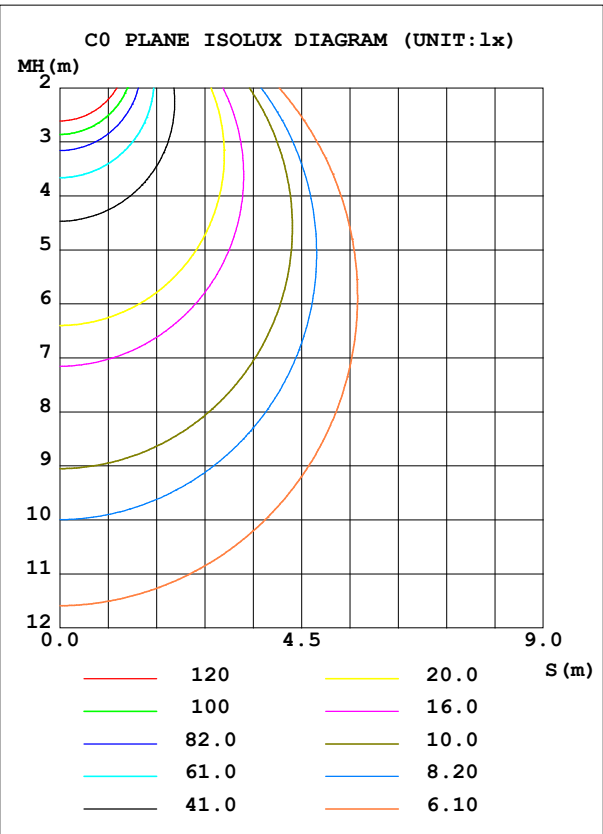
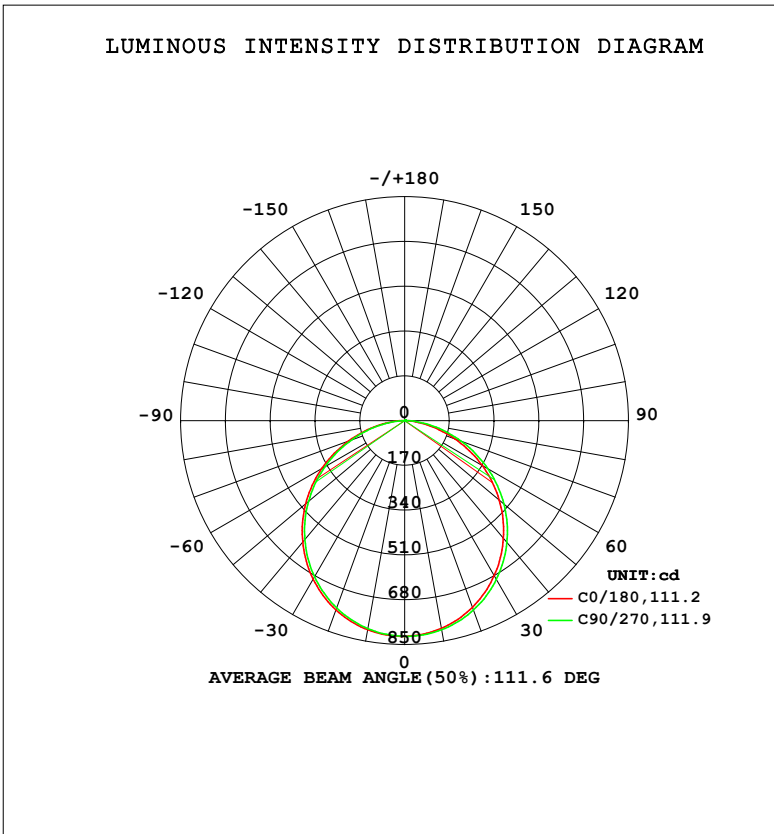


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDBK_3000K	Imax (cd)	818.9	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)	2317.6	η UP, DN (C0-180)	0.1,49.7
NOMINAL FLUX (lm)	2317.58	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:

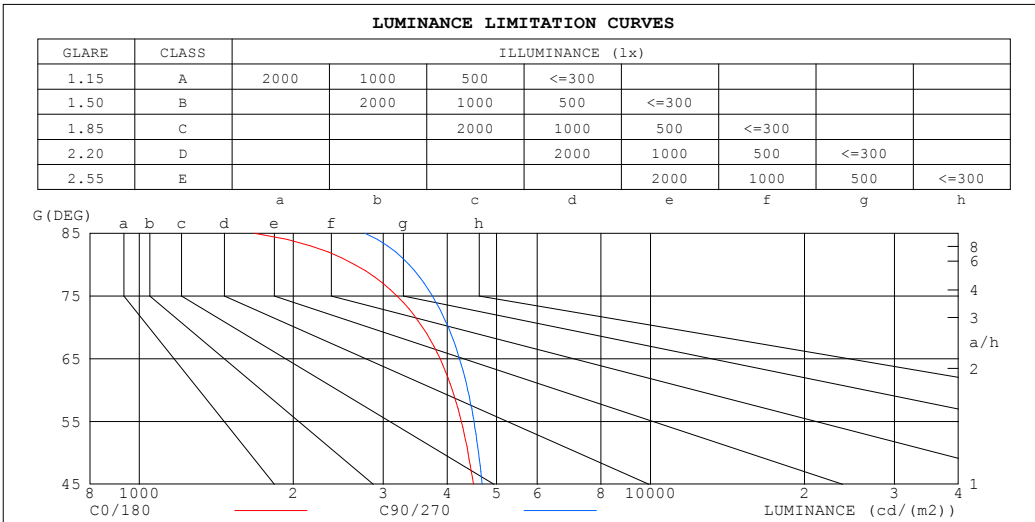
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	800.8	806.1	806.2	801.8					0- 10	77.44	77.44	3.34,3.34
20	753.4	764.5	764.1	756.2					10- 20	221.6	299.0	12.9,12.9
30	679.9	696.3	695.0	684.5					20- 30	335.2	634.2	27.4,27.4
40	583.3	603.8	602.1	589.9					30- 40	403.1	1037	44.8,44.8
50	468.7	492.0	490.5	476.4					40- 50	416.7	1454	62.7,62.7
60	339.8	364.7	363.2	348.4					50- 60	374.7	1829	78.9,78.9
70	203.1	228.5	226.2	214.1					60- 70	283.2	2112	91.1,91.1
80	75.99	97.21	95.34	86.21					70- 80	160.1	2272	98,98
90	0.0608	0.0553	0.1864	0.0832					80- 90	40.16	2312	99.8,99.8
100	0.2151	0.2435	0.2707	0.2652					90-100	0.1474	2312	99.8,99.8
110	0.4800	0.5144	0.5469	0.5692					100-110	0.4073	2313	99.8,99.8
120	0.7508	0.7852	0.8561	0.8952					110-120	0.6690	2313	99.8,99.8
130	0.9883	1.023	1.149	1.177					120-130	0.8546	2314	99.9,99.9
140	1.198	1.233	1.419	1.459					130-140	0.9326	2315	99.9,99.9
150	1.424	1.438	1.657	1.681					140-150	0.8989	2316	99.9,99.9
160	1.629	1.648	1.867	1.868					150-160	0.7610	2317	100,100
170	1.805	1.841	2.040	2.007					160-170	0.5210	2317	100,100
180	2.032	2.034	2.060	2.051					170-180	0.1874	2318	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:120.04V I:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:



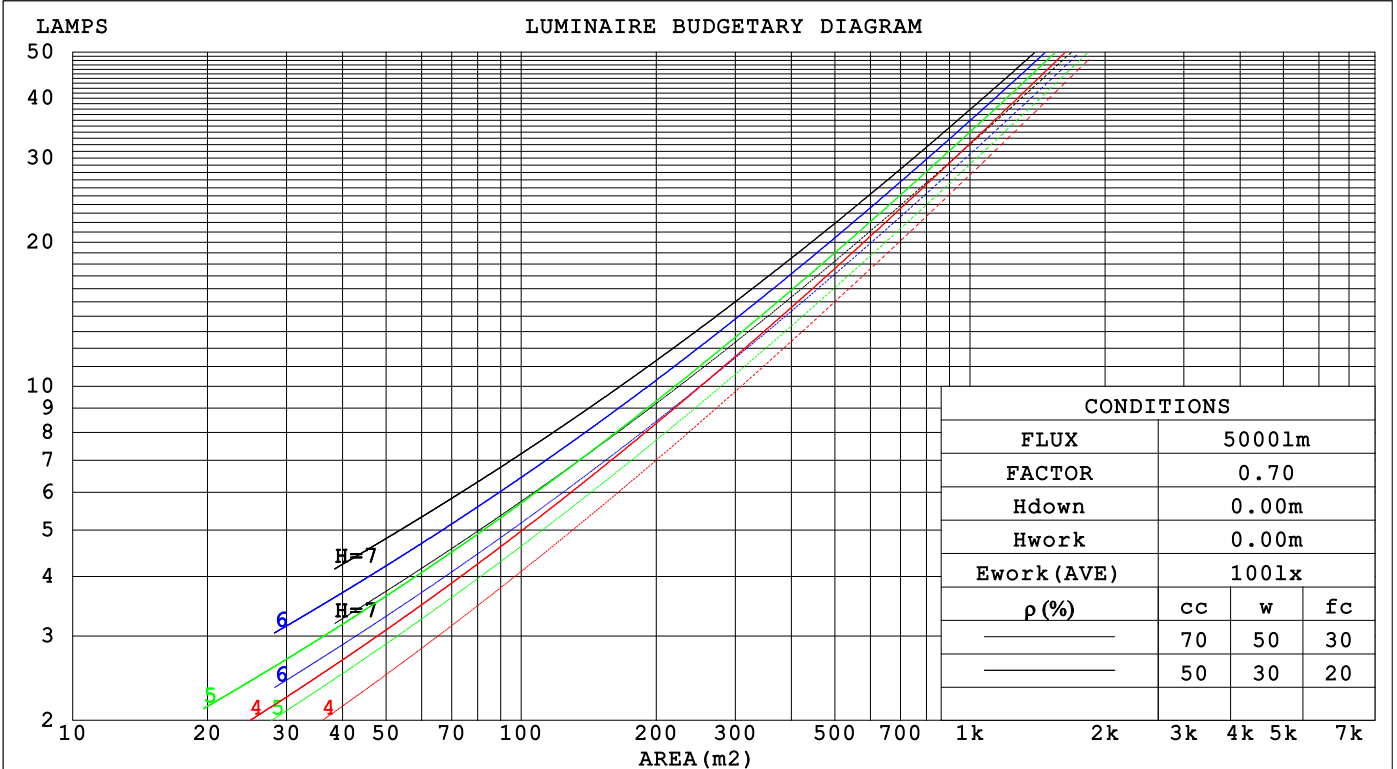
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

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:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:120.04V I:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz								
Lamp Flux:2317.58x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.:			SERIAL No.: 3000K		
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	.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 _{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	.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:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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	17.9	19.4	18.1	19.6	19.8	18.1	19.6	18.4	19.8	20.0
3H	19.3	20.7	19.6	20.9	21.2	19.6	21.0	19.9	21.3	21.5
4H	19.8	21.1	20.1	21.4	21.6	20.2	21.6	20.6	21.8	22.1
6H	20.1	21.4	20.5	21.7	21.9	20.7	21.9	21.0	22.2	22.5
8H	20.2	21.4	20.6	21.7	22.0	20.8	22.0	21.2	22.3	22.6
12H	20.2	21.4	20.6	21.7	22.0	20.9	22.1	21.3	22.4	22.7
4H 2H	18.5	19.8	18.8	20.1	20.3	18.7	20.0	19.0	20.3	20.5
3H	20.1	21.2	20.4	21.5	21.9	20.4	21.6	20.7	21.8	22.2
4H	20.7	21.8	21.1	22.1	22.5	21.1	22.2	21.5	22.5	22.8
6H	21.2	22.1	21.6	22.5	22.8	21.7	22.6	22.1	23.0	23.4
8H	21.3	22.2	21.7	22.5	22.9	21.9	22.8	22.3	23.1	23.5
12H	21.3	22.2	21.8	22.5	23.0	22.0	22.8	22.4	23.2	23.6
8H 4H	21.0	21.9	21.4	22.2	22.6	21.3	22.2	21.8	22.6	23.0
6H	21.6	22.3	22.0	22.7	23.2	22.0	22.8	22.5	23.2	23.6
8H	21.8	22.4	22.2	22.8	23.3	22.3	23.0	22.8	23.4	23.8
12H	21.9	22.4	22.4	22.9	23.4	22.5	23.1	23.0	23.5	24.0
12H 4H	21.0	21.8	21.4	22.2	22.6	21.3	22.2	21.8	22.5	23.0
6H	21.6	22.3	22.1	22.7	23.2	22.1	22.7	22.6	23.2	23.6
8H	21.9	22.4	22.3	22.9	23.4	22.4	22.9	22.9	23.4	23.9

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, 2318 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.9)
Area: 0.166 m2

C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:8.800m [K=1.0000]
Test Date:2025-11-27	Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.04V I:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

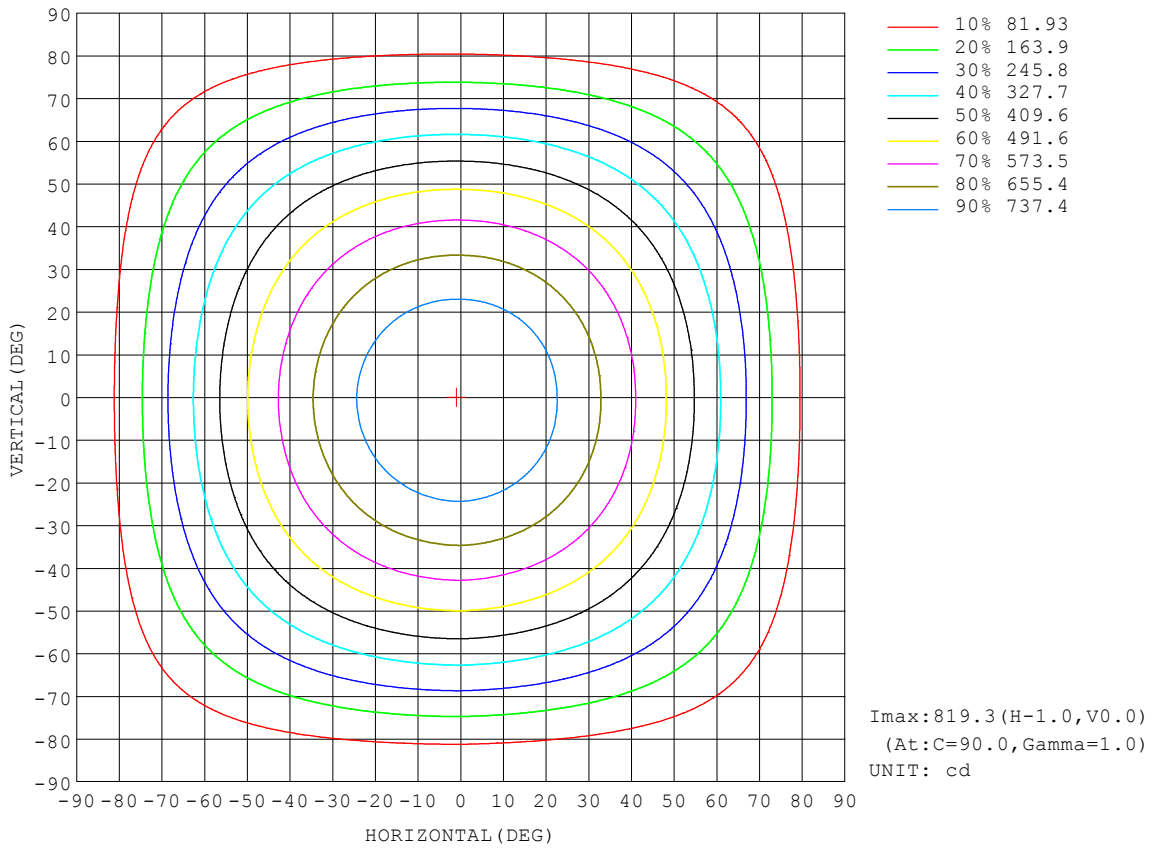
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	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:120.04V I:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

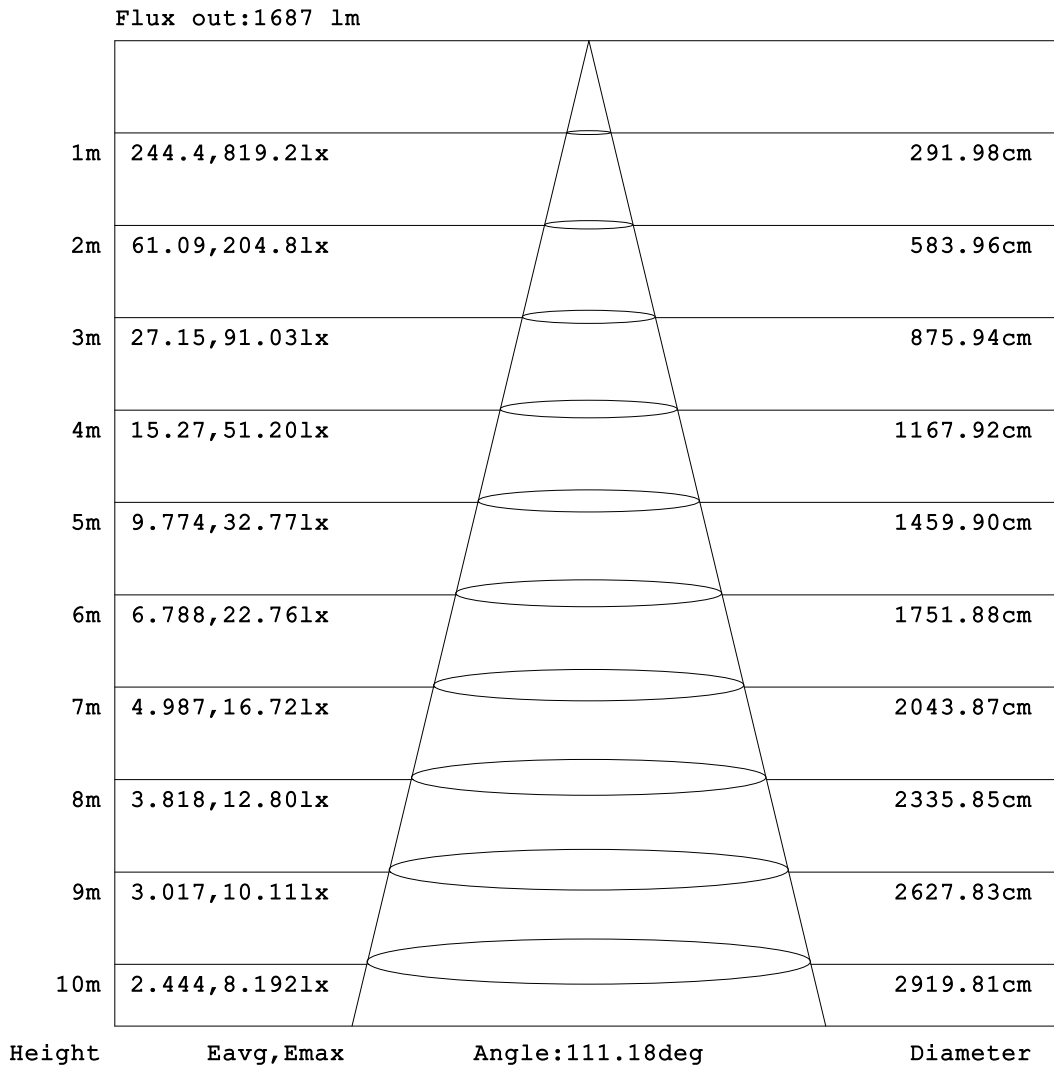


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

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:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:



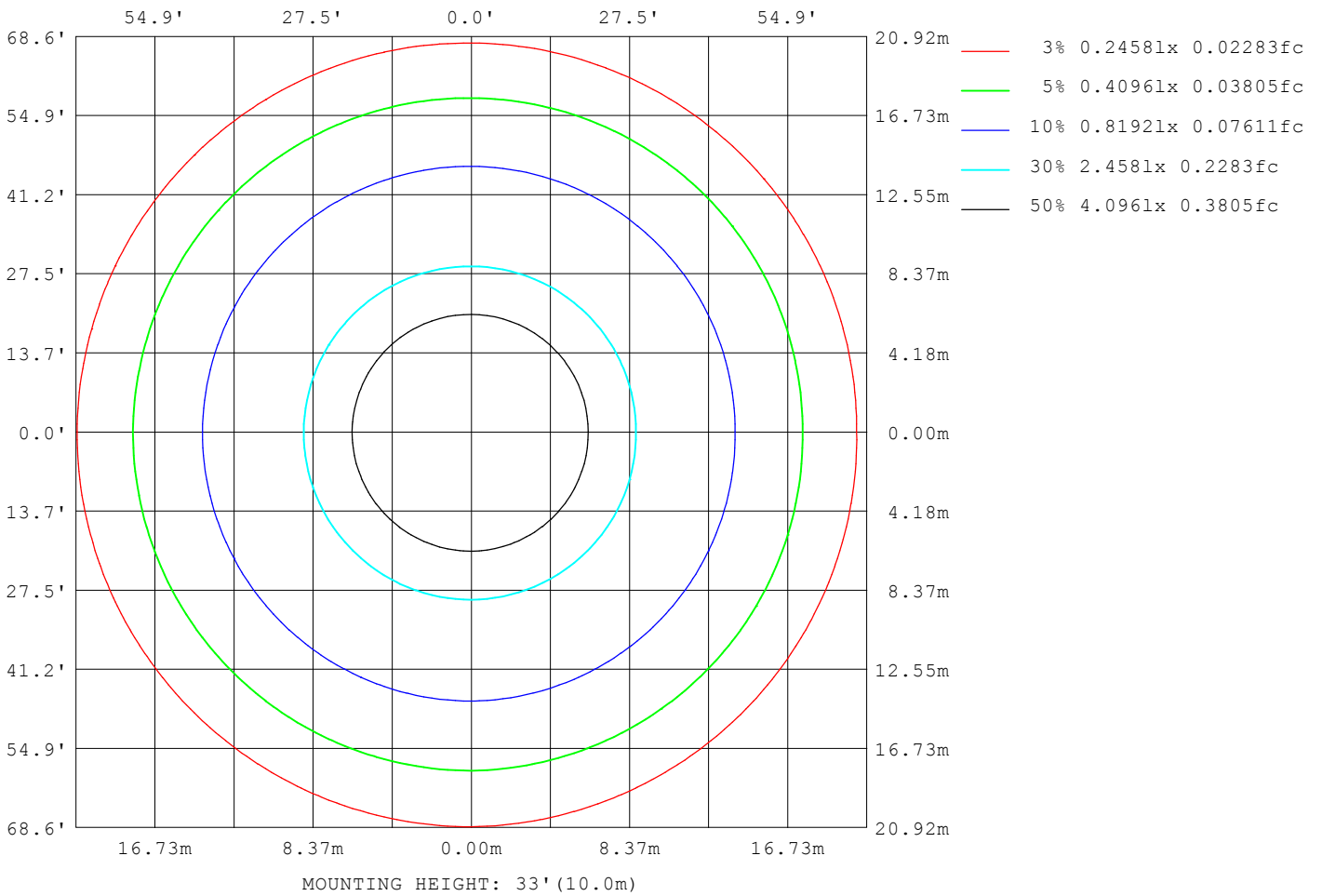
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
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:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

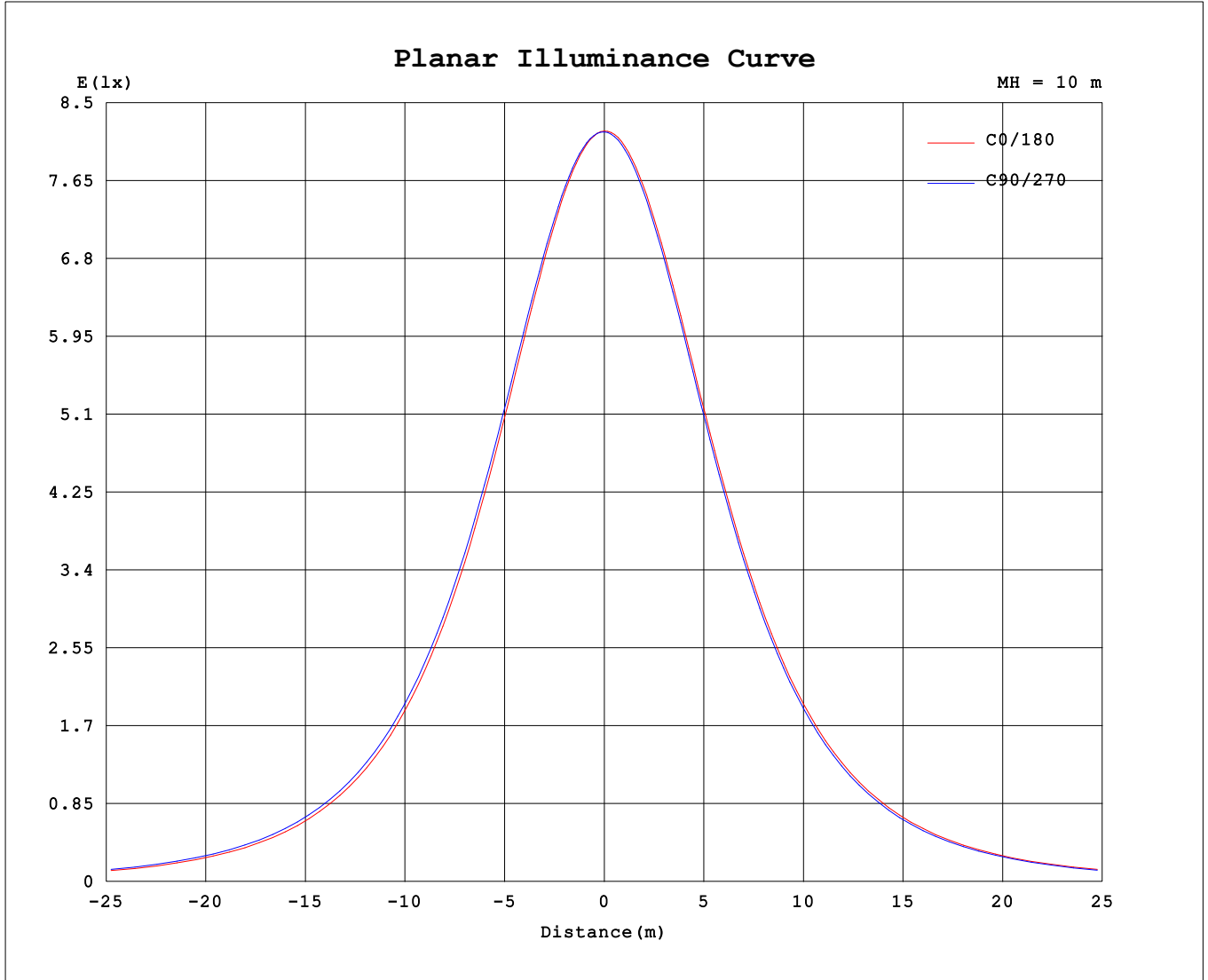
AvgL	cd/m2
L_0~180 (65) av	4040
L_0~180 (75) av	3437
L_0~180 (85) av	2239
L_90~270 (65) av	4123
L_90~270 (75) av	3599
L_90~270 (85) av	2465
L_45 (65) av	4102
L_45 (75) av	3554
L_45 (85) av	2415

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:120.04V I:0.2660A P:31.500W PF:0.9864 Freq:59.98Hz Lamp Flux:2317.58x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 3000K
MFR.:	SUR.: 0.46	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	819	819	819	819															
5	814	816	816	814															
10	801	806	806	802															
15	781	789	789	782															
20	753	765	764	756															
25	720	734	733	723															
30	680	696	695	685															
35	634	653	651	640															
40	583	604	602	590															
45	528	550	548	535															
50	469	492	491	476															
55	406	430	428	414															
60	340	365	363	348															
65	272	297	295	282															
70	203	229	226	214															
75	137	161	158	148															
80	76.0	97.2	95.3	86.2															
85	24.3	40.0	40.5	31.3															
90	0.06	0.06	0.19	0.08															
95	0.09	0.13	0.14	0.13															
100	0.22	0.24	0.27	0.27															
105	0.34	0.39	0.40	0.41															
110	0.48	0.51	0.55	0.57															
115	0.62	0.65	0.70	0.73															
120	0.75	0.79	0.86	0.90															
125	0.87	0.91	1.00	1.04															
130	0.99	1.02	1.15	1.18															
135	1.10	1.13	1.28	1.33															
140	1.20	1.23	1.42	1.46															
145	1.30	1.34	1.54	1.56															
150	1.42	1.44	1.66	1.68															
155	1.51	1.55	1.77	1.77															
160	1.63	1.65	1.87	1.87															
165	1.73	1.76	1.97	1.97															
170	1.81	1.84	2.04	2.01															
175	1.90	1.94	2.05	2.04															
180	2.03	2.03	2.06	2.05															

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: