

LED Light Bulbs

FLB-D60



Light Output Ratio:	100.0%	
Luminaire Power:	7.953 W	
SHR Nominal:	1.50	Calculated using the TM5
SHR Maximum:	1.55	fine grid method.

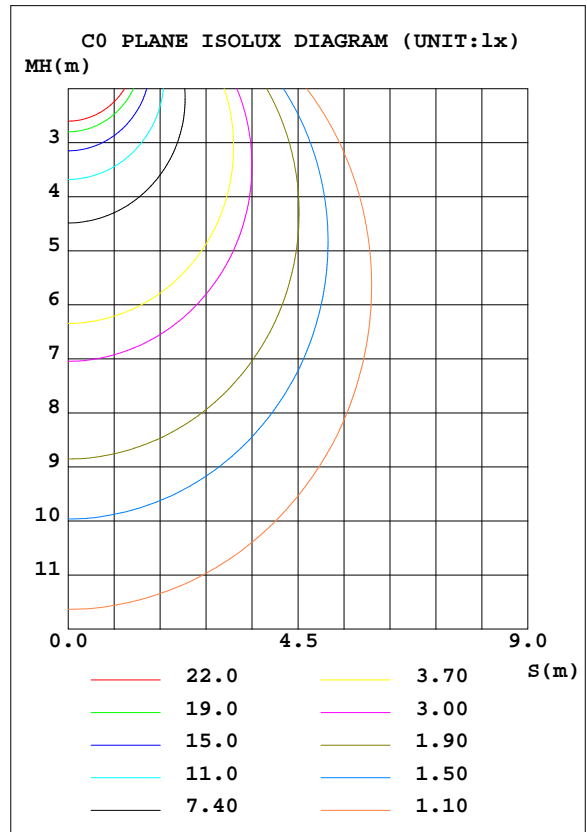
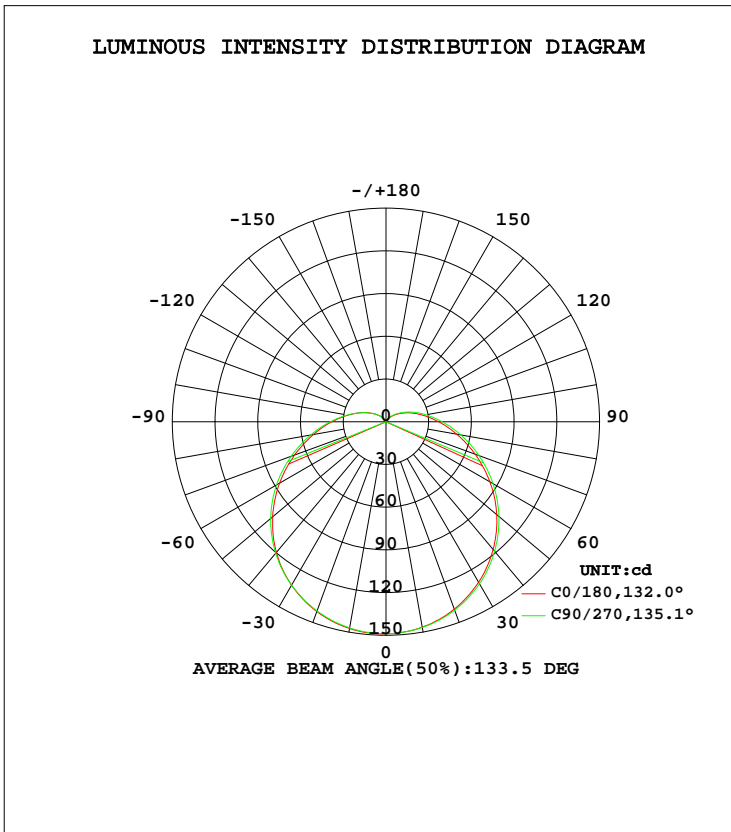
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Teddy
Test Date: 2012-02-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
Humidity: 65.0%
Test Distance: 26.000m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.9V I:0.0399A P:7.953W PF:0.9054 Lamp Flux:648.03x1 lm		
NAME: LED Light bulbs	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Fobsun Electronics Limited	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.48 lm/W			
MODEL	FLB-D60	I _{max} (cd)	149.0	S/MH(C0/180)	1.30
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	648.04	η UP, DN(C0-180)	7.1, 42.8
NOMINAL FLUX(lm)	648.03	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	6.9, 43.3
LAMPS INSIDE	1	η up(%)	14.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220.2	η down(%)	86.0	CIBSE SHR MAX	1.55



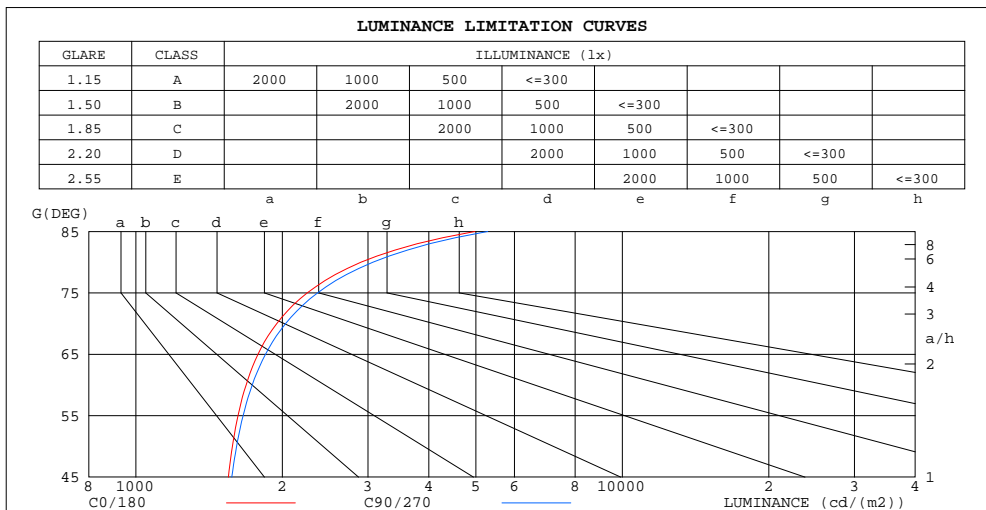
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γ Range: 0 - 180DEG
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 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	146.5	146.7	146.7	146.6	147.4	147.2	147.0	147.0	0- 10	14.11	14.11	2.18,2.18
20	140.1	140.5	140.9	140.6	141.9	141.4	141.5	141.4	10- 20	40.79	54.91	8.47,8.47
30	130.1	130.8	131.4	131.1	132.6	132.3	132.5	132.2	20- 30	63.08	118.0	18.2,18.2
40	117.1	117.9	118.7	118.3	119.7	119.7	120.5	119.8	30- 40	78.69	196.7	30.3,30.3
50	101.5	102.4	103.6	103.0	103.9	104.3	105.7	104.5	40- 50	86.14	282.8	43.6,43.6
60	84.25	85.33	86.73	85.82	86.26	86.83	88.74	87.27	50- 60	85.16	368.0	56.8,56.8
70	66.61	67.80	69.46	68.32	68.29	68.75	70.79	69.43	60- 70	76.81	444.8	68.6,68.6
80	50.40	51.62	53.34	52.14	51.82	51.92	53.75	52.69	70- 80	63.70	508.5	78.5,78.5
90	36.98	38.00	39.53	38.61	38.03	37.83	39.16	38.53	80- 90	49.12	557.6	86,86
100	26.50	27.33	28.52	27.93	27.12	26.73	27.56	27.17	90-100	35.61	593.2	91.5,91.5
110	18.35	19.00	19.90	19.56	18.68	18.29	18.66	18.46	100-110	24.29	617.5	95.3,95.3
120	11.90	12.39	13.01	12.83	12.23	11.91	12.02	11.90	110-120	15.33	632.8	97.7,97.7
130	7.076	7.390	7.842	7.739	7.461	7.178	7.165	7.120	120-130	8.736	641.6	99,99
140	3.672	3.859	4.139	4.114	3.927	3.772	3.635	3.606	130-140	4.308	645.9	99.7,99.7
150	1.394	1.539	1.696	1.700	1.467	1.390	1.275	1.260	140-150	1.632	647.5	99.9,99.9
160	0.2882	0.4007	0.4159	0.4482	0.4863	0.4377	0.4495	0.4498	150-160	0.3959	647.9	100,100
170	0.2559	0.3299	0.3037	0.3568	0.4166	0.3913	0.4955	0.4953	160-170	0.1089	648.0	100,100
180	0.3198	0.3518	0.3516	0.4154	0.3678	0.3518	0.4954	0.5272	170-180	0.0383	648.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4976	5287
80	2903	3072
75	2250	2362
70	1948	2031
65	1783	1848
60	1685	1735
55	1622	1661
50	1580	1611
45	1549	1575

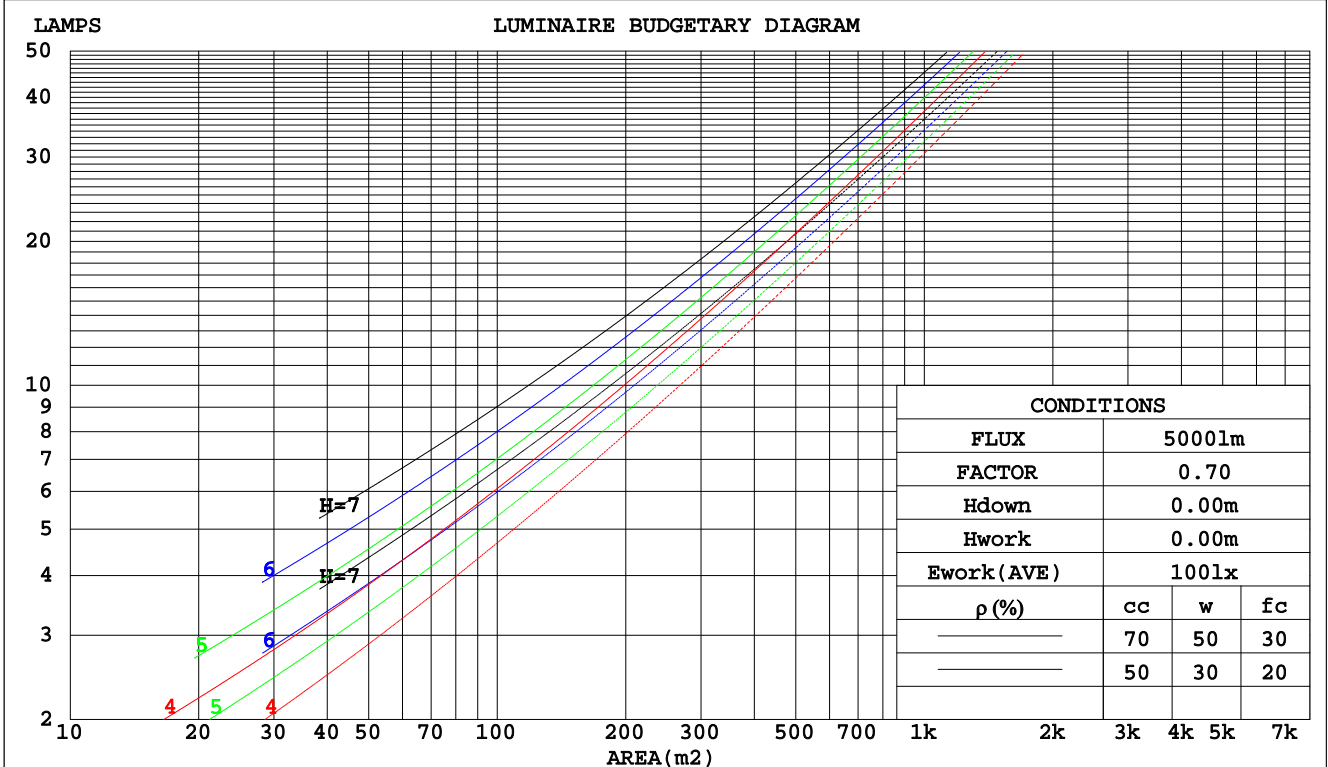
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:26.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:219.9V I:0.0399A P:7.953W PF:0.9054 Lamp Flux:648.03x1 lm		
NAME: LED Light bulbs	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Fobsun Electronics Limited	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1.0	.96	.91	.86	.93	.88	.83	.86	.82	.78	.79	.76	.73	.74	.71	.69	.66
2.0	.82	.75	.68	.79	.72	.66	.73	.67	.62	.68	.63	.59	.63	.59	.55	.52
3.0	.72	.62	.55	.69	.60	.54	.64	.57	.51	.59	.53	.48	.55	.50	.46	.43
4.0	.63	.53	.46	.60	.52	.45	.56	.49	.43	.52	.46	.41	.48	.43	.39	.36
5.0	.56	.46	.39	.54	.45	.38	.50	.42	.36	.46	.40	.35	.43	.38	.33	.31
6.0	.50	.40	.34	.48	.39	.33	.45	.37	.32	.42	.35	.30	.39	.33	.29	.26
7.0	.45	.36	.29	.44	.35	.29	.41	.33	.28	.38	.31	.27	.36	.30	.25	.23
8.0	.41	.32	.26	.40	.31	.26	.37	.30	.25	.35	.28	.24	.33	.27	.23	.20
9.0	.37	.29	.23	.36	.28	.23	.34	.27	.22	.32	.26	.21	.30	.24	.20	.18
10.0	.34	.26	.21	.33	.26	.21	.31	.25	.20	.30	.23	.19	.28	.22	.18	.16



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.388	.221	.070	.376	.215	.068	.355	.204	.065	.335	.193	.062	.317	.184	.059	
2.0	.336	.184	.057	.326	.179	.055	.306	.170	.053	.288	.162	.051	.272	.154	.048	
3.0	.299	.159	.048	.289	.155	.047	.272	.147	.045	.256	.140	.043	.240	.133	.041	
4.0	.269	.140	.041	.260	.136	.040	.245	.130	.039	.230	.123	.037	.216	.117	.036	
5.0	.244	.124	.036	.237	.122	.035	.222	.116	.034	.209	.110	.033	.197	.105	.032	
6.0	.224	.112	.032	.217	.110	.032	.204	.104	.030	.192	.100	.029	.180	.095	.028	
7.0	.206	.102	.029	.200	.100	.028	.188	.095	.027	.177	.091	.026	.167	.087	.025	
8.0	.191	.093	.026	.186	.091	.026	.175	.087	.025	.165	.083	.024	.155	.080	.023	
9.0	.178	.086	.024	.173	.084	.024	.163	.081	.023	.154	.077	.022	.145	.074	.021	
10.0	.167	.080	.022	.162	.078	.022	.153	.075	.021	.144	.072	.020	.136	.068	.020	

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	.297	.297	.297	.254	.254	.254	.173	.173	.173	.099	.099	.099	.032	.032	.032	
1.0	.293	.263	.235	.251	.225	.203	.171	.155	.140	.099	.090	.081	.032	.029	.026	
2.0	.286	.240	.201	.245	.206	.173	.168	.143	.121	.097	.083	.071	.031	.027	.023	
3.0	.279	.223	.179	.239	.192	.155	.164	.134	.109	.095	.078	.064	.030	.025	.021	
4.0	.271	.210	.164	.232	.182	.143	.160	.127	.101	.092	.074	.059	.030	.024	.020	
5.0	.263	.201	.154	.226	.173	.134	.156	.121	.095	.090	.071	.056	.029	.023	.019	
6.0	.255	.193	.147	.220	.167	.128	.151	.117	.091	.088	.069	.054	.028	.022	.018	
7.0	.248	.186	.142	.214	.161	.124	.148	.113	.088	.086	.067	.052	.028	.022	.017	
8.0	.241	.180	.138	.208	.156	.120	.144	.110	.085	.084	.065	.051	.027	.021	.017	
9.0	.235	.175	.135	.203	.152	.118	.140	.107	.084	.082	.063	.050	.026	.021	.017	
10.0	.229	.171	.133	.198	.149	.116	.137	.105	.082	.080	.062	.049	.026	.020	.016	

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:219.9V I:0.0399A P:7.953W PF:0.9054 Lamp Flux:648.03x1 lm										
NAME: LED Light bulbs					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:		
MFR.: Fobsun Electronics Limited					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	13.6	15.1	14.1	15.5	16.0	13.8	15.2	14.2	15.7	16.1
3H	15.9	17.2	16.3	17.7	18.2	16.0	17.4	16.5	17.8	18.4
4H	17.0	18.3	17.5	18.8	19.3	17.2	18.5	17.8	19.0	19.5
6H	18.3	19.5	18.8	20.0	20.6	18.5	19.7	19.1	20.3	20.8
8H	19.0	20.1	19.5	20.7	21.3	19.3	20.4	19.8	20.9	21.5
12H	19.8	20.9	20.3	21.4	22.0	20.1	21.2	20.6	21.7	22.3
4H 2H	14.4	15.7	14.9	16.2	16.7	14.5	15.8	15.0	16.3	16.8
3H	16.8	17.9	17.4	18.5	19.1	17.0	18.1	17.5	18.6	19.2
4H	18.2	19.2	18.7	19.8	20.4	18.4	19.4	18.9	19.9	20.6
6H	19.6	20.5	20.2	21.1	21.8	19.9	20.8	20.5	21.4	22.0
8H	20.4	21.3	21.0	21.9	22.6	20.7	21.5	21.3	22.1	22.8
12H	21.3	22.1	22.0	22.8	23.5	21.6	22.4	22.3	23.0	23.7
8H 4H	18.7	19.6	19.3	20.2	20.9	18.9	19.7	19.5	20.3	21.0
6H	20.4	21.2	21.1	21.8	22.5	20.6	21.4	21.3	22.0	22.7
8H	21.4	22.1	22.1	22.7	23.5	21.7	22.3	22.3	23.0	23.7
12H	22.6	23.2	23.3	23.8	24.6	22.8	23.4	23.5	24.1	24.9
12H 4H	18.8	19.6	19.5	20.3	21.0	19.0	19.8	19.6	20.4	21.1
6H	20.7	21.3	21.3	22.0	22.7	20.9	21.5	21.5	22.2	22.9
8H	21.8	22.4	22.5	23.0	23.8	22.0	22.6	22.7	23.2	24.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 648.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.5)

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UTILIZATION FACTORS TABLE

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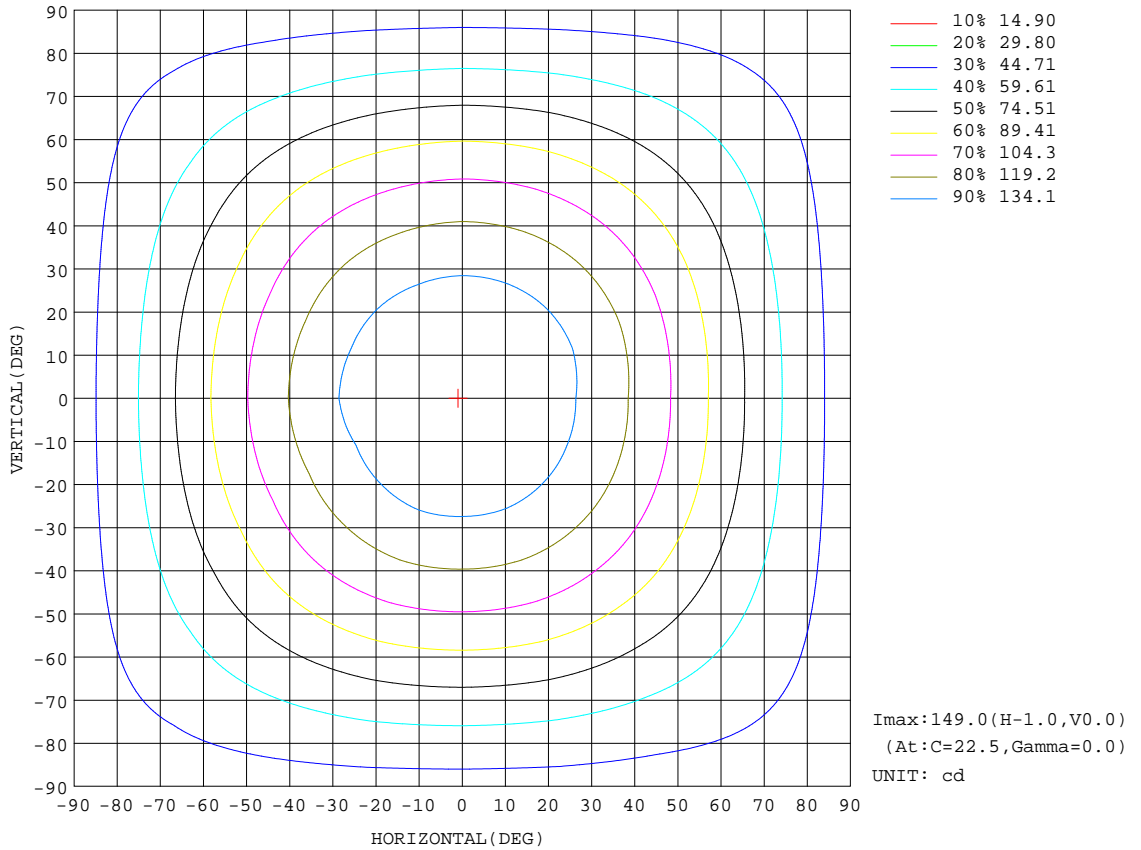
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	36	29	48	36	29	46	35	29	22
0.80	58	45	37	57	44	37	54	43	36	28
1.00	66	53	45	64	52	44	61	53	43	35
1.25	73	60	52	71	59	51	67	57	50	40
1.50	78	66	57	75	64	56	71	62	55	45
2.00	85	74	66	82	72	65	77	69	62	51
2.50	90	79	71	87	77	70	81	73	67	55
3.00	93	84	77	90	82	75	84	77	71	59
4.00	98	90	84	94	87	81	88	82	77	64
5.00	101	94	88	97	91	86	90	85	81	67
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

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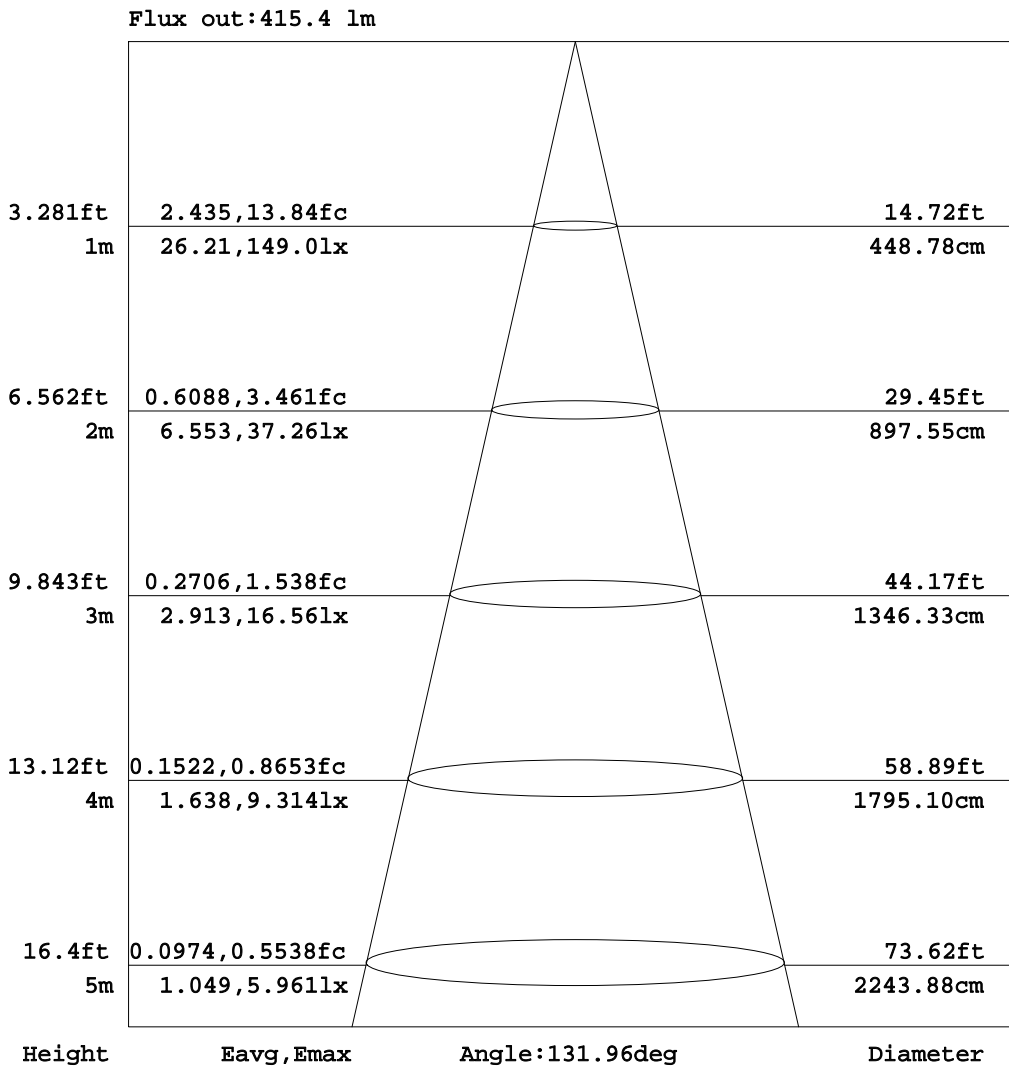


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AAI Figure

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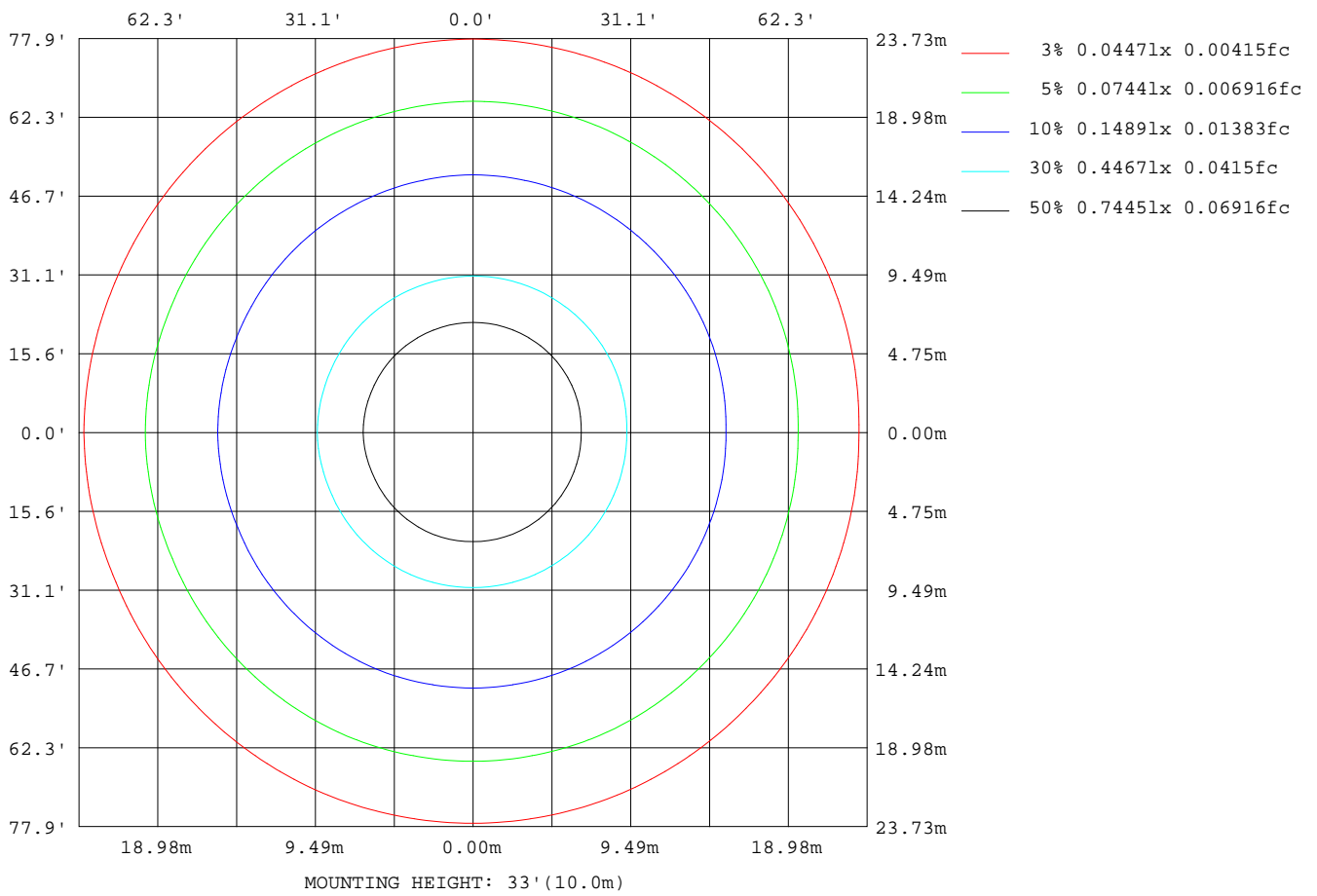
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

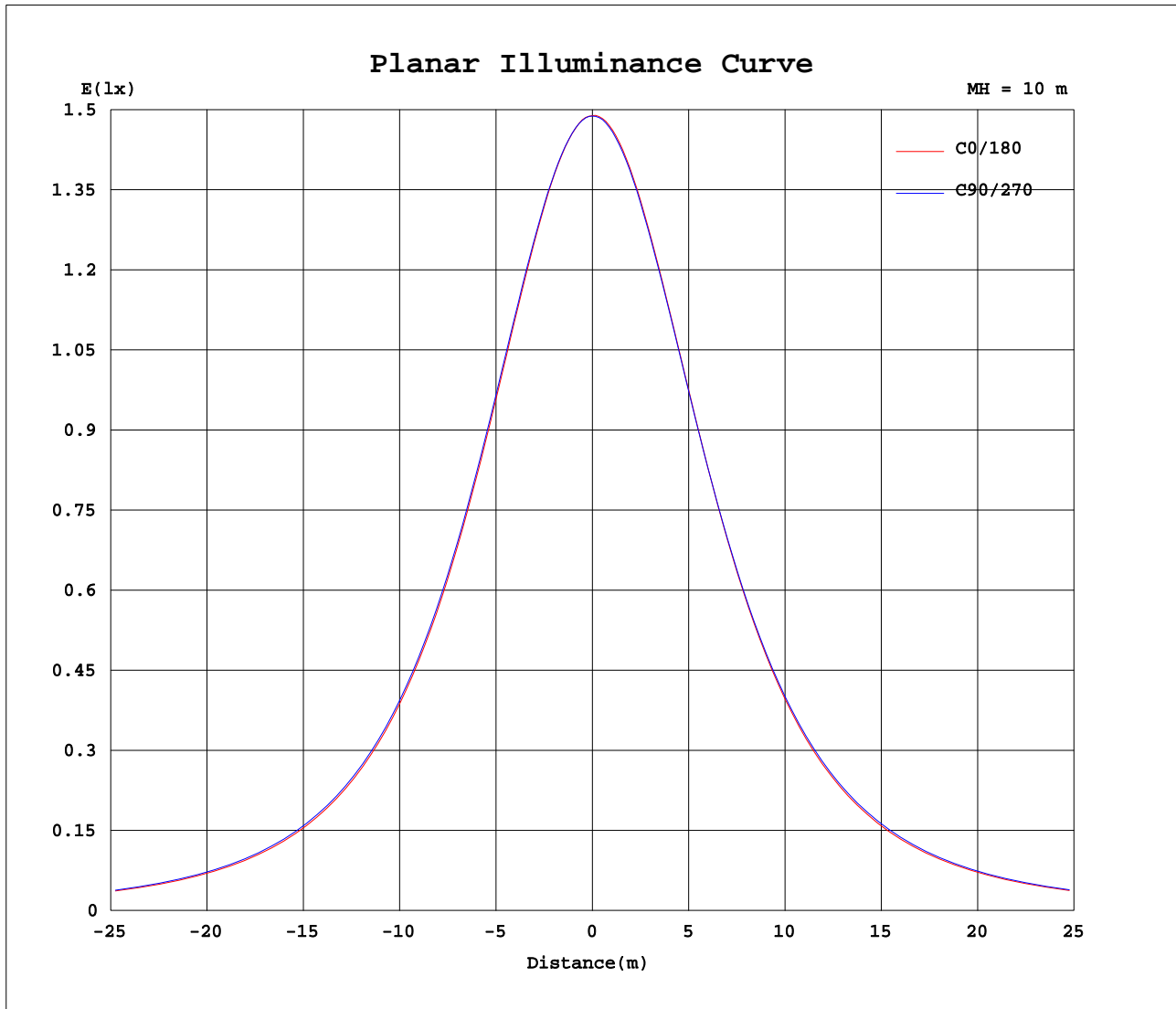
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.0399A P:7.953W PF:0.9054 Lamp Flux:648.03x1 lm		
NAME: LED Light bulbs	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Fobsun Electronics Limited	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338			
0	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149			
5	148	148	148	148	148	148	148	148	149	149	149	148	148	148	148	148			
10	146	147	147	147	147	147	147	146	147	147	147	147	147	147	147	147			
15	144	144	144	144	144	144	144	144	145	145	145	145	145	145	145	145			
20	140	140	141	141	141	141	141	140	142	141	141	141	141	141	141	141			
25	135	136	136	136	137	137	136	136	138	137	137	137	137	137	137	137			
30	130	130	131	131	131	132	131	131	133	132	132	132	132	132	132	132			
35	124	124	125	125	125	126	125	125	127	126	126	127	127	127	126	126			
40	117	117	118	119	119	119	118	118	120	119	120	120	121	120	120	119			
45	110	110	110	111	111	112	111	110	112	112	112	113	113	113	112	112			
50	102	102	102	103	104	104	103	102	104	103	104	105	106	105	105	103			
55	93.0	93.5	94.0	95.1	95.3	95.4	94.5	93.8	95.3	94.8	95.7	96.6	97.5	97.1	96.1	94.9			
60	84.3	84.8	85.3	86.5	86.7	86.7	85.8	84.9	86.3	85.9	86.8	87.8	88.7	88.4	87.3	86.1			
65	75.3	75.9	76.5	77.8	78.1	78.0	77.0	76.1	77.2	76.8	77.8	78.9	79.8	79.5	78.3	77.0			
70	66.6	67.2	67.8	69.1	69.5	69.4	68.3	67.3	68.3	67.8	68.8	69.9	70.8	70.5	69.4	68.1			
75	58.2	58.9	59.5	60.8	61.1	61.1	60.0	58.9	59.7	59.3	60.1	61.3	62.1	61.8	60.8	59.5			
80	50.4	51.1	51.6	53.0	53.3	53.2	52.1	51.1	51.8	51.2	51.9	53.1	53.8	53.5	52.7	51.5			
85	43.4	44.0	44.4	45.7	46.1	45.9	45.0	44.0	44.6	44.0	44.5	45.6	46.1	45.9	45.2	44.1			
90	37.0	37.6	38.0	39.2	39.5	39.4	38.6	37.6	38.0	37.5	37.8	38.7	39.2	38.9	38.5	37.6			
95	31.4	32.0	32.3	33.5	33.7	33.6	33.0	32.0	32.2	31.8	31.9	32.6	33.0	32.8	32.5	31.7			
100	26.5	27.1	27.3	28.3	28.5	28.5	27.9	27.1	27.1	26.7	26.7	27.3	27.6	27.3	27.2	26.6			
105	22.2	22.7	22.9	23.8	23.9	24.0	23.5	22.8	22.6	22.2	22.2	22.5	22.8	22.6	22.5	22.0			
110	18.3	18.8	19.0	19.8	19.9	19.9	19.6	19.0	18.7	18.2	18.3	18.5	18.7	18.5	18.5	18.1			
115	14.9	15.3	15.5	16.1	16.2	16.3	15.9	15.5	15.2	14.8	14.9	14.9	15.1	14.9	14.9	14.7			
120	11.9	12.2	12.4	12.9	13.0	13.1	12.8	12.4	12.2	11.9	11.9	11.9	12.0	11.9	11.9	11.8			
125	9.30	9.59	9.70	10.1	10.2	10.3	10.1	9.73	9.65	9.36	9.35	9.33	9.37	9.24	9.32	9.28			
130	7.08	7.35	7.39	7.76	7.84	7.96	7.74	7.53	7.46	7.20	7.18	7.07	7.17	7.04	7.12	7.10			
135	5.20	5.43	5.45	5.78	5.81	5.95	5.76	5.60	5.57	5.31	5.37	5.23	5.30	5.14	5.25	5.23			
140	3.67	3.83	3.86	4.07	4.14	4.25	4.11	3.96	3.93	3.76	3.77	3.66	3.64	3.57	3.61	3.69			
145	2.39	2.48	2.55	2.65	2.78	2.79	2.77	2.57	2.52	2.45	2.41	2.37	2.26	2.26	2.26	2.38			
150	1.39	1.42	1.54	1.55	1.70	1.65	1.70	1.50	1.47	1.47	1.39	1.39	1.27	1.34	1.26	1.41			
155	0.69	0.67	0.82	0.75	0.91	0.78	0.91	0.70	0.77	0.83	0.69	0.77	0.62	0.75	0.62	0.77			
160	0.29	0.41	0.40	0.44	0.42	0.37	0.45	0.42	0.49	0.45	0.44	0.40	0.45	0.40	0.45	0.42			
165	0.26	0.38	0.32	0.40	0.30	0.40	0.34	0.37	0.45	0.36	0.40	0.37	0.43	0.38	0.45	0.40			
170	0.26	0.39	0.33	0.45	0.30	0.45	0.36	0.46	0.42	0.36	0.39	0.37	0.50	0.38	0.50	0.40			
175	0.30	0.40	0.37	0.47	0.34	0.46	0.37	0.48	0.38	0.35	0.39	0.37	0.53	0.38	0.53	0.40			
180	0.32	0.35	0.35	0.42	0.35	0.42	0.42	0.48	0.37	0.35	0.35	0.37	0.50	0.40	0.53	0.42			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Teddy
 Test Date:2012-02-19

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity:65.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: