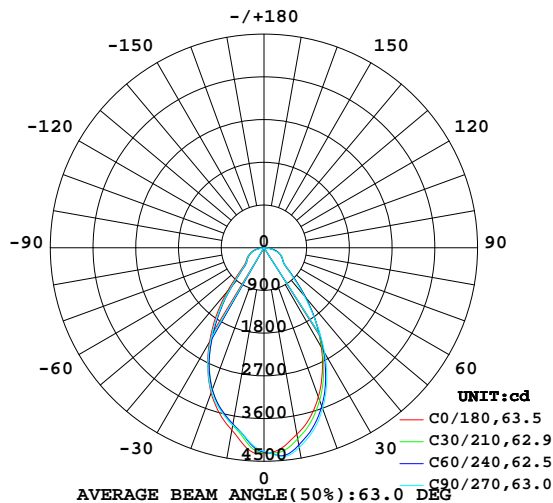


LUMINAIRE PHOTOMETRIC TEST REPORT

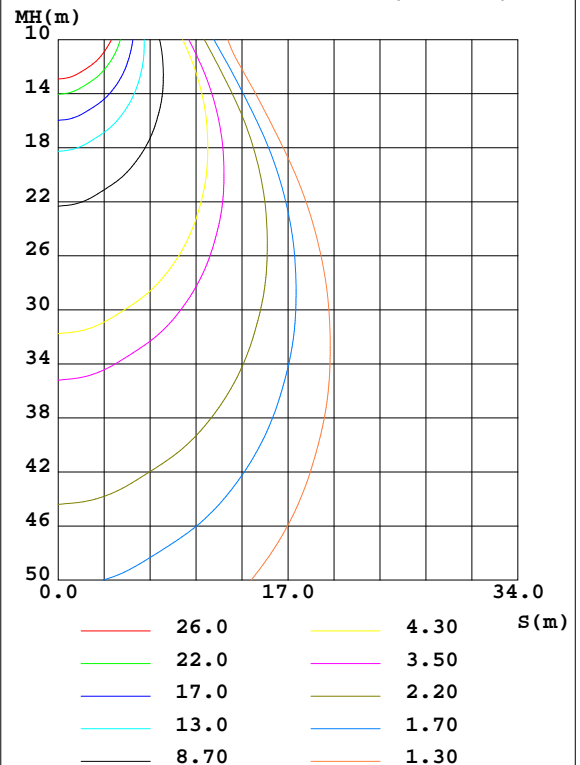
NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.76 lm/W			
MODEL	ZGSM-GCD40H4	Imax(cd)	4422	S/MH(C0/180)	0.91
NOMINAL POWER(W)	40	LOR(%)	99.1	S/MH(C90/270)	0.92
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	5550.4	η UP,DN(C0-180)	0.0,52.1
NOMINAL FLUX(lm)	5600	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.1	η down(%)	99.1	CIBSE SHR MAX	1.00

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	3990	4157	4273	4084	3903	3774	3795	3870	0- 10	394.1	394.1	7.1, 7.04
20	3349	3495	3607	3454	3256	3166	3230	3277	10- 20	1037	1431	25.8, 25.6
30	2419	2496	2557	2423	2299	2165	2249	2296	20- 30	1321	2753	49.6, 49.2
40	1365	1377	1327	1261	1202	1019	1058	1163	30- 40	1108	3860	69.6, 68.9
50	568.8	597.9	587.1	539.4	519.4	481.5	487.6	508.7	40- 50	613.8	4474	80.6, 79.9
60	448.4	449.0	446.5	408.6	406.1	386.1	386.8	404.8	50- 60	415.1	4889	88.1, 87.3
70	338.7	346.5	329.5	304.2	291.9	272.5	261.1	301.6	60- 70	358.3	5248	94.5, 93.7
80	153.8	187.8	139.9	148.0	111.2	118.4	20.67	145.7	70- 80	237.3	5485	98.8, 97.9
90	12.79	21.20	3.093	6.068	5.116	3.408	1.211	6.271	80- 90	65.38	5550	100, 99.1
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): 4219.3 lm

%lum = 76.0%

%lamp = 75.3%

Conical surface Flux(120deg): 4889.4 lm

%lum = 88.1%

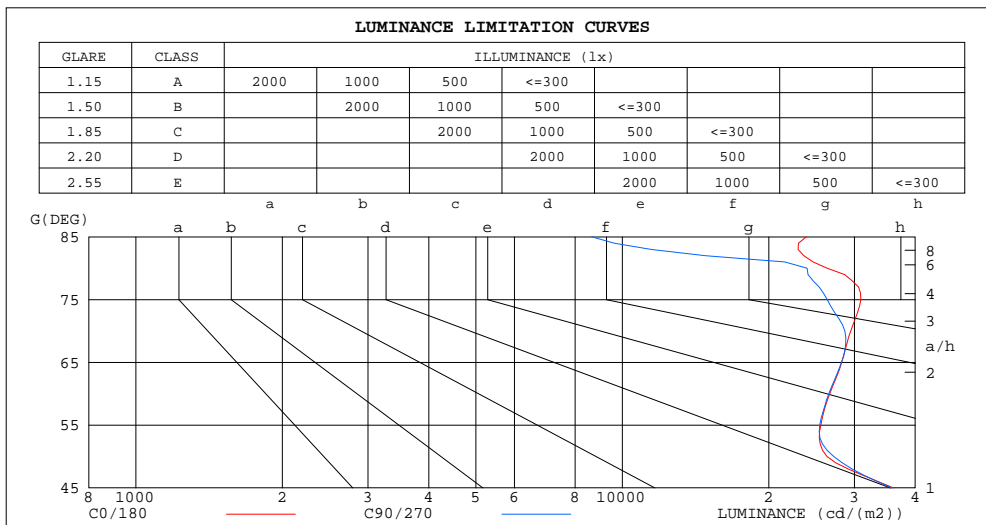
%lamp = 87.3%

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	23880	8655
80	26358	23970
75	30932	26372
70	29477	28674
65	28243	28220
60	26690	26579
55	25597	25448
50	26337	27186
45	36089	35832

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	.246	.140	.044	.239	.136	.043	.226	.130	.041	.214	.124	.040	.204	.118	.038		
2.0	.231	.127	.039	.225	.124	.038	.214	.119	.037	.204	.115	.036	.195	.110	.035		
3.0	.216	.115	.034	.210	.113	.034	.201	.109	.033	.192	.105	.032	.184	.102	.031		
4.0	.201	.104	.031	.196	.103	.030	.188	.100	.030	.180	.097	.029	.173	.094	.029		
5.0	.188	.096	.028	.184	.094	.027	.176	.092	.027	.169	.089	.027	.163	.087	.026		
6.0	.176	.088	.025	.172	.087	.025	.166	.085	.025	.160	.083	.024	.154	.081	.024		
7.0	.165	.082	.023	.162	.081	.023	.156	.079	.023	.151	.077	.023	.146	.076	.022		
8.0	.156	.076	.021	.153	.075	.021	.148	.074	.021	.143	.072	.021	.138	.071	.021		
9.0	.147	.071	.020	.145	.071	.020	.140	.069	.020	.136	.068	.019	.132	.067	.019		
10.0	.140	.067	.019	.138	.066	.019	.133	.065	.018	.129	.064	.018	.126	.063	.018		

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	.189	.189	.189	.161	.161	.161	.110	.110	.110	.063	.063	.063	.020	.020	.020		
1.0	.174	.155	.138	.149	.133	.119	.102	.092	.082	.059	.053	.048	.019	.017	.015		
2.0	.163	.131	.104	.140	.113	.090	.096	.078	.063	.055	.045	.037	.018	.015	.012		
3.0	.153	.113	.081	.131	.097	.070	.090	.068	.049	.052	.040	.029	.017	.013	.010		
4.0	.144	.099	.065	.124	.086	.056	.085	.060	.040	.049	.035	.023	.016	.011	.008		
5.0	.136	.088	.053	.117	.076	.046	.080	.053	.032	.047	.031	.019	.015	.010	.006		
6.0	.129	.079	.044	.111	.069	.038	.076	.048	.027	.044	.028	.016	.014	.009	.005		
7.0	.122	.072	.037	.105	.063	.032	.073	.044	.023	.042	.026	.014	.014	.008	.005		
8.0	.116	.066	.032	.100	.058	.028	.069	.040	.020	.040	.024	.012	.013	.008	.004		
9.0	.111	.061	.028	.095	.053	.024	.066	.037	.017	.038	.022	.010	.012	.007	.003		
10.0	.106	.057	.025	.091	.049	.022	.063	.035	.015	.037	.021	.009	.012	.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					17.2	18.4	17.4	18.6	18.8	17.1	18.3	17.3	18.5	18.7
3H					18.8	19.9	19.1	20.2	20.4	18.6	19.8	18.9	20.0	20.2
4H					19.6	20.7	19.9	21.0	21.2	19.3	20.4	19.6	20.7	20.9
6H					20.3	21.3	20.6	21.6	21.8	19.9	20.9	20.2	21.1	21.4
8H					20.5	21.5	20.8	21.7	22.0	19.9	20.9	20.3	21.2	21.5
12H					20.6	21.5	20.9	21.8	22.1	19.9	20.9	20.3	21.2	21.5
4H 2H					17.7	18.8	18.0	19.0	19.3	17.6	18.7	17.9	19.0	19.2
3H					19.7	20.6	20.0	20.9	21.2	19.5	20.4	19.8	20.7	21.0
4H					20.7	21.5	21.0	21.8	22.2	20.4	21.2	20.7	21.5	21.9
6H					21.5	22.3	21.9	22.6	23.0	21.0	21.8	21.4	22.1	22.5
8H					21.8	22.5	22.2	22.8	23.2	21.2	21.9	21.6	22.3	22.6
12H					21.9	22.6	22.4	23.0	23.4	21.3	21.9	21.7	22.3	22.7
8H 4H					21.1	21.8	21.5	22.1	22.5	20.8	21.5	21.2	21.9	22.3
6H					22.1	22.7	22.5	23.1	23.5	21.7	22.3	22.1	22.7	23.1
8H					22.5	23.0	22.9	23.4	23.9	21.9	22.5	22.4	22.9	23.3
12H					22.8	23.2	23.3	23.7	24.2	22.1	22.6	22.6	23.0	23.5
12H 4H					21.1	21.7	21.5	22.1	22.5	20.9	21.5	21.3	21.9	22.3
6H					22.2	22.7	22.6	23.1	23.6	21.8	22.3	22.2	22.7	23.2
8H					22.6	23.1	23.1	23.5	24.0	22.1	22.6	22.6	23.0	23.5
Variations with the observer position at spacings:														
S = 1.0H					+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H					+ 0.4 / - 0.3					+ 0.4 / - 0.3				
2.0H					+ 0.2 / - 0.3					+ 0.3 / - 0.2				

CIE Pub.117, 5600 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.0$)

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:

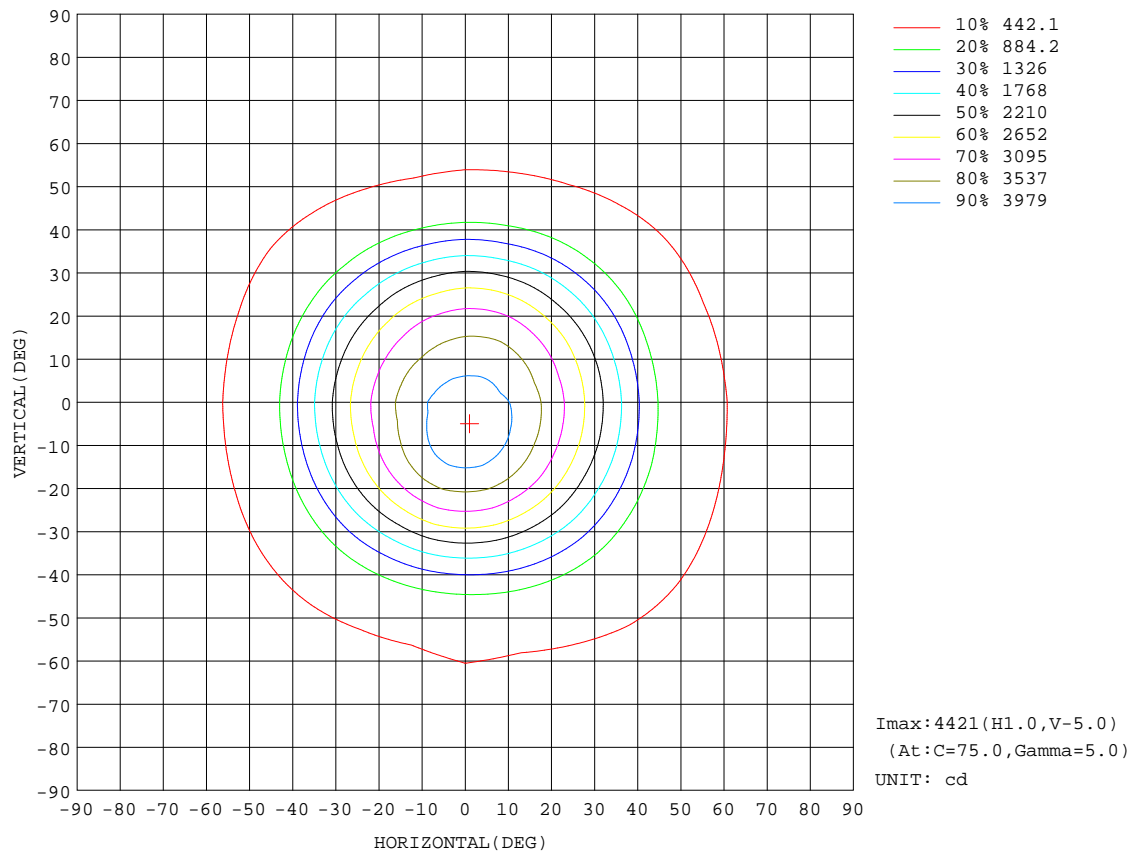
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	72	64	58	72	63	58	71	63	58	53
0.80	81	72	67	80	72	67	79	71	66	61
1.00	87	79	73	86	78	73	84	79	73	67
1.25	92	85	79	91	84	79	89	83	78	72
1.50	96	89	84	95	88	83	92	86	82	76
2.00	101	94	90	99	93	89	96	91	87	81
2.50	104	98	93	102	96	92	98	94	90	83
3.00	106	101	97	104	99	96	100	97	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	103	104	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 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:

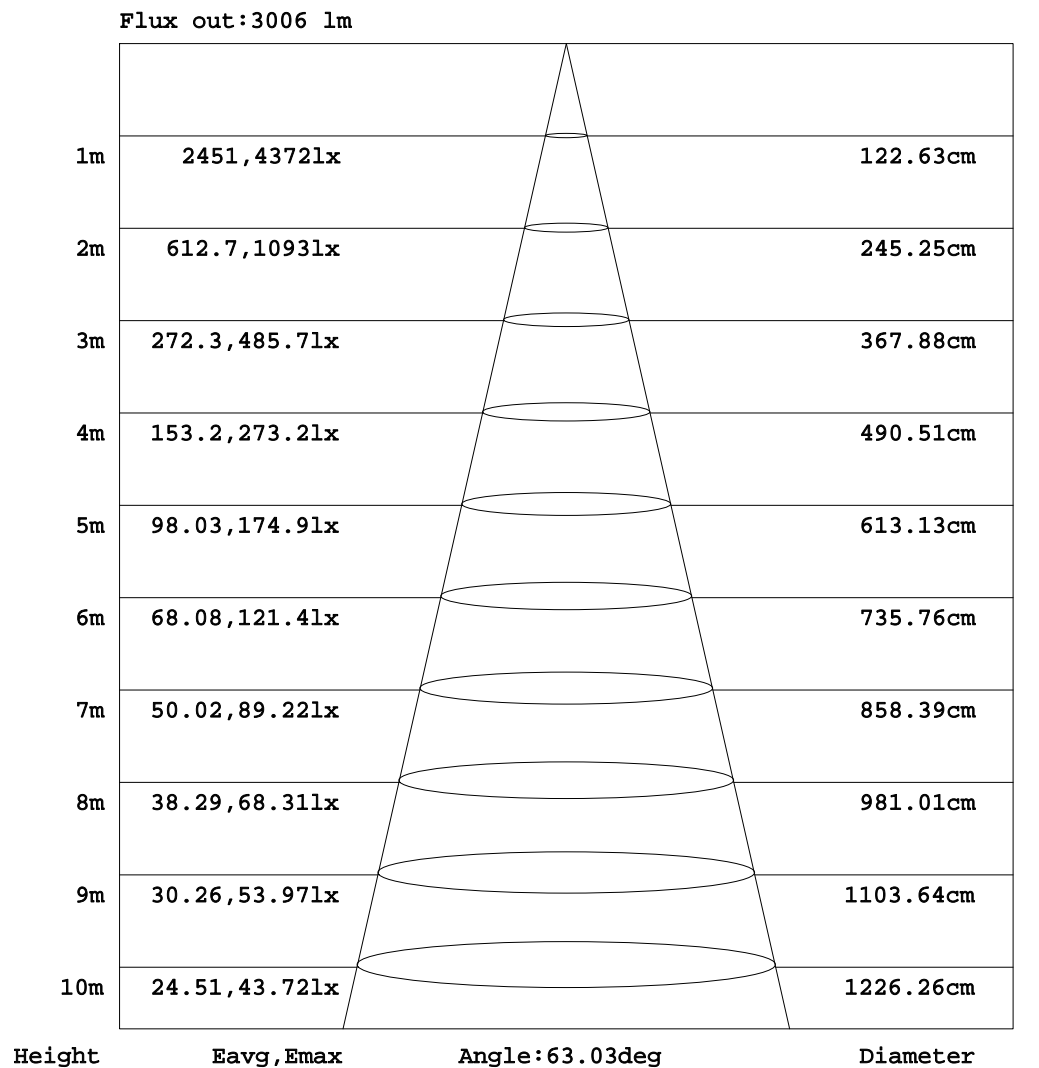


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017

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:

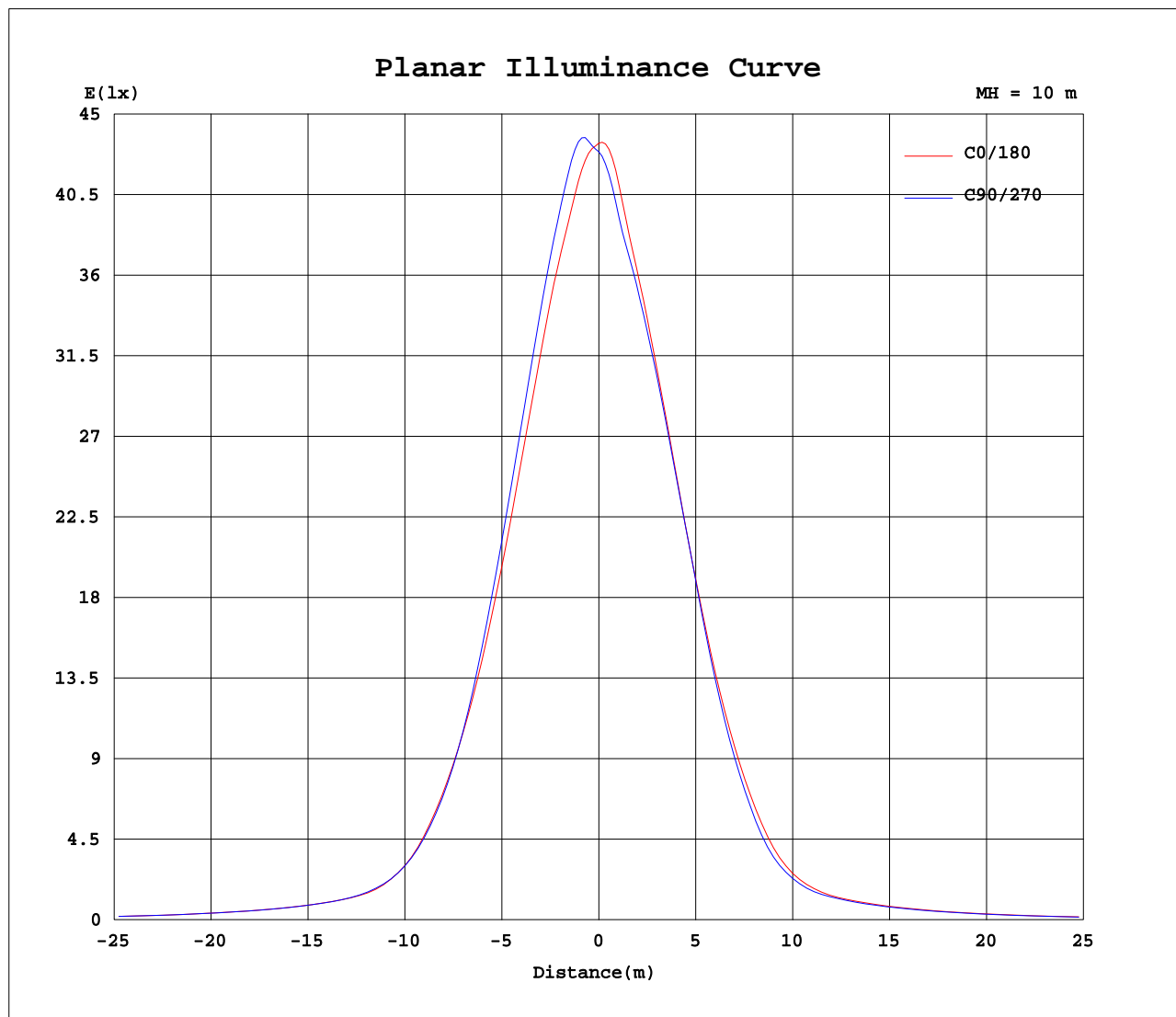


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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\60\ZGSM-GCD40H4 60.GOS

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

UNIT: cd

```

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:

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