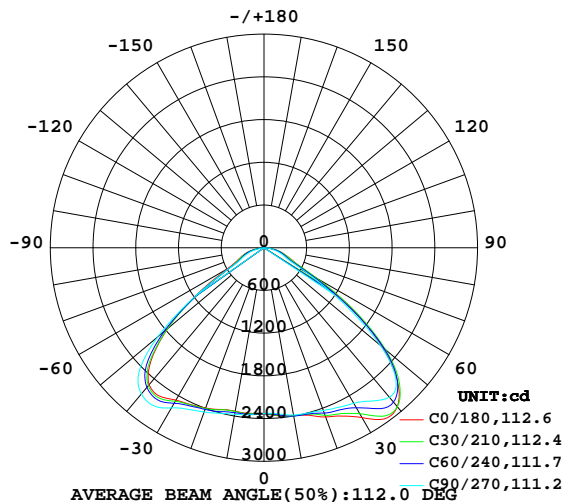


LUMINAIRE PHOTOMETRIC TEST REPORT

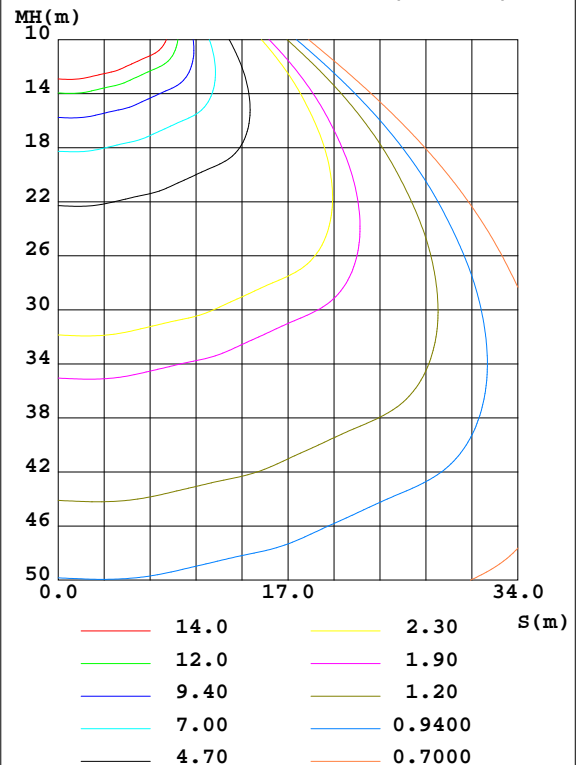
NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 124.97 lm/W
MODEL	ZGSM-GCD60H6	Imax(cd)	2962	S/MH(C0/180)	1.58	
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.63	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	7498.3	η UP,DN(C0-180)	0.0,51.1	
NOMINAL FLUX(lm)	7500	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.9	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.75	
TEST VOLTAGE(V)	220.1	η down(%)	100.0	CIBSE SHR MAX	1.75	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [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	2394	2401	2385	2346	2332	2344	2376	2388	0- 10	224.9	224.9	3,3
20	2529	2486	2433	2401	2396	2410	2455	2503	10- 20	682.0	906.9	12.1,12.1
30	2756	2652	2523	2479	2472	2513	2597	2755	20- 30	1164	2070	27.6,27.6
40	2914	2878	2740	2553	2510	2535	2680	2810	30- 40	1686	3757	50.1,50.1
50	2165	2233	2136	1874	1773	1789	1950	2041	40- 50	1879	5636	75.2,75.1
60	835.3	831.3	669.7	619.1	602.7	517.1	504.2	623.2	50- 60	1161	6797	90.7,90.6
70	340.0	317.4	268.1	303.8	315.7	296.6	250.1	297.5	60- 70	412.6	7210	96.2,96.1
80	136.9	155.9	114.6	136.9	120.5	120.9	21.40	131.9	70- 80	231.0	7441	99.2,99.2
90	7.699	8.179	2.049	7.145	6.769	4.973	1.420	5.659	80- 90	57.40	7498	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): 4723.3 lm

%lum = 63.0%

%lamp = 63.0%

Conical surface Flux(120deg): 6797.3 lm

%lum = 90.7%

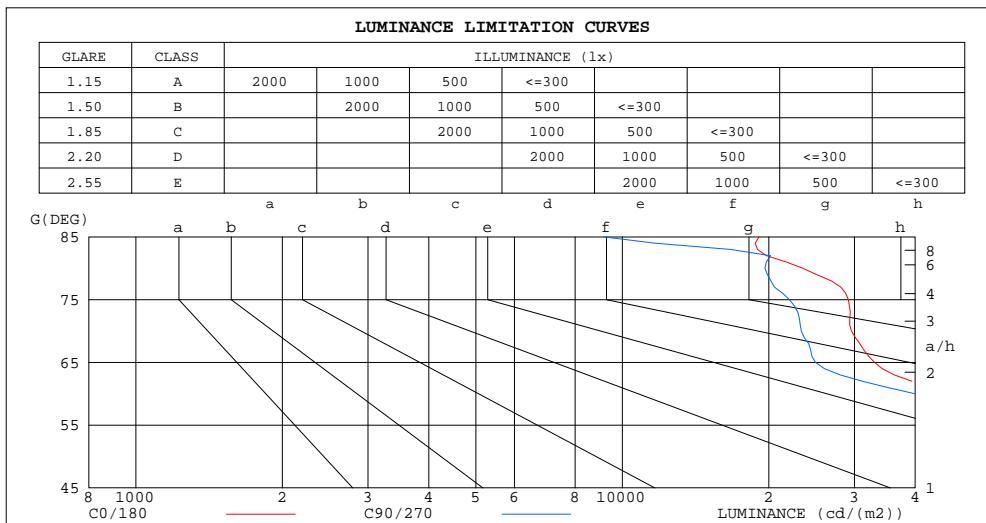
%lamp = 90.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	19098	9142
80	23466	19645
75	29152	22041
70	29584	23325
65	32985	24934
60	49722	39866
55	80250	71064
50	100232	98910
45	111514	110336

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.265	.151	.048	.258	.147	.047	.245	.141	.045	.233	.134	.043	.222	.129	.041		
2.0	.257	.141	.043	.251	.138	.043	.239	.133	.041	.229	.128	.040	.219	.124	.039		
3.0	.243	.130	.039	.238	.127	.038	.228	.124	.038	.219	.120	.037	.210	.116	.036		
4.0	.229	.119	.035	.224	.117	.035	.216	.114	.034	.207	.111	.034	.200	.108	.033		
5.0	.215	.110	.032	.211	.108	.032	.203	.106	.031	.196	.103	.031	.189	.101	.030		
6.0	.202	.101	.029	.199	.100	.029	.192	.098	.029	.185	.096	.028	.179	.094	.028		
7.0	.190	.094	.027	.187	.093	.027	.181	.091	.026	.175	.090	.026	.169	.088	.026		
8.0	.179	.088	.025	.176	.087	.025	.171	.085	.024	.165	.084	.024	.160	.082	.024		
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.157	.078	.022	.152	.077	.022		
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.144	.073	.021		

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	.177	.156	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015		
2.0	.168	.132	.102	.144	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012		
3.0	.159	.114	.078	.137	.098	.068	.094	.068	.047	.054	.040	.028	.017	.013	.009		
4.0	.152	.101	.061	.130	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007		
5.0	.145	.090	.049	.124	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006		
6.0	.138	.082	.041	.119	.071	.035	.082	.049	.025	.048	.029	.015	.015	.010	.005		
7.0	.132	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004		
8.0	.126	.069	.030	.109	.060	.026	.075	.042	.018	.044	.025	.011	.014	.008	.004		
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.010	.014	.008	.003		
10.0	.115	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: LED灯					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:21cm*16cm					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					21.3	22.7	21.6	22.9	23.1	20.8	22.3	21.1	22.5	22.7
3H					21.5	22.8	21.8	23.0	23.3	20.9	22.2	21.2	22.5	22.7
4H					21.6	22.9	21.9	23.1	23.4	21.0	22.3	21.3	22.5	22.7
6H					21.7	22.9	22.1	23.2	23.4	21.1	22.2	21.4	22.5	22.8
8H					21.8	22.9	22.1	23.1	23.4	21.1	22.2	21.4	22.5	22.7
12H					21.7	22.8	22.1	23.1	23.4	21.0	22.1	21.4	22.4	22.7
4H 2H					21.3	22.6	21.6	22.8	23.0	20.9	22.1	21.2	22.4	22.6
3H					21.7	22.7	22.0	23.0	23.3	21.1	22.2	21.5	22.5	22.8
4H					21.9	22.9	22.3	23.2	23.5	21.3	22.3	21.7	22.6	22.9
6H					22.1	23.0	22.5	23.3	23.7	21.4	22.3	21.8	22.6	23.0
8H					22.2	23.0	22.6	23.3	23.7	21.5	22.3	21.9	22.6	23.0
12H					22.2	22.9	22.6	23.3	23.7	21.5	22.2	21.9	22.6	23.0
8H 4H					21.9	22.7	22.3	23.1	23.5	21.4	22.2	21.8	22.5	22.9
6H					22.3	22.9	22.7	23.3	23.8	21.6	22.3	22.1	22.7	23.1
8H					22.4	23.0	22.9	23.4	23.8	21.7	22.3	22.2	22.7	23.2
12H					22.5	23.0	23.0	23.4	23.9	21.8	22.3	22.2	22.7	23.2
12H 4H					21.9	22.6	22.3	23.0	23.4	21.4	22.1	21.8	22.5	22.9
6H					22.3	22.9	22.7	23.3	23.7	21.6	22.2	22.1	22.6	23.1
8H					22.4	22.9	22.9	23.4	23.8	21.8	22.2	22.2	22.7	23.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.5 / - 0.7					+ 0.8 / - 0.8				
1.5H					+ 0.4 / - 1.0					+ 0.5 / - 1.4				
2.0H					+ 1.6 / - 2.6					+ 1.9 / - 3.0				

CIE Pub.117, 7500 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.0$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

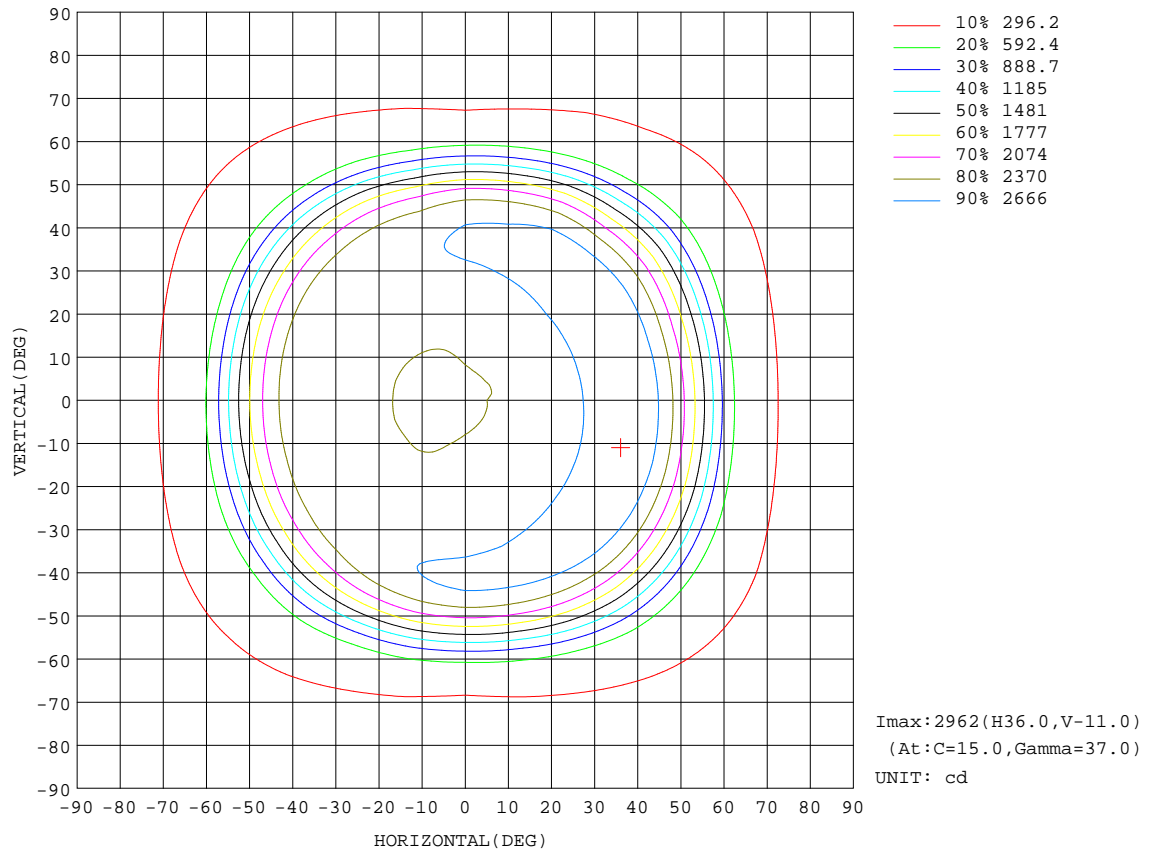
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	71	60	53	70	59	53	68	59	52	46
1.00	80	70	63	79	69	63	77	71	63	56
1.25	87	78	72	86	77	71	84	76	71	64
1.50	92	84	77	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	94	88	84	76
2.50	102	95	90	100	94	89	96	91	87	80
3.00	105	99	94	103	97	93	99	95	91	83
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	102	108	104	100	103	100	97	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:



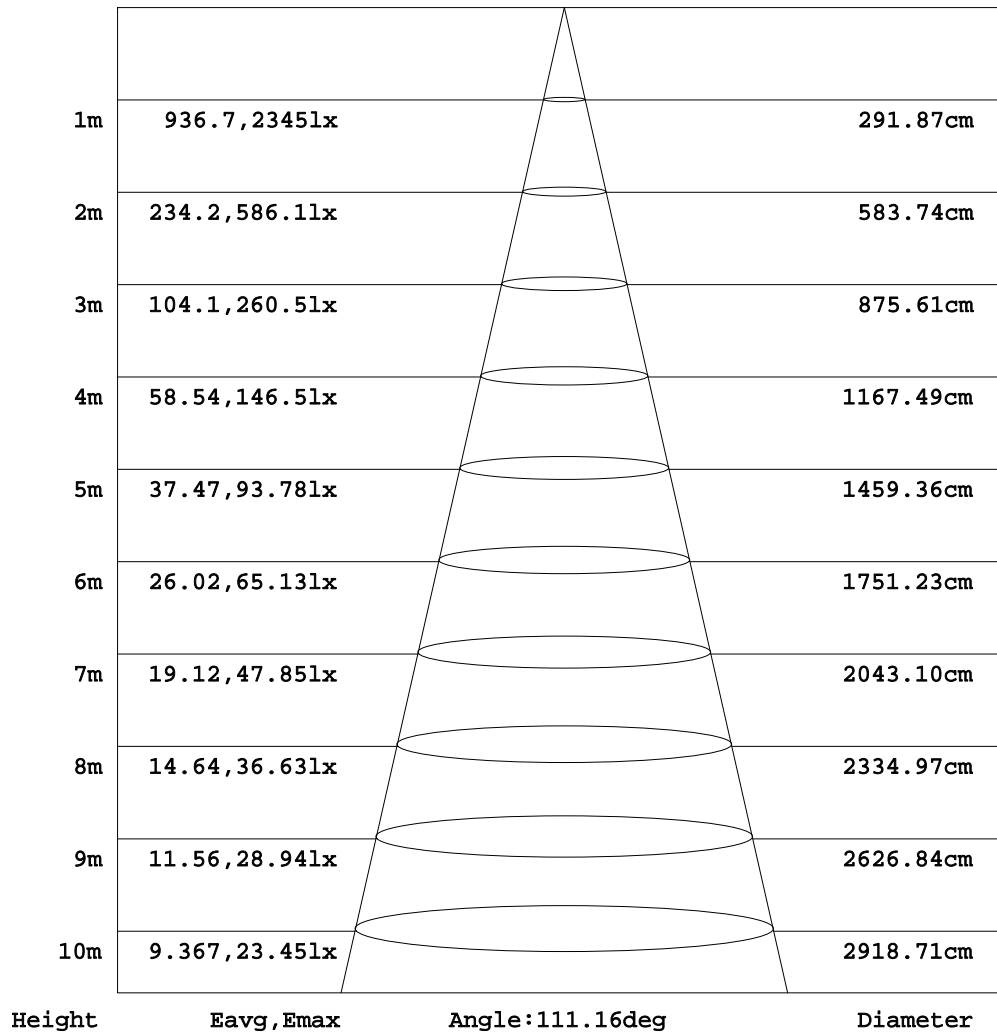
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks:

AAI Figure

NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

Flux out:6468 lm

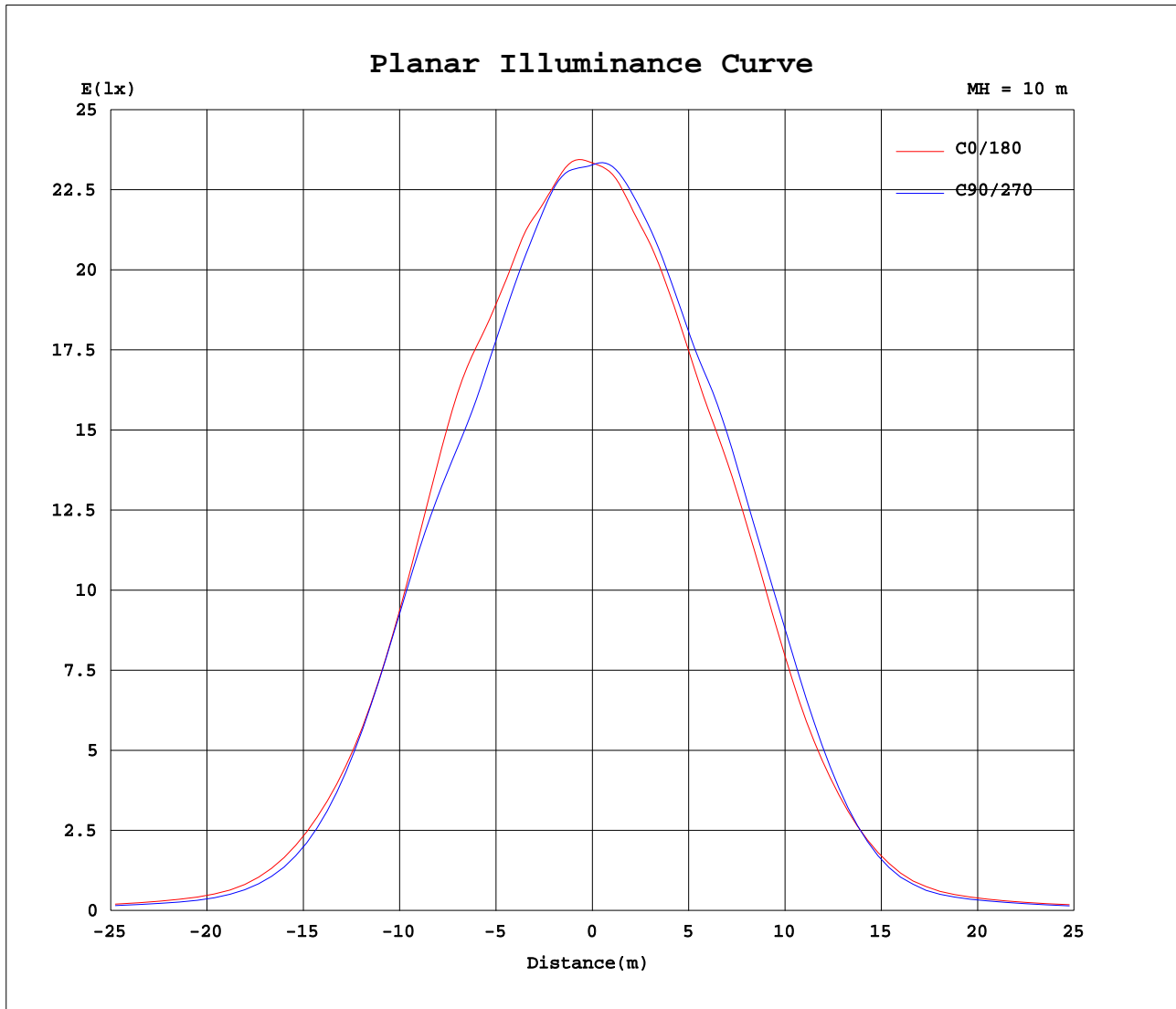


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks:

E:\ies文件夹\H4 H5 H6 工厂灯嵌灯 3030 GOS\110\ZGSM-XXX60H6 110.GOS

E:\ies文件夹\H4 H5 H6 工厂灯嵌灯 3030 GOS\110\ZGSM-XXX60H6 110.GOS