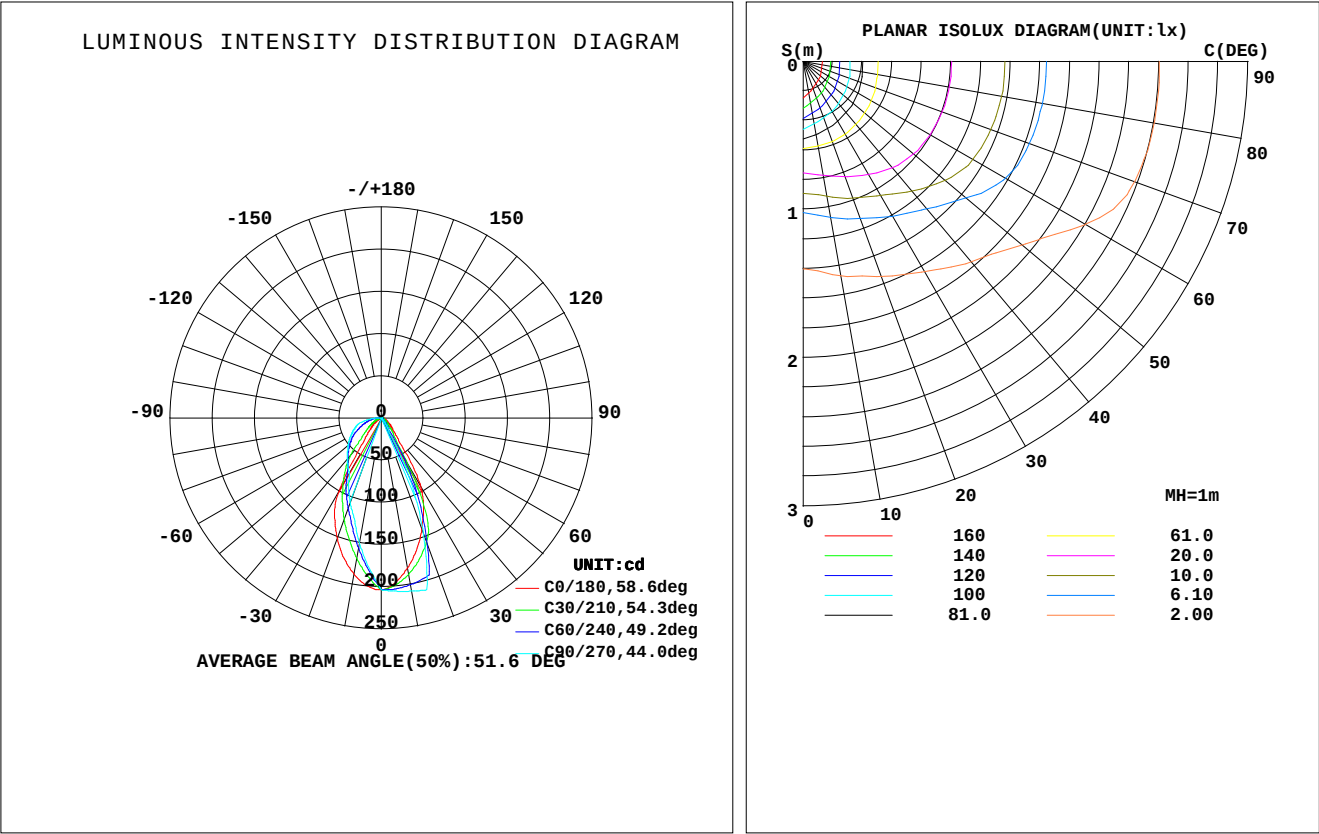


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm		
NAME: 682B01-DIM	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2025061601
MFR.: LCZ	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 30.33 lm/W
MODEL	EDS	I _{max} (cd)	210.8	S/MH(C0/180)	0.88	
NOMINAL POWER(W)	7	LOR(%)	26.7	S/MH(C90/270)	0.62	
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	196.22	h UP, DN(C0-180)	0.0, 16.4	
NOMINAL FLUX(lm)	735	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0, 10.3	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	221.3	h down(%)	26.7	CIBSE SHR MAX	0.75	



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

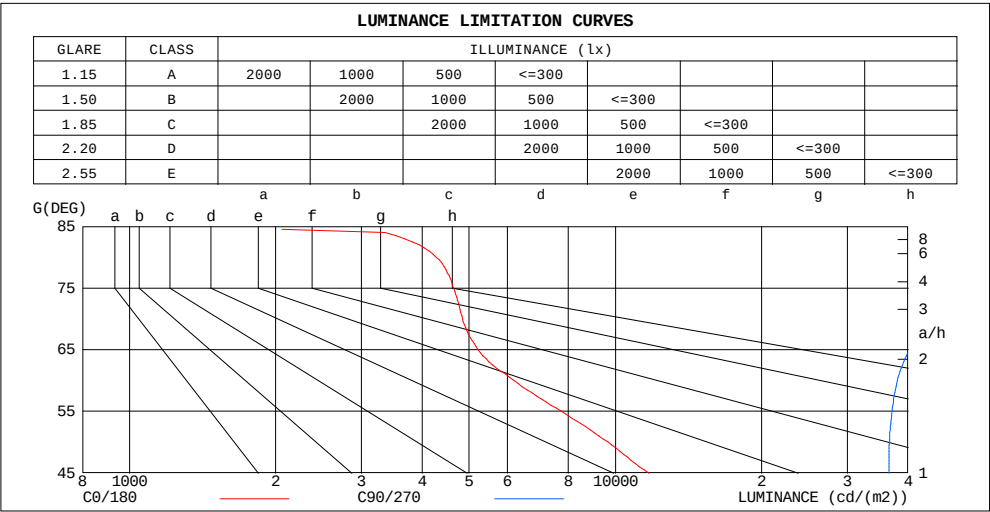
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
5	199.7	183.8	177.1	180.8	195.8	201.0	206.0	203.7	0- 5	4.711	4.711	2.4,0.64
10	187.7	162.0	150.4	155.9	180.7	194.2	208.4	199.7	5- 10	13.28	17.99	9.17,2.45
15	171.9	140.7	123.8	132.1	162.4	184.7	210.7	192.4	10- 15	20.32	38.30	19.5,5.21
20	152.6	120.7	107.8	110.1	141.1	173.0	147.0	182.4	15- 20	25.04	63.35	32.3,8.62
25	131.1	103.5	91.87	94.49	119.2	127.5	83.33	134.9	20- 25	25.79	89.14	45.4,12.1
30	101.0	87.22	75.90	80.81	94.58	77.44	19.62	78.39	25- 30	22.28	111.4	56.8,15.2
35	46.67	72.10	69.54	68.78	54.28	33.46	13.15	30.08	30- 35	16.79	128.2	65.3,17.4
40	27.78	59.38	63.18	58.76	28.66	12.66	6.667	11.62	35- 40	13.11	141.3	72,19.2
45	18.22	50.27	56.82	49.23	19.19	8.666	0.1884	7.982	40- 45	10.88	152.2	77.6,20.7
50	13.64	37.76	51.81	35.67	14.61	4.974	0.1562	4.721	45- 50	9.190	161.4	82.3,22
55	9.750	26.69	46.80	25.71	10.57	1.911	0.1240	2.028	50- 55	7.952	169.3	86.3,23
60	6.795	19.68	41.79	19.11	7.103	1.654	0.0918	1.768	55- 60	6.805	176.2	89.8,24
65	4.845	13.92	37.39	13.50	4.871	1.381	0.1035	1.498	60- 65	5.736	181.9	92.7,24.7
70	3.647	9.419	32.99	9.038	3.429	1.092	0.1153	1.222	65- 70	4.827	186.7	95.2,25.4
75	2.645	6.287	28.58	5.912	2.376	0.7523	0.1271	0.9020	70- 75	4.020	190.7	97.2,26
80	1.634	3.843	19.17	3.479	1.416	0.3893	0.1059	0.5351	75- 80	3.052	193.8	98.8,26.4
85	0.0963	1.951	9.751	1.768	0.4606	0.2037	0.0847	0.2917	80- 85	1.819	195.6	99.7,26.6
90	0	0.1106	0.3365	0.1035	0.0036	0.0024	0.0635	0.0259	85- 90	0.6133	196.2	100,26.7
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	502	50857
80	4277	50170
75	4645	50195
70	4847	43837
65	5211	40214
60	6177	37994
55	7727	37089
50	9646	36637
45	11710	36524

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

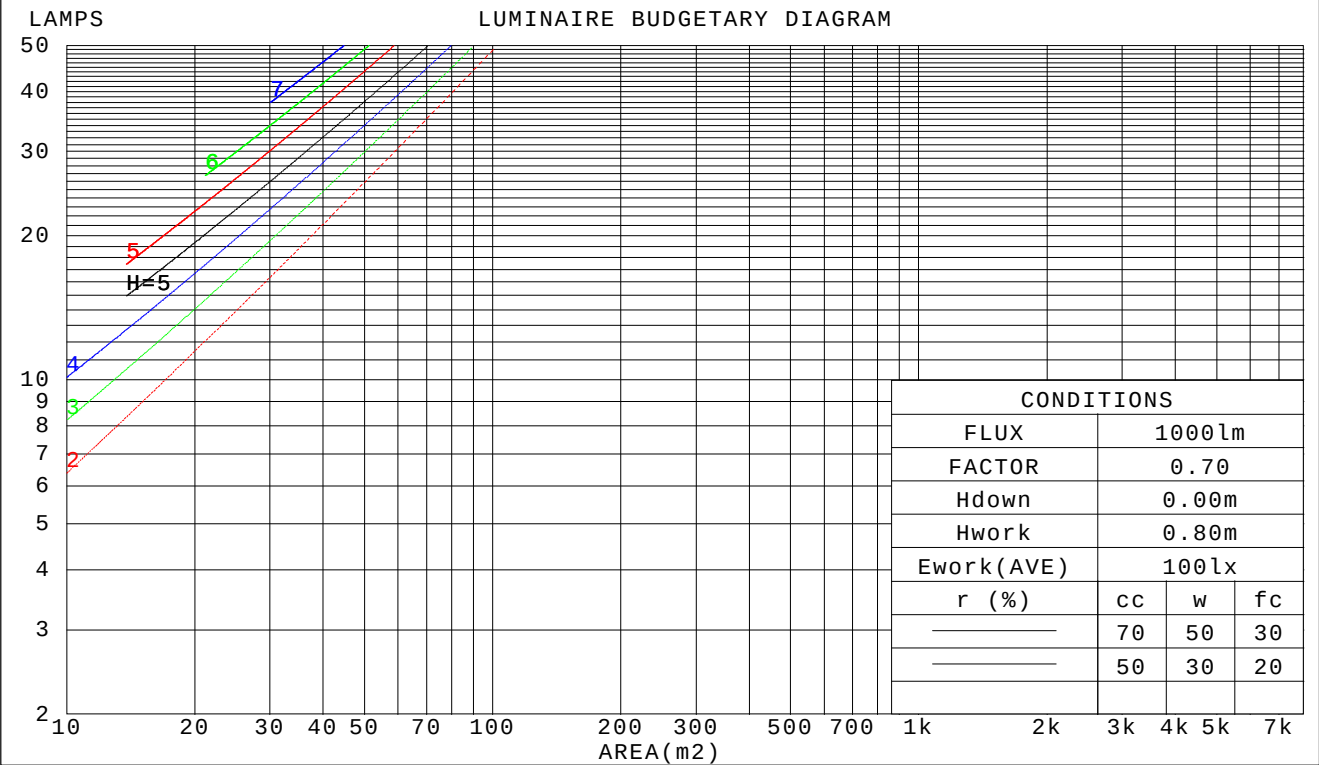
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm		
NAME: 682B01-DIM	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2025061601
MFR.: LCZ	SUR.:	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.32	.32	.32	.31	.31	.31	.30	.30	.30	.28	.28	.28	.27	.27	.27	.27
1.0	.29	.28	.27	.28	.27	.27	.27	.26	.26	.26	.26	.25	.25	.25	.24	.24
2.0	.26	.25	.24	.26	.24	.23	.25	.24	.23	.24	.23	.22	.23	.22	.22	.21
3.0	.24	.22	.21	.23	.22	.21	.23	.21	.20	.22	.21	.20	.21	.20	.20	.19
4.0	.22	.20	.19	.22	.20	.19	.21	.20	.18	.20	.19	.18	.20	.19	.18	.17
5.0	.20	.18	.17	.20	.18	.17	.19	.18	.17	.19	.18	.17	.19	.17	.16	.16
6.0	.19	.17	.16	.19	.17	.16	.18	.17	.15	.18	.16	.15	.17	.16	.15	.15
7.0	.18	.16	.14	.17	.16	.14	.17	.15	.14	.17	.15	.14	.16	.15	.14	.14
8.0	.16	.15	.13	.16	.15	.13	.16	.14	.13	.16	.14	.13	.15	.14	.13	.13
9.0	.15	.14	.12	.15	.14	.12	.15	.13	.12	.15	.13	.12	.15	.13	.12	.12
10.0	.15	.13	.12	.14	.13	.12	.14	.13	.12	.14	.13	.12	.14	.12	.12	.11



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm											
NAME: 682B01-DIM						TYPE:			WEIGHT:		
DIM.:						SPEC.:			SERIAL No.:2025061601		
MFR.: LCZ						SUR.:			PROTECTION ANGLE:		

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.063	.036	.011	.061	.035	.011	.058	.033	.011	.055	.032	.010	.052	.030	.010	
2.0	.059	.032	.010	.058	.032	.010	.055	.030	.009	.052	.029	.009	.049	.028	.009	
3.0	.055	.029	.009	.054	.029	.009	.051	.028	.008	.049	.027	.008	.047	.026	.008	
4.0	.051	.027	.008	.050	.026	.008	.048	.025	.008	.046	.025	.007	.044	.024	.007	
5.0	.048	.024	.007	.047	.024	.007	.045	.023	.007	.043	.023	.007	.041	.022	.007	
6.0	.045	.023	.006	.044	.022	.006	.042	.022	.006	.041	.021	.006	.039	.021	.006	
7.0	.042	.021	.006	.042	.021	.006	.040	.020	.006	.039	.020	.006	.037	.019	.006	
8.0	.040	.020	.005	.039	.019	.005	.038	.019	.005	.037	.019	.005	.035	.018	.005	
9.0	.038	.018	.005	.037	.018	.005	.036	.018	.005	.035	.017	.005	.034	.017	.005	
10.0	.036	.017	.005	.035	.017	.005	.034	.017	.005	.033	.016	.005	.032	.016	.005	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.051	.051	.051	.043	.043	.043	.030	.030	.030	.017	.017	.017	.005	.005	.005	
1.0	.047	.042	.037	.040	.036	.032	.027	.025	.022	.016	.014	.013	.005	.005	.004	
2.0	.043	.035	.028	.037	.030	.025	.026	.021	.017	.015	.012	.010	.005	.004	.003	
3.0	.041	.030	.022	.035	.026	.019	.024	.018	.014	.014	.011	.008	.004	.003	.003	
4.0	.038	.027	.018	.033	.023	.015	.022	.016	.011	.013	.009	.006	.004	.003	.002	
5.0	.036	.024	.015	.031	.020	.013	.021	.014	.009	.012	.008	.005	.004	.003	.002	
6.0	.034	.021	.012	.029	.018	.011	.020	.013	.008	.012	.008	.004	.004	.002	.001	
7.0	.032	.019	.010	.028	.017	.009	.019	.012	.006	.011	.007	.004	.004	.002	.001	
8.0	.030	.018	.009	.026	.015	.008	.018	.011	.005	.011	.006	.003	.003	.002	.001	
9.0	.029	.016	.008	.025	.014	.007	.017	.010	.005	.010	.006	.003	.003	.002	.001	
10.0	.028	.015	.007	.024	.013	.006	.017	.009	.004	.010	.005	.003	.003	.002	.001	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm										
NAME: 682B01-DIM					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:2025061601		
MFR.: LCZ					SUR.:			PROTECTION 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	20.0	21.2	20.3	21.4	21.6	26.3	27.5	26.6	27.6	27.8
3H	20.3	21.3	20.5	21.6	21.8	28.7	29.7	28.9	29.9	30.2
4H	20.4	21.4	20.7	21.6	21.9	29.9	30.9	30.2	31.2	31.4
6H	20.4	21.4	20.8	21.7	21.9	30.9	31.9	31.2	32.1	32.4
8H	20.5	21.4	20.8	21.7	21.9	31.3	32.2	31.6	32.5	32.7
12H	20.4	21.3	20.8	21.6	21.9	31.5	32.4	31.9	32.7	33.0
4H 2H	21.3	22.4	21.6	22.6	22.8	26.3	27.4	26.6	27.6	27.8
3H	21.7	22.6	22.0	22.8	23.1	29.0	29.9	29.3	30.2	30.5
4H	21.8	22.6	22.2	22.9	23.3	30.5	31.4	30.9	31.7	32.0
6H	21.9	22.7	22.3	23.0	23.4	31.8	32.6	32.2	32.9	33.3
8H	22.0	22.6	22.4	23.0	23.4	32.3	33.0	32.7	33.4	33.7
12H	22.0	22.6	22.4	23.0	23.4	32.7	33.3	33.1	33.7	34.1
8H 4H	22.8	23.5	23.2	23.9	24.2	30.5	31.2	30.9	31.5	31.9
6H	23.0	23.6	23.5	24.0	24.4	31.9	32.5	32.4	32.9	33.3
8H	23.1	23.6	23.5	24.0	24.4	32.6	33.1	33.0	33.5	34.0
12H	23.1	23.5	23.6	24.0	24.5	33.1	33.6	33.6	34.0	34.5
12H 4H	23.2	23.9	23.7	24.2	24.6	30.4	31.1	30.8	31.4	31.8
6H	23.5	24.0	23.9	24.4	24.8	31.9	32.4	32.4	32.8	33.3
8H	23.6	24.0	24.0	24.4	24.9	32.6	33.0	33.0	33.4	33.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.1 / - 0.2				
1.5H	+ 0.8 / - 0.9					+ 0.2 / - 0.3				
2.0H	+ 1.0 / - 1.2					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 735.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.1)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm		
NAME: 682B01-DIM	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2025061601
MFR.: LCZ	SUR.:	PROTECTION ANGLE:

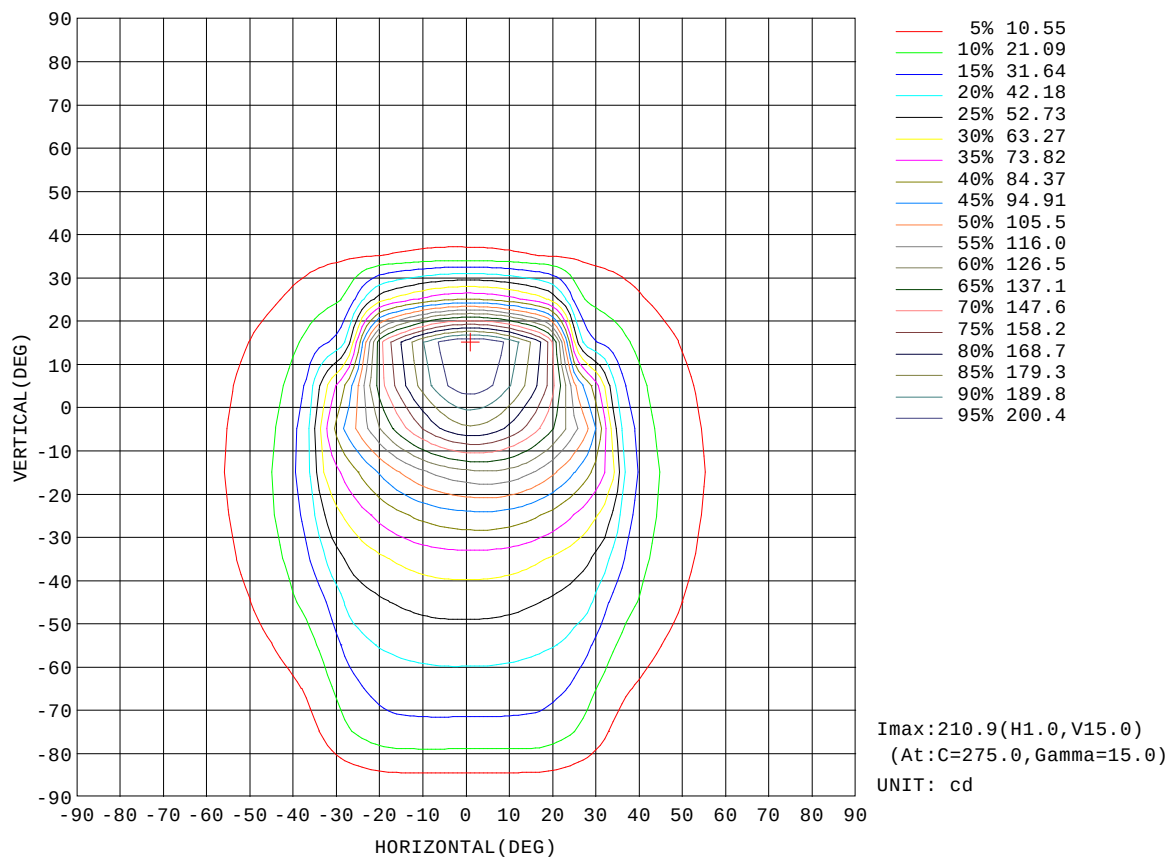
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	20	18	16	20	17	16	19	17	16	15
0.80	22	20	18	22	20	18	22	20	18	17
1.00	24	22	20	23	21	20	23	22	20	19
1.25	25	23	22	25	23	22	24	23	21	20
1.50	26	24	23	26	24	23	25	24	23	21
2.00	27	26	24	27	25	24	26	25	24	22
2.50	28	27	25	28	26	25	27	26	25	23
3.00	29	27	26	28	27	26	27	26	25	23
4.00	29	28	27	29	28	27	28	27	26	24
5.00	30	29	28	29	28	28	28	28	27	25
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:
 Test Date:2025-06-16

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:5.835m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm		
NAME: 682B01-DIM	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2025061601
MFR.: LCZ	SUR.:	PROTECTION ANGLE:



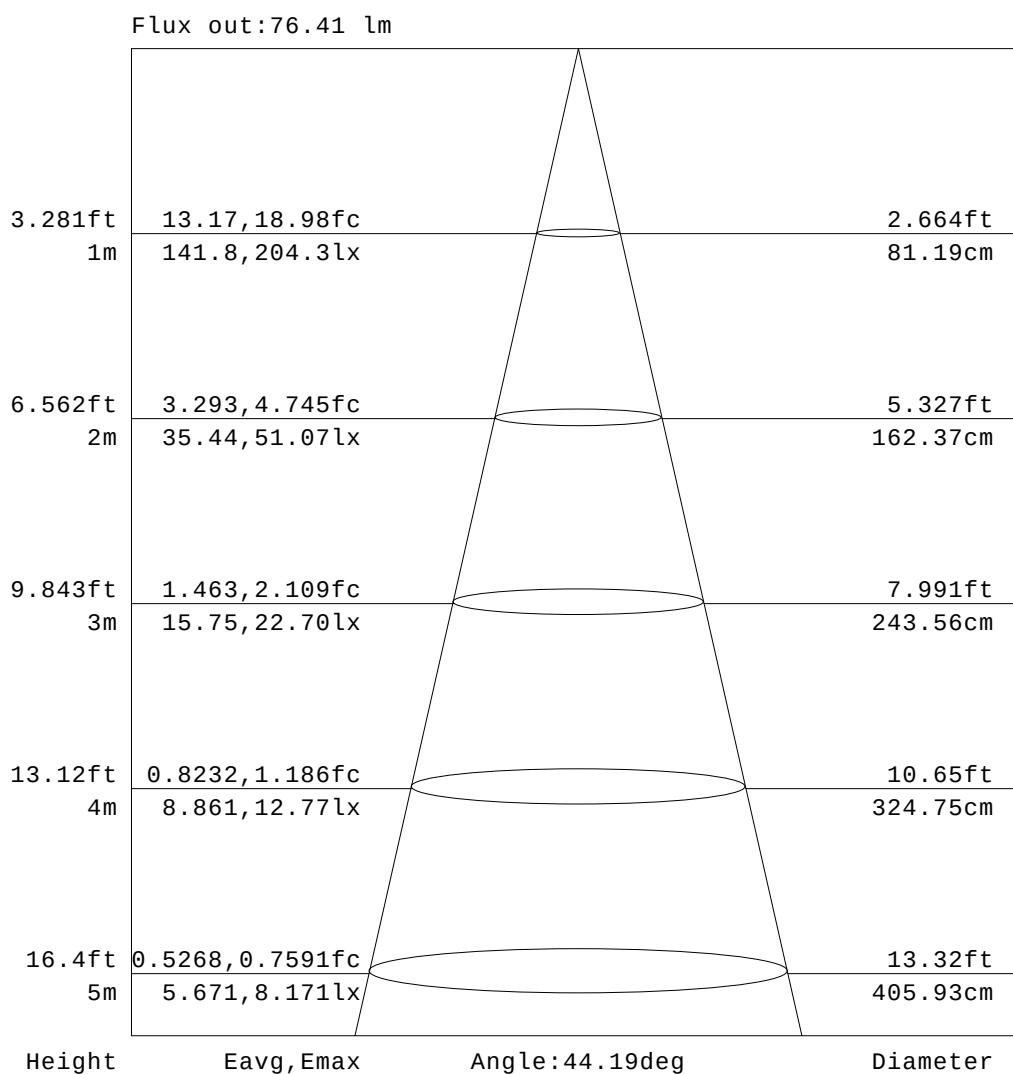
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm		
NAME: 682B01-DIM	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2025061601
MFR.: LCZ	SUR.:	PROTECTION ANGLE:



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

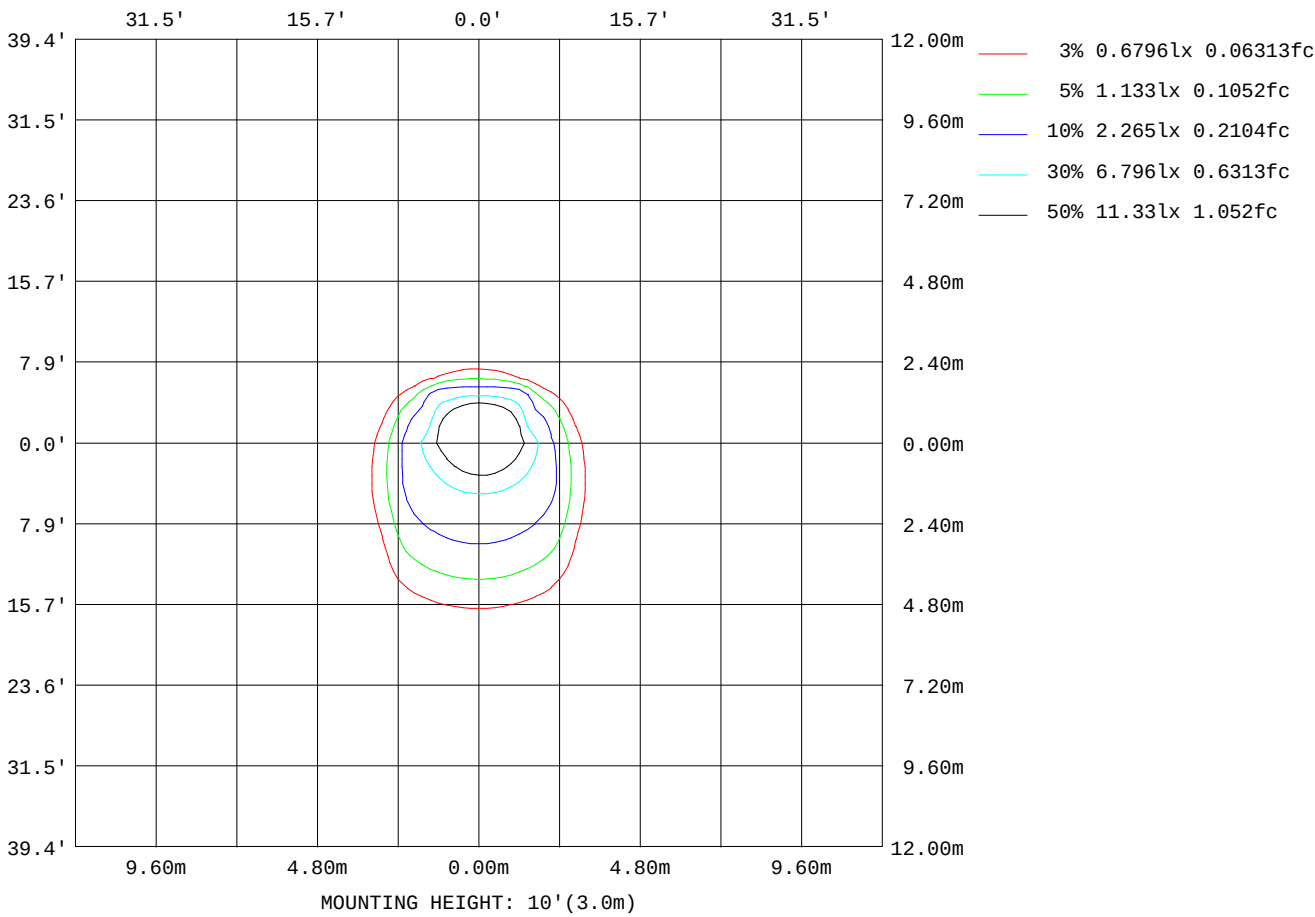
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

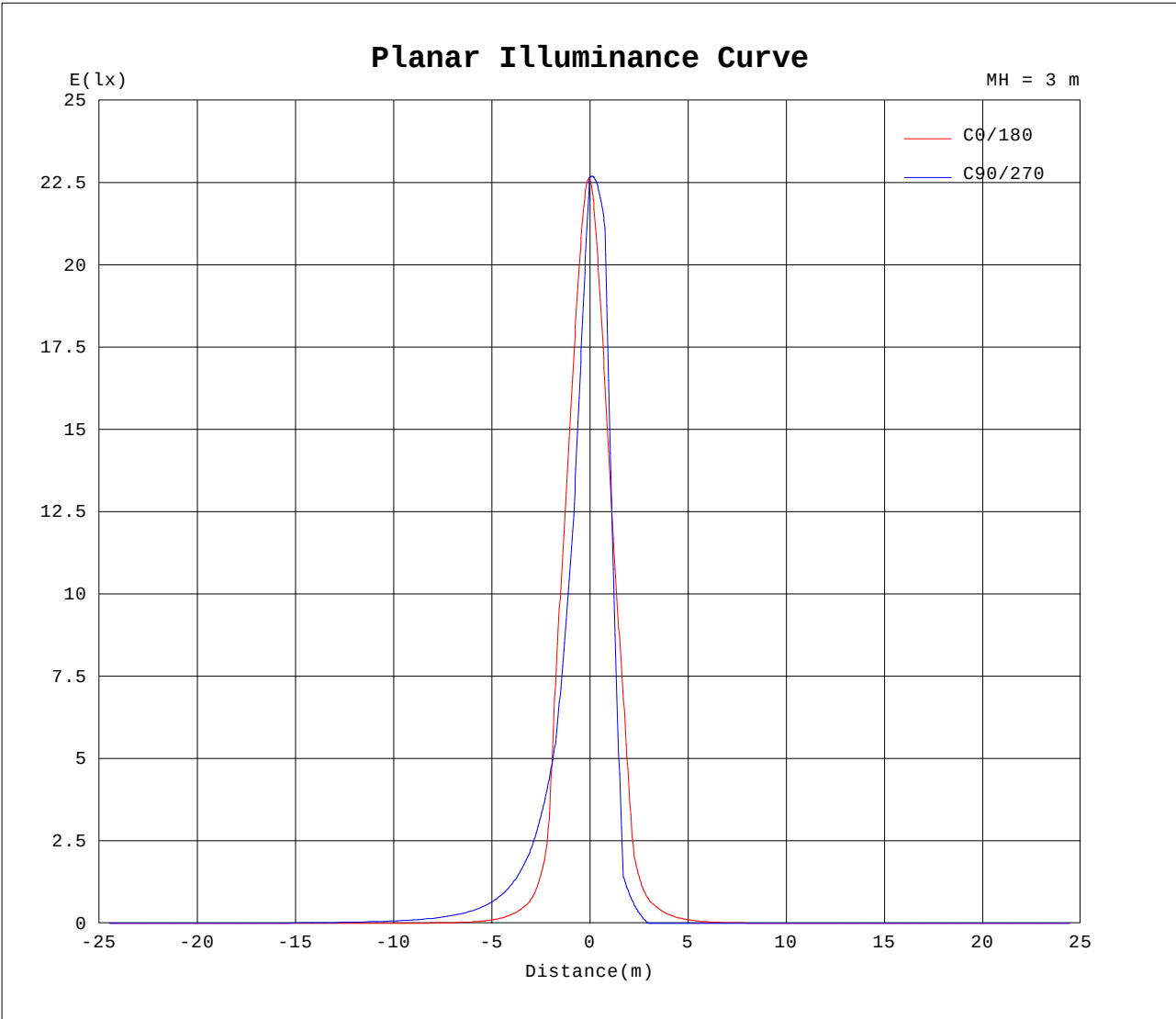
Test:U:221.3V I:0.0380A P:6.470W PF:0.7570 Lamp Flux:735x1 lm		
NAME: 682B01-DIM	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2025061601
MFR.: LCZ	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2025-06-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks: