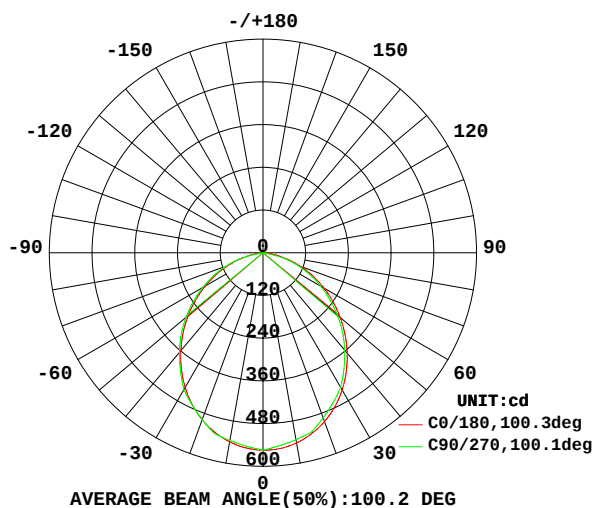


LUMINAIRE PHOTOMETRIC TEST REPORT

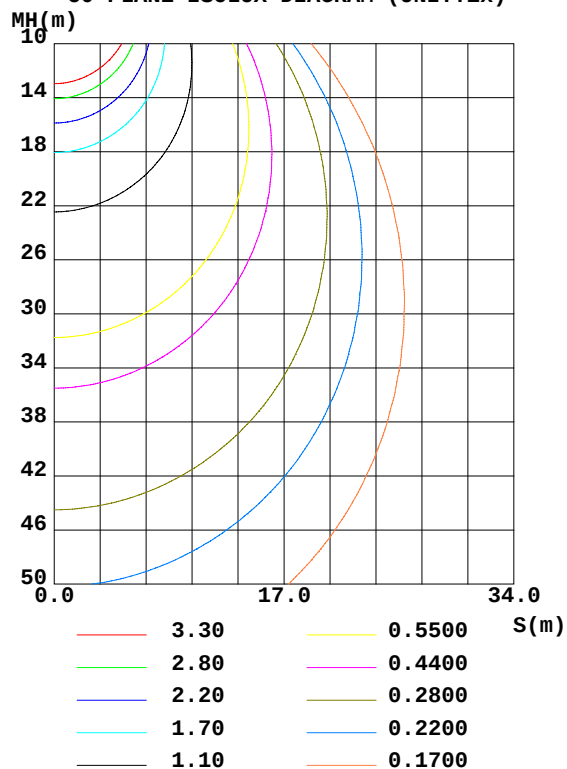
Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 85.40 lm/W
MODEL	2835 5P15S	I _{max} (cd)	554.7	S/MH(C0/180)	1.20	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.18	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1340.7	η UP, DN(C0-180)	0.0, 50.4	
NOMINAL FLUX(lm)	1340.72	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.6	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120.1	η down(%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-04-29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: 电源: 金永信
灯珠参数: 26-28lm/颗 单颗0.2W 6000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	%lum,lamp
5	550.4	545.6	545.1	546.8	552.0	545.9	543.8	544.7	0- 5	13.14	13.14	0.98,0.98
10	539.6	533.3	535.7	535.7	542.4	533.9	533.1	531.6	5- 10	38.66	51.80	3.86,3.86
15	522.4	518.0	526.2	521.5	526.7	519.0	522.4	515.4	10- 15	62.58	114.4	8.53,8.53
20	499.0	500.2	498.9	504.7	505.0	501.3	493.9	496.8	15- 20	83.93	198.3	14.8,14.8
25	470.5	469.4	471.5	474.9	477.4	470.6	465.3	465.5	20- 25	101.4	299.7	22.4,22.4
30	437.2	434.9	444.1	440.9	444.8	436.1	436.8	430.2	25- 30	114.7	414.4	30.9,30.9
35	399.9	399.6	404.5	405.6	407.8	400.3	396.7	394.2	30- 35	123.4	537.8	40.1,40.1
40	359.4	362.6	365.0	368.6	368.0	362.9	356.7	356.7	35- 40	127.0	664.8	49.6,49.6
45	317.1	318.6	325.4	325.1	326.5	319.4	316.7	312.8	40- 45	125.9	790.7	59,59
50	274.0	275.5	281.8	282.5	283.5	276.8	273.2	269.8	45- 50	120.4	911.1	68,68
55	230.7	233.8	238.3	241.1	240.1	234.7	229.7	228.1	50- 55	110.9	1022	76.2,76.2
60	187.7	189.8	194.8	196.1	197.1	190.5	186.2	184.3	55- 60	97.97	1120	83.5,83.5
65	144.9	147.6	153.0	153.2	154.9	147.6	144.5	142.1	60- 65	82.23	1202	89.7,89.7
70	103.2	106.9	111.2	111.8	112.5	106.4	102.9	101.5	65- 70	64.46	1267	94.5,94.5
75	63.54	67.56	69.43	72.07	71.70	67.01	61.31	62.65	70- 75	45.20	1312	97.9,97.9
80	28.10	28.01	0	31.08	34.89	27.30	0	24.37	75- 80	23.59	1336	99.6,99.6
85	7.195	0	0	0	9.499	0	0	0	80- 85	4.838	1340	100,100
90	0.2121	0	0	0	0.3073	0	0	0	85- 90	0.3765	1341	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

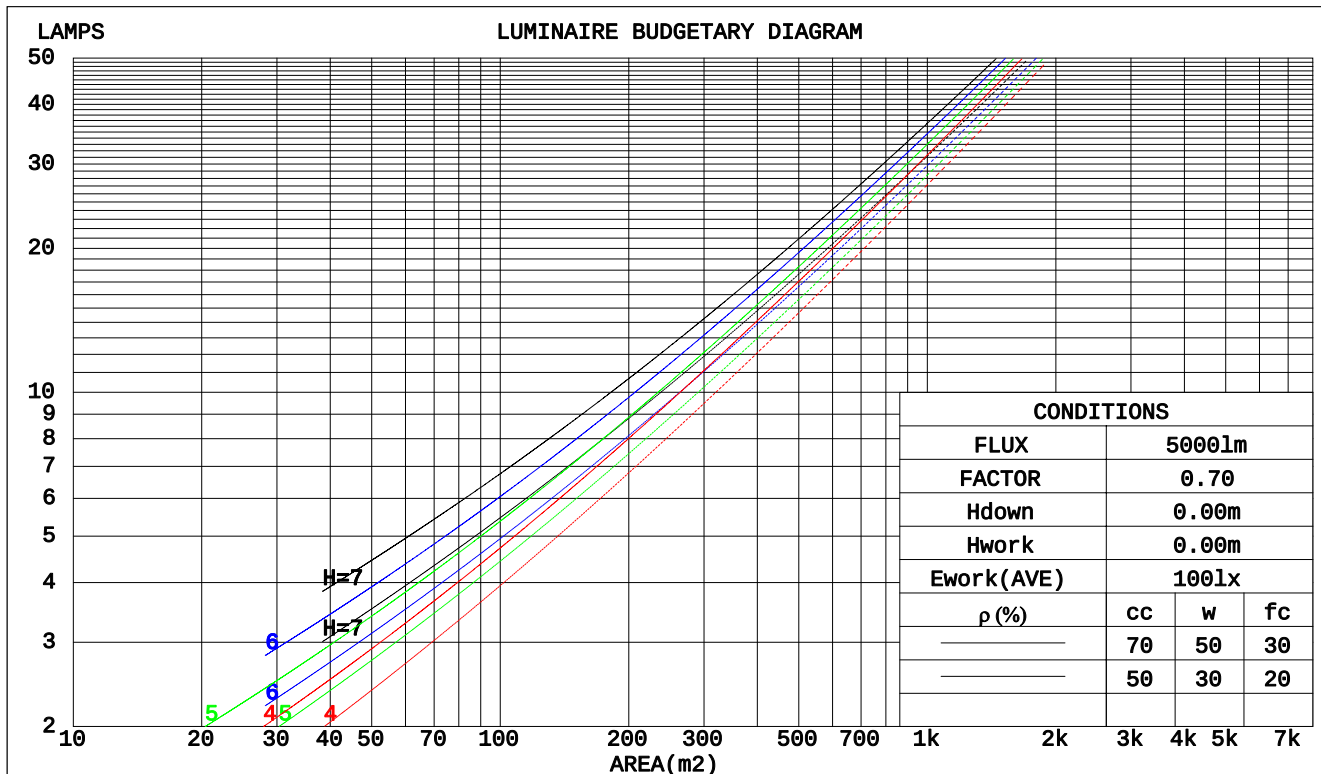
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-04-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 电源: 金永信
 灯珠参数: 26-28lm/颗 单颗0.2W 6000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.02	.98	1.03	.99	.97	.99	.96	.93	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.86	.81	.91	.85	.80	.87	.82	.78	.84	.80	.76	.81	.78	.75	.73
3.0	.82	.74	.68	.80	.73	.67	.77	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.65	.58	.72	.64	.58	.69	.62	.57	.67	.61	.56	.65	.60	.55	.53
5.0	.65	.57	.50	.64	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.49	.47
6.0	.59	.50	.44	.58	.50	.44	.56	.49	.44	.55	.48	.43	.53	.47	.43	.41
7.0	.54	.45	.39	.53	.45	.39	.51	.44	.39	.50	.43	.39	.49	.43	.38	.36
8.0	.49	.41	.35	.48	.41	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.33
9.0	.45	.37	.32	.45	.37	.32	.43	.36	.32	.42	.36	.31	.41	.36	.31	.29
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.28	.27



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2015-04-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: 电源: 金永信
 灯珠参数: 26-28lm/颗 单颗0.2W 6000K

WEC AND CCEC

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm									
NAME: 面板灯					TYPE:室内			WEIGHT:0.3	
SPEC.:LBT-PL-15A					DIM.:			SERIAL No.:	
MFR.:					SUR.:			PROTECTION ANGLE:	

ρ_{CC}	80%			70%			50%			30%			10%			0	
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.279	.159	.050	.272	.155	.049	.259	.148	.047	.247	.142	.046	.236	.137	.044		
2.0	.270	.148	.045	.264	.145	.045	.252	.140	.044	.241	.135	.042	.232	.131	.041		
3.0	.253	.135	.040	.248	.133	.040	.238	.129	.039	.228	.125	.038	.220	.122	.038		
4.0	.236	.123	.036	.231	.121	.036	.222	.118	.035	.214	.115	.035	.206	.112	.034		
5.0	.220	.112	.032	.216	.111	.032	.208	.108	.032	.200	.106	.031	.193	.103	.031		
6.0	.205	.103	.029	.201	.102	.029	.194	.100	.029	.188	.097	.029	.181	.096	.028		
7.0	.192	.095	.027	.188	.094	.027	.182	.092	.027	.176	.090	.026	.171	.089	.026		
8.0	.180	.088	.025	.177	.087	.025	.171	.085	.024	.166	.084	.024	.161	.082	.024		
9.0	.169	.082	.023	.166	.081	.023	.161	.080	.023	.156	.078	.022	.152	.077	.022		
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.073	.021	.144	.072	.021		

ρ _{CC}	80%			70%			50%			30%			10%			0
ρ _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ _{fc}	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	.178	.156	.137	.152	.134	.118	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.146	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.139	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005	
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004	
8.0	.127	.069	.029	.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	.099	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-04-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 电源: 金永信
 灯珠参数: 26-28lm/颗 单颗0.2W 6000K

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm											
NAME: 面板灯					TYPE:室内			WEIGHT:0.3			
SPEC.:LBT-PL-15A					DIM.:			SERIAL No.:			
MFR.:					SUR.:			PROTECTION 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	2H	25.5	27.0	25.8	27.2	27.4	25.7	27.2	26.0	27.4	27.6
	3H	26.7	28.0	27.0	28.3	28.5	27.0	28.3	27.3	28.5	28.8
	4H	27.1	28.3	27.4	28.6	28.8	27.4	28.7	27.7	28.9	29.2
	6H	27.2	28.4	27.5	28.7	29.0	27.4	28.6	27.7	28.9	29.1
	8H	27.2	28.4	27.6	28.6	28.9	27.3	28.5	27.7	28.8	29.1
	12H	27.2	28.3	27.5	28.6	28.9	27.3	28.4	27.6	28.7	29.0
4H	2H	26.0	27.3	26.4	27.6	27.8	26.2	27.5	26.5	27.7	28.0
	3H	27.4	28.5	27.7	28.8	29.1	27.6	28.7	28.0	29.0	29.3
	4H	27.9	28.9	28.2	29.2	29.5	28.2	29.2	28.5	29.5	29.8
	6H	28.1	29.0	28.5	29.3	29.7	28.2	29.1	28.6	29.4	29.8
	8H	28.1	28.9	28.5	29.3	29.7	28.2	29.0	28.6	29.3	29.7
	12H	28.1	28.9	28.5	29.2	29.6	28.1	28.9	28.5	29.3	29.7
8H	4H	28.0	28.9	28.4	29.2	29.6	28.3	29.1	28.7	29.5	29.9
	6H	28.4	29.0	28.8	29.4	29.9	28.4	29.1	28.8	29.5	29.9
	8H	28.4	29.0	28.9	29.4	29.9	28.3	28.9	28.8	29.4	29.8
	12H	28.4	28.9	28.9	29.4	29.9	28.3	28.8	28.8	29.3	29.7
12H	4H	28.0	28.8	28.4	29.1	29.5	28.3	29.0	28.7	29.4	29.8
	6H	28.3	28.9	28.8	29.4	29.8	28.4	29.0	28.8	29.4	29.8
	8H	28.4	28.9	28.9	29.4	29.8	28.3	28.8	28.8	29.3	29.8
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H		+ 0.2 / - 0.3					+ 0.1 / - 0.3				
2.0H		+ 0.4 / - 0.3					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 1341 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-04-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 电源: 金永信
 灯珠参数: 26-28lm/颗 单颗0.2W 6000K

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	60	49	42	58	48	42	36
0.80	70	59	52	69	59	52	68	58	52	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	81	75	89	81	75	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	78
3.00	104	98	93	102	96	92	98	93	89	81
4.00	108	103	98	105	101	97	101	98	94	86
5.00	110	106	102	108	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-04-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 电源: 金永信
 灯珠参数: 26-28lm/颗 单颗0.2W 6000K

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

790.69 lm

%lum = 59.0%

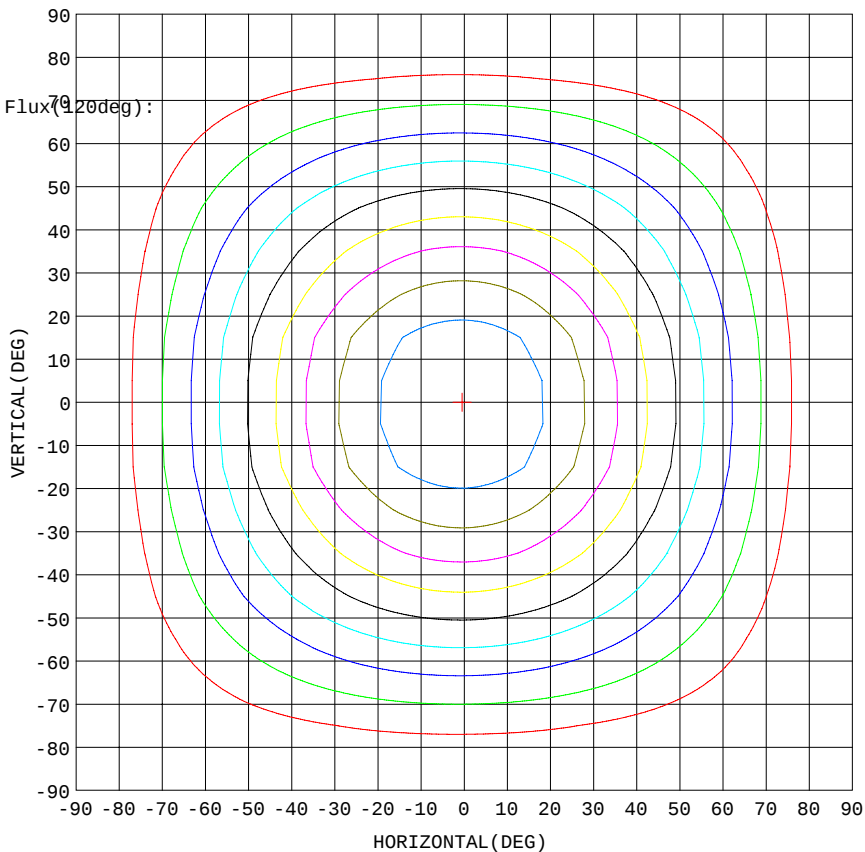
%lamp = 59.0%

Conical surface Flux(0deg):

1120 lm

%lum = 83.5%

%lamp = 83.5%



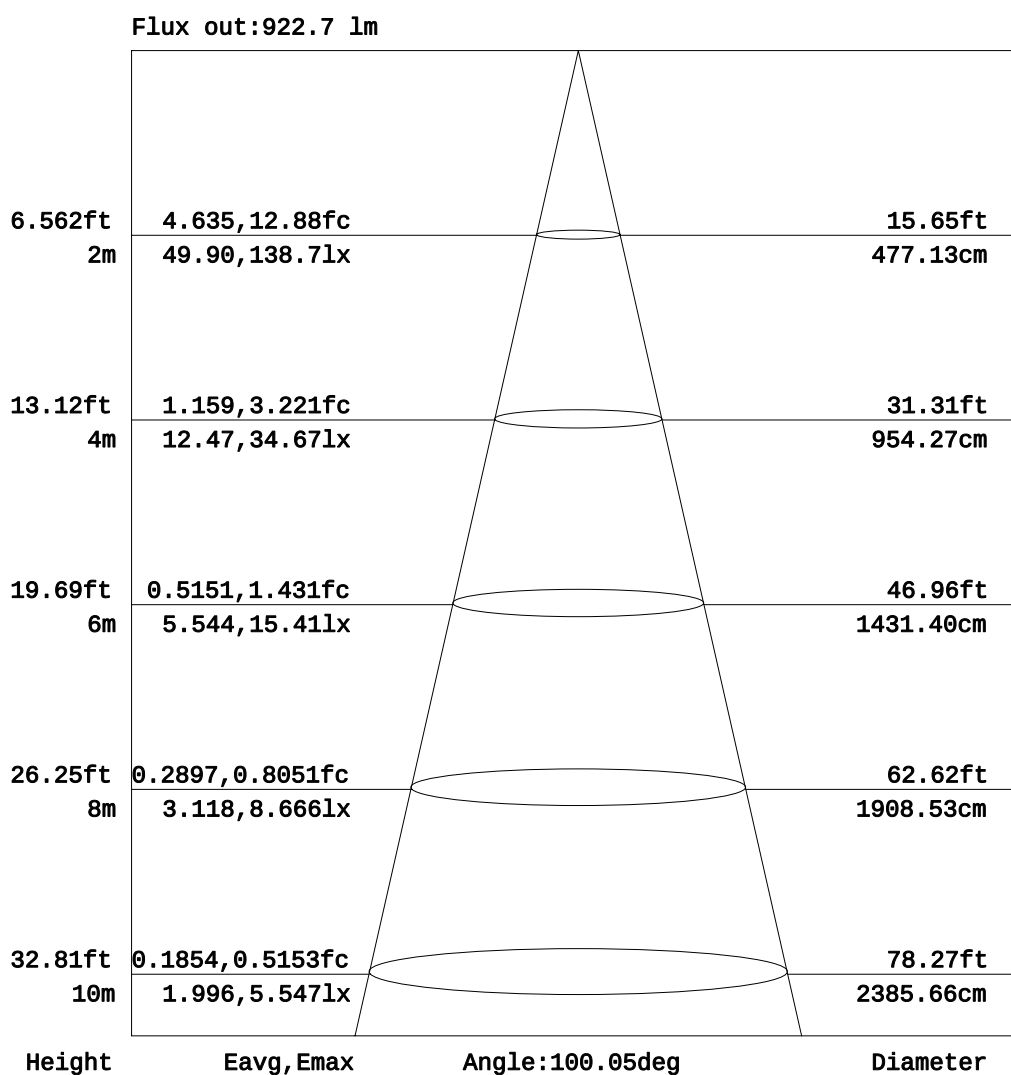
Imax:554.7(H-0.5,V0.0)
(At:C=180.0,Gamma=0.5)
UNIT: cd

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-04-29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: 电源: 金永信
灯珠参数: 26-28lm/颗 单颗0.2W 6000K

AAI Figure

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



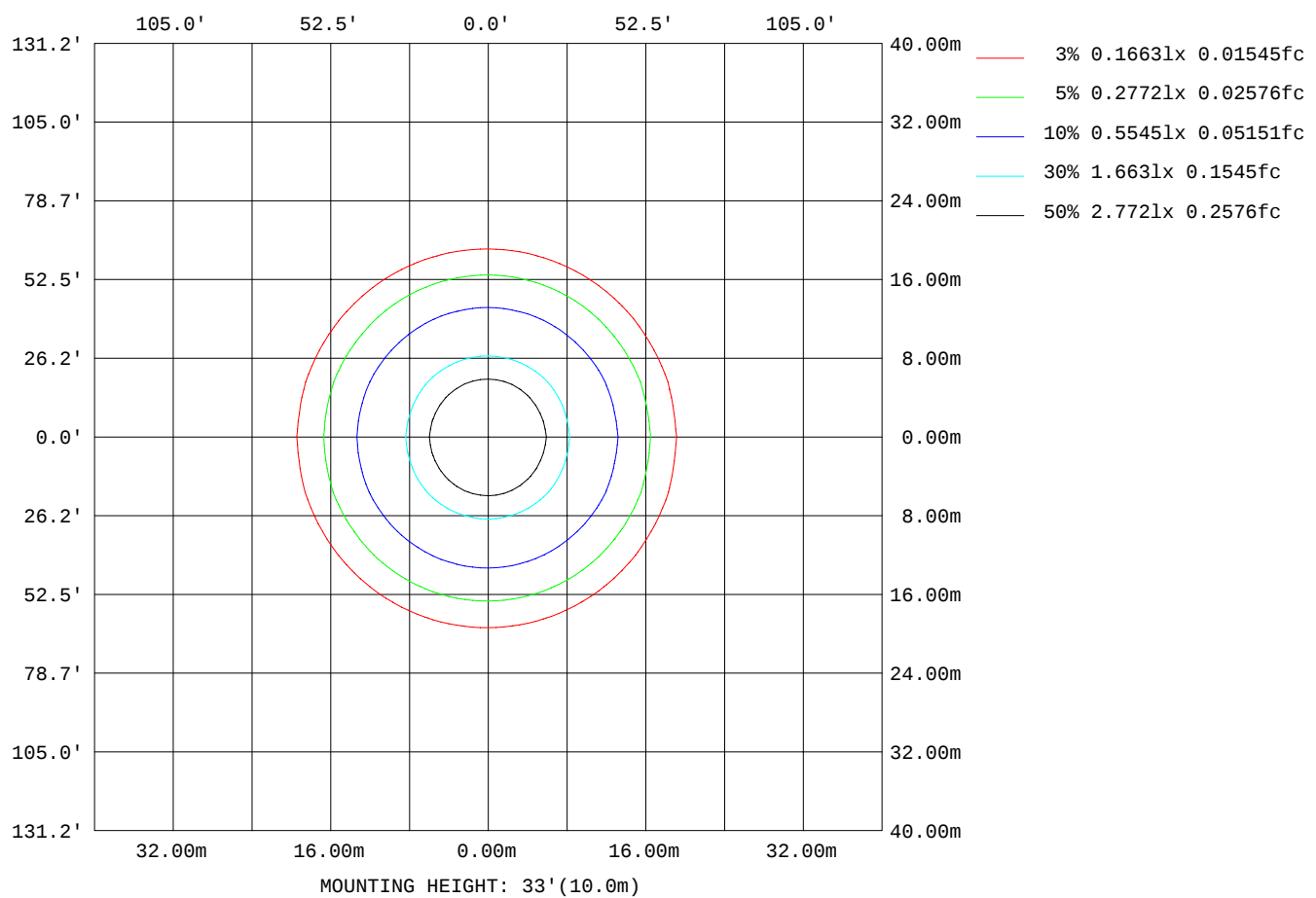
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-04-29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: 电源: 金永信
灯珠参数: 26-28lm/颗 单颗0.2W 6000K

ISOLUX DIAGRAM

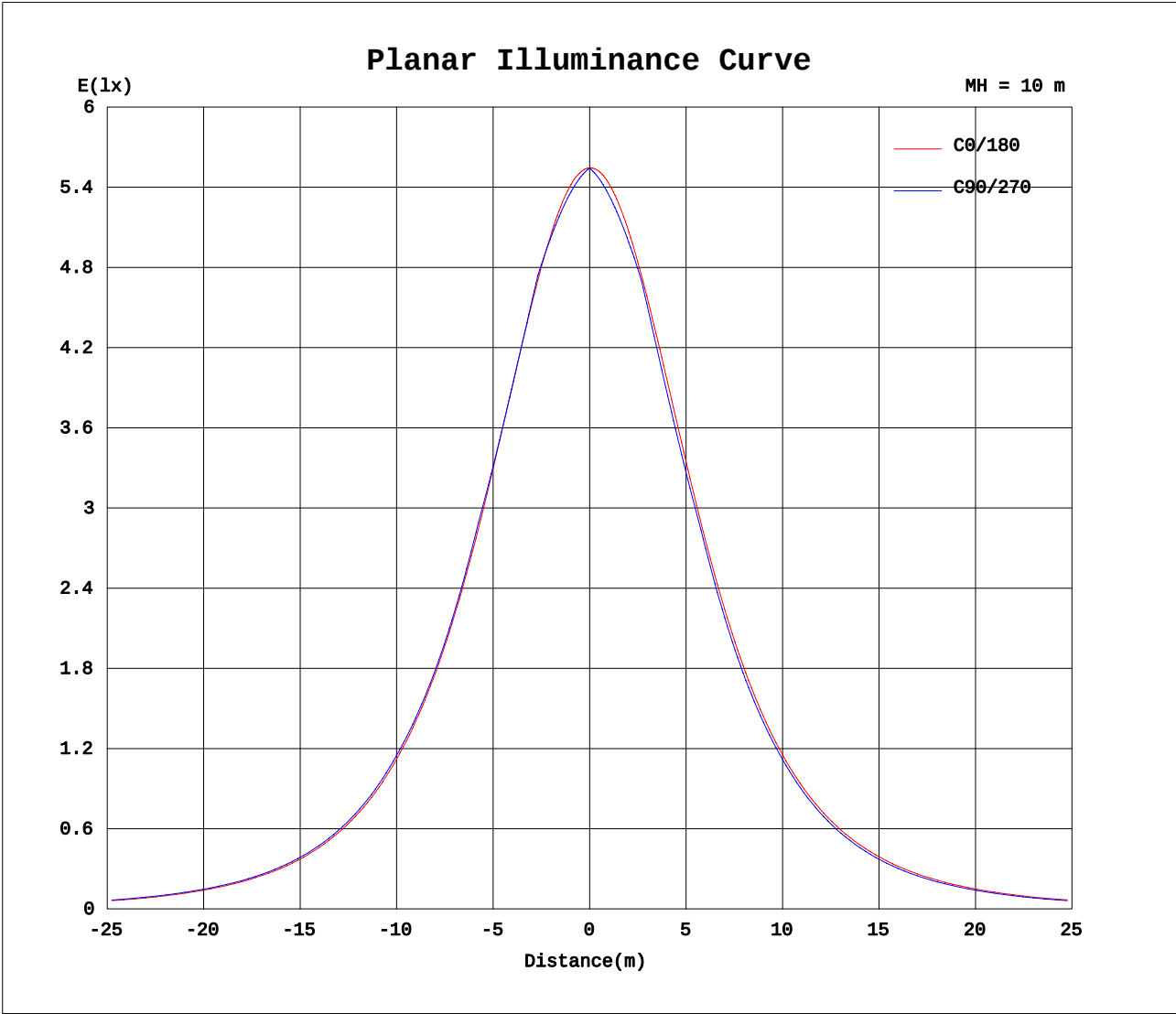
Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-04-29

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: 电源: 金永信
 灯珠参数: 26-28lm/颗 单颗0.2W 6000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-04-29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: 电源: 金永信
灯珠参数: 26-28lm/颗 单颗0.2W 6000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.0740A P:15.70W PF:0.9640 Lamp Flux:1340.72x1 lm		
NAME: 面板灯	TYPE:室内	WEIGHT:0.3
SPEC.:LBT-PL-15A	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table - - 4

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2015-04-29

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: 电源: 金永信
          灯珠参数: 26-281m/颗 单颗0.2W 6000K

```