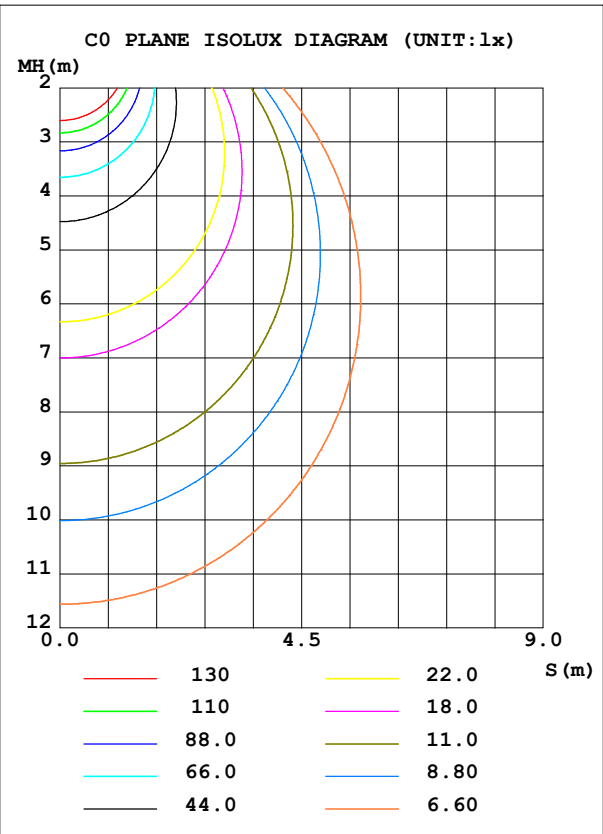
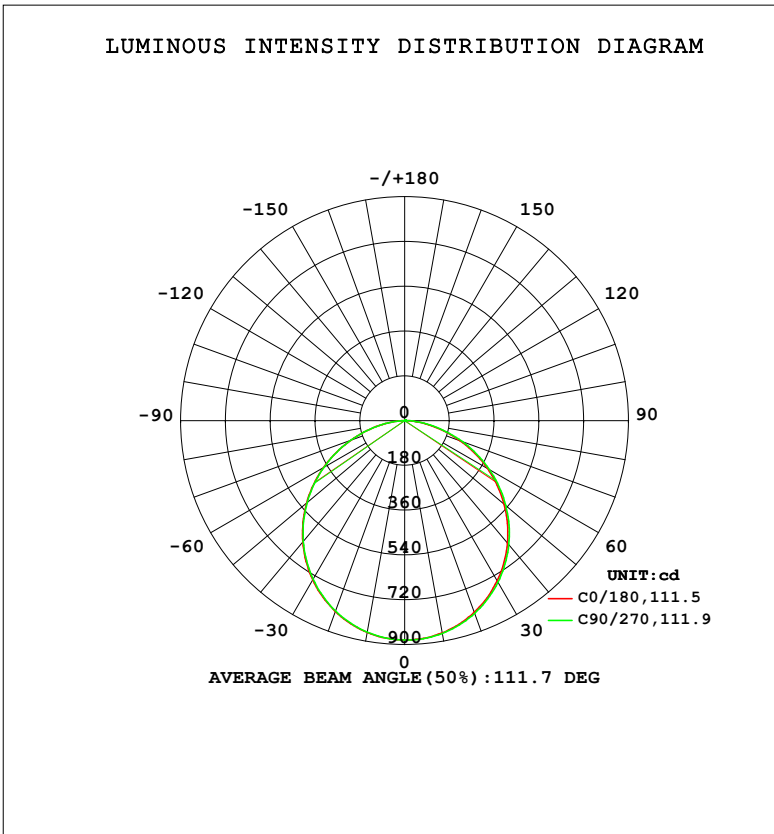


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EGRF2030LAJUDSN_5000K	Imax (cd)	882.0	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)	2501.2	η UP, DN (C0-180)	0.1,50.6
NOMINAL FLUX (lm)	2501.22	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1,49.2
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:

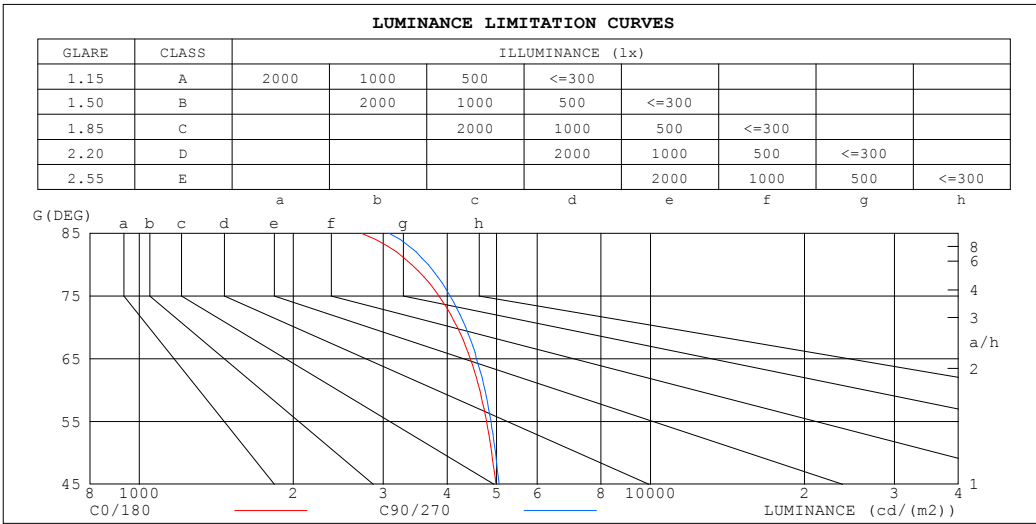
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	866.5	868.5	864.8	863.2					0- 10	83.41	83.41	3.33,3.33
20	819.5	823.8	816.2	813.9					10- 20	238.7	322.1	12.9,12.9
30	743.8	750.5	739.1	736.2					20- 30	361.1	683.2	27.3,27.3
40	642.9	651.1	637.1	634.2					30- 40	434.5	1118	44.7,44.7
50	521.8	530.6	514.9	511.8					40- 50	449.3	1567	62.7,62.7
60	384.5	393.7	376.6	374.1					50- 60	404.3	1971	78.8,78.8
70	237.8	247.0	229.5	229.1					60- 70	306.0	2277	91.1,91.1
80	98.33	105.9	91.37	91.70					70- 80	173.7	2451	98,98
90	0.0991	0.0719	0.0995	0.0943					80- 90	44.20	2495	99.8,99.8
100	0.2263	0.2820	0.3373	0.3147					90-100	0.1800	2495	99.8,99.8
110	0.5133	0.5638	0.6522	0.6407					100-110	0.4596	2496	99.8,99.8
120	0.7952	0.8622	0.9727	0.9887					110-120	0.7404	2497	99.8,99.8
130	1.049	1.122	1.288	1.298					120-130	0.9391	2498	99.9,99.9
140	1.287	1.343	1.564	1.586					130-140	1.019	2499	99.9,99.9
150	1.525	1.569	1.823	1.823					140-150	0.9798	2500	99.9,99.9
160	1.784	1.807	2.050	2.044					150-160	0.8302	2500	100,100
170	2.072	2.128	2.287	2.227					160-170	0.5772	2501	100,100
180	2.276	2.288	2.315	2.293					170-180	0.2134	2501	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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2718	3078
80	3411	3674
75	3857	4057
70	4189	4350
65	4442	4563
60	4633	4743
55	4778	4873
50	4891	4972
45	4981	5052

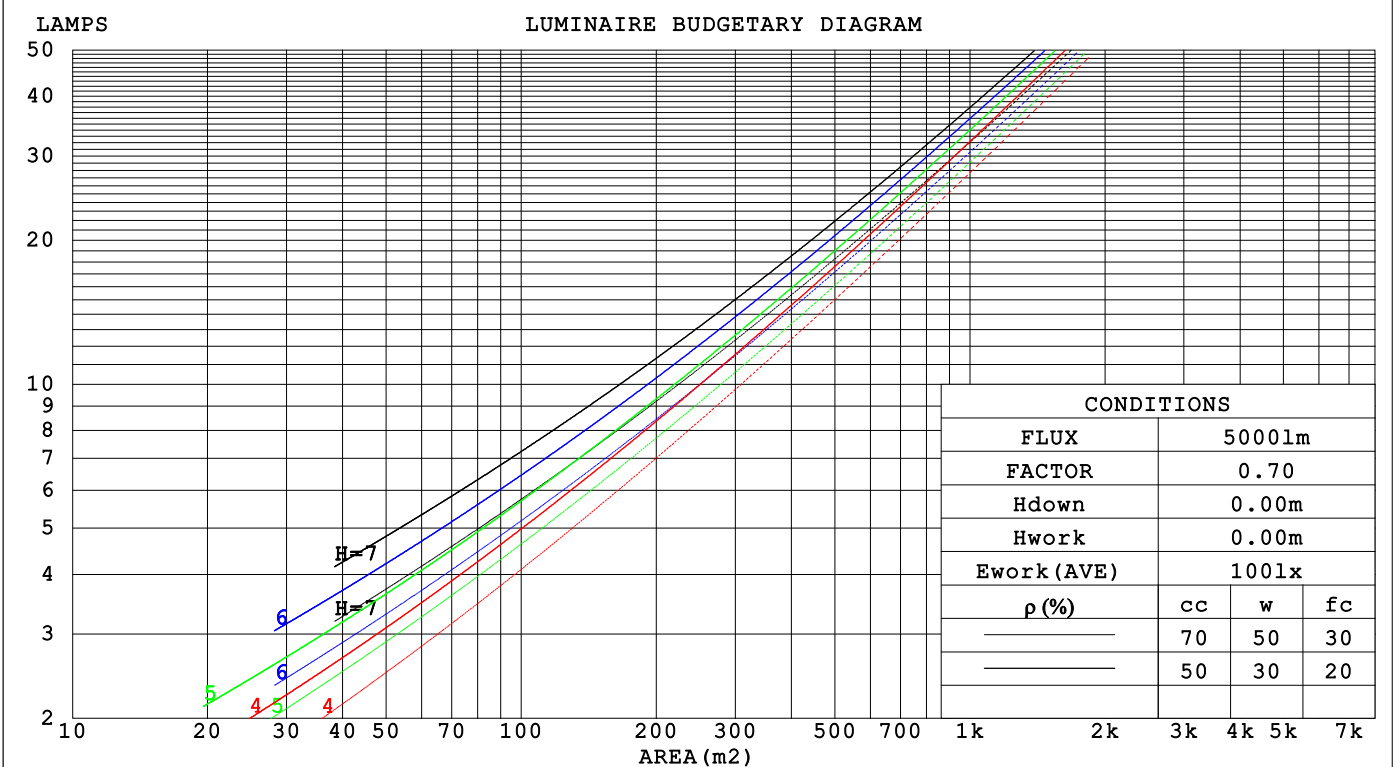
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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	.69
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	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.57	.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	.28	.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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz		
Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
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	.301	.172	.055	.288	.165	.053	.275	.159	.051	.264	.153	.049	
2.0	.291	.159	.049	.284	.157	.048	.272	.152	.047	.262	.147	.046	.252	.142	.045	
3.0	.269	.143	.043	.264	.141	.042	.253	.137	.042	.243	.133	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.226	.116	.034	.217	.113	.033	.210	.111	.033	.202	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.101	.030	.189	.099	.030	
7.0	.199	.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	.077	.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	.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	.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	.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	.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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 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	18.3	19.9	18.6	20.1	20.3	18.4	19.9	18.7	20.1	20.4
3H	19.8	21.2	20.1	21.5	21.7	20.0	21.4	20.3	21.6	21.8
4H	20.4	21.8	20.7	22.0	22.3	20.6	21.9	20.9	22.2	22.4
6H	20.8	22.1	21.2	22.4	22.7	21.0	22.3	21.4	22.6	22.8
8H	21.0	22.2	21.3	22.5	22.8	21.2	22.4	21.5	22.7	23.0
12H	21.0	22.2	21.4	22.5	22.8	21.2	22.4	21.6	22.7	23.0
4H 2H	19.0	20.3	19.3	20.5	20.8	19.0	20.4	19.3	20.6	20.9
3H	20.6	21.8	21.0	22.1	22.4	20.7	21.9	21.1	22.2	22.5
4H	21.4	22.4	21.7	22.7	23.1	21.5	22.6	21.9	22.9	23.2
6H	21.9	22.8	22.3	23.2	23.6	22.1	23.0	22.5	23.4	23.7
8H	22.1	23.0	22.5	23.3	23.7	22.3	23.1	22.7	23.5	23.9
12H	22.2	23.0	22.6	23.4	23.8	22.4	23.2	22.8	23.6	24.0
8H 4H	21.6	22.5	22.0	22.9	23.3	21.7	22.6	22.2	23.0	23.4
6H	22.3	23.0	22.8	23.5	23.9	22.5	23.2	22.9	23.6	24.0
8H	22.6	23.2	23.0	23.6	24.1	22.7	23.4	23.2	23.8	24.3
12H	22.7	23.3	23.2	23.8	24.2	22.9	23.5	23.4	24.0	24.4
12H 4H	21.6	22.5	22.1	22.8	23.3	21.8	22.6	22.2	23.0	23.4
6H	22.4	23.0	22.8	23.5	23.9	22.5	23.2	23.0	23.6	24.1
8H	22.7	23.2	23.2	23.7	24.2	22.8	23.4	23.3	23.8	24.3

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, 2501 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.2)
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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

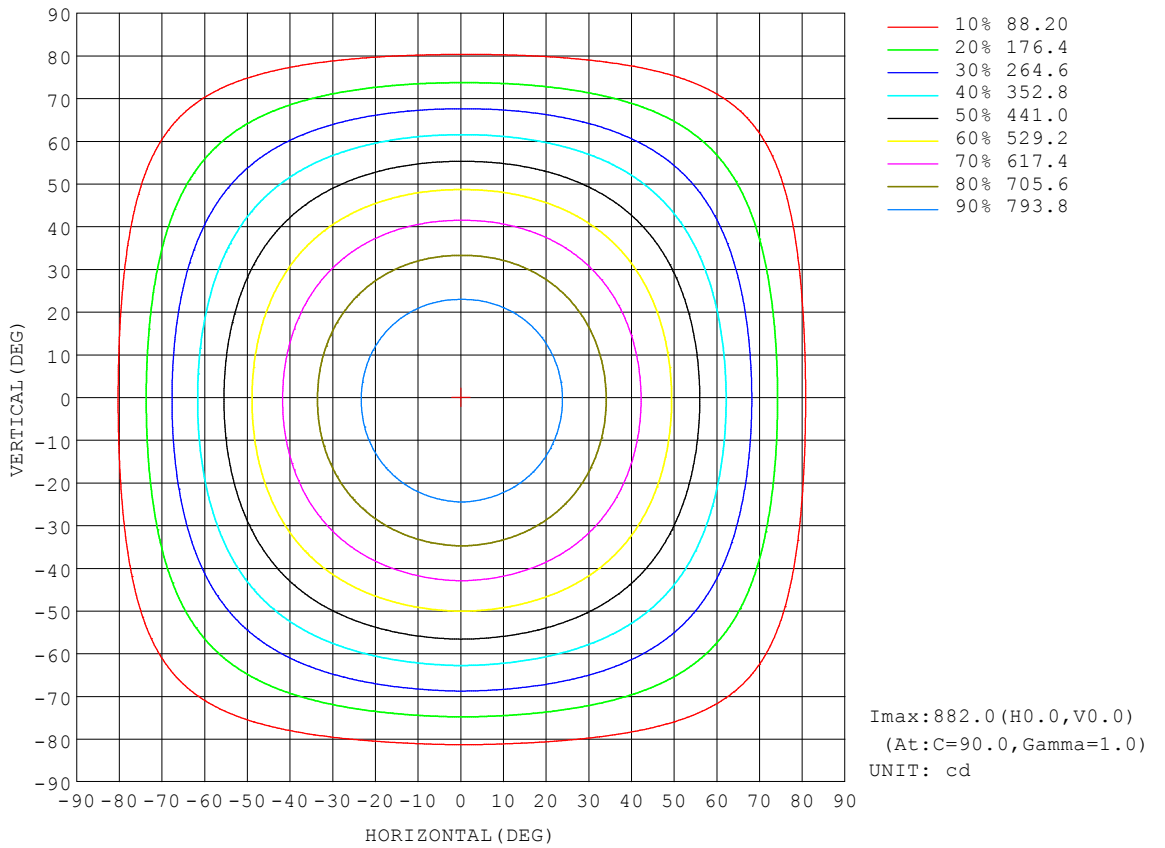
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	65	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

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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

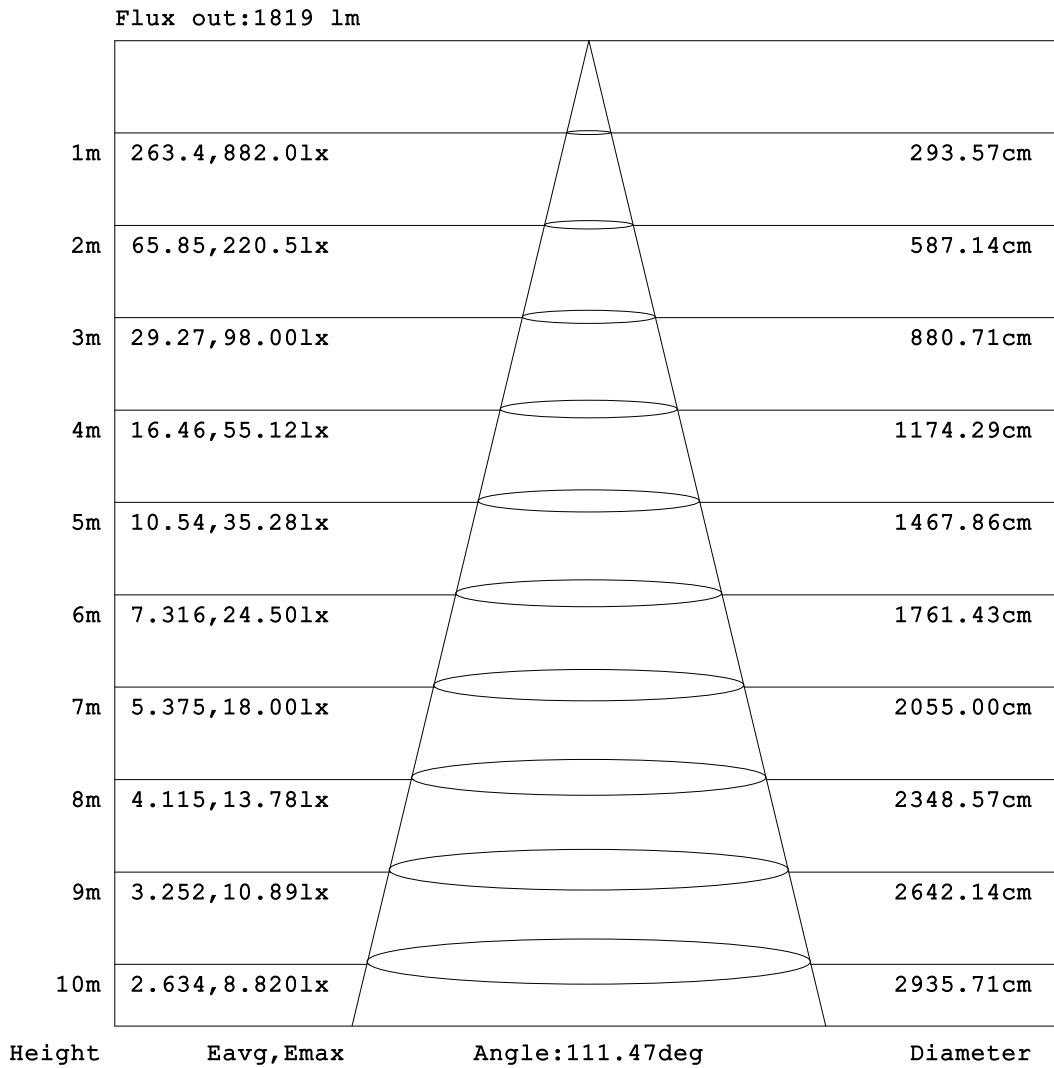


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-11-27

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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:



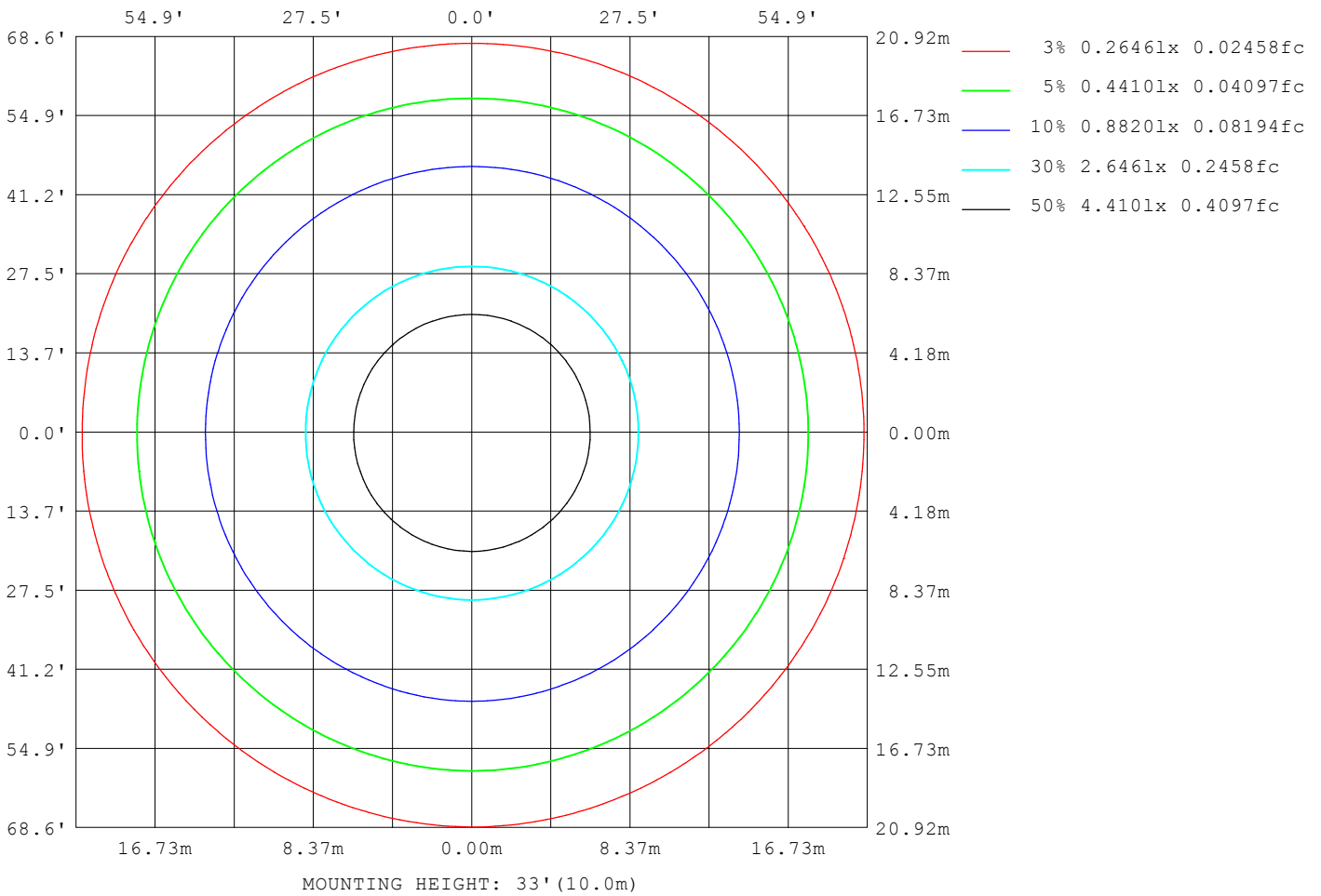
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 5000K
MFR.:	SUR.: 0.46	Shielding Angle:

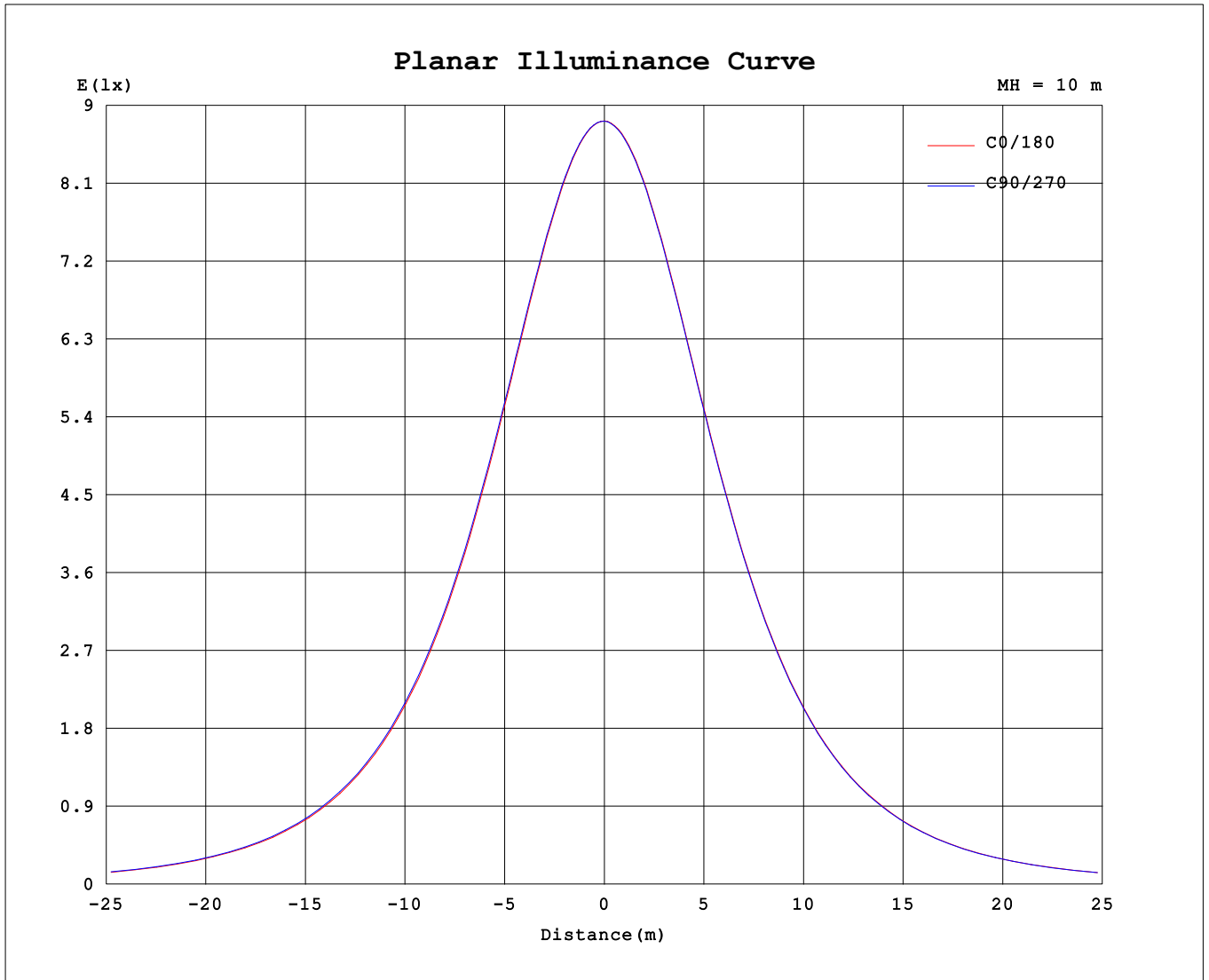
AvgL	cd/m2
L_0~180 (65) av	4383
L_0~180 (75) av	3763
L_0~180 (85) av	2533
L_90~270 (65) av	4433
L_90~270 (75) av	3869
L_90~270 (85) av	2682
L_45 (65) av	4410
L_45 (75) av	3823
L_45 (85) av	2614

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:119.96V I:0.2592A P:30.811W PF:0.9908 Freq:49.99Hz Lamp Flux:2501.22x1 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	882	882	882	882															
5	878	879	877	877															
10	866	868	865	863															
15	847	850	844	842															
20	819	824	816	814															
25	785	790	781	778															
30	744	750	739	736															
35	696	704	691	688															
40	643	651	637	634															
45	585	593	578	575															
50	522	531	515	512															
55	455	464	447	444															
60	385	394	377	374															
65	312	320	303	302															
70	238	247	230	229															
75	166	174	158	158															
80	98.3	106	91.4	91.7															
85	39.3	44.5	34.0	33.1															
90	0.10	0.07	0.10	0.09															
95	0.10	0.15	0.20	0.17															
100	0.23	0.28	0.34	0.31															
105	0.36	0.42	0.49	0.47															
110	0.51	0.56	0.65	0.64															
115	0.65	0.72	0.82	0.81															
120	0.80	0.86	0.97	0.99															
125	0.93	0.99	1.14	1.14															
130	1.05	1.12	1.29	1.30															
135	1.17	1.23	1.44	1.45															
140	1.29	1.34	1.56	1.59															
145	1.40	1.45	1.70	1.72															
150	1.52	1.57	1.82	1.82															
155	1.66	1.69	1.93	1.93															
160	1.78	1.81	2.05	2.04															
165	1.93	1.95	2.17	2.15															
170	2.07	2.13	2.29	2.23															
175	2.20	2.28	2.31	2.28															
180	2.28	2.29	2.31	2.29															

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: