
FCL6 inch LED Downlight

FCL6-20W



Light Output Ratio:	100.0%	
Luminaire Power:	22.42 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.25	fine grid method.

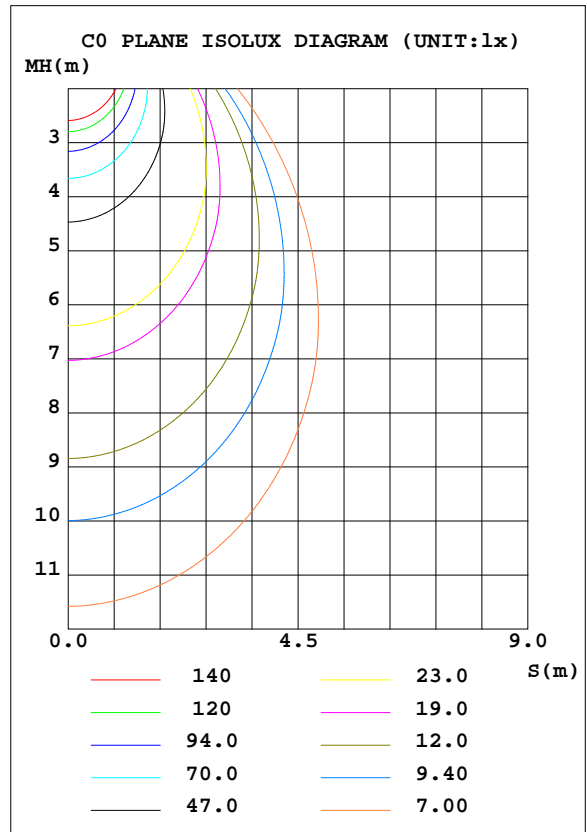
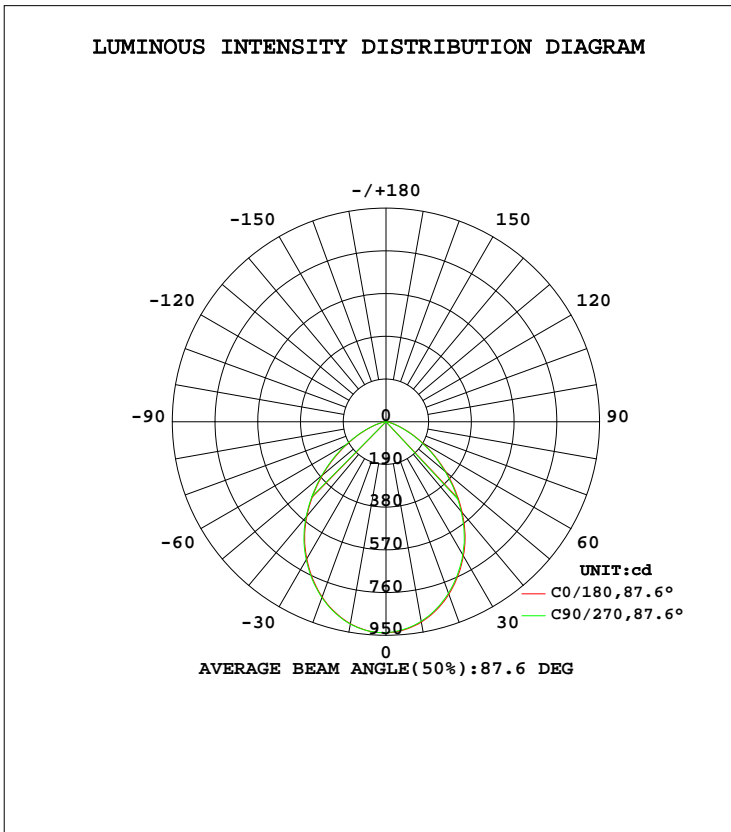
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Teddy
Test Date: 2012-02-19

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:220.2V I:0.1124A P:22.42W PF:0.9061 Lamp Flux:1833.56x1 lm		
NAME: FCL6 inch LED Downlights	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Fobsun Electronics Limited	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.78 lm/W			
MODEL	FCL6-20W	I _{max} (cd)	938.6	S/MH(C0/180)	1.11
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.11
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1833.6	η UP, DN(C0-180)	0.1, 48.7
NOMINAL FLUX(lm)	1833.56	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2, 51.0
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	99.7	CIBSE SHR MAX	1.25



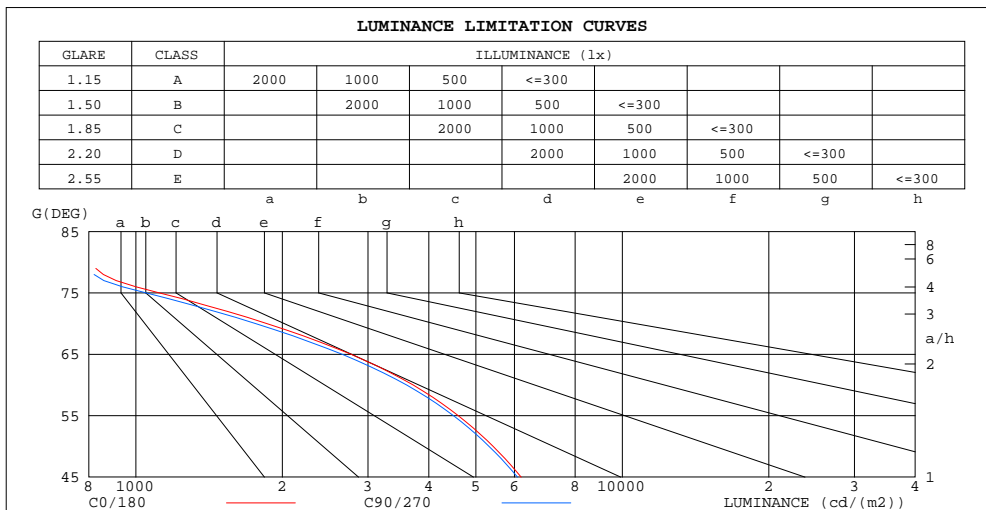
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 Humidity:65.0%
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 Remarks:

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	904.7	901.3	901.3	904.8	912.4	914.2	913.4	910.3	0- 10	88.09	88.09	4.8,4.8
20	817.1	811.3	811.6	818.4	829.6	833.9	832.6	826.6	10- 20	245.1	333.2	18.2,18.2
30	688.8	682.0	683.1	691.1	704.5	710.9	709.4	701.2	20- 30	351.0	684.2	37.3,37.3
40	527.3	518.8	520.2	530.7	547.6	555.3	552.9	542.5	30- 40	387.4	1072	58.4,58.4
50	348.7	340.5	342.0	352.3	368.4	376.8	374.4	363.5	40- 50	344.6	1416	77.2,77.2
60	185.8	179.0	180.0	188.7	200.9	207.8	205.9	196.8	50- 60	244.1	1660	90.6,90.6
70	63.62	59.75	60.31	65.06	74.14	78.55	77.34	71.71	60- 70	124.3	1785	97.3,97.3
80	13.86	12.98	13.14	14.21	15.91	16.39	16.22	15.63	70- 80	37.23	1822	99.4,99.4
90	0	0	0	0.0159	0	0.0155	0	0	80- 90	6.540	1828	99.7,99.7
100	0	0	0	0.0159	0.0957	0.0958	0.0639	0.0797	90-100	0.0115	1828	99.7,99.7
110	0.0635	0.0631	0.1575	0.2072	0.3674	0.3984	0.3350	0.3512	100-110	0.1189	1829	99.7,99.7
120	0.4780	0.4616	0.5094	0.5087	0.8452	0.8144	0.7966	0.7974	110-120	0.4354	1829	99.8,99.8
130	0.7489	0.8442	1.003	0.8919	1.244	1.259	1.227	1.228	120-130	0.7618	1830	99.8,99.8
140	1.116	1.194	1.273	1.259	1.691	1.689	1.658	1.659	130-140	0.9685	1831	99.8,99.8
150	1.498	1.645	1.720	1.737	2.136	2.119	2.151	2.105	140-150	1.045	1832	99.9,99.9
160	1.559	1.695	1.770	1.832	2.344	2.241	2.353	2.289	150-160	0.9073	1833	100,100
170	2.517	2.533	2.627	2.613	2.774	2.788	2.820	2.775	160-170	0.6224	1833	100,100
180	2.997	3.011	3.075	3.077	2.917	2.963	3.075	3.077	170-180	0.2755	1834	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	599	542
80	798	757
75	1117	1050
70	1860	1763
65	2769	2653
60	3715	3600
55	4601	4497
50	5425	5320
45	6193	6090

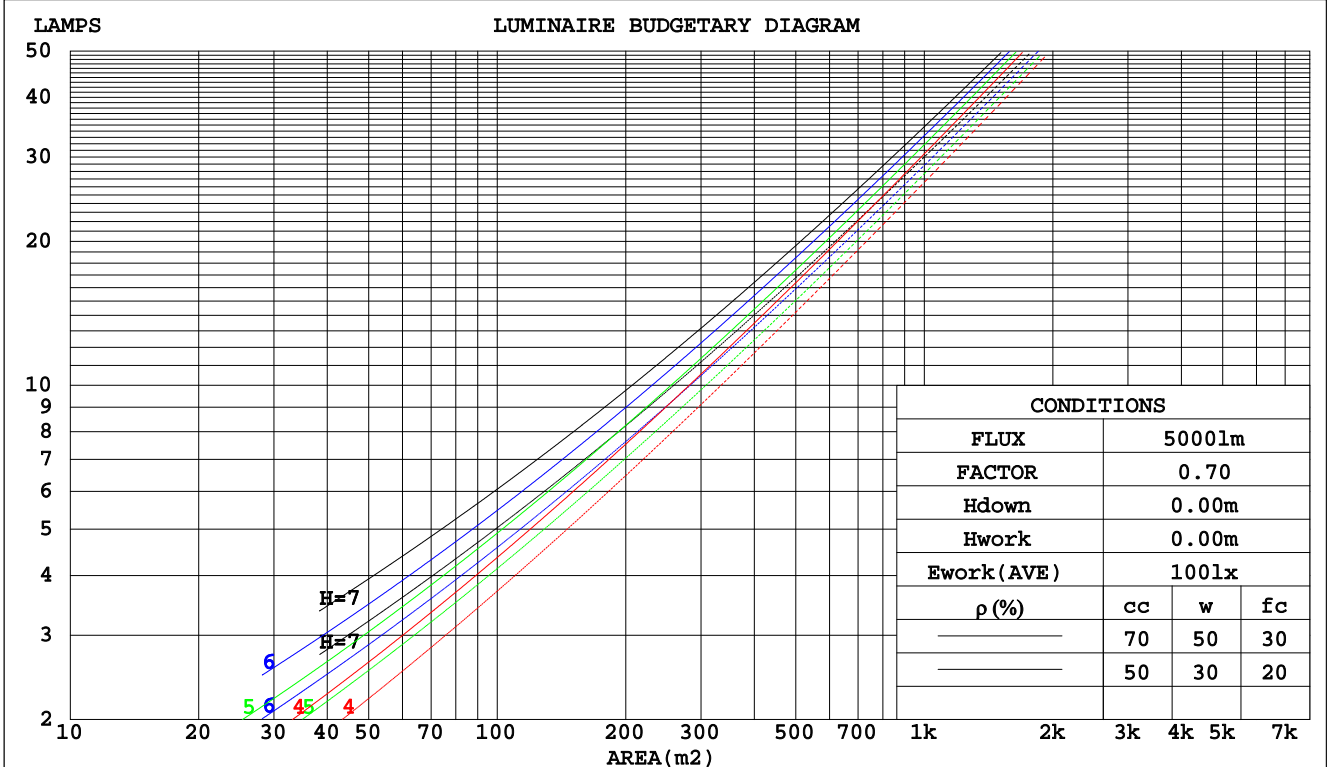
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Temperature:25.3DEG
Operators:Teddy
Test Date:2012-02-19

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.2V I:0.1124A P:22.42W PF:0.9061 Lamp Flux:1833.56x1 lm		
NAME: FCL6 inch LED Downlights	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																
pfc	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	.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.84	.80	.84	.81	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67
4.0	.77	.70	.64	.76	.69	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.52	.48	.46
7.0	.58	.50	.45	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.48	.43	.42
8.0	.53	.46	.40	.53	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.39	.38
9.0	.49	.42	.37	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.34
10.0	.46	.38	.33	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.266
 Humidity: 65.0%
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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	.247	.140	.045	.240	.137	.043	.227	.130	.042	.215	.124	.040	.204	.118	.038	
2.0	.240	.132	.040	.234	.129	.040	.223	.124	.039	.213	.119	.037	.203	.115	.036	
3.0	.228	.122	.036	.223	.120	.036	.213	.116	.035	.204	.112	.034	.195	.108	.033	
4.0	.215	.112	.033	.211	.110	.033	.202	.107	.032	.194	.104	.031	.186	.101	.031	
5.0	.203	.103	.030	.198	.102	.030	.191	.099	.029	.183	.097	.029	.177	.094	.028	
6.0	.191	.096	.027	.187	.094	.027	.180	.092	.027	.173	.090	.026	.167	.088	.026	
7.0	.179	.089	.025	.176	.088	.025	.170	.086	.025	.164	.084	.024	.159	.082	.024	
8.0	.169	.083	.023	.166	.082	.023	.161	.080	.023	.155	.079	.023	.151	.077	.023	
9.0	.160	.077	.022	.157	.077	.022	.152	.075	.021	.148	.074	.021	.143	.073	.021	
10.0	.151	.073	.020	.149	.072	.020	.145	.071	.020	.140	.070	.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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.178	.159	.141	.152	.136	.122	.104	.094	.084	.060	.054	.049	.019	.017	.016	
2.0	.168	.134	.106	.144	.116	.092	.098	.080	.064	.057	.047	.038	.018	.015	.012	
3.0	.159	.116	.082	.136	.100	.071	.093	.070	.050	.054	.041	.030	.017	.013	.010	
4.0	.151	.102	.066	.129	.089	.057	.089	.062	.040	.051	.036	.024	.017	.012	.008	
5.0	.143	.092	.053	.123	.079	.047	.085	.055	.033	.049	.033	.019	.016	.011	.006	
6.0	.137	.083	.045	.117	.072	.039	.081	.050	.028	.047	.030	.016	.015	.010	.005	
7.0	.130	.076	.038	.112	.066	.033	.077	.046	.023	.045	.027	.014	.015	.009	.005	
8.0	.124	.070	.033	.107	.061	.029	.074	.043	.020	.043	.025	.012	.014	.008	.004	
9.0	.119	.065	.029	.102	.057	.025	.071	.040	.018	.041	.024	.011	.013	.008	.004	
10.0	.114	.061	.026	.098	.053	.023	.068	.037	.016	.040	.022	.010	.013	.007	.003	

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:

Uncorrected UGR Table

Test:U:220.2V I:0.1124A P:22.42W PF:0.9061 Lamp Flux:1833.56x1 lm										
NAME: FCL6 inch LED Downlights					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	17.4	18.8	17.7	19.0	19.2	17.3	18.7	17.6	18.9	19.1
3H	17.8	19.0	18.1	19.2	19.5	17.7	18.9	18.0	19.1	19.3
4H	17.8	19.0	18.1	19.2	19.4	17.7	18.8	18.0	19.1	19.3
6H	17.7	18.8	18.1	19.1	19.4	17.6	18.7	17.9	19.0	19.2
8H	17.7	18.8	18.1	19.0	19.3	17.6	18.6	17.9	18.9	19.2
12H	17.7	18.7	18.0	19.0	19.3	17.5	18.5	17.9	18.8	19.1
4H 2H	17.6	18.8	17.9	19.0	19.3	17.5	18.7	17.8	18.9	19.2
3H	18.0	19.0	18.4	19.3	19.6	17.9	18.9	18.3	19.2	19.5
4H	18.1	19.0	18.5	19.3	19.6	18.0	18.9	18.3	19.2	19.5
6H	18.1	18.9	18.5	19.2	19.6	18.0	18.8	18.4	19.1	19.5
8H	18.1	18.8	18.5	19.2	19.5	17.9	18.7	18.3	19.0	19.4
12H	18.0	18.7	18.5	19.1	19.5	17.9	18.6	18.3	19.0	19.4
8H 4H	18.0	18.8	18.4	19.1	19.5	17.9	18.7	18.3	19.0	19.4
6H	18.0	18.6	18.5	19.1	19.5	17.9	18.5	18.4	18.9	19.4
8H	18.0	18.6	18.5	19.0	19.5	17.9	18.5	18.4	18.9	19.3
12H	18.0	18.5	18.5	18.9	19.4	17.9	18.4	18.4	18.8	19.3
12H 4H	18.0	18.7	18.4	19.0	19.4	17.9	18.5	18.3	18.9	19.3
6H	18.0	18.5	18.5	19.0	19.4	17.9	18.4	18.4	18.9	19.3
8H	18.0	18.5	18.5	18.9	19.4	17.9	18.4	18.4	18.8	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.7 / - 0.9				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.4				
2.0H	+ 1.2 / - 1.6					+ 1.2 / - 1.6				

CIE Pub.117 Corrected 1834 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.1)

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UTILIZATION FACTORS TABLE

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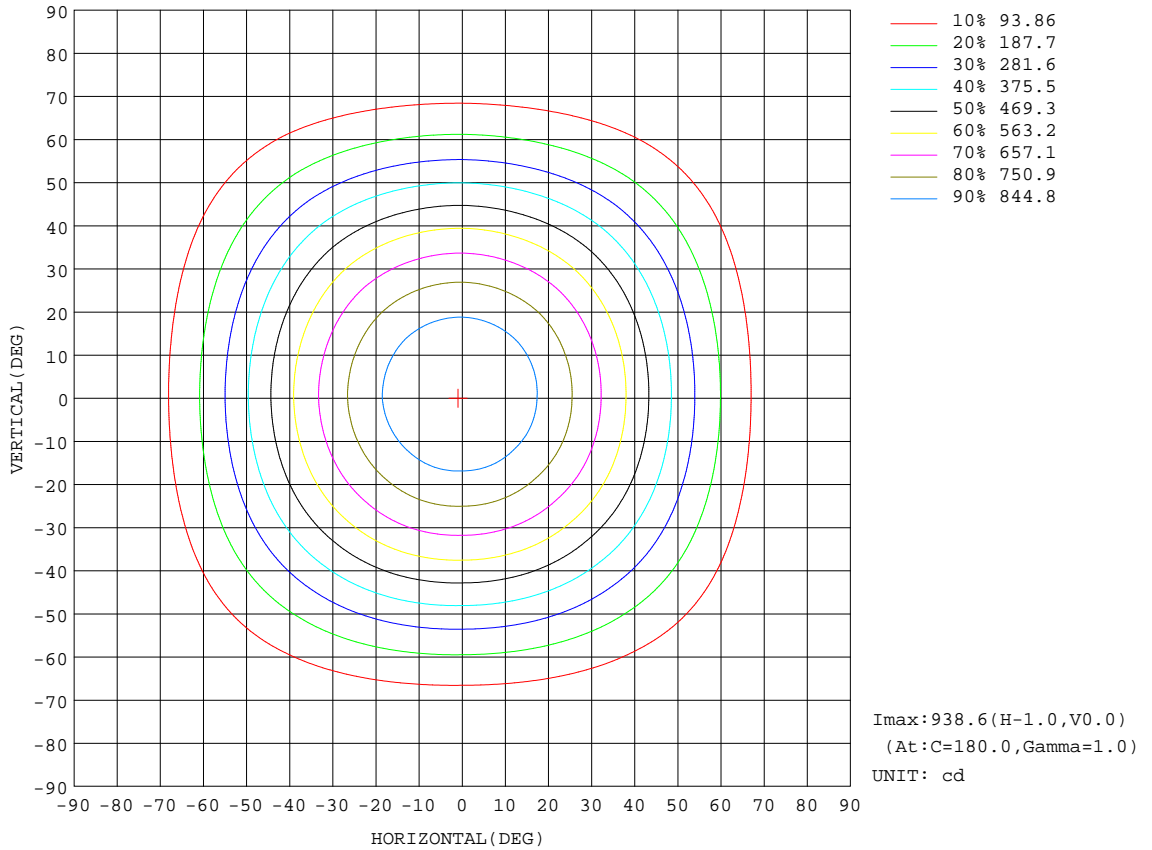
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	49	65	55	49	63	54	49	43
0.80	75	65	59	74	65	59	73	64	59	53
1.00	84	74	68	82	74	68	80	75	67	61
1.25	90	82	76	89	81	75	86	80	74	68
1.50	95	87	81	93	86	80	90	84	79	73
2.00	100	94	88	99	92	88	95	90	86	79
2.50	103	97	92	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
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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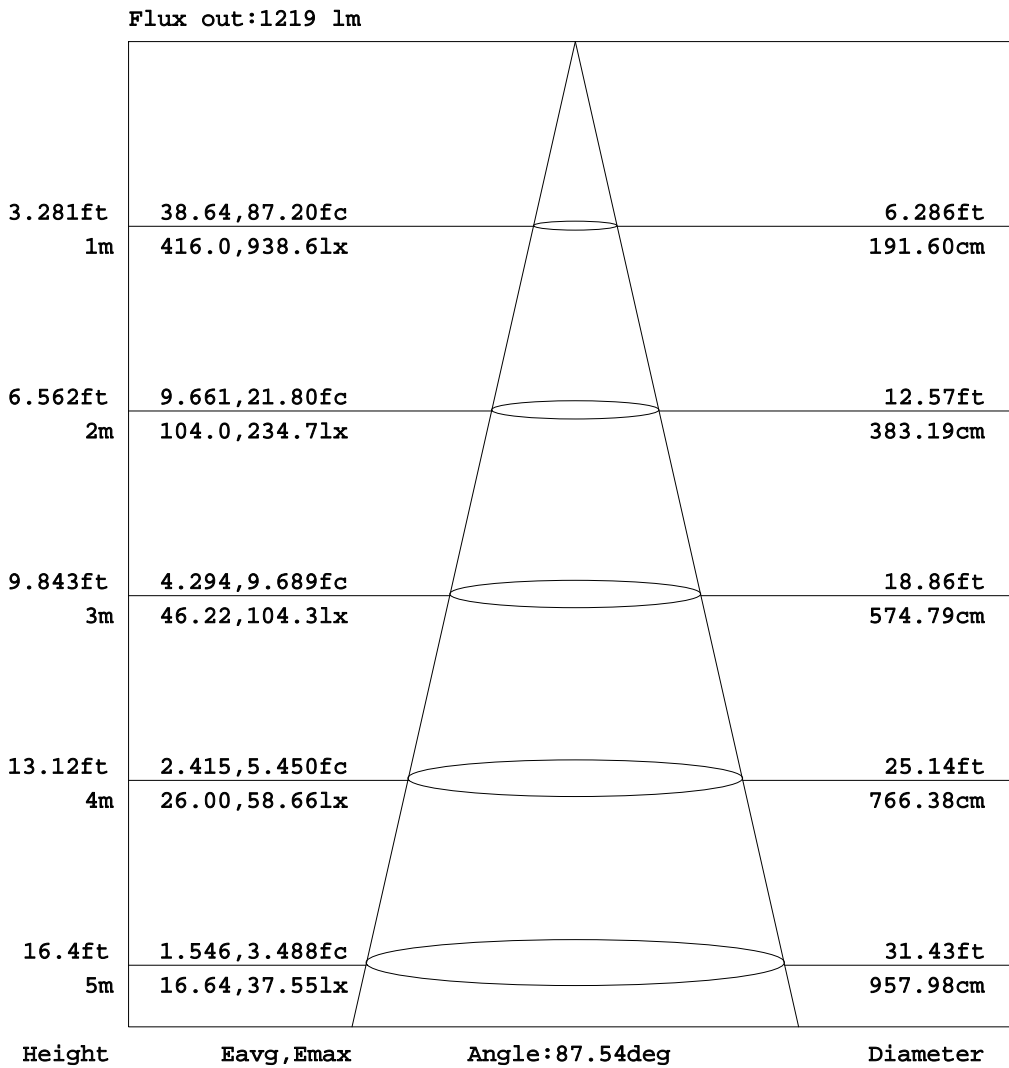


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AAI Figure

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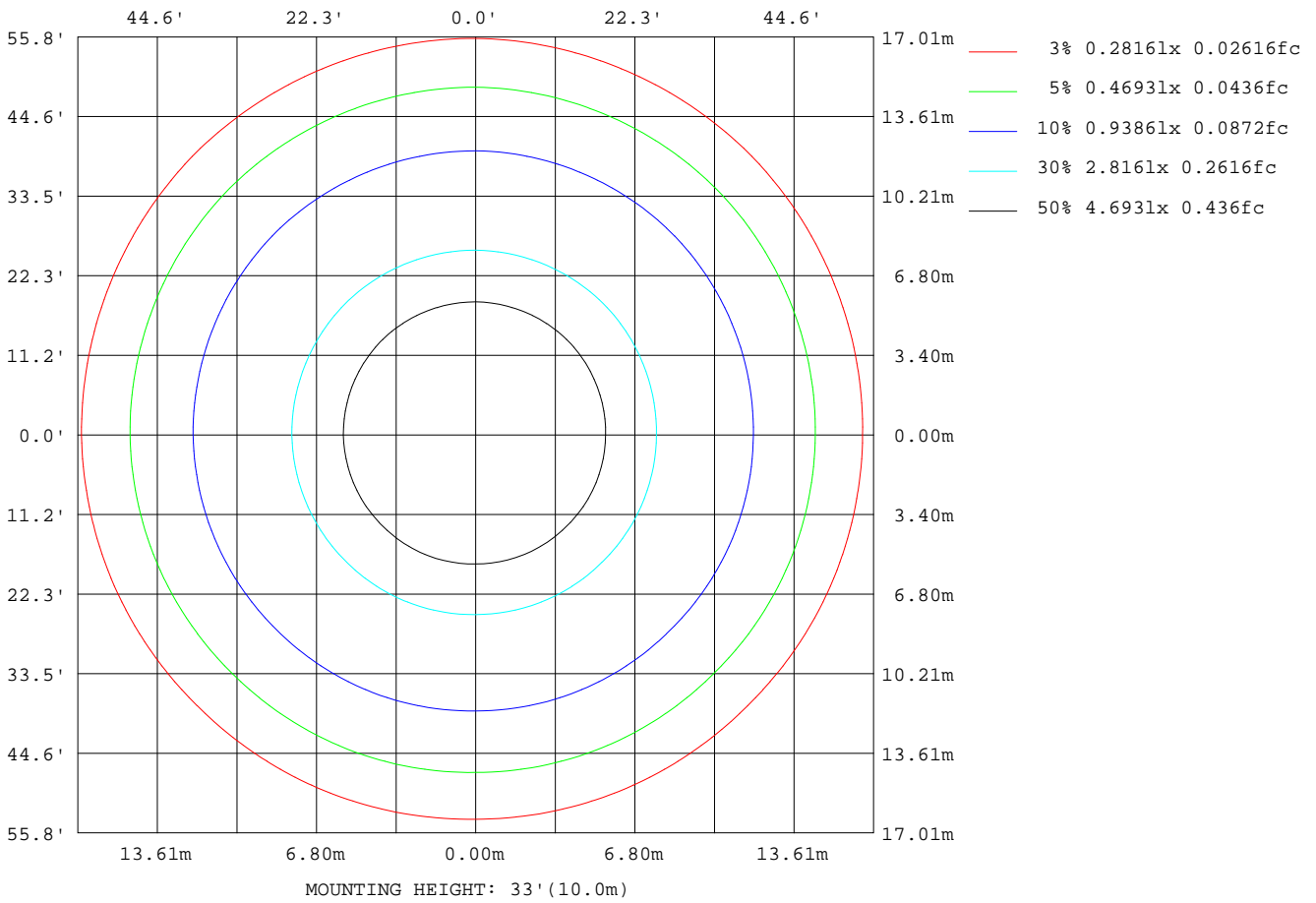
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

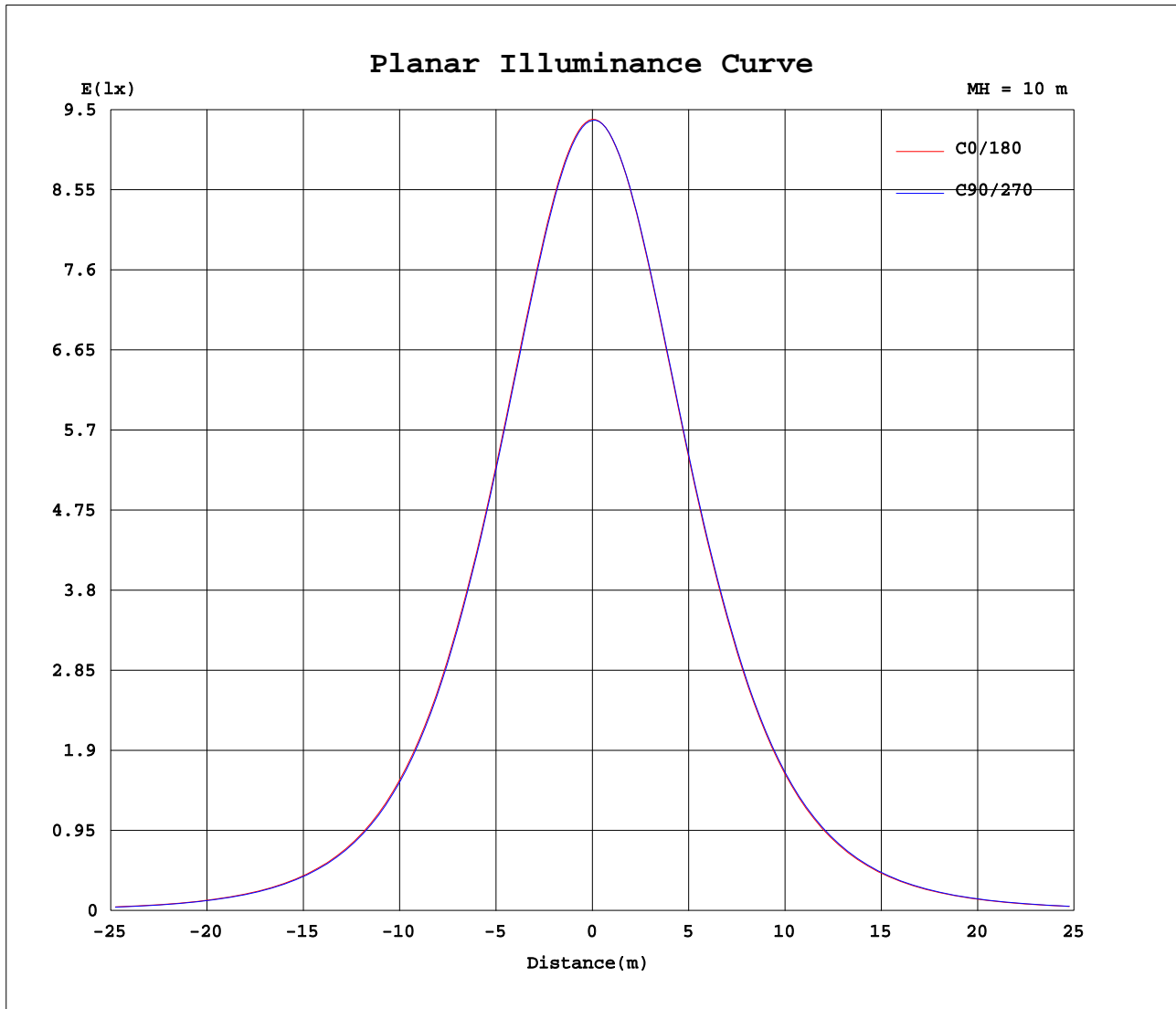
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Planar Illuminance Curve



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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.2V I:0.1124A P:22.42W PF:0.9061 Lamp Flux:1833.56x1 lm		
NAME: FCL6 inch LED Downlights	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	939	938	938	938	937	938	937	938	939	938	938	938	937	938	937	938			
5	929	928	927	927	926	928	929	930	933	933	934	934	933	932	932	930			
10	905	903	901	901	901	903	905	908	912	913	914	914	913	912	910	908			
15	867	865	862	863	862	866	867	872	877	879	880	880	880	877	875	871			
20	817	815	811	812	812	816	818	824	830	831	834	833	833	829	827	822			
25	757	754	751	751	752	756	759	765	771	773	777	776	775	771	768	762			
30	689	686	682	683	683	688	691	697	704	707	711	710	709	705	701	695			
35	614	610	606	607	607	612	616	624	631	634	639	637	637	631	627	620			
40	527	524	519	520	520	526	531	539	548	551	555	554	553	547	543	534			
45	438	434	429	430	431	437	441	450	458	461	466	465	464	458	453	445			
50	349	345	341	342	342	348	352	361	368	372	377	375	374	368	364	355			
55	264	261	257	258	258	263	267	275	281	285	290	288	287	281	277	269			
60	186	183	179	180	180	185	189	196	201	204	208	207	206	201	197	190			
65	117	115	111	112	112	116	119	126	131	133	136	135	135	130	127	122			
70	63.6	62.0	59.7	60.4	60.3	63.0	65.1	69.5	74.1	76.1	78.6	77.8	77.3	74.0	71.7	67.7			
75	28.9	28.1	26.8	27.1	27.2	28.7	29.9	32.3	35.0	36.3	37.9	37.4	37.2	35.1	33.7	31.4			
80	13.9	13.5	13.0	13.2	13.1	13.7	14.2	15.0	15.9	16.0	16.4	16.2	16.2	15.9	15.6	14.9			
85	5.22	4.82	4.34	4.77	4.72	5.19	5.25	5.45	6.10	6.15	6.49	6.28	6.05	5.84	6.01	5.66			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.05			
95	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.00	0.00	0.03			
100	0.00	0.08	0.00	0.08	0.00	0.00	0.02	0.02	0.10	0.00	0.10	0.00	0.06	0.02	0.08	0.03			
105	0.00	0.16	0.00	0.19	0.00	0.11	0.02	0.11	0.19	0.00	0.21	0.00	0.19	0.03	0.16	0.11			
110	0.06	0.29	0.06	0.35	0.16	0.22	0.21	0.26	0.37	0.21	0.40	0.24	0.34	0.24	0.35	0.29			
115	0.24	0.46	0.24	0.51	0.30	0.41	0.30	0.41	0.59	0.37	0.61	0.37	0.56	0.46	0.59	0.49			
120	0.48	0.65	0.46	0.72	0.51	0.61	0.51	0.62	0.85	0.59	0.81	0.65	0.80	0.69	0.80	0.75			
125	0.56	0.81	0.68	0.89	0.70	0.78	0.70	0.80	1.01	0.78	1.04	0.81	1.02	0.92	0.99	0.97			
130	0.75	1.00	0.84	1.13	1.00	1.01	0.89	0.99	1.24	1.04	1.26	1.07	1.23	1.15	1.23	1.24			
135	0.99	1.12	0.99	1.24	1.07	1.18	1.05	1.10	1.47	1.29	1.47	1.26	1.45	1.35	1.44	1.46			
140	1.12	1.37	1.19	1.47	1.27	1.39	1.26	1.31	1.69	1.51	1.69	1.53	1.66	1.56	1.66	1.63			
145	1.26	1.55	1.46	1.61	1.50	1.56	1.48	1.56	1.90	1.72	1.91	1.74	1.90	1.82	1.88	1.82			
150	1.50	1.76	1.64	1.81	1.72	1.73	1.74	1.77	2.14	1.96	2.12	2.01	2.15	2.04	2.10	2.04			
155	1.51	1.79	1.67	1.83	1.75	1.79	1.77	1.77	2.28	2.06	2.21	2.09	2.29	2.26	2.23	2.23			
160	1.56	1.83	1.69	1.85	1.77	1.82	1.83	1.80	2.34	2.11	2.24	2.16	2.35	2.32	2.29	2.28			
165	1.77	1.86	1.78	1.88	1.78	1.90	1.99	1.83	2.44	2.25	2.36	2.21	2.41	2.34	2.36	2.36			
170	2.52	2.69	2.53	2.74	2.63	2.74	2.61	2.65	2.77	2.63	2.79	2.63	2.82	2.77	2.77	2.73			
175	2.92	3.01	2.88	3.11	3.03	3.01	3.00	3.01	2.98	2.98	3.06	3.01	3.07	3.04	3.08	3.01			
180	3.00	2.98	3.01	3.06	3.07	3.08	3.08	3.05	2.92	2.96	2.96	3.08	3.07	3.09	3.08	3.03			

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: