

MCB RATINGS FOR LED LUMINAIRES

The following table details the maximum number of Thorlux LED type luminaires that can be connected to a circuit breaker for the given types B and C to BS EN 60898. The information is for guidance only. If in doubt, please consult the circuit breaker manufacturer. Thorlux can also provide more detailed information on a product by product basis if requested.

The table is applicable to LED luminaires only of the following types:

Non-dimming (product code suffix L)

DALI (product code suffix A)

Smart luminaires (product code suffixes D and SS)

The quantities shown per circuit breaker type are theoretical maximum quantities which take into account normal running and inrush/starting currents assuming normal supply impedances. The maximum number of luminaires is only one factor in relation to rating circuits. It is the installing contractor's responsibility to work to standards (for example in the UK - BS7671) and ensure all appropriate requirements are taken into consideration.

We do not recommend large quantities of luminaires are connected to one circuit breaker. It is good practise to keep quantities small, for example up to 8 luminaires per circuit, but this will vary depending upon site conditions and the wishes of the circuit designer.

Consideration should be given to avoidance of inconvenience if too many lights extinguish should a circuit breaker trip.

Please note that system current on LCM wiring, and Zipline wiring, and Light Line Continuous luminaires may have other limiting factors. Please see the appropriate installation instructions for those products.

Circuits may also be limited by the ratings of residual current devices (RCDs) if fitted. The maximum earth leakage per luminaire is normally limited to 1mA. To allow a safety margin, for circuit variation and residual current device tolerances, we recommend a maximum of 15 luminaires on a 30mA device.

Please do not hesitate to contact us for further information.

Technical Department

T +44 (0)1527 586 400

E technicalhelpline@thorlux.co.uk

The information given is typical and must not be interpreted as a guarantee of individual product performance and/or characteristics. We reserve the right to alter specifications and designs without prior notice.

Product	Wattage	Breaker			
		B10	B16	C10	C16
Ace-T	16	65	115	65	115
Ace-T	25	35	55	35	55
A-Line	41	9	14	18	28
A-Line	58	11	18	18	30
Canolux LED	116	3	6	6	10
Clara 180	10	21	34	35	57
Clara 180	20	21	34	35	57
Clara 360	20	21	34	35	57
Clara 720	52	7	12	12	20
Clara 720	59	6	11	11	20
Clara 720	80	7	12	12	20
Clara 720	100	7	12	12	20
Clara 90	10	21	34	35	57
Clara 90	20	21	34	35	57
Cleanline	26	9	14	18	28
Cleanline	38	9	14	18	28
Cobalt	15	17	27	28	45
Cobalt	18	21	34	35	57
Cobalt	23	30	48	50	80
Dot	14	60	100	60	100

Product	Wattage	Breaker			
		B10	B16	C10	C16
Dot	17	60	100	60	100
FGN LED Type 'n'	28	8	12	13	21
FGN LED Type 'n'	42	8	12	13	21
FGN LED Type 'n'	55	8	12	13	21
Flute	24	21	34	35	57
Flute	36	21	34	35	57
Folio	50	9	15	15	25
G2	6	13	24	26	48
G2	12	30	48	50	80
G3	8	25	40	41	68
G3	12	13	24	26	48
G3	16	25	40	41	68
G3	24	13	24	26	48
G4	16	8	14	14	23
G4	32	8	14	14	23
G4 Surface	16	21	34	35	57
G4 Surface	32	21	34	35	57
Glodome	16	65	115	65	115
Glodome	20	65	115	65	115
Glodome	26	9	14	18	28
GP Linear	46	11	18	18	30
Hi-liter	18	65	115	65	115
Hi-liter	26	35	55	35	55
High Dependency Linear	46	11	18	18	30
High Dependency Modular	112	4	7	7	11
Jubilee	18	15	24	25	40
Jubilee	21	15	24	25	40
Jubilee	30	15	24	25	40
Jubilee	31	15	24	25	40
Jubilee	43	11	18	18	30
Jubilee	51	11	18	18	30
Jubilee XL	18	15	24	25	40
Jubilee XL	21	15	24	25	40
Jubilee XL	30	15	24	25	40
Jubilee XL	31	15	24	25	40
Jubilee XL	43	11	18	18	30
Jubilee XL	51	11	18	18	30
Juno A	31	15	25	26	42
Juno A	52	15	25	26	42
Juno B	30	6	11	11	18
Juno B	60	6	11	11	18
Juno C	52	15	25	26	42
Juno C	78	15	25	26	42
Kanby LED Controller	21	17	28	29	47
Kanby LED Controller	28	8	13	13	22
Kanby LED Controller	37	8	13	13	22

Product	Wattage	Breaker			
		B10	B16	C10	C16
Kanby LED Controller	49	8	13	13	22
Kanby LED Controller	63	8	13	13	22
Kanby LED Mirror	22	15	24	25	40
Kanby LED Mirror	30	15	24	25	40
Kanby LED Mirror	52	11	18	18	30
LED Bay	116	3	6	6	10
LED Downlighters	6	31	50	52	85
LED Night Light	1.5	17	27	28	45
Medica	2 x 29	8	13	13	22
Medica	2 x 39	8	13	13	22
Mercian	28	21	34	35	57
Microdot	13	100	100	100	100
Mina-LT	18	65	115	65	115
Mina-LT	26	35	55	35	55
Mina-LT	28	35	55	35	55
Mina-LT	42	9	14	18	28
Mina-MT	14	65	115	65	115
Mina-MT	20	65	115	65	115
Mina-ST	3	17	27	28	45
Mina-ST	8	17	27	28	45
Passlight	24	11	18	18	30
Passlight	38	11	18	18	30
Plateau	20	16	26	27	44
Plateau	26	9	14	15	28
Plateau	38	9	14	18	28
Prismalette	11	21	34	35	57
Prismalette	16	21	34	35	57
Prismalette Pro	12	14	23	28	46
Prismalette Pro	16	14	23	28	46
Prismalux	20	11	18	18	30
Prismalux	32	11	18	18	30
Probe	24	21	34	35	57
Probe-XL	24	21	34	35	57
Radiance	16	60	100	60	100
Radiance	28	8	13	13	22
Radiance	38	8	13	13	22
Radiance	51	8	13	13	22
Realta	18	13	24	26	48
Realta	32	13	21	26	42
Realta Micro	3	31	50	52	85
Realta Micro	6	31	50	52	85
Sky-Dome	20	16	26	27	44
Sky-Dome	26	16	26	27	44
Sky-Dome	38	9	14	18	28
Solis 18W	18	65	115	65	115
Solis 2 x 18W (two circuits per luminaire)	2 x 18	35	55	35	55

Product	Wattage	Breaker			
		B10	B16	C10	C16
Solow LED	126	4	7	8	14
Solow LED	189	2	3	4	7
Solow LED	252	2	3	4	7
Solow XLED	65	6	16	12	24
Solow XLED	130	4	7	8	14
Solow XLED	190	2	3	4	7
Solow XLED	255	2	3	4	6
Starbeam	31	6	11	11	18
Starbeam	62	6	11	11	18
Starbeam	88	5	9	9	15
Starbeam	123	5	9	9	15
Starflood	20	10	20	20	40
Starflood	34	33	55	57	93
Starflood	42	25	50	33	66
Starguard	62	3	6	6	10
Starguard	140	3	6	6	10
Tau	26	16	26	27	44
Tau	38	16	26	27	44
Tau	52	16	26	27	44
Tau	76	16	26	27	44
Thorlux Light Line	24	17	28	29	47
Thorlux Light Line	31	8	13	13	22
Thorlux Light Line	42	8	13	13	22
Thorlux Light Line	49	8	13	13	22
Thorlux Light Line Integra	24	17	28	29	47
Thorlux Light Line Integra	31	8	13	13	22
Thorlux Light Line Integra	42	8	13	13	22
Thorlux Light Line Integra	49	8	13	13	22
Thoroproof	30	15	24	25	40
Thoroproof	60	15	24	25	40
Thorseal LED-Type 'n'	122	4	9	9	16
Thorseal LED-Type 'n'	244	3	5	5	9
Tora (per metre length)	15	12	19	20	34
Vandalux	34	15	24	25	40
Vandalux	74	11	18	18	30
Viva	16	16	26	27	44
Viva	21	9	14	18	28
Viva	36	9	14	18	28
XL-20	20	9	14	18	28
XL-20	29	9	14	18	28
XL-20	40	9	14	18	28
XL-Five Daylite	20	16	26	27	44
XL-Five Daylite	26	9	14	18	28
XL-Five Daylite	38	9	14	18	28
XL-Five Prismatic	20	16	26	27	44
XL-Five Prismatic	26	9	14	18	28

Product	Wattage	Breaker			
		B10	B16	C10	C16
XL-Five Prismatic	38	9	14	18	28
Zipline	22	12	20	15	27
Zipline	33	12	20	18	27
Zipline	41	12	20	18	27
Zipline	53	12	20	18	27
Zipline	64	12	20	18	27