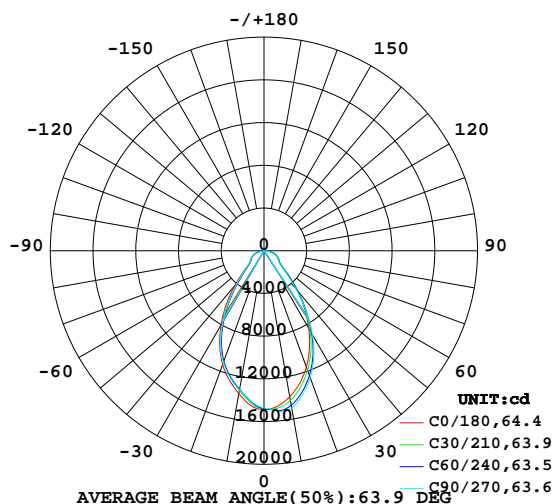


LUMINAIRE PHOTOMETRIC TEST REPORT

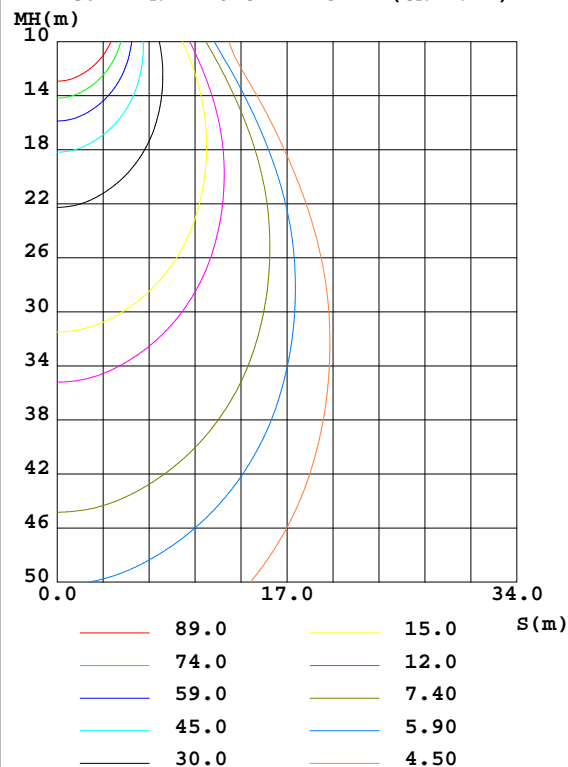
NAME: LED灯	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.39 lm/W			
MODEL	ZGSM-GCD150H5	Imax(cd)	15183	S/MH(C0/180)	0.92
NOMINAL POWER(W)	150	LOR(%)	99.5	S/MH(C90/270)	0.91
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	19408	η UP,DN(C0-180)	0.0,52.6
NOMINAL FLUX(lm)	19500	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,46.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.1	η down(%)	99.5	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	1388	1447	1494	1415	1359	1318	1322	1340	0- 10	1364	1364	7.03,6.99
20	1160	1220	1263	1204	1134	1098	1113	1128	10- 20	3603	4966	25.6,25.5
30	838.2	884.0	909.2	852.6	805.8	753.3	770.3	787.8	20- 30	4596	9562	49.3,49
40	480.1	497.6	470.3	444.1	423.0	358.2	370.9	406.3	30- 40	3883	13445	69.3,69
50	203.8	214.2	201.3	181.6	178.0	167.9	172.3	181.8	40- 50	2183	15628	80.5,80.1
60	162.3	159.5	153.4	140.7	141.6	135.8	138.1	147.1	50- 60	1456	17085	88,87.6
70	122.8	124.0	114.9	103.6	100.1	95.13	92.35	110.0	60- 70	1269	18353	94.6,94.1
80	56.10	67.46	46.10	50.29	38.55	38.33	10.47	49.33	70- 80	825.8	19179	98.8,98.4
90	4.857	7.461	1.144	2.140	1.960	1.363	0.4378	2.322	80- 90	229.5	19408	100,99.5
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:×10cd									UNIT:lm		

Conical surface Flux(90deg): 14724 lm

%lum = 75.9%

%lamp = 75.5%

Conical surface Flux(120deg): 17085 lm

%lum = 88.0%

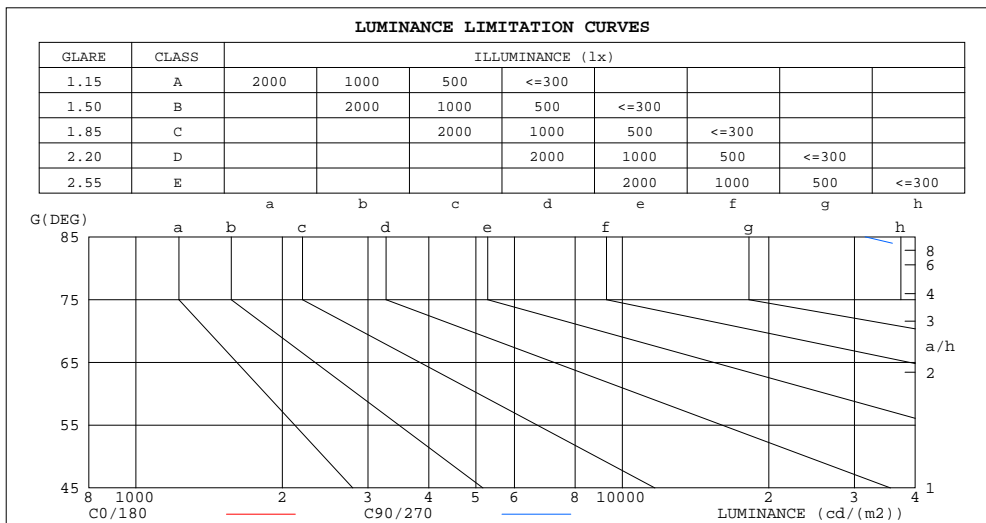
%lamp = 87.6%

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	84137	31562
80	96144	79006
75	112037	91714
70	106881	99952
65	102529	97526
60	96623	91286
55	91573	86710
50	94371	93202
45	131611	125255

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	.247	.141	.045	.241	.137	.044	.228	.131	.042	.216	.124	.040	.205	.119	.038		
2.0	.233	.128	.039	.227	.125	.039	.216	.120	.037	.206	.115	.036	.196	.111	.035		
3.0	.217	.115	.035	.212	.113	.034	.202	.110	.033	.193	.106	.032	.185	.102	.032		
4.0	.202	.105	.031	.198	.103	.031	.189	.100	.030	.181	.097	.029	.174	.095	.029		
5.0	.189	.096	.028	.185	.095	.028	.177	.092	.027	.170	.090	.027	.164	.088	.026		
6.0	.177	.089	.025	.173	.088	.025	.167	.085	.025	.161	.083	.025	.155	.082	.024		
7.0	.166	.082	.023	.163	.081	.023	.157	.080	.023	.152	.078	.023	.147	.076	.022		
8.0	.157	.077	.022	.154	.076	.021	.149	.074	.021	.144	.073	.021	.139	.071	.021		
9.0	.148	.072	.020	.146	.071	.020	.141	.070	.020	.137	.069	.020	.133	.067	.019		
10.0	.141	.067	.019	.138	.067	.019	.134	.066	.019	.130	.065	.018	.126	.064	.018		

ρcc	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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.190	.190	.190	.162	.162	.162	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.175	.156	.139	.150	.134	.119	.103	.092	.082	.059	.053	.048	.019	.017	.016		
2.0	.164	.132	.105	.140	.113	.090	.096	.078	.063	.055	.046	.037	.018	.015	.012		
3.0	.154	.113	.081	.132	.098	.070	.090	.068	.049	.052	.040	.029	.017	.013	.010		
4.0	.145	.099	.065	.124	.086	.056	.085	.060	.040	.049	.035	.023	.016	.011	.008		
5.0	.137	.089	.053	.117	.077	.046	.081	.054	.033	.047	.031	.019	.015	.010	.006		
6.0	.129	.080	.044	.111	.069	.038	.077	.048	.027	.045	.028	.016	.014	.009	.005		
7.0	.123	.073	.037	.106	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005		
8.0	.117	.067	.032	.101	.058	.028	.070	.041	.020	.040	.024	.012	.013	.008	.004		
9.0	.111	.062	.028	.096	.053	.024	.066	.038	.017	.039	.022	.010	.013	.007	.003		
10.0	.106	.057	.025	.092	.050	.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					17.4	18.6	17.6	18.8	19.0	17.2	18.4	17.4	18.6	18.8
3H					19.0	20.2	19.3	20.4	20.6	18.7	19.8	19.0	20.1	20.3
4H					19.9	21.0	20.2	21.2	21.4	19.4	20.5	19.7	20.7	21.0
6H					20.5	21.6	20.8	21.8	22.1	19.9	20.9	20.2	21.2	21.4
8H					20.7	21.7	21.0	22.0	22.2	20.0	21.0	20.3	21.3	21.5
12H					20.8	21.8	21.2	22.0	22.3	20.0	21.0	20.3	21.2	21.5
4H 2H					17.9	19.0	18.2	19.2	19.5	17.7	18.8	18.0	19.1	19.3
3H					19.9	20.8	20.2	21.1	21.4	19.6	20.5	19.9	20.8	21.1
4H					20.9	21.7	21.2	22.1	22.4	20.5	21.3	20.8	21.6	22.0
6H					21.7	22.5	22.1	22.8	23.2	21.1	21.9	21.5	22.2	22.6
8H					22.0	22.7	22.4	23.1	23.4	21.3	22.0	21.7	22.4	22.7
12H					22.2	22.8	22.6	23.2	23.6	21.4	22.0	21.8	22.4	22.8
8H 4H					21.3	22.0	21.7	22.3	22.7	20.9	21.6	21.3	22.0	22.4
6H					22.3	22.9	22.8	23.3	23.7	21.8	22.4	22.2	22.8	23.2
8H					22.7	23.2	23.2	23.7	24.1	22.1	22.6	22.5	23.0	23.5
12H					23.0	23.5	23.5	23.9	24.4	22.3	22.7	22.7	23.1	23.6
12H 4H					21.3	22.0	21.7	22.3	22.7	21.0	21.6	21.4	22.0	22.4
6H					22.4	22.9	22.9	23.4	23.8	21.9	22.4	22.3	22.8	23.3
8H					22.9	23.3	23.3	23.8	24.2	22.2	22.7	22.7	23.1	23.6
Variations with the observer position at spacings:														
S = 1.0H					+ 0.2 / - 0.3					+ 0.3 / - 0.4				
1.5H					+ 0.4 / - 0.3					+ 0.5 / - 0.4				
2.0H					+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 19500 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.3)

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:

UTILIZATION FACTORS TABLE

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

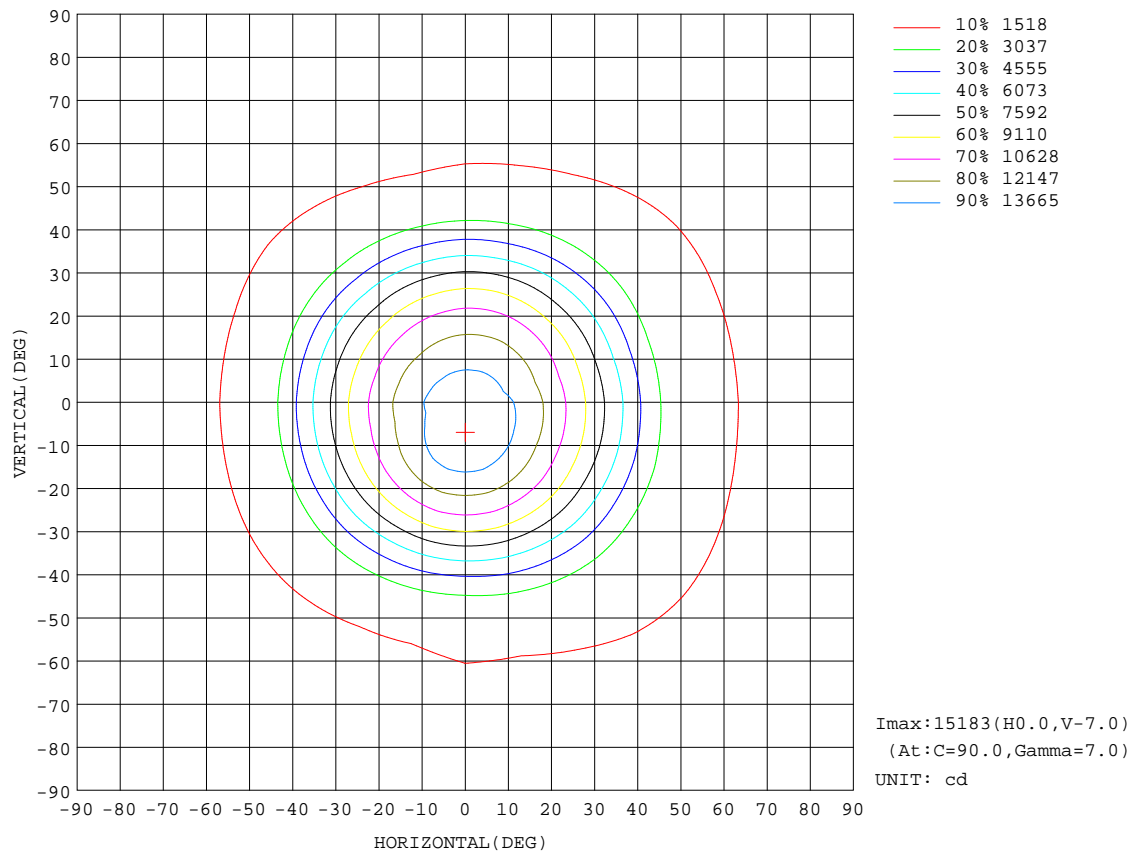
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	72	64	58	72	63	58	71	63	58	53
0.80	81	72	67	80	72	67	79	71	66	61
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	85	80	91	84	79	89	83	78	73
1.50	96	89	84	95	88	83	92	87	82	76
2.00	101	95	90	99	94	89	96	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	106	101	97	104	100	96	101	97	94	86
4.00	109	105	102	107	103	100	103	100	98	90
5.00	111	108	105	109	106	103	105	102	100	92
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:



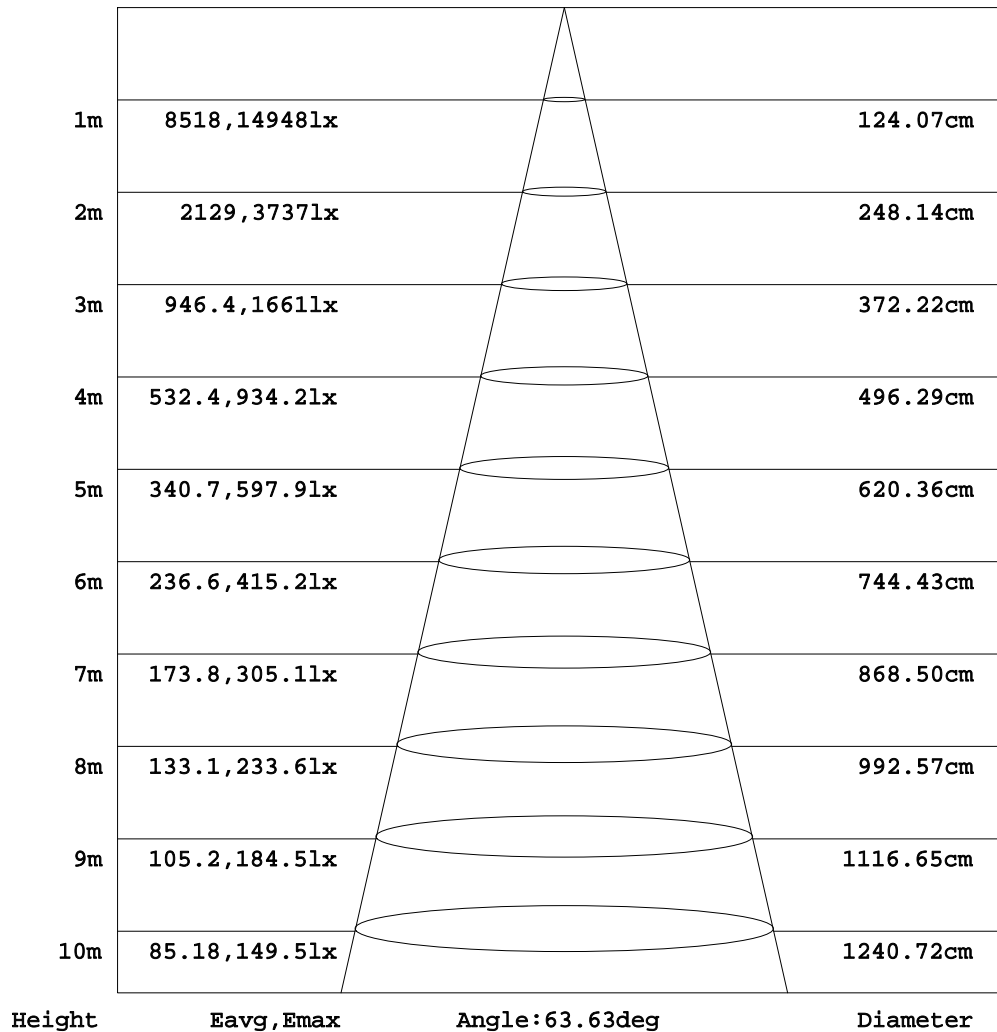
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

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:10449 lm

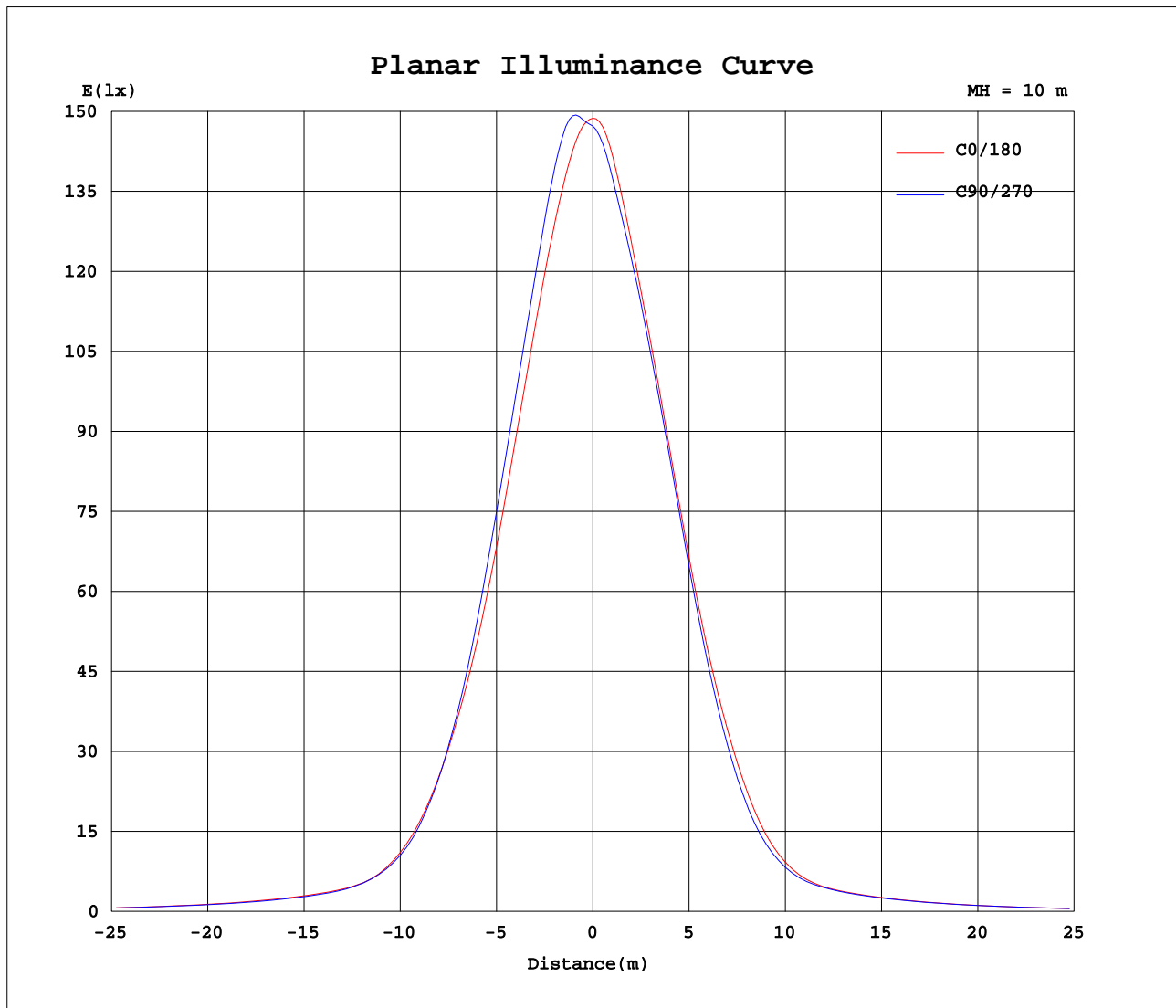


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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\60\ZGSM-XXX150H5 60.GOS