

S1MB GENERAL CHARACTERISTICS

Applications	Street lighting
Optics	N: Narrow V14; R: Regular R-V25; A: Regular Comfort A-V05; M: M-L10; W: Wide W-V07; B: Wide B-V08; D: Extra Wide V20; F: Front-Back V10; E: Forward Wide E-L01;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
CRI and color tolerance (SDCM)	Minimum 70, on request 80 Colour tolerance between several luminaires Max. 5 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK08
IP Grade	IP66
Wiring	Internal connections
Dimensions	576 x 312 x 296 mm
Weight	8.5 kg

ELECTRICAL CHARACTERISTICS

Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,97 (at full load)
Control system	1-10V, "virtual midnight" automatic dimming system up to 5 steps, CLO and DALI-2 function; Zhaga 18 on request
Overvoltage protection	Automatic dimming system of the 'virtual midnight' type with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18 on request
Operating temperature	-20°C +40°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr

MATERIALS

Fixing	Post top and bracket mounting Suitable for 40 to 76 mm diameter poles
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium painted RAL 9006
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

The characteristics of the product are subject to change and will be confirmed when the order is placed.
The values indicated are to be considered with a tolerance of +/- 5%.

POWER AND OPTICAL FLUX I N
(T_{amb}=25°C)

		4000K		3000K		
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
S1MBG __ 032NA	24,0	3.804	159	24,0	3.614	151
S1MBG __ 052NA	29,0	4.509	155	29,0	4.284	148
S1MBG __ 072NA	35,0	5.358	153	35,0	5.090	145
S1MBG __ 092NA	46,0	6.908	150	46,0	6.562	143
S1MBG __ 112NA	53,0	7.786	147	53,0	7.397	140
S1MBG __ 122NA	56,0	8.278	148	56,0	7.864	140
S1MBG __ 132NA	60,0	8.707	145	60,0	8.272	138
S1MBG __ 152NA	67,0	9.204	137	67,0	8.744	131
S1MBG __ 162NA	71,0	9.776	138	71,0	9.287	131
S1MBG __ 172NA	76,0	10.359	136	76,0	9.841	129
S1MBG __ 182NA	81,0	11.040	136	81,0	10.488	129
S1MBG __ 192NA	86,0	11.574	135	86,0	10.996	128
S1MBG __ 202NA	91,0	12.105	133	91,0	11.500	126
S1MBG __ 212NA	95,0	12.586	132	95,0	11.957	126
S1MBG __ 222NA	100,0	13.135	131	100,0	12.478	125
S1MBG __ 232NA	109,0	14.140	130	109,0	13.433	123
S1MBG __ 242NA	114,0	14.594	128	114,0	13.864	122
S1MBG __ 252NA	120,0	15.303	128	120,0	14.538	121

POWER AND OPTICAL FLUX I R
(T_{amb}=25°C)

4000K					3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Flux (lm)	Efficiency
S1MBG __ 032NA	24,0	3.792	158	24,0	3.602	150
S1MBG __ 052NA	29,0	4.495	155	29,0	4.270	147
S1MBG __ 072NA	35,0	5.341	153	35,0	5.074	145
S1MBG __ 092NA	46,0	6.886	150	46,0	6.542	142
S1MBG __ 112NA	53,0	7.762	146	53,0	7.374	139
S1MBG __ 122NA	56,0	8.252	147	56,0	7.839	140
S1MBG __ 132NA	60,0	8.680	145	60,0	8.246	137
S1MBG __ 152NA	67,0	9.175	137	67,0	8.716	130
S1MBG __ 162NA	71,0	9.745	137	71,0	9.258	130
S1MBG __ 172NA	76,0	10.327	136	76,0	9.811	129
S1MBG __ 182NA	81,0	11.005	136	81,0	10.455	129
S1MBG __ 192NA	86,0	11.538	134	86,0	10.961	127
S1MBG __ 202NA	91,0	12.067	133	91,0	11.464	126
S1MBG __ 212NA	95,0	12.547	132	95,0	11.920	125
S1MBG __ 222NA	100,0	13.094	131	100,0	12.439	124
S1MBG __ 232NA	109,0	14.096	129	109,0	13.391	123
S1MBG __ 242NA	114,0	14.548	128	114,0	13.821	121
S1MBG __ 252NA	120,0	15.255	127	120,0	14.492	121

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

POWER AND OPTICAL FLUX I A
 (T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
S1MBG __ 032NA	24,0	3.881	162	24,0	3.687
S1MBG __ 052NA	29,0	4.601	159	29,0	4.371
S1MBG __ 072NA	35,0	5.467	156	35,0	5.193
S1MBG __ 092NA	46,0	7.048	153	46,0	6.696
S1MBG __ 112NA	53,0	7.945	150	53,0	7.548
S1MBG __ 122NA	56,0	8.446	151	56,0	8.024
S1MBG __ 132NA	60,0	8.885	148	60,0	8.440
S1MBG __ 152NA	67,0	9.391	140	67,0	8.922
S1MBG __ 162NA	71,0	9.975	140	71,0	9.476
S1MBG __ 172NA	76,0	10.570	139	76,0	10.042
S1MBG __ 182NA	81,0	11.264	139	81,0	10.701
S1MBG __ 192NA	86,0	11.810	137	86,0	11.219
S1MBG __ 202NA	91,0	12.351	136	91,0	11.734
S1MBG __ 212NA	95,0	12.843	135	95,0	12.200
S1MBG __ 222NA	100,0	13.402	134	100,0	12.732
S1MBG __ 232NA	109,0	14.428	132	109,0	13.707
S1MBG __ 242NA	114,0	14.891	131	114,0	14.146
S1MBG __ 252NA	120,0	15.614	130	120,0	14.834

POWER AND OPTICAL FLUX I M
 (T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
S1MBG __ 032NA	24,0	3.849	160	24,0	3.656
S1MBG __ 052NA	29,0	4.562	157	29,0	4.334
S1MBG __ 072NA	35,0	5.421	155	35,0	5.150
S1MBG __ 092NA	46,0	6.989	152	46,0	6.639
S1MBG __ 112NA	53,0	7.878	149	53,0	7.484
S1MBG __ 122NA	56,0	8.375	150	56,0	7.957
S1MBG __ 132NA	60,0	8.810	147	60,0	8.369
S1MBG __ 152NA	67,0	9.312	139	67,0	8.846
S1MBG __ 162NA	71,0	9.891	139	71,0	9.396
S1MBG __ 172NA	76,0	10.481	138	76,0	9.957
S1MBG __ 182NA	81,0	11.169	138	81,0	10.611
S1MBG __ 192NA	86,0	11.710	136	86,0	11.125
S1MBG __ 202NA	91,0	12.247	135	91,0	11.635
S1MBG __ 212NA	95,0	12.734	134	95,0	12.098
S1MBG __ 222NA	100,0	13.290	133	100,0	12.625
S1MBG __ 232NA	109,0	14.307	131	109,0	13.591
S1MBG __ 242NA	114,0	14.765	130	114,0	14.027
S1MBG __ 252NA	120,0	15.483	129	120,0	14.709

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

POWER AND OPTICAL FLUX I W
 (T_{amb}=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
S1MBG __ 032NA	24,0	3.854	161	24,0	3.661	153
S1MBG __ 052NA	29,0	4.568	158	29,0	4.340	150
S1MBG __ 072NA	35,0	5.428	155	35,0	5.156	147
S1MBG __ 092NA	46,0	6.998	152	46,0	6.648	145
S1MBG __ 112NA	53,0	7.888	149	53,0	7.494	141
S1MBG __ 122NA	56,0	8.386	150	56,0	7.967	142
S1MBG __ 132NA	60,0	8.821	147	60,0	8.380	140
S1MBG __ 152NA	67,0	9.324	139	67,0	8.858	132
S1MBG __ 162NA	71,0	9.903	139	71,0	9.408	133
S1MBG __ 172NA	76,0	10.495	138	76,0	9.970	131
S1MBG __ 182NA	81,0	11.184	138	81,0	10.624	131
S1MBG __ 192NA	86,0	11.725	136	86,0	11.139	130
S1MBG __ 202NA	91,0	12.263	135	91,0	11.650	128
S1MBG __ 212NA	95,0	12.751	134	95,0	12.113	128
S1MBG __ 222NA	100,0	13.307	133	100,0	12.641	126
S1MBG __ 232NA	109,0	14.325	131	109,0	13.609	125
S1MBG __ 242NA	114,0	14.784	130	114,0	14.045	123
S1MBG __ 252NA	120,0	15.503	129	120,0	14.727	123

POWER AND OPTICAL FLUX I B
 (T_{amb}=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
S1MBG __ 032NA	24,0	3.790	158	24,0	3.600	150
S1MBG __ 052NA	29,0	4.492	155	29,0	4.268	147
S1MBG __ 072NA	35,0	5.338	153	35,0	5.071	145
S1MBG __ 092NA	46,0	6.882	150	46,0	6.538	142
S1MBG __ 112NA	53,0	7.757	146	53,0	7.369	139
S1MBG __ 122NA	56,0	8.247	147	56,0	7.835	140
S1MBG __ 132NA	60,0	8.675	145	60,0	8.241	137
S1MBG __ 152NA	67,0	9.169	137	67,0	8.711	130
S1MBG __ 162NA	71,0	9.739	137	71,0	9.252	130
S1MBG __ 172NA	76,0	10.321	136	76,0	9.805	129
S1MBG __ 182NA	81,0	10.998	136	81,0	10.448	129
S1MBG __ 192NA	86,0	11.531	134	86,0	10.955	127
S1MBG __ 202NA	91,0	12.060	133	91,0	11.457	126
S1MBG __ 212NA	95,0	12.539	132	95,0	11.912	125
S1MBG __ 222NA	100,0	13.086	131	100,0	12.432	124
S1MBG __ 232NA	109,0	14.088	129	109,0	13.383	123
S1MBG __ 242NA	114,0	14.539	128	114,0	13.812	121
S1MBG __ 252NA	120,0	15.246	127	120,0	14.484	121

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

POWER AND OPTICAL FLUX I D

(T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
S1MBG __ 032NA	24,0	3.846	160	24,0	3.653
S1MBG __ 052NA	29,0	4.559	157	29,0	4.331
S1MBG __ 072NA	35,0	5.417	155	35,0	5.146
S1MBG __ 092NA	46,0	6.983	152	46,0	6.634
S1MBG __ 112NA	53,0	7.872	149	53,0	7.478
S1MBG __ 122NA	56,0	8.369	149	56,0	7.950
S1MBG __ 132NA	60,0	8.803	147	60,0	8.363
S1MBG __ 152NA	67,0	9.305	139	67,0	8.839
S1MBG __ 162NA	71,0	9.883	139	71,0	9.389
S1MBG __ 172NA	76,0	10.473	138	76,0	9.949
S1MBG __ 182NA	81,0	11.161	138	81,0	10.603
S1MBG __ 192NA	86,0	11.701	136	86,0	11.116
S1MBG __ 202NA	91,0	12.238	134	91,0	11.626
S1MBG __ 212NA	95,0	12.724	134	95,0	12.088
S1MBG __ 222NA	100,0	13.279	133	100,0	12.615
S1MBG __ 232NA	109,0	14.295	131	109,0	13.580
S1MBG __ 242NA	114,0	14.754	129	114,0	14.016
S1MBG __ 252NA	120,0	15.471	129	120,0	14.697

POWER AND OPTICAL FLUX I F

(T_{amb}=25°C)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
S1MBG __ 032NA	24,0	3.840	160	24,0	3.648
S1MBG __ 052NA	29,0	4.551	157	29,0	4.324
S1MBG __ 072NA	35,0	5.408	155	35,0	5.138
S1MBG __ 092NA	46,0	6.973	152	46,0	6.624
S1MBG __ 112NA	53,0	7.860	148	53,0	7.467
S1MBG __ 122NA	56,0	8.356	149	56,0	7.938
S1MBG __ 132NA	60,0	8.789	146	60,0	8.350
S1MBG __ 152NA	67,0	9.290	139	67,0	8.826
S1MBG __ 162NA	71,0	9.867	139	71,0	9.374
S1MBG __ 172NA	76,0	10.457	138	76,0	9.934
S1MBG __ 182NA	81,0	11.143	138	81,0	10.586
S1MBG __ 192NA	86,0	11.683	136	86,0	11.099
S1MBG __ 202NA	91,0	12.219	134	91,0	11.608
S1MBG __ 212NA	95,0	12.705	134	95,0	12.069
S1MBG __ 222NA	100,0	13.259	133	100,0	12.596
S1MBG __ 232NA	109,0	14.273	131	109,0	13.559
S1MBG __ 242NA	114,0	14.731	129	114,0	13.994
S1MBG __ 252NA	120,0	15.447	129	120,0	14.674

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

POWER AND OPTICAL FLUX I E
(T_{amb}=25°C)

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
S1MBG __ 032NA	24,0	3.697	154	24,0	3.512	146
S1MBG __ 052NA	29,0	4.383	151	29,0	4.163	144
S1MBG __ 072NA	35,0	5.207	149	35,0	4.947	141
S1MBG __ 092NA	46,0	6.714	146	46,0	6.378	139
S1MBG __ 112NA	53,0	7.568	143	53,0	7.190	136
S1MBG __ 122NA	56,0	8.046	144	56,0	7.643	136
S1MBG __ 132NA	60,0	8.463	141	60,0	8.040	134
S1MBG __ 152NA	67,0	8.946	134	67,0	8.498	127
S1MBG __ 162NA	71,0	9.501	134	71,0	9.026	127
S1MBG __ 172NA	76,0	10.069	132	76,0	9.565	126
S1MBG __ 182NA	81,0	10.730	132	81,0	10.193	126
S1MBG __ 192NA	86,0	11.250	131	86,0	10.687	124
S1MBG __ 202NA	91,0	11.765	129	91,0	11.177	123
S1MBG __ 212NA	95,0	12.233	129	95,0	11.622	122
S1MBG __ 222NA	100,0	12.767	128	100,0	12.128	121
S1MBG __ 232NA	109,0	13.744	126	109,0	13.056	120
S1MBG __ 242NA	114,0	14.184	124	114,0	13.475	118
S1MBG __ 252NA	120,0	14.874	124	120,0	14.130	118

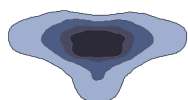
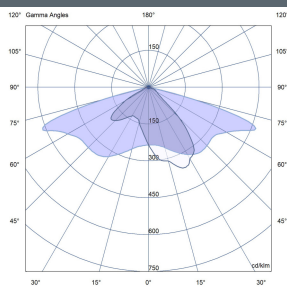
** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

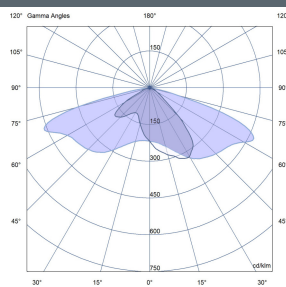
OPTICS

Narrow V14



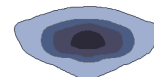
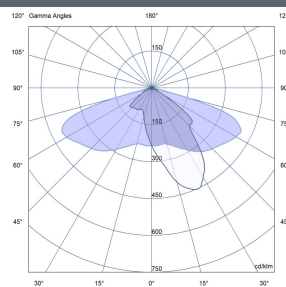
Asymmetrical street optics - Narrow beam
 $L / H = 0,5 \div 0,9$

Regular R-V25



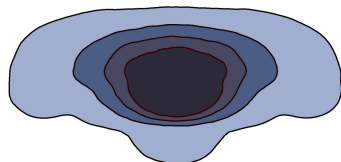
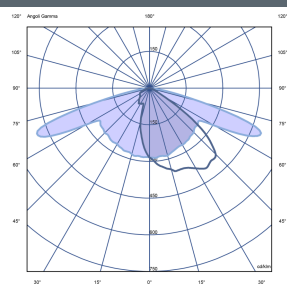
Asymmetrical street optics - Medium beam
 $L / H = 0,9 \div 1,1$

Regular Comfort A-V05



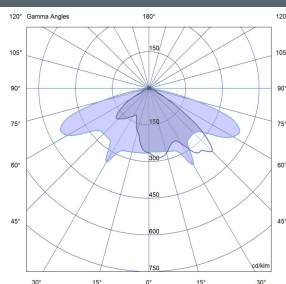
Asymmetrical Optics - Comfort
 $L / H = 1,0$

M-L10



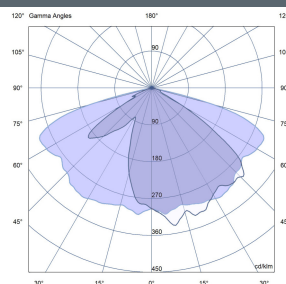
$L / H = 1,0$

Wide W-V07



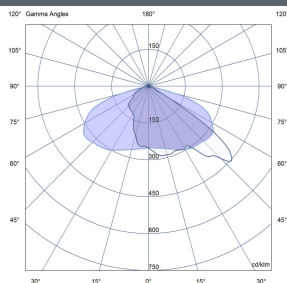
Asymmetrical street optics - Wide beam
 $L / H = 1,1 \div 1,3$

Wide B-V08



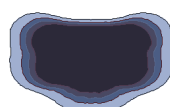
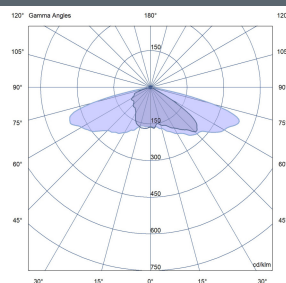
Asymmetrical street optics - Wide beam
 $L / H = 1,2 \div 1,5$

Extra Wide V20



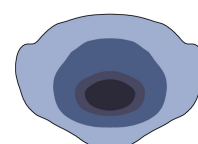
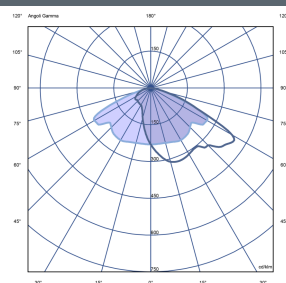
Asymmetrical optics - Very wide beam
 $L / H = 1,3 \div 1,6$

Front-Back V10



Asymmetrical Street Optics - Front-Back
 $L / H = 1,2 \div 1,5$

Forward Wide E-L01



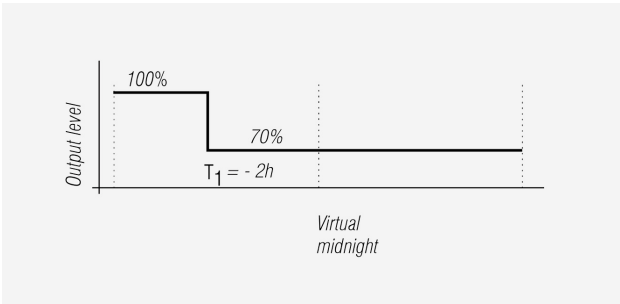
Asymmetrical optics - Very wide beam
 $L / H = 1,5-2,0$

** Flux tolerance +/- 5%.

Other powers and flows on request.
 External connections on request.

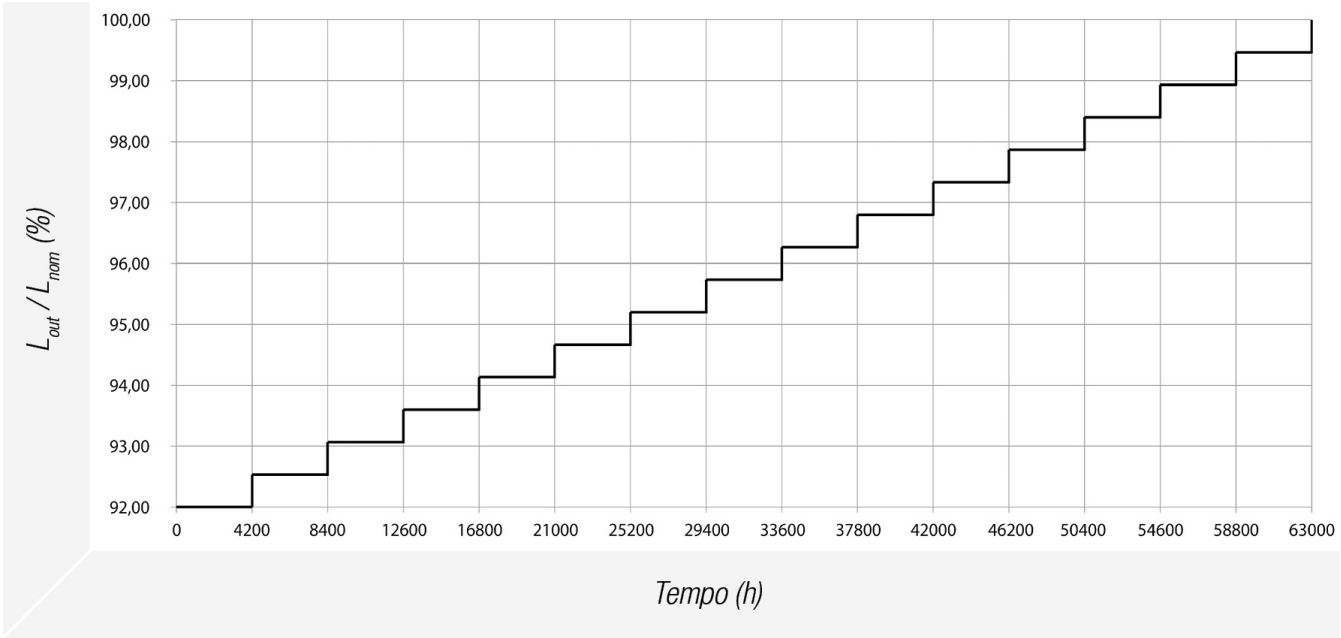
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



** Flux tolerance +/- 5%.
 Other powers and flows on request.
 External connections on request.

CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Dimming	Various
S1MBG	R	8	XX	2	N	A
	N Narrow V14	1 Cool White 5,500K	03 24	2 Class II (220-240V)	N No Dimming	A
	R Regular R-V25	2 Warm White 3,000K	05 29	Versions available on request	M Virtual Midnight**	B Extra Suppressor
	A Regular Comfort A-V05	8 Neutral White 4,000K	07 35		Z Virtual Midnight** + CLO	
	M M-L10	Versions available on request	09 46	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	W Wide W-V07		11 53		Y Zhaga 18 + Virtual Midnight** + CLO	
	B Wide B-V08	5 Warm White 2,700K	12 56			
	D Extra Wide V20	9 Extra Warm White 2,200K	13 60			
	F Front-Back V10		15 67			
	E Forward Wide E-L01		16 71			
			17 76			
			18 81			
			19 86			
			20 91			
			21 95			
			22 100			
			23 109			
			24 114			
			25 120			

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.