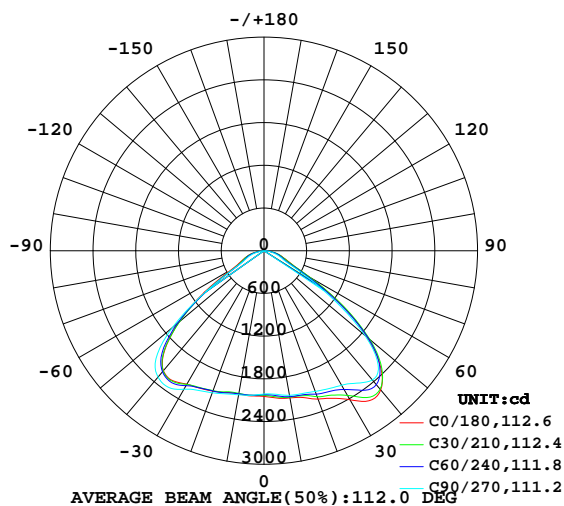


LUMINAIRE PHOTOMETRIC TEST REPORT

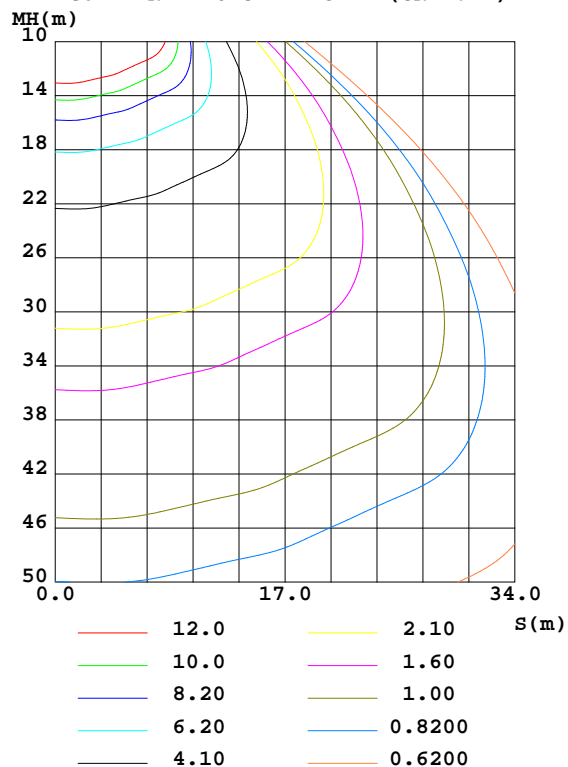
NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.00 lm/W			
MODEL	ZGSM-GCD50H5	Imax(cd)	2590	S/MH(C0/180)	1.58
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.63
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	6500.0	η UP,DN(C0-180)	0.0,51.1
NOMINAL FLUX(lm)	6500	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	2099	2086	2061	2024	2044	2037	2055	2060	0- 10	195.0	195.0	3,3
20	2217	2161	2103	2072	2099	2093	2123	2158	10- 20	591.1	786.1	12.1,12.1
30	2416	2305	2181	2140	2165	2182	2246	2374	20- 30	1008	1795	27.6,27.6
40	2551	2502	2369	2201	2199	2201	2317	2426	30- 40	1462	3256	50.1,50.1
50	1892	1941	1851	1606	1560	1555	1679	1771	40- 50	1629	4885	75.2,75.2
60	726.0	723.8	582.8	524.8	523.1	449.1	433.5	547.0	50- 60	1007	5892	90.6,90.6
70	296.1	276.2	232.0	261.6	277.1	257.7	216.0	258.2	60- 70	357.7	6250	96.2,96.2
80	118.6	135.9	99.19	117.3	106.3	104.5	18.49	115.0	70- 80	200.4	6450	99.2,99.2
90	6.957	7.702	1.758	6.602	6.226	4.388	1.234	5.090	80- 90	49.75	6500	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): 4094.1 lm

%lum = 63.0%

%lamp = 63.0%

Conical surface Flux(120deg): 5892.2 lm

%lum = 90.6%

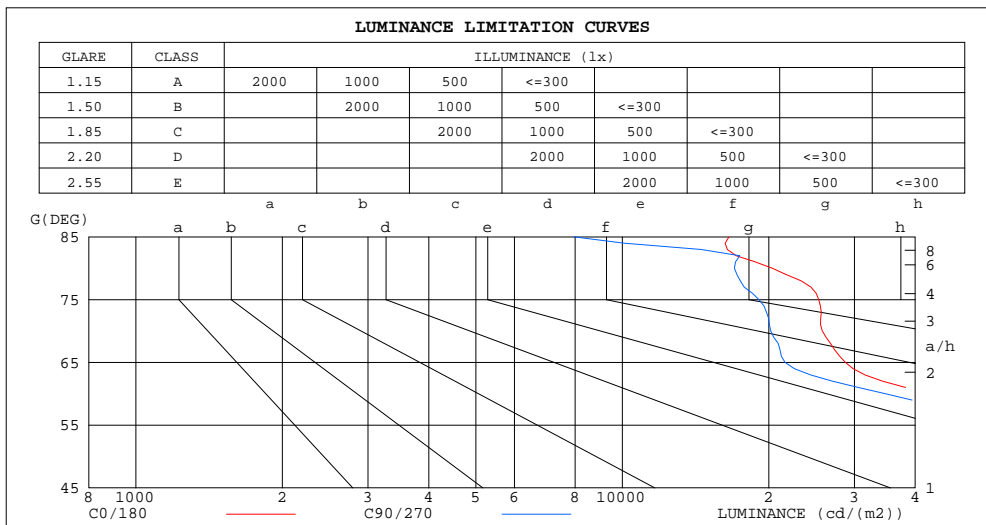
%lamp = 90.6%

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	16571	7948
80	20330	17000
75	25346	19086
70	25767	20187
65	28738	21598
60	43214	34690
55	69982	61729
50	87595	85708
45	97573	95452

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	.042		
2.0	.257	.141	.043	.251	.138	.043	.239	.133	.041	.229	.128	.040	.219	.124	.039		
3.0	.243	.130	.039	.238	.128	.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	.167	.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	.157	.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	.125	.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	22.8	21.6	23.0	23.2	20.9	22.3	21.1	22.5	22.7
3H					21.5	22.8	21.8	23.1	23.3	21.0	22.3	21.2	22.5	22.7
4H					21.7	22.9	22.0	23.2	23.4	21.0	22.3	21.3	22.5	22.8
6H					21.8	22.9	22.1	23.2	23.5	21.1	22.2	21.4	22.5	22.8
8H					21.8	22.9	22.1	23.2	23.5	21.1	22.2	21.4	22.5	22.8
12H					21.8	22.8	22.1	23.1	23.4	21.1	22.1	21.4	22.4	22.7
4H 2H					21.3	22.6	21.7	22.8	23.1	20.9	22.2	21.2	22.4	22.7
3H					21.7	22.8	22.0	23.0	23.3	21.2	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					22.2	23.0	22.6	23.4	23.7	21.5	22.3	21.9	22.7	23.0
8H					22.2	23.0	22.6	23.4	23.8	21.5	22.3	21.9	22.7	23.1
12H					22.3	23.0	22.7	23.4	23.8	21.5	22.2	21.9	22.6	23.0
8H 4H					22.0	22.8	22.4	23.1	23.5	21.4	22.2	21.8	22.6	22.9
6H					22.3	23.0	22.8	23.4	23.8	21.6	22.3	22.1	22.7	23.1
8H					22.4	23.0	22.9	23.4	23.9	21.7	22.3	22.2	22.7	23.2
12H					22.5	23.0	23.0	23.5	23.9	21.8	22.3	22.3	22.7	23.2
12H 4H					21.9	22.7	22.4	23.1	23.5	21.4	22.1	21.8	22.5	22.9
6H					22.3	22.9	22.8	23.3	23.8	21.7	22.2	22.1	22.7	23.1
8H					22.5	22.9	22.9	23.4	23.9	21.8	22.3	22.3	22.7	23.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.5 / - 0.7					+ 0.7 / - 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, 6500 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.5$)

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:

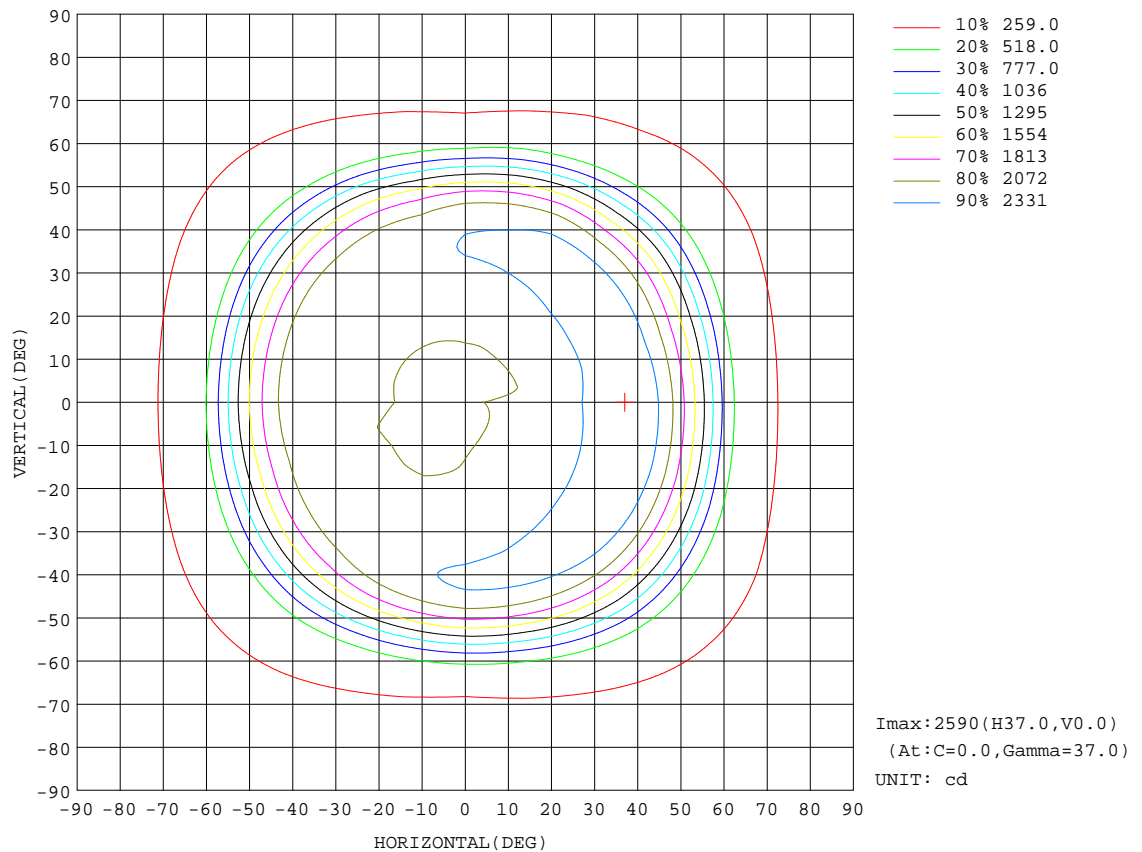
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	60	48	42	59	48	42	58	48	41	35
0.80	71	60	53	70	59	53	68	59	52	46
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:

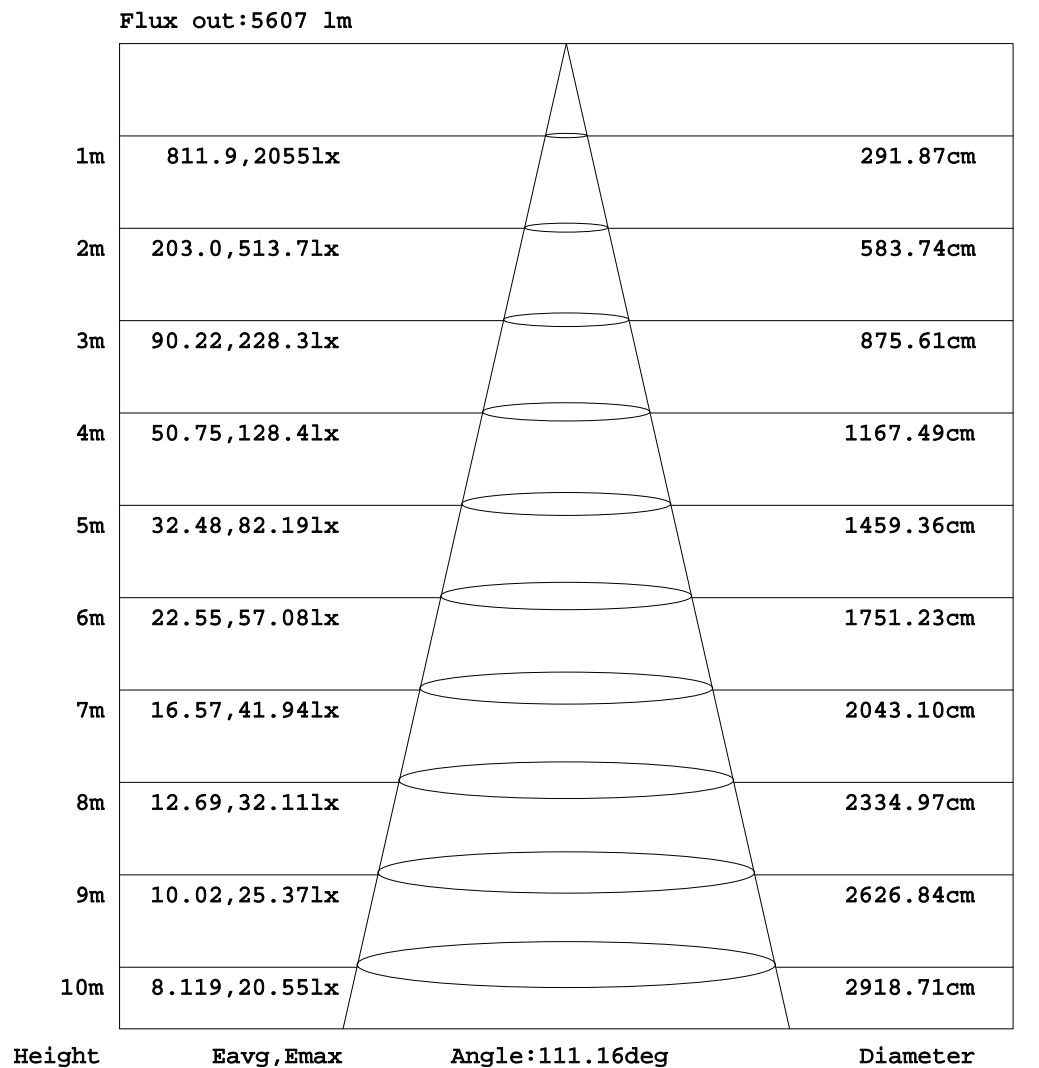


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017

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:

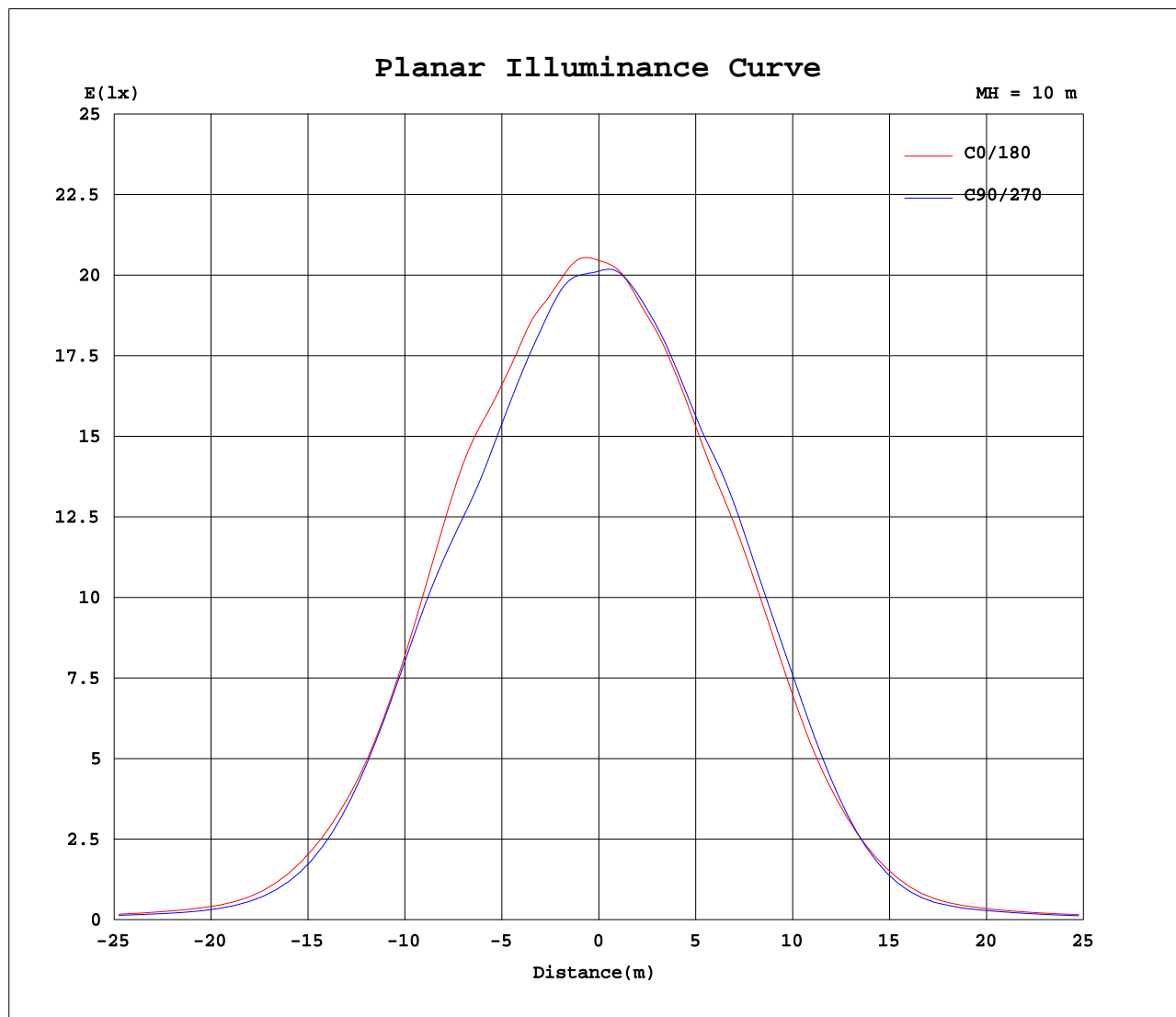


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-XXX50H5 110.GOS