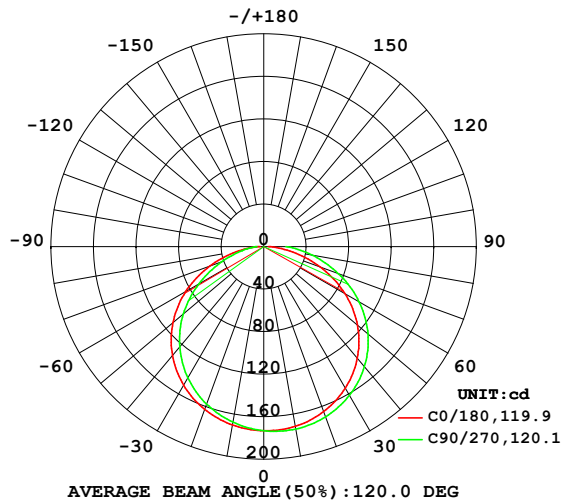


LUMINAIRE PHOTOMETRIC TEST REPORT

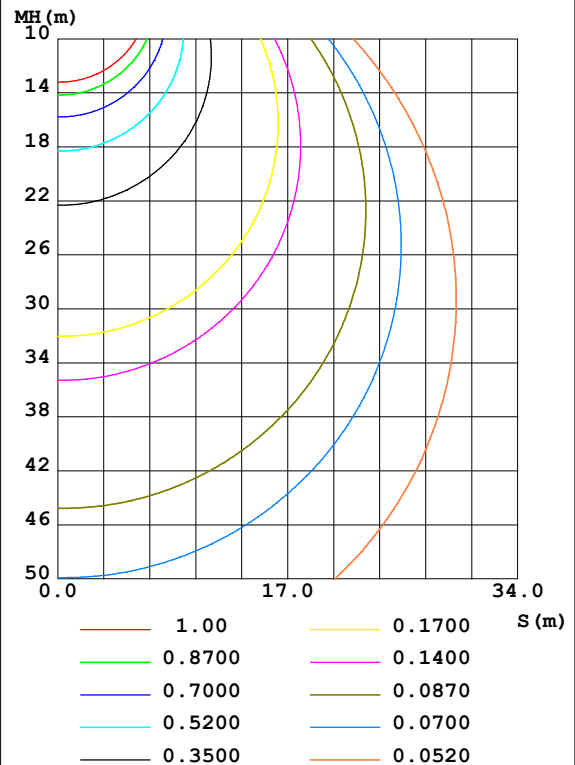
Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.14 lm/W			
MODEL	GLDD-CG06	Imax(cd)	174.9	S/MH(C0/180)	1.29
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	100V	TOTAL FLUX(lm)	548.28	η UP,DN(C0-180)	0.0,55.5
NOMINAL FLUX(lm)	548.282	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	100.0	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-02-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:9.660m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	171.6	173.0	174.2	174.8	170.3	168.8	167.6	166.9	0- 10	16.42	16.42	2.99,2.99
20	165.0	167.9	170.3	171.8	162.8	159.8	157.5	156.0	10- 20	47.43	63.84	11.6,11.6
30	153.6	157.7	161.4	163.8	150.7	146.1	142.7	140.2	20- 30	73.07	136.9	25,25
40	137.0	142.2	147.4	150.8	133.5	127.7	123.0	119.4	30- 40	90.13	227.0	41.4,41.4
50	115.1	121.3	128.0	132.4	111.5	104.4	98.67	94.15	40- 50	96.10	323.1	58.9,58.9
60	87.99	95.15	103.5	106.0	84.77	77.01	70.70	65.78	50- 60	89.47	412.6	75.3,75.3
70	56.70	64.88	74.84	77.74	54.26	46.92	42.15	37.97	60- 70	70.95	483.6	88.2,88.2
80	25.10	34.05	46.04	47.50	23.88	20.10	18.97	16.18	70- 80	44.82	528.4	96.4,96.4
90	4.236	10.96	20.80	21.88	3.558	4.409	6.479	4.373	80- 90	19.91	548.3	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 275.11 lm

%lum = 50.2%

%lamp = 50.2%

Conical surface Flux(120deg): 412.61 lm

%lum = 75.3%

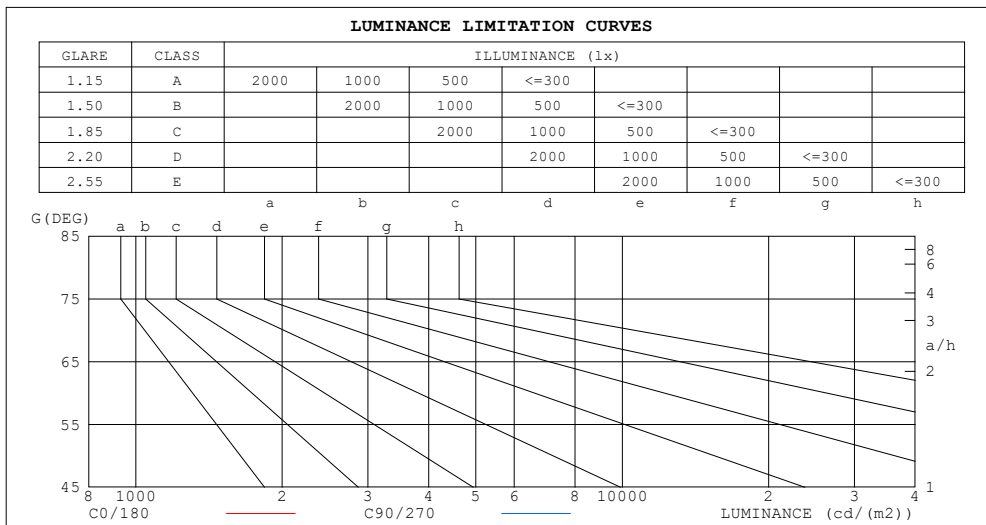
%lamp = 75.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-02-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:9.660m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:



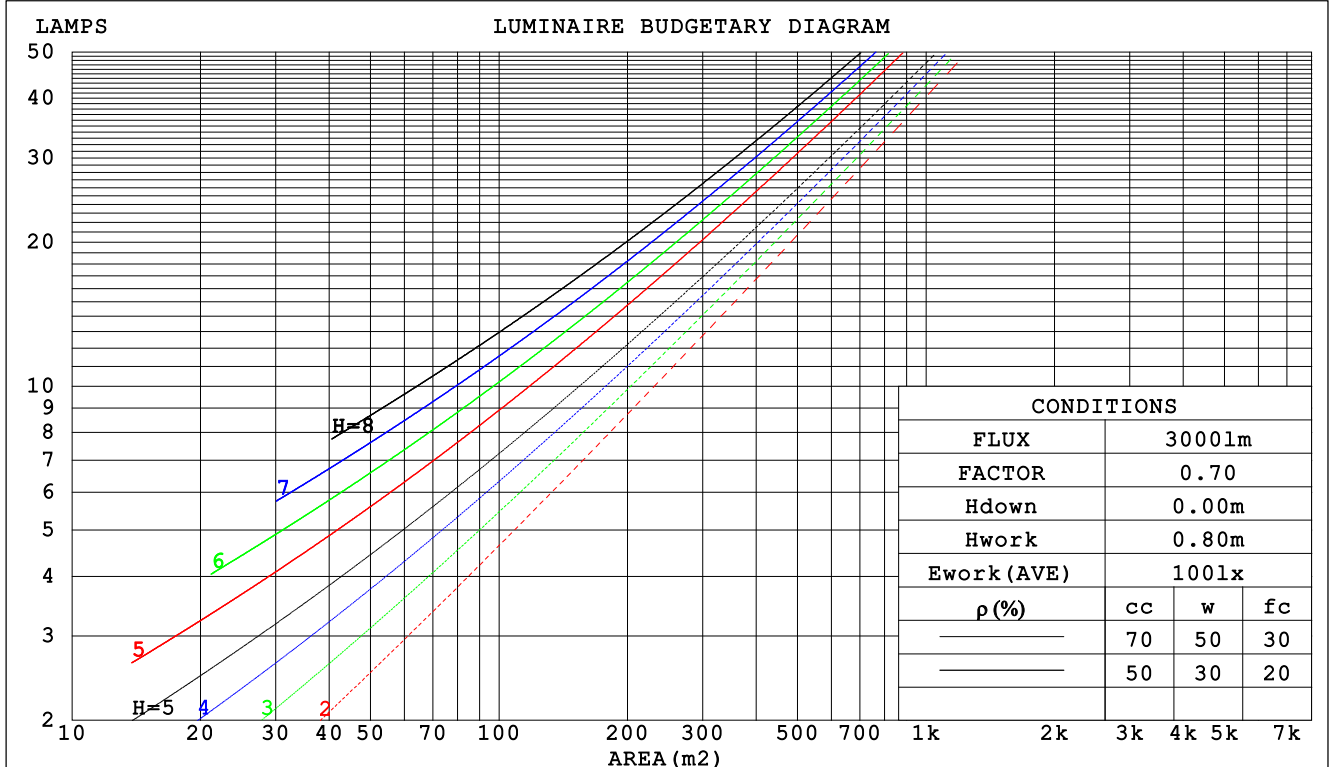
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-02-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
 Humidity:65.0%
 Test Distance:9.660m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm					
NAME: LD97E 4W			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.:0.002*1*0.01		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.337	.191	.061	.330	.188	.060	.316	.181	.058	.304	.175	.056	.292	.170	.055		
2.0	.309	.169	.052	.303	.167	.051	.291	.162	.050	.280	.157	.049	.270	.153	.048		
3.0	.282	.150	.045	.277	.148	.045	.266	.144	.044	.256	.141	.043	.247	.137	.042		
4.0	.258	.134	.039	.254	.133	.039	.244	.129	.039	.236	.126	.038	.228	.124	.038		
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.034	.217	.115	.034	.210	.112	.034		
6.0	.219	.110	.031	.216	.109	.031	.208	.107	.031	.201	.105	.031	.195	.103	.030		
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.187	.096	.028	.182	.094	.028		
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025		
9.0	.177	.086	.024	.175	.085	.024	.169	.084	.024	.164	.082	.024	.160	.081	.023		
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.151	.076	.022		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.182	.156	.132	.156	.134	.114	.107	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.175	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.086	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm										
NAME: LD97E 4W						TYPE:		WEIGHT:		
SPEC.:						DIM.:		SERIAL No.:		
MFR.: EVERFINE						SUR.:0.002*1*0.01		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	44.8	46.4	45.1	46.6	46.8	45.4	46.9	45.6	47.1	47.3
3H	46.4	47.9	46.7	48.1	48.4	47.3	48.8	47.6	49.0	49.3
4H	47.1	48.5	47.4	48.7	49.0	48.3	49.7	48.6	49.9	50.2
6H	47.6	48.9	47.9	49.2	49.4	49.2	50.5	49.5	50.8	51.1
8H	47.7	49.0	48.1	49.3	49.6	49.6	50.9	50.0	51.2	51.5
12H	47.9	49.1	48.2	49.4	49.7	50.1	51.3	50.5	51.6	51.9
4H 2H	45.6	46.9	45.9	47.2	47.5	46.0	47.4	46.3	47.6	47.9
3H	47.4	48.6	47.7	48.9	49.2	48.1	49.4	48.5	49.7	50.0
4H	48.2	49.3	48.6	49.6	50.0	49.2	50.4	49.6	50.7	51.0
6H	48.8	49.8	49.2	50.2	50.5	50.3	51.3	50.7	51.7	52.0
8H	49.0	50.0	49.5	50.3	50.7	50.9	51.8	51.3	52.2	52.5
12H	49.2	50.1	49.7	50.5	50.9	51.4	52.3	51.9	52.7	53.1
8H 4H	48.6	49.6	49.0	49.9	50.3	49.5	50.5	49.9	50.8	51.2
6H	49.4	50.2	49.9	50.6	51.1	50.8	51.6	51.3	52.0	52.4
8H	49.8	50.5	50.2	50.9	51.4	51.5	52.2	51.9	52.6	53.1
12H	50.1	50.7	50.5	51.1	51.6	52.2	52.8	52.7	53.3	53.8
12H 4H	48.7	49.6	49.1	49.9	50.3	49.6	50.4	50.0	50.8	51.2
6H	49.6	50.3	50.1	50.7	51.2	50.9	51.6	51.4	52.0	52.5
8H	50.0	50.6	50.5	51.1	51.5	51.6	52.2	52.1	52.7	53.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 548.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.1)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:

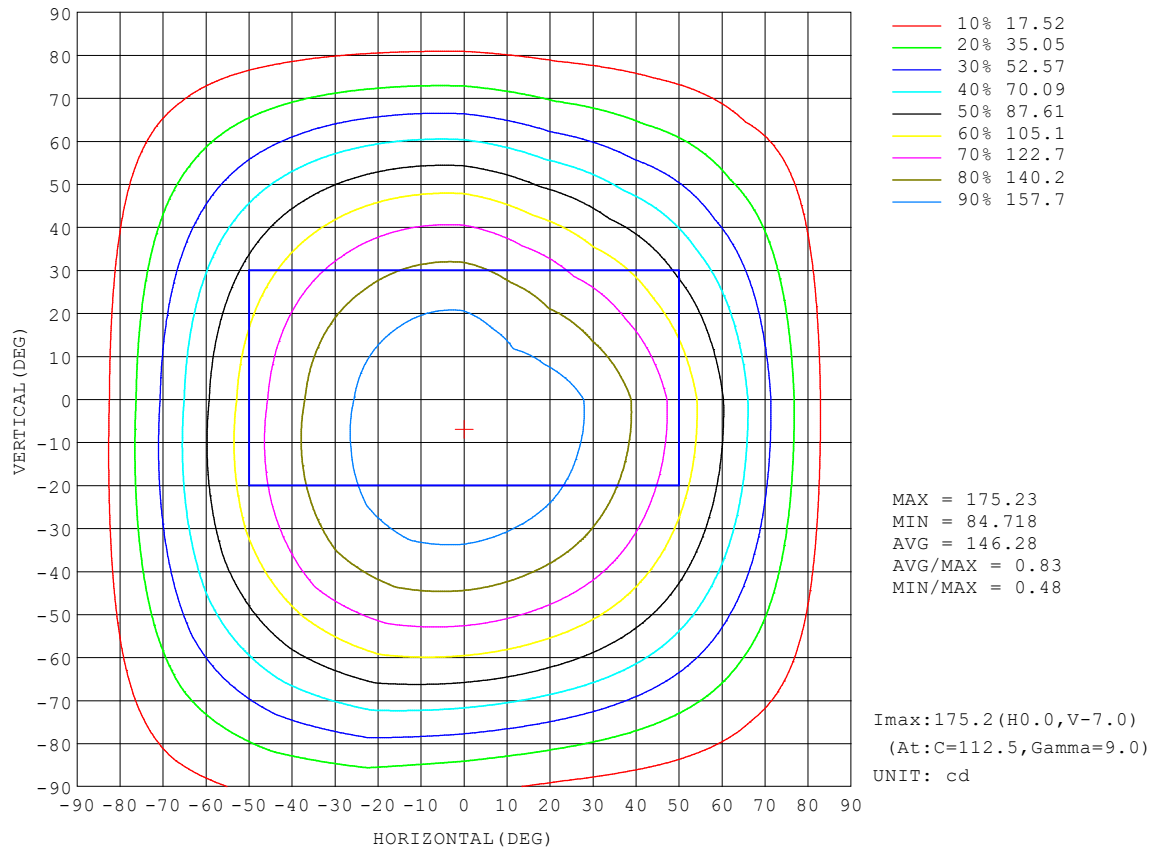
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	36	30
0.80	66	54	46	65	53	46	63	52	45	38
1.00	74	62	55	73	62	55	71	63	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	68	85	75	68	81	73	67	59
2.00	93	84	77	91	83	77	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	93	88	99	92	86	94	89	84	75
4.00	105	99	94	103	97	92	98	94	90	81
5.00	108	102	98	105	100	96	100	97	93	84
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:

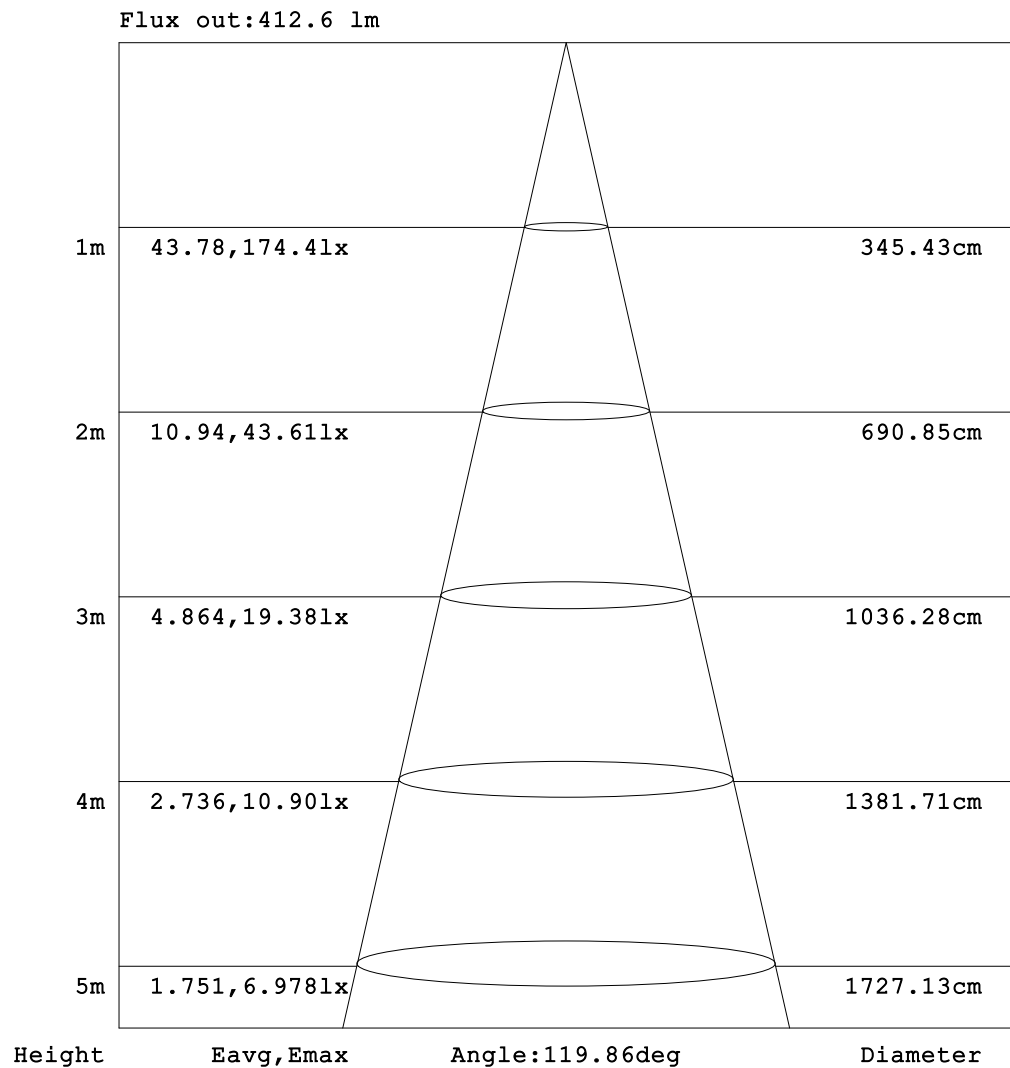


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:



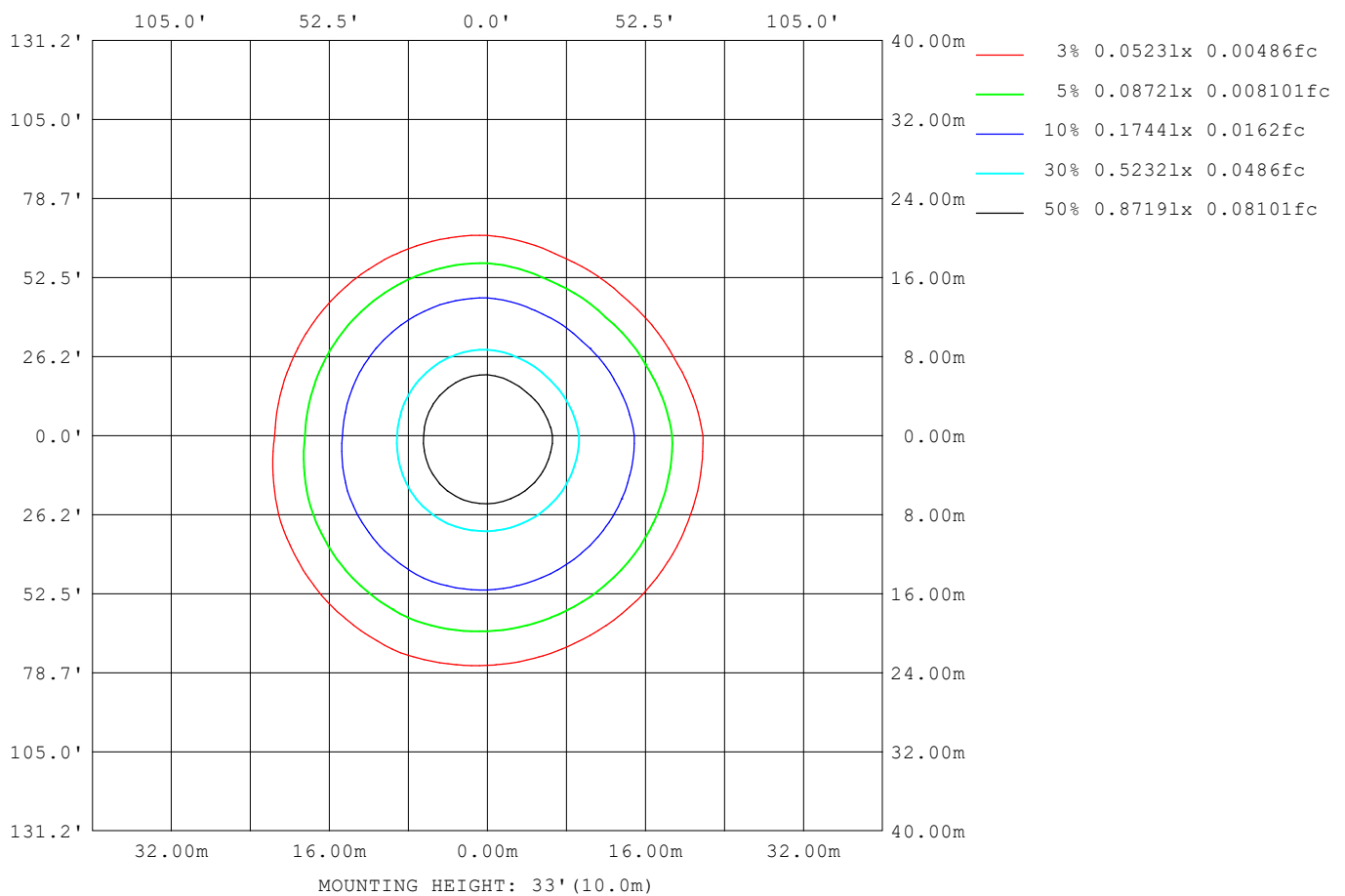
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:24.00V I:0.1742A P:4.181W PF:1.000 Lamp Flux:548.282x1 lm		
NAME: LD97E 4W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.002*1*0.01	Shielding Angle:

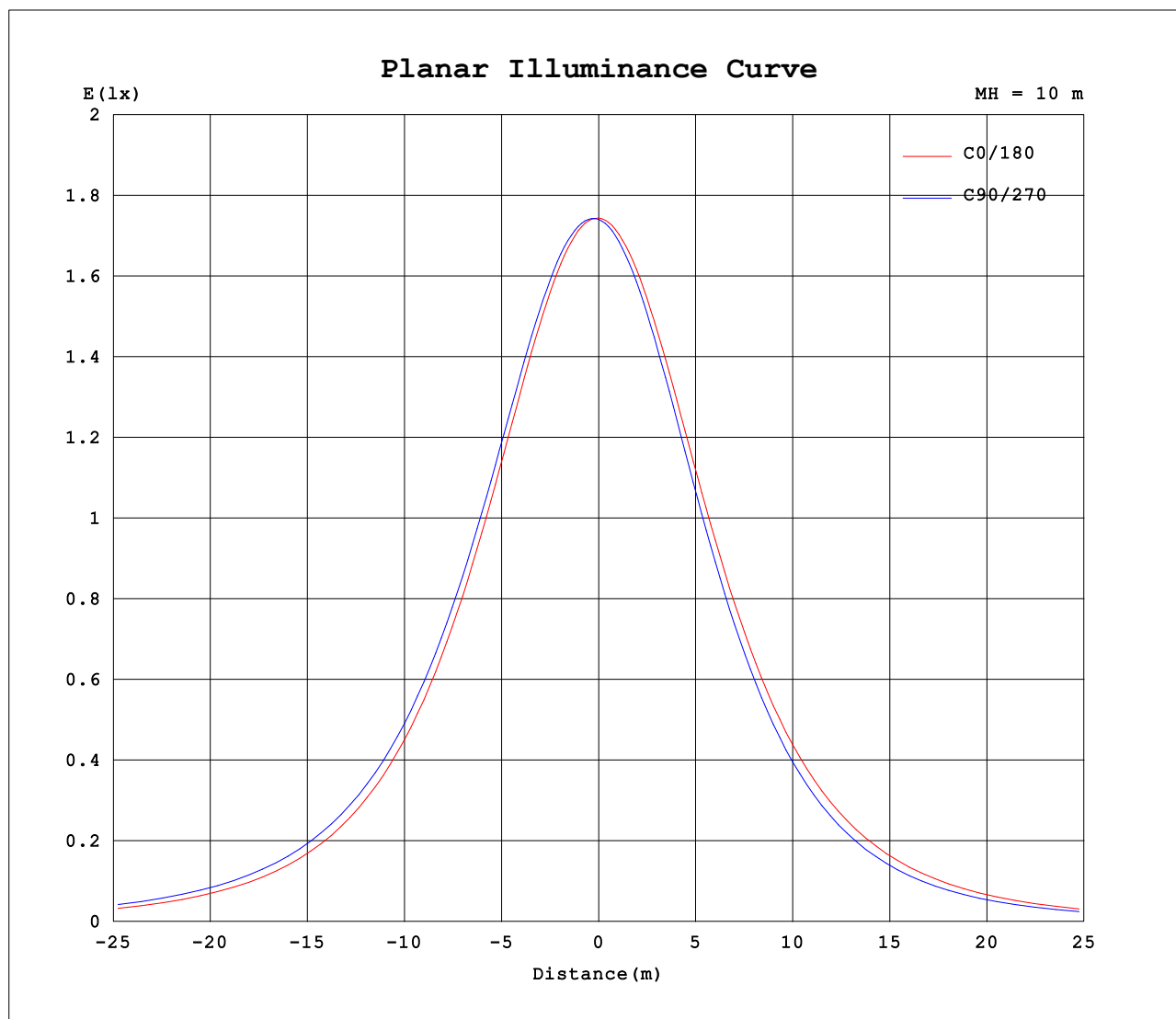
AvgL	cd/m2
L_0~180 (65) av	8438647
L_0~180 (75) av	7626150
L_0~180 (85) av	6871161
L_90~270 (65) av	8619293
L_90~270 (75) av	8643586
L_90~270 (85) av	12577319
L_45 (65) av	8470149
L_45 (75) av	8210738
L_45 (85) av	10578659

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2021-02-02

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2021-02-02

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 9.660m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:9.660m [K=1.0000]
Remarks:

```