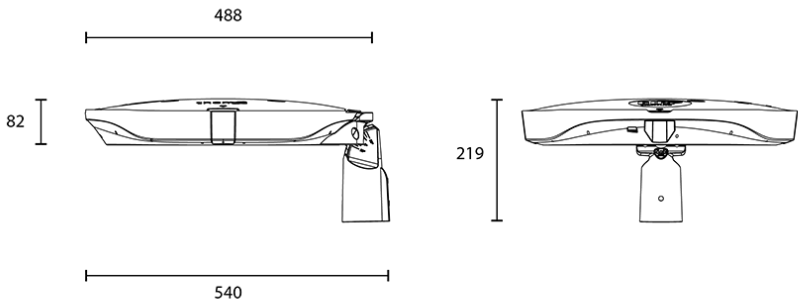




THEMIS L GENERAL CHARACTERISTICS	
Applications	Street lighting
Optics	N: Narrow V14; R: Regular R-V25; A: Regular Comfort A-V05; W: Wide W-V07; B: Wide B-V08; D: Extra Wide V20; F: Front-Back V10; E: Forward Wide E-L01;
Colour temperature	1: Cool White 5,500K; 2: Warm White 3,000K; 8: Neutral White 4,000K;
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 219mm
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	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
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 +/- 7% on the LED lux and +/- 5% on the absorbed power.

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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.964	152	12,9	146
THLB__022__	15,4	2.384	155	15,4	149
THLB__032__	17,6	2.714	154	17,6	148
THLB__042__	20,6	3.257	158	20,6	147
THLB__052__	23,8	3.775	159	23,8	148
THLB__062__	27,4	4.345	159	27,4	148
THLB__072__	31,7	5.006	158	31,7	146
THLB__082__	35,4	5.567	157	35,4	147
THLB__092__	39,4	6.123	155	39,4	145
THLB__102__	44,8	6.922	155	44,8	144
THLB__112__	53,6	8.198	153	53,6	145
THLB__122__	61,8	9.458	153	61,8	147
THLB__132__	68,2	10.068	148	68,2	142
THLB__142__	75,9	11.098	146	75,9	140
THLB__152__	82,4	11.938	145	82,4	139
THLB__162__	92,1	13.141	143	92,1	137

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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.958	152	12,9	146
THLB__022__	15,4	2.377	154	15,4	148
THLB__032__	17,6	2.706	154	17,6	148
THLB__042__	20,6	3.228	157	20,6	146
THLB__052__	23,8	3.741	157	23,8	147
THLB__062__	27,4	4.305	157	27,4	147
THLB__072__	31,7	4.961	156	31,7	145
THLB__082__	35,4	5.517	156	35,4	146
THLB__092__	39,4	6.068	154	39,4	144
THLB__102__	44,8	6.859	153	44,8	143
THLB__112__	53,6	8.124	152	53,6	144
THLB__122__	61,8	9.531	154	61,8	148
THLB__132__	68,2	10.146	149	68,2	143
THLB__142__	75,9	11.183	147	75,9	142
THLB__152__	82,4	12.030	146	82,4	140
THLB__162__	92,1	13.242	144	92,1	138

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

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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	2.004	155	12,9	149
THLB__022__	15,4	2.432	158	15,4	152
THLB__032__	17,6	2.770	157	17,6	151
THLB__042__	20,6	3.303	160	20,6	149
THLB__052__	23,8	3.828	161	23,8	150
THLB__062__	27,4	4.406	161	27,4	150
THLB__072__	31,7	5.077	160	31,7	149
THLB__082__	35,4	5.646	159	35,4	149
THLB__092__	39,4	6.209	158	39,4	147
THLB__102__	44,8	7.019	157	44,8	146
THLB__112__	53,6	8.313	155	53,6	147
THLB__122__	61,8	9.491	154	61,8	147
THLB__132__	68,2	10.102	148	68,2	142
THLB__142__	75,9	11.136	147	75,9	141
THLB__152__	82,4	11.979	145	82,4	140
THLB__162__	92,1	13.186	143	92,1	137

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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.990	154	12,9	148
THLB__022__	15,4	2.416	157	15,4	151
THLB__032__	17,6	2.750	156	17,6	150
THLB__042__	20,6	3.268	159	20,6	148
THLB__052__	23,8	3.787	159	23,8	149
THLB__062__	27,4	4.359	159	27,4	149
THLB__072__	31,7	5.024	158	31,7	147
THLB__082__	35,4	5.586	158	35,4	148
THLB__092__	39,4	6.143	156	39,4	146
THLB__102__	44,8	6.945	155	44,8	145
THLB__112__	53,6	8.225	153	53,6	146
THLB__122__	61,8	9.543	154	61,8	148
THLB__132__	68,2	10.158	149	68,2	143
THLB__142__	75,9	11.197	148	75,9	141
THLB__152__	82,4	12.045	146	82,4	140
THLB__162__	92,1	13.258	144	92,1	138

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

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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.957	152	12,9	146
THLB__022__	15,4	2.376	154	15,4	148
THLB__032__	17,6	2.704	154	17,6	148
THLB__042__	20,6	3.226	157	20,6	146
THLB__052__	23,8	3.739	157	23,8	147
THLB__062__	27,4	4.302	157	27,4	147
THLB__072__	31,7	4.958	156	31,7	145
THLB__082__	35,4	5.514	156	35,4	146
THLB__092__	39,4	6.064	154	39,4	144
THLB__102__	44,8	6.855	153	44,8	143
THLB__112__	53,6	8.119	151	53,6	144
THLB__122__	61,8	9.531	154	61,8	148
THLB__132__	68,2	10.146	149	68,2	143
THLB__142__	75,9	11.183	147	75,9	142
THLB__152__	82,4	12.030	146	82,4	140
THLB__162__	92,1	13.242	144	92,1	138

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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.985	154	12,9	148
THLB__022__	15,4	2.410	156	15,4	150
THLB__032__	17,6	2.744	156	17,6	150
THLB__042__	20,6	3.263	158	20,6	147
THLB__052__	23,8	3.781	159	23,8	148
THLB__062__	27,4	4.352	159	27,4	148
THLB__072__	31,7	5.015	158	31,7	147
THLB__082__	35,4	5.577	158	35,4	147
THLB__092__	39,4	6.133	156	39,4	145
THLB__102__	44,8	6.933	155	44,8	145
THLB__112__	53,6	8.211	153	53,6	145
THLB__122__	61,8	9.488	154	61,8	147
THLB__132__	68,2	10.099	148	68,2	142
THLB__142__	75,9	11.132	147	75,9	141
THLB__152__	82,4	11.975	145	82,4	139
THLB__162__	92,1	13.182	143	92,1	137

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



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

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.982	154	12,9	148
THLB__022__	15,4	2.407	156	15,4	150
THLB__032__	17,6	2.740	156	17,6	149
THLB__042__	20,6	3.223	156	20,6	148
THLB__052__	23,8	3.734	157	23,8	149
THLB__062__	27,4	4.298	157	27,4	149
THLB__072__	31,7	4.953	156	31,7	147
THLB__082__	35,4	5.508	156	35,4	147
THLB__092__	39,4	6.058	154	39,4	146
THLB__102__	44,8	6.848	153	44,8	145
THLB__112__	53,6	8.111	151	53,6	145
THLB__122__	61,8	9.543	154	61,8	148
THLB__132__	68,2	10.158	149	68,2	143
THLB__142__	75,9	11.197	148	75,9	142
THLB__152__	82,4	12.045	146	82,4	140
THLB__162__	92,1	13.258	144	92,1	138

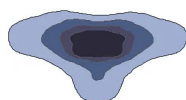
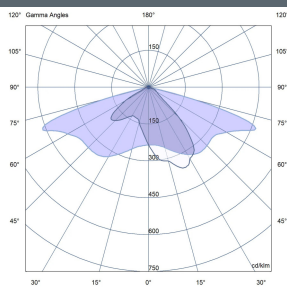
POWER AND OPTICAL FLUX | E
(T_{amb}=25°C)

		4000K		3000K	
CODE	Power (W)	Flux (lm)	Efficiency	Power (W)	Efficiency
THLB__012__	12,9	1.909	148	12,9	142
THLB__022__	15,4	2.318	151	15,4	144
THLB__032__	17,6	2.638	150	17,6	144
THLB__042__	20,6	3.147	153	20,6	142
THLB__052__	23,8	3.647	153	23,8	143
THLB__062__	27,4	4.197	153	27,4	143
THLB__072__	31,7	4.837	153	31,7	142
THLB__082__	35,4	5.379	152	35,4	142
THLB__092__	39,4	5.916	150	39,4	140
THLB__102__	44,8	6.688	149	44,8	140
THLB__112__	53,6	7.921	148	53,6	140
THLB__122__	61,8	9.293	150	61,8	144
THLB__132__	68,2	9.892	145	68,2	139
THLB__142__	75,9	10.904	144	75,9	138
THLB__152__	82,4	11.729	142	82,4	137
THLB__162__	92,1	12.911	140	92,1	135

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

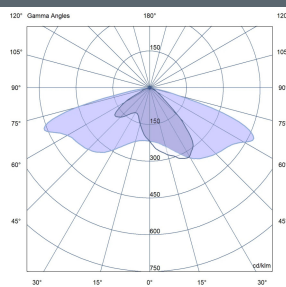
OPTICS

Narrow V14



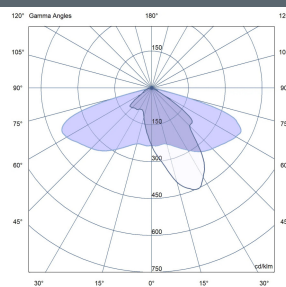
Asymmetrical street optics - Narrow beam
 $L / H = 0,5 \div 0,9$

Regular R-V25



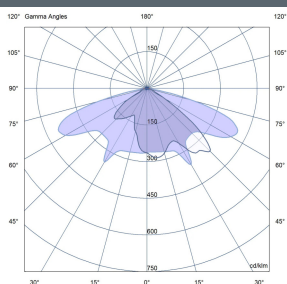
Asymmetrical street optics - Medium beam
 $L / H = 0,9 \div 1,1$

Regular Comfort A-V05



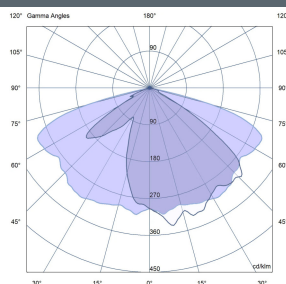
Asymmetrical Optics - Comfort
 $L / H = 1,0$

Wide W-V07



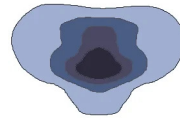
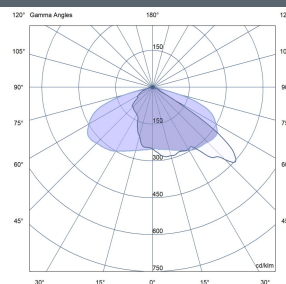
Asymmetrical street optics - Wide beam
 $L / H = 1,1 \div 1,3$

Wide B-V08



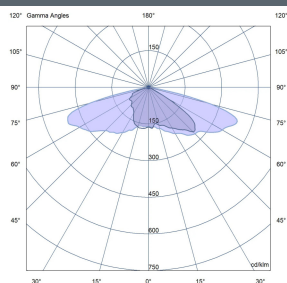
Asymmetrical street optics - Wide beam
 $L / H = 1,2 \div 1,5$

Extra Wide V20



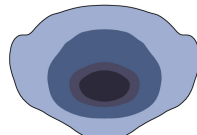
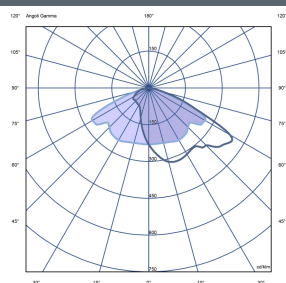
Asymmetrical optics - Very wide beam
 $L / H = 1,3 \div 1,6$

Front-Back V10



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

Forward Wide E-L01



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

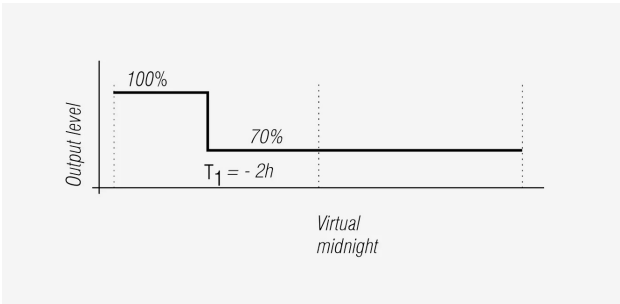
** Flux tolerance +/- 5%.

Other powers and flows on request.

External connections on request.

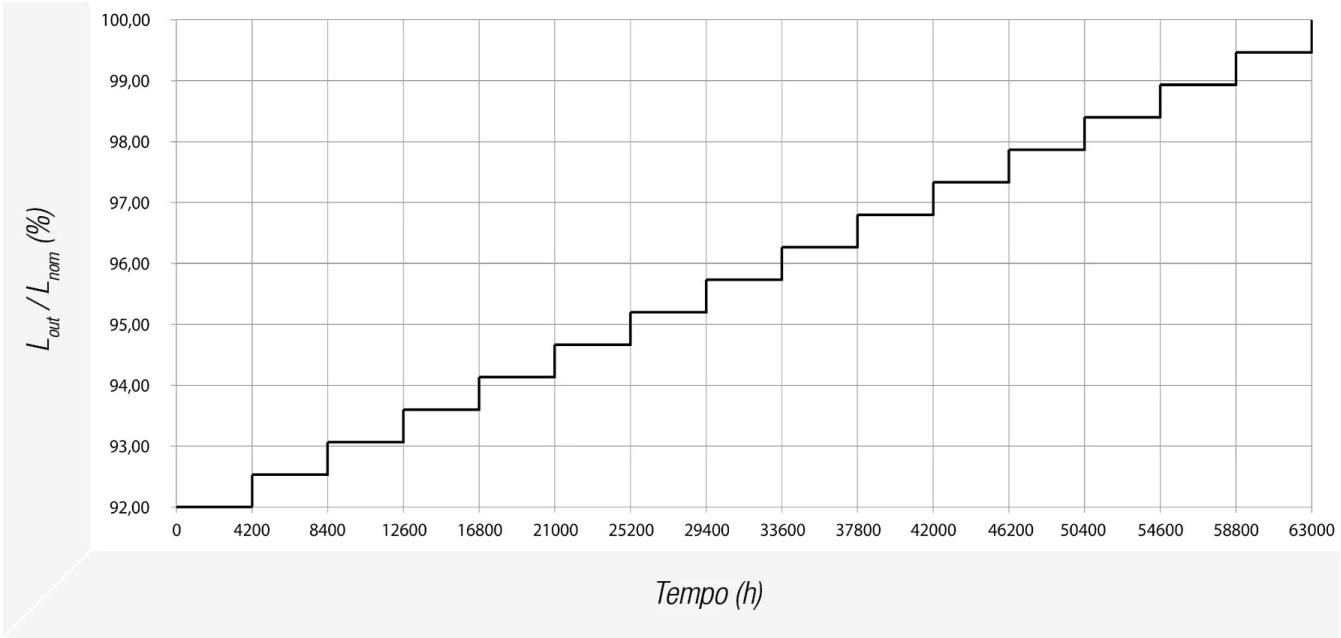
DIMMING

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)	Control	Various
THLB	X	X	X	X	X	X
	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		A Sentronic Connect+Virtual Midnight+CLO	
	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.