



Your partner in lighting technology

LIGHTING

Product Brochure



2019

SONIC LED

Batten Series

LED T8 Bare Batten Series



*Optional change to "SJ Lite LED Tube" or "SJ Lite Eco LED Glass Tube".

Model	SJ Lite LED Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SB 1A 120	1x8.5W	850	830/840	615	41	56
SB 2A 220	2x8.5W	1700		615	100	56
SB 1C 140	1x18W	2100	/865	1225	41	56
SB 2C 240	2x18W	4200		1225	100	56
SB 1D 158	1x22W	2400		1525	54	56
SB 2D 258	2x22W	4800		1525	100	56

Model	SJ Lite ECO LED Glass Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SB 1A 120	1x9W	900	830/840	615	41	56
SB 2A 220	2x9W	1800		615	100	56
SB 1C 140	1x18W	1800	/865	1225	41	56
SB 2C 240	2x18W	3600		1225	100	56



LED T8 Bare Batten Series



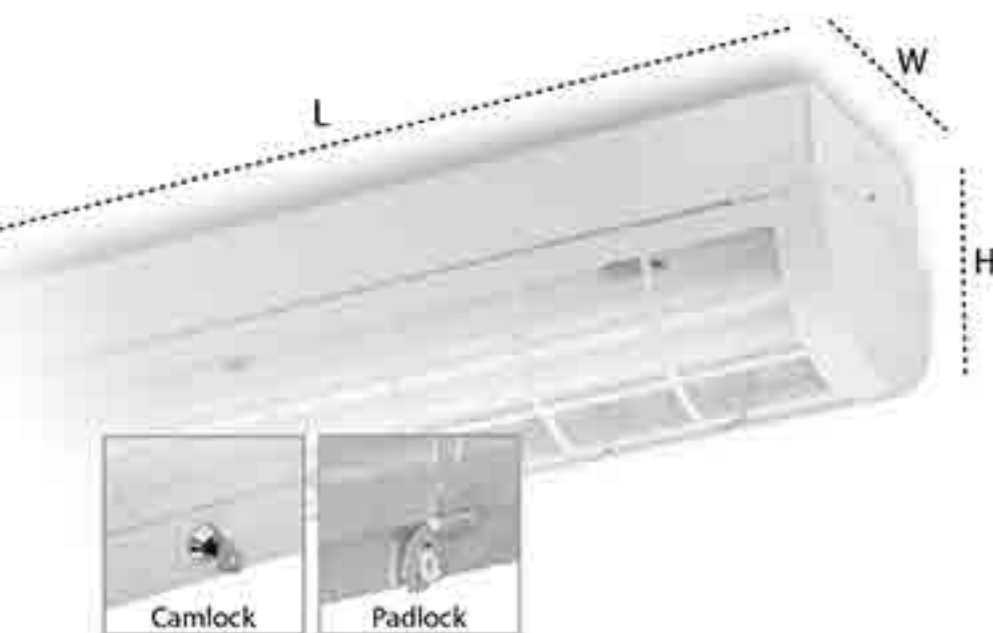
*Optional change to "SJ Lite LED Tube" or "SJ Lite Eco LED Glass Tube".

SJ Lite ECO LED Glass Tube

Model	SJ Lite ECO LED Glass Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SFB2 1A 120	1x9W	900	830/840	614	51	61
SFB2 2A 220	2x9W	1800		614	100	66
SFB2 1C 140	1x18W	1800	/865	1223	51	61
SFB2 2C 240	2x18W	3600		1223	100	66



LED T8 Vandal Proof Series



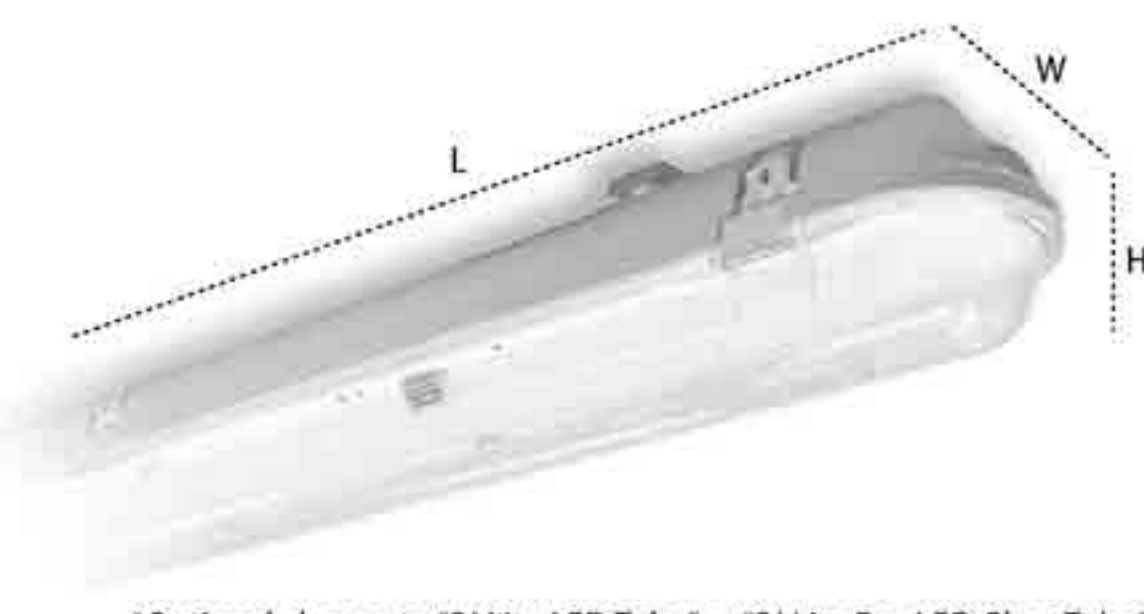
*Optional change to "SJ Lite LED Tube" or "SJ Lite Eco LED Glass Tube".

Model	SJ Lite LED Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SWG 1A 120(Cam)	1x8.5W	850	830/840/865	614	51	61
SWG 1A 120(Pad)	1x8.5W	850		614	51	61
SWG 2A 220(Cam)	2x18W	1700	/865	614	100	66
SWG 2A 220(Pad)	2x18W	1700		614	100	66
SWG 1C 140(Cam)	1x18W	2100		1223	51	61
SWG 1C 140(Pad)	1x18W	2100		1223	51	61
SWG 2C 240(Cam)	2x18W	4200		1223	100	66
SWG 2C 240(Pad)	2x18W	4200		1223	100	66

Model	SJ Lite ECO LED Glass Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SWG 1A 120(Cam)	1x9W	900	830/840/865	614	51	61
SWG 1A 120(Pad)	1x9W	900		614	51	61
SWG 2A 220(Cam)	2x9W	1800	/865	614	100	66
SWG 2A 220(Pad)	2x9W	1800		614	100	66
SWG 1C 140(Cam)	1x18W	1800		1223	51	61
SWG 1C 140(Pad)	1x18W	1800		1223	51	61
SWG 2C 240(Cam)	2x18W	3600		1223	100	66
SWG 2C 240(Pad)	2x18W	3600		1223	100	66



LED T8 Weatherproof Series



*Optional change to "SJ Lite LED Tube" or "SJ Lite Eco LED Glass Tube".

Model	SJ Lite LED Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SCR 1A 120	1x8.5W	850	830/840/865	660	85	87
SCR 2A 220	2x8.5W	1700		660	134	87
SCR 1C 140	1x18W	2100		1269	85	87
SCR 2C 240	2x18W	4200		1269	134	87

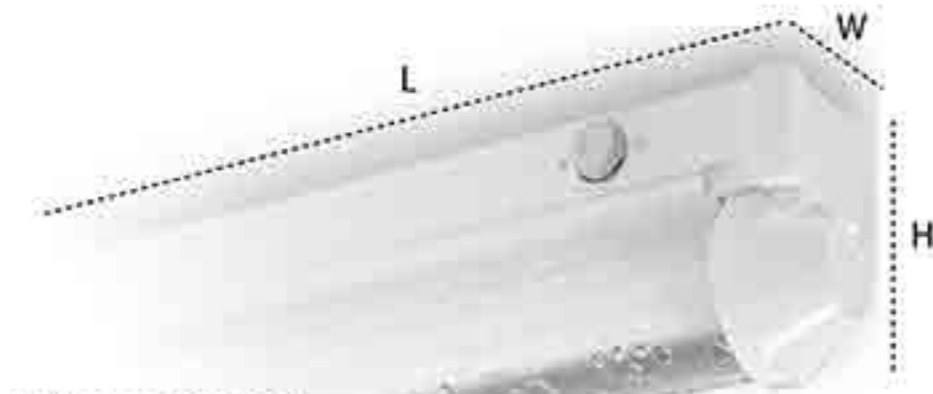
Model	SJ Lite ECO LED Glass Tube					
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SCR 1A 120	1x9W	900	830/840/865	660	85	87
SCR 2A 220	2x9W	1800		660	134	87
SCR 1C 140	1x18W	1800		1269	85	87
SCR 2C 240	2x18W	3600		1269	134	87



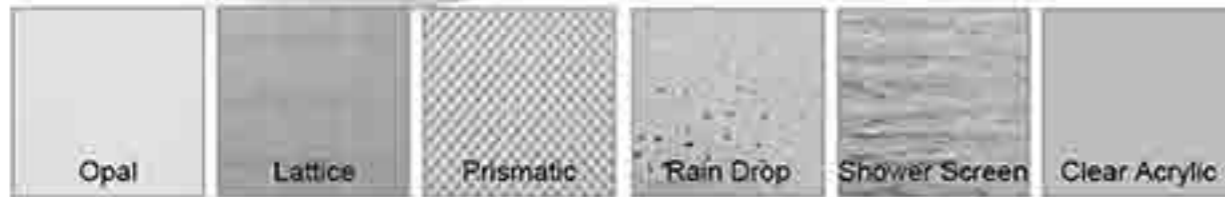
SONIC LED

Batten Series

LED T8 Diffused Batten Series



Diffuser Option



*Optional change to "SJ Lite LED Tube" or "SJ Lite Eco LED Glass Tube".

SJ Lite LED Tube

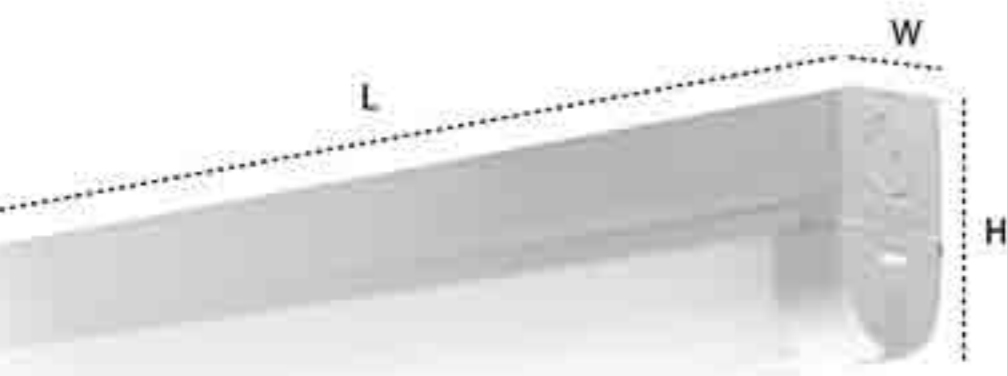
Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SD 1A 120	1x8.5W	850	830/	615	41	56
SD 2A 220	2x8.5W	1700	840/	615	100	56
SD 1C 140	1x18W	2100	865	1225	41	56
SD 2C 240	2x18W	4200		1225	100	56

SJ Lite Eco LED Glass Tube

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SD 1A 120	1x9W	900		615	41	56
SD 2A 220	2x9W	1800	830/840	615	100	56
SD 1C 140	1x18W	1800	/865	1225	41	56
SD 2C 240	2x18W	3600		1225	100	56



LED Linear Diffused Batten Series



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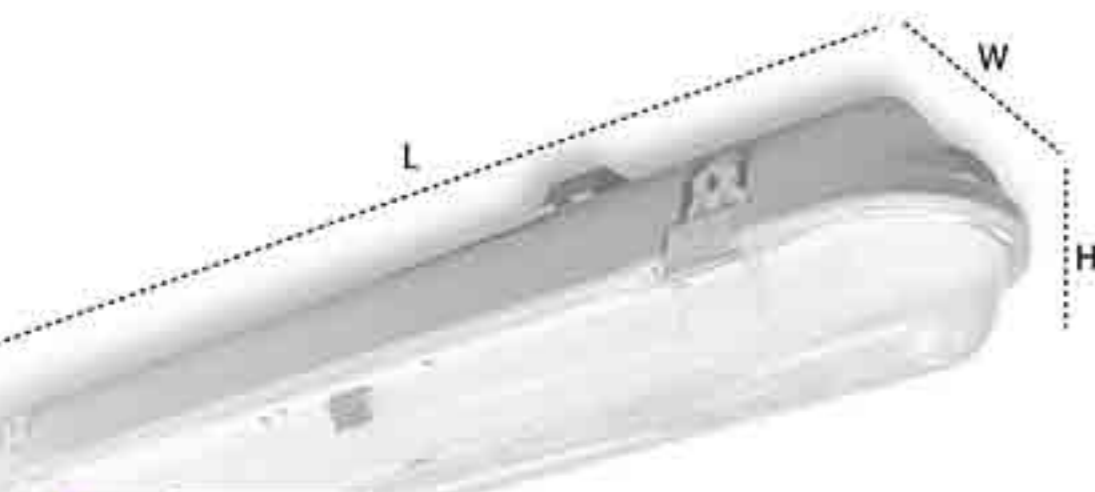
TRIDONIC

OSRAM

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SFS A5 (2ft)	10	1100		622	39	66
SFS A5 (4ft)	24	2750	830/840	1212	39	66
SFS A5 (2ft)	22	2150	/865	622	39	66
SFS A5 (4ft)	42	4400		1212	39	66



LED Weatherproof Series



PHILIPS

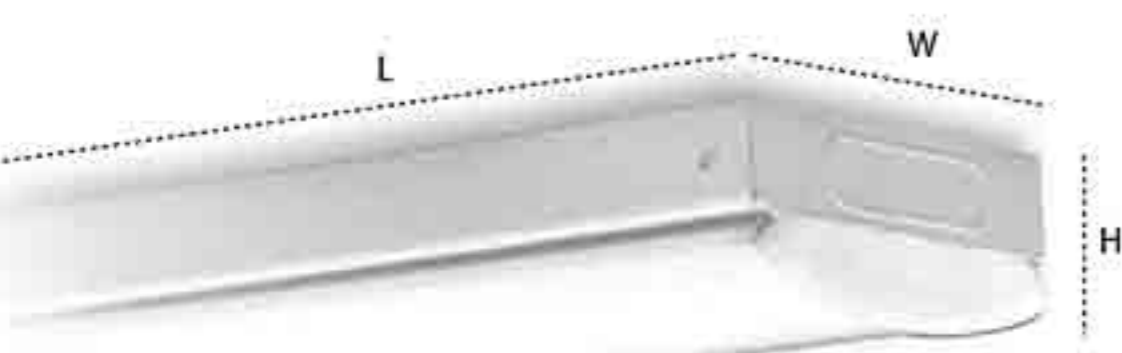
TRIDONIC

OSRAM

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SCR A4 120	12	1250		660	85	87
SCR A4 120	17	1800		660	85	87
SCR B4 220	23	2450		660	134	87
SCR B4 220	34	3450	830/840	660	134	87
SCR B4 140	23	2550	/865	1269	85	87
SCR B4 140	33	3600		1269	85	87
SCR D4 240	46	5050		1269	134	87
SCR D4 240	68	7250		1269	134	87



LED Green Batten Series



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TRIDONIC

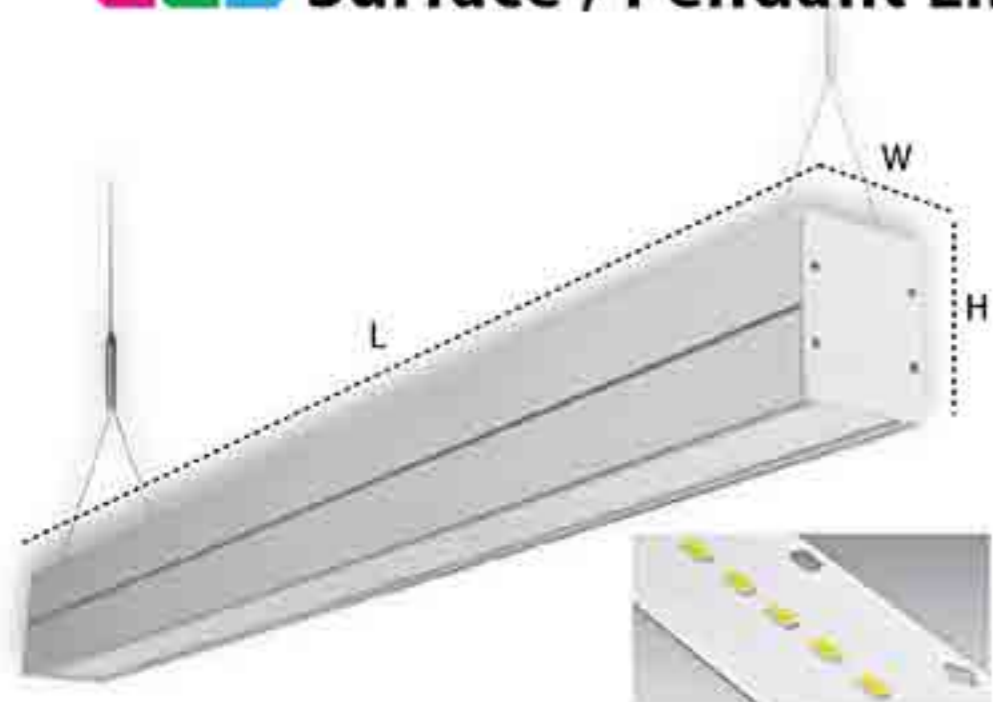
OSRAM

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SGB B4 (2ft)	23	2400		605	150	56
SGB B4 (2ft)	34	3400	830/840	605	150	56
SGB D4 (4ft)	46	4700	/865	1176	150	56
SGB D4 (4ft)	68	6500		1176	150	56



ECILPSE LED Linear Trunking Series

LED Surface / Pendant Linear Trunking Series (Extruded Aluminium)

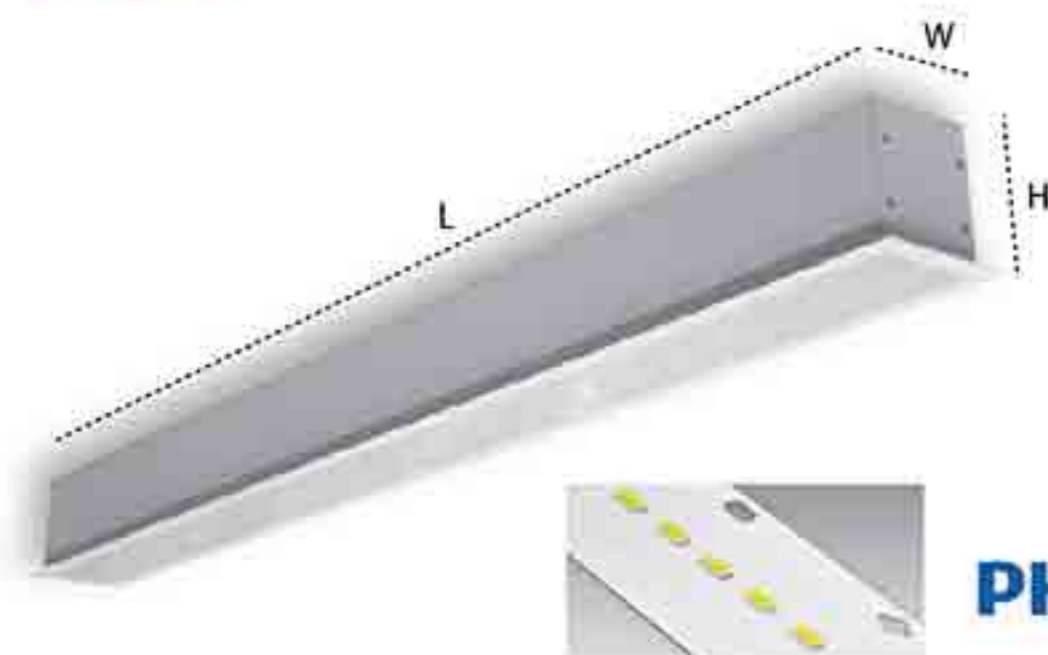


Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SEF A4	12	1250		568	80	100
SEF A4	17	1800	830/840	568	80	100
SEF B4	23	2550	/865	1128	80	100
SEF B4	34	3550		1128	80	100

PHILIPS TRIDONIC OSRAM



LED Recessed Linear Trunking Series (Extruded Aluminium)

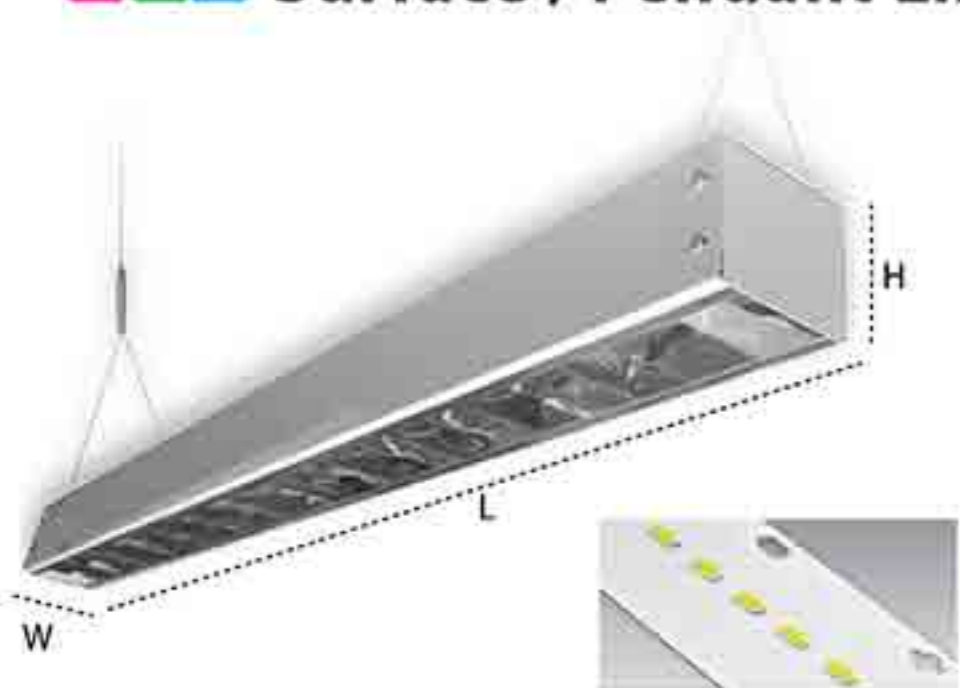


Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SEF A4 Recessed	12	1250		581	105	100
SEF A4 Recessed	17	1800	830/840	581	105	100
SEF B4 Recessed	23	2550	/865	1154	104	100
SEF B4 Recessed	34	3550		1154	104	100

PHILIPS TRIDONIC OSRAM



LED Surface / Pendant Linear Trunking Series (Metal)



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SCF A4	12	1286		564	91	81
SCF A4	17	1826		564	91	81
SCF B4	23	2580		1124	91	81
SCF B4	34	3652	830/840	1124	91	81
SCF A4 VDU	12	992	/865	564	91	81
SCF A4 VDU	17	1408		564	91	81
SCF B4 VDU	23	1984		1124	91	81
SCF B4 VDU	34	2816		1124	91	81

PHILIPS TRIDONIC OSRAM



LED Surface / Pendant Linear Trunking Series (Extruded Aluminium)



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SEC B4	23	2350	830/840	1128	160	70
SEC B4	34	3350	/865	1128	160	70

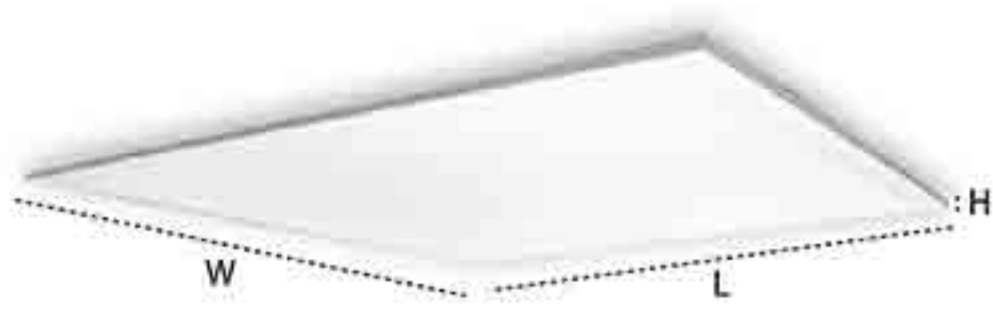
PHILIPS TRIDONIC OSRAM





AURORAS LED Linear Diffused Series

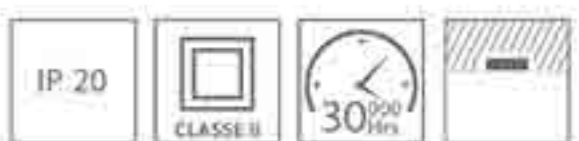
LED Slim Panel Light Series



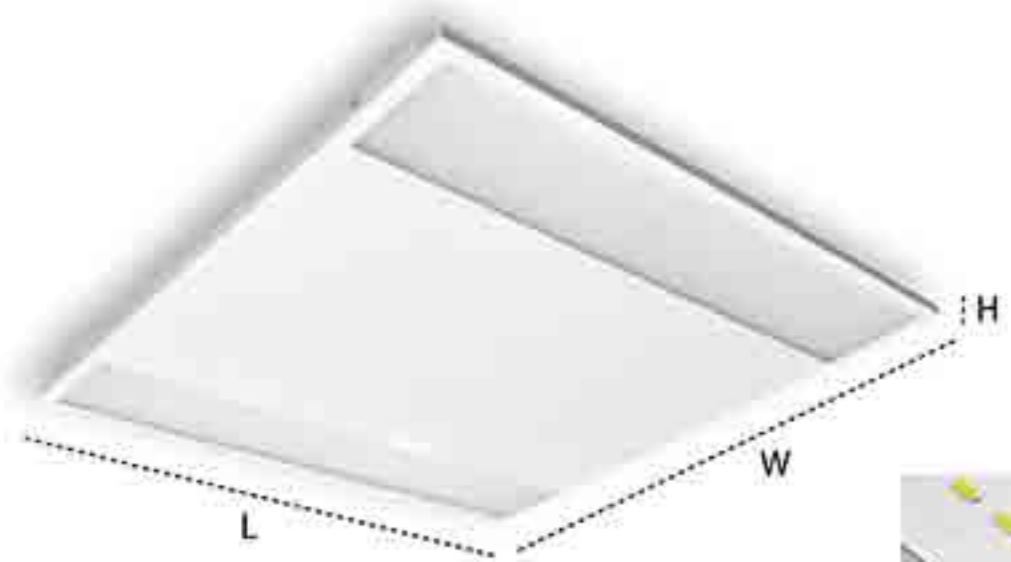
Model	Imperial						Metric						
	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)	
SP 100.40 (2x2)	40	3650	830/840 /865	600	600	9	SP 100.40 (2x2)	40	3650	830/840 /865	600	600	9
SP 100.40 (1x4)	40	3700		1210	300	9	SP 100.40 (1x4)	40	3700		1210	300	9
SP 100.60 (2x4)	54	5200		1210	600	9	SP 100.60 (2x4)	54	5200		1210	600	9



SAMSUNG



LED Linear Diffused Series

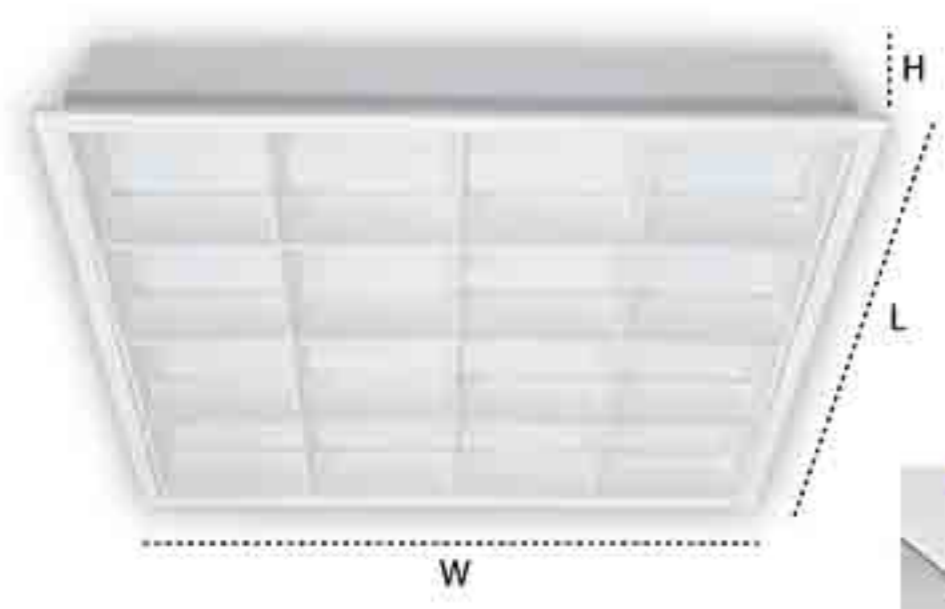


PHILIPS TRIDONIC OSRAM

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SWL A4 (1x2)	12	1250	830/840 /865	595	295	40
SWL A4 (1x2)	17	1800		595	295	40
SWL B4 (2x2)	23	2650		595	595	40
SWL B4 (2x2)	34	3750		595	595	40
SWL B4 (1x4)	23	2550		1195	295	40
SWL B4 (1x4)	34	3700		1195	295	40
SWL B4 (2x4)	23	2600		1195	595	40
SWL B4 (2x4)	34	3700		1195	595	40
SWL D4 (2x4)	46	5350		1195	595	40
SWL D4 (2x4)	69	7750		1195	595	40



LED Linear Diffused Series



PHILIPS TRIDONIC OSRAM

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SLR D4 (2x2)	46	3900	830/840	615	615	80
SLR D4 (2x2)	69	5500	/865	615	615	80



LED Linear Diffused Series



PHILIPS TRIDONIC OSRAM

Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SGP B4 (2x2)	23	2550	830/840	600	600	49
SGP B4 (2x2)	34	3600	/865	600	600	49





METEOR LED Linear Louvre Series

LED Linear Louvre Series

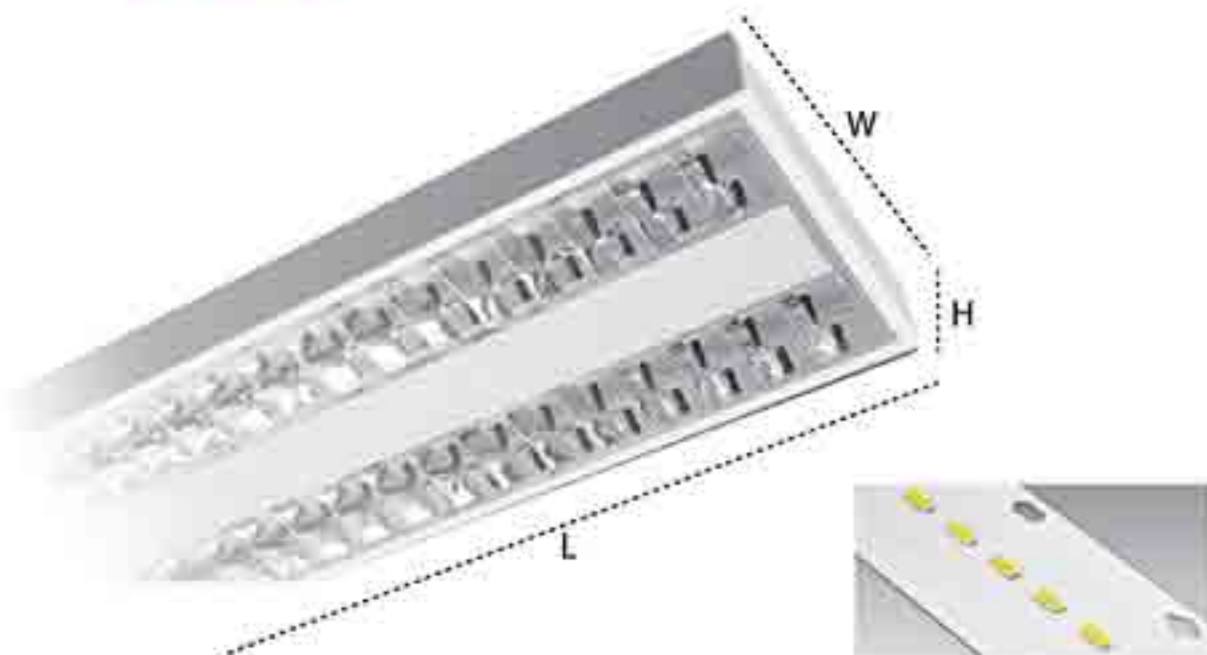


Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SRU A4 114	12	1250		595	295	70
SRU A4 114	17	1800	830/840	595	295	70
SRU B4 128	23	2500	/865	1195	295	70
SRU B4 128	34	3600		1195	295	70

PHILIPS TRIDONIC OSRAM



LED Linear Louvre Series



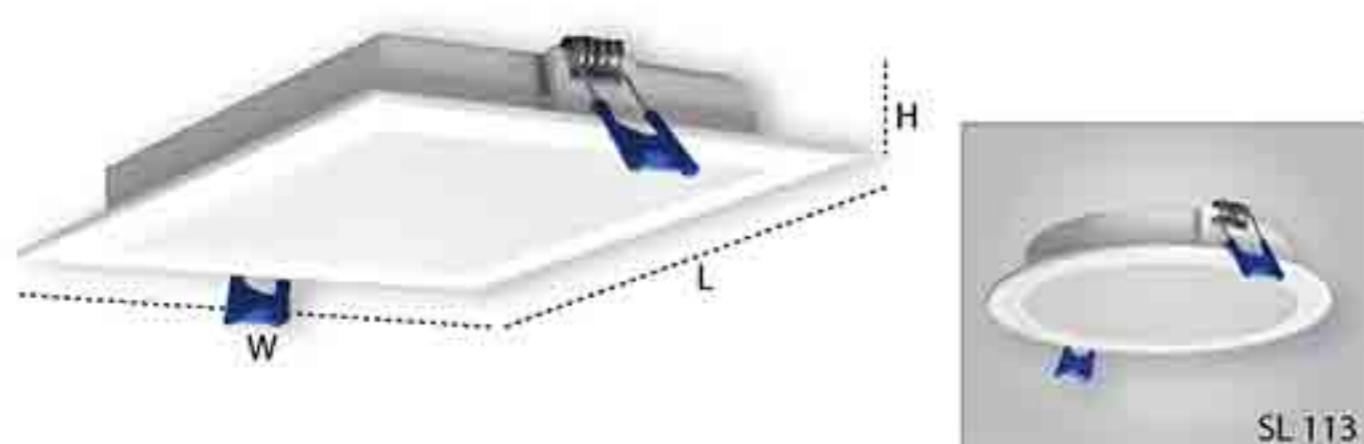
Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SAC B4 MM VDU PF (2x2)	23	1700		595	595	70
SAC B4 MM VDU PF (2x2)	34	2450		595	595	70
SAC D4 MM VDU PF (1x4)	46	3250	830/840	1195	295	88
SAC D4 MM VDU PF (1x4)	69	4750	/865	1195	295	88
SAC D4 MM VDU PF (2x4)	46	3600		1195	595	88
SAC D4 MM VDU PF (2x4)	69	4800		1195	595	88

PHILIPS TRIDONIC OSRAM

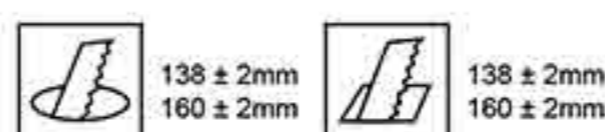


PLUTO LED Downlight Series

LED Downlight Series



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	Ø (mm)	L (mm)	W (mm)	H (mm)
SL 112.4 SQ	13	1000		-	150	150	25
SL 112.6 SQ	19	1550	830/840	-	175	175	25
SL 113.4 RD	13	1050	/865	150	-	-	25
SL 113.6 RD	19	1550		175	-	-	25



NEPTUNE LED Floodlight Series

LED Floodlight Series



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SL 301.100	102	12550	830/840	280	380	110
SL 301.200	201	24100	/865	320	435	120



LED Floodlight Series



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SL 307.65	66	8100		352	259	54
SL 307.100	100	12650	830/840	398	282	59
SL 307.150	152	19100	/865	448	371	63
SL 307.200	203	25250		445	510	67



LED Floodlight Series



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SL 308.40	40	6200		265	255	143
SL 308.50	50	7350		265	255	143
SL 308.60	60	8400	730/740/	265	255	143
SL 308.80	80	12640	750/757	295	350	174
SL 308.100	100	15200		295	350	174
SL 308.120	120	17400		295	350	174



LED Floodlight Series

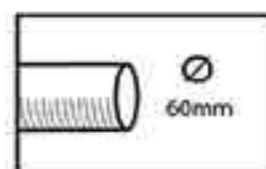


Model	Beam Angle	Nominal Power (W)	Nominal System Lumen Output (lm)			Ø (mm)	H (mm)
			(3000K)	(4000K)	(5000K)		
SL 303 BK	20°	25	2400	2700	3000	113	122
SL 303 BK	40°	25	2400	2700	3000	113	122
SL 303 WH	20°	25	2400	2700	3000	113	122
SL 303 WH	40°	25	2400	2700	3000	113	122



MARS LED Streetlight Series

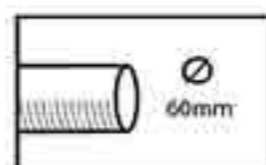
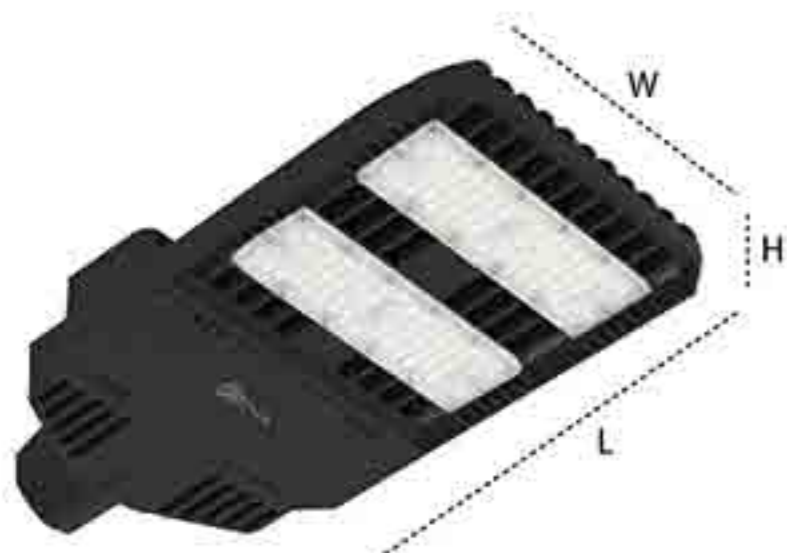
LED Streetlight Series



Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SL 500.3	104	12603	730/740 /750	640	350	67
SL 500.4	139	16950		720	350	67
SL 500.6	182	21596		800	350	67



LED Streetlight Series

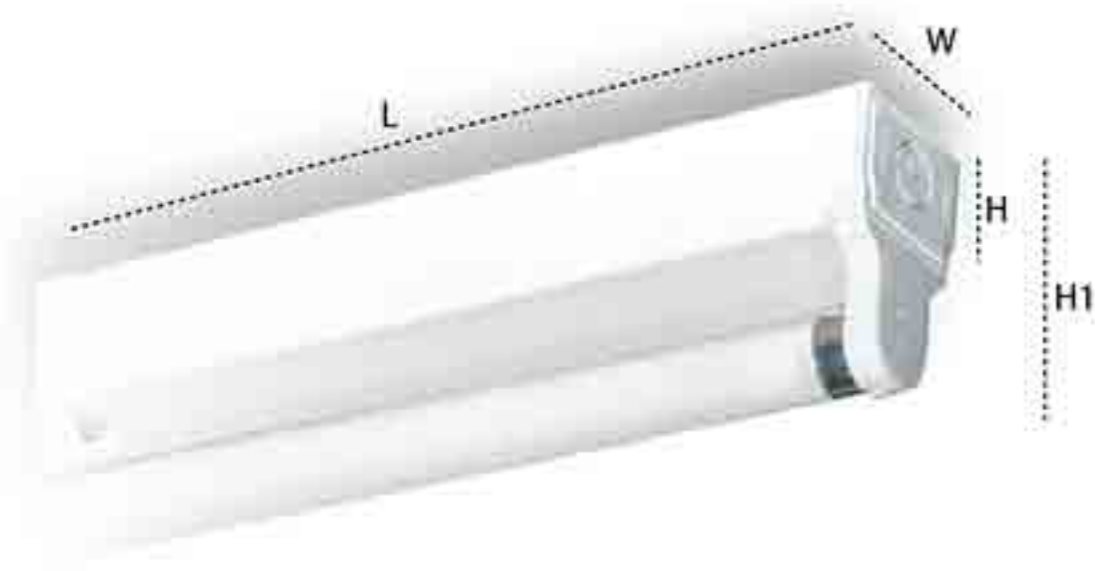


Model	Nominal Power (W)	Nominal System Lumen Output (lm)	CRI & CCT	L (mm)	W (mm)	H (mm)
SL 503.60	60	7200	730/740 /750	445	278	60
SL 503.100	100	12000		515	278	60
SL 503.150	150	18000		600	278	60
SL 503.180	180	21600		600	278	60



SONIC Batten Series

T8 Bare Batten Series



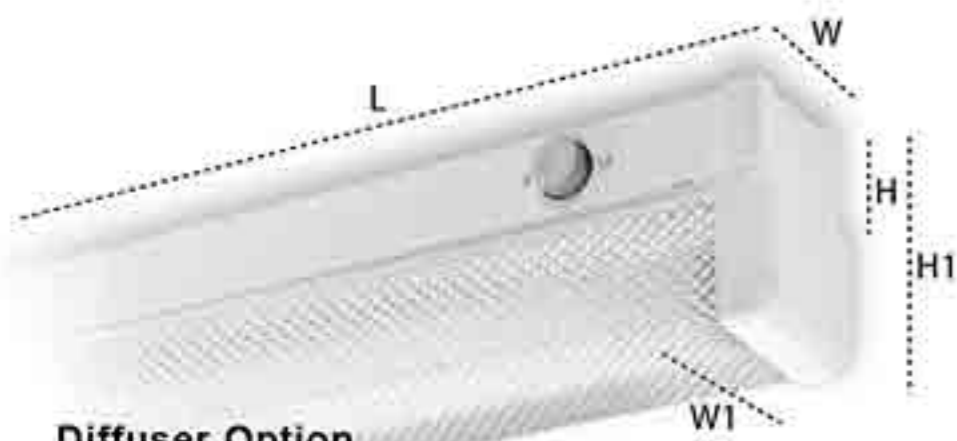
**LED Tube available upon request



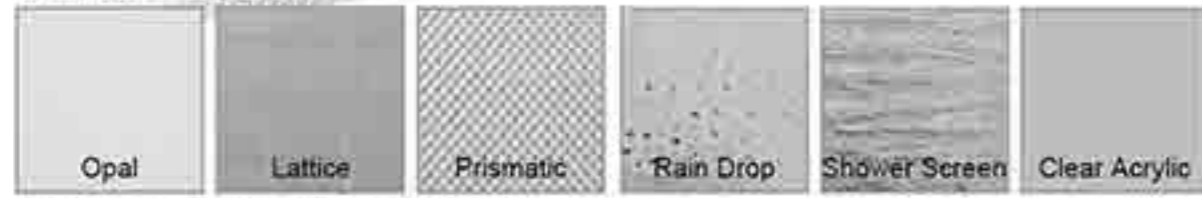
Model	No. of lamp	L (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SB 120	1x18W	612	54	-	42	87
SB 220	2x18W	612	54	100	42	85
SB 140	1x36W	1221	54	-	42	87
SB 240	2x36W	1221	54	100	42	85
SB 340	3x36W	1224	54	129	42	87
SB 158	1x58W	1525	54	-	42	87
SB 258	2x58W	1525	54	100	42	85



T8 Diffused Batten Series



Diffuser Option



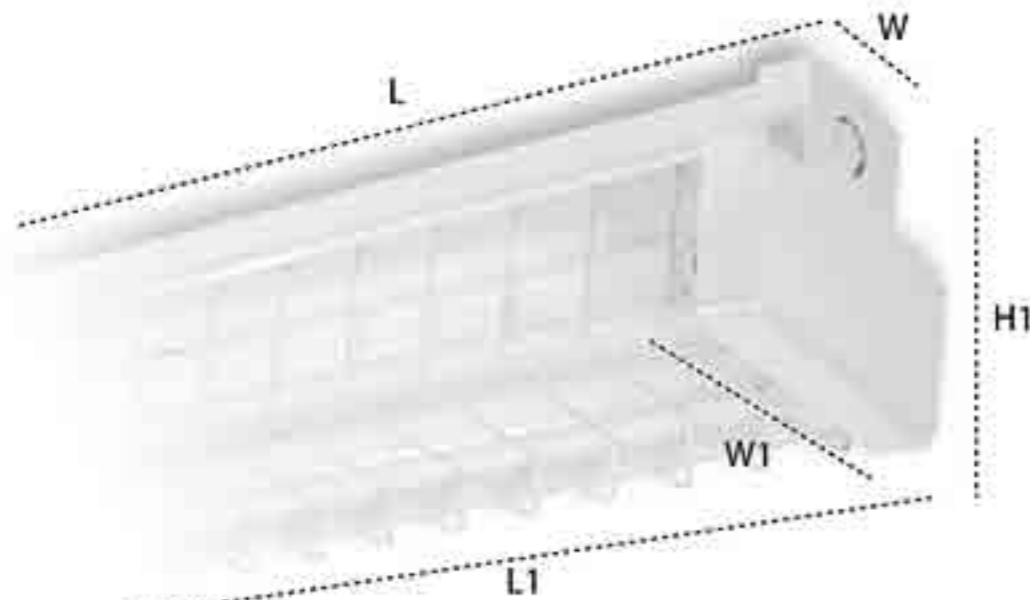
**LED Tube available upon request



Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SD 120	1x18W	620	630	58	66	41	92
SD 220	2x18W	625	635	58	120	41	102
SD 140	1x36W	1228	1238	58	66	41	92
SD 240	2x36W	1234	1244	58	120	41	102

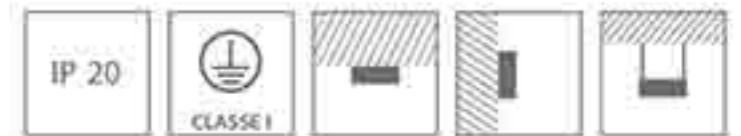


T8 Vandal Proof Batten Series

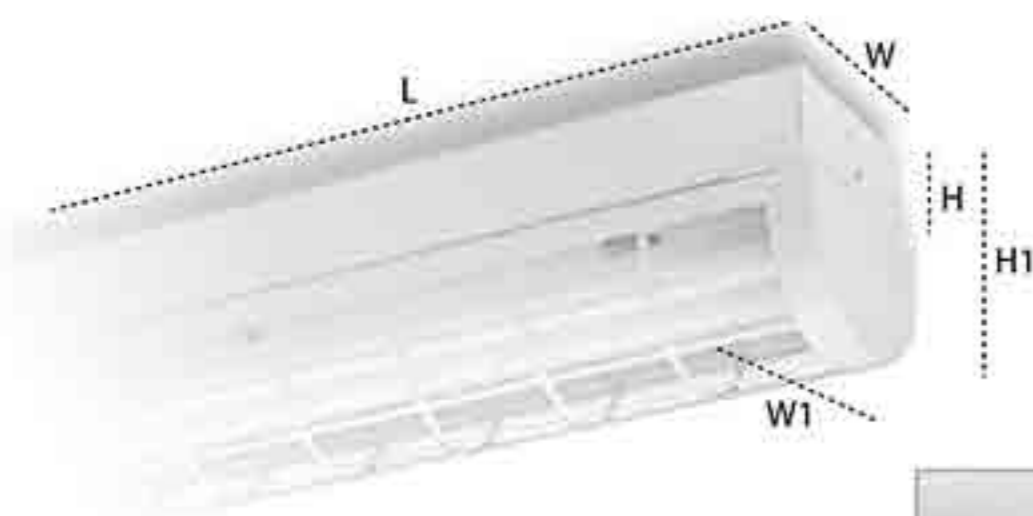


**LED Tube available upon request

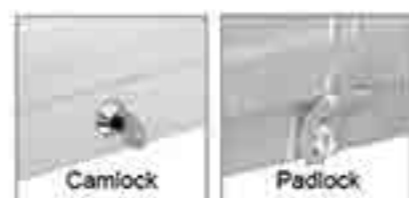
Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SWG N 120	1x18W	614	624	59	69	105	
SWG N 220	2x18W	614	624	59	120	105	
SWG N 140	1x36W	1225	1235	59	69	105	
SWG N 240	2x36W	1225	1235	59	120	105	
SWG N 158	1x58W	1525	1535	59	69	105	
SWG N 258	2x58W	1525	1535	59	120	105	



T8 Vandal Proof Batten Series



**LED Tube available upon request

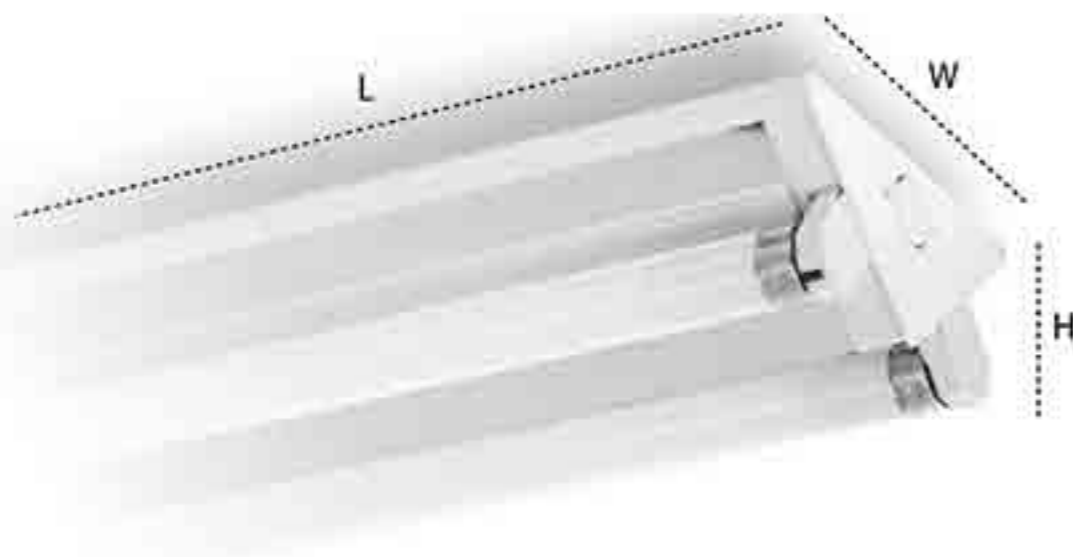


Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SWG 120 (Cam)	1x18W	616	629	100	105	45	115
SWG 120 (Pad)	1x18W	616	629	100	105	45	115
SWG 220 (Cam)	2x18W	616	629	100	105	45	115
SWG 220 (Pad)	2x18W	616	629	100	105	45	115
SWG 140 (Cam)	1x36W	1224	1233	100	105	45	115
SWG 140 (Pad)	1x36W	1224	1233	100	105	45	115
SWG 240 (Cam)	2x36W	1224	1231	100	105	45	115
SWG 240 (Pad)	2x36W	1224	1231	100	105	45	115



SONIC Batten Series

T8 Reflector Batten Series (V Type)

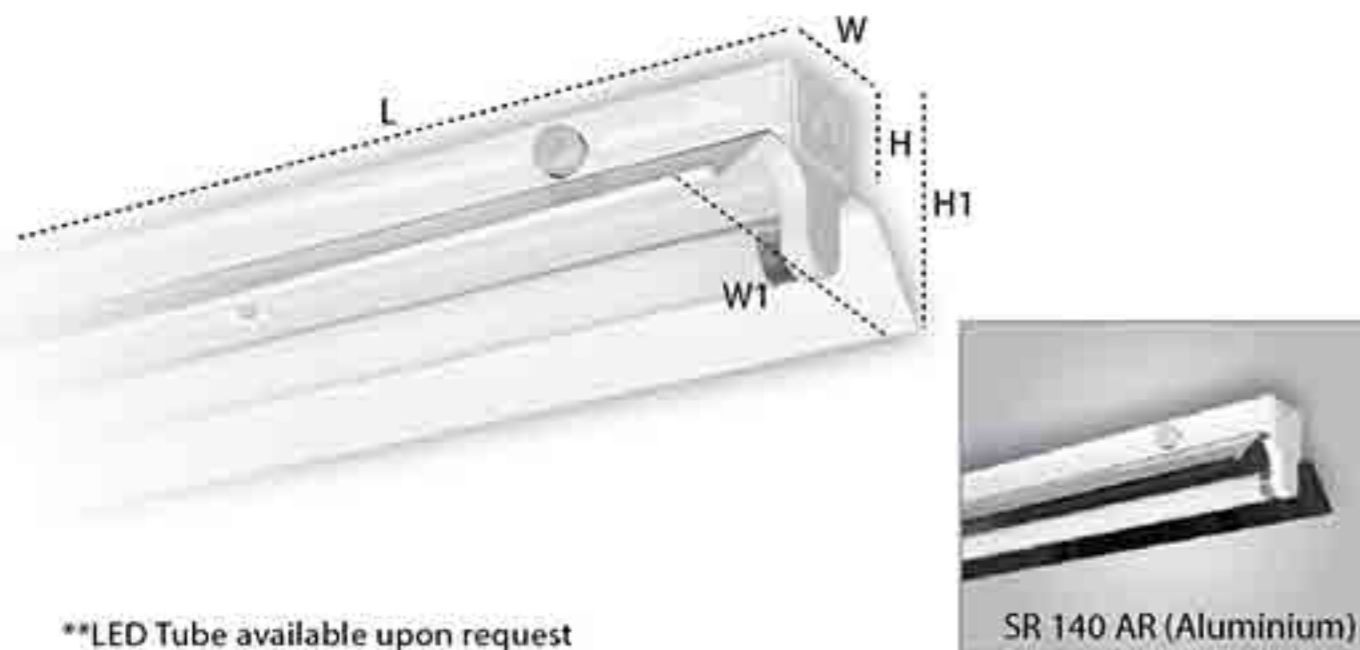


**LED Tube available upon request

Model	No. of lamp	L (mm)	W (mm)	H1 (mm)
SB 120 (V Type)	1x18W	618	137	85
SB 220 (V Type)	2x18W	618	137	85
SB 320 (V Type)	3x18W	618	137	85
SB 140 (V Type)	1x36W	1223	137	85
SB 240 (V Type)	2x36W	1223	137	85
SB 340 (V Type)	3x36W	1223	137	85



T8 Reflector Batten Series (Metal / Aluminium)

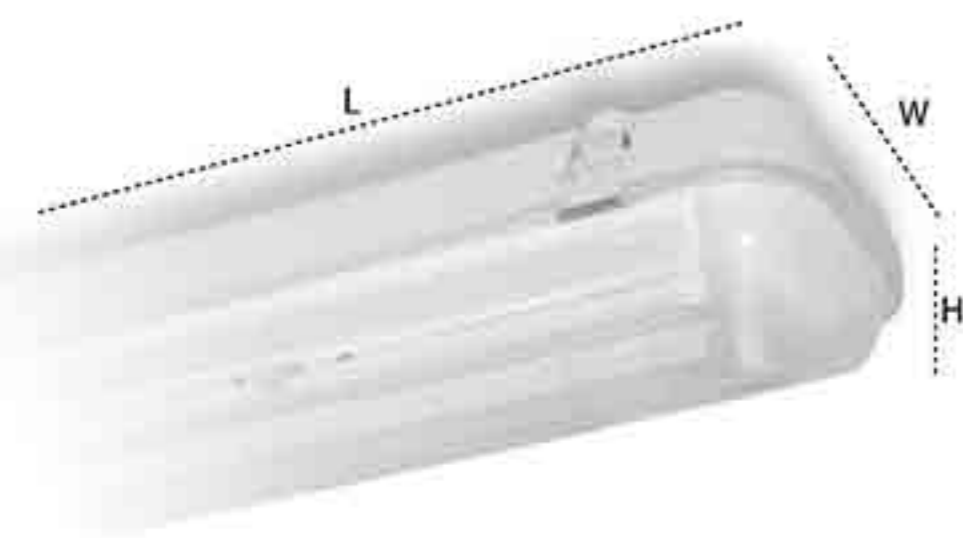


**LED Tube available upon request

Model	No. of lamp	Metal					Aluminium						
		L (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)	Model	No. of lamp	L (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SR 120	1x18W	612	53	168	42	87	SR 120 (AR)	1x18W	612	53	168	42	87
SR 220	2x18W	612	53	216	42	87	SR 220 (AR)	2x18W	612	53	216	42	87
SR 140	1x36W	1221	53	168	42	87	SR 140 (AR)	1x36W	1221	53	168	42	87
SR 240	2x36W	1221	53	216	42	87	SR 240 (AR)	2x36W	1221	53	216	42	87
SR 158	1x58W	1522	53	168	42	87	SR 158 (AR)	1x58W	1522	53	168	42	87
SR 228	2x58W	1522	53	216	42	87	SR 228 (AR)	2x58W	1522	53	216	42	87



T8 IP65 Weatherproof Series

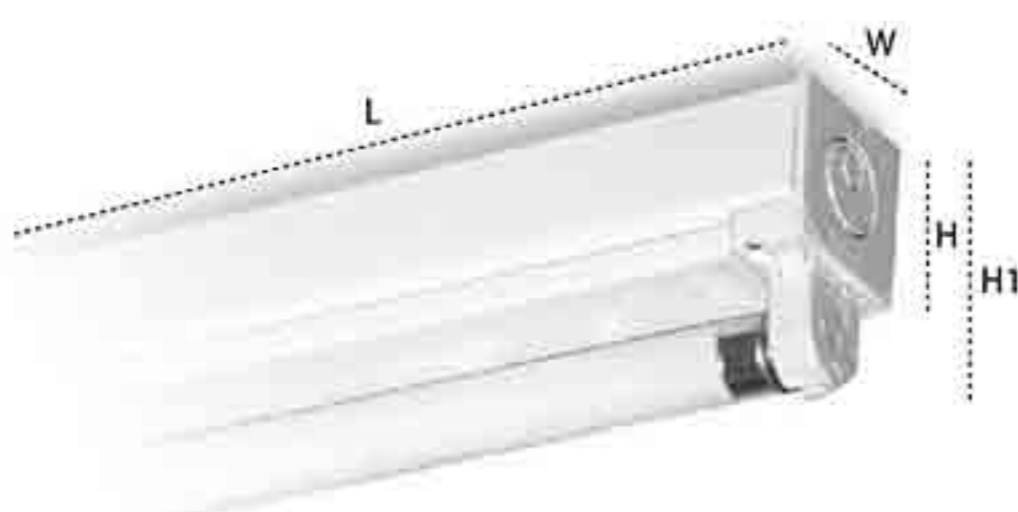


**LED Tube available upon request

Model	No. of lamp	L (mm)	W (mm)	H1 (mm)
SCR 120	1x18W	660	85	87
SCR 220	2x18W	660	134	87
SCR 140	1x36W	1269	85	87
SCR 240	2x36W	1269	134	87
SCR 158	1x58W	1570	85	87
SCR 258	2x58W	1570	134	87



T5 Bare Batten Series



Model	No. of lamp	L (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SB 114	1x14W/24W	571	38	-	35	58
SB 214	2x14W/24W	571	38	67	35	60
SB 121	1x21W/39W	871	38	-	35	58
SB 221	2x21W/39W	871	38	67	35	60
SB 128	1x28W/54W	1171	38	-	35	58
SB 228	2x28W/54W	1171	38	67	35	60
SB 135	1x35W/49W	1471	38	-	35	58
SB 235	2x35W/49W	1471	38	67	35	60



SONIC Batten Series

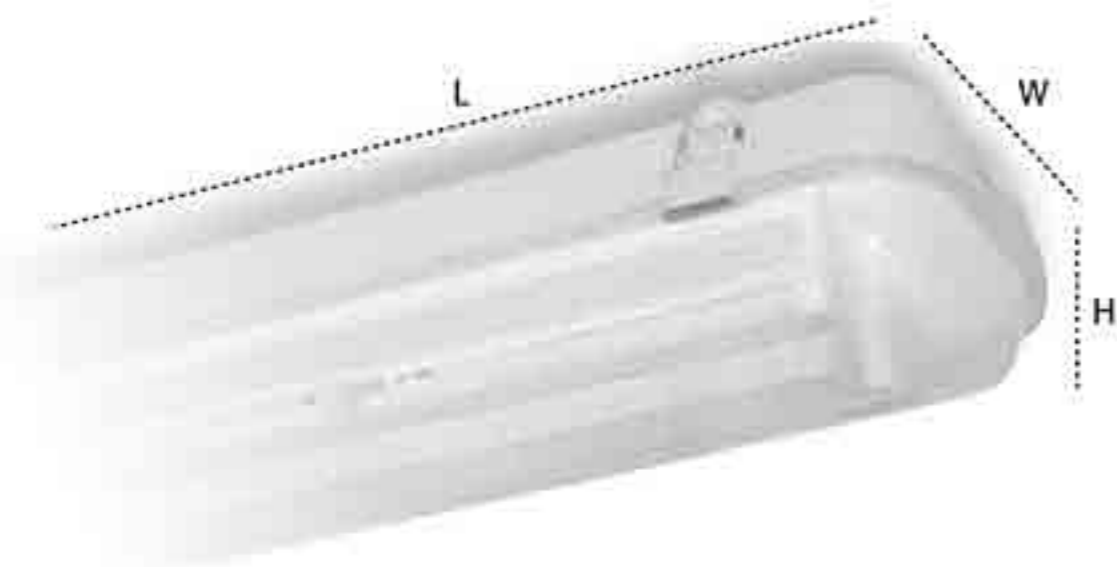
T5 Vandal Proof Batten Series



Model	No. of lamp	L (mm)	W (mm)	W1 (mm)	H (mm)
SWG 114	1x14W/24W	570	38	51	78
SWG 121	1x21W/39W	870	38	51	78
SWG 128	1x28W/54W	1170	38	51	78
SWG 135	1x35W/49W	1470	38	51	78
SWG 214	2x14W/24W	570	74	93	85
SWG 221	2x21W/39W	870	74	93	85
SWG 228	2x28W/54W	1170	74	93	85
SWG 235	2x35W/49W	1470	74	93	85



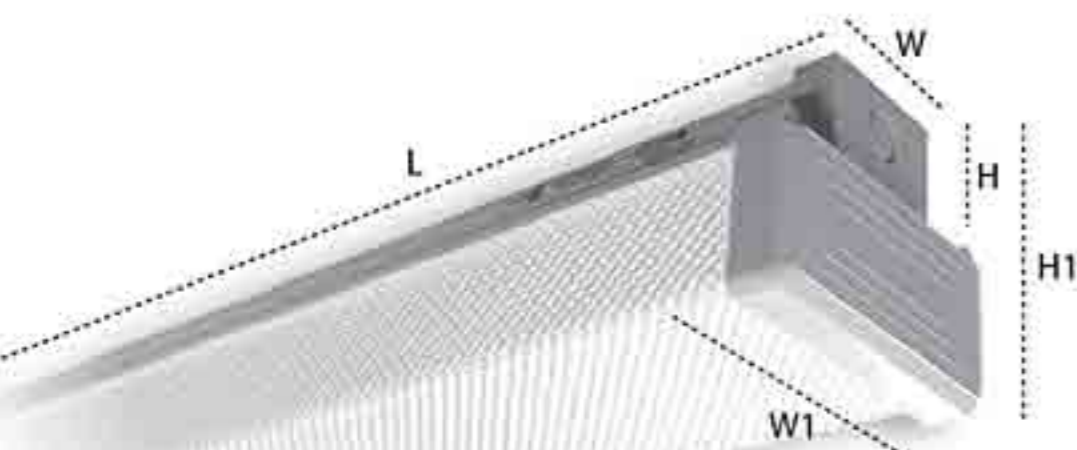
T5 IP65 Weatherproof Series



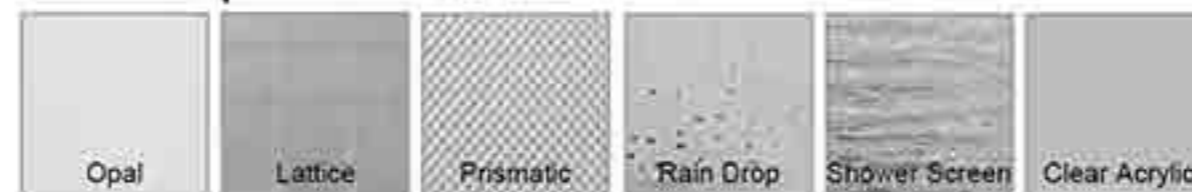
Model	No. of lamp	L (mm)	W (mm)	H (mm)
SBC 114	1x14W/24W	660	85	87
SBC 214	2x14W/24W	660	134	87
SBC 128	1x28W/54W	1269	85	87
SBC 228	2x28W/54W	1269	134	87
SBC 135	1x35W/49W	1570	85	87
SBC 235	2x35W/49W	1570	134	87



T5 Diffused Batten Series



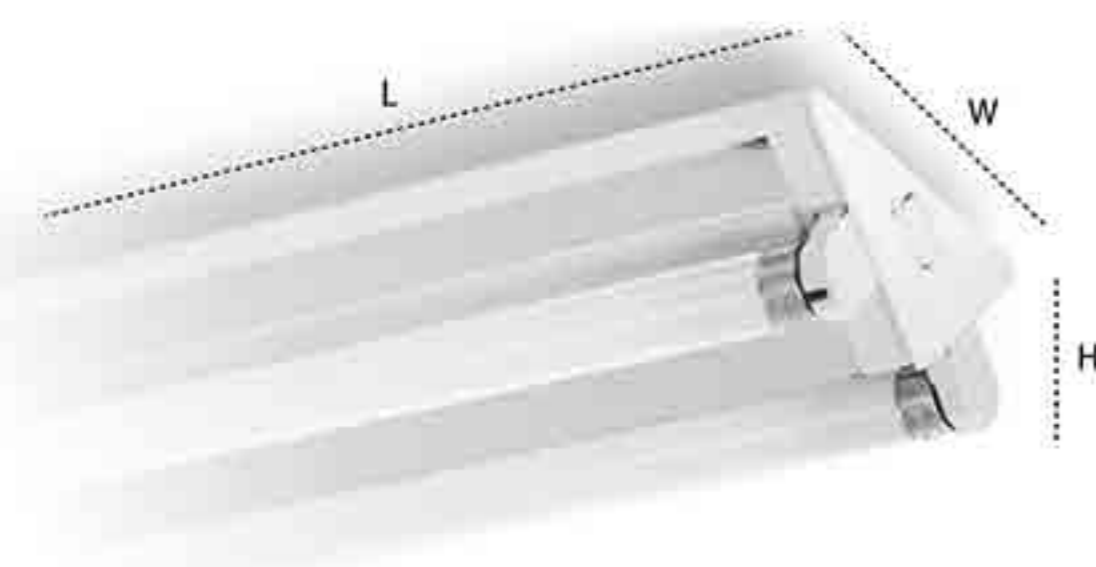
Diffuser Option



Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SBD 114	1x14W	585	575	115	120	46	108
SBD 214	2x14W	585	575	115	120	46	108
SBD 128	1x28W	1185	1185	115	120	46	108
SBD 228	2x28W	1185	1185	115	120	46	108



T5 Reflector Batten Series (V Type)

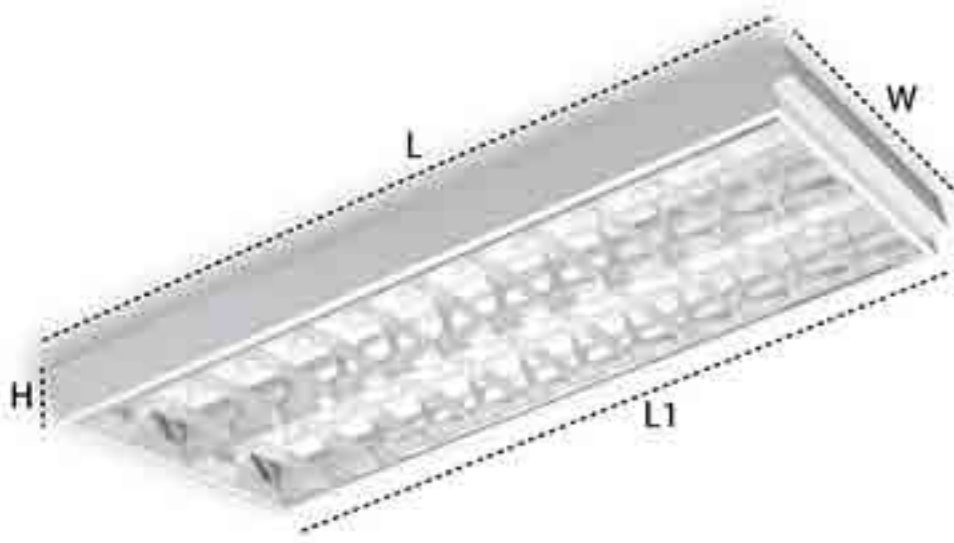


Model	No. of lamp	L	W	H
SVF 228	2x28W	1174	137	68



METEOR Louvre Series

T8 Mirror Optic Louvre Fitting (Recessed)



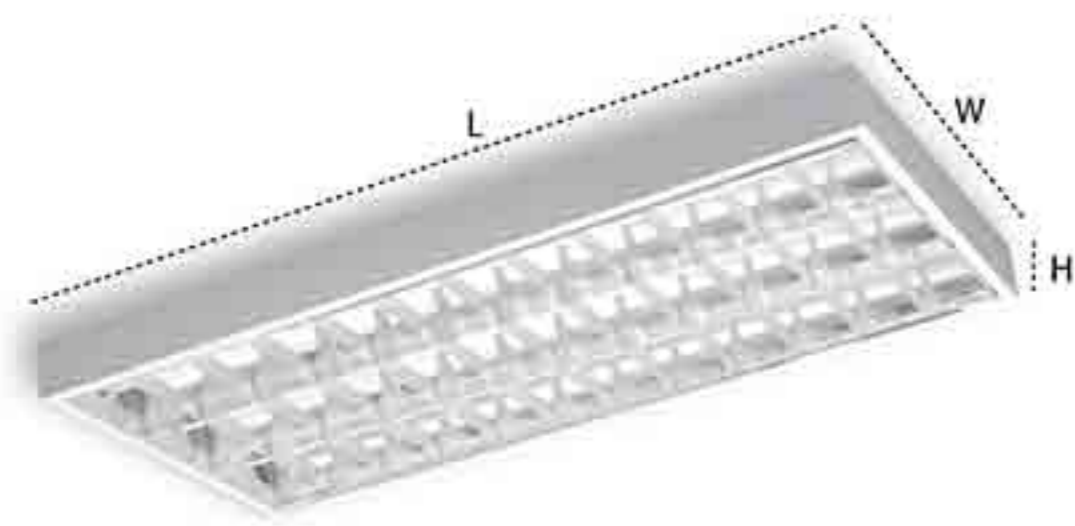
Model	No. of lamp	Imperial			
		L (mm)	L1 (mm)	W (mm)	H (mm)
SAC 120 MOL (1x2)	1x18W	612	600	302	90
SAC 220 MOL	2x18W	612	600	600	90
SAC 320 MOL	3x18W	612	600	600	90
SAC 420 MOL	4x18W	612	600	600	90
SAC 140 MOL (1x4)	1x36W	1222	1210	302	90
SAC 240 MOL (1x4)	2x36W	1222	1210	302	90
SAC 240 MOL	2x36W	1222	1210	600	90
SAC 340 MOL	3x36W	1222	1210	600	90
SAC 440 MOL	4x36W	1222	1210	600	90

Model	No. of lamp	Metric			
		L (mm)	L1 (mm)	W (mm)	H (mm)
SAC 120 MM MOL (1x2)	1x18W	612	595	295	90
SAC 220 MM MOL	2x18W	612	595	595	90
SAC 320 MM MOL	3x18W	612	595	595	90
SAC 420 MM MOL	4x18W	612	595	595	90
SAC 140 MM MOL	1x36W	1222	1195	295	90
SAC 240 MM MOL (1x4)	2x36W	1222	1195	295	90
SAC 240 MM MOL	2x36W	1222	1195	595	90
SAC 340 MM MOL	3x36W	1222	1195	595	90
SAC 440 MM MOL	4x36W	1222	1195	595	90

**LED Tube available upon request



T8 Mirror Optic Louvre Fitting (Surface)

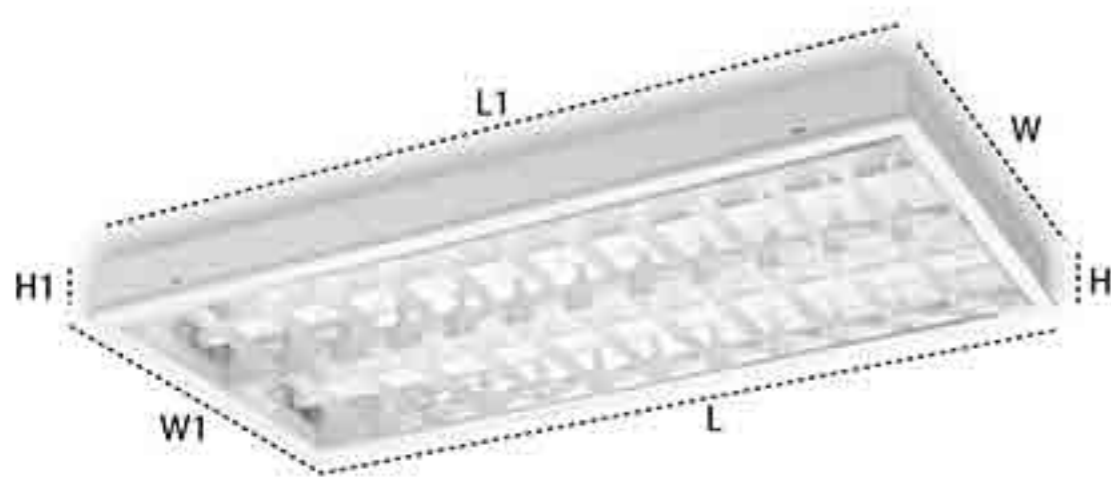


Model	No. of lamp	L (mm)	W (mm)	H (mm)
SAC 120/S MOL (1X2)	1x18W	612	302	90
SAC 220/S MOL (1X2)	2x18W	612	302	90
SAC 220/S MOL	2x18W	612	598	90
SAC 320/S MOL	3x18W	612	598	90
SAC 420/S MOL	4x18W	612	598	90
SAC 140/S MOL (1X4)	1x36W	1222	302	90
SAC 240/S MOL (1X4)	2x36W	1222	302	90
SAC 240/S MOL	2x36W	1222	598	90
SAC 340/S MOL	3x36W	1222	598	90
SAC 440/S MOL	4x36W	1222	598	90

**LED Tube available upon request



T8 Mirror Optic Louvre Fitting (Wood/Plaster Ceiling)



Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SAC 220/W MOL	2x18W	612	636	561	620	90	78
SAC 320/W MOL	3x18W	612	636	561	620	90	78
SAC 420/W MOL	4x18W	612	636	561	620	90	78
SAC 240/W MOL (1x4)	2x36W	1222	1246	270	329	90	78
SAC 240/W MOL	2x36W	1222	1246	561	620	90	78
SAC 340/W MOL	3x36W	1222	1246	561	620	90	78
SAC 440/W MOL	4x36W	1222	1246	561	620	90	78

**LED Tube available upon request



T8 Wall Washer Fitting (Surface)



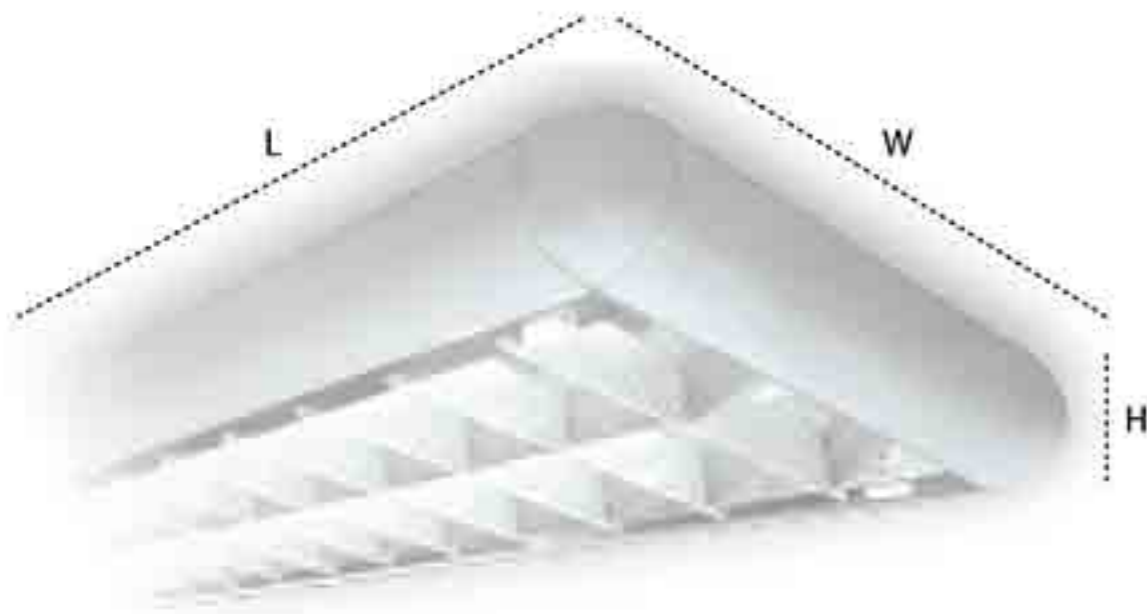
Model	No. of lamp	L (mm)	W (mm)	H (mm)
SAC 120 (Washer)	1x18W	615	243	138
SAC 220 (Washer)	2x18W	615	243	138
SAC 140 (Washer)	1x36W	1225	243	138
SAC 240 (Washer)	2x36W	1225	243	138

**LED Tube available upon request



METEOR Louvre Series

T8 Radius Louvre Fitting (Surface / Pendant)

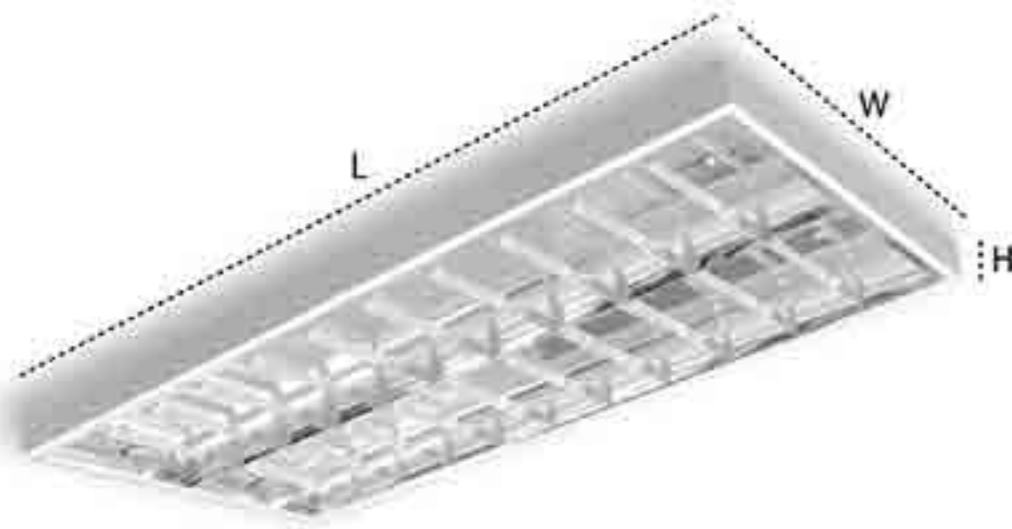


**LED Tube available upon request

Model	No. of lamp	L (mm)	W (mm)	H (mm)
SDM 120 (1x2)	1x18W	683	292	65
SDM 220 (1x2)	2x18W	683	292	65
SDM 320 (1x2)	3x18W	683	292	65
SDM 140 (1x4)	1x36W	1293	292	65
SDM 240 (1x4)	2x36W	1293	292	65
SDM 340 (1x4)	3x36W	1293	292	65
SDM 211 (PLS 1x1)	2x7/9/11W	292	292	65
SDM 218 (PLC 1x1)	2x10/13/18W	292	292	65



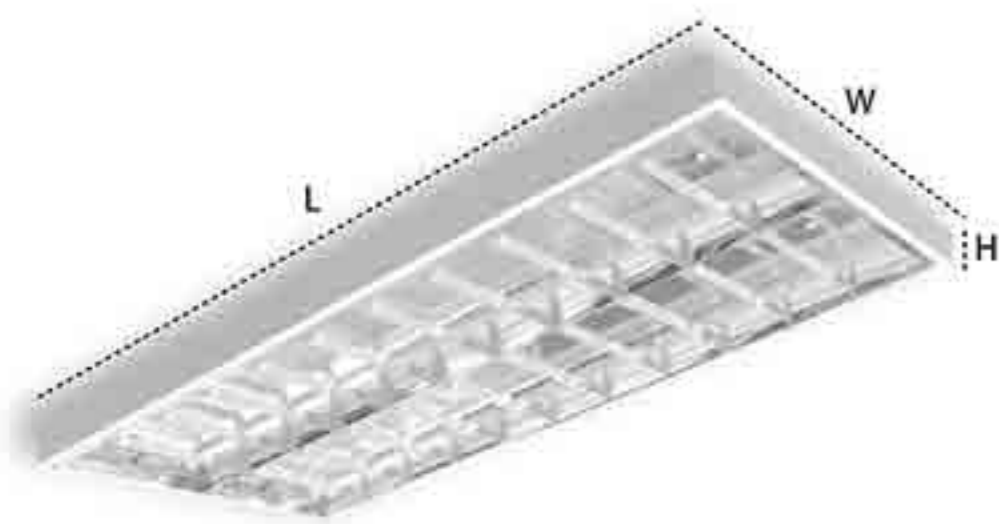
T5 Mirror Optic Louvre Fitting (Recessed/Imperial)



Model	No. of lamp	L (mm)	W (mm)	H (mm)
SRM 214 (1x2)	2x14W	600	302	55
SRM 214	2x14W	600	600	55
SRM 314	3x14W	600	600	55
SRM 414	4x14W	600	600	55
SRM 128	1x28W	1210	302	55
SRM 228	2x28W	1210	600	55
SRM 228 (1x4)	2x28W	1210	302	55
SRM 328	3x28W	1210	600	55
SRM 428	4x28W	1210	600	55



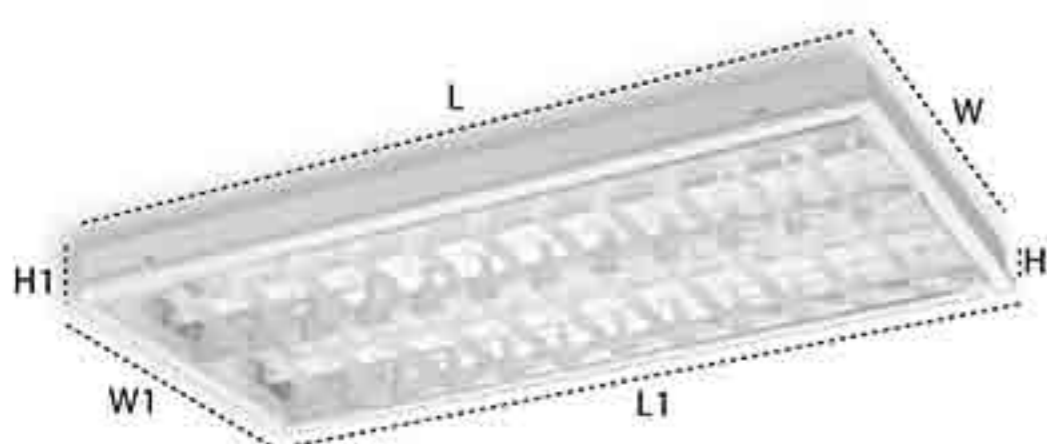
T5 Mirror Optic Louvre Fitting (Surface/Metric)



Model	No. of lamp	L (mm)	W (mm)	H (mm)
SSM 214 (MM) (1x2)	2x14W	595	295	55
SSM 214 (MM)	2x14W	595	595	55
SSM 314 (MM)	3x14W	595	595	55
SSM 414 (MM)	4x14W	595	595	55
SSM 128 (MM)	1x28W	1195	295	55
SSM 228 (MM)	2x28W	1195	595	55
SSM 228 (MM) (1x4)	2x28W	1195	295	55
SSM 328 (MM)	3x28W	1195	595	55
SSM 428 (MM)	4x28W	1195	595	55



T5 Mirror Optic Louvre Fitting (Wood / Plaster Ceiling)



Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SWM 214 (1x2)	2x14W	573	608	264	299	60	50
SWM 214	2x14W	573	608	563	598	60	50
SWM 314	3x14W	573	608	563	598	60	50
SWM 414	4x14W	573	608	563	598	60	50
SWM 228 (1x4)	2x28W	1173	1208	264	299	60	50
SWM 228	2x28W	1173	1208	563	598	60	50
SWM 328	3x28W	1173	1208	563	598	60	50
SWM 428	4x28W	1173	1208	563	598	60	50



METEOR Louvre Series

T5 Double Parabolic Louvre Fitting (Recessed / Imperial)



Model	No. of lamp	L (mm)	W (mm)	H (mm)
SRV 214	2x14W	612	612	62
SRV 314	3x14W	612	612	62
SRV 414	4x14W	612	612	62
SRV 128	1x28W	1222	302	67
SRV 228 (1x4)	2x28W	1222	302	67
SRV 228	2x28W	1222	302	67
SRV 328	3x28W	1222	600	67
SRV 428	4x28W	1222	600	67



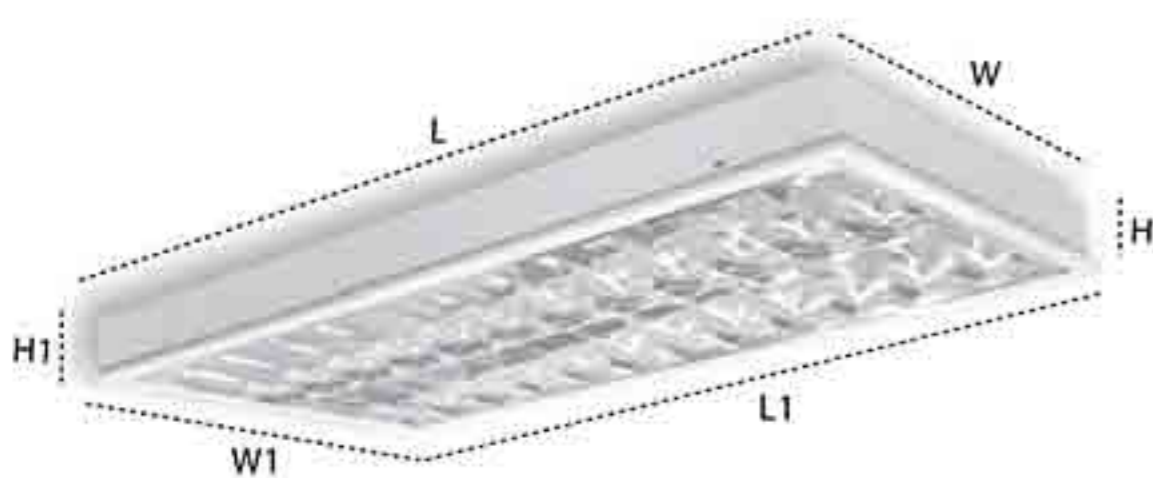
T5 Double Parabolic Louvre Fitting (Surface / Metric)



Model	No. of lamp	L (mm)	W (mm)	H (mm)
SSV 114	1x14W	595	170	70
SSV 214	2x14W	595	595	70
SSV 314	3x14W	595	595	70
SSV 414	4x14W	595	595	70
SSV 128	1x28W	1195	170	70
SSV 228	2x28W	1195	595	70
SSV 228 (1x4)	2x28W	1195	295	70
SSV 328	3x28W	1195	595	70
SSV 428	4x28W	1195	595	70



T5 Double Parabolic Louvre Fitting (Wood / Plaster Ceiling)



Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SWV 214	2x14W	612	632	600	620	60	70
SWV 314	3x14W	612	632	600	620	60	70
SWV 414	4x14W	612	632	600	620	60	70
SWV 228 (1x4)	2x28W	1222	1242	270	329	60	70
SWV 228	2x28W	1222	1242	600	620	60	70
SWV 328	3x28W	1222	1242	600	620	60	70
SWV 428	4x28W	1222	1242	600	620	60	70



T5 Wall Washer Fitting (Surface)

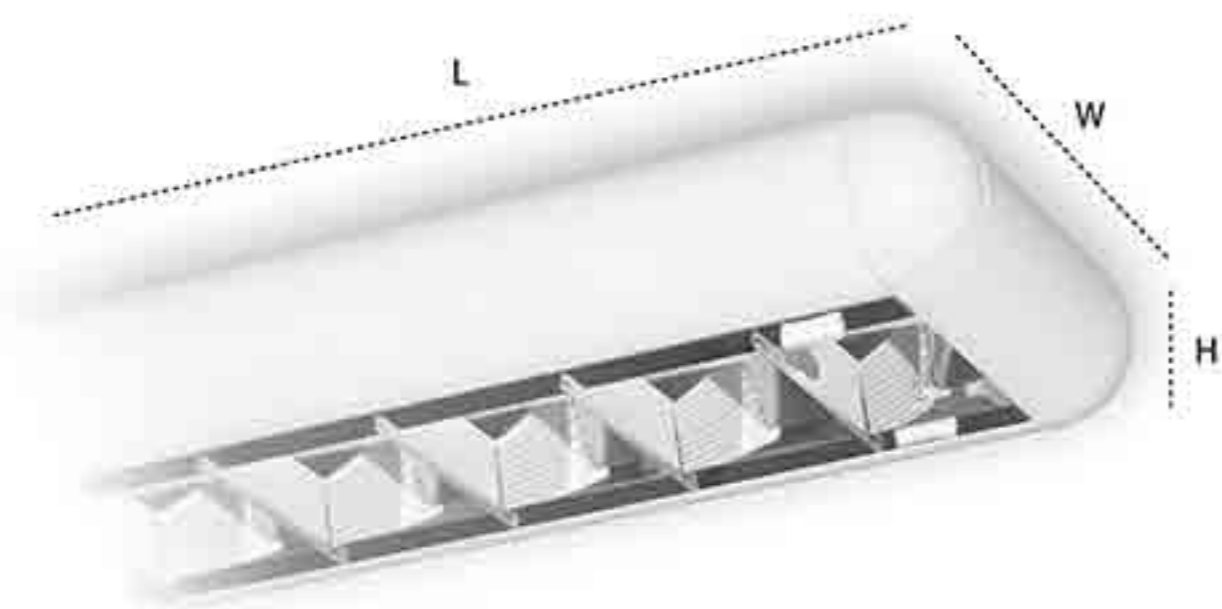


Model	No. of lamp	L (mm)	W (mm)	H (mm)
SGF 114	1x14W	595	170	114
SGF 214	2x14W	595	170	114
SGF 128	1x28W	1180	170	114
SGF 228	2x28W	1180	170	114



METEOR Louvre Series

T5 Radius Louvre Fitting (Surface / Pendant)



Model	No. of lamp	L (mm)	W (mm)	H (mm)
SDM 114	1x14W	640	191	65
SDM 214	2x14W	640	191	65
SDM 128	1x28W	1241	191	65
SDM 228	2x28W	1241	191	65



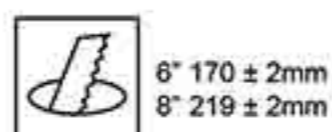
PLUTO Downlight Series

Horizontal Downlight (Recessed)



Model	6" (Ø158) H:100, RIM:Ø189(mm)
PLUTO 100.6110	
PLUTO 100.6113	
PLUTO 100.6118	
PLUTO 100.6126	
PLUTO 100.6210	
PLUTO 100.6213	
PLUTO 100.6218	
PLUTO 100.6226	

No. of lamp	Model	8" (Ø203) H:120, RIM:Ø242(mm)	No. of lamp
1x10W	PLUTO 100.8113		1x13W
1x13W	PLUTO 100.8110		1x10W
1x18W	PLUTO 100.8118		1x18W
1x26W	PLUTO 100.8126		1x26W
2x10W	PLUTO 100.8132		1x32W
2x13W	PLUTO 100.8210		2x10W
2x18W	PLUTO 100.8213		2x13W
2x26W	PLUTO 100.8218		2x18W
	PLUTO 100.8226		2x26W
	PLUTO 100.8232		2x32W
	PLUTO 100.8242		2x42W

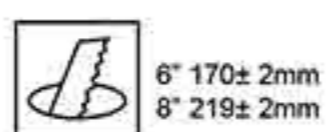


Horizontal Downlight (Recessed)



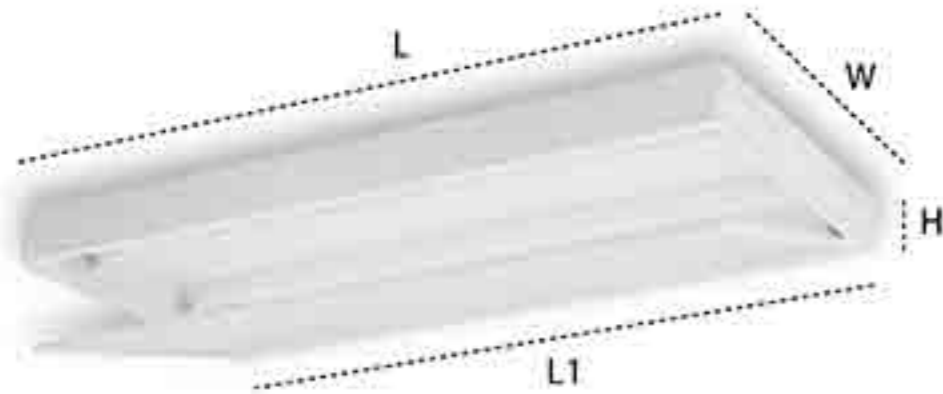
Model	6" (Ø158) H:100, RIM:Ø189(mm)
PLUTO 102.6110E	
PLUTO 102.6113E	
PLUTO 102.6118E	

No. of lamp	Model	8" (Ø203) H:120, RIM:Ø242(mm)	No. of lamp
1x10W	PLUTO 102.8213E		2x13W
1x13W	PLUTO 102.8218E		2x18W
1x18W	PLUTO 102.8226E		2x26W



AURORAS Diffused Series

T8 Diffused Hinged Fitting (Recessed)



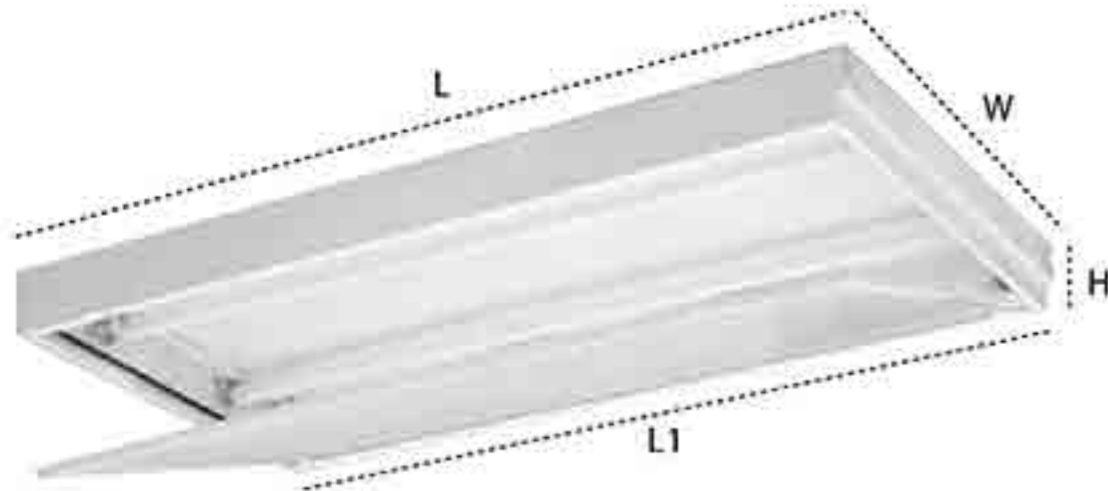
Model	Imperial No. of lamp	L (mm)	L1 (mm)	W (mm)	H (mm)
SAC 120 (HD) (1x2)	1x18W	612	600	302	90
SAC 220 (HD) (1x2)	2x18W	612	600	302	90
SAC 220 (HD)	2x18W	612	600	600	90
SAC 320 (HD)	3x18W	612	600	600	90
SAC 420 (HD)	4x18W	612	600	600	90
SAC 140 (HD) (1x4)	1x36W	1222	1210	302	90
SAC 240 (HD) (1x4)	2x36W	1222	1210	302	90
SAC 240 (HD)	2x36W	1222	1210	600	90
SAC 340 (HD)	3x36W	1222	1210	600	90
SAC 440 (HD)	4x36W	1222	1210	600	90

Model	Metric No. of lamp	L (mm)	L1 (mm)	W (mm)	H (mm)
SAC 120(HD)(1x2)(mm)	1x18W	612	595	295	90
SAC 220(HD)(1x2)(mm)	2x18W	612	595	295	90
SAC 220(HD)(mm)	2x18W	612	595	595	90
SAC 320(HD)(mm)	3x18W	612	595	595	90
SAC 420(HD)(mm)	4x18W	612	595	595	90
SAC 140(HD)(1x4)(mm)	1x36W	1222	1195	295	90
SAC 240(HD)(1x4)(mm)	2x36W	1222	1195	295	90
SAC 240(HD)(mm)	2x36W	1222	1195	595	90
SAC 340(HD)(mm)	3x36W	1222	1195	595	90
SAC 440(HD)(mm)	4x36W	1222	1195	595	90

**LED Tube available upon request



T8 Clean Room Fitting (Recessed)



Model	Imperial No. of lamp	L (mm)	L1 (mm)	W (mm)	H (mm)
SAC 120 (CRF)	1x18W	612	600	302	90
SAC 220 (CRF)	2x18W	612	600	600	90
SAC 320 (CRF)	3x18W	612	600	600	90
SAC 420 (CRF)	4x18W	612	600	600	90
SAC 140 (CRF)	1x36W	1222	1210	302	90
SAC 240 (CRF)	2x36W	1222	1210	600	90
SAC 340 (CRF)	3x36W	1222	1210	600	90
SAC 440 (CRF)	4x36W	1222	1210	600	90

Model	Metric No. of lamp	L (mm)	L1 (mm)	W (mm)	H (mm)
SAC 120 (CRF) (MM)	1x18W	612	595	295	90
SAC 220 (CRF) (MM)	2x18W	612	595	595	90
SAC 320 (CRF) (MM)	3x18W	612	595	595	90
SAC 420 (CRF) (MM)	4x18W	612	595	595	90
SAC 140 (CRF) (MM)	1x36W	1222	1195	295	90
SAC 240 (CRF) (MM)	2x36W	1222	1195	595	90
SAC 340 (CRF) (MM)	3x36W	1222	1195	595	90
SAC 440 (CRF) (MM)	4x36W	1222	1195	595	90

**LED Tube available upon request



T8 Diffused Hinged Fitting / Clean Room Fitting (Surface)



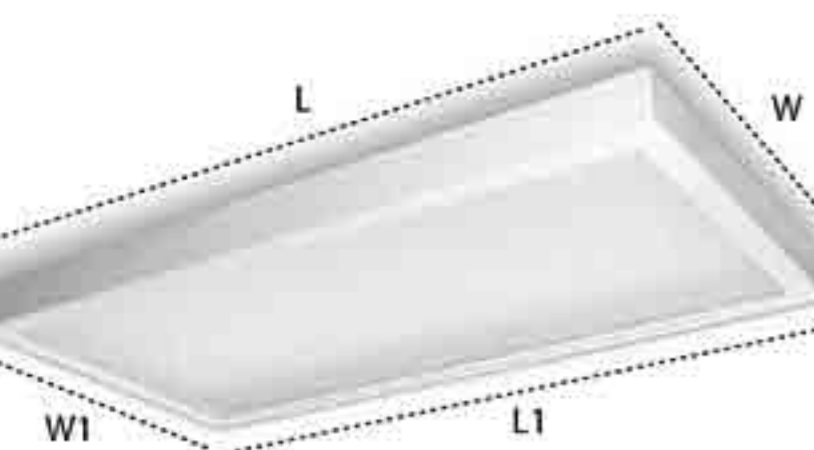
Model	Hinged Fitting No. of lamp	L (mm)	W (mm)	H (mm)
SAC 120/S (HD)	1x18W	612	302	90
SAC 220/S (HD)	2x18W	612	598	90
SAC 320/S (HD)	3x18W	612	598	90
SAC 420/S (HD)	4x18W	612	598	90
SAC 140/S (HD)	1x36W	1222	302	90
SAC 240/S (HD)	2x36W	1222	598	90
SAC 340/S (HD)	3x36W	1222	598	90
SAC 440/S (HD)	4x36W	1222	598	90

Model	Clean Room Fitting No. of lamp	L (mm)	W (mm)	H (mm)
SAC 120/S (CRF)	1x18W	612	302	90
SAC 220/S (CRF)	2x18W	612	598	90
SAC 320/S (CRF)	3x18W	612	598	90
SAC 420/S (CRF)	4x18W	612	598	90
SAC 140/S (CRF)	1x36W	1222	302	90
SAC 240/S (CRF)	2x36W	1222	598	90
SAC 340/S (CRF)	3x36W	1222	598	90
SAC 440/S (CRF)	4x36W	1222	598	90

**LED Tube available upon request



T8 Diffused Hinged Fitting / Clean Room Fitting (Wood/ Plaster Ceiling)



Model	Hinged Fitting No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)
SAC 220/W (HD)	2x18W	612	628	598	628	90
SAC 320/W (HD)	3x18W	612	628	598	628	90
SAC 420/W (HD)	4x18W	612	628	598	628	90
SAC 140/W (HD)(1x4)	1x36W	1222	1254	302	334	90
SAC 240/W (HD)	2x36W	1222	1239	598	612	90
SAC 340/W (HD)	3x36W	1222	1239	598	612	90
SAC 440/W (HD)	4x36W	1222	1239	598	612	90

Model	Clean Room Fitting No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)
SAC 220/W (CRF) (IP54)	2x18W	612	628	598	628	90
SAC 320/W (CRF) (IP54)	3x18W	612	628	598	628	90
SAC 420/W (CRF) (IP54)	4x18W	612	628	598	628	90
SAC 140/W (CRF) (IP54)(1x4)	1x36W	1222	1254	302	334	90
SAC 240/W (CRF) (IP54)	2x36W	1222	1239	598	612	90
SAC 340/W (CRF) (IP54)	3x36W	1222	1239	598	612	90
SAC 440/W (CRF) (IP54)	4x36W	1222	1239	598	612	90

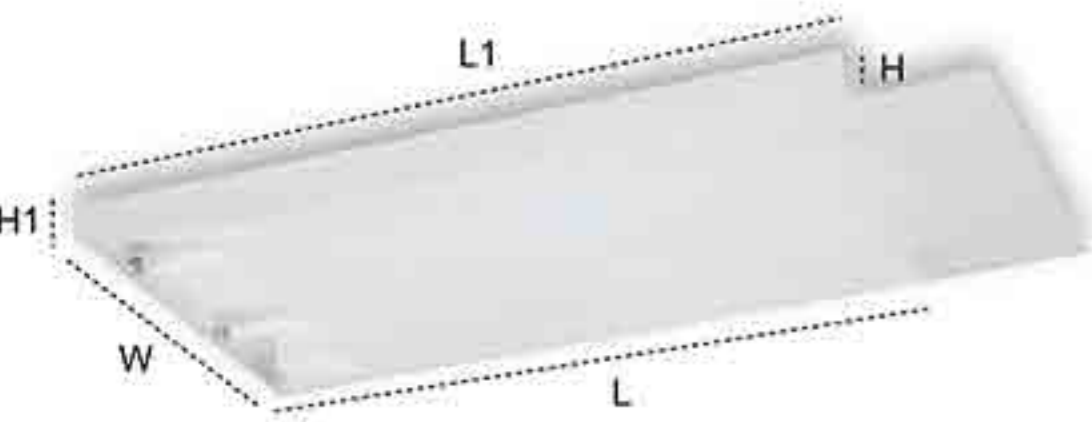
**LED Tube available upon request





AURORAS Diffused Series

T8 Diffused Fitting (Recessed)

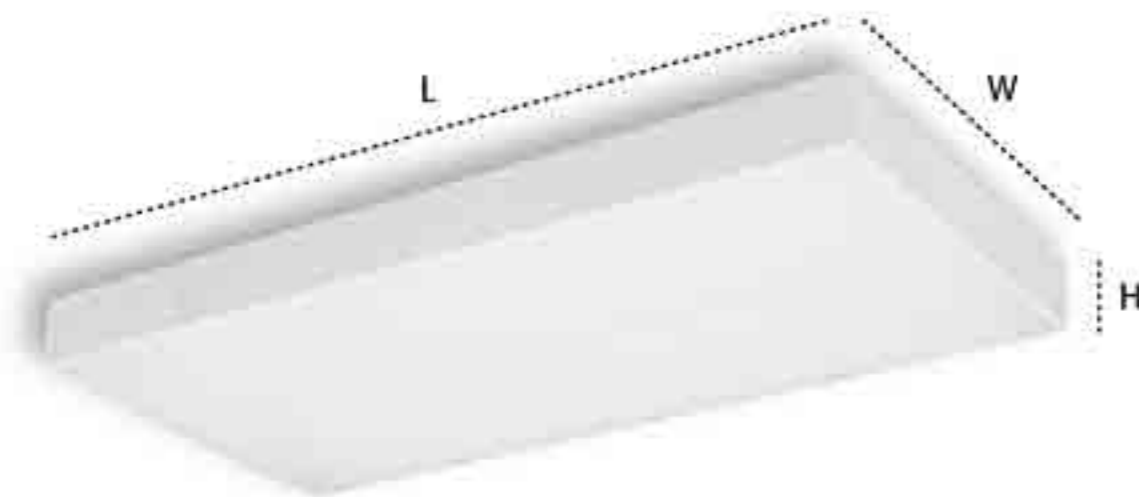


**LED Tube available upon request

Imperial							Metric						
Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	H (mm)	H1 (mm)	Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	H (mm)	H1 (mm)
SAC 120(1x2)	1x18W	602	612	302	59	97	SAC 120(1x2)	1x18W	595	612	295	59	97
SAC 220(1x2)	2x18W	602	612	302	59	97	SAC 220(1x2)	2x18W	595	612	295	59	97
SAC 220	2x18W	602	612	605	59	97	SAC 220	2x18W	595	612	595	59	97
SAC 320	3x18W	602	612	605	59	97	SAC 320	3x18W	595	612	595	59	97
SAC 420	4x18W	602	612	605	59	97	SAC 420	4x18W	595	612	595	59	97
SAC 140(1x4)	1x36W	1212	1222	302	59	97	SAC 140(1x4)	1x36W	1195	1222	295	59	97
SAC 240(1x4)	2x36W	1212	1222	302	59	97	SAC 240(1x4)	2x36W	1195	1222	295	59	97
SAC 240	2x36W	1212	1222	605	59	97	SAC 240	2x36W	1195	1222	595	59	97
SAC 340	3x36W	1212	1222	605	59	97	SAC 340	3x36W	1195	1222	595	59	97
SAC 440	4x36W	1212	1222	605	59	97	SAC 440	4x36W	1195	1222	595	59	97



T8 Diffused Fitting (Surface)

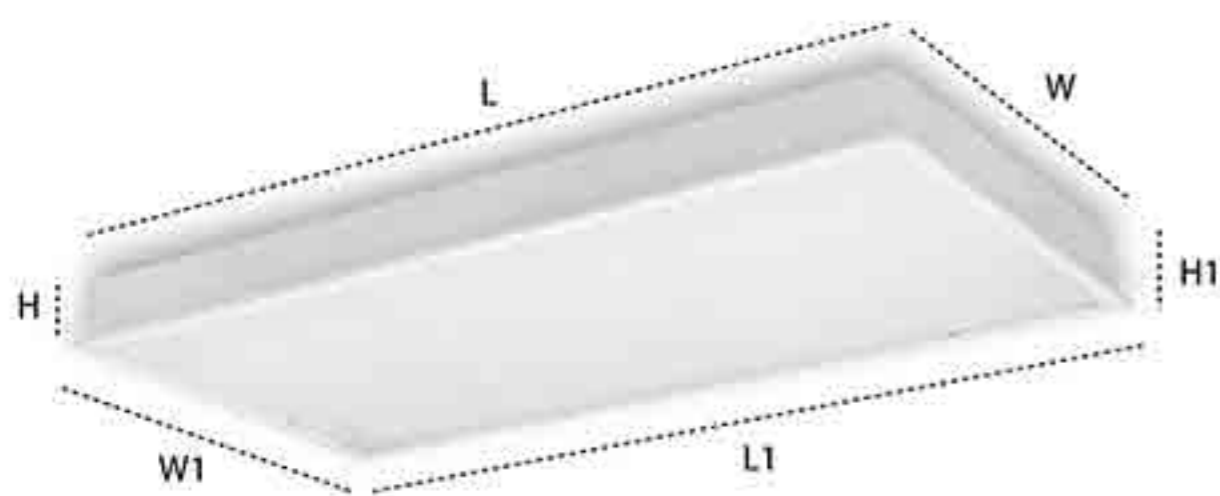


**LED Tube available upon request

Model	No. of lamp	L (mm)	W (mm)	H (mm)
SAC 120/S (1x2)	1x18W	612	302	97
SAC 220/S (1x2)	2x18W	612	302	97
SAC 220/S	2x18W	612	605	97
SAC 320/S	3x18W	612	605	97
SAC 420/S	4x18W	612	605	97
SAC 140/S (1x4)	1x36W	1222	302	97
SAC 240/S (1x4)	2x36W	1222	302	97
SAC 240/S	2x36W	1222	605	97
SAC 340/S	3x36W	1222	605	97
SAC 440/S	4x36W	1222	605	97



T8 Diffused Fitting (Wood / Plaster Ceiling)



**LED Tube available upon request

Model	No. of lamp	L (mm)	L1 (mm)	W (mm)	W1 (mm)	H (mm)	H1 (mm)
SAC 120/W (1x2)	1x18W	612	644	302	334	87	97
SAC 220/W (1x2)	2x18W	612	644	302	334	87	97
SAC 220/W	2x18W	612	644	605	637	87	97
SAC 320/W	3x18W	612	644	605	637	87	97
SAC 420/W	4x18W	612	644	605	637	87	97
SAC 140/W (1x4)	1x36W	1222	1254	302	334	87	97
SAC 240/W (1x4)	2x36W	1222	1254	302	334	87	97
SAC 240/W	2x36W	1222	1254	605	637	87	97
SAC 340/W	3x36W	1222	1254	605	637	87	97
SAC 440/W	4x36W	1222	1254	605	637	87	97



LED Tube

World Transformer of Energy Efficient and Cost Effective Solution

Features

- Up to 50% energy saving compared with fluorescents
- Instant power on&off, uniform light distribution without dark section
- Long lifetime up to 50,000hrs
- Easy installation
- No mercury material or UV radiation

Benefits

- Considerably lower energy cost
- Lowering maintenance cost
- Easy and flexible installation
- Environmental friendly

Application

For general lighting in e.g. supermarkets, offices, hotels, residential and restaurants

Warning Notice

- Do not replace conventional LFL directly with LED T8 tube.
- For existing luminaires Led Tube T8 requires the original starter to be replaced by the LED Tube Starter.
- New luminaire, LED T8 needs rewiring the fixture.
- LED T8 Tube only compatible with a magnetic ballast or direct connection to 200V/240V 50/60hz mains supply.
- The lamp is not suitable to be used in emergency luminaires designed for double-capped fluorescent lamp(s).

Specification

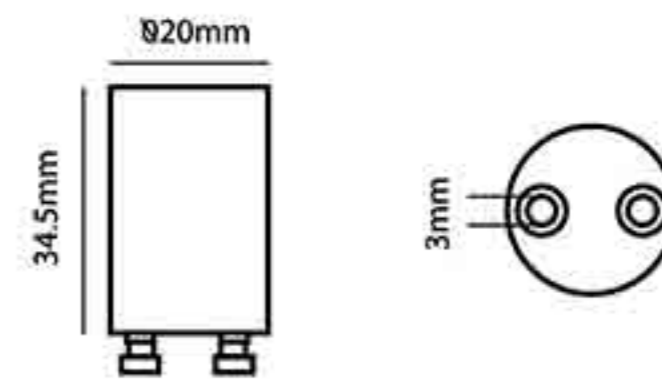
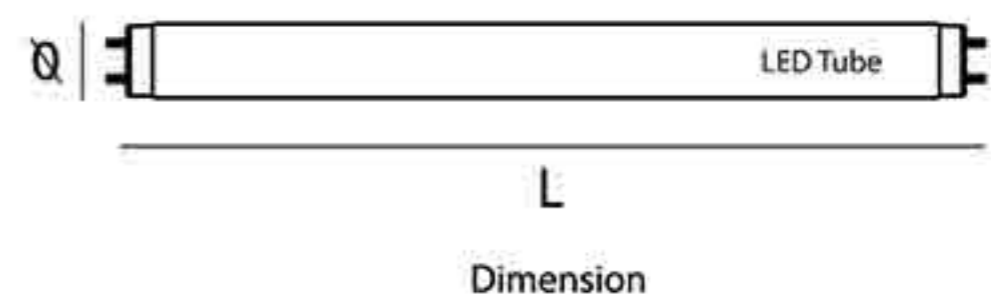
Type	Model	Dimension	Lampholder	Input Voltage	Power	Lumen	Efficiency	CCT (K)	B. Angle	Power Factor
Core Level 2	RLASJLC820923	Ø26x588	G13	200-240V 50/60Hz	8.5W	850lm	100lm/W	3000K	160	>0.90
Core Level 2	RLASJLC820928	Ø26x588	G13	200-240V 50/60Hz	8.5W	850lm	100lm/W	3500K	160	>0.90
Core Level 2	RLASJLC820924	Ø26x588	G13	200-240V 50/60Hz	8.5W	850lm	100lm/W	4000K	160	>0.90
Core Level 2	RLASJLC820926	Ø26x588	G13	200-240V 50/60Hz	8.5W	850lm	100lm/W	6500K	160	>0.90
Core Level 2	RLASJLC842133	Ø26x1198	G13	200-240V 50/60Hz	18W	2100lm	117lm/W	3000K	160	>0.95
Core Level 3	RLASJLC842138	Ø26x1198	G13	200-240V 50/60Hz	18W	2100lm	117lm/W	3500K	160	>0.95
Core Level 3	RLASJLC842134	Ø26x1198	G13	200-240V 50/60Hz	18W	2100lm	117lm/W	4000K	160	>0.95
Core Level 3	RLASJLC842136	Ø26x1198	G13	200-240V 50/60Hz	18W	2100lm	117lm/W	6500K	160	>0.95
Core Level 2	RLASJLC852433	Ø26x1499	G13	200-240V 50/60Hz	22W	2400lm	109lm/W	3000K	160	>0.95
Core Level 2	RLASJLC852434	Ø26x1499	G13	200-240V 50/60Hz	22W	2400lm	109lm/W	4000K	160	>0.95
Core Level 2	RLASJLC852436	Ø26x1499	G13	200-240V 50/60Hz	22W	2400lm	109lm/W	6500K	160	>0.95

Lumen Maintenance Factor: L(70).
Failure Fraction: F(50) 50,000Hrs.

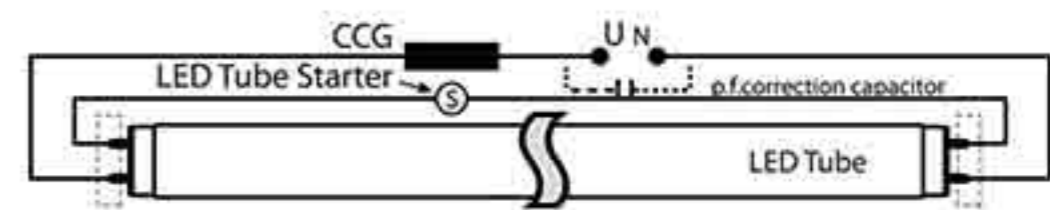
*SJ Lite reserves the right to change and amend the specification without prior notice.



SJ Series



LED Tube Starter



Wiring Diagram

* Dimming not allowed, not for use with electronic ballast gear.



SNJ LITE TRADING SDN. BHD. (Co. No. 371702-K)

No.9 Lebuhr Perusahaan Klebang 9, IGB International Industrial Park, 31200 Chemor, Perak Darul Ridzuan, Malaysia.

Tel: +605-292 3888 (Hunting Line), 291 2223 - 291 2228 Fax: +605-291 2221, 291 2222

Email: marketing@sinjaya.com
Website: www.sinjaya.com



Features

- ◆ Up to 50% energy saving compared with fluorescents
- ◆ Excellent light transmittance and uniform light distribution
- ◆ High quality GLASS tube with eco-friendly coating
- ◆ Long lifetime up to 30,000hrs
- ◆ Easy installation
- ◆ No mercury material or UV radiation

Benefits

- ◆ Considerably lower energy cost
- ◆ Lowering maintenance cost
- ◆ Easy and flexible installation
- ◆ Environmental friendly

Application

- ◆ For general lighting in e.g. supermarkets, offices, hotels, residential and restaurants



Approved by Suruhanjaya Tenaga (ST)

Dimension



Specification

* Dimming not allowed, not for use with electronic ballast gear.

Model	Dimension	Lampholder	Input Voltage	Power	Lumen	Efficiency	CCT (K)	CRI	Beam Angle	Power Factor
RLASELE721023	Ø26x588	G13	200-240V 50/60Hz	9W	900lm	100lm/W	3000K	80	300	>0.90
RLASELE721024	Ø26x588	G13	200-240V 50/60Hz	9W	900lm	100lm/W	4000K	80	300	>0.90
RLASELE721026	Ø26x588	G13	200-240V 50/60Hz	9W	900lm	100lm/W	6500K	80	300	>0.90
RLASELE741823	Ø26x1198	G13	200-240V 50/60Hz	18W	1800lm	100lm/W	3000K	80	300	>0.90
RLASELE741824	Ø26x1198	G13	200-240V 50/60Hz	18W	1800lm	100lm/W	4000K	80	300	>0.90
RLASELE741826	Ø26x1198	G13	200-240V 50/60Hz	18W	1800lm	100lm/W	6500K	80	300	>0.90

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Retrofit Lamp Installation instructions:

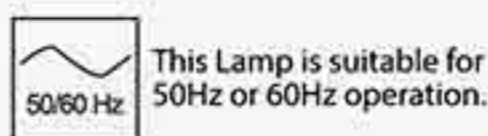
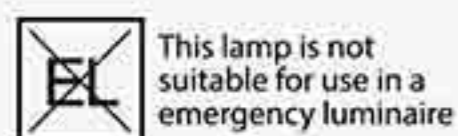
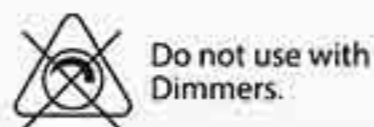
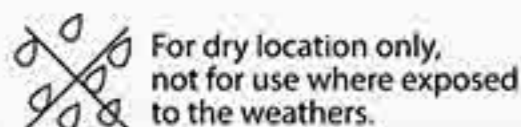
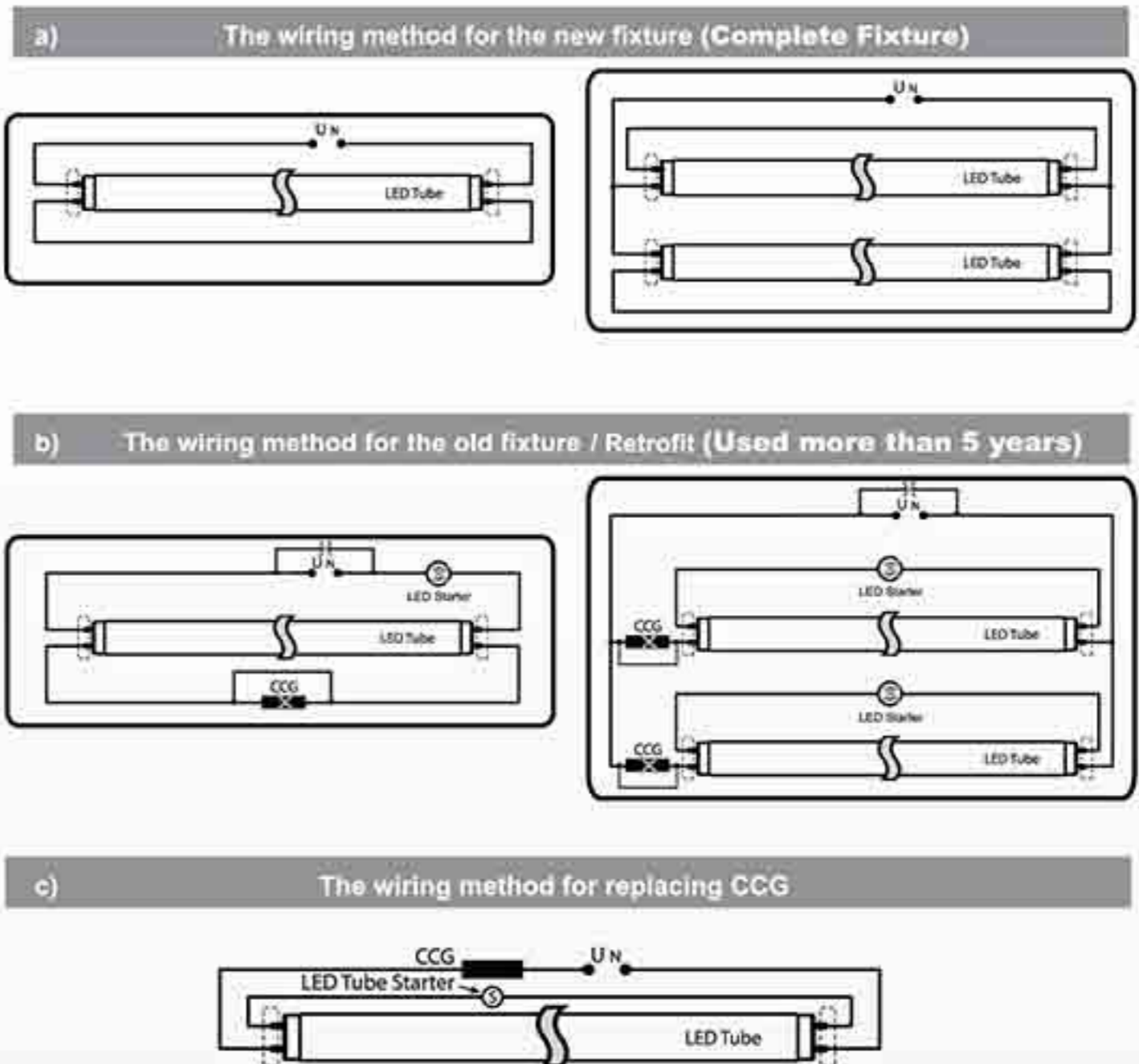


LED Glass Tube Lamp Installation instructions:

- (1) Switch off the power supply.
- (2) Turning the conventional lamp 90°.
- (3) Remove the conventional lamp.
- (4) Remove the conventional starter from the starter holder.
- (5) Insert the LED starter into the starter holder.
- (6) Insert the LED glass lamp into the lamp holder.
- (7) Secure it in position by turning the lamp 90°.
- (8) Switch on the power supply. (200-240V ~ 50/60Hz)

Installation instructions:

- (1) Switch off electricity.
- (2) and (3) Remove the conventional lamp and capacitor.
- (4) and (5) Retrofit refer to wiring method diagram b:
 - a) Bypass CCG & Replace the old starter with the LED tube starter.
- (6) Insert the LED lamp into the lamp holder.
- (7) Secure it in position by turning the lamp 90°.
- (8) Switch on electricity.



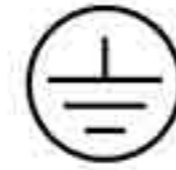
Technical | Luminaire Classifications

Electrical protection

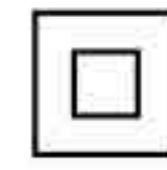
Class 1 - fittings comply with class 1 (I) earthed electrical requirements i.e. functional insulation in all parts and earth termination.

Class 2 - fittings comply with class 2 (II) double insulated electrical requirements i.e. complete insulation in all parts and earth termination. In the event of an electrical fault, no dangerous voltage can reach touchable metal parts.

Class 3 - fittings comply with class (III) triple insulated electrical requirements i.e. Where protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated.



Class 1



Class 2



Class 3

Degree of protection

The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers. The first number indicates the measure of protection against the ingress of solids. The second number indicates the measure of protection against the ingress of liquids.

First identification number. Protection against the ingress of solids

Symbol	Number	Measure of protection	Test
	IP 2X	Against foreign bodies $\geq 12.5\text{mm } \varnothing$	Ball 12mm \varnothing and finger test
	IP 3X	Against foreign bodies $\geq 2.5\text{mm } \varnothing$	Steel wire 2.5mm \varnothing
	IP 4X	Against foreign bodies $\geq 1.0\text{mm } \varnothing$	Steel wire 1.0mm \varnothing
⊞	IP 5X	Against harmful dust deposits (dust proof)	Talcum powder - particles 1 $\mu\text{m } \varnothing$
⊞	IP 6X	Against any entry of dust (dust tight)	Talcum powder - particles 1 $\mu\text{m } \varnothing$

Second identification number. Protection against the ingress of liquids

Symbol	Number	Measure of protection	Test
	IP X1	Against falling drops of water	Water falling vertically
☐	IP X2	Against falling drops of water	Water falling up to 15° from vertical
☐	IP X3	Against spraying water (rain proof)	Water sprayed at 60° from vertical
☐	IP X4	Against splashed water (splash proof)	Water from all directions
☐	IP X5	Against jets of water jets	Water from all directions projected by a nozzle
	IP X6	Against heavy seas or powerful water jets	Water from all directions projected by a nozzle
☐	IP X7	Against temporary immersion effects, and not for continuous underwater application	Immersion in water < 1m for 30 minutes
☐ ...m	IP X8	Against continuous submersion (pressure water-tight)	Immersion in water $\geq 1\text{m}$ for 30 minutes - max. depth tested indicated after symbol

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Photometric Data

Polar Diagram of luminous intensity distribution.

These provide a graphic representation of the distribution of light from a luminaire. Often referred to as polar curves, they indicate the intensity, measured in candelas (cd) per 1000 lumens.

Photometrics Demonstration

Photometric measurements indicate how a particular lamp or luminaire "sends out" light. The actual photometric data describe a luminaire's light distribution in terms of intensity (candela) and direction (degrees). Graphic representation of this information, referred to as photometric distribution or candlepower distribution curves, provides intuitive information, indicating how the luminaire will perform in a space. The actual candela values enable calculations to predict light levels and/or brightness level within a space.

Polar Diagram

The polar diagram is the graphic representation of the luminous intensity in different directions.

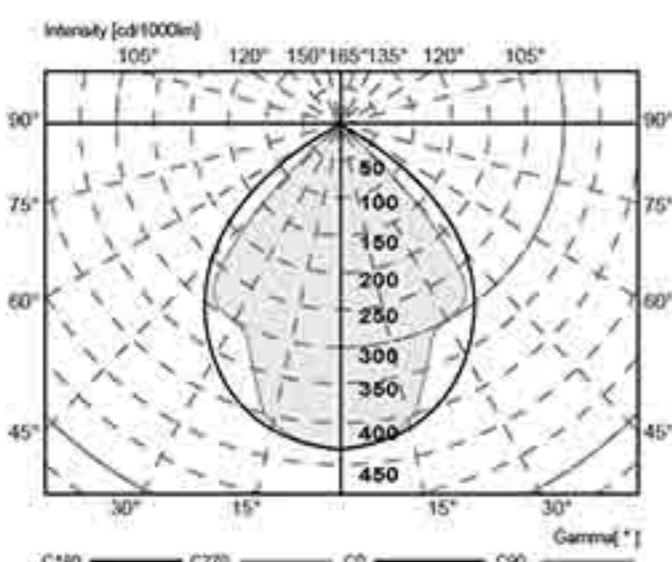
The value of the luminous intensity is indicated in candelas per 1000 lumen (cd/klm). This value must be multiplied by the luminous flux of the used lamp(s). Example: 1000 cd/klm corresponds with 400 cd with a 400 lm lamp and with 1100 cd with an 1100 lm lamp.

If two curves are plotted in one diagram, the intensity distributions are different in two vertical planes or in all four half planes : C0, C90, C180 and C270.

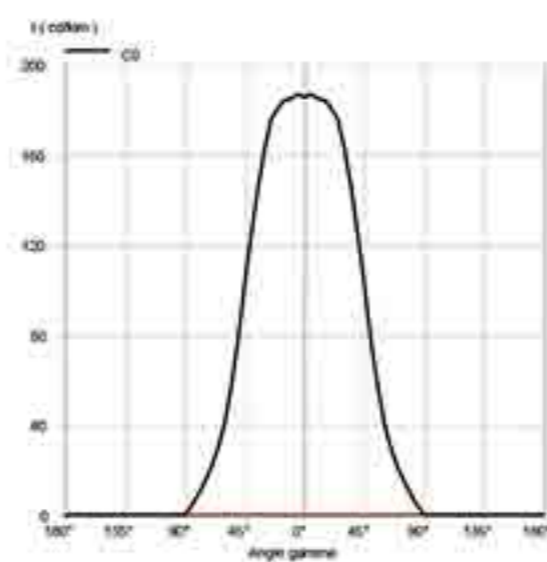
C0 is one of the two half planes perpendicular to the axis of the lamp. The half plane in which the highest luminous intensity has been measured is taken as C0 in Lumiance data files.

Gamma(°) is the angle between the optical axis of the luminaire and the direction in which a particular luminous intensity value has been measured.

light distribution:



Polar Diagram



Cartesian Diagram

Cartesian Diagram

The cartesian diagram is the graphic representation of the luminous intensity in different directions.

The difference with the polar diagram is that rectangular coordinates are used in the Cartesian diagram instead of polar coordinates. The scales are therefore easier to read, but the shape of the light distribution is more difficult to assess.

The values are indicated in candelas per 1000 lumen (cd/klm). This value must be multiplied by the luminous flux of the used lamps. Example: 1000 cd/klm corresponds with 400 cd with a 400 lm lamp and with 1100 cd with an 11000 lm lamp.

If two curves are plotted in one diagram, the distribution is different in two vertical planes.

TM5 Utilization Factors

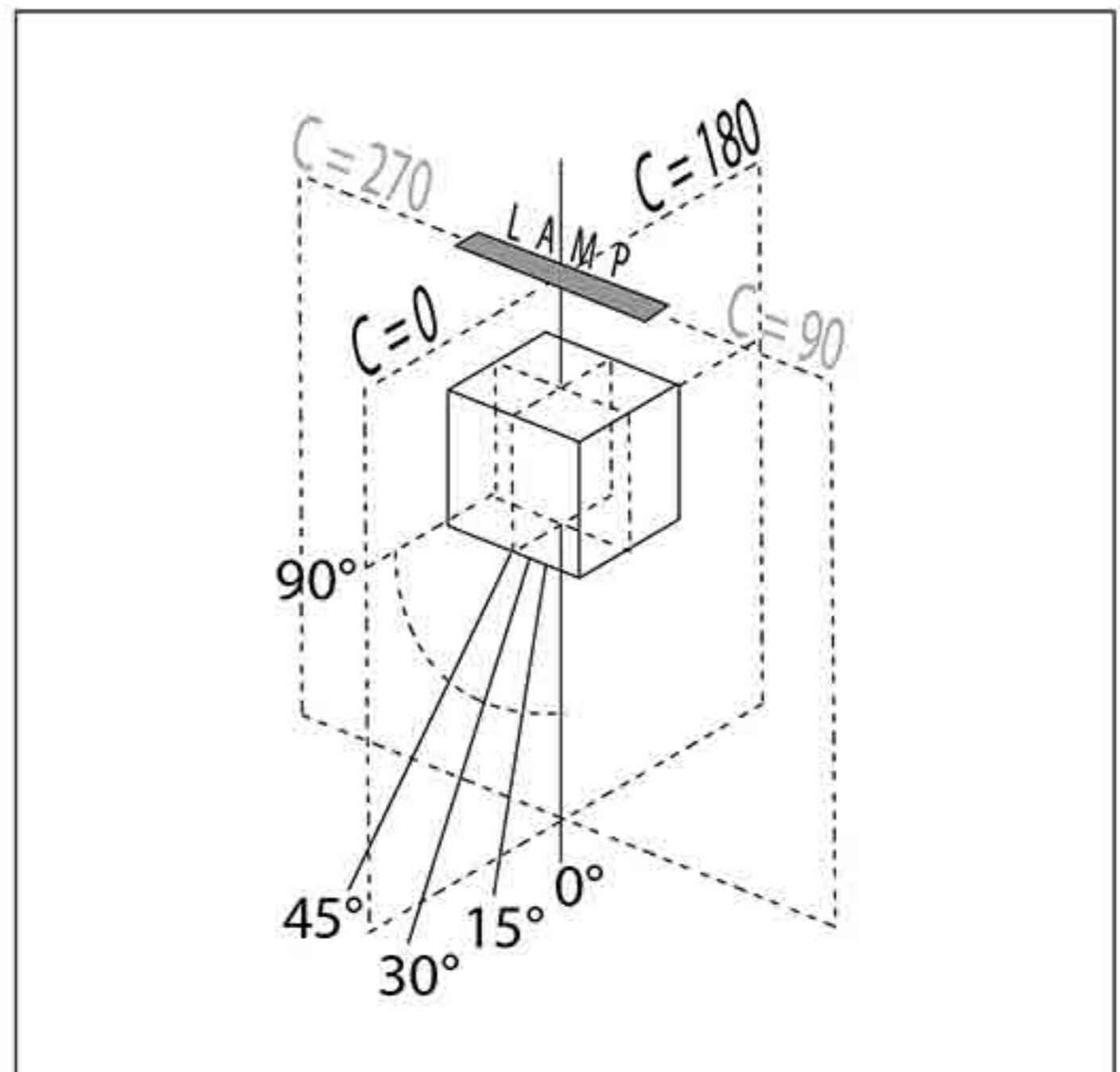
Utilization factors			LOR =72.2%			DLOR =72.2%			ULOR =0.0%			
Room reflection			Room index									
C	W	F	0.75	1	1.25	1.5	2	2.5	3	4	5	
0.7	0.5	0.2	57	62	66	68	72	74	76	77	79	
	0.3		53	58	62	65	69	72	73	76	77	
	0.1		50	56	60	63	67	69	71	74	76	
0.5	0.5	0.2	56	61	64	67	70	72	73	75	76	
	0.3		52	58	61	64	68	70	71	73	75	
	0.1		50	55	59	62	66	68	70	72	73	
0.3	0.5	0.2	55	60	63	65	68	70	71	72	73	
	0.3		52	57	60	63	66	68	69	71	72	
	0.1		50	55	58	61	64	67	68	70	71	
0.0	0.0	0.0	49	53	57	59	62	64	65	67	68	
				SHR NOM =1.50			SHR MAX =1.52			SHR MAX		
				TR =1.61								

Utilization Factor (UF)

The Utilization Factor indicates which percentage of the light reaches the working surface. The UF depends on the shape of the room (see room index) and on the reflection factors of reflecting surfaces.

Example: From the table, we can read that UF = 78% with room index k = 2 and with reflecting factors ceiling 70% Wall 50% Floor 20%.

With UF = 78%, the average illuminance is $E = 998 \text{ lx}$ if 10 fixtures with 4 lamps of 3200 lm are placed in a room of 100m^2 .
 $(E = 0.78 \times 10 \times 4 \times 3200/100 = 998 \text{ lx})$



The tables provided use luminaire Photometric data that has been measured and tested in accordance with British Standard 5225 Parts 1 & 3 'Photometric Data for Luminaires'.

Additional photometric data can be provided upon request. All data is also available in CIBSE TM14, EULUMDAT and IES NA formats.

A complementary lighting design service is also available, to provide guidance and recommendations and to ensure lighting solutions are tailored to customer requirements. Supporting this service are the latest computer software facilities enabling accurate predictions and performance checks to be carried out.

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