



CATALOGUE

LED for ALL

2014

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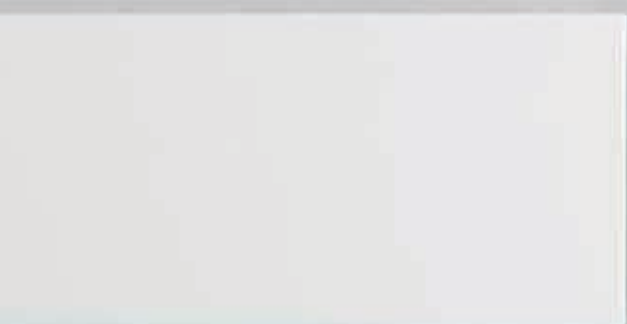
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DECORATIVE SPOTS



BALANCED COLLECTION

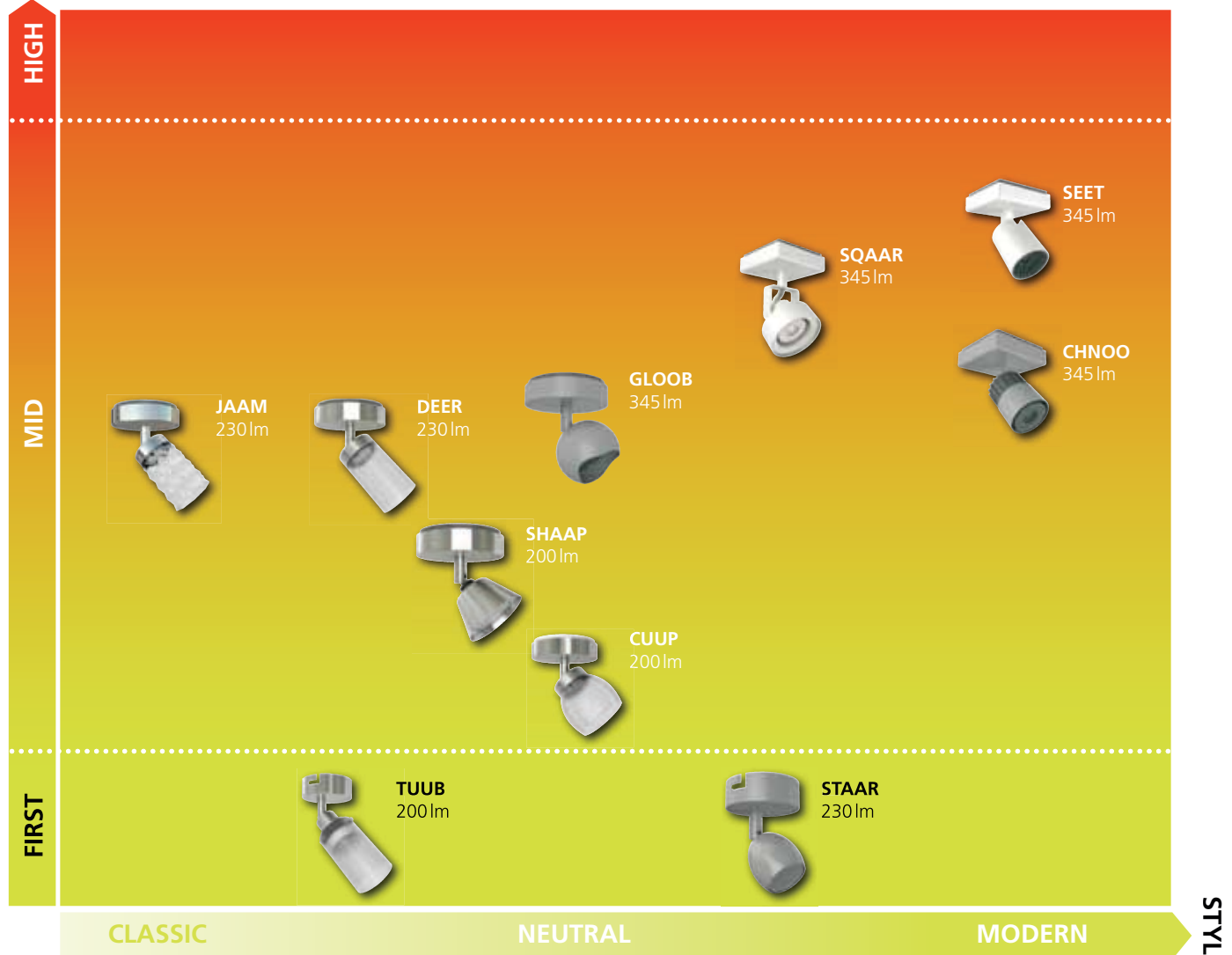
The LED integrated decorative spot range of LIGHT TOPPS is the most balanced range on the market:

- Very attractive price points
- Several styles: from technical to more classic/modern designs, metal or glass, it's all part of this collection
- Several light output experiences: wide beam replacing G9 or CFL spotlights for non-directive general light, spot beam fixtures replacing the very popular halogen luminaires creating directive light spots
- Best balance price / finishing: invisible LED, invisible screws, easy to install ...



Thanks to a special developed easy-to-install system, all screws are invisible, bringing this spot range to a higher design level.

PRICE
POINT



STYLE

STAAR

FIRST PRICE POINT

230lm wide beam
Best Buy Line
Best balance price/lm output

STAAR 3-SPOTS round

LT21130 glossy white
 LT21137 painted nickel



STAAR 1-SPOT

LT21110 glossy white
 LT21117 painted nickel



STAAR 2-SPOTS

LT21180 glossy white
 LT21187 painted nickel



STAAR 3-SPOTS

LT21170 glossy white
 LT21177 painted nickel

- Spot head: metal
- Base: pressed metal
- Small ceiling plates
- Visible LED
- Equivalent 35W

5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT21110	5420060403552	O	1	Y	wide beam	glossy white	20	230	230		3.000	N	15.000	120	70	70
LT21180	5420060403569	—	2	Y	wide beam	glossy white	20	230	230		3.000	N	15.000	140	90	230
LT21130	5420060404191	O	3	Y	wide beam	glossy white	20	230	230		3.000	N	15.000	120	130	130
LT21170	5420060403576	—	3	Y	wide beam	glossy white	20	230	230		3.000	N	15.000	140	90	410
LT21117	5420060403583	O	1	Y	wide beam	painted nickel	20	230	230		3.000	N	15.000	120	70	70
LT21187	5420060403590	—	2	Y	wide beam	painted nickel	20	230	230		3.000	N	15.000	140	90	230
LT21137	5420060404207	O	3	Y	wide beam	painted nickel	20	230	230		3.000	N	15.000	120	130	130
LT21177	5420060403606	—	3	Y	wide beam	painted nickel	20	230	230		3.000	N	15.000	140	90	410



LED



TUUB

FIRST PRICE POINT

200lm wide beam

Best Buy Line

First price point glass family



TUUB 2-LIGHT

LT21287 brushed nickel



TUUB 1-LIGHT

LT21217 brushed nickel



TUUB 3-LIGHT

LT21237 brushed nickel



TUUB 3-LIGHT round

LT21277 brushed nickel

- Spot head: frosted glass
- Base: pressed metal
- Small ceiling plates
- Visible LED
- Equivalent 35W

5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP		V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	WIDTH MM	DEPTH MM
LT21217	5420060403613	O	1	Y	wide beam	brushed nickel	20		230	200		3.000	N	15.000	150	70	70
LT21287	5420060403620	—	2	Y	wide beam	brushed nickel	20		230	200		3.000	N	15.000	170	220	70
LT21237	5420060403644	O	3	Y	wide beam	brushed nickel	20		230	200		3.000	N	15.000	150	125	125
LT21277	5420060403637	—	3	Y	wide beam	brushed nickel	20		230	200		3.000	N	15.000	170	380	70



CUUP

200lm wide beam
Contemporary glass family
Best balance price / finishing



CUUP 2-LIGHT

LT21677 brushed nickel



CUUP 1-LIGHT

LT21617 brushed nickel



CUUP 2-LIGHT

LT21687 brushed nickel



CUUP 3-LIGHT round

LT21637 brushed nickel

- Spot head: frosted glass
- Base: pressed metal
- Big ceiling plates
- Invisible screws
- Invisible LED
- Equivalent 30W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT21617	5420060403651	O	1	Y	wide beam	brushed nickel	20	230	200		3.000	N	20.000	140	85	85
LT21687	5420060403668	—	2	Y	wide beam	brushed nickel	20	230	200		3.000	N	20.000	160	90	225
LT21637	5420060403675	O	3	Y	wide beam	brushed nickel	20	230	200		3.000	N	20.000	140	200	200
LT21677	5420060403682	—	3	Y	wide beam	brushed nickel	20	230	200		3.000	N	20.000	160	140	425



SHAAP

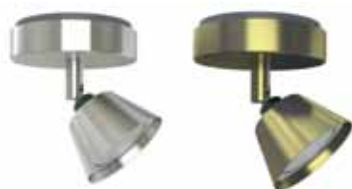
230lm wide beam

Classic modern

Premium finishing, invisible screws

SHAAP 2-LIGHT

LT22127 brushed nickel
LT22128 bronze



SHAAP 1-LIGHT

LT22117 brushed nickel
LT22118 bronze



SHAAP 3-LIGHT round

LT22137 brushed nickel
LT22138 bronze

- Spot head: metal
- Base: pressed metal
- Invisible LED
- Equivalent 35W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT22117	5420060403699	O	1	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	110	90	90
LT22127	5420060403705	—	2	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	110	90	220
LT22137	5420060403712	O	3	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	110	200	200
LT22118	5420060403729	O	1	Y	wide beam	bronze	20	230	230		3.000	N	20.000	110	90	90
LT22128	5420060403736	—	2	Y	wide beam	bronze	20	230	230		3.000	N	20.000	110	90	220
LT22138	5420060403743	O	3	Y	wide beam	bronze	20	230	230		3.000	N	20.000	110	200	200



DEER

230lm wide beam
Romantic modern
Premium finishing



DEER 3-LIGHT round

LT22337 brushed nickel



DEER 1-LIGHT

LT22317 brushed nickel



DEER 2-LIGHT

LT22387 brushed nickel



DEER 3-LIGHT

LT22367 brushed nickel

- Spot head: frosted glass
- Base: pressed metal
- Invisible screws
- Invisible LED
- Equivalent 35W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT22317	5420060403811	O	1	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	150	90	90
LT22387	5420060403828	—	2	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	170	90	230
LT22337	5420060403835	O	3	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	150	200	200
LT22367	5420060403842	—	4	Y	wide beam	brushed nickel	20	230	230		3.000	N	20.000	170	140	510



JAAM

230lm wide beam
Classic modern
Premium finishing



JAAM 3-LIGHT

LT22479 chrome



JAAM 1-LIGHT

LT22419 chrome



JAAM 2-LIGHT

LT22489 chrome



JAAM 4-LIGHT

LT22469 chrome

- Spot head: clear decorative glass
- Base: pressed metal
- Invisible screws
- Invisible LED
- Equivalent 35W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT22419	5420060403859	O	1	Y	wide beam	chrome	20	230	230		3.000	N	20.000	150	90	90
LT22489	5420060403866	—	2	Y	wide beam	chrome	20	230	230		3.000	N	20.000	170	90	230
LT22479	5420060403873	—	3	Y	wide beam	chrome	20	230	230		3.000	N	20.000	180	140	420
LT22469	5420060403880	—	4	Y	wide beam	chrome	20	230	230		3.000	N	20.000	180	140	570



GLOOB

345lm spot beam
Contemporary modern
Premium finishing

GLOOB 1-LIGHT

LT22210 matt white
 LT22217 painted grey



GLOOB 2-LIGHT

LT22220 matt white
 LT22227 painted grey



GLOOB 3-LIGHT round

LT22230 matt white
 LT22237 painted grey



- Spot head: metal
- Base: pressed metal
- Invisible screws
- Invisible LED
- Equivalent 50W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT22210	5420060403750	○	1	Y	spot beam	matt white	20	230	345		3.000	N	20.000	110	90	90
LT22220	5420060403767	—	2	Y	spot beam	matt white	20	230	345		3.000	N	20.000	110	90	220
LT22230	5420060403774	○	3	Y	spot beam	matt white	20	230	345		3.000	N	20.000	110	200	200
LT22217	5420060403781	—	1	Y	spot beam	painted grey	20	230	345		3.000	N	20.000	110	90	90
LT22227	5420060403798	○	2	Y	spot beam	painted grey	20	230	345		3.000	N	20.000	110	90	220
LT22237	5420060403804	—	3	Y	spot beam	painted grey	20	230	345		3.000	N	20.000	110	200	200



SQAAR

345lm spot beam
Modern
Premium finishing

SQAAR 2-LIGHT

LT22520 matt white
LT22527 brushed nickel



SQAAR 1-LIGHT

LT22510 matt white
LT22517 brushed nickel



SQAAR 3-LIGHT

LT22530 matt white
LT22537 brushed nickel



SQAAR 4-LIGHT

LT22540 matt white
LT22547 brushed nickel

- Spot head: metal
- Base: pressed metal
- Invisible screws
- Invisible LED
- Equivalent 50W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT22510	5420060403897	□	1	Y	spot beam	matt white	20	230	345		3.000	N	20.000	125	90	90
LT22520	5420060403903	—	2	Y	spot beam	matt white	20	230	345		3.000	N	20.000	125	90	220
LT22530	5420060403910	—	3	Y	spot beam	matt white	20	230	345		3.000	N	20.000	125	90	360
LT22540	5420060403927	□	4	Y	spot beam	matt white	20	230	345		3.000	N	20.000	125	210	210
LT22517	5420060403934	□	1	Y	spot beam	brushed nickel	20	230	345		3.000	N	20.000	125	90	90
LT22527	5420060403941	—	2	Y	spot beam	brushed nickel	20	230	345		3.000	N	20.000	125	90	220
LT22537	5420060403958	—	3	Y	spot beam	brushed nickel	20	230	345		3.000	N	20.000	125	90	360
LT22547	5420060403965	□	4	Y	spot beam	brushed nickel	20	230	345		3.000	N	20.000	125	210	210



CHNOO

345lm spot beam
Architectural modern
Premium finishing and materials



CHNOO 1-LIGHT

LT22617 aluminum paint



CHNOO 2-LIGHT

LT22627 aluminum paint



CHNOO 3-LIGHT

LT22637 aluminum paint



CHNOO 4-LIGHT

LT22647 aluminum paint

- Spot head: die cast
- Base: pressed metal
- Invisible screws
- Invisible LED
- Equivalent 50W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	IP	V	LM	BEAM°	COLOR	DIMM.	HEIGHT MM	DEPTH MM	WIDTH MM
LT22617	5420060403972	□	1	Y	spot beam	aluminum paint	20	230	345		3.000	N	115	90	90
LT22627	5420060403989	—	2	Y	spot beam	aluminum paint	20	230	345		3.000	N	115	90	220
LT22637	5420060403996	—	3	Y	spot beam	aluminum paint	20	230	345		3.000	N	115	90	360
LT22647	5420060404009	□	4	Y	spot beam	aluminum paint	20	230	345		3.000	N	115	210	210



SEET

345lm spot beam

Modern

Premium finishing and materials

SEET 3-LIGHT

LT22730 matt white
LT22738 brushed alu



SEET 1-LIGHT

LT22710 matt white
LT22718 brushed alu



SEET 2-LIGHT

LT22720 matt white
LT22728 brushed alu



SEET 4-LIGHT

LT22740 matt white
LT22748 brushed alu

- Spot head: die cast
- Base: pressed metal
- Invisible screws
- Invisible LED
- Equivalent 50W
- 20.000h



5 YEARS GUARANTEE

ART. CODE	EAN13	SHAPE	N° LAMPS	ADJ.	SPECIFICATIONS	FIXTURE COLOR	2IP	V	LM	BEAM°	COLOR	DIMM.	HOURS	HEIGHT MM	DEPTH MM	WIDTH MM
LT22710	5420060404054	□	1	Y	spot beam	matt white	20	230	345		3.000	N	20.000	115	90	90
LT22720	5420060404061	—	2	Y	spot beam	matt white	20	230	345		3.000	N	20.000	115	90	220
LT22730	5420060404078	—	3	Y	spot beam	matt white	20	230	345		3.000	N	20.000	115	90	360
LT22740	5420060404085	□	4	Y	spot beam	matt white	20	230	345		3.000	N	20.000	115	210	210
LT22718	5420060404016	□	1	Y	spot beam	brushed alu	20	230	345		3.000	N	20.000	115	90	90
LT22728	5420060404023	—	2	Y	spot beam	brushed alu	20	230	345		3.000	N	20.000	115	90	220
LT22738	5420060404030	—	3	Y	spot beam	brushed alu	20	230	345		3.000	N	20.000	115	90	360
LT22748	5420060404047	□	4	Y	spot beam	brushed alu	20	230	345		3.000	N	20.000	115	210	210



ATTRACTIVE PACKAGING

- Shopper marketing
- Product marketing
- Retail marketing



Clear product information overview:

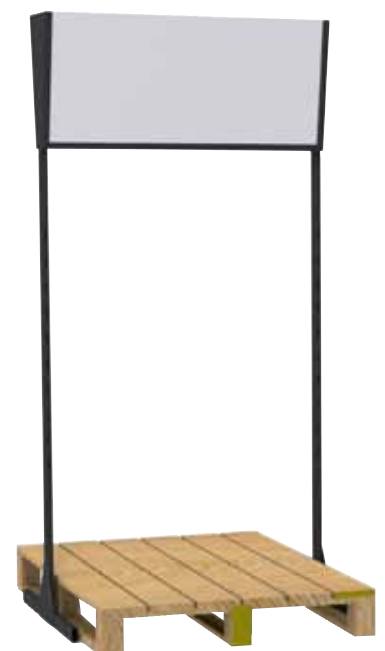
Light information

Luminaire information

Commercial information



SHOP SOLUTIONS



RECESSED SPOTS



CONCEPTUAL COLLECTION

LIGHT TOPPS offers you a conceptual and straightforward range of products based on 80/20 principle

- **Integrated LED** ranges at the best price points of the market
- Range of **key design and specifications** as IP44, IP65, spot beam vs. wide beam, etc.
 - High premium die cast versus pressed metal
 - Round or square models
 - Focus on most popular colors: white, brushed nickel, brushed aluminium, chrome
- **User friendly:** fast and easy installation for consumers as well as professionals
 - FASTCONNECT screwless connection boxes versus standard types of connection boxes
 - FASTLOCK lamp replacement versus clip lock rings
- **Conceptual and straightforward range** of products based on 80/20 principle

BEST PERFORMANCE  FAST CONNECT  FAST LOCK	ULTIMA  die cast 100 - 460lm + dimmable  ≈ 50W	 die cast 230 - 345lm  ≈ 35 - 50W	 die cast 42W / 230V 35W / 12V
	INTEGRA  die cast 230 - 380lm + iDUAL  ≈ 35 - 50W	 die cast 150 - 230lm  ≈ 20 - 35W	 die cast 42W / 230V 35W / 12V
	OPTIMA  pressed metal 144 - 230lm  ≈ 25 - 35W	 pressed metal 104lm  ≈ 20W	 pressed metal 42W / 230V 20W / 12V
	INTEGRATED LED	GU10 REPLACEABLE LED	HALOGEN 230V HALOGEN 12V

BEST BUY LINE



OPTIMA

144 to 230lm
Best Buy Line
Absolutely first price point



OPTIMA S25

144lm – spot beam



OPTIMA S35

230lm – spot beam



OPTIMA W35

230lm – wide beam

- Pressed metal
- Round fixed
- IP20
- Spot beam to replace halogen
- Wide beam to replace CFL
- Built-in driver
- Equivalent 25 to 35W
- 15.000h
- 1-light / 3-light sets



ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT11410	5420060404283	O	N	white	20	1	S25	230	2	144	300	40°	3.000	N	15.000	80	65	45
LT11417	5420060404290	O	N	brushed nickel	20	1	S25	230	2	144	300	40°	3.000	N	15.000	80	65	45
LT11430	5420060404306	O	N	white	20	3	S25	230	2	144	300	40°	3.000	N	15.000	80	65	45
LT11437	5420060404313	O	N	brushed nickel	20	3	S25	230	2	144	300	40°	3.000	N	15.000	80	65	45
LT11510	5420060404320	O	N	white	20	1	S35	230	4,2	230	500	40°	3.000	N	15.000	80	65	45
LT11517	5420060404337	O	N	brushed nickel	20	1	S35	230	4,2	230	500	40°	3.000	N	15.000	80	65	45
LT11530	5420060404344	O	N	white	20	3	S35	230	4,2	230	500	40°	3.000	N	15.000	80	65	45
LT11537	5420060404351	O	N	brushed nickel	20	3	S35	230	4,2	230	500	40°	3.000	N	15.000	80	65	45
LT11810	5420060404368	O	N	white	20	1	W35	230	4,2	230	120	100°	3.000	N	15.000	80	65	45
LT11817	5420060404375	O	N	brushed nickel	20	1	W35	230	4,2	230	120	100°	3.000	N	15.000	80	65	45
LT11830	5420060404382	O	N	white	20	3	W35	230	4,2	230	120	100°	3.000	N	15.000	80	65	45
LT11837	5420060404399	O	N	brushed nickel	20	3	W35	230	4,2	230	120	100°	3.000	N	15.000	80	65	45



BEST BUY LINE



OPTIMA

1000lm

Best Buy Line

Replacement CFL downlights



- Plastic
- Round fixed 230mm diameter
- IP20
- Wide beam 110°
- Built-in driver
- Equivalent 100W
- 15.000h
- 1-light
- 4000K cold white



LOW HEIGHT !

The recessed diameter is compatible with most of the downlights on the market for easy retrofitting.
For OPTIMA FW100 the height is much lower and no need for any additional clearance distance between the product and the ceiling.

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS	☐	V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT11910	5420060404474	○	N	white	20	1	W100	230		1000		110°	4.000	N	15.000	230	200	64
LT11917	5420060404481	○	N	nickel paint	20	1	W100	230		1000		110°	4.000	N	15.000	230	200	64



BEST QUALITY LINE



INTEGRA

230 to 380lm

IP65

Best price / quality / light performance

- Aluminum die cast
- Round fixed or adjustable
- IP23 / IP65
- Spot beam or wide beam
- Built-in driver
- Equivalent 35 to 50W
- 20.000h
- 1-light / 3-light sets



INTEGRA S35/S50

S35 - spot beam 230lm
S50 - spot beam 340lm



INTEGRA RGB

RGB + white
wide beam 350lm
with remote control



INTEGRA W35/W50

W35 - wide beam - 260lm
W50 - wide beam - 380lm

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT12410	5420060401671	O	N	white	65	1	RGB	230	6,5	350	130	110	3.000	Y	20.000	85	70	45
LT12417	5420060401688	O	N	brushed alu	65	1	RGB	230	6,5	350	130	110	3.000	Y	20.000	85	70	45
LT12510	5420060401695	O	Y	white	23	1	S35	230	5	230	700	30	3.000	N	20.000	95	74	57
LT12517	5420060401701	O	Y	white	23	1	S35	230	5	230	700	30	3.000	N	20.000	95	74	57
LT12530	5420060404498	O	Y	white	23	3	S35	230	5	230	700	30	3.000	N	20.000	95	74	57
LT12537	5420060404504	O	Y	brushed alu	23	3	S35	230	5	230	700	30	3.000	N	20.000	95	74	57
LT12610	5420060401718	O	Y	white	23	1	S50	230	7	340	1000	30	3.000	N	20.000	95	74	57
LT12617	5420060401725	O	Y	white	23	1	S50	230	7	340	1000	30	3.000	N	20.000	95	74	57
LT12630	5420060404535	O	Y	white	23	3	S50	230	7	340	1000	30	3.000	N	20.000	95	74	57
LT12637	5420060404542	O	Y	brushed alu	23	3	S50	230	7	340	1000	30	3.000	N	20.000	95	74	57
LT12810	5420060401732	O	N	white	65	1	W35	230	5	260	100	110	3.000	N	20.000	85	70	45
LT12818	5420060401749	O	N	white	65	1	W35	230	5	260	100	110	3.000	N	20.000	85	70	45
LT12830	5420060404511	O	N	white	65	3	W35	230	5	260	110	110	3.000	N	20.000	85	70	45
LT12838	5420060404528	O	N	brushed alu	65	3	W35	230	5	260	110	110	3.000	N	20.000	85	70	45
LT12910	5420060401756	O	N	white	65	1	W50	230	7	380	150	110	3.000	N	20.000	85	70	45
LT12918	5420060401763	O	N	white	65	1	W50	230	7	380	150	110	3.000	N	20.000	85	70	45
LT12970	5420060404559	O	N	white	65	3	W50	230	7	380	110	110	3.000	N	20.000	85	70	45
LT12978	5420060404566	O	N	brushed alu	65	3	W50	230	7	380	110	110	3.000	N	20.000	85	70	45
LT12890	5420060402609	O	N	white	65	1	W35	230	5,5	260	100	110	3.000	N	20.000	85	70	45
LT12898	5420060402616	O	N	brushed alu	65	1	W35	230	5,5	260	100	110	3.000	N	20.000	85	70	45
LT12990	5420060402623	O	N	white	65	1	W50	230	7,5	380	150	110	3.000	N	20.000	85	70	45
LT12998	5420060402630	O	N	brushed alu	65	1	W50	230	7,5	380	150	110	3.000	N	20.000	85	70	45



With separate driver

INTEGRA

Wide beam vs Spot beam



- **Multiple-purpose** integrated LED downlight, installation in any indoor area: IP65
- Wide beam perfect for **flood lighting**
- **iDUAL™ engine** with dimmable white and RGB
- **2 versions available:** built-in LED driver version & remote LED driver version



- Integrated LED recessed downlight
- Chip-On-Board LED
- Low recessed height under ceiling
- Very elegant design
- Same light output as GU10 35W halogen, spot beam

Driver



Built-in driver
= compact shape



Built-in driver
= integrated
terminal block



Remote LED driver
= Ultra-flat design
(French market)



Adjustable
with +/- 25 degrees



Requires only 60mm
under ceiling

Light output

W50



Latest SMD LED
technology
380lm

W35



Latest SMD LED
technology
260lm

iDUAL



RGB remote control
(including plastic holder)
for color selection and
5 programs for your well-being



S50 / S35



Latest LED
Chip-On-Board technology
Unique light point

BEST PERFORMANCE LINE

ULTIMA

100 to 460lm
Superior light performance
Dimmable S500



ULTIMA S300
300lm - Spot beam



ULTIMA S500*
460lm - spot beam
dimmable

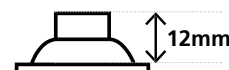
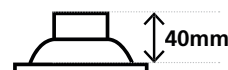


ULTIMA S200
200lm - spot beam



ULTIMA S100
100lm - spot beam

- Aluminum die cast
- Round fixed or adjustable
- IP20 / IP23
- Spot beam
- Built-in driver
- Equivalent 50W and more
- 20.000h
- 1-light / 2-light / 3-light sets



INFO

- Each spot is pre-connected with 15cm cable and fastener
- * Dimmable (leading + trailing edge phase cut dimmer)

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS	☐=	V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT13438	5420060401930	○	N	brushed alu	20	3	S100	230	1,8	100	130	40	3.000	N	30.000	43	39	12
LT13439	5420060401947	○	N	chrome	20	3	S100	230	1,8	100	130	40	3.000	N	30.000	43	39	12
LT13530	5420060401916	○	Y	white	23	3	S200	230	3,5	200	1100	20	3.000	N	30.000	58	50	40
LT13538	5420060401923	○	Y	brushed alu	23	3	S200	230	3,5	200	1100	20	3.000	N	30.000	58	50	40
LT13620	5420060401893	○	Y	white	23	2	S300	230	5,5	300	1000	25	3.000	N	30.000	91	80	40
LT13628	5420060401909	○	Y	brushed alu	23	2	S300	230	5,5	300	1000	25	3.000	N	30.000	91	80	40
LT13710	5420060401879	○	Y	white	23	1	S500	230	14	460	1000	35	3.000	Y	30.000	91	80	66
LT13718	5420060401886	○	Y	brushed alu	23	1	S500	230	14	460	1000	35	3.000	Y	30.000	91	80	66



BEST BUY LINE



104lm LED wide beam
Best Buy Line
3 and 5-light sets



- Pressed metal
- Round fixed or adjustable down light rings
- 230V GU10 lamp holders
- Cliplock - metal brackets
- Basic connection boxes
- Glossy white / brushed nickel
- 3-light / 5-light sets

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT11100	5420060400353	O	N	white	23	3		230	42	490	810	33	2.700	Y	1.000	80	65	70
LT11107	5420060400360	O	N	brushed nickel	23	3		230	42	490	810	33	2.700	Y	1.000	80	65	70
LT11130	5420060401510	O	Y	white	23	3		230	42	490	810	33	2.700	Y	1.000	80	65	70
LT11137	5420060401527	O	Y	brushed nickel	23	3		230	42	490	810	33	2.700	Y	1.000	80	65	70
LT11150	5420060401534	O	Y	white	23	5		230	42	490	810	33	2.700	Y	1.000	80	65	70
LT11157	5420060401541	O	Y	brushed nickel	23	5		230	42	490	810	33	2.700	Y	1.000	80	65	70
LT11230	5420060401558	O	Y	white	23	3		12	20	210	230	30	2.700	Y	1.000	80	65	70
LT11237	5420060401565	O	Y	brushed nickel	23	3		12	20	210	320	30	2.700	Y	1.000	80	65	70
LT11250	5420060401572	O	Y	white	23	5		12	20	210	320	30	2.700	Y	1.000	80	65	70
LT11257	5420060401589	O	Y	brushed nickel	23	5		12	20	210	320	30	2.700	Y	1.000	80	65	70
LT11300	5420060400575	O	N	white	23	3	W20	230	1,5	104	50	100	3.000	N	20.000	80	65	70
LT11307	5420060400582	O	N	brushed nickel	23	3	W20	230	1,5	104	50	100	3.000	N	20.000	80	65	70
LT11360	5420060404450	O	N	white	23	5	W20	230	1,5	104	50	100	3.000	N	20.000	80	65	70
LT11367	5420060404467	O	N	brushed nickel	23	5	W20	230	1,5	104	50	100	3.000	N	20.000	80	65	70



BEST QUALITY LINE



150 to 230lm LED
Spot vs. wide beam
3-light sets



- Aluminum die cast
- Adjustable down light rings
- 230V GU10 lamp holders
- Clip lock - metal brackets
- Basic connection boxes
- Glossy white / brushed nickel / CNC
- 3-light sets

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT12130	5420060401596	○	Y	white	23	3		230	42	490	810	33	2.700	Y	1.000	82	74	75
LT12137	5420060401602	○	Y	brushed alu	23	3		230	42	490	810	33	2.700	Y	1.000	82	74	75
LT12139	5420060404573	○	Y	CNC	23	3		230	42	490	810	33	2.700	Y	1.000	82	74	75
LT12149	5420060404580	□	Y	CNC	23	3		230	42	490	810	33	2.700	Y	1.000	91x91	74	75
LT12230	5420060401619	○	Y	white	23	3		12	35	440	810	33	2.700	Y	2.000	82	74	75
LT12237	5420060401626	○	Y	brushed alu	23	3		12	35	440	810	33	2.700	Y	2.000	82	74	75
LT12239	5420060404597	○	Y	CNC	23	3		12	35	440	810	33	2.700	Y	2.000	82	74	75
LT12249	5420060404603	□	Y	CNC	23	3		12	35	440	810	33	2.700	Y	2.000	91x91	74	75
LT12330	5420060401633	○	Y	white	23	3	S20	230	3,5	150	400	33	3.000	N	15.000	82	74	75
LT12337	5420060401640	○	Y	brushed alu	23	3	S20	230	3,5	150	400	33	3.000	N	15.000	82	74	75
LT12330B	5420060404849	○	Y	white	23	3	S35i	230	5	230	500	36	3.000	N	15.000	82	74	75
LT12337B	5420060404856	○	Y	brushed alu	23	3	S35i	230	5	230	500	36	3.000	N	15.000	82	74	75
LT12339	5420060404610	○	Y	CNC	23	3	S35i	230	5	230	500	36	3.000	N	15.000	82	74	75
LT12349	5420060404627	□	Y	CNC	23	3	S35i	230	5	230	500	36	3.000	N	15.000	91x91	74	75
LT12930	5420060401657	○	Y	white	23	3	W35i	230	2,5	230	120	100	3.000	N	15.000	82	74	75
LT12937	5420060401664	○	Y	brushed alu	23	3	W35i	230	2,5	230	120	100	3.000	N	15.000	82	74	75



ECO
HALO

HALO
12V

LED

BEST PERFORMANCE LINE

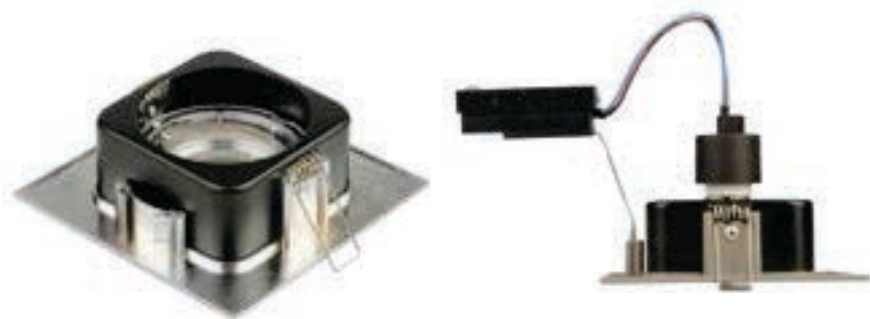
230 to 345lm

**FAST CONNECT**

screwless & fast

**FAST LOCK**

easy lamp replacement

**Adjustable in two directions
(X/Y axis)**

- Aluminum die cast
- Square adjustable in two directions (X/Y axis)
- 230V GU10 lamp holders
- Fastlock
- Fastconnect (screwless)
- 1-light

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	SQUARE RING MM	Ø HOLE MM	HEIGHT MM
LT13218	5420060401954	□	Y	brushed alu	23	1		12	35	440	810	33	2.700	Y	2.000	115	104	95
LT13318	5420060401961	□	Y	brushed alu	23	1	S35i	230	5,5	230	500	36	3.000	N	15.000	115	104	95
LT13318B	5420060404832	□	Y	brushed alu	23	1	S50i	230	6,5	345	800	36	3.000	N	25.000	115	104	95

**HALO
12V****LED**

BEST PERFORMANCE LINE



230 to 345lm LED
Spot vs wide beam
1- and 3-light sets



FAST CONNECT

screwless & fast



Slide open the
connection box
cover



Push terminal
button to open
the cable clamp



Insert the stripped
wire in the holes and
release the button



Insert terminal
in the box



Close the
connection box
cover



Wiring finished!

No screwdriver needed for wiring
Save up to 50% wiring time



FAST LOCK

easy lamp replacement



Twist to open
the spot



Twist to remove
the lamp



Twist to close
Replacement finished

- Aluminum die cast
- Round or square adjustable
- Spots IP23 MR16
- GU10 lamp holders
- Fastlock
- Fastconnect (screwless)
- 1-light / 3-light sets

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT13110	5420060400070	○	Y	white	23	1		230	42	490	810	33	2.700	Y	1.000	91	80	90
LT13116	5420060404870	○	Y	bronze	23	1		230	42	490	810	33	2.700	Y	1.000	91	80	90
LT13117	5420060400087	○	Y	brushed nickel	23	1		230	42	490	810	33	2.700	Y	1.000	91	80	90
LT13130	5420060400094	○	Y	white	23	3		230	42	490	810	33	2.700	Y	1.000	91	80	90
LT13137	5420060400100	○	Y	brushed nickel	23	3		230	42	490	810	33	2.700	Y	1.000	91	80	90
LT13210	5420060400230	○	Y	white	23	1		12	35	440	810	33	2.700	Y	2.000	91	80	90
LT13217	5420060400247	○	Y	brushed nickel	23	1		12	35	440	810	33	2.700	Y	2.000	91	80	90
LT13219	5420060401770	○	Y	chrome	23	1		12	35	440	810	33	2.700	Y	2.000	91	80	90
LT13220	5420060401787	□	Y	white	23	1		12	35	440	810	33	2.700	Y	2.000	91x91	80	90
LT13227	5420060401794	□	Y	brushed nickel	23	1		12	35	440	810	33	2.700	Y	2.000	91x91	80	90
LT13230	5420060400254	○	Y	white	23	3		12	35	440	810	33	2.700	Y	2.000	91	80	90
LT13237	5420060400261	○	Y	brushed nickel	23	3		12	35	440	810	33	2.700	Y	2.000	91	80	90
LT13239	5420060401800	○	Y	chrome	23	3		12	35	440	810	33	2.700	Y	2.000	91	80	90
LT13240	5420060401817	□	Y	white	23	3		12	35	440	810	33	2.700	Y	2.000	91x91	80	90
LT13247	5420060401824	□	Y	brushed nickel	23	3		12	35	440	810	33	2.700	Y	2.000	91x91	80	90
LT13310	5420060400278	○	Y	white	23	1		230	5	230	500	36	3.000	N	15.000	91	80	90
LT13316	5420060404887	○	Y	bronze	23	1		230	5	230	500	36	3.000	N	15.000	91	80	90
LT13317	5420060400285	○	Y	brushed nickel	23	1		230	5	230	500	36	3.000	N	15.000	91	80	90
LT13320	5420060402531	□	Y	white	23	1		230	5	230	500	36	3.000	N	15.000	91x91	80	90
LT13327	5420060402548	□	Y	brushed nickel	23	1		230	5	230	500	36	3.000	N	15.000	91x91	80	90
LT13330	5420060400292	○	Y	white	23	3		230	5	230	500	36	3.000	N	15.000	91	80	90
LT13337	5420060400308	○	Y	brushed nickel	23	3		230	5	230	500	36	3.000	N	15.000	91	80	90
LT13340	5420060402555	□	Y	white	23	3		230	5	230	500	36	3.000	N	15.000	91x91	80	90
LT13347	5420060402562	□	Y	brushed nickel	23	3		230	5	230	500	36	3.000	N	15.000	91x91	80	90
LT13310B	5420060404757	○	Y	white	23	1		230	6,5	345	800	36	3.000	N	25.000	91	80	90
LT13317B	5420060404764	○	Y	brushed nickel	23	1		230	6,5	345	800	36	3.000	N	25.000	91	80	90
LT13320B	5420060404771	□	Y	white	23	1		230	6,5	345	800	36	3.000	N	25.000	91x91	80	90
LT13327B	5420060404788	□	Y	brushed nickel	23	1		230	6,5	345	800	36	3.000	N	25.000	91x91	80	90
LT13330B	5420060404795	○	Y	white	23	3		230	6,5	345	800	36	3.000	N	25.000	91	80	90
LT13337B	5420060404801	○	Y	brushed nickel	23	3		230	6,5	345	800	36	3.000	N	25.000	91	80	90
LT13340B	5420060404818	□	Y	white	23	3		230	6,5	345	800	36	3.000	N	25.000	91x91	80	90
LT13347B	5420060404825	□	Y	brushed nickel	23	3		230	6,5	345	800	36	3.000	N	25.000	91x91	80	90
LT13910	5420060401831	○	Y	white	23	1		230	5,5	345	150	100	3.000	N	15.000	91	80	90
LT13917	5420060401848	○	Y	brushed nickel	23	1		230	5,5	345	150	100	3.000	N	15.000	91	80	90
LT13930	5420060401855	○	Y	white	23	3		230	5,5	345	150	100	3.000	N	15.000	91	80	90
LT13937	5420060401862	○	Y	brushed nickel	23	3		230	5,5	345	150	100	3.000	N	15.000	91	80	90



FAST CONNECT
screwless & fast



FAST LOCK
easy lamp replacement



INTEGRA

iDUAL

Remote control

IP65 ●●●●●

Can be used in showers



- Aluminum die cast
- Round fixed
- IP65
- RGB 768 colors
- Wide beam 350lm
- Built-in driver
- 20.000h
- 1-light

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT15410	5420060402050	O	N	white	65	1	W50	230	6,5	380	150	110	3.000	Y	20.000	85	70	45
LT15417	5420060402067	O	N	brushed alu	65	1	W50	230	6,5	380	150	110	3.000	Y	20.000	85	70	45



SLIM DOWNLIGHT

Ultra slim 14mm recess only
New generation, improved light output
IP44 



INFO

- Each spot is pre-connected with 15cm cable and fastener
- 50cm interconnection cable with fastener per spot

- Plastic
- High brightness SMD LED
- Ultra slim 14mm recess only
- Glossy white / brushed nickel / chrome
- 30.000h
- 3-light sets



ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT14430	5420060402074	O	N	white	44	3		230	2	140	40	100	3.000	N	30.000	67	65	14
LT14437	5420060402081	O	N	brushed nickel	44	3		230	2	140	40	100	3.000	N	30.000	67	65	14
LT14439	5420060402098	O	N	chrome	44	3		230	2	140	40	100	3.000	N	30.000	67	65	14





BATHROOM LINE



230lm LED

IP65 

Can be used in showers



- Aluminum die cast
- IP65 shower downlight
- Metal brackets
- Silicone seals
- Glass protection
- 1-light

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT15210	5420060400056	O	N	white	65	1		12	35	440	810	33	2.700	N	2.000	85	70	95
LT15217	5420060400063	O	N	brushed nickel	65	1		12	35	440	810	33	2.700	N	2.000	85	70	95
LT15310	5420060402036	O	N	white	65	1	S35i	230	5	230	500	36	3.000	N	15.000	85	70	95
LT15317	5420060402043	O	N	brushed nickel	65	1	S35i	230	5	230	500	36	3.000	N	15.000	85	70	95

HALO
12V

LED



230lm LED
IP44 ○○○○



- Aluminium die cast
- IP44
- Round fixed down light rings
- Metal brackets
- Fastconnect Screwless connection boxes
- 1-light

						N°										Ø RING	Ø HOLE	HEIGHT
ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	LAMPS		V	W	LM	Cd	BEAM°	COLOR	DIMM.	HOURS	MM	MM	MM
LT14210	5420060401978	O	N	white	44	1		12	35	440	810	33	2.700	Y	2.000	81	70	90
LT14217	5420060401985	O	N	brushed nickel	44	1		12	35	440	810	33	2.700	Y	2.000	81	70	90
LT14219	5420060401992	O	N	chrome	44	1		12	35	440	810	33	2.700	Y	2.000	81	70	90
LT14310	5420060402005	O	N	white	44	1	S35i	230	5	230	500	36	3.000	N	15.000	81	70	90
LT14317	5420060402012	O	N	brushed nickel	44	1	S35i	230	5	230	500	36	3.000	N	15.000	81	70	90
LT14319	5420060402029	O	N	chrome	44	1	S35i	230	5	230	500	36	3.000	N	15.000	81	70	90



HALO
12V

LED

MOTION DETECTOR



- Easy wiring with pre-connected connection boxes and 20cm cable
- Time setting Lux sensitivity setting
- Compatible with Halogen and LED

ART. CODE	EAN13	SHAPE	ADJ.	FIXTURE COLOR	IP	N° LAMPS		V	Ø RING MM	Ø HOLE MM	HEIGHT MM
LT19000	5420060400438	○	Y	white	20	1		230	91	80	60
LT19007	5420060400445	○	Y	brushed alu	20	1		230	91	80	60

PACKAGING & SHOP SOLUTIONS

ATTRACTIVE PACKAGING



Color indicates lamp type:

- LED
- HALOGEN 230V
- HALOGEN 12V

Light output information
Beam angle information
Equivalent wattage information



Box color indicates range:

- BEST PERFORMANCE RANGE
- BEST QUALITY RANGE
- BEST BUY RANGE

Spot beam vs. wide beam
clearly shown on the box

Fixture information: used material,
Fastconnect, Fastlock, Life time ...

SHOP SOLUTIONS

Key message to grasp
attention consumer

More detailed information
about the **fixture**

Information about
the lamp / light technology



CABINET LIGHTING



MOOD LIGHTING

TAPES

Flexible mood lighting
Cuttable every 10 cm
Self adhesive tape

PLUG & TAPE

- Mono color:
warm white (3000K), red and blue
- 1m kit non expandable
(white version also in 2m kit available)



FLEX TAPE RGB

- 1,5m kit non expandable
- RGB remote control included
- Epoxy protective cover



ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM
LT84019	5420060403255	Flex Tape RGB with remote control - 1,5m kit	N/A	-	1		12	3x1,3	N/A	120	RGB	N	30.000	3x500	9
LT83010	5420060403217	Plug and Tape - 1m kit non-expandable	N/A	-	3		12	2,4	150	120	3.000	N	30.000	1.000	9
LT83012	5420060403224	Plug and Tape - 1m kit non-expandable - red	N/A	-	1		12	2,4	150	120	R	N	30.000	1.000	9
LT83015	5420060403231	Plug and Tape - 1m kit non-expandable - blue	N/A	-	3		12	2,4	150	120	B	N	30.000	1.000	9
LT83020	5420060403248	Plug and Tape - 2m kit non-expandable	N/A	-	3		12	4,8	150	120	3.000	N	30.000	2.000	9



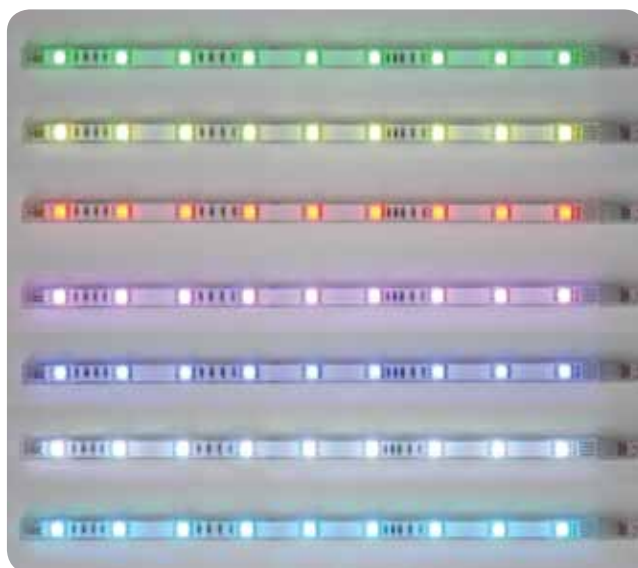
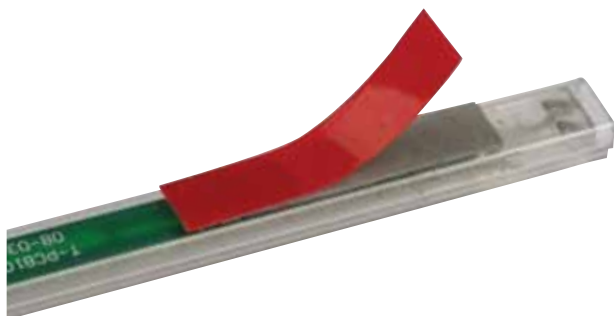
LED



MOOD LIGHTING

LED STRIPES

Durable mood lighting
Easy to install with self-adhesive tape
Unnoticeable



- Transparent fixture
- Fixation clips
- 3 stripes kit
- Color: RGB or warm white (3000K)

ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM	HEIGHT MM
LT82039	5420060403187	LED stripe RGB with on-line RGB controller - 3 kit	transparent	-	3		12	1,3	N/A	120	RGB 7 colors	N	30.000	263	9	-
LT82030	5420060403194	LED stripe white - 3 kit	transparent	-	3		12	0,72	35	120	6.000	N	30.000	263	9	-

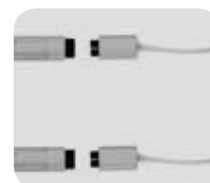


LED

FUNCTIONAL LIGHTING

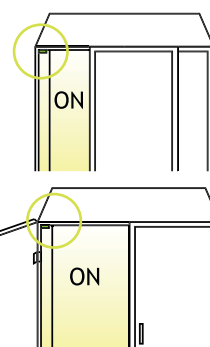
LED TUBES

Ideal cabinet and shelf lighting
Modern and discreet aluminium design
Interconnectable



- 2 VERSIONS: integrated switch or door sensor switch compatible
- Aluminium casing
- Color: warm white (3000K)

DOORSENSOR



sensor sliding door

sensor swing door

ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM	HEIGHT MM
LT82117	5420060404405	SMD LED tube with online switch - 1 kit	alu paint	20	1	20 LED	12	2	85	120	alu paint	N	30.000	385	12	12
LT82137	5420060404412	SMD LED tube with online switch - 3 kit	alu paint	20	3	10 LED	12	1	38	120	alu paint	N	30.000	385	12	12
LT82119	5420060404436	SMD LED tube with door sensor switch - 1 kit	alu paint	20	1	20 LED	12	2	85	120	alu paint	N	30.000	385	12	12
LT82139	5420060404443	SMD LED tube with door sensor switch - 3 kit	alu paint	20	3	10 LED	12	1	38	120	alu paint	N	30.000	385	12	12



LED

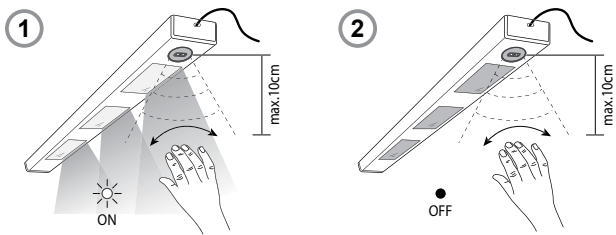
FUNCTIONAL LIGHTING

POWER BAR

Counter top lighting
Hidden connection system
Direct main supply connection



- 2 VERSIONS:
switch on main or hand sensor switch
- Color: warm white (3000K)

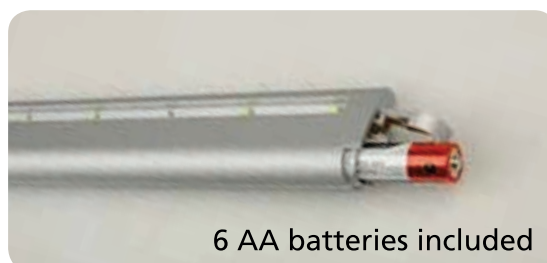


ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM	HEIGHT MM
LT80107	5420060403170	LED Power bar light with switch on main	brushed nickel	-	1	42 SMD LED	230	3,7	280	120	3.000	N	30.000	480	40	20
LT80109	5420060404429	LED Power bar light with hand sensor switch	brushed nickel	-	1	42 SMD LED	230	4,2	280	120	3.000	N	30.000	480	40	20



BATTERY SWITCH BAR

Battery operated
Magnetic switch
Slim design and fully portable



- Integrated LED
- 1 fixation bar with 2 screws
- On/off/auto 3 positions switch
- 6 month battery lifetime in normal use
- Auto mode with automatic switch off function
- Cool white 6500K

ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM	HEIGHT MM
LT81007	5420060403262	LED Switch Battery Bar 6 AA batteries included	alu paint	-	3		NA	0,7	30	120	6.500	N	20.000	40	20	400



LED

FUNCTIONAL LIGHTING

LED DISK

Counter top lighting
Hidden connection system
Direct main supply connection



- Easy to install: self-adhesive or fixation with a screw
- High brightness SMD LED
- Color: warm white (3000K)

ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM	HEIGHT MM
LT89030	5420060403200	SMD LED Discs - 3 kit	white	-	3		12	3x1,2	90	120	3.000	N	30.000	58	11	58



LED

TRIANGLES

Counter top lighting

High brightness SMD LED

Same brightness and color as halogen



- Integrated LED
- Pre-connected kit with driver
- Same brightness and color as halogen

ART. CODE	EAN13	SPECIFICATION	FIXTURE COLOR	IP	N°		V	W	LM	BEAM°	COLOR	DIMM.	HOURS	WIDTH MM	DEPTH MM	HEIGHT MM
LT89330	5420060404900	SMD LED triangle downlight	white	-	3		12	1,8	140	120	3.000	N	30.000	122	40	122
LT89337	5420060404917	SMD LED triangle downlight	brushed nickel	-	3		12	1,8	140	120	3.000	N	30.000	122	40	122



LED

PACKAGING & SHOP SOLUTIONS

ATTRACTIVE PACKAGING



• Light output information & light color

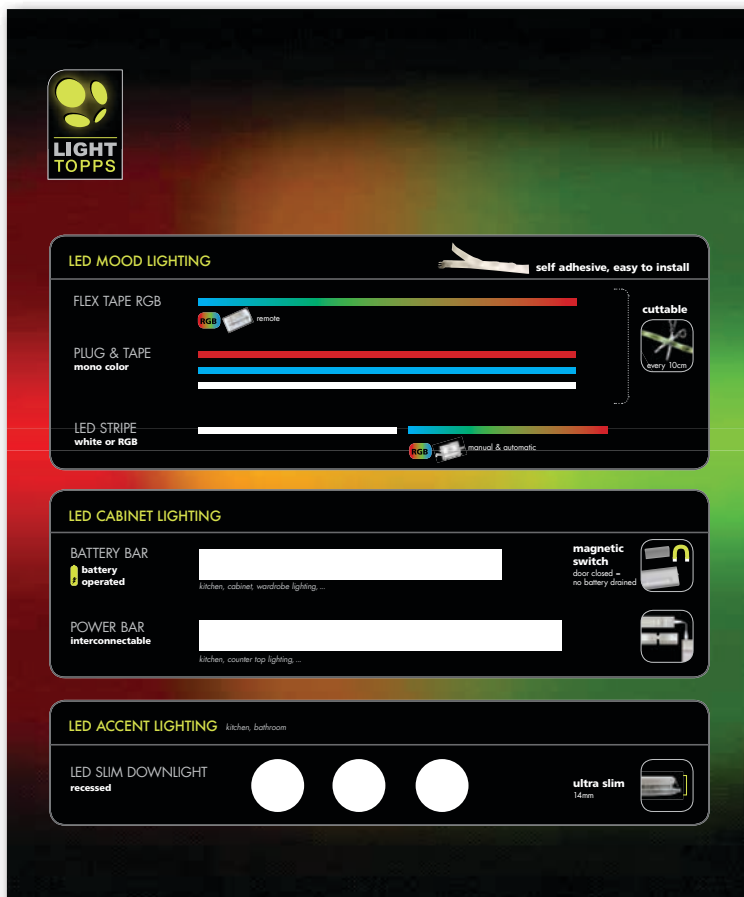
• Product picture

• Product information



• Kit information

MOOD LIGHTING CONCEPT



LIGHT SOURCES



LED ERP2 LIGHT SOURCES

DIRECTIONAL SERIES

 GU10		 GU5.3		 R63 E27 / R50 E14	
Spot beam 36°	Wide beam 100°	Spot beam 36°	Wide beam 100°	Spot beam 36°	
 ≈20W 104lm IEC GU10 S20i	 104lm IEC GU10 W20i	 ≈20W 207lm IEC GU5.3 S20i	 207lm IEC GU5.3 W20i	/	
 ≈35W 230lm IEC GU10 S35i / S35Di	 230lm IEC GU10 W35i	 ≈35W 345lm IEC GU5.3 S35i	 345lm IEC GU5.3 W35i	 ≈40W 196lm IEC R50 S40i	
 ≈50W 345lm GU10 S50i / S50Di	 345lm IEC GU10 W50i	/		 ≈40W 207lm IEC R63 S40i	
/	 RGB GU10 RGB	/	/	/	

NON-DIRECTIONAL SERIES

 C E14	 CA E14	 G E14 / E27	 A60 E27	
Non-directional	Non-directional	Non-directional	Non-directional	Omni-directional
 ≈25W 250lm IEC C E14 C25	 ≈25W 250lm CA E14 C25	 ≈25W 250lm IEC G E14/E27 C25	 ≈40W 470lm IEC A E27 C40	 ≈25W 250lm IEC A E27 X25
/	/	 RGB G E14/E27 RGB	 ≈60W 806lm IEC A E27 C60	/
/	/	/	 RGB A E27 RGB	/

DIRECTIONAL LAMPS

SPOT BEAM



ErP2 ready
Suitable for accent lighting or
general lighting



- Instant start
- Warm white 3000K
- Replacement for halogen GU10 lamps up to 50W
- Energy class A+ with very low electricity consumption
- 15 years lifetime
- CRI 80



ART. CODE	EAN13	LAMP HOLDER	SPECIFICATION	N° LAMPS		V	LM	BEAM°	COLOR	DIMM.	HOURS
LT01136	5420060402227	GU10	Spot Beam	1	S50i	230	345	36	3.000	N	15.000
LT01137	5420060402395	GU10	Spot Beam	1	S50Di	230	345	36	3.000	Y	15.000
LT01220	5420060401343	GU10	Spot Beam	1	S35i	230	230	36	3.000	N	15.000
LT01221	5420060402586	GU10	Spot Beam	1	S35Di	230	230	36	3.000	Y	15.000
LT01213	5420060401480	GU10	Spot Beam	1	S20i	230	104	36	3.000	N	15.000
LT01620	5420060402128	R63	Spot Beam	1	S40i	230	207	36	3.000	N	15.000
LT01720	5420060402135	R50	Spot Beam	1	S40i	230	196	36	3.000	N	15.000
LT02136	5420060402234	GU5,3	Spot Beam	1	S35i	12	345	36	3.000	N	15.000
LT02220	5420060402111	GU5,3	Spot Beam	1	S20i	12	207	36	3.000	N	15.000



LED

* When we went to press, the lamps were in their final release stage. Therefore specifications may be slightly different.

DIRECTIONAL LAMPS

WIDE BEAM

ErP2 ready

Suitable for general lighting



- Instant start
- Warm white 3000K
- Replacement for halogen GU10 lamps up to 50W
- Energy class A+ with very low electricity consumption
- 15 years lifetime
- CRI 80

ErP2

ART. CODE	EAN13	LAMP HOLDER	SPECIFICATION	N° LAMPS		V	LM	BEAM°	COLOR	DIMM.	HOURS
LT01109	5420060401367	GU10	Wide Beam	1	W20i	230	104	100	3.000	N	15.000
LT01120	5420060402173	GU10	Wide Beam	1	W35i	230	230	100	3.000	N	15.000
LT01135	5420060402159	GU10	Wide Beam	1	W50i	230	345	100	3.000	N	15.000
LT02109	5420060401374	GU5.3	Wide Beam	1	W10i	12	207	100	3.000	N	25.000
LT01135	5420060402180	GU5.3	Wide Beam	1	W35i	12	200	100	3.000	N	20.000



LED

* When we went to press, the lamps were in their final release stage. Therefore specifications may be slightly different.

NON-DIRECTIONAL LAMPS



ErP2 ready
Suitable for general lighting
Equivalent up to 60W

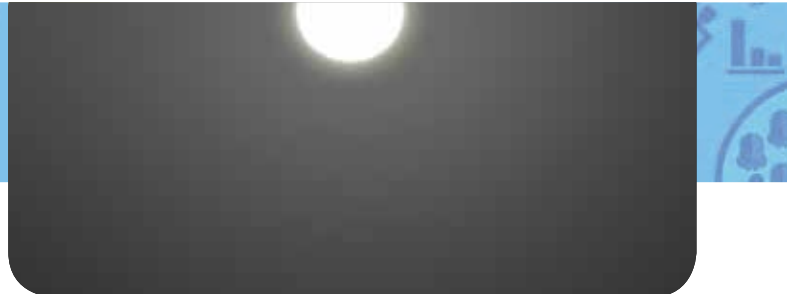
- Instant start
- Warm white 3000K
- Same light output as traditional incandescent source 25W/40W/60W
- Energy class A with very low electricity consumption
- 15-20 years lifetime
- CRI 80



ART. CODE	EAN13	LAMP HOLDER	SPECIFICATION	N° LAMPS		V	W	LM	BEAM°	COLOR	DIMM.	HOURS
LT01225	5420060400988	E27	Omni-Directional	1	A X25	230	4	250	280	3.000	N	15.000
LT01250	5420060401404	E27	Non-Directional	1	A C40	230	5,8	470	140	3.000	N	15.000
LT01280	5420060402203	E27	Non-Directional	1	A C60	230	9,5	806	140	3.000	N	15.000
LT01316	5420060400995	E14	Non-Directional	1	CE C25	230	4	250	140	3.000	N	15.000
LT01325	5420060401008	E14	Non-Directional	1	C C25	230	4	250	140	3.000	N	15.000
LT01425	5420060401015	E14	Non-Directional	1	G C25	230	4	250	140	3.000	N	15.000
LT01525	5420060401022	E27	Non-Directional	1	G C25	230	4	250	140	3.000	N	15.000

 **LED** * When we went to press, the lamps were in their final release stage. Therefore specifications may be slightly different.

NON-DIRECTIONAL LAMPS



ErP2 ready
Suitable for general lighting



- Instant start
- Warm white 3000K
- Energy class A++ with very low electricity consumption
- 20 to 30 years lifetime
- CRI 80



ART. CODE	EAN13	LAMP HOLDER	SPECIFICATION	N° LAMPS		V	LM	BEAM°	COLOR	DIMM.	HOURS
LT01912	5420060403040	G9	Non-Directional	1	C13 M	230	150	-	3.000	N	30.000
LT02909	5420060403033	G4	Non-Directional	1	C10 I	12	91	-	3.000	N	20.000



LED

* When we went to press, the lamps were in their final release stage. Therefore specifications may be slightly different.

RGB LIGHT



RGB



REMOTE CONTROLLED RANGE

- Auto color changing
- Manual color setting mode
- Integrated dimming function

LT01299 A60/E27 RGB

LT01199 GU10 RGB



SWITCH OPERATED RANGE

- Auto color changing
- Single color available
- Easy operation via lamp switch

LT01499 G E14 RGB

LT01599 G E27 RGB

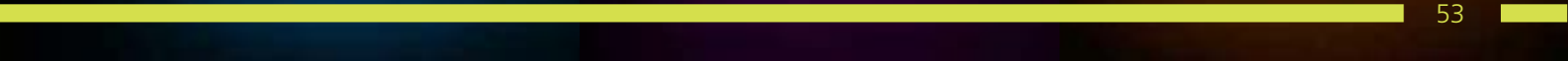
- Instant start
- Color changing
- Energy class B with very low electricity consumption
- 20 years lifetime

ART. CODE	EAN13	LAMP HOLDER	SPECIFICATION	N° LAMPS		V	W	LM	BEAM°	COLOR	DIMM.	HOURS
LT01199	5420060401442	GU10	RGB	1		230	3,5	-	60	-	N	20.000
LT01299	5420060401459	E27	RGB	1		230	2,8	-	140	-	N	20.000
LT01499	5420060401466	E14	RGB	1		230	1,5	-	140	-	N	20.000
LT01599	5420060401473	E27	RGB	1		230	1,5	-	140	-	N	20.000



LED

* When we went to press, the lamps were in their final release stage. Therefore specifications may be slightly different.



ATTRACTIVE PACKAGING

FRONT



- Lamp is fully visible
- Lamp holder information
- Light output information

BACK

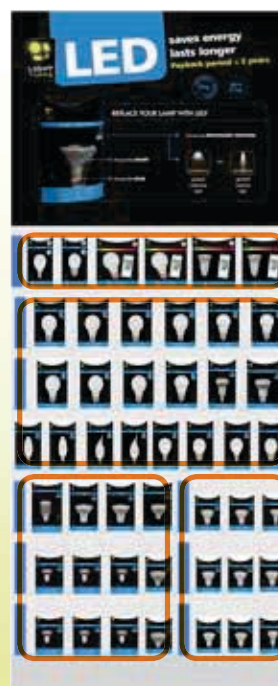


- Technical and legal information

THERE'S A FACING SOLUTION FOR EACH QUESTION, TYPE OF SHOP OR CHANNEL

1 meter FOOD channel:

RGB



SPOT BEAM
GU10 / GU5.3
340lm
250lm
150lm

NON-DIRECTIONNELLE
A60 – 806 / 470 lm
A60 - 250lm
C/CE/G - 250lm

WIDE BEAM
GU10 / GU5.3
340lm
200lm
90lm

SHOP SOLUTIONS

SMART RETAIL CONCEPT



Call for action

Explication how to read the packaging and select the right lamp

SMART PROMOTION DISPLAYS

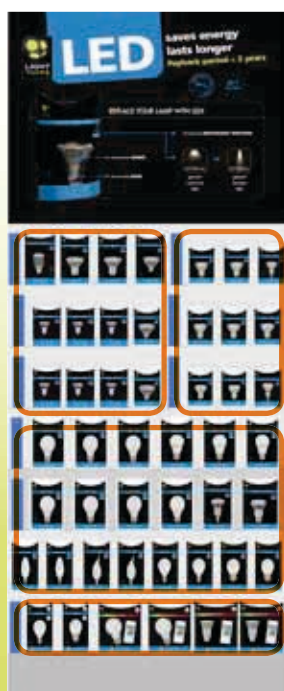


DI00030
Promotion display
172x60x40cm



LT09213
GU10 150lm
Display
120x40x40cm

1 meter DIY channel:



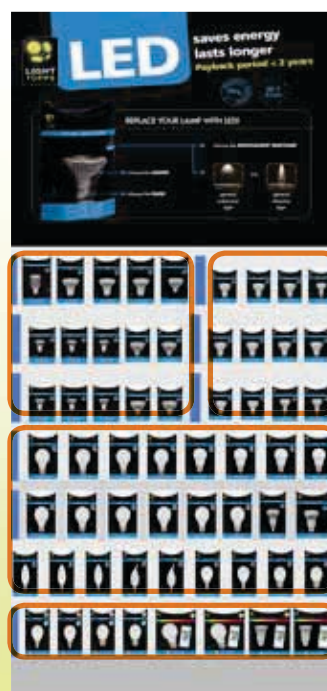
SPOT BEAM
GU10 / GU5.3
340lm
250lm
150lm

WIDE BEAM
GU10 / GU5.3
340lm
200lm
90lm

NON-DIRECTIONNELLE
A60 – 806 / 470 lm
A60 - 250lm
C/CE/G - 250lm

RGB

1,25 meter DIY channel:

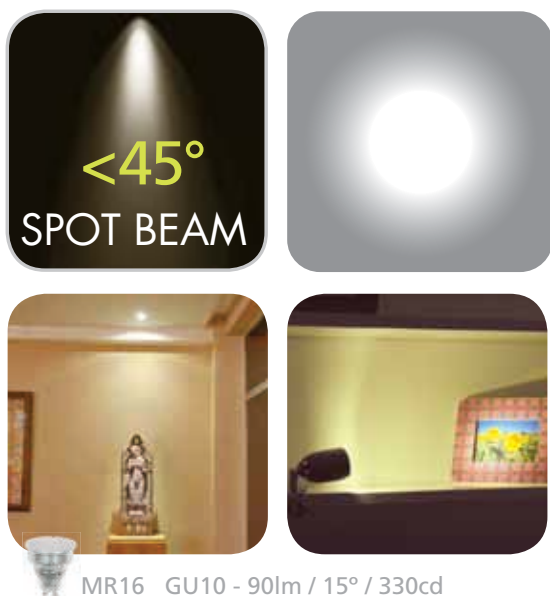


BEAM ANGLE

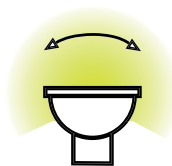
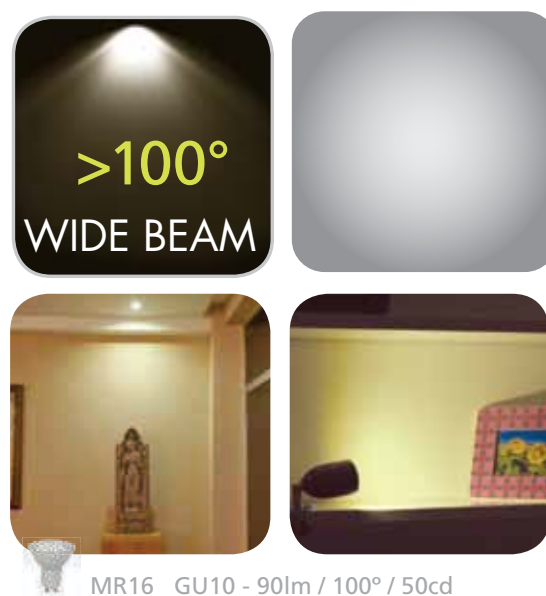


The beam angle of a directional light source is an indicator of the width of the light beam. The greater the beam angle width, the lower the light intensity on the object. According to the beam angle, directional light sources are usually classified in 4 categories: spot (<30°), flood (30°-45°), wide flood (45°-60°), very wide flood (>60°). Most halogen reflector lamps (MR16 GU10, MR16 GU5.3...etc.,) fall within the spot and flood light beam angle category (beam angle below 45°). Light sources with beam angles above 100° cannot be considered as directional lamps and therefore cannot be used as retrofit of halogen lamps in the majority of installations, as shown on pictures below.

SPOT BEAM ideal for object highlight

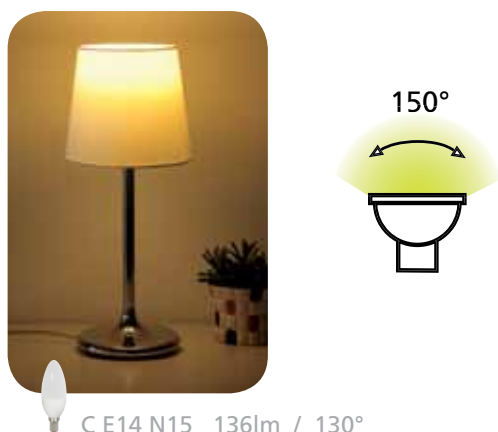


WIDE BEAM suitable for general illumination only



The beam angle of a traditional incandescent light source is around 300°, which offers a very wide light distribution all around the lamp. Most of the classical non-directional LED light sources only have a beam angle around 120° - 150°, because LED emits light in one direction. Therefore, special optical design is needed for LED lamps to replicate omni-directional light distribution of an incandescent lamp.

Classical non-directional LED lighting



Omni-directional lighting



ErP & ENERGY LABELING DIRECTIVES



The EU regulation No 1194/2012 of 12 December 2012, implementing Directive 2009/125/EC, defines the ecodesign requirements for directional lamps, lighting emitting diode lamps and related equipment.

The EU regulation No 874/2012 of 12 July 2012, supplementing Directive 2010/30/EU, with regard to energy labelling of electrical lamps and luminaires.

1. ErP Energy Efficiency requirements for LED lamps

- The EEI (Energy Efficiency Index) is the index indicating the energy consumption for a given useful luminous flux. The lower the EEI is, the more efficient the lamp is.

APPLICATION STAGE	IMPLEMENTATION DATE	EEI (Energy Efficiency Index) REQUIREMENT
Stage 1	Sept-1, 2013	≤ 0.5
Stage 2	Sept-1, 2014	≤ 0.5
Stage 3	Sept-1, 2016	≤ 0.2

- The energy efficiency class of lamps shall be determined on the basis of their EEI (Energy Efficiency Index) as set out in following table.

	ENERGY EFFICIENCY CLASS	EEI (Energy efficiency index) for non-directional lamps	EEI (Energy efficiency index) for directional lamps
	A++ (most efficient)	$EEI \leq 0,11$	$EEI \leq 0,13$
	A+	$0,11 < EEI \leq 0,17$	$0,13 < EEI \leq 0,18$
	A	$0,17 < EEI \leq 0,24$	$0,18 < EEI \leq 0,40$
	B	$0,24 < EEI \leq 0,60$	$0,40 < EEI \leq 0,95$
	C	$0,60 < EEI \leq 0,80$	$0,95 < EEI \leq 1,20$
	D	$0,80 < EEI \leq 0,95$	$1,20 < EEI \leq 1,75$
	E (least efficient)	$EEI > 0,95$	$EEI > 1,75$

ErP & ENERGY LABELING DIRECTIVES

2. Directional lamps: Equivalence with filament lamps

TYPE OF LAMP	EQUIVALENT FILAMENT LAMP POWER	MINIMUM REQUIRED LUMINOUS FLUX TO CLAIM EQUIVALENCE	
		Reference flux in 90°(lm)*	Initial light flux in 90°(lm) based on LLMF 70° **
GU10	20W Halogen	90lm	104lm
	25W Halogen	125lm	144lm
	35W Halogen	200lm	230lm
	50W Halogen	300lm	345lm
GU5.32	20W Halogen	180lm	207lm
	35W Halogen	300lm	345lm
	50W Halogen	540lm	621lm
R50	25W Halogen	90lm	104lm
	40W Halogen	170lm	196lm
R63	40W Halogen	180lm	207lm
	80W Halogen	300lm	345lm

* The equivalence claim involving the power of a replaced directional lamp may be displayed only if the luminous flux of the lamp in 90° cone (useful luminous flux) is not lower than the corresponding reference luminous flux in this table multiplied by the maintenance correction factor based on LLMF. If the lamp's beam angle is: $\leq 90^\circ$, the useful luminous flux is to be measured in a 120° cone, and a warning that the lamp is not suitable for accent lighting must be indicated on the product packaging. // ** LLMF is the lumen maintenance factor at the end of the nominal life. The luminous flux multiplication factor for LED lamp is $1 + 0.5 \times (1 - \text{LLMF})$. The initial light flux in this table is based on $\text{LLMF} = 70\%$.

3. Non-directional lamps: Equivalence with incandescent lamps

EQUIVALENT INCANDESCENT LAMP POWER	MINIMUM REQUIRED LUMINOUS FLUX TO CLAIM EQUIVALENCE		
	HALOGEN	LED	CFL
15W	119 lm	136 lm	125 lm
25W	217 lm	249 lm	229 lm
40W	410 lm	470 lm	432 lm
60W	702 lm	806 lm	741 lm
75W	920 lm	1055 lm	970 lm
100W	1326 lm	1521 lm	1398 lm

ErP & ENERGY LABELING DIRECTIVES

4. ErP compulsory product information to be displayed on packaging



340lm

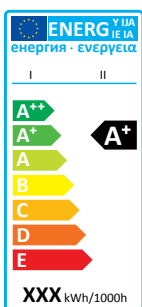
Nominal useful luminous flux displayed in a font at least twice as large as any display of the nominal lamp power

**100°
WIDE BEAM**

Nominal beam angle in degrees for directional lamps. Warning that the lamp is not suitable for accent lighting if the lamp's beam angle is $\geq 90^\circ$

≈ 40W

If the lamp equivalence to halogen or incandescent lamp is claimed, it should be based on table 2 and table 3.



Energy label as per new regulation (see table P57 for energy class table)

**50mm
54mm**

Lamp dimension in mm. If the lamp is exceeding IEC outline, a drawing comparing the lamp's dimension to the replaced lamp must be printed on the product packaging



Energy saving can only be written if the lamp complies with requirement of stage 1 applicable to non-clear lamps (For directional lamps, $EEL \leq 0.5$)

Home Comfort Light: 3000K



Color temperature

95% < 1s

Warm-up time to 95% of full light output (instant full light can be written if < 1 sec.)

Not Dimmable

Warning if non dimmable or dimmable on specific dimmers only

≥ 20.000

Number of switching cycles

15.000h

Nominal life time of the lamp in hours

4.2 Watt

Nominal lamp power

**+40°
-10°**

If the lamp is designed for use in non-standard condition (ie. -1°)

Hg > 5mg

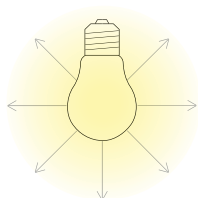
Lamp mercury content in mg if the lamp contains mercury

www.TLT-international.eu

Website onto which instructions on how to clean up the lamp debris in case of breakage are available (if the lamp contains mercury)

LIGHTING GUIDE

● LIGHT FLUX



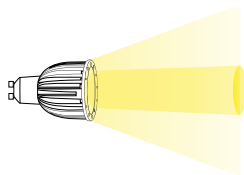
Unit: Lumen (lm)

Definition: Total light output of a source emitted in all directions

Usage: Relevant for non-directional lighting, it is the unit used to calculate equivalence to incandescence and classify source in energy label directive. It is the only unit that can be used alone to compare light sources

Measurement: The source is placed at the center of an integrated sphere where a photometric sensor will make the sum of the light emitted in all directions against the inner surface

● LIGHT INTENSITY



Unit: Candela (cd)

Definition: Luminous flux emitted in a given direction. It represents the brightest spot at the center of a focused beam. It also matches the lux at 1m defined in chapter 3

Usage: Relevant for directional lighting but to be used in correlation with beam angle only

Measurement: The source placed in a goniophotometer will rotate at 180° with several sensors measuring the intensity of light at various angles. The maximum value is then communicated

● ILLUMINANCE



Lux	Ø	Dist.
2400lx.	27cm	0.5m
600lx.	53cm	1m
266lx.	80cm	1.5m
150lx.	106cm	2m

Unit: Lux (lx)

Definition: Luminous flux density falling on a surface

Usage: Relevant for light architect to determine how many light sources are necessary in a room to reach their lux target. For example, in European offices, the standard defines that the working surface area (desk) should have an average illuminance above 500 lux

Measurement: Measurements are made using a goniophotometer like for light intensity but the source will not rotate. The results are displayed in a photometric curve giving the diameter of the lighted area at each distance with the corresponding illuminance. Such curve is shown on every TLT catalog reflector page

● BEAM ANGLE



<45°

SPOTBEAM

SPOT



>100°

WIDEBEAM

VERY WIDE FLOOD

Unit: Degree (°)

Definition: Angle of the emitting light from the source

Usage: Relevant to select the source based on the needs. Spot beam angle for accent lighting, and Very Wide Flood for main lighting

Measurement: Angle within which the light intensity is above 50% of the maximum. Measured in the goniophotometer

LIGHTING GUIDE

CORRELATED COLOR TEMPERATURE (CCT)



Unit: Degree Kelvin (K)

Definition: Color appearance of the light

Usage: Relevant to select light source for different usage. For home and hospitality, warm white is preferred. Therefore TLT has defined 3000K for LED and 2700K for CFL. Below 3000K, the color temperature of LED cannot be well controlled

Measurement: The integrated sphere will analyze the emitted wave length to determine the color temperature

COLOR RENDERING INDEX (CRI)



Unit: Color Rendering Index (CRI or Ra)

Definition: Ability of a light source to accurately reproduce colors

Usage: A CRI can be specified according to the final use of the source. For general and accent lighting a CRI > 70-80 is sufficient. But where color rendering is critical such as food stores, a CRI > 90 will be recommended. TLT LED range has a CRI > 70, CFL range has a CRI > 80 and Halogen has a CRI > 95

Measurement: The integrated sphere will analyze the chromatic effects of the light source over a scale of 8 colors and compare it with the reference illumination. The maximum CRI for a perfect match is 100 such as for incandescent lamps.

LIFETIME



There are 2 ways to calculate lifetime depending on the technology but all are based on a batch of 20 pcs aging at ambient temperature and calculated in hours

50% survival rate for CFL & Halogen

Conventional source lifetime is calculated on the time after which less than 50% of sample survives. The lifetime will correspond to time at which the 10th sample dies

70% lumen maintenance for LED

Also called L70 standard, the LED lifetime is calculated based on the time after which the source emits less than 70% of initial flux. It means the source could still be working but we consider that it does not fulfill its lighting requirement anymore and it should be replaced

POWER

250lm



LED 4W



Incand. 25W

Unit: Watt (W)

Definition: Amount of electrical energy dissipated in a device to produce other type of energy such as light or heat. One watt is the power produced by a current of one ampere acting across a potential difference of one volt.

Usage: Expression of the energy consumption of a lamp or lighting fixture. It has been wrongly used to indicate brightness of an incandescent light source at a time all light sources had similar efficacy. Today, with energy efficient light sources such as LED, power is the denominator used to measure efficacy of a device expressed in lumens per watt. The higher the lumens per watt ratio, the higher the efficacy of a light source. For example, in order to emit a luminous flux of 250lm, a traditional incandescent lamp needs to consume 25W while a LED lamp only needs 4W to produce the exact same light output.

NOTES



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