

Emergency Lighting Spacing Table

EL Spacing Table

Australian Standard AS2293.1-2005

Australian Standard AS2293.1-2005 specifies that the light level at the floor, under emergency lighting conditions, must be a minimum of 0.2 lux. The illuminance level at the floor will be dependent upon both the light output of the fitting and the height at which the fitting is mounted above the floor.

Emergency light fittings are tested and based on performance, assigned classifications in a number of classes (Class A to Class E). Fittings with a single light source are generally classified in two axis, C0 and C90. Fittings with two light sources such as a 2x36W batten are generally assigned classifications in three axis – C0, C90 and C180 as the light distribution is not symmetrical.

The spacing tables in Australian Standard AS2293.1-2005 can be used to determine the maximum spacing between fittings in each of the several axis, dependent upon the classification of the fitting.

Classification	Mounting height, metres, above floor																
	2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	15.0	20.0	
B16	6.4	6.8	7.2	7.6	7.9	8.2	8.6	9.0	9.3	9.6	9.7	9.6	9.1	8.2			Maximum spacing between fittings, metres
B20	6.7	7.2	7.7	8.1	8.4	8.8	9.2	9.6	10.0	10.5	10.8	10.9	10.7	10.2			
B25	7.1	7.6	8.1	8.5	9.0	9.3	9.8	10.3	10.7	11.4	11.9	12.1	12.2	12.0	5.7		
B32	7.5	8.1	8.6	9.1	9.5	10.0	10.5	11.1	11.6	12.4	13.1	13.5	13.7	13.8	10.6		
B40	7.8	8.5	9.0	9.6	10.1	10.5	11.1	11.7	12.3	13.3	14.1	14.7	15.1	15.3	13.8		
B50	8.2	8.9	9.5	10.1	10.6	11.1	11.7	12.4	13.1	14.2	15.1	15.9	16.4	16.9	16.6	11.1	
B63	8.6	9.3	10.0	10.6	11.2	11.7	12.4	13.2	13.9	15.2	16.2	17.1	17.8	18.4	19.2	16.2	
B80	9.1	9.8	10.5	11.2	11.8	12.4	13.1	14.0	14.7	16.2	17.4	18.4	19.3	20.0	21.8	20.4	
B100	9.5	10.3	11.0	11.7	12.4	13.0	13.8	14.7	15.6	17.1	18.4	19.6	20.6	21.5	24.1	23.9	
B125	9.9	10.7	11.5	12.3	13.0	13.6	14.5	15.5	16.4	18.0	19.5	20.8	22.0	23.0	26.3	27.2	
C16	8.3	8.8	9.3	9.7	10.0	10.3	10.7	11.0	11.3	11.6	11.6	11.3	10.7	9.6			
C20	8.9	9.4	9.9	10.3	10.7	11.1	11.5	12.0	12.3	12.8	13.0	13.0	12.7	12.0			
C25	9.4	10.0	10.5	11.0	11.5	11.9	12.4	12.9	13.4	14.0	14.4	14.6	14.5	14.2	6.6		
C32	10.0	10.7	11.3	11.8	12.3	12.8	13.4	14.0	14.5	15.4	16.0	16.4	16.5	16.5	12.3		
C40	10.6	11.3	12.0	12.6	13.1	13.6	14.3	15.0	15.6	16.6	17.4	17.9	18.3	18.5	16.2		
C50	11.3	12.0	12.7	13.4	14.0	14.5	15.2	16.0	16.7	17.9	18.8	19.6	20.1	20.4	19.6	12.9	
C63	11.9	12.8	13.5	14.2	14.9	15.5	16.2	17.1	17.9	19.2	20.3	21.2	22.0	22.5	22.9	18.9	
C80	12.7	13.5	14.4	15.1	15.8	16.5	17.3	18.3	19.1	20.7	22.0	23.0	23.9	24.7	26.1	24.0	
C100	13.4	14.3	15.2	16.0	16.8	17.5	18.4	19.4	20.4	22.1	23.5	24.8	25.8	26.7	29.1	28.4	
C125	14.1	15.1	16.1	16.9	17.7	18.5	19.5	20.6	21.7	23.5	25.1	26.5	27.7	28.8	32.1	32.5	
D16	12.1	12.6	13.0	13.3	13.6	13.9	14.1	14.6	14.6	14.6	14.4	13.8	12.9	11.5			
D20	13.1	13.6	14.1	14.5	14.8	15.1	15.5	15.8	16.1	16.4	16.3	16.0	15.4	14.5			
D25	14.2	14.7	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18.1	18.3	18.2	17.9	17.3	7.7		
D32	15.4	16.1	16.7	17.2	17.6	18.0	18.5	19.1	19.5	20.2	20.6	20.7	20.6	20.3	14.6		
D40	16.7	17.4	18.0	18.6	19.1	19.6	20.1	20.8	21.3	22.1	22.7	23.0	23.1	23.1	19.4		
D50	18.0	18.7	19.4	20.1	20.7	21.2	21.8	22.5	23.2	24.2	24.9	25.4	25.7	25.9	23.7	15.2	
D63	19.4	20.3	21.1	21.8	22.4	23.0	23.7	24.5	25.2	26.4	27.4	28.1	28.6	28.9	28.0	22.5	
D80	21.1	22.0	22.8	23.6	24.3	25.0	25.8	26.7	27.5	28.9	30.0	30.9	31.6	32.1	32.4	28.9	
D100	22.7	23.7	24.6	25.5	26.3	27.0	27.9	28.9	29.8	31.4	32.7	33.7	34.6	35.3	36.5	34.5	
D125	24.5	25.6	27.5	28.3	29.1	30.1	31.2	32.2	34.0	35.5	36.7	37.8	38.6	40.8	40.0		

NB: Refer to the Australian Standard AS2293.1-2005 for complete data.

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