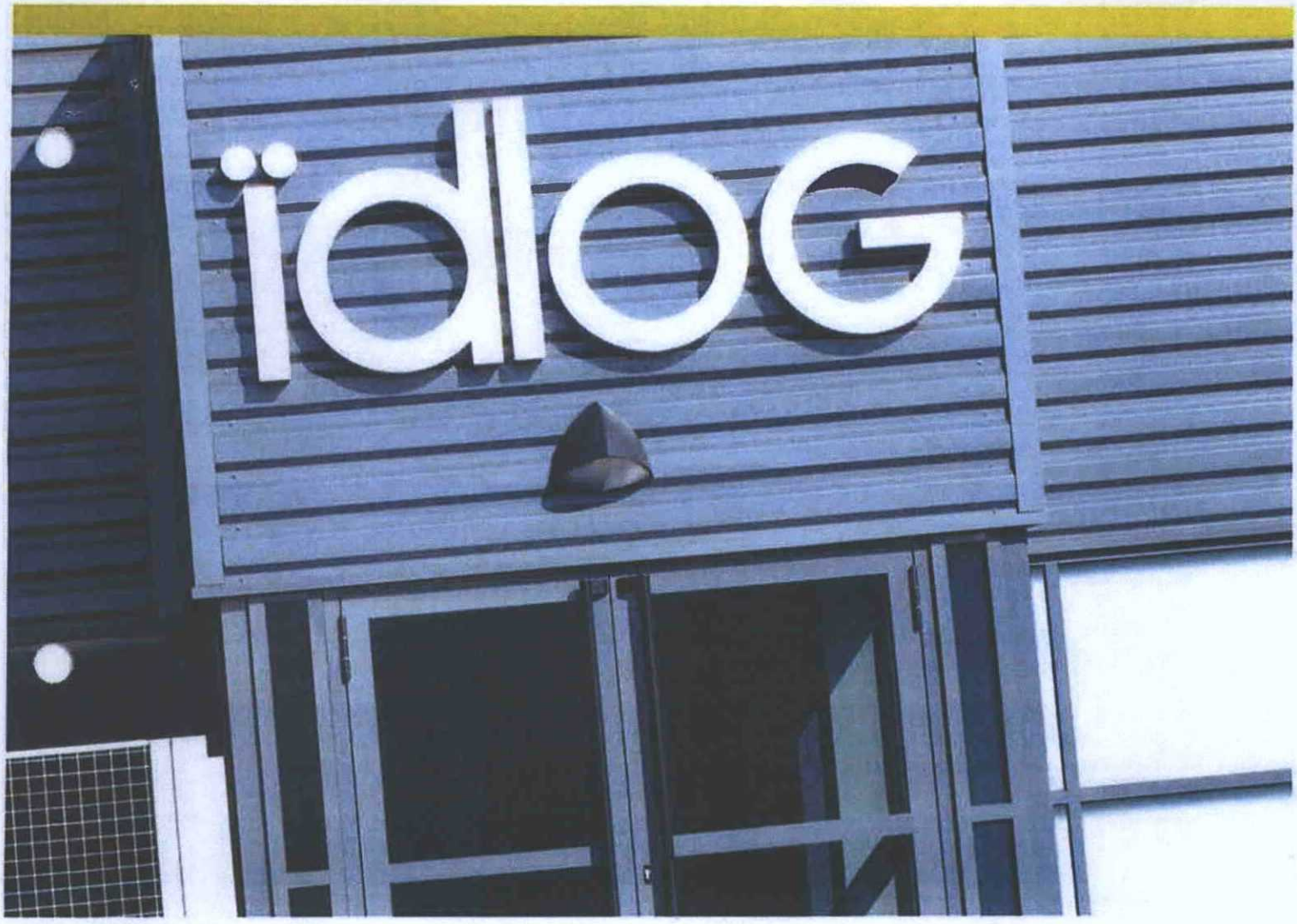


LEDbar



The LEDbar substitutes the conventional Realta lamp source with an 18W LED lamp package. The aluminium bar dissipates the heat generated by the LEDs for optimum performance.

ACCESSORIES



Single luminaire pole mounting attachment



Twin luminaire pole mounting attachment

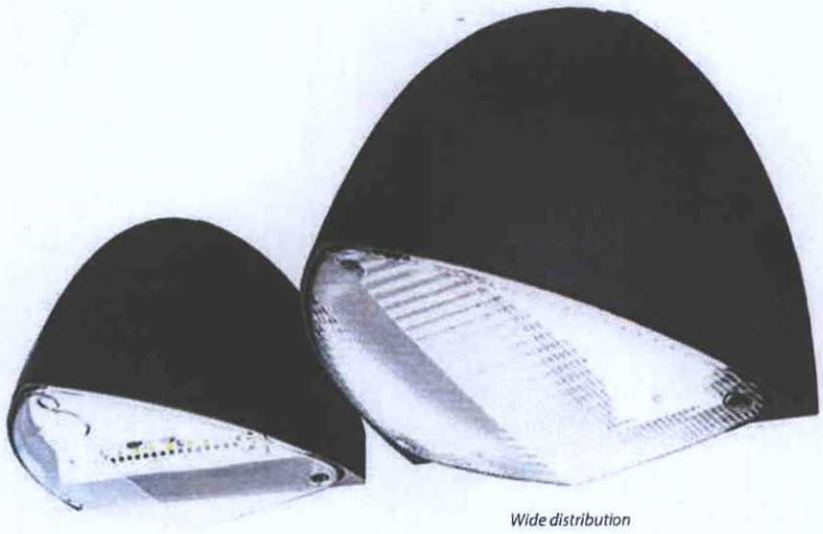
DESCRIPTION	CAT. No.	APPROX. kg
Single luminaire pole mounting attachment *(for 60m dia. poles)*	**RL 13759**	1.6
Twin luminaire pole mounting attachment *(for 60m dia. poles)*	**RL 14175**	2.6
76/60mm dia. spigot adaptor *(for retro-fit on 76mm dia. columns)*	**GLB 11184**	0.8

ADUR & WORTHING
PLANNING SERVICES
PLAN AWDM/ 0494/14
DATE VALID 30 JUN 2015

IP66 IK10++ / IK10 / IK06 CE TC-T LED

SPECIFICATION

- Graphite full polyester powder finish. Silver option
- Strong die-cast LM2 aluminium body
- High efficiency prismatic polycarbonate or borosilicate glass front refractor
- LED versions with excellent performance
- Wide distribution (18W LED & 42W TC-T) or area distribution (32W LED) options
- Highly specular, multi-faceted injection moulded vacuum metallised reflector
- Excellent distribution with less than 2% upward light component
- Optional photocell control
- TC-T versions with high frequency tri-lamp ballast enables retro-fit of 26 and 32W lamps
- Conventionally switched and Smart External versions
- Fitted with 4000K lamp(s) or 5000K LEDs (18W) and 5700K LEDs (32W)



Wide distribution

Area distribution

Realta Design Registration Number 3024955

18W LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	5000	60K	P	>85	R	>0.95	Poly - 61.9 Glass - 52.4

32W LED CHARACTERISTICS

Ra	°K	L70/B10	P/U	%	R/Rx	PF	LL/CW
65	5700	60K	P	>88	R	>0.95	73.0

For LED characteristics explanation see www.thorlux.com/led-characteristics

RANGE

	LAMP	WIDE DISTRIBUTION	AREA DISTRIBUTION	APPROX. kg
SMART EXTERNAL	**IK10 Polycarbonate Cover**			
	18W LED	**RL 14437D**		3.9
	32W LED		**RL 15850D**	4.0
STANDARD	**IK10++ Polycarbonate Cover**			
	18W LED	**RL 14436L**		3.8
	32W LED ✱		**RL 15849L** ✱	3.9
	42W TC-T	**RL 13535J**		3.6
	IK06 Glass Cover			
	18W LED	**RL 14438L**		4.6
	42W TC-T	**RL 13528J**		4.5

OPTIONS

DESCRIPTION	SUFFIX	EXAMPLE
Photocell *(standard versions only)*	**PC**	**RL 14436LPC**
Tamper resistant screws ♦	**T**	**RL 14436T**

♦ To fasten tamper resistant screws order special screwdriver **KEY 10008**

CIRCUIT TYPE - J - non-dimming (HF fluorescent) / L - non-dimming (LED)

Smart External versions use digital dimming gear and are always suffixed **D**

SILVER OPTION - add suffix **SV3** e.g. **RL 14437DSV3** etc.

EMERGENCY VERSION - prefix catalogue number with:
ERL - Emergency / TRL - AutoTest / DRL - Scanlight AT e.g. **ERL 15850D** etc.
Emergency, AutoTest and Scanlight AT versions add 0.4kg to weights listed

Lamp version emergency operation is provided by a sustained emergency lamp (fitted) - 5W TC-S

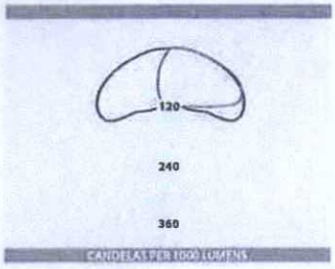
42W TC-T versions use electronic control gear

Web Link: Smart External System

PHOTOMETRIC GUIDE

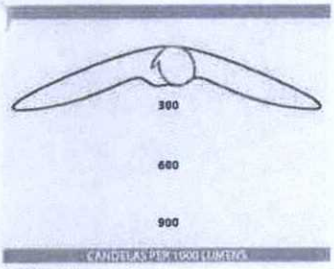
POLYCARBONATE COVER - 42W TC-T (Wide Distribution)

D.L.O.R. 55% U.L.O.R. 2%



POLYCARBONATE COVER - 18W LED (Wide Distribution)

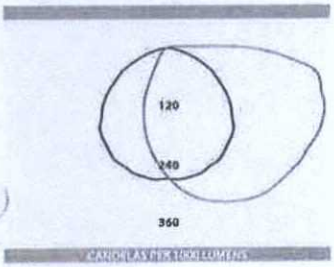
D.L.O.R. 98% U.L.O.R. 2%



Luminaire Lumen Output
18W = 1430lm

POLYCARBONATE COVER - 32W LED (Area Distribution)

D.L.O.R. 98% U.L.O.R. 2%



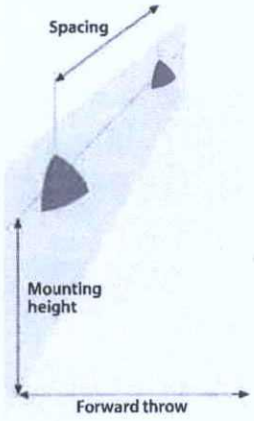
Luminaire Lumen Output
32W = 2700lm

PERFORMANCE GUIDE - Wide Distribution

Photometric Performance -
18W LED with polycarbonate cover

SPACING	AVERAGE ILLUMINANCE	UNIFORMITY (min/av)
3m mounting height - 3m forward throw		
10m ctrs	18 lux	0.53
15m ctrs	12 lux	0.49
20m ctrs	10 lux	0.35
4m mounting height - 4m forward throw		
10m ctrs	15 lux	0.64
15m ctrs	9 lux	0.55
20m ctrs	7 lux	0.49
5m mounting height - 5m forward throw		
10m ctrs	10 lux	0.56
15m ctrs	7 lux	0.49
20m ctrs	5 lux	0.55

FIGURES ARE BASED ON INITIAL LUMENS



e.g. At 3m mounting height and 10m centres: 18 lux average horizontal illuminance at ground level

ENERGY SAVINGS COMPARISON - Installation of 25 luminaires

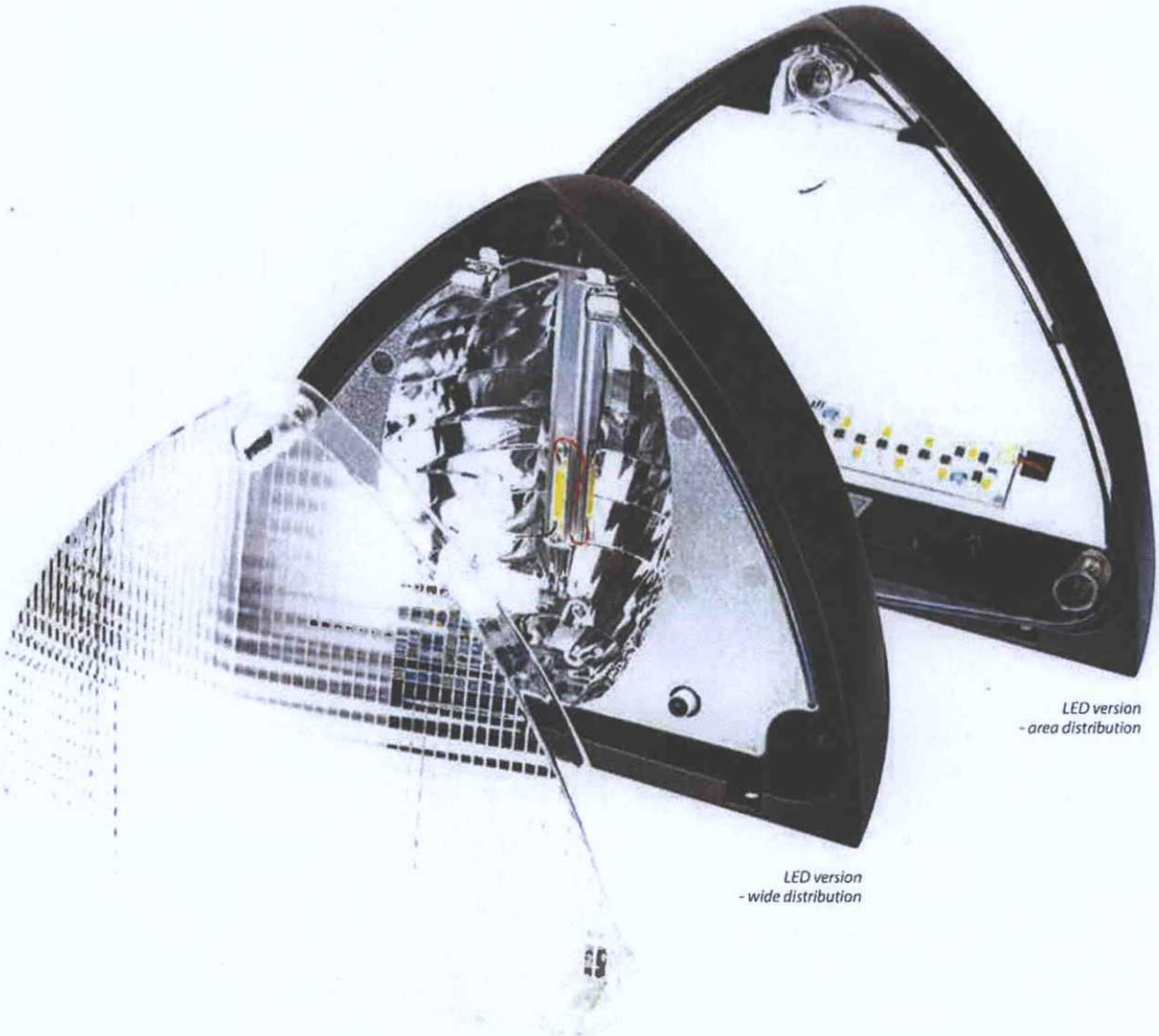
	42W CFL	18W LED SMART	SAVING
Circuit (W)	47	24	23
Burn hours per annum	4,380	1,095 ▲	3,285
Annual kWh	5,147	1,314	3,833
CO_2 (kg)	2,728	696	2,032
Cost ■	£617.58	£78.84	£538.74

▲ On-time reduced due to Smart presence detection
■ Based on 12p/kWh

25 YEAR LIFE COSTING ANALYSIS - Installation of 25 luminaires

	42W CFL	18W LED SMART	SAVING
Number of lamps replaced	125	0	125
Total cost of relamping ▲	£17,913	£0	£17,913
Power usage for site (kWh)	128,663	32,850	95,813
Electricity cost ▲■	£25,719	£3,283	£22,436
CO_2 (kg)	68,430	17,560	50,970
Number of trees required to absorb CO_2 produced	69	18	51

▲ Based on inflation rate of 4% each year (includes travelling, access equipment, re-lamping and labour for 2 maintenance engineers)
■ Based on 12p/kWh



LED version
- area distribution

LED version
- wide distribution

DIMENSIONS

