8	2014	78.9,78.9
70	223.8	251.7	249.3	236.1					60- 70	312.1	2326	91.1,91.1
80	83.94	107.3	105.0	95.19					70- 80	176.5	2503	98,98
90	0.0774	0.0719	0.2139	0.0996					80- 90	44.27	2547	99.8,99.8
100	0.2429	0.2821	0.3040	0.3037					90-100	0.1740	2547	99.8,99.8
110	0.5464	0.5804	0.6080	0.6462					100-110	0.4599	2548	99.8,99.8
120	0.8448	0.8733	0.9504	0.9944					110-120	0.7485	2548	99.8,99.8
130	1.105	1.144	1.265	1.326					120-130	0.9528	2549	99.9,99.9
140	1.337	1.365	1.558	1.613					130-140	1.036	2550	99.9,99.9
150	1.563	1.592	1.818	1.846					140-150	0.9936	2551	99.9,99.9
160	1.789	1.818	2.061	2.072					150-160	0.8406	2552	100,100
170	2.000	2.034	2.260	2.227					160-170	0.5747	2553	100,100
180	2.254	2.255	2.276	2.277					170-180	0.2072	2553	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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:



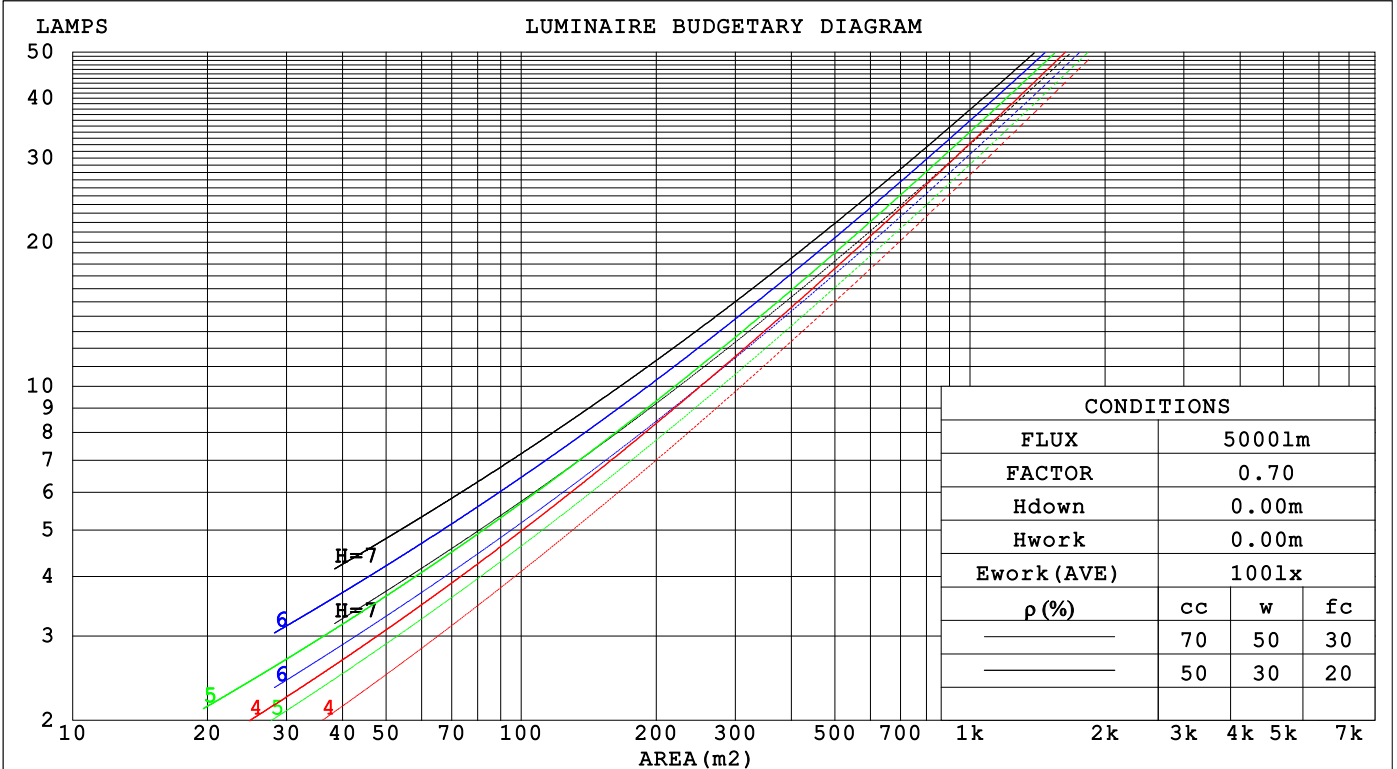
C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2025-11-27

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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	.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

$\gamma$  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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz		
Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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	.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	.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	.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	.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:120.04V I:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz										
Lamp Flux:2552.92x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.: 5000K				
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	18.2	19.7	18.5	19.9	20.1	18.4	20.0	18.7	20.2	20.4
3H	19.6	21.0	19.9	21.2	21.5	20.0	21.4	20.3	21.6	21.9
4H	20.1	21.5	20.5	21.7	22.0	20.6	21.9	20.9	22.2	22.4
6H	20.5	21.7	20.8	22.0	22.3	21.0	22.3	21.4	22.6	22.8
8H	20.5	21.8	20.9	22.0	22.3	21.2	22.4	21.5	22.7	23.0
12H	20.6	21.7	20.9	22.0	22.3	21.2	22.4	21.6	22.7	23.0
4H 2H	18.8	20.2	19.1	20.4	20.7	19.0	20.3	19.3	20.6	20.9
3H	20.4	21.6	20.8	21.9	22.2	20.7	21.9	21.1	22.2	22.5
4H	21.1	22.1	21.4	22.5	22.8	21.5	22.5	21.8	22.8	23.2
6H	21.5	22.5	21.9	22.8	23.2	22.0	23.0	22.4	23.3	23.7
8H	21.6	22.5	22.0	22.9	23.3	22.2	23.1	22.6	23.5	23.9
12H	21.7	22.5	22.1	22.9	23.3	22.3	23.1	22.8	23.5	23.9
8H 4H	21.3	22.2	21.7	22.6	23.0	21.7	22.6	22.1	22.9	23.3
6H	21.9	22.6	22.4	23.1	23.5	22.4	23.1	22.8	23.5	24.0
8H	22.1	22.8	22.6	23.2	23.6	22.7	23.3	23.1	23.7	24.2
12H	22.2	22.8	22.7	23.2	23.7	22.8	23.4	23.3	23.9	24.3
12H 4H	21.3	22.2	21.8	22.5	23.0	21.7	22.5	22.1	22.9	23.3
6H	22.0	22.6	22.4	23.1	23.5	22.4	23.1	22.9	23.5	24.0
8H	22.2	22.8	22.7	23.2	23.7	22.7	23.3	23.2	23.7	24.2
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, 2553 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.3)  
 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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

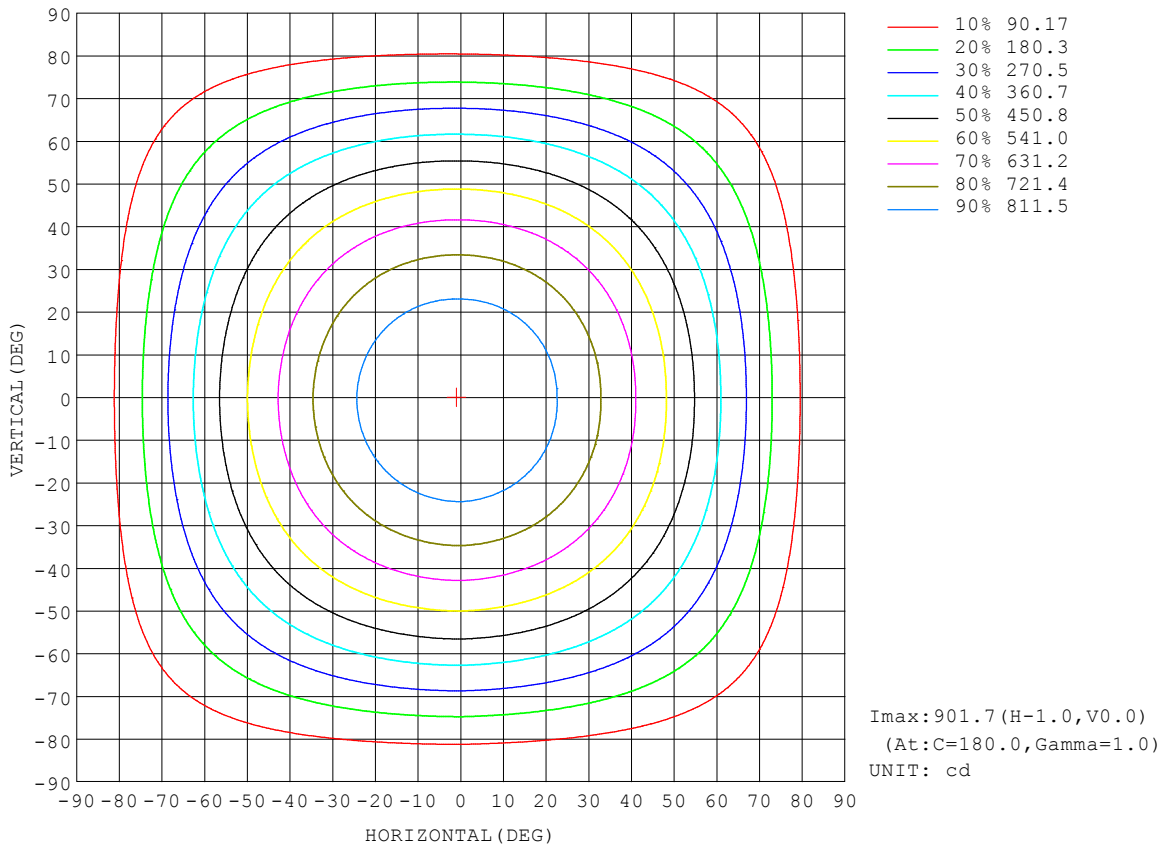
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	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:120.04V I:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

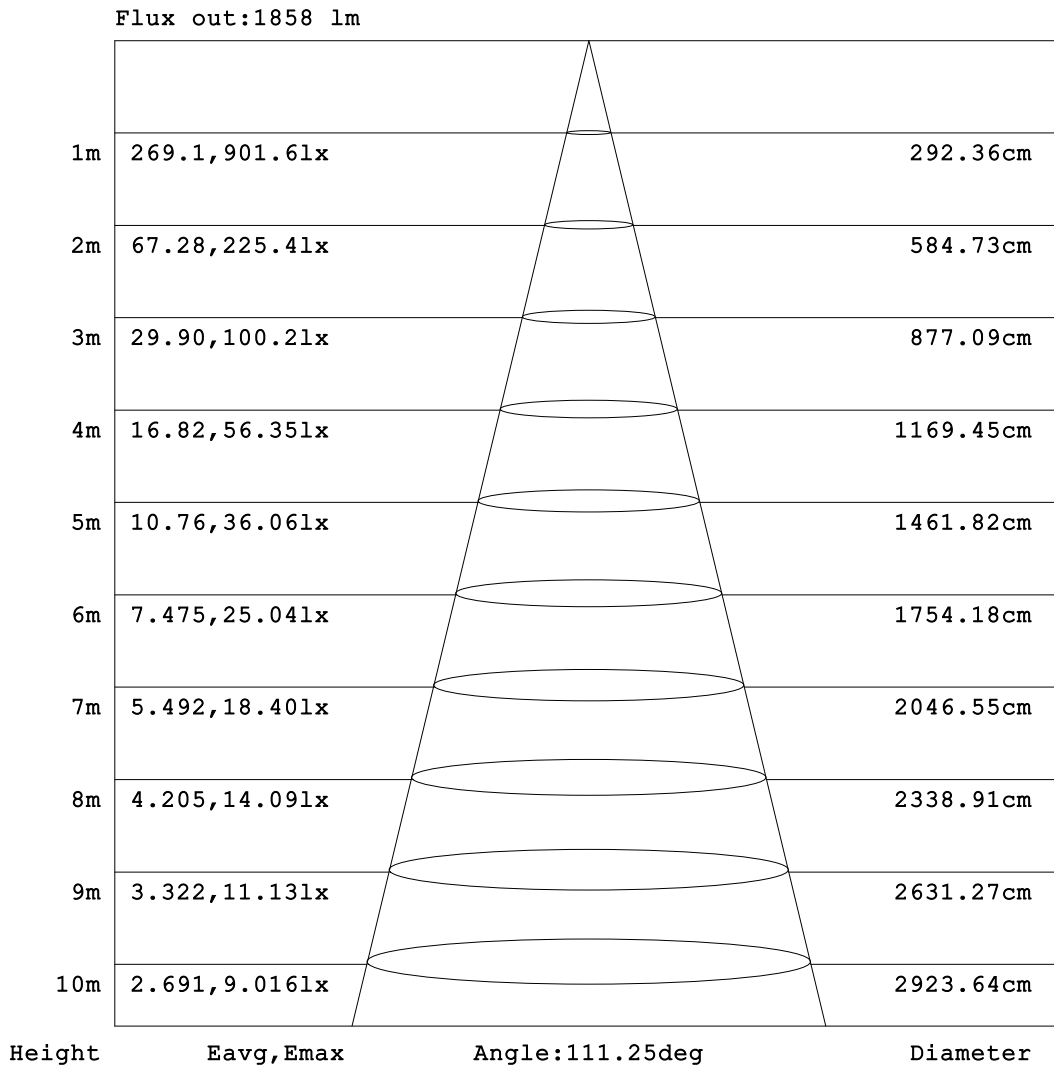


C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2025-11-27

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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:



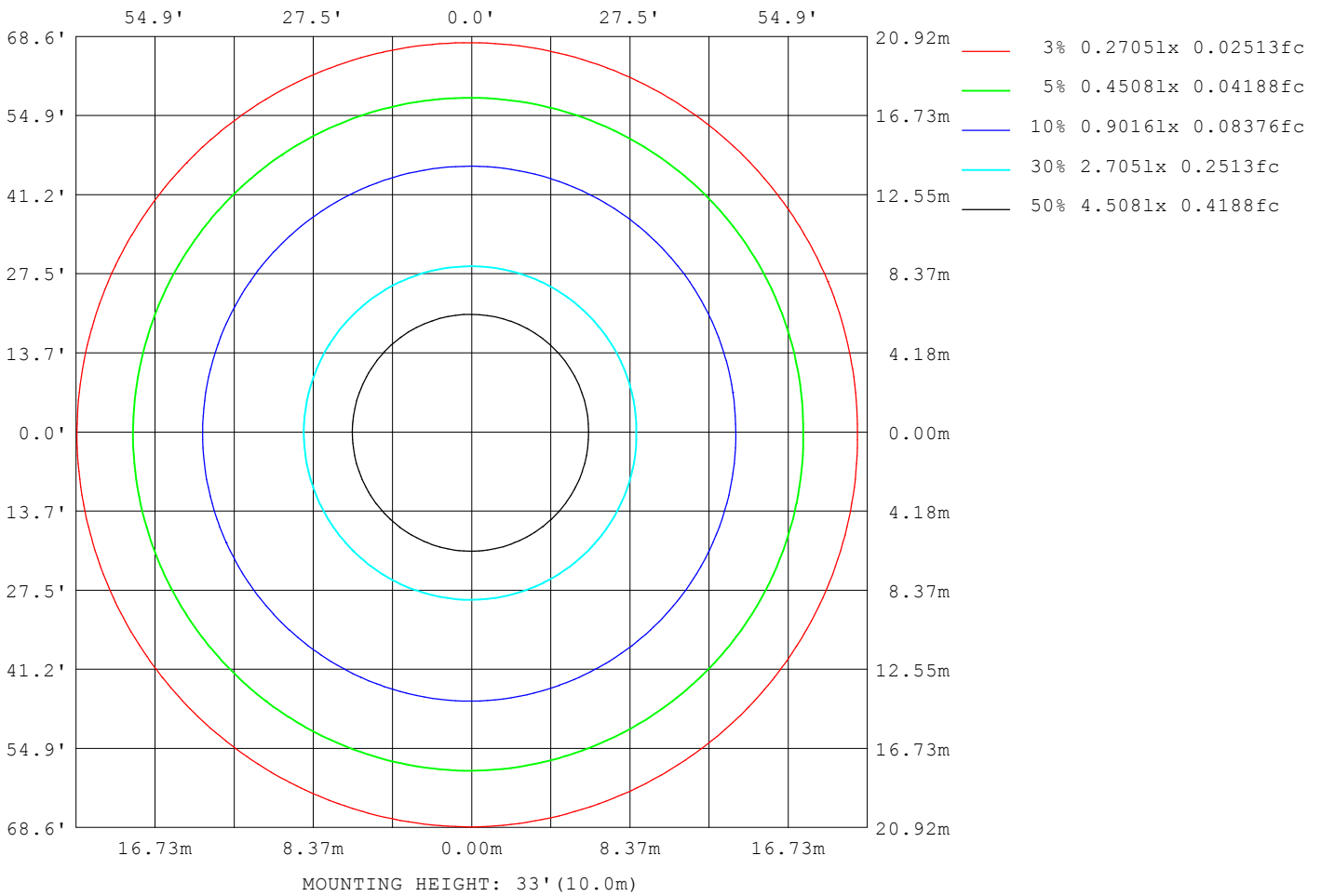
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

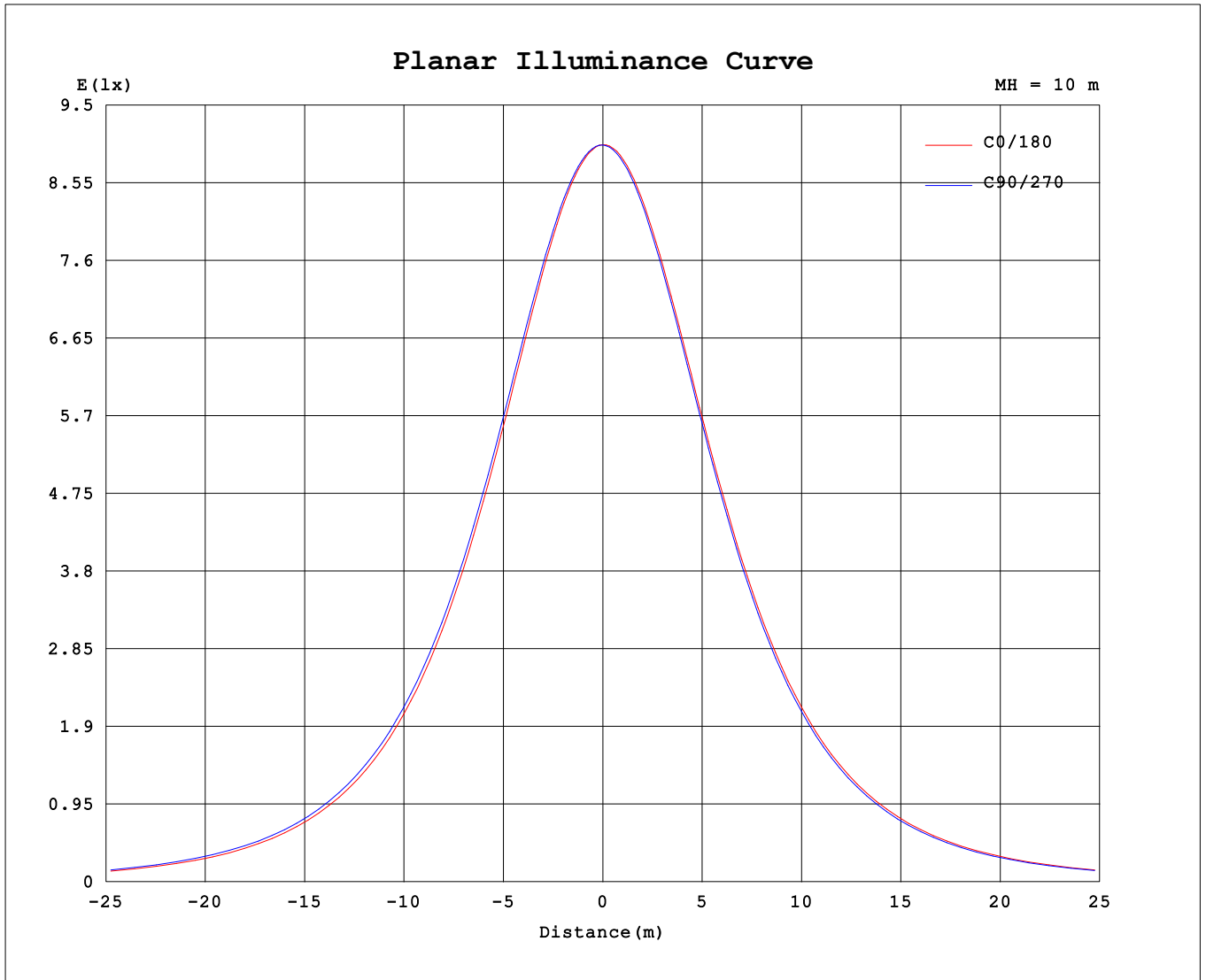
AvgL	cd/m2
L_0~180 (65) av	4454
L_0~180 (75) av	3787
L_0~180 (85) av	2465
L_90~270 (65) av	4544
L_90~270 (75) av	3967
L_90~270 (85) av	2722
L_45 (65) av	4522
L_45 (75) av	3916
L_45 (85) av	2664

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

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: 2025-11-27

$\gamma$  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:0.2652A P:31.395W PF:0.9864 Freq:59.98Hz Lamp Flux:2552.92x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	901	901	901	901															
5	896	899	899	896															
10	882	888	888	883															
15	859	868	868	861															
20	830	842	841	833															
25	792	808	807	797															
30	749	767	765	754															
35	699	719	717	704															
40	643	665	663	650															
45	582	606	604	590															
50	517	542	540	525															
55	447	474	472	456															
60	375	402	400	384															
65	300	327	325	310															
70	224	252	249	236															
75	151	177	175	163															
80	83.9	107	105	95.2															
85	26.8	44.1	44.6	34.7															
90	0.08	0.07	0.21	0.10															
95	0.12	0.14	0.17	0.15															
100	0.24	0.28	0.30	0.30															
105	0.39	0.43	0.45	0.47															
110	0.55	0.58	0.61	0.65															
115	0.69	0.72	0.78	0.83															
120	0.84	0.87	0.95	0.99															
125	0.97	1.01	1.12	1.17															
130	1.10	1.14	1.27	1.33															
135	1.22	1.25	1.42	1.48															
140	1.34	1.37	1.56	1.61															
145	1.45	1.47	1.70	1.74															
150	1.56	1.59	1.82	1.85															
155	1.68	1.71	1.94	1.97															
160	1.79	1.82	2.06	2.07															
165	1.90	1.93	2.17	2.17															
170	2.00	2.03	2.26	2.23															
175	2.10	2.13	2.27	2.25															
180	2.25	2.25	2.28	2.28															

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: