

## SERPENS LED

### Aluminium Profile Luminaires



#### Images for the product family and options:



#### Description:

A recessed medium profile LED luminaire for in-line connection without gaps  
Light distribution type: direct  
Optical system: opal polycarbonate diffuser/ matt micro-prismatic polycarbonate diffuser, low glare  
Housing: aluminium  
Colour: white (RAL9003)

#### General data:

Mains voltage: 220-240V, 0/50/60Hz  
LED lifetime, h: 100000/L80B50  
SDCM: 3  
Protection class IEC: I  
Ingress protection code: IP40 (IP44 optional)  
Mechanical impact resistance: IK05  
Glow wire test, °C: 650  
Operating temperature range, °C: ta -15...+35

#### Installation:

In ceilings with cut-out openings (mounting brackets included), with L/LL option is designed for in-line connection. Push-in terminal, 5x2x2.5mm<sup>2</sup>

#### Environment:

Indoor

#### Application:

Office, education, household, hotel, corridor, retail, public place

# TECHNICAL DATA SHEET

Product	Length, mm	Width, mm	Height, mm	Luminaire output*, lm	System power*, W	System efficacy*, lm/W	CRI*	CCT*, K	Weight, kg
Serpens LED1x850 G183 T830 OP LO1 SB	593	77	68	767	6,8	114	80+	3000	1,5
Serpens LED1x1100 G184 T830 OP LO2 SB	593	77	68	1046	9,6	109	80+	3000	1,5
Serpens LED1x1550 G185 T830 OP LO3 SB	593	77	68	1438	13,3	108	80+	3000	1,5
Serpens LED1x2300 J662 T830 OP LO4 SB	593	77	68	2157	18,9	114	80+	3000	1,5
Serpens LED1x1250 G186 T830 OP LO1 SB	873	77	68	1151	10,1	114	80+	3000	2
Serpens LED1x1650 G187 T830 OP LO2 SB	873	77	68	1569	13,6	115	80+	3000	2
Serpens LED1x2300 G188 T830 OP LO3 SB	873	77	68	2157	18,9	114	80+	3000	2
Serpens LED1x3400 J663 T830 OP LO4 SB	873	77	68	3234	28,7	113	80+	3000	2
Serpens LED1x1650 G189 T830 OP LO1 SB	1153	77	68	1535	12,7	121	80+	3000	2,5
Serpens LED1x2200 G190 T830 OP LO2 SB	1153	77	68	2092	17,1	122	80+	3000	2,5
Serpens LED1x3050 G191 T830 OP LO3 SB	1153	77	68	2875	24,7	117	80+	3000	2,5
Serpens LED1x4550 J664 T830 OP LO4 SB	1153	77	68	4313	38,6	112	80+	3000	2,5
Serpens LED1x2050 G192 T830 OP LO1 SB	1433	77	68	1919	15,9	121	80+	3000	2,9
Serpens LED1x2750 G193 T830 OP LO2 SB	1433	77	68	2614	21,4	122	80+	3000	2,9
Serpens LED1x3800 G194 T830 OP LO3 SB	1433	77	68	3594	30,8	117	80+	3000	2,9
Serpens LED1x5650 J665 T830 OP LO4 SB	1433	77	68	5391	47,8	113	80+	3000	2,9
Serpens LED1x2450 G195 T830 OP LO1 SB	1713	77	68	2302	18	128	80+	3000	3,4
Serpens LED1x3300 G196 T830 OP LO2 SB	1713	77	68	3137	25,2	124	80+	3000	3,4
Serpens LED1x4550 G197 T830 OP LO3 SB	1713	77	68	4313	37	117	80+	3000	3,4
Serpens LED1x6800 J666 T830 OP LO4 SB	1713	77	68	6469	56,7	114	80+	3000	3,4
Serpens LED1x2850 G198 T830 OP LO1 SB	1993	77	68	2686	21	128	80+	3000	4
Serpens LED1x3850 G199 T830 OP LO2 SB	1993	77	68	3660	29,3	125	80+	3000	4
Serpens LED1x5300 G200 T830 OP LO3 SB	1993	77	68	5032	43,2	117	80+	3000	4
Serpens LED1x8500 J667 T830 OP LO4 SB	2133	77	68	8086	70,1	115	80+	3000	4,2
Serpens LED1x3250 G201 T830 OP LO1 SB	2273	77	68	3070	23,5	131	80+	3000	4,3
Serpens LED1x4400 G202 T830 OP LO2 SB	2273	77	68	4183	33,6	125	80+	3000	4,3
Serpens LED1x6050 G203 T830 OP LO3 SB	2273	77	68	5750	48,7	118	80+	3000	4,3
Serpens LED1x9050 J668 T830 OP LO4 SB	2273	77	68	8625	77,3	112	80+	3000	4,3
Serpens LED1x3650 G204 T830 OP LO1 SB	2553	77	68	3454	26,4	131	80+	3000	5,4
Serpens LED1x4950 G205 T830 OP LO2 SB	2553	77	68	4706	37,7	125	80+	3000	5,4
Serpens LED1x6800 G206 T830 OP LO3 SB	2553	77	68	6469	54,8	118	80+	3000	5,4
Serpens LED1x10200 J669 T830 OP LO4 SB	2553	77	68	9704	83,2	117	80+	3000	5,4
Serpens LED1x4250 G207 T830 OP LO1 SB	2973	77	68	4029	30,9	131	80+	3000	5,8
Serpens LED1x5750 G208 T830 OP LO2 SB	2973	77	68	5490	44	125	80+	3000	5,8
Serpens LED1x7950 G209 T830 OP LO3 SB	2973	77	68	7547	64	118	80+	3000	5,8
Serpens LED1x850 G183 T840 OP LO1 SB	593	77	68	803	6,8	119	80+	4000	1,5
Serpens LED1x1100 G184 T840 OP LO2 SB	593	77	68	1095	9,6	114	80+	4000	1,5
Serpens LED1x1550 G185 T840 OP LO3 SB	593	77	68	1505	13,3	113	80+	4000	1,5
Serpens LED1x2300 J662 T840 OP LO4 SB	593	77	68	2258	18,9	119	80+	4000	1,5
Serpens LED1x1250 G186 T840 OP LO1 SB	873	77	68	1206	10,1	119	80+	4000	2
Serpens LED1x1650 G187 T840 OP LO2 SB	873	77	68	1642	13,6	120	80+	4000	2
Serpens LED1x2300 G188 T840 OP LO3 SB	873	77	68	2258	18,9	120	80+	4000	2
Serpens LED1x3400 J663 T840 OP LO4 SB	873	77	68	3387	28,7	118	80+	4000	2
Serpens LED1x1650 G189 T840 OP LO1 SB	1153	77	68	1607	12,7	126	80+	4000	2,5
Serpens LED1x2200 G190 T840 OP LO2 SB	1153	77	68	2190	17,1	128	80+	4000	2,5
Serpens LED1x3050 G191 T840 OP LO3 SB	1153	77	68	3010	24,7	122	80+	4000	2,5
Serpens LED1x4550 J664 T840 OP LO4 SB	1153	77	68	4516	38,6	117	80+	4000	2,5
Serpens LED1x2050 G192 T840 OP LO1 SB	1433	77	68	2009	15,9	126	80+	4000	2,9
Serpens LED1x2750 G193 T840 OP LO2 SB	1433	77	68	2737	21,4	128	80+	4000	2,9
Serpens LED1x3800 G194 T840 OP LO3 SB	1433	77	68	3763	30,8	122	80+	4000	2,9
Serpens LED1x5650 J665 T840 OP LO4 SB	1433	77	68	5645	47,8	118	80+	4000	2,9
Serpens LED1x2450 G195 T840 OP LO1 SB	1713	77	68	2410	18	134	80+	4000	3,4
Serpens LED1x3300 G196 T840 OP LO2 SB	1713	77	68	3285	25,2	130	80+	4000	3,4
Serpens LED1x4550 G197 T840 OP LO3 SB	1713	77	68	4516	37	122	80+	4000	3,4
Serpens LED1x6800 J666 T840 OP LO4 SB	1713	77	68	6773	56,7	119	80+	4000	3,4
Serpens LED1x2850 G198 T840 OP LO1 SB	1993	77	68	2812	21	134	80+	4000	4
Serpens LED1x3850 G199 T840 OP LO2 SB	1993	77	68	3832	29,3	131	80+	4000	4
Serpens LED1x5300 G200 T840 OP LO3 SB	1993	77	68	5268	43,2	122	80+	4000	4
Serpens LED1x8500 J667 T840 OP LO4 SB	2133	77	68	8466	70,1	121	80+	4000	4,2
Serpens LED1x3250 G201 T840 OP LO1 SB	2273	77	68	3214	23,5	137	80+	4000	4,3
Serpens LED1x4400 G202 T840 OP LO2 SB	2273	77	68	4380	33,6	130	80+	4000	4,3
Serpens LED1x6050 G203 T840 OP LO3 SB	2273	77	68	6021	48,7	124	80+	4000	4,3
Serpens LED1x9050 J668 T840 OP LO4 SB	2273	77	68	9030	77,3	117	80+	4000	4,3
Serpens LED1x3650 G204 T840 OP LO1 SB	2553	77	68	3616	26,4	137	80+	4000	5,4
Serpens LED1x4950 G205 T840 OP LO2 SB	2553	77	68	4927	37,7	131	80+	4000	5,4
Serpens LED1x6800 G206 T840 OP LO3 SB	2553	77	68	6773	54,8	124	80+	4000	5,4
Serpens LED1x10200 J669 T840 OP LO4 SB	2553	77	68	10159	83,2	122	80+	4000	5,4
Serpens LED1x4250 G207 T840 OP LO1 SB	2973	77	68	4219	30,9	137	80+	4000	5,8
Serpens LED1x5750 G208 T840 OP LO2 SB	2973	77	68	5748	44	131	80+	4000	5,8
Serpens LED1x7950 G209 T840 OP LO3 SB	2973	77	68	7902	64	124	80+	4000	5,8

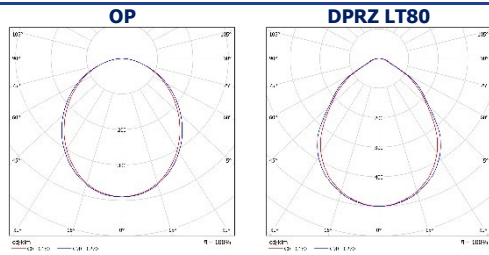
# TECHNICAL DATA SHEET

Product	Length, mm	Width, mm	Height, mm	Luminaire output*, lm	System power*, W	System efficacy*, lm/W	CRI*	CCT*, K	Weight, kg
Serpens LED1x750 G183 T830 DPRZ LT80 L01 SB	593	77	68	670	6,8	99	80+	3000	1,5
Serpens LED1x1000 G184 T830 DPRZ LT80 L02 SB	593	77	68	914	9,6	95	80+	3000	1,5
Serpens LED1x1350 G185 T830 DPRZ LT80 L03 SB	593	77	68	1256	13,3	94	80+	3000	1,5
Serpens LED1x2000 J662 T830 DPRZ LT80 L04 SB	593	77	68	1884	18,9	100	80+	3000	1,5
Serpens LED1x1100 G186 T830 DPRZ LT80 L01 SB	873	77	68	1005	10,1	99	80+	3000	2
Serpens LED1x1450 G187 T830 DPRZ LT80 L02 SB	873	77	68	1370	13,6	100	80+	3000	2
Serpens LED1x2000 G188 T830 DPRZ LT80 L03 SB	873	77	68	1884	18,9	100	80+	3000	2
Serpens LED1x3000 J663 T830 DPRZ LT80 L04 SB	873	77	68	2825	28,7	98	80+	3000	2
Serpens LED1x1450 G189 T830 DPRZ LT80 L01 SB	1153	77	68	1341	12,7	106	80+	3000	2,5
Serpens LED1x1950 G190 T830 DPRZ LT80 L02 SB	1153	77	68	1827	17,1	107	80+	3000	2,5
Serpens LED1x2650 G191 T830 DPRZ LT80 L03 SB	1153	77	68	2511	24,7	102	80+	3000	2,5
Serpens LED1x3950 J664 T830 DPRZ LT80 L04 SB	1153	77	68	3767	38,6	98	80+	3000	2,5
Serpens LED1x1800 G192 T830 DPRZ LT80 L01 SB	1433	77	68	1676	15,9	106	80+	3000	2,9
Serpens LED1x2400 G193 T830 DPRZ LT80 L02 SB	1433	77	68	2283	21,4	106	80+	3000	2,9
Serpens LED1x3300 G194 T830 DPRZ LT80 L03 SB	1433	77	68	3139	30,8	102	80+	3000	2,9
Serpens LED1x4950 J665 T830 DPRZ LT80 L04 SB	1433	77	68	4709	47,8	99	80+	3000	2,9
Serpens LED1x2150 G195 T830 DPRZ LT80 L01 SB	1713	77	68	2011	18	112	80+	3000	3,4
Serpens LED1x2900 G196 T830 DPRZ LT80 L02 SB	1713	77	68	2740	25,2	109	80+	3000	3,4
Serpens LED1x3950 G197 T830 DPRZ LT80 L03 SB	1713	77	68	3767	37	102	80+	3000	3,4
Serpens LED1x5950 J666 T830 DPRZ LT80 L04 SB	1713	77	68	5650	56,7	100	80+	3000	3,4
Serpens LED1x2500 G198 T830 DPRZ LT80 L01 SB	1993	77	68	2346	21	112	80+	3000	4
Serpens LED1x3350 G199 T830 DPRZ LT80 L02 SB	1993	77	68	3197	29,3	109	80+	3000	4
Serpens LED1x4650 G200 T830 DPRZ LT80 L03 SB	1993	77	68	4395	43,2	102	80+	3000	4
Serpens LED1x7400 J667 T830 DPRZ LT80 L04 SB	2133	77	68	7063	70,1	101	80+	3000	4,2
Serpens LED1x2850 G201 T830 DPRZ LT80 L01 SB	2273	77	68	2681	23,5	114	80+	3000	4,3
Serpens LED1x3850 G202 T830 DPRZ LT80 L02 SB	2273	77	68	3654	33,6	109	80+	3000	4,3
Serpens LED1x5300 G203 T830 DPRZ LT80 L03 SB	2273	77	68	5022	48,7	103	80+	3000	4,3
Serpens LED1x7900 J668 T830 DPRZ LT80 L04 SB	2273	77	68	7533	77,3	97	80+	3000	4,3
Serpens LED1x3200 G204 T830 DPRZ LT80 L01 SB	2553	77	68	3016	26,4	114	80+	3000	5,4
Serpens LED1x4350 G205 T830 DPRZ LT80 L02 SB	2553	77	68	4110	37,7	109	80+	3000	5,4
Serpens LED1x5950 G206 T830 DPRZ LT80 L03 SB	2553	77	68	5650	54,8	103	80+	3000	5,4
Serpens LED1x8900 J669 T830 DPRZ LT80 L04 SB	2553	77	68	8475	83,2	102	80+	3000	5,4
Serpens LED1x3700 G207 T830 DPRZ LT80 L01 SB	2973	77	68	3519	30,9	114	80+	3000	5,8
Serpens LED1x5050 G208 T830 DPRZ LT80 L02 SB	2973	77	68	4795	44	109	80+	3000	5,8
Serpens LED1x6950 G209 T830 DPRZ LT80 L03 SB	2973	77	68	6592	64	103	80+	3000	5,8
Serpens LED1x750 G183 T840 DPRZ LT80 L01 SB	593	77	68	702	6,8	104	80+	4000	1,5
Serpens LED1x1000 G184 T840 DPRZ LT80 L02 SB	593	77	68	956	9,6	99	80+	4000	1,5
Serpens LED1x1350 G185 T840 DPRZ LT80 L03 SB	593	77	68	1314	13,3	99	80+	4000	1,5
Serpens LED1x2000 J662 T840 DPRZ LT80 L04 SB	593	77	68	1972	18,9	104	80+	4000	1,5
Serpens LED1x1100 G186 T840 DPRZ LT80 L01 SB	873	77	68	1053	10,1	104	80+	4000	2
Serpens LED1x1450 G187 T840 DPRZ LT80 L02 SB	873	77	68	1435	13,6	105	80+	4000	2
Serpens LED1x2000 G188 T840 DPRZ LT80 L03 SB	873	77	68	1972	18,9	104	80+	4000	2
Serpens LED1x3000 J663 T840 DPRZ LT80 L04 SB	873	77	68	2958	28,7	103	80+	4000	2
Serpens LED1x1450 G189 T840 DPRZ LT80 L01 SB	1153	77	68	1403	12,7	110	80+	4000	2,5
Serpens LED1x1950 G190 T840 DPRZ LT80 L02 SB	1153	77	68	1913	17,1	112	80+	4000	2,5
Serpens LED1x2650 G191 T840 DPRZ LT80 L03 SB	1153	77	68	2629	24,7	107	80+	4000	2,5
Serpens LED1x3950 J664 T840 DPRZ LT80 L04 SB	1153	77	68	3944	38,6	102	80+	4000	2,5
Serpens LED1x1800 G192 T840 DPRZ LT80 L01 SB	1433	77	68	1755	15,9	110	80+	4000	2,9
Serpens LED1x2400 G193 T840 DPRZ LT80 L02 SB	1433	77	68	2391	21,4	111	80+	4000	2,9
Serpens LED1x3300 G194 T840 DPRZ LT80 L03 SB	1433	77	68	3286	30,8	107	80+	4000	2,9
Serpens LED1x4950 J665 T840 DPRZ LT80 L04 SB	1433	77	68	4930	47,8	103	80+	4000	2,9
Serpens LED1x2150 G195 T840 DPRZ LT80 L01 SB	1713	77	68	2105	18	117	80+	4000	3,4
Serpens LED1x2900 G196 T840 DPRZ LT80 L02 SB	1713	77	68	2869	25,2	114	80+	4000	3,4
Serpens LED1x3950 G197 T840 DPRZ LT80 L03 SB	1713	77	68	3944	37	107	80+	4000	3,4
Serpens LED1x5950 J666 T840 DPRZ LT80 L04 SB	1713	77	68	5915	56,7	104	80+	4000	3,4
Serpens LED1x2500 G198 T840 DPRZ LT80 L01 SB	1993	77	68	2456	21	117	80+	4000	4
Serpens LED1x3350 G199 T840 DPRZ LT80 L02 SB	1993	77	68	3347	29,3	114	80+	4000	4
Serpens LED1x4650 G200 T840 DPRZ LT80 L03 SB	1993	77	68	4601	43,2	107	80+	4000	4
Serpens LED1x7400 J667 T840 DPRZ LT80 L04 SB	2133	77	68	7395	70,1	105	80+	4000	4,2
Serpens LED1x2850 G201 T840 DPRZ LT80 L01 SB	2273	77	68	2807	23,5	120	80+	4000	4,3
Serpens LED1x3850 G202 T840 DPRZ LT80 L02 SB	2273	77	68	3825	33,6	114	80+	4000	4,3
Serpens LED1x5300 G203 T840 DPRZ LT80 L03 SB	2273	77	68	5258	48,7	108	80+	4000	4,3
Serpens LED1x7900 J668 T840 DPRZ LT80 L04 SB	2273	77	68	7887	77,3	102	80+	4000	4,3
Serpens LED1x3200 G204 T840 DPRZ LT80 L01 SB	2553	77	68	3158	26,4	120	80+	4000	5,4
Serpens LED1x4350 G205 T840 DPRZ LT80 L02 SB	2553	77	68	4304	37,7	114	80+	4000	5,4
Serpens LED1x5950 G206 T840 DPRZ LT80 L03 SB	2553	77	68	5915	54,8	108	80+	4000	5,4
Serpens LED1x8900 J669 T840 DPRZ LT80 L04 SB	2553	77	68	8873	83,2	107	80+	4000	5,4
Serpens LED1x3700 G207 T840 DPRZ LT80 L01 SB	2973	77	68	3685	30,9	119	80+	4000	5,8
Serpens LED1x5050 G208 T840 DPRZ LT80 L02 SB	2973	77	68	5020	44	114	80+	4000	5,8
Serpens LED1x6950 G209 T840 DPRZ LT80 L03 SB	2973	77	68	6901	64	108	80+	4000	5,8

\*Tolerance range for optical and electrical data: ±10%. Values apply to an ambient temperature of 25°C. NORTHCLIFFE LIGHTING is constantly developing and improving its products. The right is reserved to change any product specifications without prior notification



# TECHNICAL DATA SHEET



## Available options:

T830	Colour temperature 3000K, CRI 80+
T840	Colour temperature 4000K, CRI 80+
OP	Opal diffuser with high light transmittance
DPRZ LT80	De-glaring micro-prismatic diffuser with matt light scattering layer
LO1	Light output level 1
LO2	Light output level 2
LO3	Light output level 3
LO4	Light output level 4
DALI	Driver with DALI interface and switch-control dimming
<i>*note - for DALI LIN option wires are 2x0.5mm<sup>2</sup></i>	
EAIRB	Integrated smart sensor and driver with wireless communication and grouping possibilities for lighting control
<i>*note - ingress protection IP20</i>	
TW	Integrated light source and driver for Tuneable white control 2700-6500 K
<i>*note - Please ask for special models with options EAIRB, ACT+ and TW.</i>	
<i>*note - For options EAIRB, EAIRB-M and ACT+ luminaire housing is 65mm longer</i>	
<i>*note - the EAIRB, EAIRB-M and ACT+ sensors are positioned in the end of the luminaire for lengths up to 1800mm, and in the middle of the luminaire for lengths over 1800mm</i>	
EM3	Emergency version 3 hours
EM3B	Emergency version 3 hours (best available technology)

EM3A	Emergency version equipped with an autonomous testing system, 3 hours
EM3D	Emergency version 3 hours with DALI interface
<i>*note - EM options applicable for models longer than 1000mm</i>	
<i>*note - Operating temperature range for Luminaires with EM option, C: ta 0... +35</i>	
5TB	5-pole terminal block in middle of luminaire for easy through wiring
1LIN	Through wiring 3x1.5 mm <sup>2</sup> with two push-in terminal blocks
3LIN	Through wiring 5x1.5 mm <sup>2</sup> with two push-in terminal blocks
<i>*note - LIN options applicable for models longer than 800mm, for shorter models 5TB option</i>	
2G	Strain relief for power supply cable, 2pcs
L	for in-line connection end/first luminaire (lengths: 576/ 856/ 1136/ 1416/ 1696/ 1976/ 2116/ 2256/ 2536/ 2956 mm)
LL	for in-line connection intermediate luminaire (lengths: 562/ 842/ 1122/ 1402/ 1682/ 1962/ 2102/ 2242/ 2522/ 2942 mm)
<i>*note - for L and LL models joint kit and 1LIN option included (5TB option for lengths up to 800mm)</i>	
SB	Support brackets for installation into a plasterboard ceiling
<i>*note - SB option included</i>	
IP44	IP44 protection degree (not applicable for L and LL type luminaires)
<i>*note - IP44 option not applicable for L and LL models</i>	
RAL	RAL colour

## Applications:

