

COMMERCIAL LIGHTING

SPACE PLUG & PLAY LED LIGHT PANELS



Utilising the latest SMD LED technology this latest generation of edge lit LED panels provide solutions for applications in installations where non-dimming, daylight dimming or functional dimming are required.

Available in DALI, 1-10v & Emergency (See full order code table)				
Codes:	RSP03050xx	RSP04050xx	RSP03030xx	RSP04030xx
Comparable to T8 (W):	4 x 18	4 x 18	4 x 18	4 x 18
Light Output L₁₀₀ (lm):	3150	4000	2550	3200
Lux @ 1m (lx):	680	800	600	700
Beam Angle (°):	110	110	110	110
Colour Temp L₁₀₀ (k):	5,000	5,000	3,000	3,000
CRI L₁₀₀ (Ra):	>80	>80	>80	>80
Power (W):	30	40	30	40
Efficacy (lm/cctW):	105	100	85	80
Power factor:	0.97	0.97	0.97	0.97
Ambient Operating Temp (°C):	-20<Ta<+40			
Life L₇₀F₁₀ (hrs):	50,000			
Dimensions (mm):	595 x 595 x 9			
Ingress Protection (IP):	20			
Box Qty:	1			
Weight (Kg):	4			
Warranty (yrs):	5			

They replace the standard T8 and T5 lay-in modulars to provide energy efficient, but perhaps more importantly, low maintenance solutions where constant replacement of fluorescent tubes and cleaning of the fitting can be avoided. They will help enable the building to achieve a low carbon footprint and comply with current and foreseeable building regulations efficacy requirements, producing up to 105 luminaire lumens per circuit watt. Applications include:

- Offices
- Health Centres
- Shops
- Hotels
- Schools
- Kitchens
- Hospitals
- Restaurants
- Reception areas
- Universities
- Toilets
- Inspection areas

FEATURES	BENEFITS
<ul style="list-style-type: none"> Clean & stylish lines with aluminium trim and fire retardant Polycarbonate diffuser 	<ul style="list-style-type: none"> Looks attractive, is easy to clean and less likely to harbour germs or dirt Reduces discomfort eye glare Suitable for use as emergency lighting
<ul style="list-style-type: none"> Dimensions of 595mm x 595mm x 9mm 	<ul style="list-style-type: none"> Fits into standard 15mm & 24mm T bar ceiling grids Slim profile enables fast and simple installation compared to bulky lay-in modules particularly where other services run in the ceiling void
<ul style="list-style-type: none"> Available in 30W & 40W versions with either 3,000K or 5,000K colour temperature and CRI >80 	<ul style="list-style-type: none"> Provides up to 50% energy savings compared to fluorescent Optimum light levels and uniformity can be achieved for the room dimensions Warm & subtle or cooler task/work light colour depending on use of the area Complies with CRI requirements of EN12464 for office lighting
<ul style="list-style-type: none"> Standard, emergency, SwitchDim, DALI and 1-10v dimmable versions available 	<ul style="list-style-type: none"> Solutions for all control requirements available including daylight harvesting, functional dimming for meeting rooms and integral emergency operation
<ul style="list-style-type: none"> All driver options are plug and play to Panels and mains supply 	<ul style="list-style-type: none"> Ideal for 1st fix wiring so inspection and testing of wiring installation catered for No damage to panels as they can be quickly plugged in on completion Addition of, or change of position of Emergency functionality can easily be accommodated within the installation
<ul style="list-style-type: none"> Only high quality SMD LED's with certified LM80 LED data are used in the luminaire design which ensures the principles of good thermal management and optimum drive current and stability are used 	<ul style="list-style-type: none"> This provides: <ul style="list-style-type: none"> Exceptional light output package with a 1 for 1 replacement for fluorescent Low lumen depreciation Long LED rated life for low maintenance costs Low power consumption with high efficacy to comply with EU & UK requirements
<ul style="list-style-type: none"> Solid state technology 	<ul style="list-style-type: none"> Rugged – No heat filaments or electrodes to prematurely fail through vibration or hot to cold temperature changes provides maintenance cost saving Can be used in conjunction with presence detectors to provide "instant on" or off for additional energy savings Short time switching is not detrimental to LED life as it is with traditional light sources
<ul style="list-style-type: none"> Optional suspension and surface mounting kits 	<ul style="list-style-type: none"> Provides alternative mounting options for solid or sloping ceilings
<ul style="list-style-type: none"> Cool light output without Infra Red & UV 	<ul style="list-style-type: none"> A safe light source providing a pleasant work environment with less cooling required and will not fade or damage sensitive objects

PLEASE NOTE – INFORMATION CONTAINED IN THIS DOCUMENT MAY BE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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Order Codes

CODES	DESCRIPTION
RSP030506060-23	SPACE 30W LED PANEL, 60X60, 5000K, SILVER WITH 30W STD DRIVER
RSP040506060-23	SPACE 40W LED PANEL, 60X60, 5000K, SILVER WITH 40W STD DRIVER
RSP030306060-23	SPACE 30W LED PANEL, 60X60, 3000K, SILVER WITH 30W STD DRIVER
RSP040306060-23	SPACE 40W LED PANEL, 60X60, 3000K, SILVER WITH 40W STD DRIVER
RSP030506060DD-23	SPACE 30W LED PANEL, 60X60, 5000K, SILVER WITH 30W DALI DRIVER
RSP040506060DD-23	SPACE 40W LED PANEL, 60X60, 5000K, SILVER WITH 40W DALI DRIVER
RSP030506060DA-23	SPACE 30W LED PANEL, 60X60, 5000K, SILVER WITH 30W 1-10v DRIVER
RSP040506060DA-23	SPACE 40W LED PANEL, 60X60, 5000K, SILVER WITH 40W 1-10v DRIVER
RSP030506060E-23	SPACE 30W LED PANEL, 60X60, 5000K, SILVER WITH 30W STD DRIVER + EMERGENCY
RSP040506060E-23	SPACE 40W LED PANEL, 60X60, 5000K, SILVER WITH 40W STD DRIVER + EMERGENCY
RSP030506060DDE-23	SPACE 30W LED PANEL, 60X60, 5000K, SILVER WITH 30W DALI DRIVER + EMERGENCY
RSP040506060DDE-23	SPACE 40W LED PANEL, 60X60, 5000K, SILVER WITH 40W DALI DRIVER + EMERGENCY
RSP030506060DAE-23	SPACE 30W LED PANEL, 60X60, 5000K, SILVER WITH 30W 1-10v DRIVER + EMERGENCY
RSP040506060DAE-23	SPACE 40W LED PANEL, 60X60, 5000K, SILVER WITH 40W 1-10v DRIVER + EMERGENCY

Typical Energy Saving & Payback

Huge energy and maintenance cost savings can be achieved such that realistic paybacks of between 12months and 18months can easily be achieved.

ROBUS®

QUALITY PRODUCTS BY LED GROUP

Compare Current or Traditional Light Source With An Energy Saving Alternative

Project title: T8 fluorescent v Robus Space LED panel

ENERGY SAVING LIGHTING ENERGY SAVING CALCULATOR

Enter your data here:	Current	Energy Saving Alternative
Difference in cost of fittings:	£ 50.00	
Fitting quantity/year:	1	5
Average lamp/tube life hours:	10000	50000
Average ballast life:	25000	50000
Fitting Watts including gear @ full power:	80	30
Fitting Watts including gear @ standby power:		30
Cost of replacement lamp(s):	£ 12.00	0.00
Cost of replacement ballast:	£ 25.00	0.00
Cost of labour to replace lamp(s):	£ 10.00	0.00
Cost of labour to replace ballast:	£ 30.00	0.00
PO sum for annual cost of cleaning fitting:	£ 0.00	0.00
Electricity cost per kWh in PENGE:	10	
Total no. of fitting/lamps to compare:	1	
Burning hrs per day @ full power:	14.00	14.00
Burning hrs per day @ standby power:		0.00
- days/yr:	5.00	5.00
- weeks/yr:	50.00	50.00
Total hrs/yr:	3500.00	3500.00

Results:	Current Fitting	Energy Saving Fitting
- Energy cost/yr:	£ 28.00	10.50
- Re-Lamp cost/yr inc. labour:	£ 7.70	0.00
- Ballast replacement cost/yr inc. labour:	£ 7.70	0.00
Cost of ownership fitting/yr:	£ 43.40	10.50
Savings per fitting per year:	£ 32.90	
Total Savings per year:	£ 32.90	
Total Energy Savings (kWh/yr per year):	175	

INSTALLATION PAYBACK PERIOD
ASSUMING A MODEST 5% INCREASE IN COSTS PER YEAR

Payback in Months: 17.94

COST OF OWNERSHIP AND SAVINGS PER YEAR FOR TOTAL NUMBER OF FITTINGS

Energy Saving Fitting Costs: £11 | Total Savings Per Year: £33

Current Fitting Costs: £43

Total Ownership Costs: £11 | Total Savings/Year: £33

CO2 SAVING 3 TONNE 8 YEAR based on 0.64412kg CO2/kWh

Cost per month of NOT implementing Energy Saving Solutions

£3