

Bulb Flats - Dimensions & Properties

To BS 4848:Part 5:1980

Size	Width Thick-ness		Mass per unit length G	Bulb height c	Bulb radius r ₁	Area of cross section F	Surface area U	Distance of centre of gravity Cx	Second Moment of Area Axis x-x	Elastic modulus Axis x-x	Centre of gravity Cy	Second Moment of Area Axis y-y	Radius of gyration Axis y-y
	b	t											
mm	mm	mm	kg/m	mm	mm	cm ²	m ² /m	cm	cm ⁴	cm ²	cm	cm ⁴	cm
120 x 6	120	6	7.31	17	5	9.31	0.276	7.20	133	18.4	5.3	2.34	0.50
7		7	8.25	17	5	10.5	0.278	7.07	148	21.0	5.6	2.70	0.51
8		8	9.19	17	5	11.7	0.280	6.96	164	23.6	6.0	3.10	0.51
140 x 6.5	140	6.5	9.21	19	5.5	11.7	0.319	8.37	228	27.3	5.8	3.57	0.55
7		7	9.74	19	5.5	12.4	0.320	8.31	241	29.0	5.9	3.80	0.55
8		8	10.8	19	5.5	13.8	0.322	8.18	266	32.5	6.3	4.32	0.56
10		10	13.0	19	5.5	16.6	0.326	7.92	316	39.8	7.0	5.56	0.58
160 x 7	160	7	11.4	22	6	14.6	0.365	9.66	373	38.6	6.4	5.86	0.63
8		8	12.7	22	6	16.2	0.367	9.49	411	43.3	6.8	6.55	0.64
9		9	14.0	22	6	17.8	0.369	9.36	448	47.9	7.1	7.32	0.64
11.5		11.5	17.3	22	6	21.8	0.374	9.11	544	59.8	8.1	9.62	0.66
180 x 8	180	8	14.8	25	7	18.9	0.411	10.9	609	55.9	7.4	9.90	0.72
9		9	16.2	25	7	20.7	0.413	10.7	633	61.8	7.7	10.93	0.73
10		10	17.6	25	7	22.5	0.415	10.6	717	67.8	8.1	12.05	0.73
11.5		11.5	19.7	25	7	25.2	0.418	10.4	799	76.8	8.6	13.93	0.74
200 x 8.5	200	8.5	17.8	28	8	22.6	0.456	12.2	902	74.0	8.2	15.07	0.82
9		9	18.5	28	8	23.6	0.457	12.1	941	77.7	8.4	15.76	0.82
10		10	20.1	28	8	25.6	0.459	11.9	1020	85.0	8.7	17.21	0.82
11		11	21.7	28	8	27.6	0.461	11.8	1090	92.3	9.0	18.77	0.82
12		12	23.2	28	8	29.6	0.463	11.7	1160	99.6	9.4	20.46	0.83
220 x 9	220	9	21.0	31	9	26.8	0.501	13.6	1296	95.3	9.1	22.03	0.91
10		10	22.8	31	9	29.0	0.503	13.4	1400	105	9.3	23.89	0.91
11		11	24.5	31	9	31.2	0.505	13.2	1500	113	9.6	25.86	0.91
12		12	26.2	31	9	33.4	0.507	13.0	1590	122	10.0	27.98	0.92
240 x 9.5	240	9.5	24.4	34	10	31.2	0.546	14.8	1800	123	9.9	31.15	1.00
10		10	25.4	34	10	32.4	0.547	14.7	1860	126	10.0	32.34	1.00
11		11	27.4	34	10	34.9	0.549	14.6	2000	137	10.3	34.81	1.00
12		12	29.3	34	10	37.3	0.551	14.4	2130	148	10.6	37.43	1.00
260 x 10	260	10	28.3	37	11	36.1	0.593	16.2	2477	153	10.7	42.84	1.09
11		11	30.3	37	11	38.7	0.593	16.0	2610	162	11.0	45.90	1.09
12		12	32.4	37	11	41.3	0.595	15.8	2770	175	11.3	49.11	1.09
280 x 10.5	280	10.5	32.4	40	12	41.2	0.636	17.5	3223	184	11.6	57.55	1.18
11		11	33.5	40	12	42.6	0.637	17.4	3330	191	11.7	59.44	1.18
12		12	35.7	40	12	45.5	0.639	17.2	3550	206	11.9	63.34	1.18
13		13	37.9	40	12	48.4	0.641	17.0	3760	221	12.2	67.42	1.18
300 x 11	300	11	36.7	43	13	46.7	0.681	18.9	4190	222	12.4	75.74	1.27
12		12	39.0	43	13	49.7	0.683	18.7	4460	239	12.6	80.44	1.27
13		13	41.5	43	13	52.8	0.685	18.5	4720	256	12.9	85.33	1.27
320 x 11.5	320	11.5	41.2	46	14	52.6	0.727	20.2	5370	266	13.3	97.92	1.36
12		12	42.5	46	14	54.2	0.728	20.1	5530	274	13.4	100.76	1.36
13		13	45.0	46	14	57.4	0.730	19.9	5850	294	13.6	106.57	1.36
14		14	47.5	46	14	60.6	0.732	19.7	6170	313	13.9	112.60	1.36
340 x 12	340	12	46.1	49	15	58.8	0.772	21.5	6760	313	14.1	124.64	1.46
13		13	48.8	49	15	62.2	0.774	21.3	7160	335	14.3	131.51	1.45
14		14	51.5	49	15	65.5	0.776	21.1	7540	357	14.6	138.60	1.45
15		15	54.2	49	15	69.0	0.778	20.9	7920	379	14.8	145.93	1.45
370 x 12.5	370	12.5	53.1	53.5	16.5	67.8	0.839	23.6	9213	390	15.4	172.31	1.59
13		13	54.6	53.5	16.5	69.6	0.840	23.5	9470	402	15.4	176.71	1.59
14		14	57.5	53.5	16.5	73.3	0.842	23.2	9980	428	15.6	185.65	1.59
15		15	60.5	53.5	16.5	77.0	0.844	23.0	10490	455	15.9	194.83	1.59
16		16	63.5	53.5	16.5	80.7	0.846	22.8	10980	481	16.1	204.30	1.59
400 x 13	400	13	60.8	58	18	77.4	0.907	25.8	12280	476	16.6	232.44	1.73
14		14	63.9	58	18	81.4	0.908	25.5	12930	507	16.8	243.59	1.73
15		15	67.0	58	18	85.4	0.910	25.2	13580	537	17.0	254.97	1.73
16		16	70.2	58	18	89.4	0.912	25.0	14220	568	17.2	266.64	1.73
430 x 14	430	14	70.6	62.5	19.5	89.7	0.975	27.7	15460	594	17.9	313.89	1.87
15		15	73.9	62.5	19.5	94.1	0.976	27.4	17260	628	18.1	327.86	1.87
17		17	80.6	62.5	19.5	103	0.980	26.9	18860	700	18.5	356.65	1.86
20		20	90.8	62.5	19.5	115	0.986	26.3	21180	804	19.3	402.63	1.87