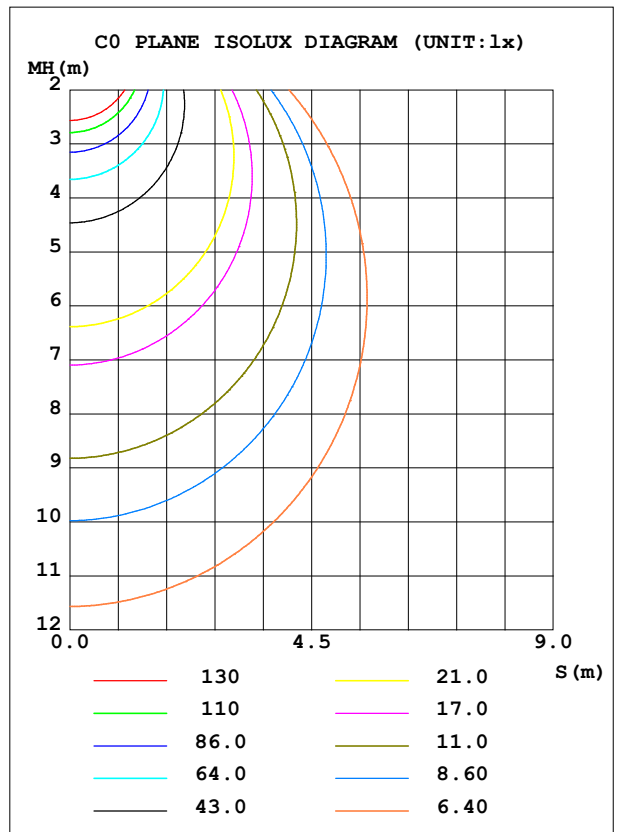
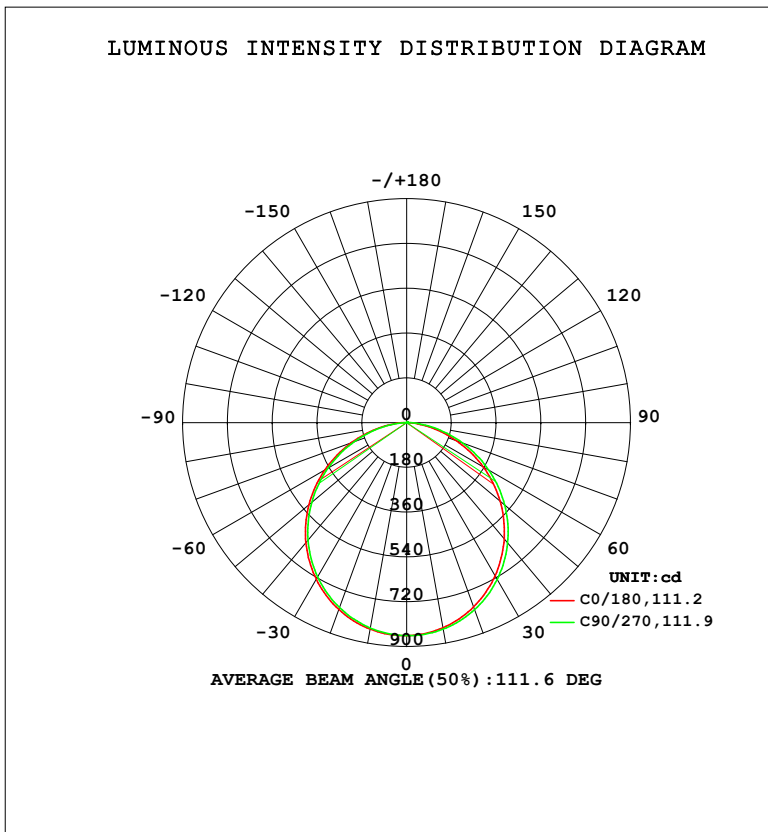


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDBK_3500K	Imax (cd)	856.3	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)	2424.2	η UP, DN (C0-180)	0.1,49.7
NOMINAL FLUX (lm)	2424.16	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,50.1
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η 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

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

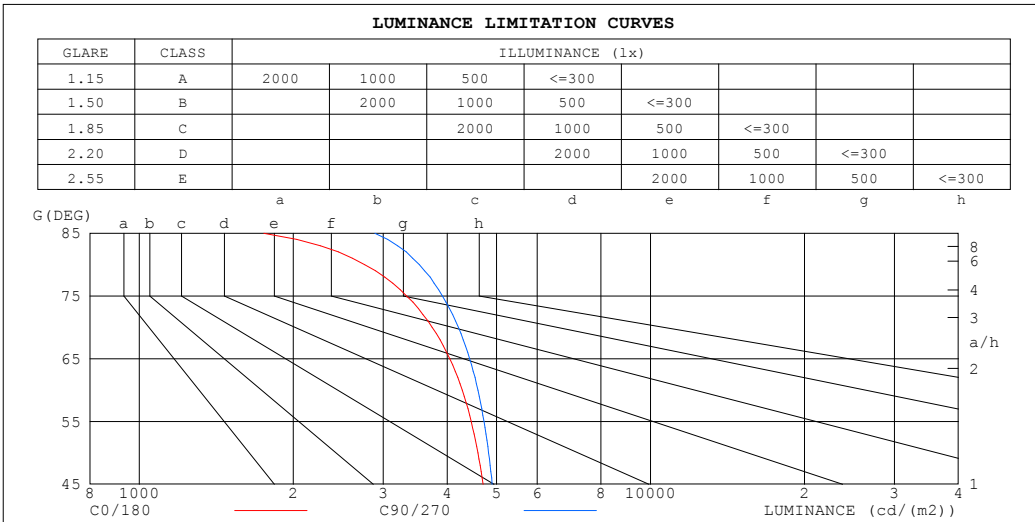
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	837.5	843.1	843.3	838.5					0- 10	80.98	80.98	3.34,3.34
20	787.9	799.5	799.0	790.8					10- 20	231.7	312.7	12.9,12.9
30	711.2	727.9	726.8	715.9					20- 30	350.5	663.2	27.4,27.4
40	610.1	631.6	630.2	616.9					30- 40	421.6	1085	44.8,44.8
50	490.4	514.4	513.2	498.4					40- 50	435.9	1521	62.7,62.7
60	355.3	381.4	380.0	364.5					50- 60	392.0	1913	78.9,78.9
70	212.5	238.9	236.7	224.0					60- 70	296.3	2209	91.1,91.1
80	79.54	101.8	99.67	90.30					70- 80	167.5	2376	98,98
90	0.0664	0.0663	0.1866	0.0942					80- 90	42.02	2419	99.8,99.8
100	0.2318	0.2599	0.2766	0.2815					90-100	0.1594	2419	99.8,99.8
110	0.5025	0.5362	0.5804	0.6129					100-110	0.4308	2419	99.8,99.8
120	0.7953	0.8289	0.8900	0.9335					110-120	0.7050	2420	99.8,99.8
130	1.044	1.078	1.199	1.248					120-130	0.8986	2421	99.9,99.9
140	1.260	1.299	1.481	1.519					130-140	0.9788	2422	99.9,99.9
150	1.481	1.509	1.735	1.751					140-150	0.9426	2423	99.9,99.9
160	1.696	1.740	1.951	1.961					150-160	0.7964	2423	100,100
170	1.906	1.917	2.138	2.110					160-170	0.5452	2424	100,100
180	2.144	2.160	2.160	2.155					170-180	0.1967	2424	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

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:

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1751	2889
80	2759	3530
75	3333	3919
70	3742	4208
65	4050	4426
60	4280	4595
55	4458	4723
50	4595	4821
45	4706	4900

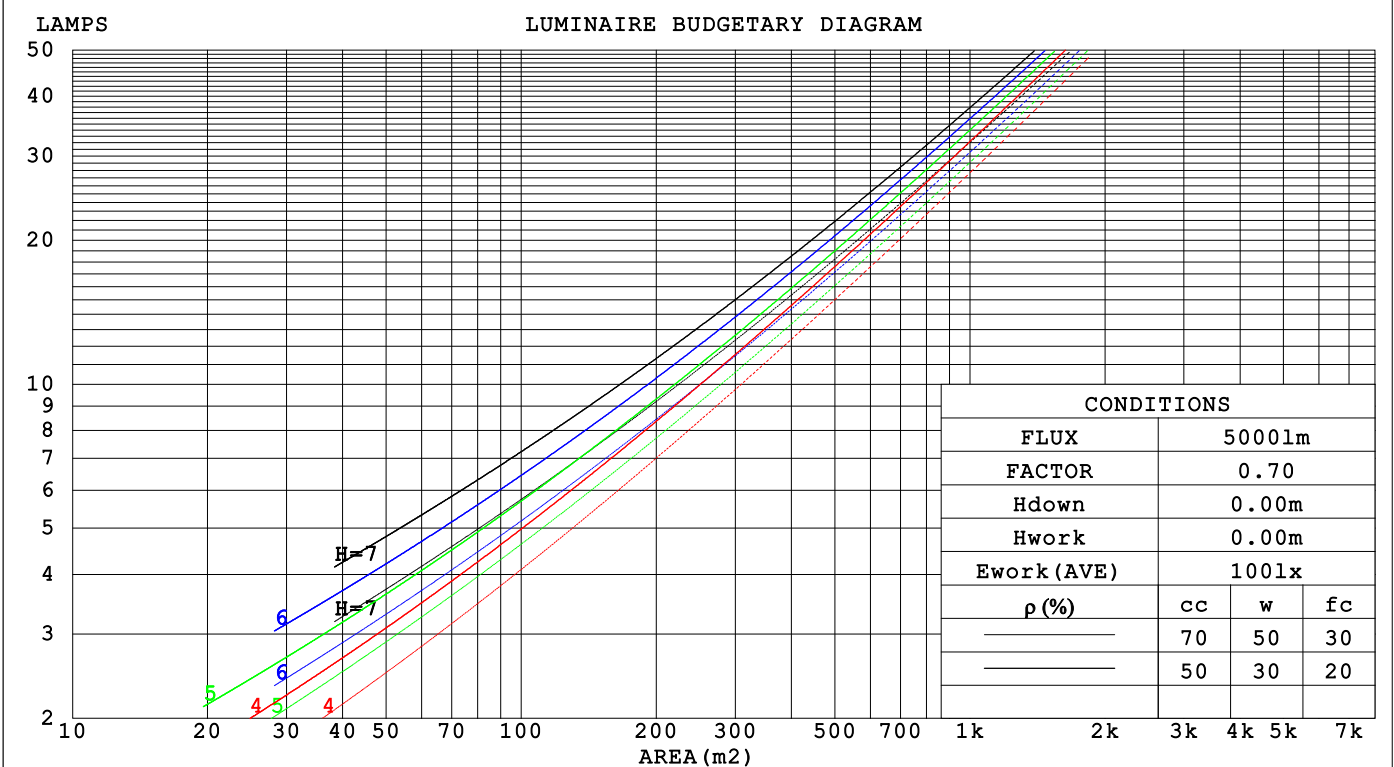
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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

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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{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	.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 _{CC}	80%			70%			50%			30%			10%			0
ρ _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{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	.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

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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
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	18.0	19.5	18.3	19.7	19.9	18.3	19.8	18.5	20.0	20.2
3H	19.4	20.8	19.7	21.1	21.3	19.8	21.2	20.1	21.4	21.7
4H	19.9	21.3	20.3	21.5	21.8	20.4	21.7	20.7	22.0	22.3
6H	20.3	21.5	20.6	21.8	22.1	20.8	22.1	21.2	22.4	22.7
8H	20.4	21.6	20.7	21.9	22.2	21.0	22.2	21.3	22.5	22.8
12H	20.4	21.5	20.7	21.8	22.2	21.1	22.2	21.4	22.5	22.8
4H 2H	18.6	20.0	19.0	20.2	20.5	18.8	20.2	19.1	20.4	20.7
3H	20.2	21.4	20.6	21.7	22.0	20.5	21.7	20.9	22.0	22.3
4H	20.9	21.9	21.3	22.3	22.6	21.3	22.3	21.7	22.7	23.0
6H	21.3	22.3	21.7	22.6	23.0	21.8	22.8	22.2	23.1	23.5
8H	21.4	22.3	21.9	22.7	23.1	22.0	22.9	22.4	23.3	23.7
12H	21.5	22.3	21.9	22.7	23.1	22.2	23.0	22.6	23.3	23.8
8H 4H	21.1	22.0	21.6	22.4	22.8	21.5	22.4	21.9	22.8	23.1
6H	21.7	22.5	22.2	22.9	23.3	22.2	22.9	22.7	23.3	23.8
8H	21.9	22.6	22.4	23.0	23.5	22.5	23.1	22.9	23.6	24.0
12H	22.0	22.6	22.5	23.0	23.5	22.7	23.2	23.1	23.7	24.2
12H 4H	21.2	22.0	21.6	22.4	22.8	21.5	22.3	21.9	22.7	23.1
6H	21.8	22.4	22.3	22.9	23.3	22.2	22.9	22.7	23.3	23.8
8H	22.0	22.6	22.5	23.0	23.5	22.5	23.1	23.0	23.6	24.0

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, 2424 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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

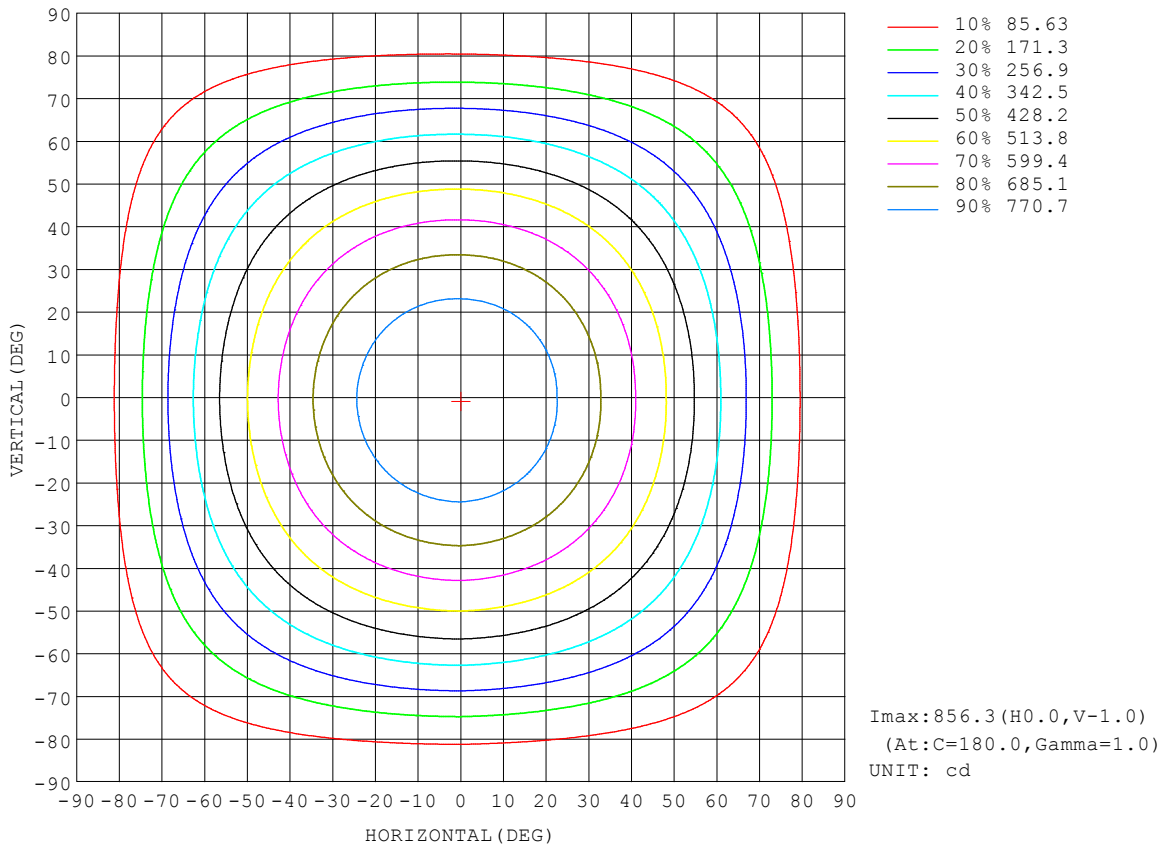
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	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	70	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

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:

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz		
Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

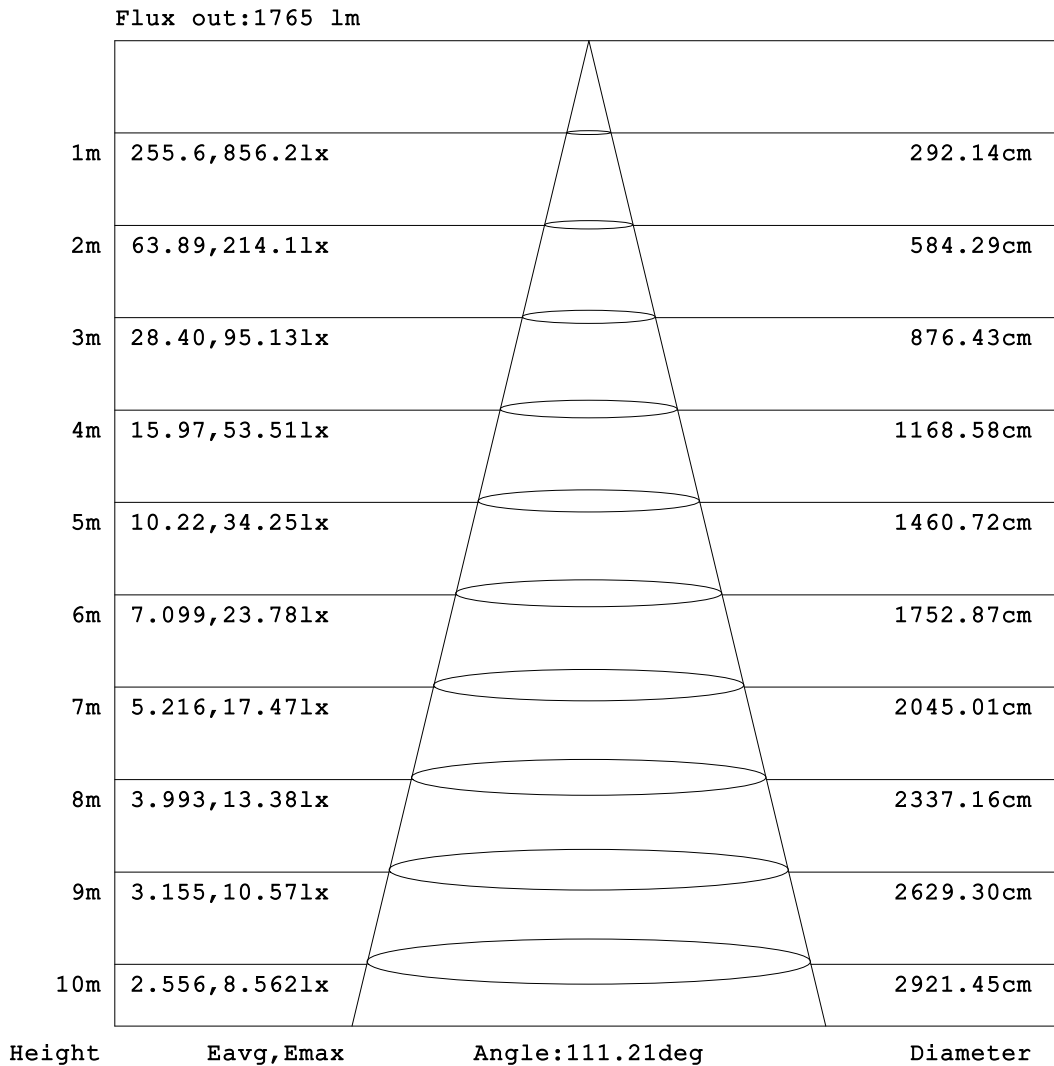


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-11-27

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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:



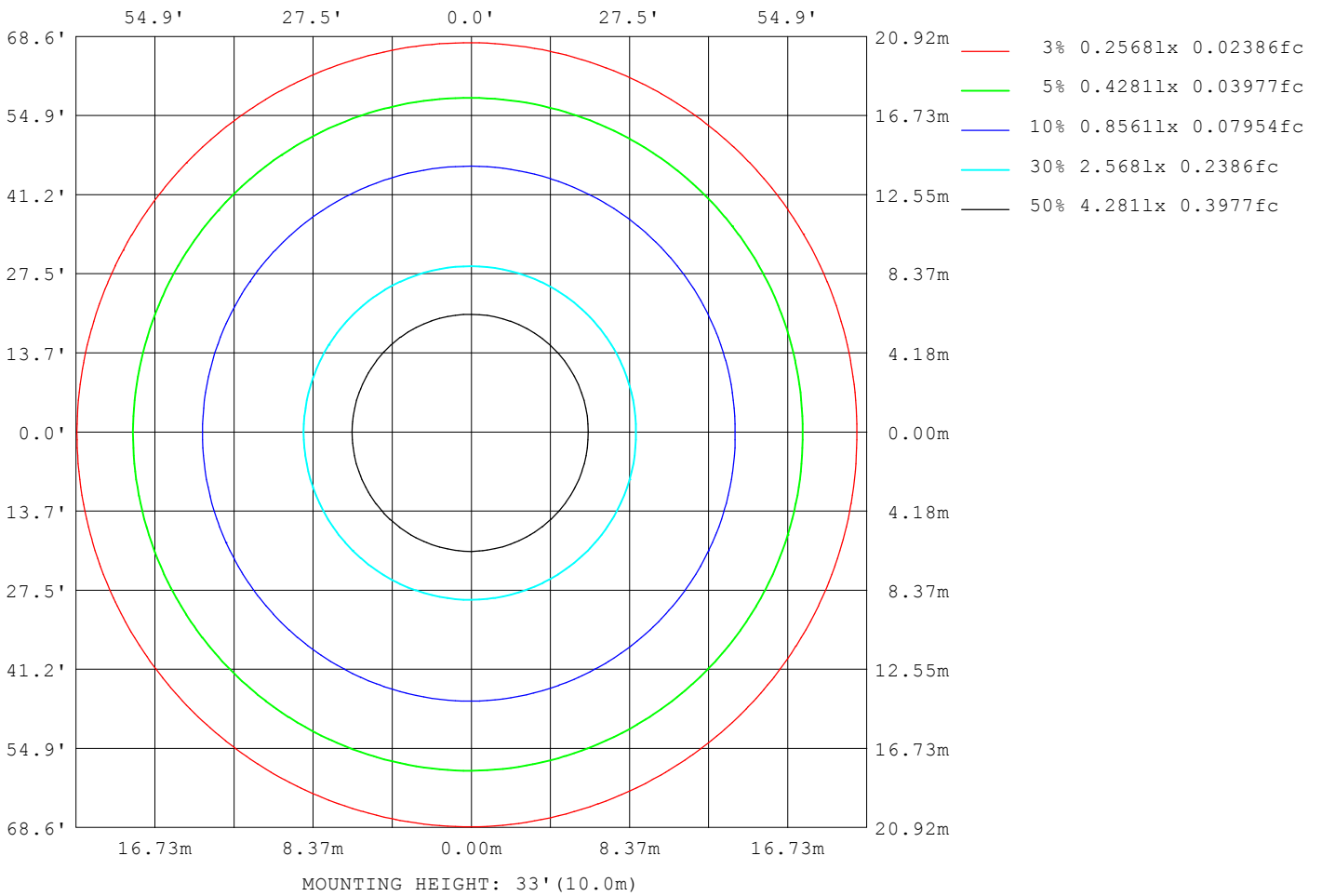
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
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:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

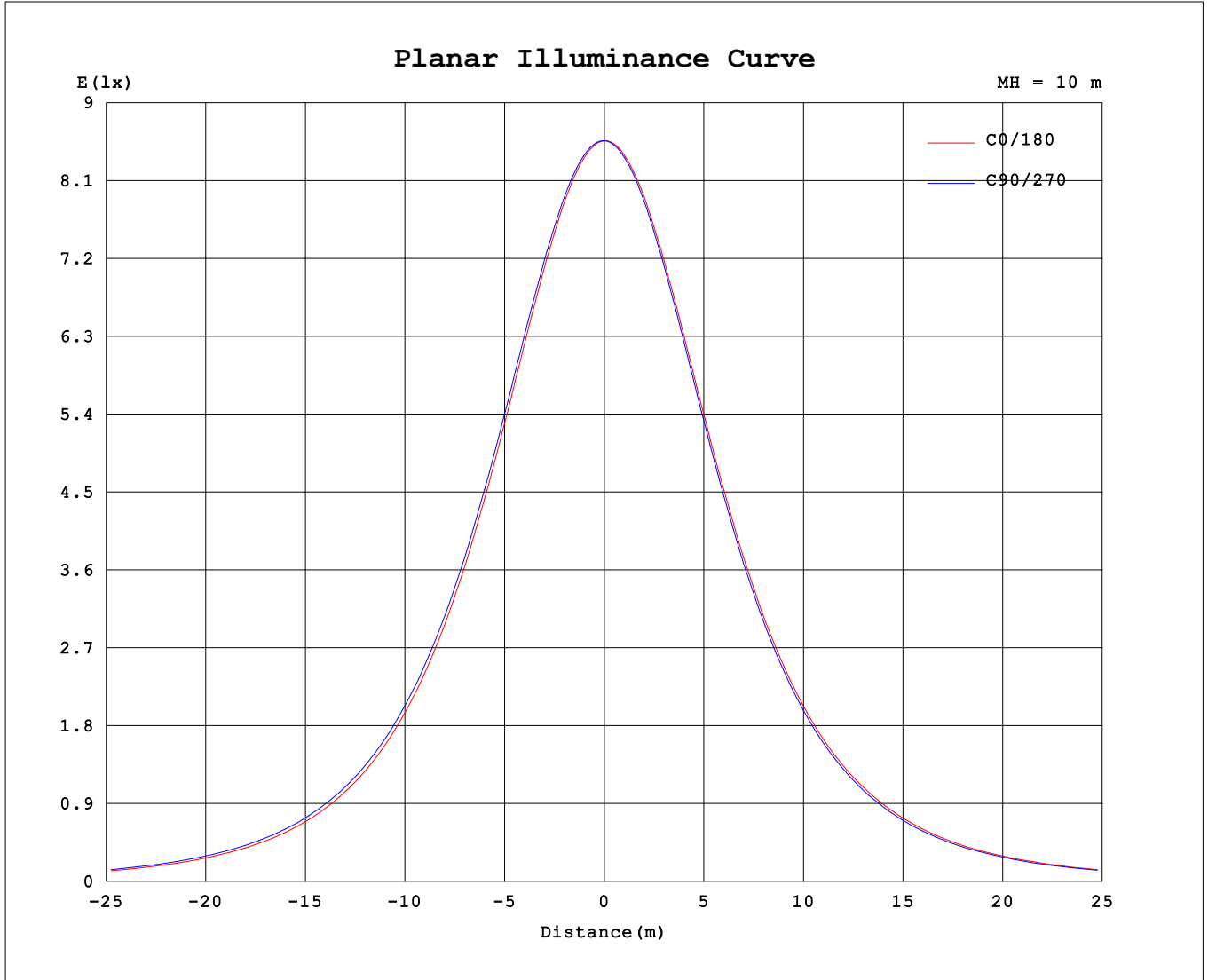
AvgL	cd/m2
L_0~180 (65) av	4228
L_0~180 (75) av	3596
L_0~180 (85) av	2342
L_90~270 (65) av	4312
L_90~270 (75) av	3765
L_90~270 (85) av	2582
L_45 (65) av	4291
L_45 (75) av	3718
L_45 (85) av	2529

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

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.2609A P:30.887W PF:0.9861 Freq:59.98Hz Lamp Flux:2424.16x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3500K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	856	856	856	856															
5	851	853	854	851															
10	837	843	843	839															
15	816	825	825	818															
20	788	799	799	791															
25	753	767	766	757															
30	711	728	727	716															
35	663	683	681	669															
40	610	632	630	617															
45	552	575	574	560															
50	490	514	513	498															
55	424	450	448	433															
60	355	381	380	365															
65	284	310	309	295															
70	212	239	237	224															
75	143	168	166	155															
80	79.5	102	99.7	90.3															
85	25.3	41.8	42.4	32.9															
90	0.07	0.07	0.19	0.09															
95	0.10	0.13	0.14	0.15															
100	0.23	0.26	0.28	0.28															
105	0.38	0.39	0.42	0.45															
110	0.50	0.54	0.58	0.61															
115	0.65	0.69	0.74	0.77															
120	0.80	0.83	0.89	0.93															
125	0.92	0.96	1.04	1.09															
130	1.04	1.08	1.20	1.25															
135	1.15	1.19	1.34	1.39															
140	1.26	1.30	1.48	1.52															
145	1.36	1.40	1.60	1.64															
150	1.48	1.51	1.74	1.75															
155	1.59	1.62	1.84	1.85															
160	1.70	1.74	1.95	1.96															
165	1.80	1.83	2.07	2.04															
170	1.91	1.92	2.14	2.11															
175	1.99	2.02	2.15	2.14															
180	2.14	2.16	2.16	2.15															

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: