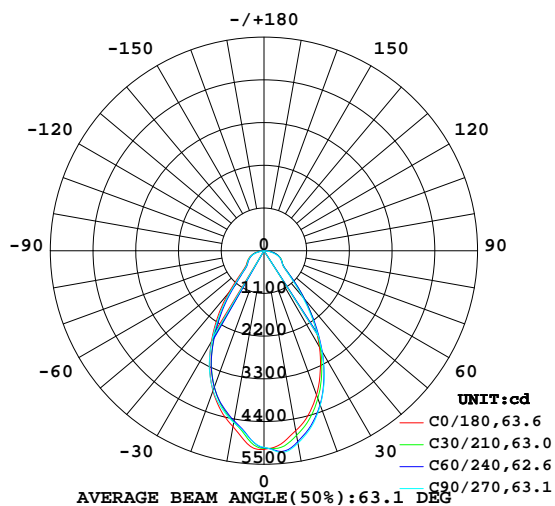


LUMINAIRE PHOTOMETRIC TEST REPORT

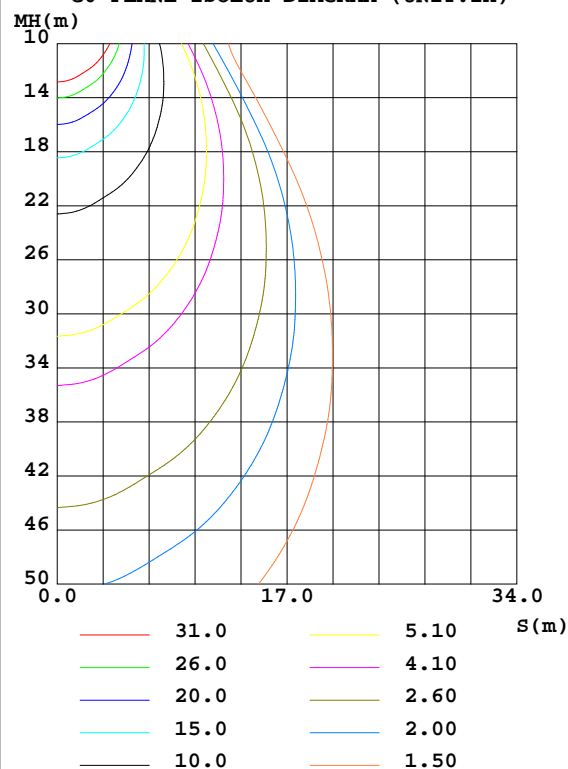
NAME: LED LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.15 lm/W			
MODEL	ZGSM-GCD50H5	Imax(cd)	5218	S/MH(C0/180)	0.91
NOMINAL POWER(W)	50	LOR(%)	100.9	S/MH(C90/270)	0.92
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	6557.4	η UP,DN(C0-180)	0.0,53.0
NOMINAL FLUX(lm)	6500	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,47.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.1	η down(%)	100.9	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	4706	4913	5030	4814	4601	4447	4490	4578	0- 10	465.0	465.0	7.09,7.15
20	3954	4140	4237	4062	3844	3727	3830	3886	10- 20	1225	1690	25.8,26
30	2857	2966	2988	2834	2714	2540	2685	2735	20- 30	1560	3250	49.6,50
40	1614	1644	1539	1465	1418	1184	1278	1400	30- 40	1308	4558	69.5,70.1
50	672.7	712.7	685.8	630.9	613.4	567.5	580.2	605.5	40- 50	725.3	5283	80.6,81.3
60	529.8	531.5	525.9	481.8	479.8	455.8	459.5	480.2	50- 60	490.8	5774	88,88.8
70	400.3	410.5	385.7	357.5	345.2	321.1	313.9	359.5	60- 70	423.8	6197	94.5,95.3
80	185.0	224.4	165.3	172.2	131.6	138.7	25.42	176.7	70- 80	281.0	6479	98.8,99.7
90	15.29	25.72	4.663	8.258	6.192	4.436	1.453	8.196	80- 90	78.91	6557	100,101
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): 4981.5 lm

%lum = 76.0%

%lamp = 76.6%

Conical surface Flux(120deg): 5773.7 lm

%lum = 88.0%

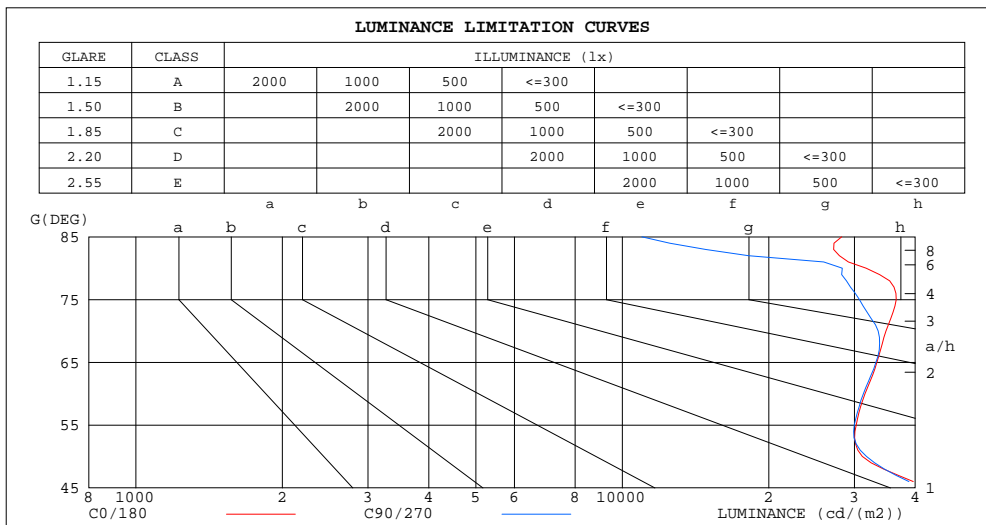
%lamp = 88.8%

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



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	28243	10967
80	31702	28333
75	36559	30709
70	34837	33567
65	33372	33221
60	31538	31302
55	30252	29982
50	31146	31755
45	42684	41538

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 LIGHTS	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	.251	.143	.045	.244	.139	.044	.231	.132	.042	.219	.126	.040	.208	.120	.039		
2.0	.236	.129	.040	.230	.127	.039	.218	.121	.038	.208	.117	.037	.198	.112	.035		
3.0	.220	.117	.035	.214	.115	.035	.205	.111	.034	.196	.107	.033	.187	.104	.032		
4.0	.205	.106	.031	.200	.105	.031	.191	.101	.030	.183	.098	.030	.176	.096	.029		
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.028	.172	.091	.027	.166	.089	.027		
6.0	.179	.090	.026	.175	.089	.026	.169	.086	.025	.163	.084	.025	.157	.082	.024		
7.0	.168	.083	.024	.165	.082	.023	.159	.080	.023	.154	.079	.023	.148	.077	.023		
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.021	.146	.074	.021	.141	.072	.021		
9.0	.150	.073	.020	.148	.072	.020	.143	.071	.020	.138	.069	.020	.134	.068	.020		
10.0	.142	.068	.019	.140	.068	.019	.136	.067	.019	.132	.065	.019	.128	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.178	.158	.140	.152	.136	.121	.104	.093	.084	.060	.054	.049	.019	.017	.016		
2.0	.166	.133	.106	.142	.115	.092	.097	.079	.064	.056	.046	.037	.018	.015	.012		
3.0	.156	.115	.082	.134	.099	.071	.092	.069	.050	.053	.040	.030	.017	.013	.010		
4.0	.147	.101	.066	.126	.087	.057	.087	.061	.040	.050	.036	.024	.016	.012	.008		
5.0	.139	.090	.054	.119	.078	.047	.082	.054	.033	.047	.032	.020	.015	.010	.006		
6.0	.131	.081	.045	.113	.070	.039	.078	.049	.028	.045	.029	.016	.015	.009	.005		
7.0	.124	.074	.038	.107	.064	.033	.074	.045	.023	.043	.026	.014	.014	.009	.005		
8.0	.118	.067	.033	.102	.059	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004		
9.0	.113	.062	.028	.097	.054	.025	.067	.038	.018	.039	.022	.010	.013	.007	.003		
10.0	.108	.058	.025	.093	.050	.022	.064	.035	.016	.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 LIGHTS					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					17.3	18.5	17.5	18.7	18.9	17.2	18.4	17.4	18.6	18.8
3H					18.9	20.0	19.2	20.2	20.5	18.7	19.9	19.0	20.1	20.3
4H					19.7	20.8	20.0	21.0	21.3	19.4	20.5	19.7	20.7	21.0
6H					20.4	21.4	20.7	21.7	21.9	19.9	21.0	20.3	21.2	21.5
8H					20.6	21.5	20.9	21.8	22.1	20.0	21.0	20.4	21.3	21.6
12H					20.7	21.6	21.0	21.9	22.2	20.0	21.0	20.4	21.3	21.6
4H 2H					17.8	18.9	18.1	19.1	19.4	17.7	18.8	18.0	19.1	19.3
3H					19.7	20.7	20.1	21.0	21.2	19.6	20.5	19.9	20.8	21.1
4H					20.7	21.6	21.1	21.9	22.2	20.5	21.3	20.8	21.6	22.0
6H					21.6	22.4	22.0	22.7	23.1	21.1	21.9	21.5	22.2	22.6
8H					21.9	22.6	22.3	22.9	23.3	21.3	22.0	21.7	22.4	22.8
12H					22.0	22.7	22.5	23.1	23.5	21.4	22.0	21.8	22.4	22.8
8H 4H					21.1	21.9	21.5	22.2	22.6	20.9	21.6	21.3	22.0	22.4
6H					22.2	22.8	22.6	23.2	23.6	21.8	22.4	22.2	22.8	23.2
8H					22.6	23.1	23.0	23.5	24.0	22.1	22.6	22.5	23.0	23.5
12H					22.9	23.3	23.4	23.8	24.3	22.3	22.7	22.7	23.2	23.6
12H 4H					21.2	21.8	21.6	22.2	22.6	21.0	21.6	21.4	22.0	22.4
6H					22.3	22.8	22.7	23.2	23.7	21.9	22.4	22.3	22.8	23.3
8H					22.7	23.2	23.2	23.6	24.1	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 / - 0.3				
1.5H					+ 0.4 / - 0.3					+ 0.4 / - 0.3				
2.0H					+ 0.2 / - 0.3					+ 0.3 / - 0.3				

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

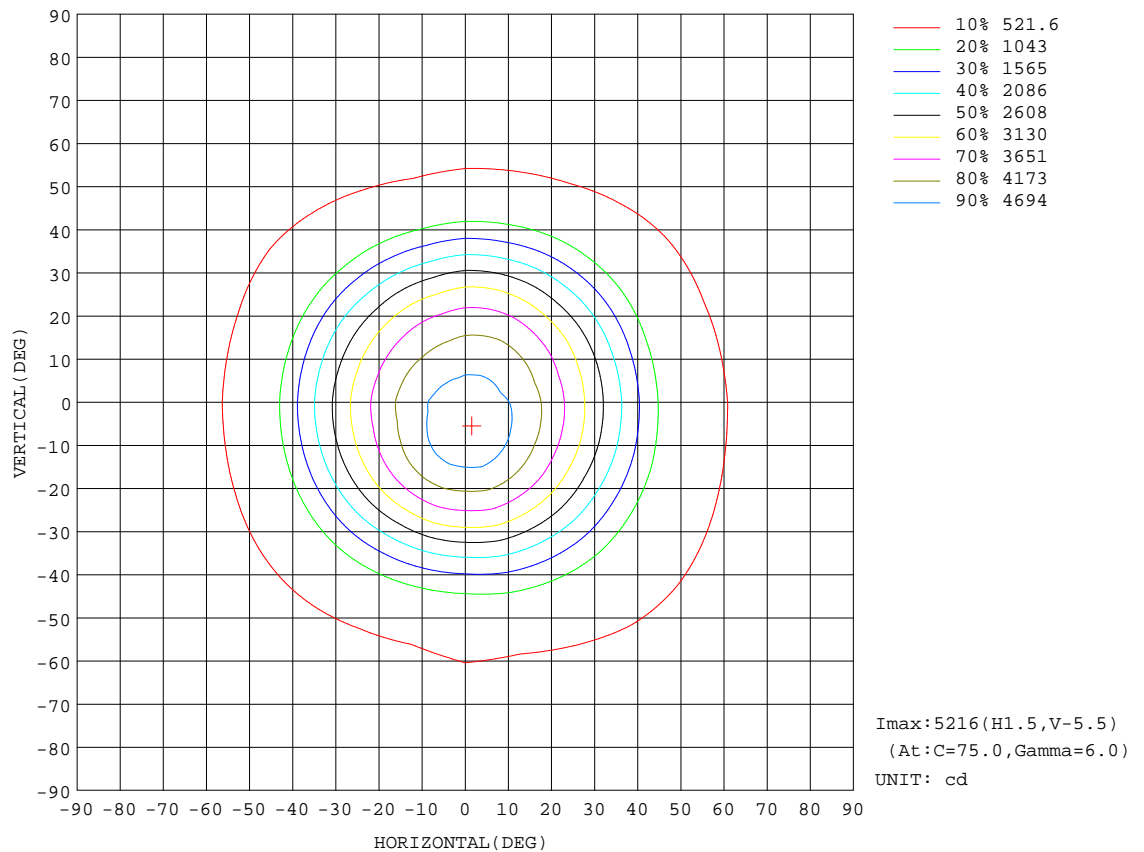
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	74	65	59	73	64	59	72	64	59	54
0.80	82	73	68	81	73	68	80	72	67	62
1.00	89	80	75	87	80	74	86	80	74	68
1.25	94	86	81	93	85	80	90	84	80	74
1.50	98	90	85	96	90	85	94	88	84	78
2.00	103	96	91	101	95	90	98	93	89	82
2.50	105	99	95	104	98	94	100	96	92	85
3.00	108	103	98	106	101	97	102	98	95	88
4.00	111	107	103	109	105	102	105	102	99	91
5.00	113	109	106	110	107	105	106	104	101	93
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 LIGHTS	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:21cm*16cm	Shielding Angle:

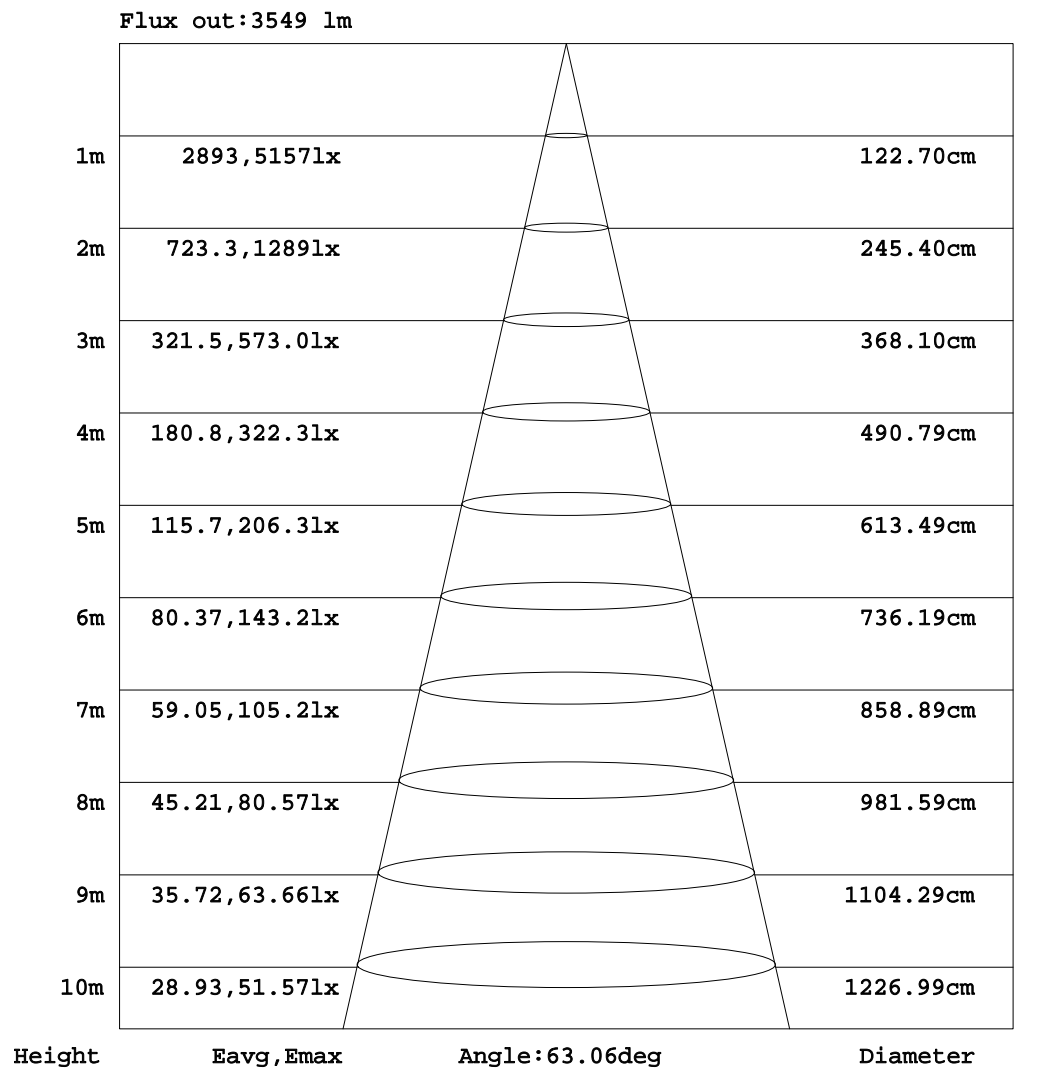


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017

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

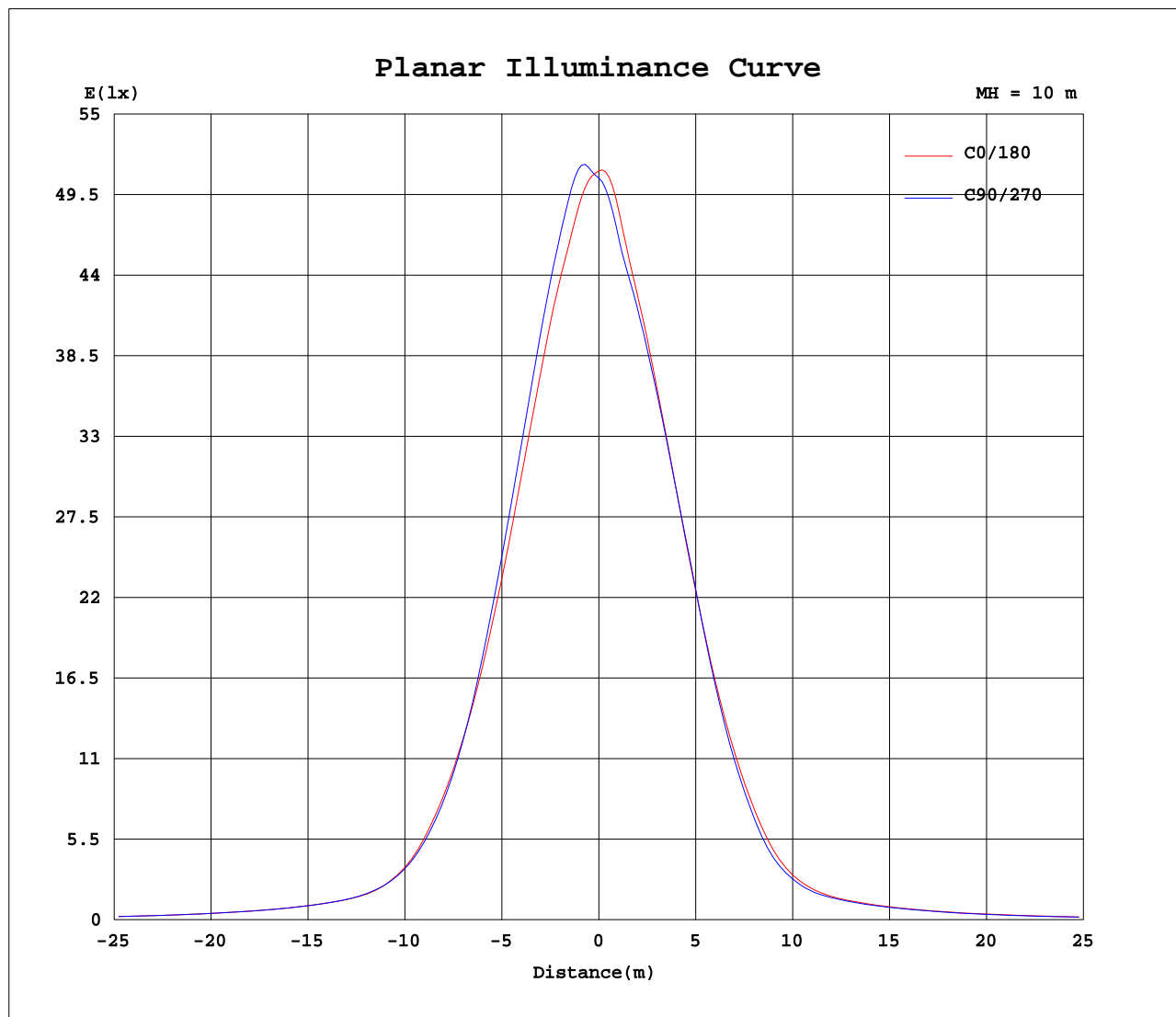


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-XXX50H5 60.GOS

E:\ies文件夹\H4 H5 H6 工厂灯嵌灯 3030 GOS\60\ZGSM-XXX50H5 60.GOS