

LED Plug Light

FPL-G23



Light Output Ratio:	100.0%	
Luminaire Power:	8.4 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

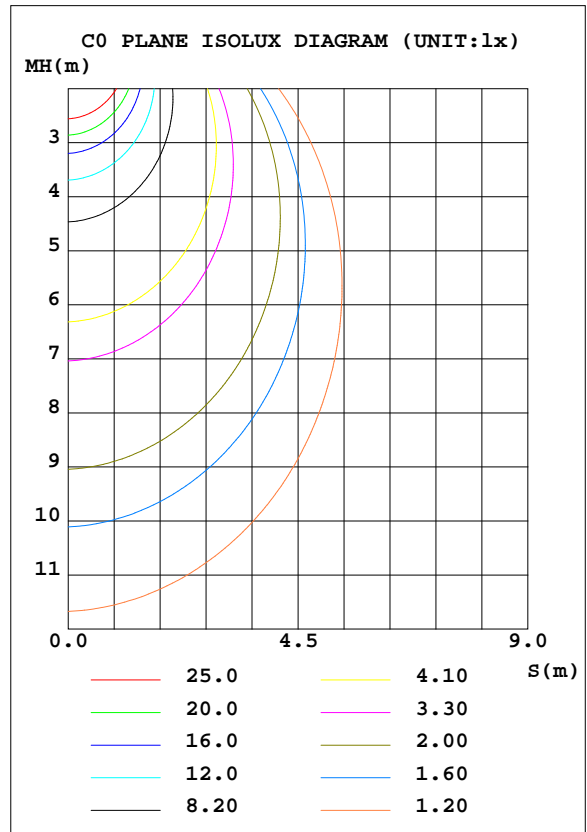
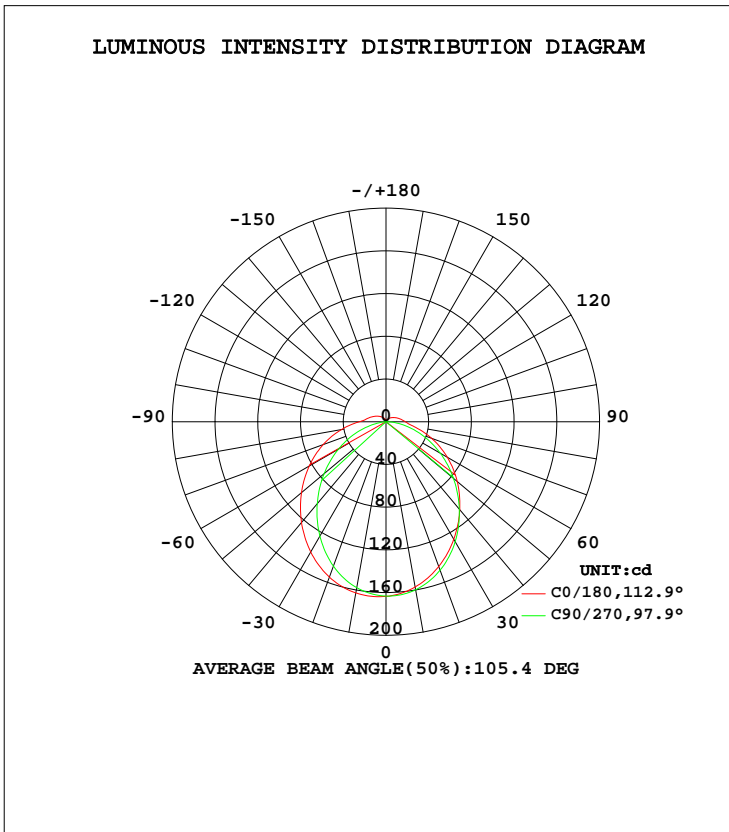
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Teddy
Test Date: 2012-02-19

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:220.3V I:0.0415A P:8.400W PF:0.9184 Lamp Flux:486.72x1 lm		
NAME: LED Plug Light	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Fobsun Electronics Limited	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 57.94 lm/W
MODEL	FPL-G23	I _{max} (cd)	164.1	S/MH(C0/180)	1.16	
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.19	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	486.72	η UP, DN(C0-180)	3.6, 46.9	
NOMINAL FLUX(lm)	486.72	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.6, 45.8	
LAMPS INSIDE	1	η up(%)	7.3	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	220.3	η down(%)	92.7	CIBSE SHR MAX	1.35	



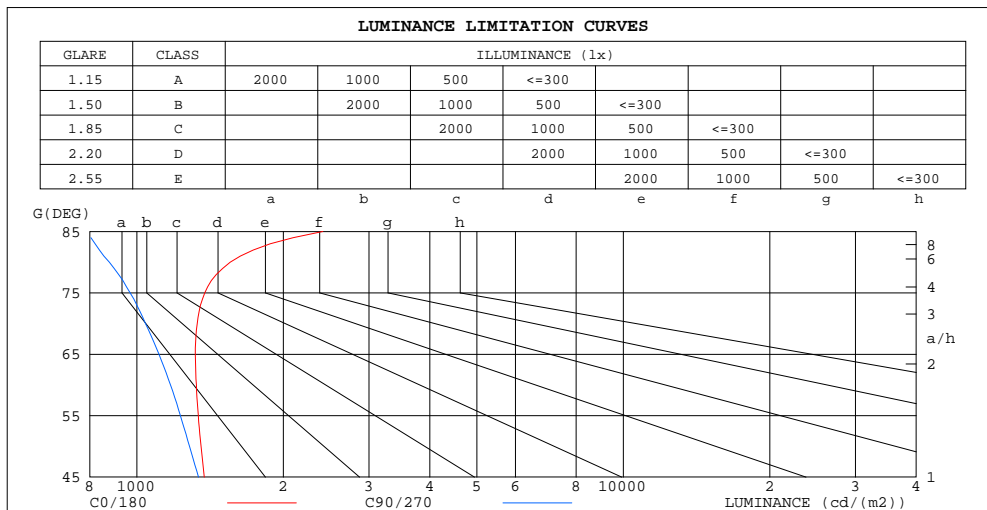
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 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	157.1	158.2	159.8	161.8	162.7	160.4	157.8	156.7	0- 10	15.40	15.40	3.16,3.16
20	144.3	145.7	148.0	152.7	154.9	149.8	144.0	143.1	10- 20	43.52	58.92	12.1,12.1
30	127.0	127.5	129.7	136.9	140.9	132.7	123.8	124.4	20- 30	64.31	123.2	25.3,25.3
40	107.5	106.0	106.8	116.9	123.1	111.9	100.2	102.9	30- 40	75.19	198.4	40.8,40.8
50	87.12	83.47	82.46	95.28	103.3	89.76	75.66	80.76	40- 50	75.97	274.4	56.4,56.4
60	66.28	61.26	58.64	73.53	83.04	67.66	51.53	58.89	50- 60	68.18	342.6	70.4,70.4
70	45.51	40.13	35.64	52.54	62.55	46.50	28.81	37.81	60- 70	53.87	396.4	81.5,81.5
80	27.01	21.56	15.24	33.11	42.43	27.17	8.471	19.58	70- 80	35.78	432.2	88.8,88.8
90	18.23	11.16	1.423	17.42	25.12	13.21	0.0158	11.93	80- 90	19.17	451.4	92.7,92.7
100	14.09	8.076	0.6970	12.01	17.80	9.695	0.1111	8.963	90-100	11.43	462.8	95.1,95.1
110	10.78	6.021	0.6970	9.192	13.87	7.469	0.1743	6.683	100-110	8.381	471.2	96.8,96.8
120	8.082	4.582	0.7287	7.116	10.61	5.765	0.2693	5.033	110-120	6.041	477.2	98.1,98.1
130	5.913	3.400	0.7446	5.513	7.931	4.469	0.3486	3.690	120-130	4.159	481.4	98.9,98.9
140	4.191	2.354	0.7446	4.184	5.774	3.363	0.4121	2.359	130-140	2.692	484.1	99.5,99.5
150	2.128	1.391	0.7296	2.994	3.953	2.463	0.4753	1.267	140-150	1.553	485.6	99.8,99.8
160	1.229	0.7270	0.5866	1.982	2.409	1.673	0.4911	0.7125	150-160	0.7390	486.4	99.9,99.9
170	0.5357	0.4898	0.5861	1.093	1.289	0.7422	0.5386	0.5068	160-170	0.2791	486.7	100,100
180	0.4568	0.4740	0.5545	0.5544	0.4095	0.4582	0.5386	0.5544	170-180	0.0589	486.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2412	788
80	1556	878
75	1379	968
70	1331	1042
65	1319	1110
60	1326	1173
55	1338	1229
50	1355	1283
45	1376	1338

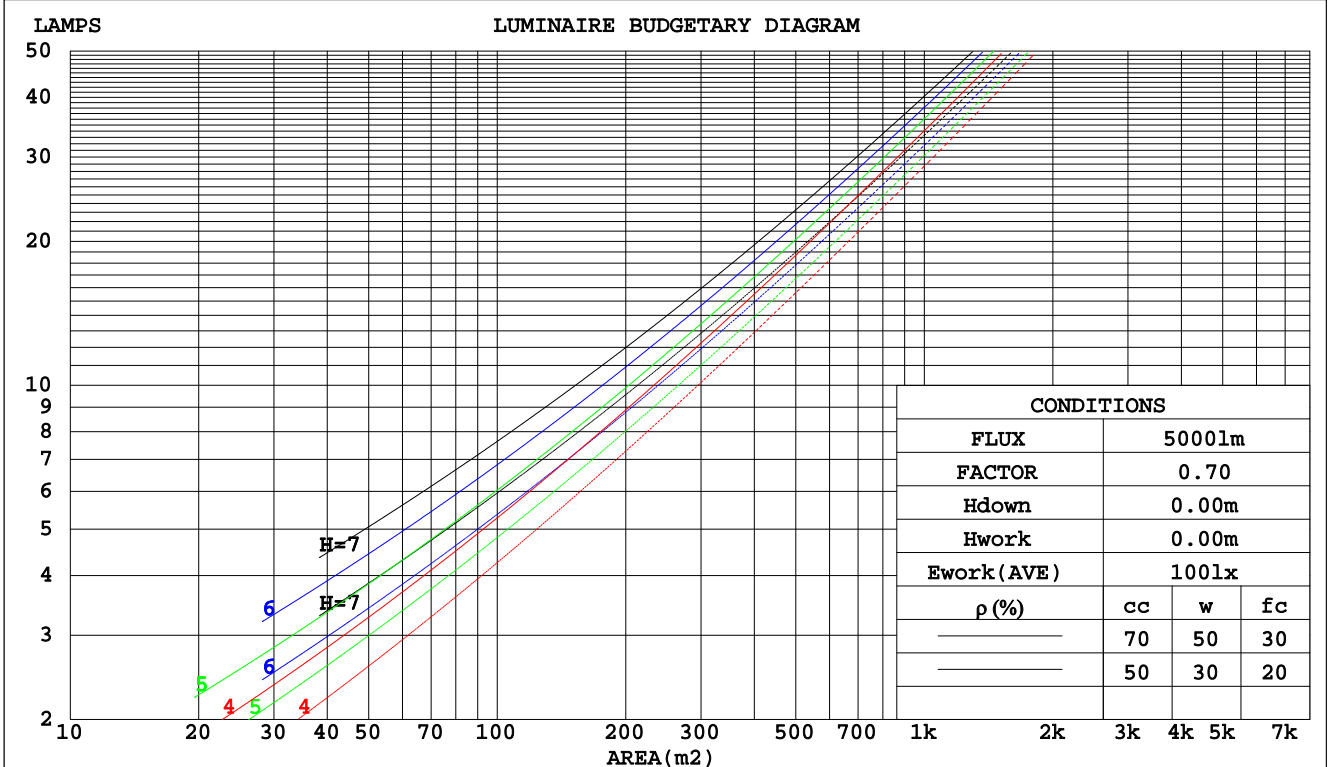
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.266
Humidity:65.0%
Test Distance:26.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.0415A P:8.400W PF:0.9184 Lamp Flux:486.72x1 lm		
NAME: LED Plug Light	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Fobsun Electronics Limited	SUR.:	PROTECTION ANGLE:

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						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.93
1.0	1.01	.96	.92	.98	.94	.90	.92	.89	.86	.87	.85	.82	.83	.80	.78	.76
2.0	.88	.81	.75	.85	.79	.73	.81	.75	.70	.76	.72	.68	.72	.68	.65	.63
3.0	.77	.69	.62	.75	.67	.61	.71	.64	.59	.67	.62	.57	.64	.59	.55	.53
4.0	.68	.59	.53	.66	.58	.52	.63	.56	.50	.60	.54	.49	.57	.52	.47	.45
5.0	.61	.52	.45	.59	.51	.45	.56	.49	.43	.54	.47	.42	.51	.46	.41	.39
6.0	.55	.46	.40	.54	.45	.39	.51	.44	.38	.49	.42	.37	.46	.41	.36	.34
7.0	.50	.41	.35	.49	.40	.35	.46	.39	.34	.44	.38	.33	.42	.37	.32	.30
8.0	.45	.37	.31	.44	.36	.31	.43	.35	.30	.41	.34	.30	.39	.33	.29	.27
9.0	.42	.34	.28	.41	.33	.28	.39	.32	.27	.38	.31	.27	.36	.30	.26	.24
10.0	.39	.31	.25	.38	.30	.25	.36	.29	.25	.35	.29	.24	.34	.28	.24	.22



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WEC AND CCEC

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DIM.:					SPEC.:			SERIAL No.:	
MFR.: Fobsun Electronics Limited					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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.331	.188	.060	.321	.183	.058	.304	.174	.056	.288	.166	.053	.273	.158	.051	
2.0	.300	.165	.050	.292	.161	.050	.276	.154	.048	.262	.147	.046	.249	.141	.044	
3.0	.274	.146	.044	.266	.143	.043	.252	.137	.042	.239	.131	.040	.227	.126	.039	
4.0	.250	.130	.038	.244	.128	.038	.231	.123	.037	.220	.118	.036	.209	.114	.035	
5.0	.230	.117	.034	.224	.115	.034	.213	.111	.033	.203	.107	.032	.193	.103	.031	
6.0	.213	.107	.031	.208	.105	.030	.197	.101	.029	.188	.098	.029	.179	.094	.028	
7.0	.198	.098	.028	.193	.096	.027	.184	.093	.027	.175	.090	.026	.167	.087	.025	
8.0	.184	.090	.025	.180	.089	.025	.172	.086	.024	.164	.083	.024	.156	.080	.023	
9.0	.173	.083	.023	.169	.082	.023	.161	.080	.023	.154	.077	.022	.147	.075	.022	
10.0	.162	.078	.022	.158	.077	.021	.151	.074	.021	.145	.072	.020	.139	.070	.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	.246	.246	.246	.210	.210	.210	.143	.143	.143	.082	.082	.082	.026	.026	.026	
1.0	.238	.212	.188	.203	.182	.162	.139	.125	.112	.080	.072	.065	.026	.023	.021	
2.0	.230	.188	.153	.197	.162	.132	.135	.112	.092	.078	.065	.054	.025	.021	.018	
3.0	.222	.171	.130	.190	.147	.113	.130	.102	.079	.075	.060	.047	.024	.019	.015	
4.0	.214	.158	.115	.184	.136	.100	.126	.095	.070	.073	.056	.042	.023	.018	.014	
5.0	.206	.147	.104	.177	.128	.091	.122	.089	.064	.071	.052	.038	.023	.017	.012	
6.0	.199	.139	.096	.171	.121	.084	.118	.084	.059	.068	.050	.035	.022	.016	.012	
7.0	.192	.132	.091	.165	.115	.079	.114	.080	.056	.066	.047	.033	.021	.016	.011	
8.0	.186	.127	.086	.160	.110	.075	.111	.077	.053	.064	.046	.032	.021	.015	.011	
9.0	.180	.122	.083	.155	.106	.072	.107	.074	.051	.062	.044	.031	.020	.014	.010	
10.0	.174	.118	.080	.150	.102	.070	.104	.072	.050	.061	.042	.030	.020	.014	.010	

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

Uncorrected UGR Table

Test:U:220.3V I:0.0415A P:8.400W PF:0.9184 Lamp Flux:486.72x1 lm										
NAME: LED Plug Light					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	13.2	14.7	13.6	15.0	15.3	12.7	14.1	13.1	14.5	14.8
3H	15.0	16.3	15.4	16.7	17.1	14.1	15.4	14.5	15.8	16.2
4H	15.8	17.1	16.2	17.4	17.9	14.7	15.9	15.1	16.3	16.7
6H	16.6	17.8	17.0	18.2	18.6	15.1	16.3	15.5	16.7	17.1
8H	17.0	18.1	17.5	18.6	19.0	15.2	16.4	15.7	16.8	17.2
12H	17.5	18.6	17.9	19.0	19.5	15.3	16.4	15.8	16.8	17.3
4H 2H	13.8	15.0	14.2	15.4	15.8	13.3	14.6	13.8	15.0	15.4
3H	15.7	16.8	16.2	17.2	17.7	14.9	16.0	15.4	16.4	16.9
4H	16.7	17.7	17.2	18.2	18.6	15.6	16.6	16.1	17.1	17.6
6H	17.7	18.6	18.2	19.1	19.6	16.2	17.1	16.7	17.5	18.1
8H	18.2	19.0	18.7	19.5	20.1	16.4	17.2	16.9	17.7	18.2
12H	18.8	19.5	19.3	20.1	20.6	16.5	17.3	17.0	17.8	18.3
8H 4H	17.0	17.8	17.5	18.3	18.8	16.0	16.8	16.5	17.3	17.9
6H	18.2	18.9	18.7	19.4	20.0	16.7	17.4	17.3	18.0	18.6
8H	18.8	19.4	19.4	20.0	20.6	17.0	17.7	17.6	18.2	18.8
12H	19.6	20.2	20.2	20.7	21.4	17.3	17.8	17.9	18.4	19.0
12H 4H	17.0	17.7	17.5	18.2	18.8	16.1	16.8	16.6	17.4	17.9
6H	18.2	18.8	18.8	19.4	20.0	16.9	17.5	17.5	18.1	18.7
8H	19.0	19.5	19.6	20.1	20.7	17.3	17.8	17.9	18.4	19.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.2				

CIE Pub.117 Corrected 486.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.5)

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UTILIZATION FACTORS TABLE

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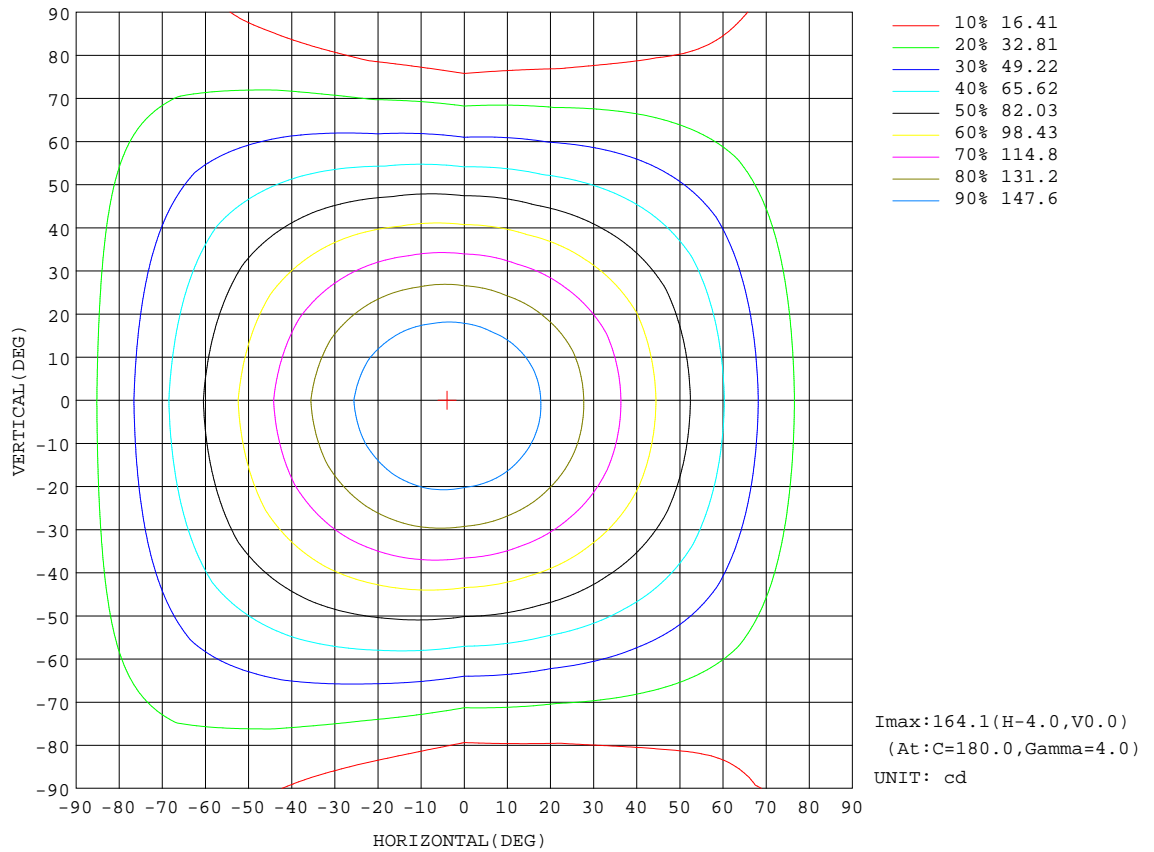
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	43	36	53	42	36	30
0.80	65	53	45	63	52	45	61	51	45	37
1.00	73	61	54	71	60	53	69	61	52	45
1.25	80	69	61	78	68	61	75	66	59	51
1.50	85	74	67	83	73	66	79	71	64	56
2.00	91	82	75	89	81	74	85	78	72	63
2.50	95	87	80	93	85	79	88	82	77	67
3.00	99	91	85	96	89	84	91	85	81	70
4.00	103	97	91	100	94	89	95	90	86	75
5.00	106	100	95	102	98	93	97	93	89	78
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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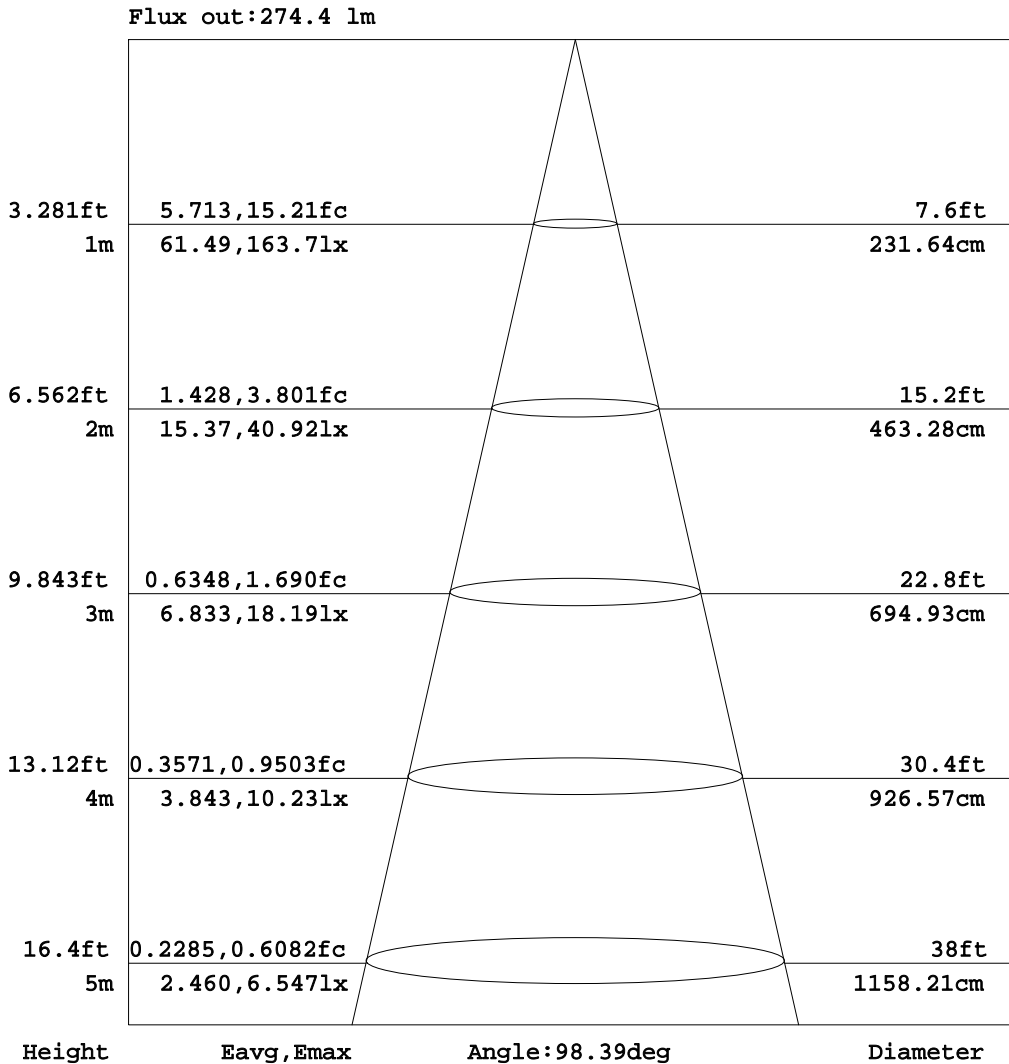


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AAI Figure

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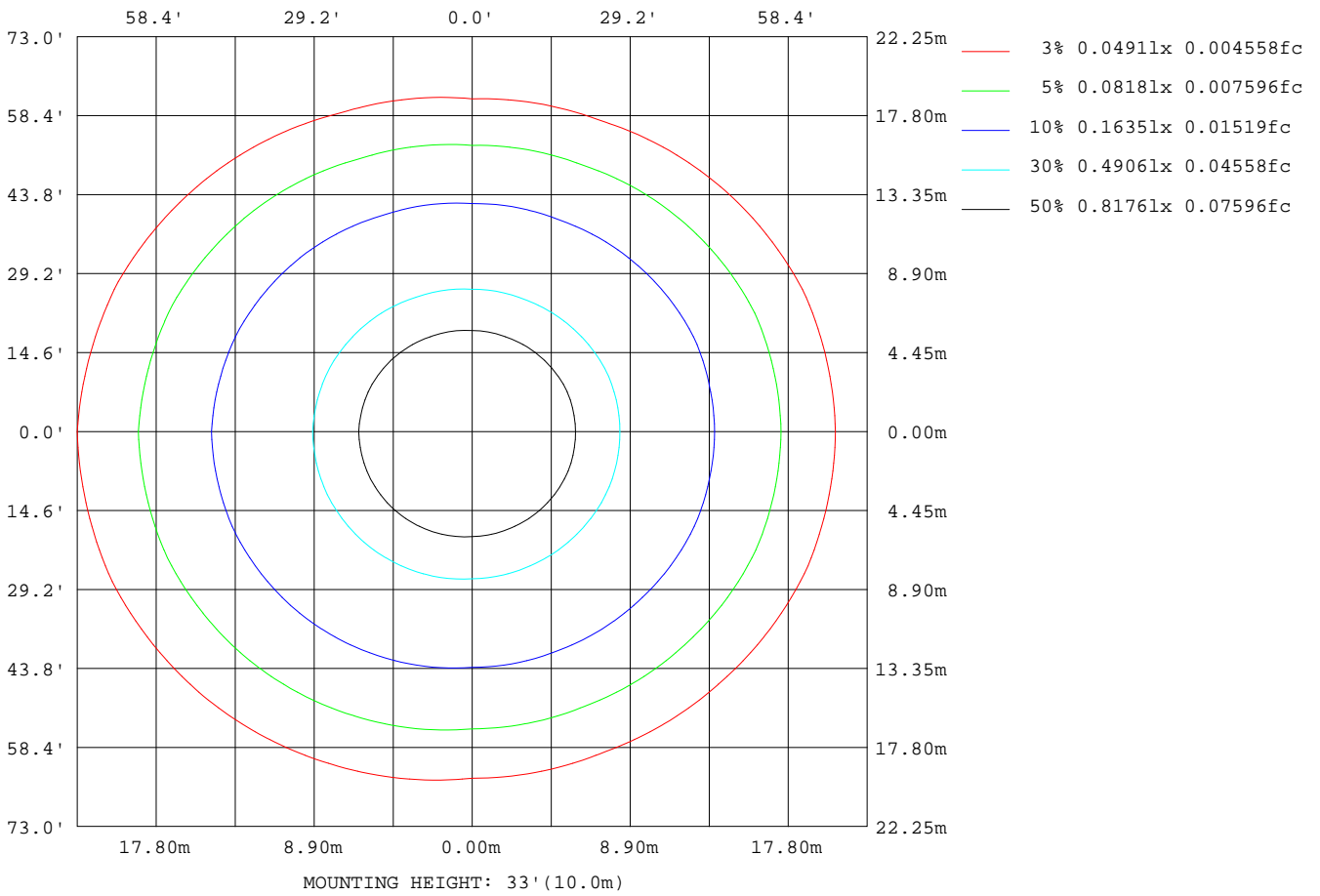
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

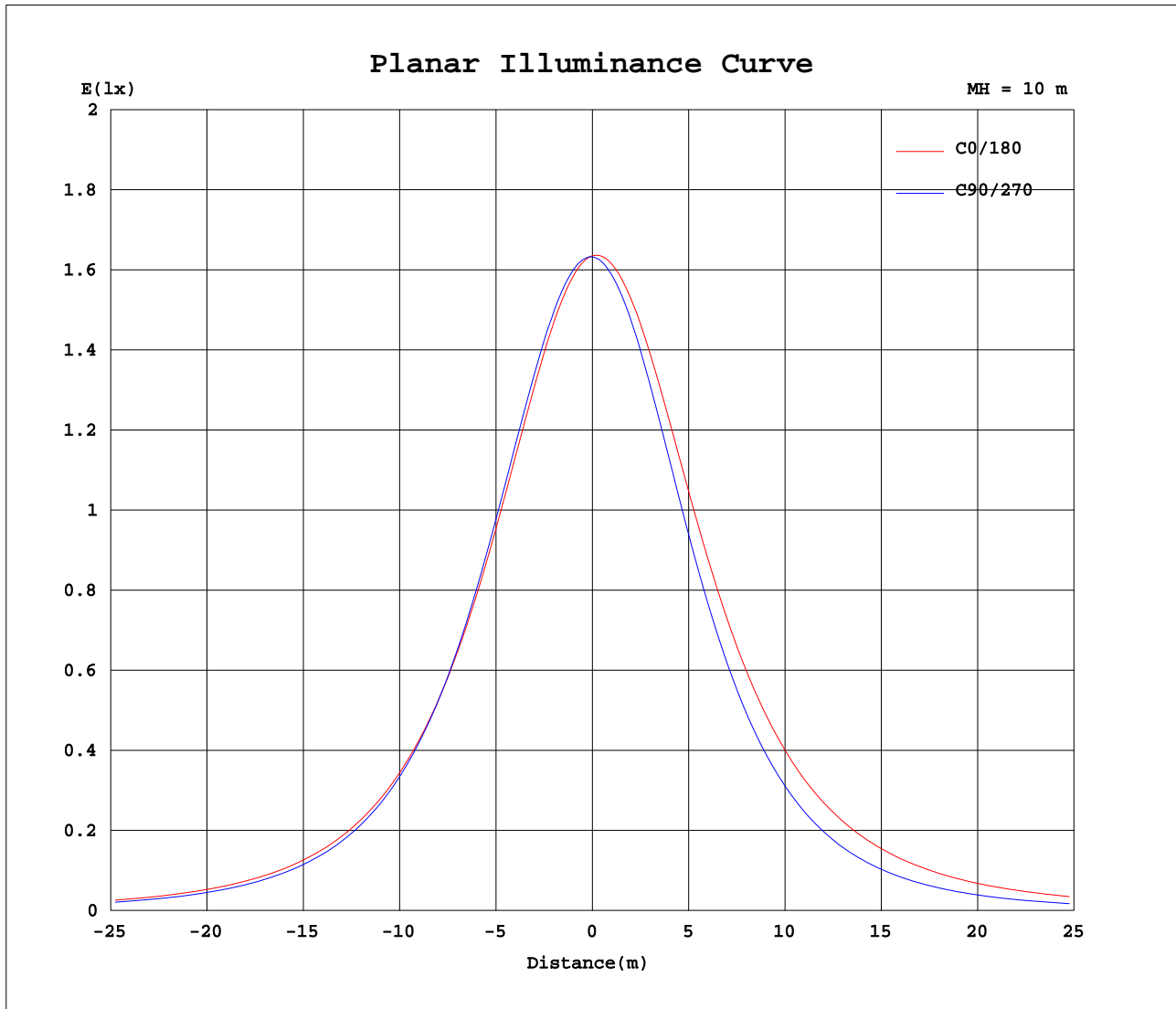
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Planar Illuminance Curve



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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.0415A P:8.400W PF:0.9184 Lamp Flux:486.72x1 lm		
NAME: LED Plug Light	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	164	164	163	163	163	163	163	163	164	164	163	163	163	163	163	163			
5	161	162	162	162	163	163	164	164	164	164	163	162	162	161	161	161			
10	157	158	158	159	160	161	162	162	163	162	160	159	158	157	157	157			
15	151	152	153	154	155	157	158	159	160	158	156	154	152	151	151	151			
20	144	145	146	147	148	151	153	154	155	153	150	146	144	143	143	144			
25	136	137	137	138	140	143	145	148	149	146	142	137	134	133	134	136			
30	127	128	127	128	130	133	137	140	141	138	133	127	124	123	124	127			
35	117	118	117	117	119	123	127	131	132	129	123	116	112	112	114	117			
40	107	108	106	106	107	112	117	121	123	119	112	105	100	100.0	103	107			
45	97.3	97.1	94.7	93.7	94.6	100	106	111	113	109	101	92.6	88.0	88.1	91.8	96.4			
50	87.1	86.5	83.5	81.8	82.5	88.6	95.3	101	103	98.3	89.8	80.7	75.7	76.2	80.8	86.0			
55	76.7	76.0	72.3	70.1	70.5	77.1	84.4	90.7	93.2	87.9	78.7	68.9	63.5	64.4	69.7	75.4			
60	66.3	65.3	61.3	58.4	58.6	65.6	73.5	80.4	83.0	77.4	67.7	57.3	51.5	53.1	58.9	64.7			
65	55.7	54.9	50.5	47.1	46.9	54.5	62.9	70.1	72.8	67.1	57.0	46.1	40.0	42.2	48.2	54.0			
70	45.5	44.5	40.1	36.4	35.6	43.6	52.5	60.0	62.6	56.9	46.5	35.2	28.8	31.6	37.8	43.5			
75	35.7	34.7	30.3	26.2	25.1	33.5	42.6	50.0	52.4	46.8	36.7	24.9	18.0	21.6	28.1	33.7			
80	27.0	26.0	21.6	17.0	15.2	23.9	33.1	40.2	42.4	37.0	27.2	15.6	8.47	12.9	19.6	25.1			
85	21.0	19.4	14.6	9.32	6.87	15.5	24.5	31.2	33.1	28.1	18.9	8.18	1.82	7.26	14.2	19.5			
90	18.2	16.3	11.2	4.94	1.42	9.16	17.4	23.6	25.1	20.9	13.2	4.59	0.02	5.45	11.9	16.8			
95	16.0	14.2	9.50	3.77	0.73	6.54	13.6	18.9	20.2	17.3	11.1	3.72	0.02	4.50	10.4	14.7			
100	14.1	12.4	8.08	3.01	0.70	5.54	12.0	16.8	17.8	15.3	9.70	3.17	0.11	3.74	8.96	13.0			
105	12.4	10.8	6.95	2.52	0.70	4.77	10.5	14.8	15.7	13.5	8.51	2.79	0.13	3.18	7.74	11.3			
110	10.8	9.35	6.02	2.19	0.70	4.21	9.19	12.9	13.9	11.9	7.47	2.49	0.17	2.76	6.68	9.87			
115	9.34	8.15	5.25	1.93	0.73	3.77	8.05	11.2	12.2	10.5	6.55	2.30	0.19	2.41	5.81	8.61			
120	8.08	7.06	4.58	1.73	0.73	3.42	7.12	9.75	10.6	9.16	5.76	2.11	0.27	2.04	5.03	7.45			
125	6.95	6.06	3.95	1.46	0.74	3.06	6.26	8.47	9.18	7.95	5.05	1.93	0.33	1.49	4.32	6.43			
130	5.91	5.16	3.40	1.23	0.74	2.77	5.51	7.37	7.93	6.91	4.47	1.77	0.35	1.09	3.69	5.54			
135	5.01	4.34	2.88	1.08	0.74	2.50	4.85	6.39	6.81	5.96	3.91	1.65	0.40	0.98	3.09	4.74			
140	4.19	3.57	2.35	0.97	0.74	2.25	4.18	5.46	5.77	5.14	3.36	1.54	0.41	0.98	2.36	3.94			
145	3.40	2.83	1.77	0.74	0.76	2.01	3.57	4.59	4.86	4.35	2.89	1.43	0.48	0.97	1.61	3.15			
150	2.13	1.99	1.39	0.55	0.73	1.73	2.99	3.73	3.95	3.64	2.46	1.32	0.48	0.73	1.27	2.12			
155	1.65	1.37	1.15	0.51	0.70	1.47	2.47	2.99	3.15	2.99	2.04	1.11	0.49	0.55	1.11	1.48			
160	1.23	1.01	0.73	0.44	0.59	1.14	1.98	2.29	2.41	2.35	1.67	0.79	0.49	0.44	0.71	1.19			
165	0.90	0.55	0.54	0.49	0.59	0.87	1.65	1.78	1.80	1.85	1.31	0.70	0.55	0.43	0.51	0.72			
170	0.54	0.47	0.49	0.49	0.59	0.73	1.09	1.29	1.29	1.26	0.74	0.63	0.54	0.43	0.51	0.62			
175	0.52	0.46	0.47	0.49	0.59	0.62	0.78	0.68	0.58	0.70	0.51	0.57	0.54	0.52	0.54	0.57			
180	0.46	0.44	0.47	0.48	0.55	0.55	0.55	0.51	0.41	0.46	0.46	0.49	0.54	0.54	0.55	0.52			

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: