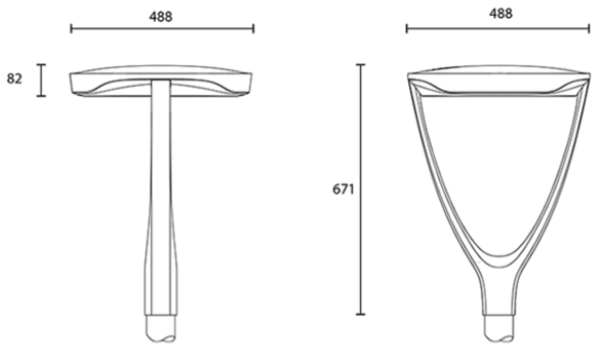




IK09 IP66 ULR 0% CIE >95%

THEMIS PT GENERAL CHARACTERISTICS	
Applications	
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; **1T:** Extra-Wide Optics 1T-L25; **1X:** Front-Back Wide Optics 1X-L26; **2H:** Asymmetric H-L12; **1U:** Roto-Wide U-V04;
Colour temperature	**2:** Warm White 3,000K; **8:** Neutral White 4,000K; **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 Max. 4 steps MacAdam
Photobiological safety class	Exempt Group
Insulation class	Class II Class I
Degree of protection	IK09
IP Grade	IP66
Wiring	Exiting cable + connector - tool-free opening
Dimensions	diam 488 x 671mm
Weight	10 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	"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	-40°C +50°C
Optical unit life (Ta from -10°C to 45°C)	L90 B10 > 100.000 hr

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.

MATERIALS	
Fixing	Pole head assembly suitable for poles with a diameter of 76 mm, with adapters measuring 48 mm and 60 mm in diameter
Heatsink	Die-cast aluminum; Dark Coal RAL9005 Metallic finish
Frame	Die-cast aluminum; Dark Coal RAL9005 Metallic finish
Optics	Multi-layer PMMA lenses
Screen	Flat tempered glass 5 mm thick, 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
THPB___012_____	12,9	1.771	137	1.968	153	2.024	157	2.217	172
THPB___022_____	15,4	2.140	139	2.379	154	2.447	159	2.680	174
THPB___032_____	17,6	2.471	140	2.746	156	2.824	160	3.094	176
THPB___042_____	20,6	2.901	141	3.224	157	3.316	161	3.632	176
THPB___052_____	23,8	3.380	142	3.757	158	3.864	162	4.233	178
THPB___062_____	27,4	3.873	141	4.305	157	4.428	162	4.850	177
THPB___072_____	31,7	4.438	140	4.932	156	5.073	160	5.557	175
THPB___082_____	35,4	4.920	139	5.468	154	5.624	159	6.161	174
THPB___092_____	39,4	5.527	140	6.143	156	6.319	160	6.921	176
THPB___102_____	44,8	6.091	136	6.770	151	6.963	155	7.627	170
THPB___112_____	53,6	7.128	133	7.922	148	8.148	152	8.925	167
THPB___122_____	61,8	8.088	131	8.990	145	9.246	150	10.128	164
THPB___132_____	68,2	9.018	132	10.022	147	10.308	151	11.292	166
THPB___142_____	75,9	9.875	130	10.976	145	11.289	149	12.366	163
THPB___152_____	82,4	10.599	129	11.780	143	12.116	147	13.271	161
THPB___162_____	92,1	11.171	121	12.415	135	12.769	139	13.988	152

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
THPB___012_____	12,9	1.797	139	1.997	155	2.054	159	2.250	174
THPB___022_____	15,4	2.172	141	2.414	157	2.483	161	2.719	177
THPB___032_____	17,6	2.507	142	2.786	158	2.865	163	3.139	178
THPB___042_____	20,6	2.943	143	3.271	159	3.364	163	3.685	179
THPB___052_____	23,8	3.430	144	3.812	160	3.920	165	4.294	180
THPB___062_____	27,4	3.930	143	4.368	159	4.493	164	4.921	180
THPB___072_____	31,7	4.502	142	5.004	158	5.147	162	5.638	178
THPB___082_____	35,4	4.992	141	5.548	157	5.706	161	6.251	177
THPB___092_____	39,4	5.608	142	6.233	158	6.411	163	7.023	178
THPB___102_____	44,8	6.180	138	6.869	153	7.065	158	7.739	173
THPB___112_____	53,6	7.232	135	8.038	150	8.267	154	9.056	169
THPB___122_____	61,8	8.207	133	9.121	148	9.381	152	10.276	166
THPB___132_____	68,2	9.149	134	10.169	149	10.459	153	11.457	168
THPB___142_____	75,9	10.020	132	11.136	147	11.454	151	12.547	165
THPB___152_____	82,4	10.754	131	11.952	145	12.293	149	13.466	163
THPB___162_____	92,1	11.334	123	12.597	137	12.956	141	14.192	154

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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
THPB___012_____	12,9	1.750	136	1.945	151	2.000	155	2.191	170
THPB___022_____	15,4	2.115	137	2.351	153	2.418	157	2.649	172
THPB___032_____	17,6	2.441	139	2.713	154	2.791	159	3.057	174
THPB___042_____	20,6	2.866	139	3.186	155	3.277	159	3.589	174
THPB___052_____	23,8	3.340	140	3.712	156	3.818	160	4.183	176
THPB___062_____	27,4	3.828	140	4.254	155	4.376	160	4.793	175
THPB___072_____	31,7	4.385	138	4.874	154	5.013	158	5.491	173
THPB___082_____	35,4	4.862	137	5.404	153	5.558	157	6.088	172
THPB___092_____	39,4	5.462	139	6.071	154	6.244	158	6.840	174
THPB___102_____	44,8	6.019	134	6.690	149	6.881	154	7.537	168
THPB___112_____	53,6	7.044	131	7.829	146	8.052	150	8.820	165
THPB___122_____	61,8	7.993	129	8.883	144	9.137	148	10.008	162
THPB___132_____	68,2	8.911	131	9.904	145	10.186	149	11.158	164
THPB___142_____	75,9	9.759	129	10.846	143	11.155	147	12.220	161
THPB___152_____	82,4	10.473	127	11.641	141	11.972	145	13.115	159
THPB___162_____	92,1	11.039	120	12.269	133	12.619	137	13.822	150

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
THPB___012_____	12,9	1.768	137	1.965	152	2.021	157	2.213	172
THPB___022_____	15,4	2.137	139	2.375	154	2.442	159	2.675	174
THPB___032_____	17,6	2.466	140	2.741	156	2.819	160	3.088	175
THPB___042_____	20,6	2.896	141	3.218	156	3.310	161	3.626	176
THPB___052_____	23,8	3.374	142	3.750	158	3.857	162	4.225	178
THPB___062_____	27,4	3.866	141	4.297	157	4.420	161	4.842	177
THPB___072_____	31,7	4.430	140	4.923	155	5.064	160	5.547	175
THPB___082_____	35,4	4.911	139	5.458	154	5.614	159	6.150	174
THPB___092_____	39,4	5.517	140	6.132	156	6.307	160	6.909	175
THPB___102_____	44,8	6.080	136	6.758	151	6.950	155	7.614	170
THPB___112_____	53,6	7.115	133	7.908	148	8.133	152	8.909	166
THPB___122_____	61,8	8.074	131	8.973	145	9.229	149	10.110	164
THPB___132_____	68,2	9.001	132	10.004	147	10.290	151	11.271	165
THPB___142_____	75,9	9.858	130	10.956	144	11.268	148	12.344	163
THPB___152_____	82,4	10.580	128	11.759	143	12.094	147	13.248	161
THPB___162_____	92,1	11.150	121	12.393	135	12.746	138	13.962	152

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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
THPB___012_____	12,9	1.589	123	1.766	137	1.816	141	1.989	154
THPB___022_____	15,4	1.920	125	2.134	139	2.195	143	2.405	156
THPB___032_____	17,6	2.217	126	2.464	140	2.534	144	2.776	158
THPB___042_____	20,6	2.603	126	2.893	140	2.975	144	3.259	158
THPB___052_____	23,8	3.033	127	3.371	142	3.467	146	3.797	160
THPB___062_____	27,4	3.475	127	3.862	141	3.973	145	4.352	159
THPB___072_____	31,7	3.981	126	4.425	140	4.551	144	4.985	157
THPB___082_____	35,4	4.414	125	4.906	139	5.046	143	5.527	156
THPB___092_____	39,4	4.959	126	5.512	140	5.669	144	6.210	158
THPB___102_____	44,8	5.465	122	6.074	136	6.247	139	6.843	153
THPB___112_____	53,6	6.395	119	7.108	133	7.310	136	8.008	149
THPB___122_____	61,8	7.257	117	8.065	131	8.295	134	9.087	147
THPB___132_____	68,2	7.884	116	8.763	128	9.012	132	9.872	145
THPB___142_____	75,9	8.608	113	9.568	126	9.841	130	10.779	142
THPB___152_____	82,4	9.213	112	10.240	124	10.532	128	11.537	140
THPB___162_____	92,1	9.687	105	10.766	117	11.073	120	12.130	132

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
THPB___012_____	12,9	1.744	135	1.939	150	1.994	155	2.184	169
THPB___022_____	15,4	2.108	137	2.343	152	2.410	156	2.640	171
THPB___032_____	17,6	2.434	138	2.705	154	2.782	158	3.047	173
THPB___042_____	20,6	2.857	139	3.176	154	3.266	159	3.578	174
THPB___052_____	23,8	3.330	140	3.701	156	3.806	160	4.169	175
THPB___062_____	27,4	3.815	139	4.241	155	4.362	159	4.778	174
THPB___072_____	31,7	4.371	138	4.858	153	4.997	158	5.474	173
THPB___082_____	35,4	4.846	137	5.387	152	5.540	156	6.069	171
THPB___092_____	39,4	5.445	138	6.052	154	6.224	158	6.818	173
THPB___102_____	44,8	6.000	134	6.669	149	6.859	153	7.513	168
THPB___112_____	53,6	7.021	131	7.804	146	8.026	150	8.792	164
THPB___122_____	61,8	7.967	129	8.855	143	9.108	147	9.977	161
THPB___132_____	68,2	8.656	127	9.621	141	9.895	145	10.839	159
THPB___142_____	75,9	9.451	125	10.505	138	10.804	142	11.835	156
THPB___152_____	82,4	10.115	123	11.243	136	11.563	140	12.666	154
THPB___162_____	92,1	10.635	115	11.821	128	12.157	132	13.317	145

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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
THPB___012_____	12,9	1.681	130	1.868	145	1.921	149	2.105	163
THPB___022_____	15,4	2.032	132	2.258	147	2.322	151	2.544	165
THPB___032_____	17,6	2.345	133	2.606	148	2.681	152	2.936	167
THPB___042_____	20,6	2.753	134	3.060	149	3.147	153	3.448	167
THPB___052_____	23,8	3.208	135	3.566	150	3.667	154	4.017	169
THPB___062_____	27,4	3.676	134	4.086	149	4.203	153	4.604	168
THPB___072_____	31,7	4.212	133	4.681	148	4.815	152	5.274	166
THPB___082_____	35,4	4.670	132	5.190	147	5.338	151	5.848	165
THPB___092_____	39,4	5.246	133	5.831	148	5.997	152	6.569	167
THPB___102_____	44,8	5.781	129	6.426	143	6.609	148	7.240	162
THPB___112_____	53,6	6.765	126	7.519	140	7.734	144	8.472	158
THPB___122_____	61,8	7.677	124	8.533	138	8.776	142	9.613	156
THPB___132_____	68,2	8.341	122	9.270	136	9.534	140	10.444	153
THPB___142_____	75,9	9.107	120	10.122	133	10.411	137	11.404	150
THPB___152_____	82,4	9.747	118	10.833	131	11.142	135	12.205	148
THPB___162_____	92,1	10.248	111	11.390	124	11.715	127	12.832	139

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
THPB___012_____	12,9	1.738	135	1.932	150	1.987	154	2.177	169
THPB___022_____	15,4	2.101	136	2.335	152	2.402	156	2.631	171
THPB___032_____	17,6	2.425	138	2.695	153	2.772	158	3.037	173
THPB___042_____	20,6	2.847	138	3.165	154	3.255	158	3.565	173
THPB___052_____	23,8	3.318	139	3.688	155	3.793	159	4.154	175
THPB___062_____	27,4	3.802	139	4.226	154	4.346	159	4.761	174
THPB___072_____	31,7	4.356	137	4.841	153	4.979	157	5.454	172
THPB___082_____	35,4	4.829	136	5.367	152	5.520	156	6.047	171
THPB___092_____	39,4	5.425	138	6.030	153	6.202	157	6.794	172
THPB___102_____	44,8	5.979	133	6.645	148	6.835	153	7.487	167
THPB___112_____	53,6	6.996	131	7.776	145	7.998	149	8.761	163
THPB___122_____	61,8	7.939	128	8.824	143	9.075	147	9.941	161
THPB___132_____	68,2	8.625	126	9.586	141	9.860	145	10.800	158
THPB___142_____	75,9	9.418	124	10.467	138	10.766	142	11.793	155
THPB___152_____	82,4	10.079	122	11.203	136	11.522	140	12.621	153
THPB___162_____	92,1	10.598	115	11.779	128	12.114	132	13.270	144

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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
THPB___012_____	12,9	1.763	137	1.959	152	2.015	156	2.207	171
THPB___022_____	15,4	2.131	138	2.368	154	2.436	158	2.668	173
THPB___032_____	17,6	2.459	140	2.733	155	2.811	160	3.079	175
THPB___042_____	20,6	2.887	140	3.209	156	3.301	160	3.616	176
THPB___052_____	23,8	3.365	141	3.739	157	3.846	162	4.213	177
THPB___062_____	27,4	3.856	141	4.285	156	4.407	161	4.828	176
THPB___072_____	31,7	4.417	139	4.909	155	5.049	159	5.531	174
THPB___082_____	35,4	4.897	138	5.443	154	5.598	158	6.132	173
THPB___092_____	39,4	5.502	140	6.115	155	6.289	160	6.889	175
THPB___102_____	44,8	6.063	135	6.739	150	6.931	155	7.592	169
THPB___112_____	53,6	7.095	132	7.886	147	8.110	151	8.884	166
THPB___122_____	61,8	8.051	130	8.948	145	9.203	149	10.081	163
THPB___132_____	68,2	8.747	128	9.722	143	9.999	147	10.953	161
THPB___142_____	75,9	9.551	126	10.615	140	10.918	144	11.959	158
THPB___152_____	82,4	10.221	124	11.361	138	11.684	142	12.799	155
THPB___162_____	92,1	10.747	117	11.945	130	12.285	133	13.457	146

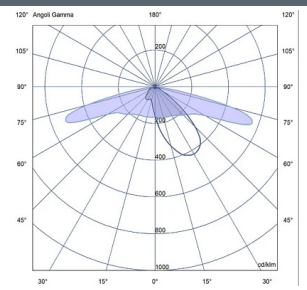
POWER AND OPTICAL FLUX | 1U (T_{amb}=25°C)

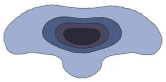
		2200 K		2700 K		3000 K		4000 K	
CODE	CODE	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency	Flux (lm)	Efficiency
THPB___012_____	12,9	1.661	129	1.846	143	1.899	147	2.080	161
THPB___022_____	15,4	2.022	131	2.248	146	2.312	150	2.532	164
THPB___032_____	17,6	2.341	133	2.602	148	2.676	152	2.931	167
THPB___042_____	20,6	2.756	134	3.064	149	3.151	153	3.451	168
THPB___052_____	23,8	3.208	135	3.566	150	3.667	154	4.017	169
THPB___062_____	27,4	3.680	134	4.090	149	4.206	154	4.608	168
THPB___072_____	31,7	4.240	134	4.712	149	4.847	153	5.309	167
THPB___082_____	35,4	4.712	133	5.237	148	5.386	152	5.900	167
THPB___092_____	39,4	5.310	135	5.902	150	6.070	154	6.649	169
THPB___102_____	44,8	5.869	131	6.523	146	6.709	150	7.349	164
THPB___112_____	53,6	6.909	129	7.679	143	7.898	147	8.652	161
THPB___122_____	61,8	7.885	128	8.764	142	9.014	146	9.874	160
THPB___132_____	68,2	8.605	126	9.565	140	9.837	144	10.776	158
THPB___142_____	75,9	9.446	124	10.499	138	10.798	142	11.829	156
THPB___152_____	82,4	10.157	123	11.289	137	11.611	141	12.719	154
THPB___162_____	92,1	10.723	116	11.918	129	12.258	133	13.428	146

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OPTICS

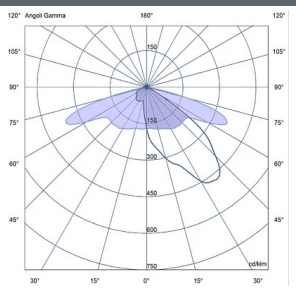
Regular I-L15

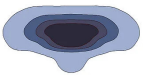




Asymmetrical street optics - Medium beam
L / H = 0,9 ÷ 1,1

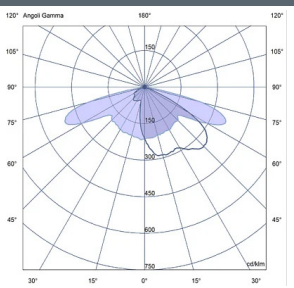
Regular Low TI L-L19

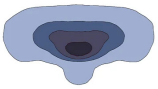




Regular Comfort L-L19
L / H = 1,0 - 1,2

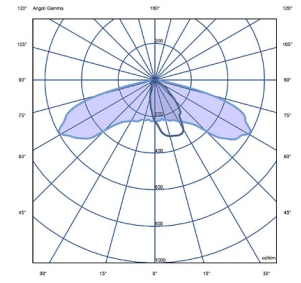
Wide O-L23





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

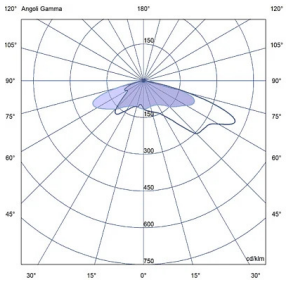
Narrow P-L24





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

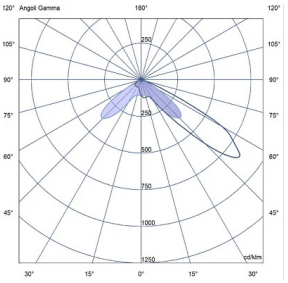
Extra Wide Q-L17

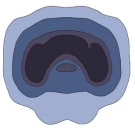




Asymmetrical optics - Very wide beam
L / H = 1,75 ÷ 2.3

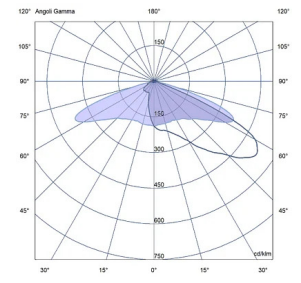
Asymmetrical H-L20

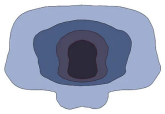




Asymmetrical Front Optics
L / H = 1,8 - 2,0

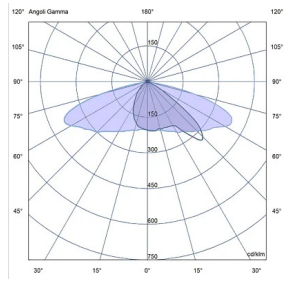
Extra-Wide Optics 1T-L25





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

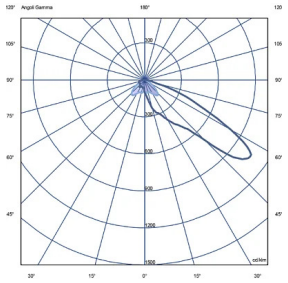
Front-Back Wide Optics 1X-L26





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

Asymmetric H-L12

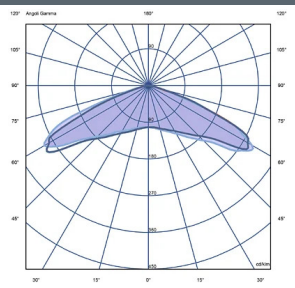


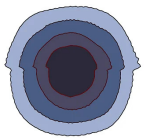


Asymmetrical optics - Very wide beam

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Roto-Wide U-V04

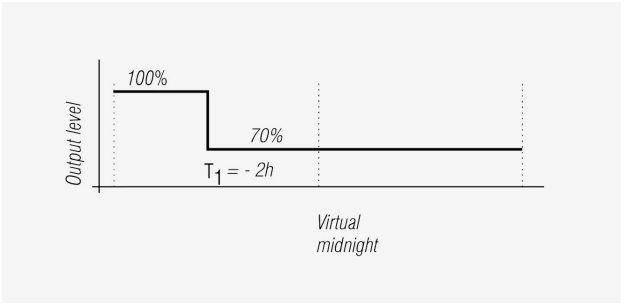




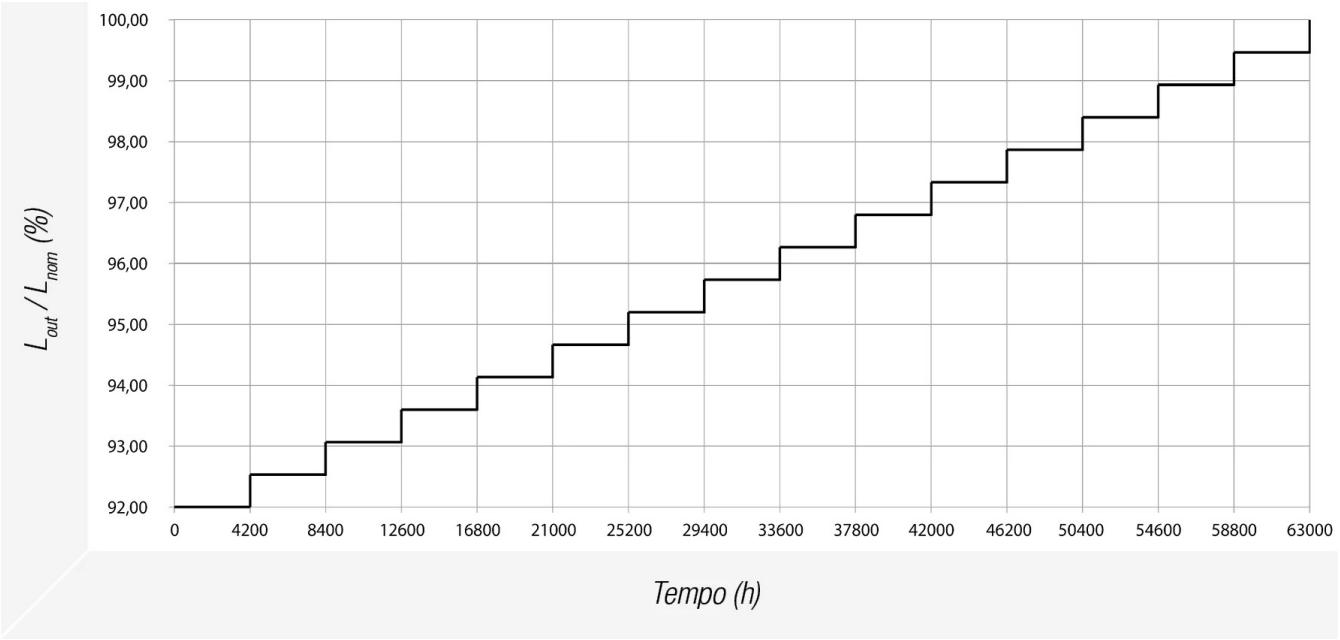
Rotosymmetrical road optics - Wide beam

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.

DIMMING



STANDARD CLO PROFILE



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CODING

	Optics	LED Color Temperature	Power *	Insulation Class (Input Range)	Control	Various	Cable	Protection	Program	Support
THPB	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 **1T** Extra-Wide Optics 1T-L25 **1X** Front-Back Wide Optics 1X-L26 **2H** Asymmetric H-L12 **1U** Roto-Wide U-V04	**2** Warm White 3,000K **8** Neutral White 4,000K **5** Warm White 2,700K **9** Extra Warm White 2,200K	**01** 12,9 W **02** 15,4 W **03** 17,6 W **04** 20,6 W **05** 23,8 W **06** 27,4 W **07** 31,7 W **08** 35,4 W **09** 39,4 W **10** 44,8 W **11** 53,6 W **12** 61,8 W **13** 68,2 W **14** 75,9 W **15** 82,4 W **16** 92,1 W	**2** Class II (220-240V) **1** Class I (120-270V)	**N** No Dimming **A** Sentronic Connect **D** Dali **Y** Zhaga 18	**L** Standard senza uso di utensili	**0** Connector and cable	**0** No **1** Disconnector **2** Fuse **3** Disconnector + fuse	**00** No dimming **0M** Virtual Midnight -2h70% **1Z** Virtual Midnight -2h70% + CLO **1C** No Dimming + CLO **#**	**1** 76mm pole head assembly (includes 60mm and 48mm adapters)

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