

# 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.**

## Technical Department

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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
	25	35	55	35	55
A-Line	41	9	14	18	28
	58	11	18	18	30
Arcadian	21	17	28	29	47
	31	15	24	24	40
Canolux LED	116	3	6	6	10
Clara 180	10	21	34	35	57
	20	21	34	35	57
Clara 360	20	21	34	35	57
	52	7	12	12	20
Clara 720	59	6	11	11	20
	80	7	12	12	20
	100	7	12	12	20
Clara 90	10	21	34	35	57
	20	21	34	35	57
Cleanline	26	8	13	13	22
	38	8	13	13	22
Cobalt	15	17	27	28	45
	18	21	34	35	57
	23	30	48	50	80

Product	Wattage	Breaker			
		B10	B16	C10	C16
Comboseal	65	4	7	7	11
	98	4	7	7	11
	137	4	7	7	11
Comboseal Plus	171	1	3	3	5
	251	1	3	3	5
	326	1	3	3	5
Dot	14	60	100	60	100
	17	60	100	60	100
FGN LED Type 'n'	28	8	12	13	21
	42	8	12	13	21
	55	8	12	13	21
Flute	24	21	34	35	57
	36	21	34	35	57
Folio	50	9	15	15	25
G2	6	13	24	26	48
	12	30	48	50	80
G3	8	25	40	41	68
	12	13	24	26	48
	16	25	40	41	68
	24	13	24	26	48
G3 Pro	11	13	24	26	48
	24	9	14	18	28
	51	5	10	10	20
G4	16	8	14	14	23
	32	8	14	14	23
G4 Surface	16	21	34	35	57
	32	21	34	35	57
Glodome	16	65	115	65	115
	20	65	115	65	115
	26	9	14	18	28
GP Linear	46	11	18	18	30
Hi-Bar	17	10	20	20	40
	30	8	15	15	29
	45	4	7	8	14
	34	5	10	10	20
	60	4	7	7	14
	90	2	3	4	7
Hi-liter	18	65	115	65	115
	26	35	55	35	55
Hi-Style	16	13	24	26	48
	24	9	14	18	28
	34	9	14	18	28
High Dependency Linear	46	11	18	18	30
High Dependency Modular	112	4	7	7	11

Product	Wattage	Breaker			
		B10	B16	C10	C16
Hyline	23	9	14	18	28
	29	9	14	18	28
	37	9	14	18	28
Jubilee	18	15	24	24	40
	31	15	24	24	40
	21	4	7	8	14
	30	4	7	8	14
	43	15	24	24	40
	51	9	15	15	25
Jubilee XL	18	15	24	24	40
	31	15	24	24	40
	21	4	7	8	14
	30	4	7	8	14
	43	15	24	24	40
	51	9	15	15	25
Juno A	31	15	25	26	42
	52	15	25	26	42
Juno B	30	6	11	11	18
	60	6	11	11	18
Juno C	52	15	25	26	42
	78	15	25	26	42
Juno D	99	1	3	3	5
	132	1	3	3	5
	166	1	3	3	5
	177	1	3	3	5
	246	1	3	3	5
	326	1	3	3	5
Kanby EVO	15	18	28	30	46
	26	8	15	15	29
	22	13	21	21	35
	36	4	7	8	14
	43	4	7	8	14
Kanby LED Controller	21	17	28	29	47
	28	15	24	24	40
	37	15	24	24	40
	49	15	24	24	40
	63	8	13	13	22
Kanby LED Mirror	22	15	24	25	40
	30	15	24	25	40
	52	11	18	18	30
Kanby PRO	15	18	28	30	46
	26	8	15	15	29
	22	13	21	21	35
	36	4	7	8	14
	43	4	7	8	14

Product	Wattage	Breaker			
		B10	B16	C10	C16
Kanby ZIP	15	15	24	24	40
	22	13	21	21	35
	36	4	7	8	14
	43	4	7	8	14
	53	4	7	8	14
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
	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
	26	35	55	35	55
	28	35	55	35	55
	42	9	14	18	28
Mina-MT	14	65	115	65	115
	20	65	115	65	115
Mina-ST	3	17	27	28	45
	8	17	27	28	45
Nemus	17	13	24	26	48
	26	9	14	18	28
Passlight	24	11	18	18	30
	38	11	18	18	30
Pitch - L	14	18	32	30	50
	20	18	32	30	50
	28	13	22	21	36
	35	13	21	21	35
Pitch - M	6	24	38	35	50
	14	18	32	30	50
	20	18	32	30	50
Pivitz	14	18	32	30	50
	20	18	32	30	50
	28	13	22	21	36
Plateau	20	8	13	13	22
	26	8	13	13	22
	38	8	13	13	22
Prismalette	11	21	34	35	57
	16	21	34	35	57
Prismalette Pro	12	14	23	28	46
	16	14	23	28	46
Prismalux	20	11	18	18	30
	32	11	18	18	30
Probe	24	21	34	35	57
Probe-XL	24	21	34	35	57

Product	Wattage	Breaker			
		B10	B16	C10	C16
Quadline	19	14	23	28	46
	38	9	14	18	28
Quadrum	17	13	24	26	48
	26	9	14	18	28
	41	9	14	18	28
R3	9	30	48	50	80
R3	18	30	48	50	80
R4	9	30	48	50	80
	18	30	48	50	80
Radiance	16	18	30	31	51
	28	8	13	13	22
	38	8	13	13	22
	51	8	13	13	22
Realta	8	23	37	38	61
	20	14	23	28	46
	34	13	21	21	35
	42	13	21	21	35
Realta Micro	3	31	50	52	85
	6	31	50	52	85
Sero	14	13	24	26	48
	20	13	24	26	48
	28	9	14	18	28
Sky-Dome	20	8	13	13	22
	26	8	13	13	22
	38	8	13	13	22
	74	8	13	13	22
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
	1x28	9	14	18	28
	1x35	9	14	18	28
	2x20	6	12	13	24
	2x28	4	7	9	14
	2x35	4	7	9	14
Solis -M	1x14	13	24	26	48
	1x20	13	24	26	48
	2x14	6	12	13	28
	2x20	6	12	13	28
Solow LED	123	5	8	8	13
	189	6	11	11	18
	252	5	8	8	13

Product	Wattage	Breaker			
		B10	B16	C10	C16
Solow XLED	65	9	14	18	28
	112	7	12	12	20
	175	3	6	6	10
	190	2	3	4	7
	215	3	6	6	10
Solow XLED Opal	65	9	14	18	28
	112	7	12	12	20
	175	3	6	6	10
	190	2	3	4	7
	215	3	6	6	10
Starbeam	31	6	11	11	18
	62	6	11	11	18
	88	5	9	9	15
	123	5	9	9	15
Starflood	20	10	20	20	40
	34	33	55	57	93
	42	25	50	33	66
Starguard	62	3	6	6	10
	140	3	6	6	10
Tau	26	15	24	25	40
	38	15	24	25	40
	52	7	12	12	20
	76	7	12	12	20
Tego	14	13	24	26	48
	20	13	24	26	48
Thorlux Light Line	24	17	28	29	47
	31	15	24	24	40
	42	15	24	24	40
	49	15	24	24	40
Thorlux Light Line Integra	24	17	28	29	47
	31	8	13	13	22
	42	8	13	13	22
	49	8	13	13	22
Thoroproof	30	15	24	25	40
	60	15	24	25	40
Thoroseal LED-Type 'n'	122	4	9	9	16
	244	3	5	5	9
Tora (per metre length)	15	12	19	20	34
Vandalux	34	15	24	25	40
	74	11	18	18	30
Ventego	19	21	34	35	57
	56	7	12	12	20
Viva	16	13	24	26	48
	21	13	24	26	48
	36	8	13	13	22

Product	Wattage	Breaker			
		B10	B16	C10	C16
XL-20	20	9	14	18	28
	29	9	14	18	28
	40	9	14	18	28
XL-Five Daylite	20	16	26	27	44
	26	9	14	18	28
	38	9	14	18	28
XL-Five Prismatic	20	16	26	27	44
	26	9	14	18	28
	38	9	14	18	28
Zenith - L	20	18	32	30	53
	28	13	22	21	36
	35	13	21	21	35
Zenith -M	14	18	32	30	53
	20	18	32	30	53
Zipline	22	12	20	15	27
	33	12	20	15	27
	41	12	20	15	27
	53	12	20	15	27
	64	12	20	15	27