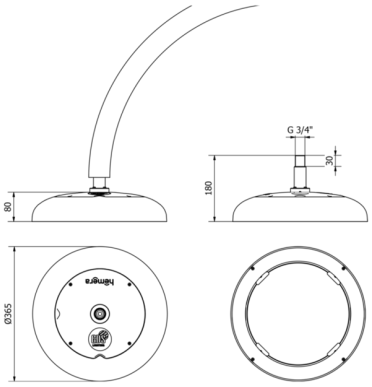
Product Data Sheet

Street lighting





IP66 IK09 CE ULR 0% CIE >95% CB

HEMERA S GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	**1I:** Regular I-L15; **1L:** Regular Low TI L-L19; **1O:** Wide O-L23; **1P:** Narrow P-L24; **1Q:** Extra Wide Q-L17; **1H:** Asymmetrical H-L20; **2H:** Asymmetric H-L12; **1T:** Extra-Wide Optics 1T-L25; **1X:** Front-Back Wide Optics 1X-L26; **1Y:** Front-Back Narrow Optics 1Y-L34; **1U:** Roto-Wide U-V04; **11:** Pedestrian Right 3-L21; **12:** Pedestrian Left 4-L22;
Colour temperature	**8:** Neutral White 4,000K; **2:** Warm White 3,000K; **5:** Warm White 2,700K; **9:** Extra Warm White 2,200K;
CRI and color tolerance (SDCM)	Greater than or equal to 70 and S/P ratio ≥ 1.10. (as defined in UNI11248:2016) Colour tolerance between several luminaires typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II Class I
Degree of protection	IK09
IP Grade	IP66
Wiring	Outgoing cable + connector
Dimensions	diam 365 x 80mm
Weight	5 kg
ELECTRICAL CHARACTERISTICS	
Power supply	220-240 V 50/60 Hz; 120-270 V su richiesta
Power factor	> 0,95 (at full load)
Control system	"Virtual midnight" automatic dimming system with up to 5 steps, CLO function. 1-10, DALI-2, Zhaga 18, Sentronic Connect
Overvoltage protection	10kV differential mode, 10kV common mode, SPD 5kA on request
Operating temperature	-35°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr

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MATERIALS	
Fixing	3/4-inch male gas fitting
Heatsink	Die-cast aluminum; Dark Coal RAL9005 Metallic finish
Frame	Die-cast aluminum; Dark Coal RAL9005 Metallic finish
Optics	Multi-layer PMMA lenses
Screen	4 mm thick toughened flat glass resistant to thermal shock and impact

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POWER AND OPTICAL FLUX | 1I (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.730	133	1.923	148	1.978	152	2.167	167
HESB___012_____	16,0	2.145	134	2.384	149	2.452	153	2.686	168
HESB___022_____	19,5	2.619	134	2.911	149	2.994	154	3.280	168
HESB___032_____	23,0	3.075	134	3.418	149	3.516	153	3.851	167
HESB___042_____	26,0	3.690	142	4.101	158	4.218	162	4.620	178
HESB___052_____	29,0	4.083	141	4.538	156	4.667	161	5.113	176
HESB___062_____	36,0	4.998	139	5.555	154	5.714	159	6.259	174
HESB___072_____	42,0	5.799	138	6.445	153	6.628	158	7.261	173
HESB___082_____	49,0	6.566	134	7.298	149	7.506	153	8.222	168
HESB___092_____	55,0	7.290	133	8.102	147	8.333	152	9.129	166

POWER AND OPTICAL FLUX | 1L (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.756	135	1.951	150	2.007	154	2.198	169
HESB___012_____	16,0	2.176	136	2.419	151	2.488	156	2.725	170
HESB___022_____	19,5	2.657	136	2.953	151	3.038	156	3.327	171
HESB___032_____	23,0	3.120	136	3.468	151	3.567	155	3.907	170
HESB___042_____	26,0	3.743	144	4.161	160	4.279	165	4.688	180
HESB___052_____	29,0	4.143	143	4.604	159	4.736	163	5.187	179
HESB___062_____	36,0	5.071	141	5.636	157	5.797	161	6.350	176
HESB___072_____	42,0	5.883	140	6.539	156	6.725	160	7.367	175
HESB___082_____	49,0	6.662	136	7.404	151	7.615	155	8.342	170
HESB___092_____	55,0	7.397	134	8.221	149	8.455	154	9.262	168

POWER AND OPTICAL FLUX | 1O (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.710	132	1.901	146	1.955	150	2.141	165
HESB___012_____	16,0	2.120	133	2.356	147	2.423	151	2.654	166
HESB___022_____	19,5	2.588	133	2.877	148	2.959	152	3.241	166
HESB___032_____	23,0	3.039	132	3.378	147	3.474	151	3.806	165
HESB___042_____	26,0	3.646	140	4.052	156	4.168	160	4.565	176
HESB___052_____	29,0	4.035	139	4.484	155	4.612	159	5.052	174
HESB___062_____	36,0	4.939	137	5.490	153	5.646	157	6.185	172
HESB___072_____	42,0	5.730	136	6.369	152	6.550	156	7.175	171
HESB___082_____	49,0	6.488	132	7.211	147	7.417	151	8.125	166
HESB___092_____	55,0	7.204	131	8.007	146	8.235	150	9.021	164

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Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX | 1P (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.727	133	1.920	148	1.975	152	2.163	166
HESB___012_____	16,0	2.141	134	2.380	149	2.448	153	2.681	168
HESB___022_____	19,5	2.614	134	2.906	149	2.988	153	3.274	168
HESB___032_____	23,0	3.070	133	3.412	148	3.509	153	3.844	167
HESB___042_____	26,0	3.683	142	4.093	157	4.210	162	4.612	177
HESB___052_____	29,0	4.076	141	4.530	156	4.659	161	5.103	176
HESB___062_____	36,0	4.989	139	5.545	154	5.703	158	6.247	174
HESB___072_____	42,0	5.788	138	6.433	153	6.617	158	7.248	173
HESB___082_____	49,0	6.554	134	7.285	149	7.492	153	8.207	167
HESB___092_____	55,0	7.277	132	8.088	147	8.318	151	9.112	166

POWER AND OPTICAL FLUX | 1Q (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.552	119	1.726	133	1.775	137	1.944	150
HESB___012_____	16,0	1.925	120	2.139	134	2.200	138	2.410	151
HESB___022_____	19,5	2.350	121	2.612	134	2.686	138	2.942	151
HESB___032_____	23,0	2.759	120	3.067	133	3.154	137	3.455	150
HESB___042_____	26,0	3.310	127	3.679	142	3.784	146	4.145	159
HESB___052_____	29,0	3.663	126	4.071	140	4.187	144	4.587	158
HESB___062_____	36,0	4.484	125	4.984	138	5.126	142	5.615	156
HESB___072_____	42,0	5.202	124	5.782	138	5.947	142	6.514	155
HESB___082_____	49,0	5.891	120	6.547	134	6.734	137	7.376	151
HESB___092_____	55,0	6.541	119	7.269	132	7.477	136	8.190	149

POWER AND OPTICAL FLUX | 1H (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.705	131	1.894	146	1.948	150	2.134	164
HESB___012_____	16,0	2.113	132	2.348	147	2.415	151	2.646	165
HESB___022_____	19,5	2.580	132	2.867	147	2.949	151	3.230	166
HESB___032_____	23,0	3.029	132	3.367	146	3.463	151	3.793	165
HESB___042_____	26,0	3.634	140	4.039	155	4.154	160	4.551	175
HESB___052_____	29,0	4.022	139	4.470	154	4.597	159	5.036	174
HESB___062_____	36,0	4.923	137	5.472	152	5.628	156	6.165	171
HESB___072_____	42,0	5.712	136	6.348	151	6.529	155	7.152	170
HESB___082_____	49,0	6.468	132	7.188	147	7.393	151	8.099	165
HESB___092_____	55,0	7.181	131	7.981	145	8.209	149	8.992	163

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Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX | 2H (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.722	132	1.914	147	1.969	151	2.157	166
HESB___012_____	16,0	2.135	133	2.373	148	2.441	153	2.674	167
HESB___022_____	19,5	2.607	134	2.897	149	2.980	153	3.264	167
HESB___032_____	23,0	3.061	133	3.402	148	3.499	152	3.833	167
HESB___042_____	26,0	3.673	141	4.082	157	4.198	161	4.599	177
HESB___052_____	29,0	4.064	140	4.517	156	4.646	160	5.089	175
HESB___062_____	36,0	4.975	138	5.530	154	5.687	158	6.230	173
HESB___072_____	42,0	5.772	137	6.415	153	6.598	157	7.227	172
HESB___082_____	49,0	6.536	133	7.264	148	7.471	152	8.184	167
HESB___092_____	55,0	7.256	132	8.065	147	8.295	151	9.086	165

POWER AND OPTICAL FLUX | 1T (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.642	126	1.825	140	1.877	144	2.057	158
HESB___012_____	16,0	2.036	127	2.263	141	2.327	145	2.549	159
HESB___022_____	19,5	2.486	127	2.763	142	2.842	146	3.113	160
HESB___032_____	23,0	2.919	127	3.244	141	3.337	145	3.655	159
HESB___042_____	26,0	3.502	135	3.892	150	4.003	154	4.385	169
HESB___052_____	29,0	3.875	134	4.307	149	4.430	153	4.853	167
HESB___062_____	36,0	4.744	132	5.273	146	5.423	151	5.941	165
HESB___072_____	42,0	5.504	131	6.117	146	6.291	150	6.892	164
HESB___082_____	49,0	6.232	127	6.927	141	7.124	145	7.804	159
HESB___092_____	55,0	6.919	126	7.691	140	7.910	144	8.664	158

POWER AND OPTICAL FLUX | 1X (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.698	131	1.888	145	1.942	149	2.127	164
HESB___012_____	16,0	2.106	132	2.340	146	2.407	150	2.637	165
HESB___022_____	19,5	2.571	132	2.857	147	2.939	151	3.219	165
HESB___032_____	23,0	3.019	131	3.355	146	3.451	150	3.780	164
HESB___042_____	26,0	3.621	139	4.025	155	4.140	159	4.535	174
HESB___052_____	29,0	4.008	138	4.454	154	4.581	158	5.018	173
HESB___062_____	36,0	4.906	136	5.453	151	5.608	156	6.143	171
HESB___072_____	42,0	5.692	136	6.326	151	6.506	155	7.127	170
HESB___082_____	49,0	6.445	132	7.163	146	7.367	150	8.070	165
HESB___092_____	55,0	7.156	130	7.953	145	8.180	149	8.960	163

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Product Data Sheet

Street lighting

POWER AND OPTICAL FLUX | 1Y (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.679	129	1.866	144	1.919	148	2.102	162
HESB___012_____	16,0	2.081	130	2.313	145	2.379	149	2.606	163
HESB___022_____	19,5	2.541	130	2.824	145	2.904	149	3.181	163
HESB___032_____	23,0	2.983	130	3.316	144	3.410	148	3.736	162
HESB___042_____	26,0	3.579	138	3.978	153	4.091	157	4.482	172
HESB___052_____	29,0	3.961	137	4.402	152	4.528	156	4.960	171
HESB___062_____	36,0	4.849	135	5.389	150	5.543	154	6.071	169
HESB___072_____	42,0	5.625	134	6.252	149	6.430	153	7.044	168
HESB___082_____	49,0	6.369	130	7.079	144	7.281	149	7.976	163
HESB___092_____	55,0	7.072	129	7.860	143	8.084	147	8.855	161

POWER AND OPTICAL FLUX | 1U (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.643	126	1.826	140	1.878	144	2.057	158
HESB___012_____	16,0	2.039	127	2.266	142	2.330	146	2.553	160
HESB___022_____	19,5	2.512	129	2.792	143	2.872	147	3.146	161
HESB___032_____	23,0	2.964	129	3.295	143	3.389	147	3.712	161
HESB___042_____	26,0	3.454	133	3.839	148	3.948	152	4.325	166
HESB___052_____	29,0	3.822	132	4.248	146	4.369	151	4.786	165
HESB___062_____	36,0	4.679	130	5.200	144	5.349	149	5.859	163
HESB___072_____	42,0	5.428	129	6.033	144	6.205	148	6.797	162
HESB___082_____	49,0	6.146	125	6.831	139	7.026	143	7.696	157
HESB___092_____	55,0	6.824	124	7.585	138	7.801	142	8.545	155

POWER AND OPTICAL FLUX | 11 (T_{amb}=25°C)

		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.727	133	1.919	148	1.974	152	2.162	166
HESB___012_____	16,0	2.140	134	2.379	149	2.447	153	2.680	168
HESB___022_____	19,5	2.613	134	2.905	149	2.987	153	3.273	168
HESB___032_____	23,0	3.069	133	3.411	148	3.508	153	3.843	167
HESB___042_____	26,0	3.682	142	4.092	157	4.209	162	4.610	177
HESB___052_____	29,0	4.074	140	4.528	156	4.657	161	5.102	176
HESB___062_____	36,0	4.988	139	5.543	154	5.701	158	6.245	173
HESB___072_____	42,0	5.786	138	6.431	153	6.614	157	7.245	173
HESB___082_____	49,0	6.552	134	7.282	149	7.490	153	8.204	167
HESB___092_____	55,0	7.274	132	8.085	147	8.316	151	9.109	166

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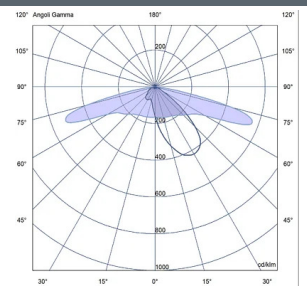
POWER AND OPTICAL FLUX | 12
(T_{amb}=25°C)

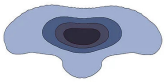
		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
HESB___002_____	13,0	1.727	133	1.919	148	1.974	152	2.162	166
HESB___012_____	16,0	2.140	134	2.379	149	2.447	153	2.680	168
HESB___022_____	19,5	2.613	134	2.905	149	2.987	153	3.273	168
HESB___032_____	23,0	3.069	133	3.411	148	3.508	153	3.843	167
HESB___042_____	26,0	3.682	142	4.092	157	4.209	162	4.610	177
HESB___052_____	29,0	4.074	140	4.528	156	4.657	161	5.102	176
HESB___062_____	36,0	4.988	139	5.543	154	5.701	158	6.245	173
HESB___072_____	42,0	5.786	138	6.431	153	6.614	157	7.245	173
HESB___082_____	49,0	6.552	134	7.282	149	7.490	153	8.204	167
HESB___092_____	55,0	7.274	132	8.085	147	8.316	151	9.109	166

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OPTICS

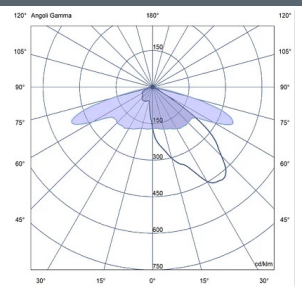
Regular I-L15





Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

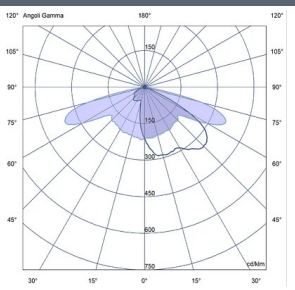
Regular Low TI L-L19

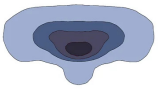




Regular Comfort L-L19
L / H = 1,0 - 1,2

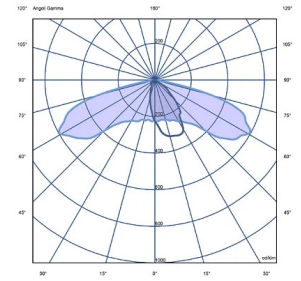
Wide O-L23





Asymmetrical Optics - Wide Beam
L / H = 1,1 ÷ 1,25

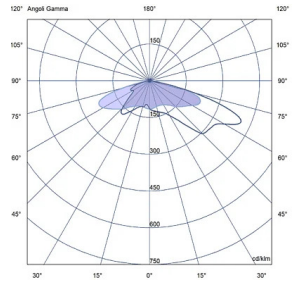
Narrow P-L24





Asymmetrical street optics - Narrow beam
L / H = 0,5 ÷ 0,9

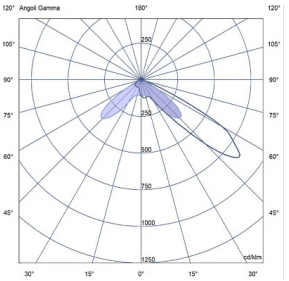
Extra Wide Q-L17

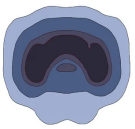




Asymmetrical optics - Very wide beam
L / H = 1,75 ÷ 2.3

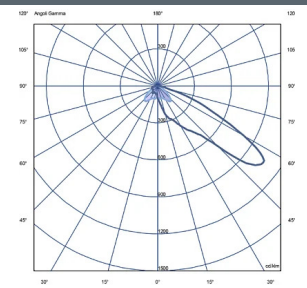
Asymmetrical H-L20





Asymmetrical Front Optics
L / H = 1,8 - 2,0

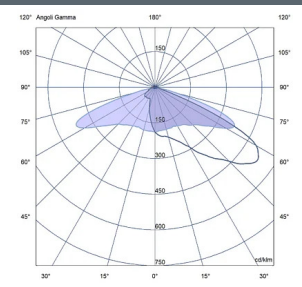
Asymmetric H-L12

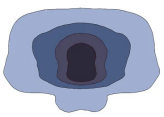




Asymmetrical optics - Very wide beam

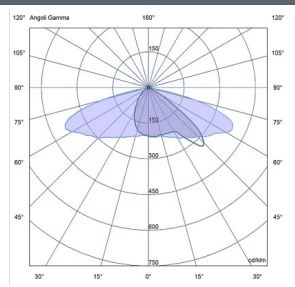
Extra-Wide Optics 1T-L25





Asymmetrical optics - Very wide beam
L / H Max 1,75

Front-Back Wide Optics 1X-L26





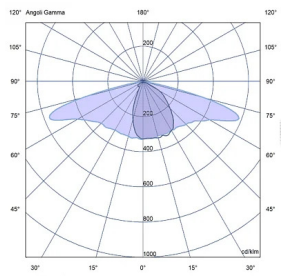
Front-Back Wide Street Optics
L / H = 1,2 ÷ 1,5

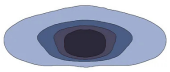
The product features are subject to change at the sole discretion of the manufacturer. Tolerances depend on various factors (including the power curve, operating temperature, the components used, etc.) and are subject to confirmation by the manufacturer. Please contact the technical office for more information.

Product Data Sheet

Street lighting

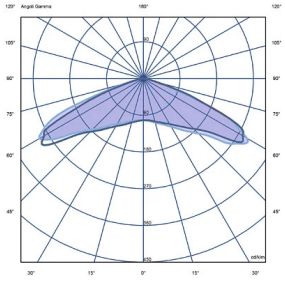
Front-Back Narrow Optics 1Y-L34

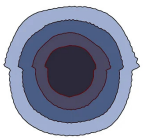




Front-Back Narrow Street Optics
L / H = 0,5 ÷ 0,9

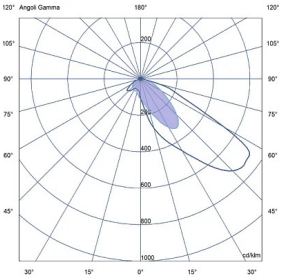
Roto-Wide U-V04





Rotosymmetrical road optics - Wide beam

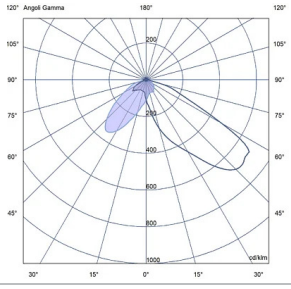
Pedestrian Right 3-L21





Right Pedestrian 3-L21

Pedestrian Left 4-L22



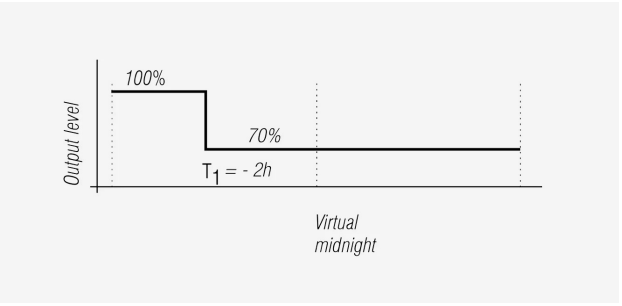


Left Pedestrian 4-L22

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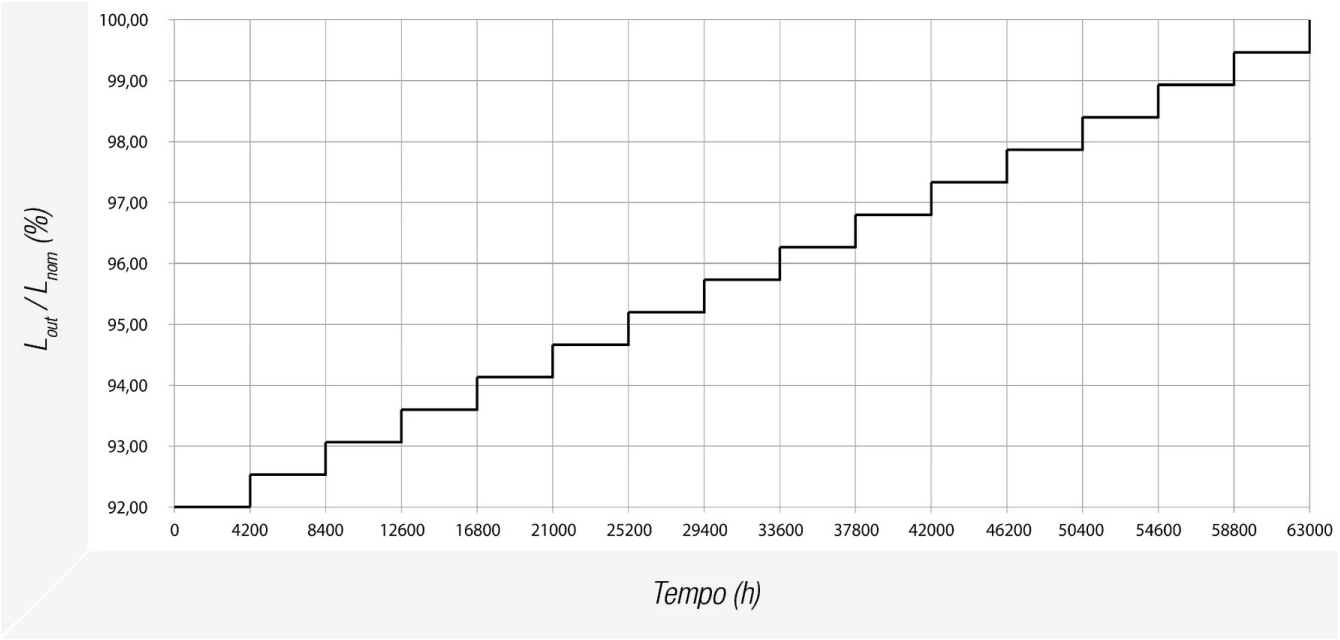
DIMMING

STANDARD VIRTUAL MIDNIGHT PROFILE



For other profiles please contact the sales department.

STANDARD CLO PROFILE



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Product Data Sheet

Street lighting

CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Control	Various	Cable	Protection	Program	Support
HESB	X	X	X	X	X	X	X	X	X	X
	1I Regular I-L15 **1L** Regular Low TI L-L19 **1O** Wide O-L23 **1P** Narrow P-L24 **1Q** Extra Wide Q-L17 **1H** Asymmetrical H-L20 **2H** Asymmetric H-L12 **1T** Extra-Wide Optics 1T-L25 **1X** Front-Back Wide Optics 1X-L26 **1Y** Front-Back Narrow Optics 1Y-L34 **1U** Roto-Wide U-V04 **11** Pedestrian Right 3-L21 **12** Pedestrian Left 4-L22	**8** Neutral White 4,000K **2** Warm White 3,000K **5** Warm White 2,700K **9** Extra Warm White 2,200K	**00** 13,0 W **01** 16,0 W **02** 19,5 W **03** 23,0 W **04** 26,0 W **05** 29,0 W **06** 36,0 W **07** 42,0 W **08** 49,0 W **09** 55,0 W	**2** Class II (220-240V) **1** Class I (120-270V)	**N** No Dimming **A** Sentronic Connect **D** Dali **Y** Zhaga 18	**L** Standard	**0** No cable **1** 0,4 m **2** 1 m **3** 3 m	**0** No **2** Fuse	**00** No dimming **0M** Virtual Midnight -2h70% **1Z** Virtual Midnight -2h70% + CLO **1C** No Dimming + CLO **#**	**1** 3/4-way gas-filled suspension mount

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