

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 can be up to 3.5mA. Where possible we recommend not to use an RCD on lighting circuits, but this will be limited by the wiring regulations of the specific area. Contact Technical for further information on particular products.

Please do not hesitate to contact us for further information.

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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
Arcadian	21	17	28	29	47
Arcadian	31	15	24	24	40
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

Product	Wattage	Breaker			
		B10	B16	C10	C16
Cobalt	23	30	48	50	80
Comboseal	65	4	7	7	11
Comboseal	98	4	7	7	11
Comboseal	137	4	7	7	11
Comboseal Plus	171	1	3	3	5
Comboseal Plus	251	1	3	3	5
Comboseal Plus	326	1	3	3	5
Dot	14	60	100	60	100
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
Hi-Style	16	13	24	26	48
Hi-Style	24	13	24	26	48
Hi-Style	34	9	14	18	28
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

Product	Wattage	Breaker			
		B10	B16	C10	C16
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
Juno D	99	1	3	3	5
Juno D	132	1	3	3	5
Juno D	166	1	3	3	5
Juno D	177	1	3	3	5
Juno D	246	1	3	3	5
Juno D	326	1	3	3	5
Kanby LED Controller	21	17	28	29	47
Kanby LED Controller	28	8	13	13	22
Kanby LED Controller	37	8	13	13	22
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
Nemus	17	13	24	26	48
Nemus	26	9	14	18	28
Passlight	24	11	18	18	30
Passlight	38	11	18	18	30
Pitch - L	14	18	32	30	50
Pitch - L	20	18	32	30	50
Pitch - L	28	13	22	21	36
Pitch - L	35	13	21	21	35
Pitch - M	6	24	38	35	50

Product	Wattage	Breaker			
		B10	B16	C10	C16
Pitch - M	14	18	32	30	50
Pitch - M	20	18	32	30	50
Pivitz	14	18	32	30	50
Pivitz	20	18	32	30	50
Pivitz	28	13	22	21	36
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
Quadline	19	14	23	28	46
Quadline	38	9	14	18	28
Quadrum	17	13	24	26	48
Quadrum	26	9	14	18	28
Quadrum	41	9	14	18	28
R3	9	30	48	50	80
R3	18	30	48	50	80
R4	9	30	48	50	80
R4	18	30	48	50	80
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
Sero	14	13	24	26	48
Sero	20	13	24	26	48
Sero	28	9	14	18	28
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
Solis -L	1x20	13	24	26	48
Solis -L	1x28	9	14	18	28
Solis -L	1x35	9	14	18	28
Solis -L	2x20	6	12	13	24
Solis -L	2x28	4	7	9	14

Product	Wattage	Breaker			
		B10	B16	C10	C16
Solis -L	2x35	4	7	9	14
Solis -M	1x14	13	24	26	48
Solis -M	1x20	13	24	26	48
Solis -M	2x14	6	12	13	28
Solis -M	2x20	6	12	13	28
Solow LED	126	8	12	12	20
Solow LED	189	4	6	6	10
Solow LED	252	4	6	6	10
Solow XLED	65	4	7	8	14
Solow XLED	130	8	12	12	20
Solow XLED	190	2	3	4	7
Solow XLED	255	4	6	6	10
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	15	24	25	40
Tau	38	15	24	25	40
Tau	52	7	12	12	20
Tau	76	7	12	12	20
Tego	14	13	24	26	48
Tego	20	13	24	26	48
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
Thoroseal LED-Type 'n'	122	4	9	9	16
Thoroseal 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
Ventego	19	21	34	35	57
Ventego	56	7	12	12	20
Viva	16	16	26	27	44
Viva	21	9	14	18	28

Product	Wattage	Breaker			
		B10	B16	C10	C16
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
XL-Five Prismatic	38	9	14	18	28
Zenith - L	20	18	32	30	53
Zenith - L	28	13	22	21	36
Zenith - L	35	13	21	21	35
Zenith -M	14	18	32	30	53
Zenith -M	20	18	32	30	53
Zipline	22	12	20	15	27
Zipline	33	12	20	15	27
Zipline	41	12	20	15	27
Zipline	53	12	20	15	27
Zipline	64	12	20	15	27