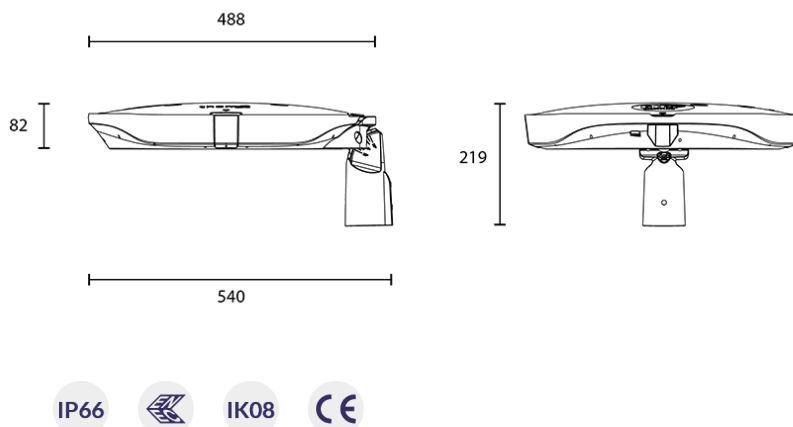




THEMIS L GENERAL CHARACTERISTICS

Applications	Street lighting
Optics	N: Narrow V14; R: Regular R-V25; A: Regular Comfort A-V05; 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 typical 4 MacAdam steps
Photobiological safety class	Exempt Group
Insulation class	Class II , Class I upon request
Degree of protection	IK09
IP Grade	IP66
Wiring	Internal connections
Dimensions	diam 540 x 219 mm
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	Automatic "virtual midnight" dimming system with up to 3 steps and CLO function; DALI; remote control based on lumawise system
Overvoltage protection	12kV differential mode, 12kV common mode, SPD 5kA 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 mounting Suitable for 40 to 76 mm diameter poles
Heatsink	Die-cast aluminium
Frame	Die-cast aluminium; painted "Dark Coal"
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)

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
THLB_ _012_ _	12,9	1.964	152	12,9	1.886
THLB_ _022_ _	15,4	2.384	155	15,4	2.288
THLB_ _032_ _	17,6	2.714	154	17,6	2.606
THLB_ _042_ _	20,6	3.257	158	20,6	3.023
THLB_ _052_ _	23,8	3.775	159	23,8	3.518
THLB_ _062_ _	27,4	4.345	159	27,4	4.049
THLB_ _072_ _	31,7	5.006	158	31,7	4.629
THLB_ _082_ _	35,4	5.567	157	35,4	5.188
THLB_ _092_ _	39,4	6.123	155	39,4	5.707
THLB_ _102_ _	44,8	6.922	155	44,8	6.451
THLB_ _112_ _	53,6	8.198	153	53,6	7.747
THLB_ _122_ _	61,8	9.458	153	61,8	9.087
THLB_ _132_ _	68,2	10.068	148	68,2	9.673
THLB_ _142_ _	75,9	11.098	146	75,9	10.662
THLB_ _152_ _	82,4	11.938	145	82,4	11.470
THLB_ _162_ _	92,1	13.141	143	92,1	12.625

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

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
THLB_ _012_ _	12,9	1.958	152	12,9	1.881
THLB_ _022_ _	15,4	2.377	154	15,4	2.281
THLB_ _032_ _	17,6	2.706	154	17,6	2.599
THLB_ _042_ _	20,6	3.228	157	20,6	3.006
THLB_ _052_ _	23,8	3.741	157	23,8	3.499
THLB_ _062_ _	27,4	4.305	157	27,4	4.027
THLB_ _072_ _	31,7	4.961	156	31,7	4.604
THLB_ _082_ _	35,4	5.517	156	35,4	5.160
THLB_ _092_ _	39,4	6.068	154	39,4	5.676
THLB_ _102_ _	44,8	6.859	153	44,8	6.416
THLB_ _112_ _	53,6	8.124	152	53,6	7.705
THLB_ _122_ _	61,8	9.531	154	61,8	9.154
THLB_ _132_ _	68,2	10.146	149	68,2	9.743
THLB_ _142_ _	75,9	11.183	147	75,9	10.740
THLB_ _152_ _	82,4	12.030	146	82,4	11.553
THLB_ _162_ _	92,1	13.242	144	92,1	12.717

** 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)
THLB_ _012_ _	12,9	2.004	155	12,9	1.925
THLB_ _022_ _	15,4	2.432	158	15,4	2.335
THLB_ _032_ _	17,6	2.770	157	17,6	2.660
THLB_ _042_ _	20,6	3.303	160	20,6	3.075
THLB_ _052_ _	23,8	3.828	161	23,8	3.579
THLB_ _062_ _	27,4	4.406	161	27,4	4.119
THLB_ _072_ _	31,7	5.077	160	31,7	4.710
THLB_ _082_ _	35,4	5.646	159	35,4	5.279
THLB_ _092_ _	39,4	6.209	158	39,4	5.806
THLB_ _102_ _	44,8	7.019	157	44,8	6.563
THLB_ _112_ _	53,6	8.313	155	53,6	7.882
THLB_ _122_ _	61,8	9.491	154	61,8	9.109
THLB_ _132_ _	68,2	10.102	148	68,2	9.696
THLB_ _142_ _	75,9	11.136	147	75,9	10.688
THLB_ _152_ _	82,4	11.979	145	82,4	11.498
THLB_ _162_ _	92,1	13.186	143	92,1	12.656

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

CODE	Power (W)	4000K		3000K	
		Flux (lm)	Efficiency	Power (W)	Flux (lm)
THLB_ _012_ _	12,9	1.990	154	12,9	1.912
THLB_ _022_ _	15,4	2.416	157	15,4	2.319
THLB_ _032_ _	17,6	2.750	156	17,6	2.642
THLB_ _042_ _	20,6	3.268	159	20,6	3.045
THLB_ _052_ _	23,8	3.787	159	23,8	3.545
THLB_ _062_ _	27,4	4.359	159	27,4	4.080
THLB_ _072_ _	31,7	5.024	158	31,7	4.665
THLB_ _082_ _	35,4	5.586	158	35,4	5.229
THLB_ _092_ _	39,4	6.143	156	39,4	5.751
THLB_ _102_ _	44,8	6.945	155	44,8	6.501
THLB_ _112_ _	53,6	8.225	153	53,6	7.807
THLB_ _122_ _	61,8	9.543	154	61,8	9.149
THLB_ _132_ _	68,2	10.158	149	68,2	9.739
THLB_ _142_ _	75,9	11.197	148	75,9	10.735
THLB_ _152_ _	82,4	12.045	146	82,4	11.548
THLB_ _162_ _	92,1	13.258	144	92,1	12.711

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

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

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.957	152	12,9	1.880	146
THLB_ _022_ _	15,4	2.376	154	15,4	2.279	148
THLB_ _032_ _	17,6	2.704	154	17,6	2.597	148
THLB_ _042_ _	20,6	3.226	157	20,6	3.004	146
THLB_ _052_ _	23,8	3.739	157	23,8	3.497	147
THLB_ _062_ _	27,4	4.302	157	27,4	4.025	147
THLB_ _072_ _	31,7	4.958	156	31,7	4.601	145
THLB_ _082_ _	35,4	5.514	156	35,4	5.157	146
THLB_ _092_ _	39,4	6.064	154	39,4	5.673	144
THLB_ _102_ _	44,8	6.855	153	44,8	6.412	143
THLB_ _112_ _	53,6	8.119	151	53,6	7.700	144
THLB_ _122_ _	61,8	9.531	154	61,8	9.154	148
THLB_ _132_ _	68,2	10.146	149	68,2	9.743	143
THLB_ _142_ _	75,9	11.183	147	75,9	10.740	142
THLB_ _152_ _	82,4	12.030	146	82,4	11.553	140
THLB_ _162_ _	92,1	13.242	144	92,1	12.717	138

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

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.985	154	12,9	1.908	148
THLB_ _022_ _	15,4	2.410	156	15,4	2.312	150
THLB_ _032_ _	17,6	2.744	156	17,6	2.635	150
THLB_ _042_ _	20,6	3.263	158	20,6	3.035	147
THLB_ _052_ _	23,8	3.781	159	23,8	3.532	148
THLB_ _062_ _	27,4	4.352	159	27,4	4.066	148
THLB_ _072_ _	31,7	5.015	158	31,7	4.648	147
THLB_ _082_ _	35,4	5.577	158	35,4	5.210	147
THLB_ _092_ _	39,4	6.133	156	39,4	5.730	145
THLB_ _102_ _	44,8	6.933	155	44,8	6.477	145
THLB_ _112_ _	53,6	8.211	153	53,6	7.780	145
THLB_ _122_ _	61,8	9.488	154	61,8	9.090	147
THLB_ _132_ _	68,2	10.099	148	68,2	9.675	142
THLB_ _142_ _	75,9	11.132	147	75,9	10.665	141
THLB_ _152_ _	82,4	11.975	145	82,4	11.472	139
THLB_ _162_ _	92,1	13.182	143	92,1	12.628	137

** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

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

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.982	154	12,9	1.905	148
THLB_ _022_ _	15,4	2.407	156	15,4	2.309	150
THLB_ _032_ _	17,6	2.740	156	17,6	2.631	149
THLB_ _042_ _	20,6	3.223	156	20,6	3.040	148
THLB_ _052_ _	23,8	3.734	157	23,8	3.538	149
THLB_ _062_ _	27,4	4.298	157	27,4	4.073	149
THLB_ _072_ _	31,7	4.953	156	31,7	4.656	147
THLB_ _082_ _	35,4	5.508	156	35,4	5.219	147
THLB_ _092_ _	39,4	6.058	154	39,4	5.740	146
THLB_ _102_ _	44,8	6.848	153	44,8	6.488	145
THLB_ _112_ _	53,6	8.111	151	53,6	7.793	145
THLB_ _122_ _	61,8	9.543	154	61,8	9.165	148
THLB_ _132_ _	68,2	10.158	149	68,2	9.755	143
THLB_ _142_ _	75,9	11.197	148	75,9	10.753	142
THLB_ _152_ _	82,4	12.045	146	82,4	11.567	140
THLB_ _162_ _	92,1	13.258	144	92,1	12.732	138

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

CODE	Power (W)	4000K		Power (W)	3000K	
		Flux (lm)	Efficiency		Flux (lm)	Efficiency
THLB_ _012_ _	12,9	1.909	148	12,9	1.834	142
THLB_ _022_ _	15,4	2.318	151	15,4	2.224	144
THLB_ _032_ _	17,6	2.638	150	17,6	2.534	144
THLB_ _042_ _	20,6	3.147	153	20,6	2.930	142
THLB_ _052_ _	23,8	3.647	153	23,8	3.412	143
THLB_ _062_ _	27,4	4.197	153	27,4	3.926	143
THLB_ _072_ _	31,7	4.837	153	31,7	4.489	142
THLB_ _082_ _	35,4	5.379	152	35,4	5.031	142
THLB_ _092_ _	39,4	5.916	150	39,4	5.534	140
THLB_ _102_ _	44,8	6.688	149	44,8	6.256	140
THLB_ _112_ _	53,6	7.921	148	53,6	7.512	140
THLB_ _122_ _	61,8	9.293	150	61,8	8.925	144
THLB_ _132_ _	68,2	9.892	145	68,2	9.500	139
THLB_ _142_ _	75,9	10.904	144	75,9	10.472	138
THLB_ _152_ _	82,4	11.729	142	82,4	11.265	137
THLB_ _162_ _	92,1	12.911	140	92,1	12.399	135

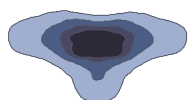
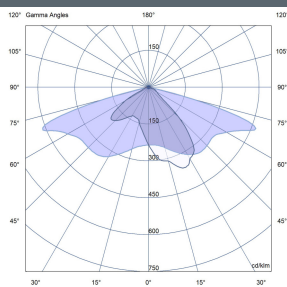
** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

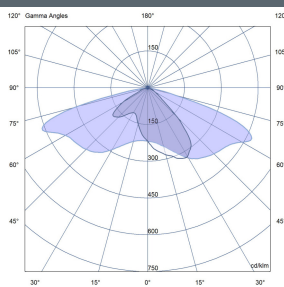
OPTICS

Narrow V14



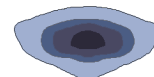
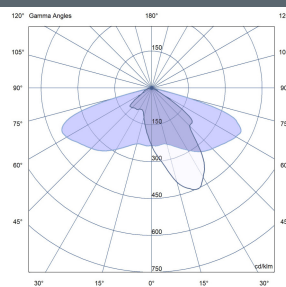
Asymmetrical street optics - Narrow beam
 $L / H = 0,5 \div 0,9$

Regular R-V25



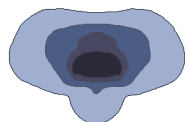
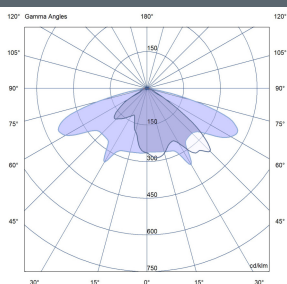
Asymmetrical street optics - Medium beam
 $L / H = 0,9 \div 1,1$

Regular Comfort A-V05



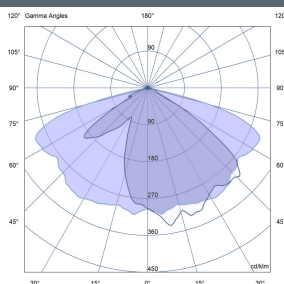
Asymmetrical Optics - Comfort
 $L / H = 1,0$

Wide W-V07



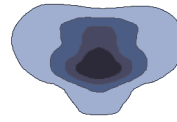
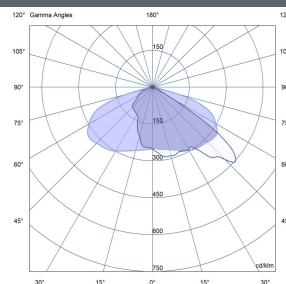
Asymmetrical street optics - Wide beam
 $L / H = 1,1 \div 1,3$

Wide B-V08



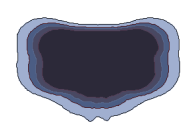
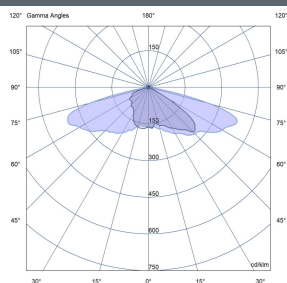
Asymmetrical street optics - Wide beam
 $L / H = 1,2 \div 1,5$

Extra Wide V20



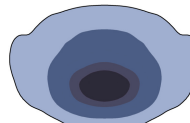
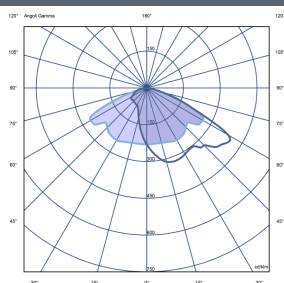
Asymmetrical optics - Very wide beam
 $L / H = 1,3 \div 1,6$

Front-Back V10



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

Forward Wide E-L01



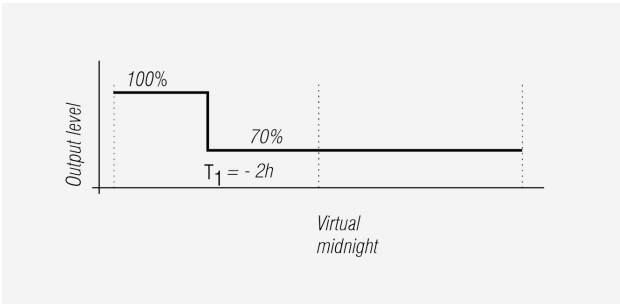
Asymmetrical optics - Very wide beam
 $L / H = 1,5-2,0$

** Flux tolerance +/- 5%.

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

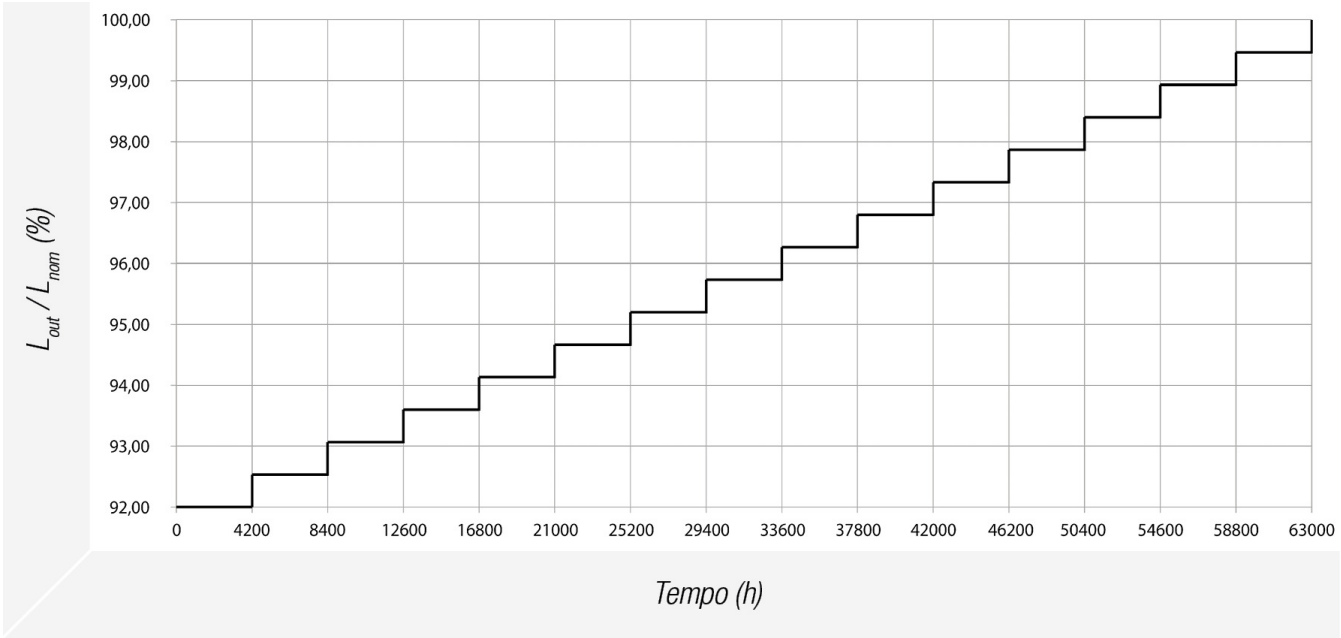
DIMMING

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
THLB	R	8	XX	2	N	A
	N Narrow V14	1 Cool White 5,500K	01 12.9	2 Class II (220-240V)	N No Dimming	L Standard
	R Regular R-V25	2 Warm White 3,000K	02 15.4	Versions available on request	M Virtual Midnight**	
	A Regular Comfort A-V05	8 Neutral White 4,000K	03 17.6		Z Virtual Midnight** + CLO	
	W Wide W-V07	Versions available on request	04 20.6	1 Class I (120-270V)	L Zhaga 18 + Virtual Midnight**	
	B Wide B-V08		05 23.8		Y Zhaga 18 + Virtual Midnight** + CLO	
	D Extra Wide V20	5 Warm White 2,700K	06 27.4			
	F Front-Back V10	9 Extra Warm White 2,200K	07 31.7			
	E Forward Wide E-L01		08 35.4			
			09 39.4			
			10 44.8			
			11 53.6			
			12 61.8			
			13 68.2			
			14 75.9			
			15 82.4			
			16 92.1			

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