YOUR RESOURCE FOR SUCCESS

2016 LIGHTING CATALOGUE

YOUR RESOURCE FOR SUCCESS

Synergy

FOR OUR FULL RANGE OF PRODUCTS VISIT **WWW.SYNERGY.GB.NET**

YOUR RESOURCE FOR SUCCESS

Welcome to the 2016 Synergy Lighting Catalogue

Here at Synergy, we have been serving the electrical industry since 1985. Over the years, we have built up a wealth of resource in terms of knowledge, logistics, intelligence, technology and collateral.

It is our pleasure to share that resource with our clients to ensure that they succeed. Whether it's our innovative LED product range, or our insistence on reliable deliveries, we are passionate about exceeding customer expectations every time... truly your resource for success!

"…we like the level of your service and your reliability"
Mrs E – Accounts

Mission Statement

Deliver quality solutions to our customers providing what they need when they need it, supported by technical expertise and unbeatable customer service.

Vision Statement

A highly organised and efficiently run team that provides fulfilling employment and resource for the business owners, employees and the wider community.

Place an order today!
Call now **0845 381 0845**
Email **sales@synergy.gb.net**
Fax **0845 381 1000**
Visit **www.synergy.gb.net**

Unit 4, Charlton Mead Lane, Hoddesdon, Hertfordshire EN11 0DJ

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

WHY USE SYNERGY FOR YOUR LIGHTING PROJECTS?

We Understand Your Needs

In the team here at Synergy we have first hand on-site experience so we see the challenges you are facing – that's how we identify your requirements so well.

Increase Your Profit

We recognise that the lighting products on any project can be a significant part of the clients budget. It is therefore essential that they must be exceptional value for money to enable you to win the projects and manage them profitably. We strive towards this end so that we can help you save time and money on every installation.

Continuity Of Supply

We realise that once you've quoted your client, you'll need to be able to service that commitment when you get the order, maybe months later, so that's why we have a sustainable sourcing policy here at Synergy.

Insist On Quality

From our knowledge of the industry we know that a return visit to site, even for a small issue, costs you money and erodes your profit margin – quality really matters.

Design Support

We know that to support your tender and quotation submissions to your clients you will require evidence that your offering is the right one for them. We can help you on the lighting designs, lighting design files, specification sheets and images – we have confidence in our products and we can prove it!

Fast-Track Delivery Service

We're all aware that once the project starts there's no stopping, which is where our fast-track delivery service comes in. We make your deadlines our deadlines!

Exceeding customer expectations every time... truly your resource for success!

Synergy Your Resource for Success

For our complete product range visit **www.synergy.gb.net**

YOUR RESOURCE FOR SUCCESS

Ordering From Synergy

HOW TO ORDER
Here at Synergy we accept orders placed by phone, fax or email. To place an order call **0845 381 0845**, email **sales@synergy.gb.net** or fax to **0845 381 1000**.

NEXT DAY DELIVERY
All stock items for orders received before 3pm will be despatched for delivery the following day. Call us about other delivery options.

CREDIT ACCOUNT
To open a 30 day account email Synergy at **sales@synergy.gb.net**. We aim to process every credit account request within 24 hours.

CALL AND COLLECT SERVICE
If you wish to collect goods from our Hoddesdon collection point, simply place your order 30 minutes beforehand, and it is our aim to have your order picked, checked, packed and ready for you on your arrival.

Terms of Business

- We reserve the right to change details or product specification without prior notice.

- All products are subject to availability. Errors and omissions excepted.

- All goods and conditions of sale are subject to our 'standard conditions of sale', a copy of which is available upon request.

- Items returned for credit must be unused, in original packaging and returned carriage paid within 28 days of delivery. Return of specially ordered items is subject to manufacturer's acceptance.

"...I have heard good things about Synergy!"
Mr G - Electrician

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

2016 LIGHTING CATALOGUE

Contents

"... client and consultant very impressed overall!"
Mr L – Project manager

About Us Contents

7 Reasons to use Synergy's Expedite

EXPEDITE
PRE-WIRING SERVICE

INCREASE YOUR PROFIT
The most cost-effective way to wire leads to luminaires is in a factory controlled environment. That`s why we are able to offer significant savings and profit improvements with our EXPEDITE system.

SAVE TIME ON SITE
Once each luminaire is fully wired, checked, tested, packed and delivered to your site, all that remains is to unpack the luminaire, place into position and apply any site-specific fixings.

DE-SKILL THE INSTALLATION PROCESS
Often, this is a simple process that does not involve any wiring at all, and therefore the entire installation process is de-skilled.

INCREASE PRODUCTIVITY
This process involves a large workload shift from site to factory which in turn enables significant increase in site productivity.

REDUCE MANAGEMENT TIME
With much of the difficulty removed from the installation method, the next benefit is that less input is required by management staff to get the job done competently and quickly.

HEALTH AND SAFETY
And it`s not just the workload that shifts from site to factory; high level working is also reduced, meaning that installing luminaires is made even safer.

REDUCE RISK
Last but not least, due to the process occurring in a controlled environment, the bulk of the installation cost can be calculated accurately and built into project costings well in advance of site commencement. This means that risks associated with the cost of defective labour can be eliminated from this part of the installation process.
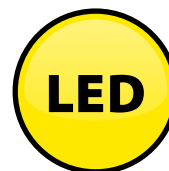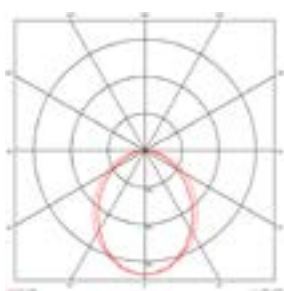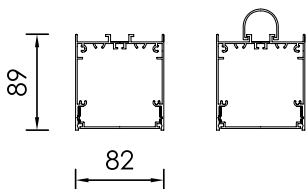
"The labour saving on the installation was considerable compared to previous installations wired on site, with zero connection problems on power-up"
Mr R - Lighting Project Manager

Contact us now for a project quotation on **0845 381 0845**

For our complete product range visit **www.synergy.gb.net**

Polaris 1

Suspended LED Luminaire

89

82

LED

IP40

CLASS I
MUST BE
EARTHED

Code	Length (mm)	Lumen Output (Lumen)	Output Colour	Colour Temp (⁰K)	Efficacy (Lumen/W)	LED Module Power (W)
P1.0.58M	580	1690	Cool white	4000	136	12.4
P1.0.86M	860	2530	Cool white	4000	136	18.6
P1.1.14M	1140	3380	Cool white	4000	136	24.8
P1.1.42M	1420	4220	Cool white	4000	136	31.0
P1.1.7M	1700	5070	Cool white	4000	136	37.2
P1.1.98M	1980	5910	Cool white	4000	136	43.4
P1.2.26M	2260	6760	Cool white	4000	136	49.6
P1.2.54M	2540	7600	Cool white	4000	136	55.8
P1.2.82M	2820	8450	Cool white	4000	136	62.0
P1.3.1M	3100	9290	Cool white	4000	136	68.2
P1.3.38M	3380	10140	Cool white	4000	136	74.4
P1.3.66M	3660	10980	Cool white	4000	136	80.6
P1.3.94M	3940	11830	Cool white	4000	136	86.8
P1.4.22M	4220	12670	Cool white	4000	136	93.0
P1.4.5M	4500	13520	Cool white	4000	136	99.2

Code	Description
P.1.1.25m SuspKit	1.25m suspension point
P.1.End Cap	End cap
P.1.Straight Connector	Straight connector
P.1.90 Intersection	90 Deg. intersection
P.1.T Intersection	T intersection
P.1.Bespoke Intersection	Bespoke intersection

Code	Description
/EM	Emergency version
/DALI	DALI dimmable version
/EZ	DALI Em Pro Self-test emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature
/UL	Downlight/Uplight version

- Can be surface mounted or suspended
- Infinite length combinations/can be joined using a variety of connections
- Choice of standard finishes - Anodised Aluminium/White RAL 9016/Black RAL 9005
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards
- Suspended version supplied as standard with adjustable 1.25m suspension cable

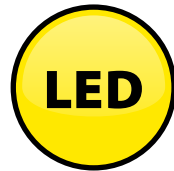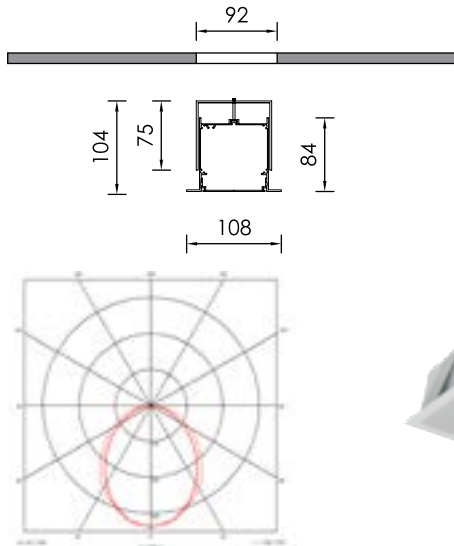**EXCEEDS PART L2 60 LM/W REQUIREMENT**

CE

ECA ETL COMPLIANT

Lighting Linear

LINEAR

PROJECT FOCUS

Restaurant
Luminaire: Polaris 1 Suspended

For our complete product range visit **www.synergy.gb.net**

Polaris 3

Recessed Luminaire

92

104 75 84

108

LED

IP40	CLASS I MUST BE EARTHED	CUT OUT 92MM	VOID DEPTH 104MM

Code	Length (mm)	Lumen Output (Lumen)	Output Colour	Colour Temp (ºK)	Efficacy (Lumen/W)	LED Module Power (W)
P3.0.58M	580	1690	Cool white	4000	136	12.4
P3.0.86M	860	2530	Cool white	4000	136	18.6
P3.1.14M	1140	3380	Cool white	4000	136	24.8
P3.1.42M	1420	4220	Cool white	4000	136	31.0
P3.1.7M	1700	5070	Cool white	4000	136	37.2
P3.1.98M	1980	5910	Cool white	4000	136	43.4
P3.2.26M	2260	6760	Cool white	4000	136	49.6
P3.2.54M	2540	7600	Cool white	4000	136	55.8
P3.2.82M	2820	8450	Cool white	4000	136	62.0
P3.3.1M	3100	9290	Cool white	4000	136	68.2
P3.3.38M	3380	10140	Cool white	4000	136	74.4
P3.3.66M	3660	10980	Cool white	4000	136	80.6
P3.3.94M	3940	11830	Cool white	4000	136	86.8
P3.4.22M	4220	12670	Cool white	4000	136	93.0
P3.4.5M	4500	13520	Cool white	4000	136	99.2

Code	Description
P.3.90 Intersection	90 Deg. intersection
P.3.Bespoke Intersection	Bespoke intersection
P.3.Straight Connector	Straight connector
P.3.End Cap	End cap
P.3.T Intersection	T intersection

Code	Description
/EM	Emergency version
/DALI	DALI dimmable version
/EZ	DALI Em Pro Self-test emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

- Infinite length combinations/can be joined using a variety of connections
- Choice of standard finishes - Anodised Aluminium/ White RAL 9016/Black RAL 9005
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards

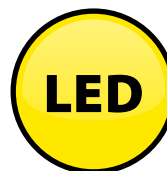EXCEEDS PART L2 **60 LM/W** REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting Linear

LINEAR

PROJECT FOCUS

Corporate Offices
Luminaire: Polaris 3 Recessed

For our complete product range visit **www.synergy.gb.net**

Polaris 3T

Recessed Trimless Luminaire

85

88

84

LED
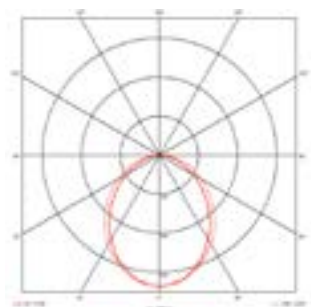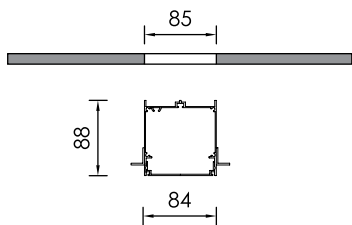
| IP40 | CLASS I MUST BE EARTHED | CUT OUT 90MM | VOID DEPTH 130MM |

Code	Length (mm)	Lumen Output (Lumen)	Output Colour	Colour Temp (ºK)	Efficacy (Lumen/W)	LED Module Power (W)
P3T.0.58M	580	1690	Cool white	4000	136	12.4
P3T.0.86M	860	2530	Cool white	4000	136	18.6
P3T.1.14M	1140	3380	Cool white	4000	136	24.8
P3T.1.42M	1420	4220	Cool white	4000	136	31.0
PT3.1.7M	1700	5070	Cool white	4000	136	37.2
PT3.1.98M	1980	5910	Cool white	4000	136	43.4
PT3.2.26M	2260	6760	Cool white	4000	136	49.6
PT3.2.54M	2540	7600	Cool white	4000	136	55.8
PT3.2.82M	2820	8450	Cool white	4000	136	62.0
PT3.3.1M	3100	9290	Cool white	4000	136	68.2
PT3.3.38M	3380	10140	Cool white	4000	136	74.4
PT3.3.66M	3660	10980	Cool white	4000	136	80.6
PT3.3.94M	3940	11830	Cool white	4000	136	86.8
PT3.4.22M	4220	12670	Cool white	4000	136	93.0
PT3.4.5M	4500	13520	Cool white	4000	136	99.2

Code	Description
PT3.90 Intersection	90 Deg. intersection
PT3.Bespoke Intersection	Bespoke intersection
PT.3 Straight Connector	Straight connector
PT.3 End Cap	End cap
PT3 T Intersection	T intersection

Code	Description
/EM	Emergency version
/DALI	DALI dimmable version
/EZ	DALI Em Pro Self-test emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

- Trimless edge detail
- Infinite length combinations/can be joined using a variety of connections
- Choice of standard finishes - Anodised Aluminium/White RAL 9016/Black RAL 9005
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards
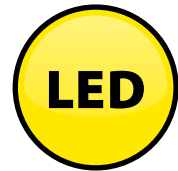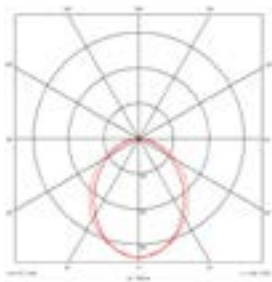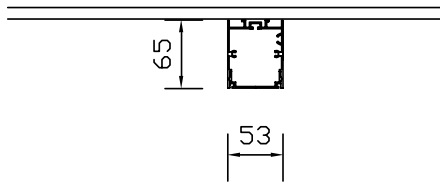
EXCEEDS PART L2 60 LM/W REQUIREMENT

C E

ECA ETL COMPLIANT

Lighting Linear

LINEAR

PROJECT FOCUS

Office Premises
Luminaire: Polaris 3T trimless

Polaris 16 Compact

Surface/Suspended Linear Luminaire

65

53

LED

IP40

CLASS I
MUST BE
EARTHED

Code	Description	Lumen Output (Lumen)	Colour	Colour Temp.(ºK)	Efficacy (L/W)	LED Module Power (W)	CRI (Ra)
P16.0.58	580mm Linear Luminaire	1690	Cool white	4000	136	12.4	80
P16.0.86	860mm Linear Luminaire	2530	Cool white	4000	136	18.6	80
P16.1.14	1140mm Linear Luminaire	3380	Cool white	4000	136	24.8	80
P16.1.42	1420mm Linear Luminaire	4220	Cool white	4000	136	31.0	80
P16.1.70	1700mm Linear Luminaire	5070	Cool white	4000	136	37.2	80
P16.1.98	1980mm Linear Luminaire	5910	Cool white	4000	136	43.4	80
P16.2.26	2260mm Linear Luminaire	6760	Cool white	4000	136	49.6	80
P16.2.54	2540mm Linear Luminaire	7600	Cool white	4000	136	55.8	80
P16.2.82	2820mm Linear Luminaire	8450	Cool white	4000	136	62.0	80
P16.3.10	3100mm Linear Luminaire	9290	Cool white	4000	136	68.2	80
P16.3.38	3380mm Linear Luminaire	10140	Cool white	4000	136	74.4	80
P16.3.66	3660mm Linear Luminaire	10980	Cool white	4000	136	80.6	80
P16.3.94	3940mm Linear Luminaire	11830	Cool white	4000	136	86.8	80
P16.4.22	4220mm Linear Luminaire	12670	Cool white	4000	136	93.0	80
P16.4.50	4500mm Linear Luminaire	13520	Cool white	4000	136	99.2	80

Code	Description
P16.1.25m SuspKit	1.25m suspension point
P16.End Cap	End cap
P16.Straight Connector	Straight connector
P16.90 Intersection	90 degree intersection
P16.T Intersection	T intersection
P16.Bespoke Intersection	Bespoke intersection

Code	Description
/EM	Emergency version
/DALI	DALI dimmable version
/EZ	DALI Em Pro self-test self-monitoring emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

- Can be surface mounted or suspended
- Infinite length combinations/can be joined using a variety of connections
- Choice of standard finishes - Anodised Aluminium/ White RAL 9016/Black RAL 9005
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards
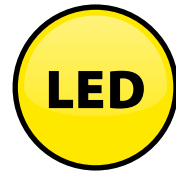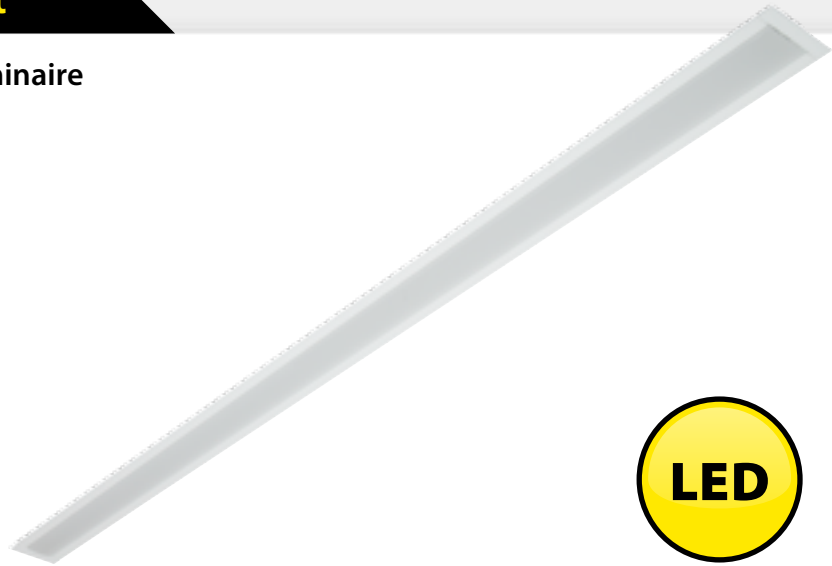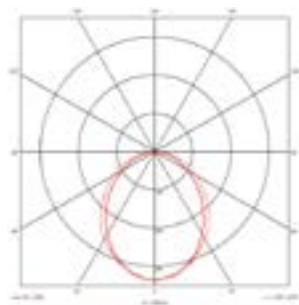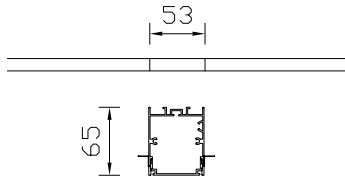- Suspended version supplied as standard with adjustable 1.25m suspension cable

EXCEEDS PART
L2 60 LM/W
REQUIREMENT

C E

ECA ETL COMPLIANT

LINEAR

For our complete product range visit **www.synergy.gb.net**
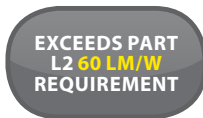
Polaris 16T Compact

Recessed Trimless Linear Luminaire

53

65

LED

| IP40 | CLASS I MUST BE EARTHED | CUT OUT 53MM | VOID DEPTH 85MM |

Code	Description	Lumen Output (Lumen)	Colour	Colour Temp.(°K)	Efficacy (L/W)	LED Module Power (W)	CRI (Ra)
P16T.0.58	580mm Linear Luminaire	1690	Cool white	4000	136	12.4	80
P16T.0.86	860mm Linear Luminaire	2530	Cool white	4000	136	18.6	80
P16T.1.14	1140mm Linear Luminaire	3380	Cool white	4000	136	24.8	80
P16T.1.42	1420mm Linear Luminaire	4220	Cool white	4000	136	31.0	80
P16T.1.70	1700mm Linear Luminaire	5070	Cool white	4000	136	37.2	80
P16T.1.98	1980mm Linear Luminaire	5910	Cool white	4000	136	43.4	80
P16T.2.26	2260mm Linear Luminaire	6760	Cool white	4000	136	49.6	80
P16T.2.54	2540mm Linear Luminaire	7600	Cool white	4000	136	55.8	80
P16T.2.82	2820mm Linear Luminaire	8450	Cool white	4000	136	62.0	80
P16T.3.10	3100mm Linear Luminaire	9290	Cool white	4000	136	68.2	80
P16T.3.38	3380mm Linear Luminaire	10140	Cool white	4000	136	74.4	80
P16T.3.66	3660mm Linear Luminaire	10980	Cool white	4000	136	80.6	80
P16T.3.94	3940mm Linear Luminaire	11830	Cool white	4000	136	86.8	80
P16T.4.22	4220mm Linear Luminaire	12670	Cool white	4000	136	93.0	80
P16T.4.50	4500mm Linear Luminaire	13520	Cool white	4000	136	99.2	80

Code	Description
P16T.End Cap	End cap
P16T.Straight Connector	Straight connector
P16T.90 Intersection	90 degree intersection
P16T.T Intersection	T intersection
P16T.Bespoke Intersection	Bespoke intersection

Code	Description
/EM	Emergency version
/DALI	DALI dimmable version
/EZ	DALI Em Pro self-test self-monitoring emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

- Trimless edge detail
- Infinite length combinations/can be joined using a variety of connections
- Choice of standard finishes - Anodised Aluminium/ White RAL 9016/Black RAL 9005
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards

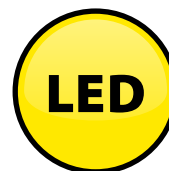EXCEEDS PART L2 **60 LM/W** REQUIREMENT   C E

ECA ETL COMPLIANT

Lighting Linear

PROJECT FOCUS

Sales Office
Luminaire: Polaris 16T

For our complete product range visit **www.synergy.gb.net**

Polaris 8 Compact

Recessed Linear Luminaire

55
100
80
75

LED

| IP40 | CLASS I
MUST BE
EARTHED | CUT
OUT
65MM | VOID
DEPTH
100MM |

Code	Description	Lumen Output (Lumen)	Colour	Colour Temp.(ºK)	Efficacy (L/W)	LED Module Power (W)	CRI (Ra)
P8.0.58	580mm Linear Luminaire	1690	Cool white	4000	136	12.4	80
P8.0.86	860mm Linear Luminaire	2530	Cool white	4000	136	18.6	80
P8.1.14	1140mm Linear Luminaire	3380	Cool white	4000	136	24.8	80
P8.1.42	1420mm Linear Luminaire	4220	Cool white	4000	136	31.0	80
P8.1.70	1700mm Linear Luminaire	5070	Cool white	4000	136	37.2	80
P8.1.98	1980mm Linear Luminaire	5910	Cool white	4000	136	43.4	80
P8.2.26	2260mm Linear Luminaire	6760	Cool white	4000	136	49.6	80
P8.2.54	2540mm Linear Luminaire	7600	Cool white	4000	136	55.8	80
P8.2.82	2820mm Linear Luminaire	8450	Cool white	4000	136	62.0	80
P8.3.10	3100mm Linear Luminaire	9290	Cool white	4000	136	68.2	80
P8.3.38	3380mm Linear Luminaire	10140	Cool white	4000	136	74.4	80
P8.3.66	3660mm Linear Luminaire	10980	Cool white	4000	136	80.6	80
P8.3.94	3940mm Linear Luminaire	11830	Cool white	4000	136	86.8	80
P8.4.22	4220mm Linear Luminaire	12670	Cool white	4000	136	93.0	80
P8.4.50	4500mm Linear Luminaire	13520	Cool white	4000	136	99.2	80

Code	Description
P8.End Cap	End cap
P8.Straight Connector	Straight connector
P8.90 Intersection	90 degree intersection
P8.T Intersection	T intersection
P8.Bespoke Intersection	Bespoke intersection

Code	Description
/EM	Emergency version
/DALI	DALI dimmable version
/EZ	DALI Em Pro self-test self-monitoring emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

- Infinite length combinations/can be joined using a variety of connections
- Choice of standard finishes - Anodised Aluminium/White RAL 9016/Black RAL 9005
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards
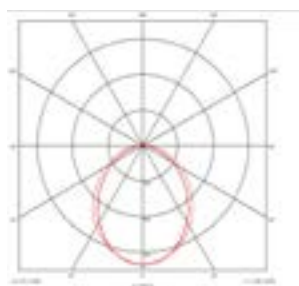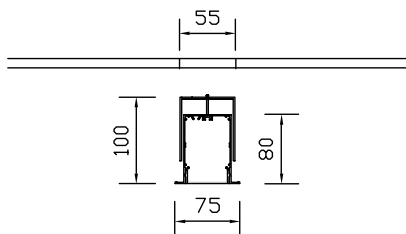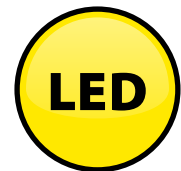
EXCEEDS PART L2 **60 LM/W** REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting **Linear**

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Polaris 17 Wall

Linear LED Up/Down Wall Light

100

48

LED

IP40

CLASS II
DOUBLE INSULATED

Code	Description	Total Wattage (W)	Lumen Output (Lumen)	Colour	Colour Temp.(°K)	LED Efficacy (L/W)	CRI (Ra)
127300	580mm Linear Wall Luminaire	24.8	3380	Cool White	4000	136	80
127302	860mm Linear Wall Luminaire	37.2	5060	Cool White	4000	136	80
127304	1140mm Linear Wall Luminaire	49.6	6760	Cool White	4000	136	80
127306	1420mm Linear Wall Luminaire	62.0	8440	Cool White	4000	136	80
127308	1700mm Linear Wall Luminaire	74.4	10140	Cool White	4000	136	80

Code	Description
/D	DALI dimmable version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

- Slim profile
- High-efficiency LED boards
- Wide beam distribution
- Aluminium construction
- Polycarbonate opal cover

EXCEEDS PART L2 60 LM/W REQUIREMENT CE

Lighting Linear

Synergy
YOUR RESOURCE FOR SUCCESS

Cirro

Circular Ring Pendant

LED

IP20

CLASS I MUST BE EARTHED

Code	Description	Wattage (W)	Lumen Output (Lumen)	Colour Temp.(ºK)	CRI (Ra)
127206	800mm Diameter Cirro Pendant	43.4	5880	4000	80
127208	1000mm Diameter Cirro Pendant	62	8400	4000	80
127210	1200mm Diameter Cirro Pendant	74.4	10080	4000	80
127212	1500mm Diameter Cirro Pendant	86.8	12600	4000	80
127214	2000mm Diameter Cirro Pendant	111.6	15120	4000	80

Code	Description
/D	Dimmable version (Please specify DALI/DSI/ Switch Dim/1-10V)
/E	Emergency version
/SF	Surface-mount version without suspension wires
/UL	Uplight version (Doubles output using the same LED boards as the downlight)
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

Anodised aluminium finish as standard with white/black powdercoating available to order. Bespoke RAL finishing also available; please specify required RAL colour.

- Aluminium construction
- Opal diffuser
- Built-in control gear
- Can be surface mounted or suspended
- Anodised aluminium finish as standard with white/black powdercoating available to order
- Bespoke RAL finishing also available; please specify required RAL colour
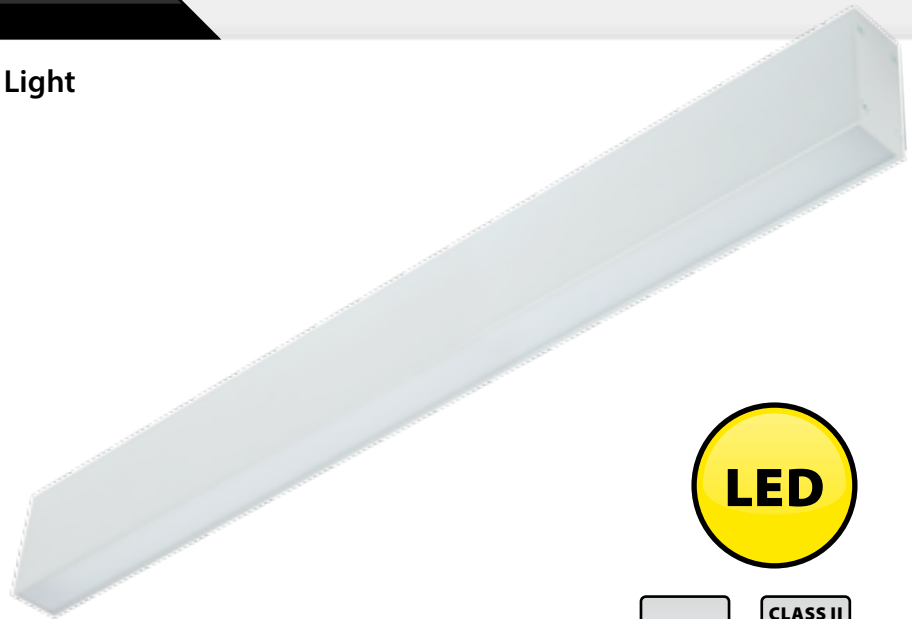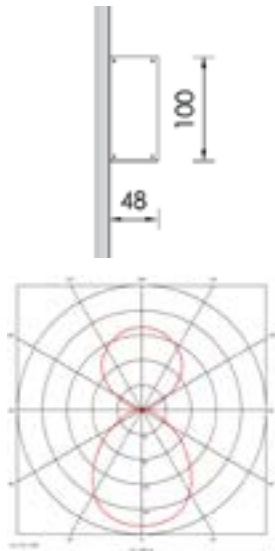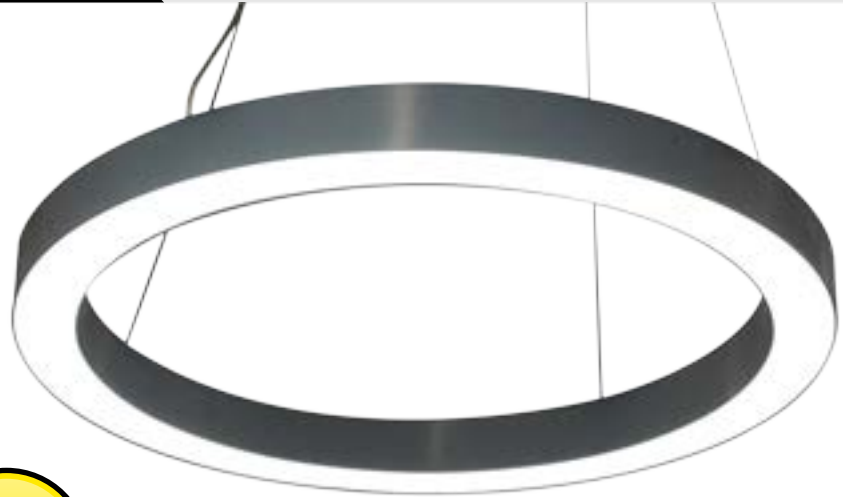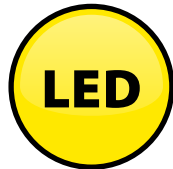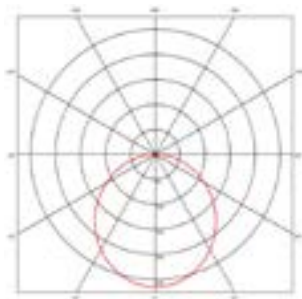- European branded control gear and LED boards

BUILT IN CONTROL GEAR

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting Pendants

Nimbo

Circular LED Disc Pendant

LED

IP20

CLASS I MUST BE EARTHED

Code	Description	Wattage (W)	Lumen Output (Lumen)	Colour Temp.(°K)	CRI (Ra)
127230	800mm Diameter Nimbo Pendant	62	8430	4000	80
127232	1000mm Diameter Nimbo Pendant	74.4	10080	4000	80
127234	1200mm Diameter Nimbo Pendant	124	16850	4000	80

Code	Description
/D	Dimmable version (Please specify DALI/DSI/Switch Dim/1-10V)
/E	Emergency version
/SF	Surface-mount version without suspension wires
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature

Anodised aluminium finish as standard with white/black powdercoating available to order. Bespoke RAL finishing also available; please specify required RAL colour.

- Aluminium construction
- Opal diffuser
- Built-in control gear
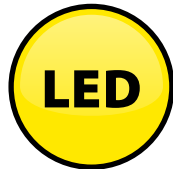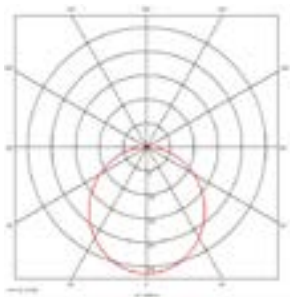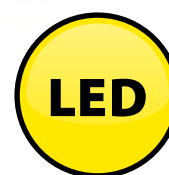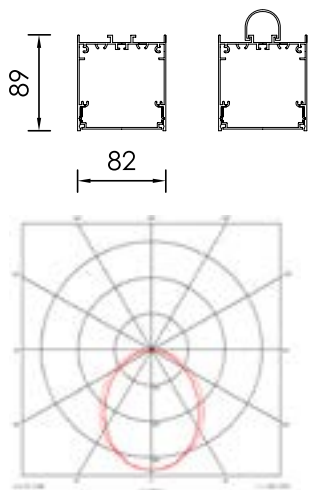- Can be surface mounted or suspended
- Anodised aluminium finish as standard with white/black powdercoating available to order
- Bespoke RAL finishing also available; please specify required RAL colour
- European branded control gear and LED boards

BUILT IN CONTROL GEAR

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting Pendants

Polaris 1 Box

LED Box Pendant

89

82

LED

IP40

CLASS I
MUST BE
EARTHED

Specify side length from options below

Code	Side Length (mm)	Lumen Output (Lumen)	Output Colour	Colour Temp (°K)	Efficacy (Lumen/W)	LED Module Power (W)
P1BOX.0.58M	580	1690	Cool White	4000	136	12.4
P1BOX.0.86M	860	2530	Cool White	4000	136	18.6
P1BOX.1.14M	1140	3380	Cool White	4000	136	24.8
P1BOX.1.42M	1420	4220	Cool White	4000	136	31.0
P1BOX.1.7M	1700	5070	Cool White	4000	136	37.2
P1BOX.1.98M	1980	5910	Cool White	4000	136	43.4
P1BOX.2.26M	2260	6760	Cool White	4000	136	49.6
P1BOX.2.54M	2540	7600	Cool White	4000	136	55.8
P1BOX.2.82M	2820	8450	Cool White	4000	136	62.0
P1BOX.3.1M	3100	9290	Cool White	4000	136	68.2
P1BOX.3.38M	3380	10140	Cool White	4000	136	74.4
P1BOX.3.66M	3660	10980	Cool White	4000	136	80.6
P1BOX.3.94M	3940	11830	Cool White	4000	136	86.8
P1BOX.4.22M	4220	12670	Cool White	4000	136	93.0
P1BOX.4.5M	4500	13520	Cool White	4000	136	99.2

Code	Description
P1BOX.1.25m SuspKit	1.25m suspension point
P1BOX Straight Connector	Straight connector
P1BOX.90 Intersection	90 Deg. intersection
P1BOX T Intersection	T intersection

Code	Description
/EM	Emergency version
/DALI	Dali dimmable version
/EZ	Dali em pro self-test emergency version
/3000K	Warm white colour temperature
/5000K	Cool daylight colour temperature
/UL	Downlight/uplight version

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting Pendants

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Gyro

Feature Pendant Luminaire

LED

IP40

CLASS II
DOUBLE
INSULATED
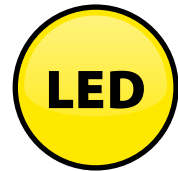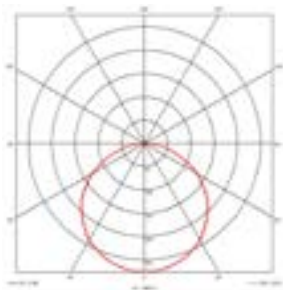
Code	Description	Wattage (W)	Lumen Output	Colour	Colour Temp.(°K)	Size (mm)	CRI (Ra)
127251	Gyro Ring Pendant 600mm	22	590	Aluminium	4000	600x16.60	80
127253	Gyro Ring Pendant 800mm	28	780	Aluminium	4000	800x16.60	80
127255	Gyro Ring Pendant 1000mm	34	960	Aluminium	4000	1000x16.60	80
127256	Gyro Ring Pendant 1200mm	40	1111	Aluminium	4000	1200x16.60	80

4000K provided as standard, 3000k available
on request.

Example light display

**EXCEEDS PART
L2 60 LM/W
REQUIREMENT**

C E

ECA ETL COMPLIANT

Lighting Pendants
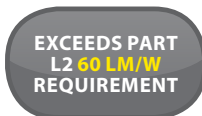
Revolution

High Performance LED Pendant

CLASS II
DOUBLE INSULATED

Code	Description	Colour Temp. (°K)	Wattage (W)	Light Output (Lumens)	Dimensions (mm)	Luminaire Efficacy	CRI (Ra)	Rated Life (Hours)
129000	1034 lumen LED pendant	3000	12	1034	420Hx413W	86.5	80	60,000
129002	1034 lumen LED pendant	4000	10.9	1034	420Hx413W	94.9	80	60,000
129004	1880 lumen LED pendant	3000	20.8	1880	420Hx413W	90.2	80	60,000
129006	1880 lumen LED pendant	4000	19	1880	420Hx413W	98.7	80	60,000
129008	2820 lumen LED pendant	3000	30.3	2820	420Hx413W	93.1	80	60,000
129010	2820 lumen LED pendant	4000	27.8	2820	420Hx413W	101.5	80	60,000
129012	4700 lumen LED pendant	3000	50.5	4700	420Hx413W	93.1	80	60,000
129014	4700 lumen LED pendant	4000	46.3	4700	420Hx413W	101.5	80	60,000

Code	Description
/D	Dimmable control gear - DALI/DSI/Switch Dim
/E	Emergency option available
	2m suspension kit as standard, 5m option available on request
	Black/White collar options available on request

- 2m suspension kit as standard; 5m version also available

60 LUMENS PER WATT

DALI **C €**

Lighting Pendants

Ursa

Pendant Fitting

LED

IP20

CLASS I MUST BE EARTHED

Code	Description	Lamp Type	Inner Reflector Colour	Outer Reflector Colour	Diameter (mm)
127270	Ursa Pendant	E27	White	RAL 9016 - Traffic White	420
127270/RAL9016	Ursa Pendant	E27	White	RAL 9005 - Jet Black	420
127270/RAL3020	Ursa Pendant	E27	White	RAL 3020 - Traffic Red	420
127270/RAL1018	Ursa Pendant	E27	White	RAL 1018 - Zinc Yellow	420
127270/RAL3017	Ursa Pendant	E27	White	RAL 3017 - Rose Pink	420
127270/RAL5015	Ursa Pendant	E27	White	RAL 5015 - Sky Blue	420
127270/RAL6038	Ursa Pendant	E27	White	RAL 6038 - Luminous Green	420
127270/RAL2004	Ursa Pendant	E27	White	RAL 2004 - Pure Orange	420
127270/RAL			White	Bespoke RAL colour of your choice (please specify)	420

Code	Description
127272/BLUE	1.5m Blue Cord
127272/YELLOW	1.5m Yellow Cord
127272/WHITE	1.5m White Cord
127272/IRON	1.5m Black/White `Iron` Cord
127272/GREEN	1.5m Green Cord
127272/GREY	1.5m Grey Cord
127272/PINK	1.5m Pink Cord
127272/RED	1.5m Red Cord
127272/BLACK	1.5m Black Cord
127272/ORANGE	1.5m Orange Cord
127272/BROWN	1.5m Brown Cord

Code	Description
127274	1055 Lumen 2700K E27 LED lamp (can be dimmed with Varilight JQP252/401 dimmer)
125990	DALI Input 8A Volt-Free Relay Unit IP2X (For installation external to pendant)

Lighting Pendants

CE

Synergy
YOUR RESOURCE FOR SUCCESS

Strato

Linear LED Pendant

LED

IP20

CLASS I
MUST BE EARTHED

Code	Colour Temp.(ºK)	Description	Wattage (W)	Luminaire Output (Lumen)	Colour	Size (mm)	Luminaire Efficacy (L/W)	CRI (Ra)	Rated Life (Hours)
137030	3000	1389 Lumen Integrated LED Decorative Pendant	11	1389	Red/Grey/Black	1320x173	126.2	80	60,000
137032	4000	1409 Lumen Integrated LED Decorative Pendant	11	1409	Red/Grey/Black	1320x173	128.1	80	60,000

Code	Description
/R	Red Gloss
/G	Grey Satin
/B	Black Satin
/RAL	Custom RAL

• Supplied with adjustable 2m suspension cable

EXCEEDS PART L2 60 LM/W REQUIREMENT

C E

ECA ETL COMPLIANT

Leo

Decorative LED Pendant

LED

Red braid cable option

IP20

CLASS I
MUST BE EARTHED

Code	Wattage (W)	Luminaire Output (Lumen)	Colour	Colour Temp.(ºK)	Size (mm)	Luminaire Efficacy (L/W)	CRI (Ra)
137020	6	487	Red/Grey/Black	2700	335W x 218H	81	80

Code	Description
/R	Red Gloss Outer/Satin White Inner
/G	Grey Satin Outer/Satin White Inner
/B	Black Satin Outer/Satin White Inner
/RAL	Custom RAL Outer/Satin White Inner
/RC	Red Braided Cable Option

• Supplied with adjustable 2m suspension cable

EXCEEDS PART L2 60 LM/W REQUIREMENT

C E

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Globe

LED Pendant

IP20

CLASS I MUST BE EARTHED

LED
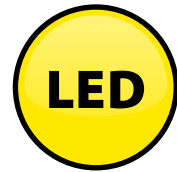
Code	Description	Wattage (W)	Final Lumen Output (Lumen)	Colour Temp.(ºK)	Diameter (mm)	Luminaire Efficacy (L/W)
127262	4875 Lumen LED Globe Pendant	39	3948	4000	400	101
127264	9200 Lumen LED Globe Pendant	78	7452	4000	450	95

Code	Description
/D	DALI DSI Option
/3000K	Warm White Colour Temperature
/5000K	Cool Daylight Colour Temperature

- Acrylic moulded globe
- Steel spun two piece gallery plate with gear tray fixed to this

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

Orba

Spherical LED Pendant

IP40

CLASS I MUST BE EARTHED

LED

Orba Pendant   Orba surface

Code	Description	Diameter (mm)	Cap
127250	Orba 250 Surface	250	E27
127252	Orba 200 Pendant	200	E27
127254	Orba 300 Pendant	300	E27
127260	5W LED E27 3000K Lamp	N/A	N/A
125990	DALI 8A Volt-Free Relay Unit (For installation external to luminaire)		

- Satin nickel base
- Opal glass white shade

CE

Lighting Pendants

Dart

Tubular LED Pendant

IP20

60 LUMENS PER WATT

LED

Code	Description	Wattage (W)	Light Output (Lumens)	Colour Temp (°K)	Dimensions (mm)	Rated Life (Hours)
128100	640mm Suspended LED Pendant	12	900	4000	640x40	50,000
128102	1220mm Suspended LED Pendant	24	1950	4000	1220x40	50,000
3000k colour temperature available on request						

• Supplied with adjustable 2m suspension cable

CE

Polaris N2

Tubular LED
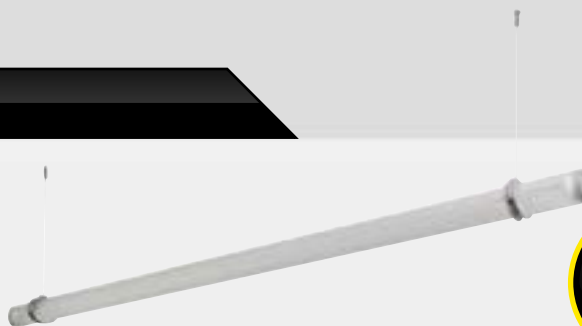
IP68

60 LUMENS PER WATT

LED

Code	Description	Wattage (W)	Light Output (Lumens)	LED Module Efficacy (Lumens / Watts)	Luminaire Efficacy	CRI (Ra)	Rated Life (Hours)
125802	580mm Tubular LED	12.4	1690	136	95	80	50,000
125804	860mm Tubular LED	18.6	2530	136	95	80	50,000
125806	1140mm Tubular LED	24.8	3380	136	95	80	50,000
125808	1420mm Tubular LED	31	4220	136	95	80	50,000
125810	1700mm Tubular LED	37.2	5070	136	95	80	50,000
125812	1980mm Tubular LED	44	5910	136	95	80	50,000

Code	Description
/D	Dali dimmable version
/E	90 minute M3 Emergency version (1140mm-1700mm luminaires only)

CE

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

PROJECT FOCUS

Serviced Offices
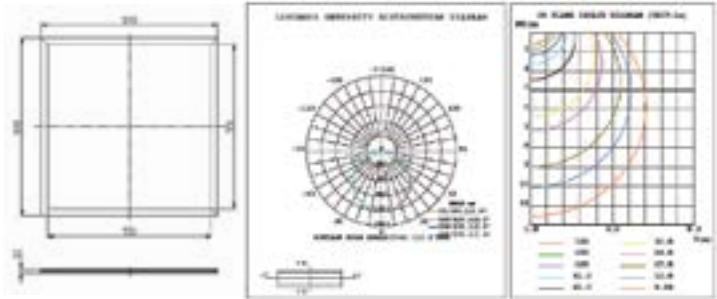Luminaire: Polaris 1 Suspended

Sigmalux

LED Panel Luminaire 600x600

LED

" They give an amazing spread of light. "

Mr R - Contracts Manager

" We love them because it`s no thicker than the ceiling tile. "

Mr E - Project Manager

IP20

CLASS II
DOUBLE INSULATED

5 YEAR WARRANTY

Code	Description	Colour	Colour Temp. (°K)	Power Usage (W)	Voltage (V)	Light Output (Lumens)	Efficacy (Lumens / Watts)	CRI (Ra)	Light Diffusion	Rated Life (Hours)	Dimensions (mm)
121540	600x600mm LED Panel	Cool White	4000	40	240	3200	80	>80	120°	50,000	595x595x13
121542	600x600mm LED Panel	Daylight	6000	40	240	3500	87.5	>80	120°	50,000	595x595x13
125320	1200x600mm LED Panel	Cool White	4000	76	240	6500	85	>80	120°	50,000	1195x595x13
125330	1200x300mm LED Panel	Cool White	4000	40	240	3200	80	>80	120°	50,000	1195x295x13
125340	600x300mm LED Panel	Cool White	4000	40	240	3,200	80	>80	120°	50,000	595x295x13

Code	Description
121534	4 Post surface mounting bracket for 600x600 and 600x300 panels
121536	6 Post surface mounting bracket for 1200x600 and 1200x300 panels
117860	600x600mm Surface Mounting Box
117862	600x600mm Recessing Kit
121534	4 Wire 1.5m suspension kit for 600x600 and 600x300 panels
121536	6 Wire 1.5m suspension kit for 1200x600 and 1200x300 panels

Code	Description
/E	3 Hour Emergency Module
/D	Dimmable versions DALI/DSI/SwitchDIM (0-10V Dimming available to special order)

- 5 Year warranty
- Super slim 13mm flat frame
- White opal diffuser
- High quality polished aluminium reflector and heat sink
- Suitable for mounting within suspended and plasterboard ceilings
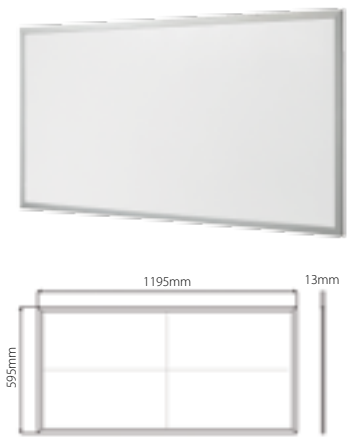- Available with emergency and dimmable control options
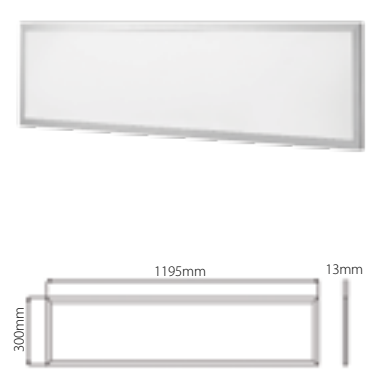
EXCEEDS PART L2 60 LM/W REQUIREMENT
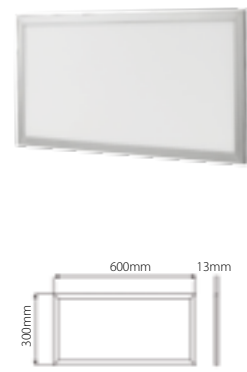
C E

ECA ETL COMPLIANT

Lighting Recessed

Sigmalux

LED Panel Luminaire 1200x600

1195mm 13mm

595mm

LED Panel Luminaire 1200x300

1195mm 13mm

300mm

LED Panel Luminaire 600x300

600mm 13mm

300mm

Sigmalux Mounting Brackets

1200x300 Sigmalux LED Panel Suspended using mounting brackets
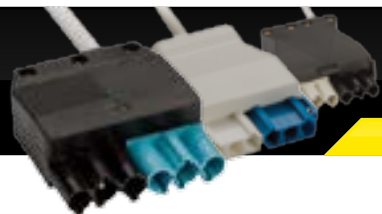

Surface Mounting

Wall Mounting

Suspension Mounting

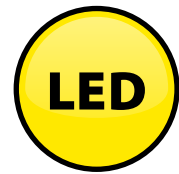**UNIQUE MULTIFUNCTION BRACKETS**
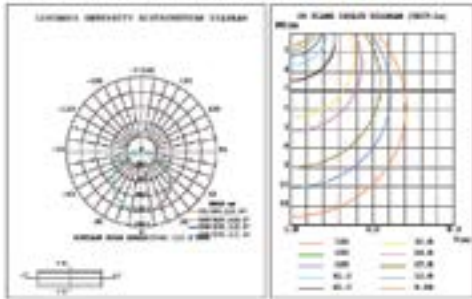

DON'T FORGET...
PRE-WIRING SERVICE
For projects with 100+ units, we can supply pre-wired and tested with the correct lead and plug for the site

Lighting Recessed

Sigmalux White Rim

LED Panel Luminaire

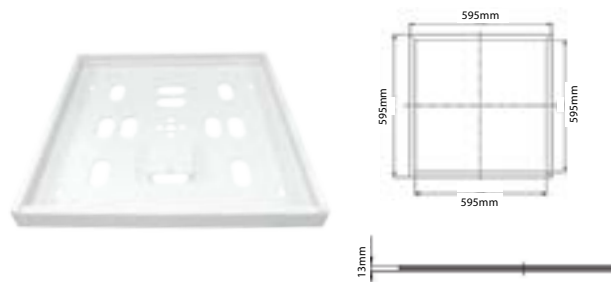**LED**

IP40

CLASS I
MUST BE EARTHED

Code	Description	Colour	Colour Temp. (ºK)	Power Usage (W)	Voltage (V)	Light Output (Lumens)	Efficacy (Lumens / Watts)	CRI (Ra)	Light Diffusion	Rated Life (Hours)	Dimensions (mm)	Rim Colour
130000	600x600mm LED Panel	Cool White	4000	35	240	3738	106	>80	120O	50,000	595x595x10	White
130000/6K	600x600mm LED Panel	Daylight	6000	34	240	3845	111	>80	120O	50,000	595x595x10	White
130000/3K	600x600mm LED Panel	Warm White	3000	36	240	3381	93	>80	120O	50,000	595x595x10	White
130100	1200x600mm LED Panel	Cool White	4000	76	240	6884	91	>80	120O	50,000	595x595x10	White

Code	Description
121534	4 Post surface mounting bracket for 600x600 and 600x300 panels
121536	6 Post surface mounting bracket for 1200x600 and 1200x300 panels
121590	600x600mm Surface Mounting Box
117862	600x600mm Recessing Kit
121534	4 Wire 1.5m suspension kit for 600x600 and 600x300 panels
121536	6 Wire 1.5m suspension kit for 1200x600 and 1200x300 panels

Code	Description
/E	3 Hour Emergency Version
/D	Dimmable versions DALI/DSI/SwitchDIM (0-10V Dimming available to special order)

- Super slim flat frame
- White opal diffuser
- Can be used within either 15mm or 24mm T-Bar suspended ceiling
- Tridonic driver as standard

Mounting Box - 121590

595mm
595mm
595mm
595mm
13mm

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

PROJECT FOCUS

Corridor
Fixture: Sigmalux LED Panel

Epsilon

Back-lit LED Panel

Standard Construction

LED
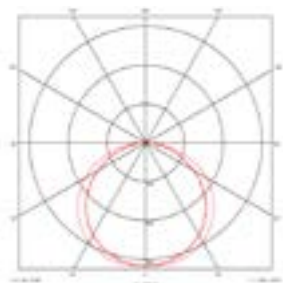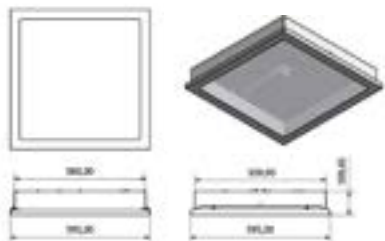
5 YEAR WARRANTY

IP20/ IP54

CLASS I
MUST BE EARTHED

Code	Size (mm)	Lumen Output Emitted From Luminaire (Lumens)	Output Colour	Colour Temp (⁰K)	Wattage (W)	Weight (kg)	LED Wattage (W)	Rated Life L70 (hours)
124420	495x495	2300	4000	21	18	3.9	101	110
124422	495x495	3460	4000	30	27	3.9	101	115
122370	595x595	2300	4000	21	18	4.4	101	110
122372	595x595	3450	4000	33	27	4.4	101	105
122374	595x595	4530	4000	45	40	4.4	101	101
122376	1195x595	6075	4000	60	54	7.3	101	101
122378	1195x595	8900	4000	85	72	7.3	101	105
122380	1195x595	11700	4000	120	108	7.3	101	98
124424	1195x595	3030	4000	26	26	4.4	101	98

Code	Description
/5000K	
/IP54	IP54 sealed front panel
/SM	Body construction suitable for surface mounting installation
/PB	Body construction suitable for plasterboard installation
/ICG	Body construction suitable for concealed grid applications.

Code	Description
/EM	Emergency Version
/DIM	Dimmable version - please specify DALI/DSI/0-10V/Switch-DIM
/MW	Integral microwave motion sensor

Concealed Grid Ceilings Option

Lighting Recessed

EXCEEDS PART L2 60 LM/W REQUIREMENT

C E

ECA ETL COMPLIANT

Lumos LED

Elite Recessed Modular with Micro Prismatic Diffuser

IP20

CLASS I MUST BE EARTHED

Code	Size (mm)	Luminaire Wattage (W)	LED Wattage (W)
122464	595x595x70	30	27
122466	595x595x70	45	36
122468	595x595x70	40	40
122470	595x595x70	60	54

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI
/MW	Integral microwave motion sensor
/5000K	Daylight colour output
/SA	Side arm suspension

LED

- 5 year warranty
- High efficacy Nichea LED modules
- Can be supplied with integral presence sensor
- Central panel louvre with 65 degree cut-off

5 YEAR WARRANTY

Omikron LED

Elite Recessed Modular with Aluminium Louvre

IP20

CLASS I MUST BE EARTHED

Code	Size (mm)	Luminaire Wattage (W)	LED Wattage (W)
122544	595x595x80	21	18
122546	595x595x80	30	27
122548	595x595x80	45	40
122550	595x595x80	52	48

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI/0-10V
/MW	Integral microwave motion sensor
/5000K	Daylight colour output

LED

- 5 year warranty
- High efficacy Nichea LED modules
- Ideal for use in offices
- Combines optimum efficiency with stylish looks

5 YEAR WARRANTY

Lighting Recessed

For our complete product range visit **www.synergy.gb.net**

Tetra 7

Recessed Indirect-Direct with Cat. 2 Louvre

IP20

CLASS I
MUST BE EARTHED

Code	Lamp	Size (mm)
114422	2 x 40W TC-L	595x595x92
114424	1 x 55W TC-L	595x595x92
114426	2 x 55W TC-L	595x595x92
114430	3 x 14W T5	595x595x92
114432	4 x 14W T5	595x595x92
114434	2 x 24W T5	595x595x92
114436	3 x 24W T5	595x595x92
114438	4 x 24w T5	595x595x92

| Code	Description
/D	0-10V Dimmable ballast
/DALI	DALI/DSI Dimmable Ballast
/M	3 Hour Maintained Emergency
/MZ	3 Hour Maintained DALI Emergency

T5 TC-L

- Reflective gloss white powder coated finish to maximise lumen output
- Turnbuckle fastening easily-accessible gear tray
- Pull-down Cat. 2 louvre
- Air handling option available
- Option for SAS ceilings available
- European branded HF ballast

Tetra

Recessed Indirect Luminaire with Central Perforated Trough

IP20

CLASS I
MUST BE EARTHED

Code	Lamp	Size (mm)
114302	2 x 40W TC-L	595x595x92
114304	1 x 55W TC-L	595x595x92
114306	2 x 55W TC-L	595x595x92
114310	3 x 14W T5	595x595x92
114312	4 x 14W T5	595x595x92
114314	2 x 24W T5	595x595x92
114316	3 x 24W T5	595x595x92

Code	Description
/D	0-10V Dimmable ballast
/DALI	DALI/DSI Dimmable Ballast
/M	3 Hour Maintained Emergency
/MZ	3 Hour Maintained DALI Emergency

T5 TC-L

Lighting Recessed

RECESSED
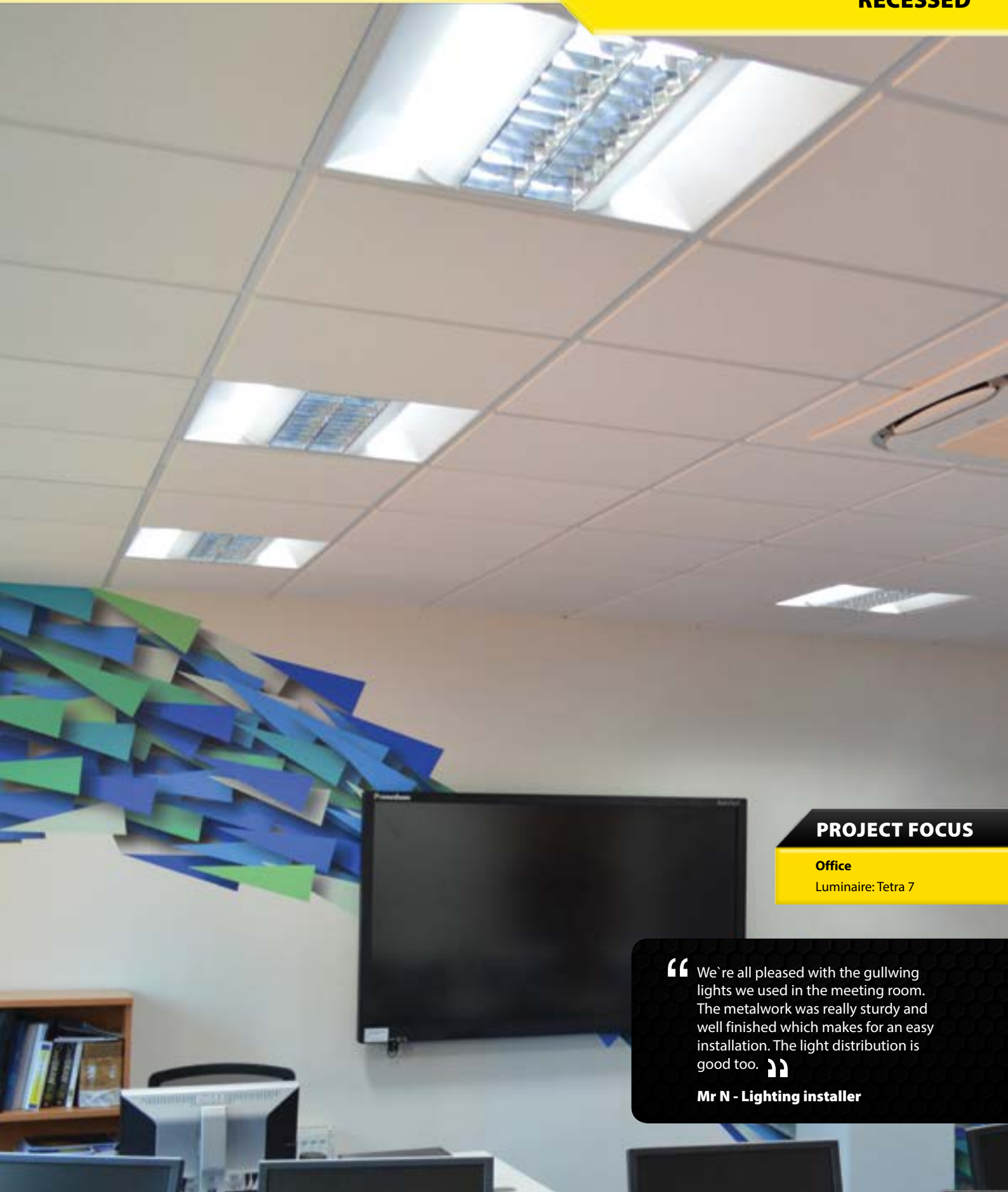
PROJECT FOCUS

Office
Luminaire: Tetra 7

" We`re all pleased with the gullwing lights we used in the meeting room. The metalwork was really sturdy and well finished which makes for an easy installation. The light distribution is good too. "

Mr N - Lighting installer

For our complete product range visit **www.synergy.gb.net**

T5 Lux-Mod

Elite T5 Luminaire with VDT Louvres

IP20	CLASS I MUST BE EARTHED

Code	Lamp	Size (mm)
114760	3 x 14W T5 lamp	595x595x64
114762	4 x 14W T5 lamp	595x595x64
114764	3 x 24W T5 lamp	595x595x64
114766	4 x 24W T5 lamp	595x595x64

Code	Description
/EM	Emergency Version
/DIM	Dimmable version (Please specify SwitchDIM/DALI/0-10V/DSI
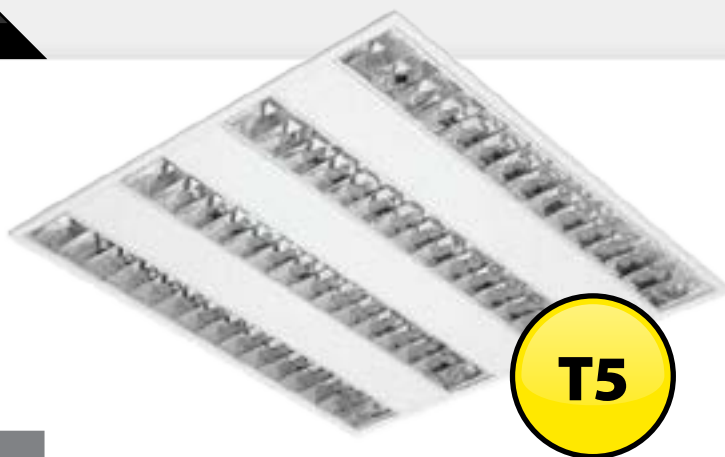
T5

- Polished aluminium VDT louvres
- Cost-effective elite T5 luminaire
- White powder coated finish
- HF control gear as standard

Combi-Mod T5/T8

Cat. 2 Recessed Modular Downlight

IP20	CLASS I MUST BE EARTHED

Code	Type	Wattage (W)	Size (mm)
107104	T8	4x18	595x595x86
114794	T8	4x36	595x595x86
116450	T5	3x14	595x595x90
116452	T5	4x14	595x595x90
116454	T5	3x28	1195x595x90
116456	T5	4x28	1195x595x90

Code	Description
/EMT8	Emergency Version (T8)
/EMT5	Emergency Version (T5)
/DIM	Dimmable Version (T8)
/DIM	Dimmable Version (T5)

CAT 2

- Retained wishbone spring louvre
- High specification cost-effective modular
- Polished aluminium VDT (Cat2) louvre
- Body formed from white powder coated sheet steel

Lighting Recessed

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Lay-In Modular System

Standard T8 Lay -In Modular System

Code	Description (Options for 600 x 600mm size)
114814	4 x 18W, HF control, body only
114816	4 x 18W, HF control, plus emergency gear, body only
114818	Four tube, Cat. 2, lay-in louvre - 24mm grid
114820	Four tube, low brightness, lay-in louvre - 24mm grid
114822	Prismatic diffuser, Type A - 15/24mm grid
105372	Prismatic diffuser, Type B - 15/24mm grid

Code	Description (Options for 600 x 1200mm size)
114854	4 x 36W, HF control, body only
114856	4 x 36W, HF control, plus emergency gear, body only
114858	Four tube, Cat. 2, lay-in louvre - 24mm grid
114860	Four tube, low brightness, lay-in louvre - 24mm grid
114862	- 24mm grid
105374	Prismatic diffuser, Type B - 15/24mm grid

Firehoods

Modular Firehoods

Code	Description
103442	600x600mm, for recessed modular
103444	1200x600mm, for recessed modular

Downlight Firehoods

Code	Description	Size
103440	Polka 176	200x200x230mmH
103441	Polka 222	260x260x260mmH
103443	Turbo louvre	350x350x230mmH

Lighting Recessed

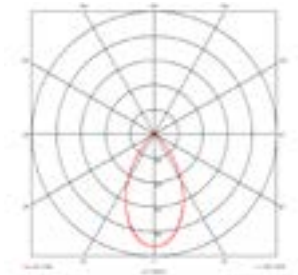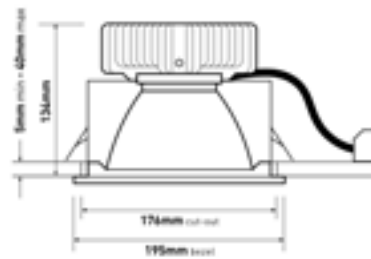## TarxLED

LED Downlight

"Our client thought they were great because they saved energy and cut out lamp changing."

Mr O - Project Manager

LED

IP20/ IP54/ IP65	CUT-OUT 176MM	VOID DEPTH 134MM	CLASS II DOUBLE INSULATED

Code	Output Colour	Lumen Output	Colour Temp (°K)	Wattage (W)	Efficacy (Lum/W)	Luminaire DLOR (%)	CRI(Ra)	Rated Life (Hours)	Cut-Out (mm)	Replaces
122092	Warm White	1060	3000	9	102.7	87	>80	50,000	176	2x18W CFL
122096	Cool White	1120	4000	9	107.9	87	>80	50,000	176	2x18W CFL
122100	Warm White	2000	3000	19	90.5	87	>80	50,000	176	2x18W CFL
122104	Cool White	2000	4000	19	90.5	87	>80	50,000	176	2x18W CFL
122108	Warm White	3000	3000	28	94	87	>80	50,000	176	2x18W CFL
122112	Cool White	3000	4000	28	94	87	>80	50,000	176	2x18W CFL

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - DALI/DSI//Switch Dim

- Satin etched reflector
- Die cast Twist and lock bezel with a range of interchangeable accessories
- Efficacy up to 107 lm/tcW
- Up to 3000 lumen output

5 YEAR WARRANTY

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting Downlights

DOWNLIGHTS

120016 White Bezel

120018 Chrome Bezel

120020 Brushed Chrome Bezel

120022 IP65 Glass Bezel

120024 Etched Outer Drop Glass

120026 Etched Centre Drop Glass

120028 Etched Halo Drop Glass

120030 Frosted Drop Glass

120032 Mesh-sided Drop Glass with Etched Outer Glass

120034 Mesh-sided Drop Glass with Etched Centre Glass

120036 Mesh-sided Drop Glass with Etched Halo Glass

120038 Mesh-sided Drop Glass with Fully Frosted Glass

120056 IP54 Clear Glass

120058 IP54 Etched Centre Glass

120060 IP54 Fully Frosted Glass

120040 Red Halo Drop Glass

120042 Blue Halo Drop Glass

120044 Green Halo Drop Glass

120048 Blue lens

DON'T FORGET...
MOUNTING BACKBOARDS
Perfect for mounting into soft ceiling tiles
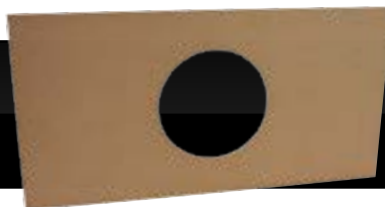
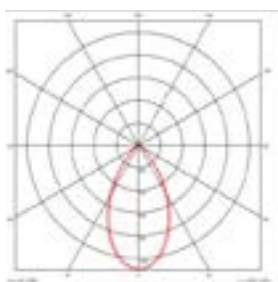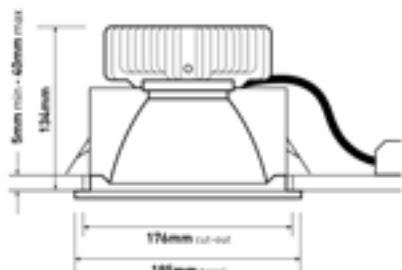**CALL FOR DETAILS**

DON'T FORGET...
PRE-WIRING SERVICE
For projects with 50+ units, we can supply pre-wired and tested with the correct lead and plug for the site

SEE PAGE 06

Lighting Downlights

For our complete product range visit **www.synergy.gb.net**

TarxLED Elite

LED Downlight

LED

176mm cut-out
195mm bezel

| IP20 | CLASS II DOUBLE INSULATED | CUT OUT 176MM | VOID DEPTH 134MM |

Code	Description	Wattage (W)	Light Output (Lumens)	Colour	Colour Temp.(°K)	Size (mm)	Efficacy (L/W)	CRI (Ra)	Rated Life (Hours)
122150	LED Downlight	9.9	1001	Cool White	4000	134Hx195W	100.9	80	50,000
122152	LED Downlight	19.9	1775	Cool White	4000	134Hx195W	99.2	80	50,000

Code	Description
120056	IP54 Clear Glass

Code	Description
/E	Emergency version

- High performance Philips module with integral non-dimmable driver
- Cost-effective high performance downlight
- Up to 101 Lumen/Watt

60 LUMENS PER WATT

CE

Canne

LED Surface Downlight

IP20

CLASS II
DOUBLE
INSULATED
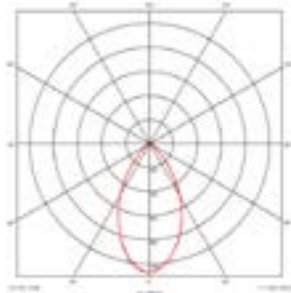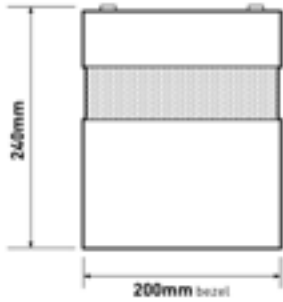
Code	Description	Wattage (W)	Lumen Output	Colour Temp.(°K)	Size (mm)	Efficacy (L/W)	CRI (Ra)
127330	LED Surface Canne	12	824	3000	240Hx200W	69.5	80
127332	LED Surface Canne	10.9	833	4000	240Hx200W	76.5	80
127334	LED Surface Canne	20.8	1517	3000	240Hx200W	72.9	80
127336	LED Surface Canne	19	1516	4000	240Hx200W	79.8	80
127338	LED Surface Canne	30.3	2273	3000	240Hx200W	75	80
127340	LED Surface Canne	27.8	2272	4000	240Hx200W	81.7	80
127342	LED Surface Canne	50.5	3803	3000	240Hx200W	75.3	80
127344	LED Surface Canne	46.3	3801	4000	240Hx200W	82.1	80

Code	Description
/E	Emergency
/D	DALI + Switch Dim

Code	Description
/W	White
/B	Black
/G	Grey
127348	2m std suspension fixed output kit
127349	2m DALI suspension kit

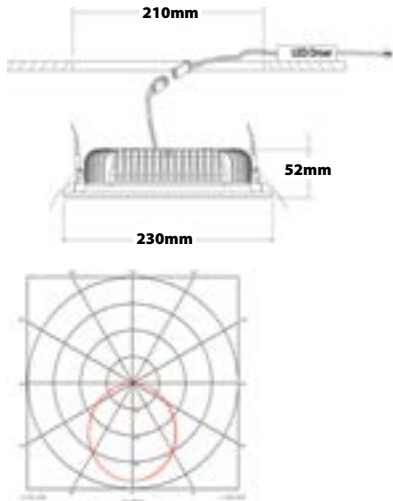White/Black/Grey Colour Options available

- Satin etched reflector
- Integral emergency and dimming options available

EXCEEDS PART
L2 **60 LM/W**
REQUIREMENT

CE

ECA ETL COMPLIANT

Lighting Downlights

Axiome

LED Downlight

210mm

52mm

230mm

LED

TRIDONIC CONTROL GEAR

5 YEAR WARRANTY

BEST SELLER

| IP40/ IP44 | CUT-OUT 210MM | VOID DEPTH 52MM | CLASS II DOUBLE INSULATED |

Code	Description	Wattage (W)	Initial Lumen Output	Final Lumen Output	Lumens per Watt	Colour	Colour Temp (⁰K)	Beam Angle (Degrees)	CRI (Ra)	Replaces	Cut-Out (mm)
124178	1524 Lumen Downlight	20	2000	1524	76.2	Cool White	4000	100	80	2x18W PLC	210
124202	2315 Lumen Downlight	31	3100	2315	74.7	Cool White	4000	100	80	2x26W PLC	210

3000K and 6000K downlights available to special order

Code	Description
/DIM	Dimmable - DALI/DSI/Switch Dim (0-10V dimming available by special request)
/EM	Emergency Version
/IP54	Manufactured with IP54 gasket

- High performance aluminium heat sink
- Slimline design only 52mm
- 100 Degree beam angle
- Tridonic branded control gear

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

DON'T FORGET...
MOUNTING BACKBOARDS
Perfect for mounting into soft ceiling tiles

CALL FOR DETAILS

Lighting Downlights

Eclipse

Elite LED Downlight

IP20/ IP54	CUT-OUT 110MM	VOID DEPTH 99MM	CLASS II DOUBLE INSULATED

Code	Wattage (W)	Lumen Output (Lumen)	Colour (ºK)	System Efficacy (Lumen/W)	Luminaire Efficacy (Lumen/W)
122700	13.2	1110	3000	84	78.1
122702	13.2	1250	4000	95	88.4
122704	21.5	2000	3000	93	86.5
122706	19.4	2000	4000	103	95.8
122708	33.3	3000	3000	90	83.7
122710	28.8	3000	4000	104	96.7

Code	Description
/EM	Emergency Version
/DIM	Dimmable version (SwitchDIM/DALI/DSI?)
/PK	Plaster-in kit for flush mounting

LED

- 40° reflector supplied as standard, 24° option available
- Die-cast twist and lock bezel with interchangeable accessories
- Plaster-in option also available
- Depth under 100mm using optimised passive thermodynamics
- CRI 90 Ra

5 YEAR WARRANTY

Drop Glass Attachment Features

120396	Eclipse White Bezel
120398	Eclipse Chrome Bezel
120400	Eclipse Brushed Aluminium Bezel
120404	Eclipse Halo Drop Glass Bezel

120406	Eclipse Blue Hi-Light Glass
120408	Eclipse Frosted Hi-Light Glass
120410	Eclipse Blue Vertical Halo Glass
120412	Eclipse Frosted Vertical Halo Glass

| 120414 | Eclipse IP54 Scatter Dome Glass |
120416	Eclipse IP54 Clear Glass Glass
120418	Eclipse Centre Etched IP54 Glass
120420	Eclipse Fully Frosted IP54 Glass

Lighting Downlights

Boxx

LED Downlights

IP20	CUT-OUT 140X140	VOID DEPTH 153MM	CLASS II DOUBLE INSULATED

Code	Lumen Output	Luminaire Wattage (W)	Luminaire Efficacy (Lum/W)	Colour (ºK)
122301	1060	9	113.3	3000K
122305	1120	9	119	4000K
122309	2000	19.2	99.8	3000K
122313	2000	19.2	99.8	4000K
122317	3000	27.8	103.7	3000K
122321	3000	27.8	103.7	4000K

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI/ Switch Dim
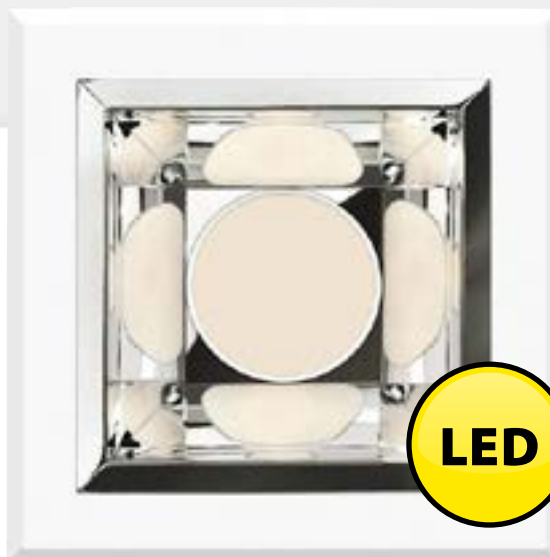
LED

5 YEAR WARRANTY

- Full range of attachments available
- A range of dimming and accessory options
- Efficacy up to 119 lm/tcW
- Highly efficient specular reflector with a DLOR of 96%

Clear attachment

Clear halo attachment

Opal attachment

Opal halo attachment

Lighting Downlights

Corvus

Slimline LED Downlight
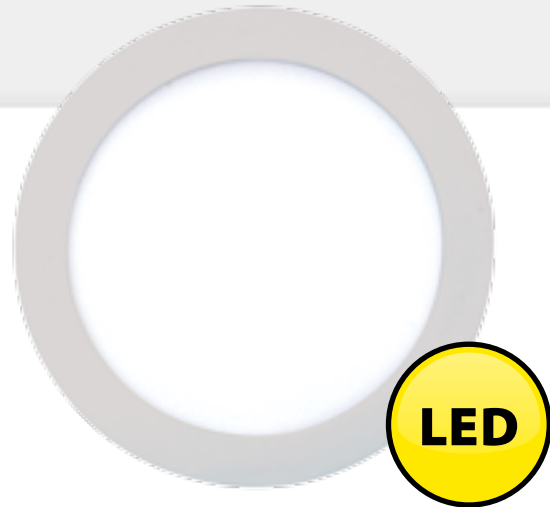
IP20	CUT-OUT 105 / 160 / 210MM	VOID DEPTH 25MM	CLASS II DOUBLE INSULATED

Code	LED (W)	Colour Temp (°K)	Lumen Output (Lumen)
124350	6W	4000	390
124352	12W	4000	860
124354	18W	4000	1480

Code	Description
/D	1-10v Dimmable Ballast
/DALI	DALI/DSI Dimmable Ballast
/M	3 Hour Maintained Emergency
/MZ	3 Hour Maintained DALI Emergency

LED

Arrow

High Output Adjustable LED Downlighter

IP20	CUT-OUT 176MM	VOID DEPTH 102MM	CLASS II DOUBLE INSULATED

Code	Lumen Output (Lumen)	Wattage (W)	Colour (°K)	System Efficacy (Lumen/W)	Luminaire Efficacy (Lumen/W)
122842	1110	13.2	3000	84	78.1
122844	1250	13.2	4000	95	88.4
122846	2000	21.5	3000	93	86.5
122848	2000	19.4	4000	103	95.8
122850	3000	33.3	3000	90	83.7
122852	3000	28.8	4000	104	96.7

Code	Description
/EM	Emergency version
/DIM	Dimmable version (SwitchDIM, DSI, DALI)

- Adjustable LED gimbal
- Tridonic SLE module
- Multi-faceted reflector
- Outstanding DLOR of 93%

LED

5 YEAR WARRANTY

Lighting **Downlights**

Synergy
YOUR RESOURCE FOR SUCCESS

Theta

High Output Fully Adjustable Display Downlight

IP20	CUT-OUT 176MM	VOID DEPTH 165MM	CLASS II DOUBLE INSULATED

Code	Lumen Output (Lumen)	Wattage (W)	Colour (ºK)	System Efficacy (Lumen/W)	Luminaire Efficacy (Lumen/W)
123874	2000	21.5	3000	93	79.7
123876	2000	19.4	4000	103	87.6
123878	3000	33.3	3000	90	76.5
123880	3000	28.8	4000	104	88.4
123882	4000	45.5	3000	88	74.8
123884	4000	38.8	4000	103	87.6

Code	Description
/EM	Emergency version
/DIM	Dimmable version (SwitchDIM, DSI, DALI)

LED

- Fully adjustable LED Scoop
- Dimming and emergency options
- Multi-faceted reflector
- Die-cast body

5 YEAR WARRANTY

Quattro

LED Framelight

Code	Lumen Output (Lumen)	Wattage (W)	Colour (ºK)	System Efficacy (Lumen/W)	Luminaire Efficacy (Lumen/W)
122300	1032	13.2	3000	84	78.1
122304	1163	13.2	4000	95	88.4
122308	1860	21.5	3000	93	86.5
122312	1860	19.4	4000	103	95.8
122316	2790	33.3	3000	90	83.7
122320	2790	28.8	4000	104	96.7

Code	Description
/EM	Emergency version
/DIM	Dimmable version (SwitchDIM, DSI, DALI)
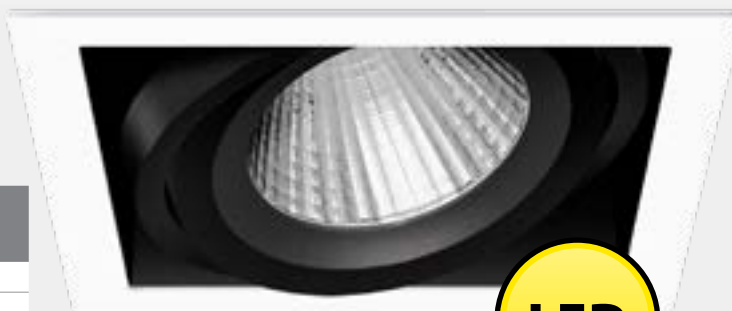
- Adjustable LED framelight
- Multiple colourway options
- Single, twin and triple versions available
- Flush finished frameless version available

LED

5 YEAR WARRANTY

Lighting Downlights

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Highlight

Display LED Downlight

| IP20 | CUT-OUT 87MM | VOID DEPTH 80MM | CLASS II DOUBLE INSULATED |

Code	Lumen Output	Colour (ºK)	Wattage (W)	Efficacy (Lum/W)
123160	920	3000	13	70
123162	940	4000	13	72

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI/Switch Dim

Iota

LED Accent Downlight

LED
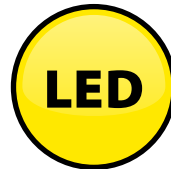
| IP20 | CUT-OUT 62MM | VOID DEPTH 47MM | CLASS II DOUBLE INSULATED |

Code	Lumen Output	Colour (ºK)	Wattage (W)	Efficacy (Lum/W)
123212	750	3000	10	77
123214	770	4000	13	77

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI

Iona

LED Accent Downlight
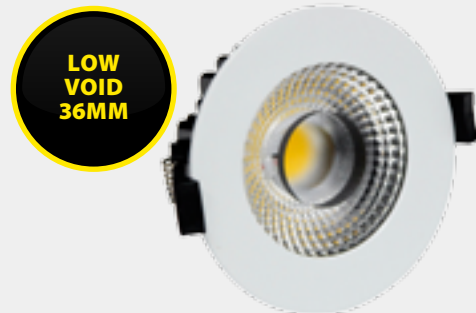
LOW VOID 36MM

| IP20 | CUT-OUT 90MM | VOID DEPTH 36MM | CLASS II DOUBLE INSULATED |

Code	Lumen Output	Colour (ºK)	Wattage (W)	Efficacy (Lum/W)
123216	920	3000	13	70
123218	940	4000	13	70

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI

KuhLED

Ultra Wide-Beam LED Downlight

LED

| IP54 | CUT-OUT 205MM | CLASS II DOUBLE INSULATED |

Code	Description	Colour (ºK)	Power Usage (Watts)	Lifetime L70/F10 (hours)
121690	1600 Lumen LED Downlight	4000	18	50,000
121698	2200 Lumen LED Downlight	4000	25	50,000

Code	Description
/E	3 Hour Emergency Module
/D	Dimmable version
Dimmable versions DALI/DSI/SwitchDIM (0-10V Dimming available to special order)	

Lighting Downlights

OptiLED

Fire Rated LED Downlight System

LED

> All the downlights I have ever installed over the years have been an absolute bane, so what makes you think you can reverse the habit of a lifetime?
>
> Yours have nice large terminal blocks, good spring clips and the lamp retainer ring is easy to remove and easy to put back.
>
> **Mr N - Electrician**

| IP20/IP65 | CUT-OUT FIXED=74MM ADJUSTABLE=84MM IP65 VERSION=71MM | VOID DEPTH 145MM | CLASS I MUST BE EARTHED |

Code	Description	Wattage (W)	Initial Lumen Output (Lumen)	Colour	Colour Temp. (ºK)	Beam Angle (degrees)	Rated Life (Hours)	Replaces
117325	GU10 Lamp	5	450	Warm White	3000	45	30,000	50W 12V Halogen
117327	GU10 Lamp	5	450	Cool White	4000	45	30,000	50W 12V Halogen
117329	GU10 Lamp	5	450	Daylight White	6000	45	30,000	50W 12V Halogen
120760	Fixed Satin Stainless Twist+Lock	-	-	-	-	-	-	-
120762	Fixed White Twist+Lock	-	-	-	-	-	-	-
120764	Fixed Chrome Twist+Lock	-	-	-	-	-	-	-
120772	Adjustable Satin Stainless Twist+Lock	-	-	-	-	-	-	-
120774	Adjustable White Twist+Lock	-	-	-	-	-	-	-
120776	Adjustable Chrome Twist+Lock	-	-	-	-	-	-	-
120766	IP65 Satin Stainless Twist+Lock	-	-	-	-	-	-	-
120768	IP65 White Twist+Lock	-	-	-	-	-	-	-
120770	IP65 Chrome Twist+Lock	-	-	-	-	-	-	-

Code	Description
COMPATIBLE DIMMERS - PLATE SYSTEM	
117440	OptiLED 1G White Plate Dimmer
117441	OptiLED 2G White Plate Dimmer
117442	OptiLED 3G White Plate Dimmer
117443	OptiLED 4G White Plate Dimmer
117475	Box Fix Dimmer Module
COMPATIBLE DIMMERS - GRID SYSTEM	
117477	MK Gridplus Dimmer
117481	White Grid Kit (Allows 117477 to work with the following grid systems:)
	CRABTREE, GET, DETA, MEM, BG, WANDSWORTH, HAMILTON

Code	Description
/EM	Emergency conversion pack

- 30, 60, & 90 minute fire rating
- Twist and lock bezel to IP20 downlights
- Dimmable via Varilight V-Pro dimmers
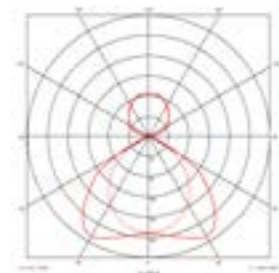- Daylight, cool white and warm white versions

Zeta

Premium LG7 Suspended Up/Down Luminaire

T5

> " The uplight effect on the ceiling looks really classy. "
>
> **Mr M - Electrical Installer**

IP20

CLASS I
MUST BE EARTHED

Code	Description	Nominal Length (mm)	Mounting Centres	Width (mm)	Depth (mm)
120840	Zeta 2x28W/2x54W	1300	1205	182	49
120848	Zeta 2x28W/2x54W	1300	1205	182	49
120844	Zeta 2x35W/2x49W/2x80W	1600	1505	182	49
120852	Zeta 2x35W/2x49W/2x80W	1600	1505	182	49
120856	Zeta 2 wire suspension kit				

Code	Description
DIM	Dimmable - please specify DALI/DSI/Switch Dim/0-10V
/SG	Single T5 Lamp
/LK	Continuously linked luminaire (Please provide layout schematic to enable project - specific quotation)

- Powerful up and down light output ensures compliance with CIBSE LG7 recommendations
- Aesthetically pleasing slim-line construction
- Mounted via wire suspensions
- Ideal for use in areas with no suspended ceiling

CE

Lighting Surface/Suspended

Lance LED

LED Prismatic Surface Mount Luminaire

Code	Length (mm)	Lumen Output (Lumens)	Luminaire Wattage (W)	Luminaire Efficacy (Lum/W)
121966	1250	3780	40	95
121967	1250	5600	60	93
121970	1550	4800	50	96
121974	1550	6800	72	94

4000K as standard

Code	Description
/5000K	LED Daylight colour output
121980	Suspension kit

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI/0-10V
/MW	Integral microwave motion sensor

LED

- Slimline surface luminaire
- Integral sensors available
- Pressed steel chassis coated white
- Attractive polycarbonate diffuser

IP40

CLASS I
MUST BE EARTHED

5 YEAR WARRANTY

Lance T5

T5 Surface Mount Luminaire

Code	Type	Lumen Output (Lumens)	Length (mm)	Luminaire Efficacy (Lum/W)
123350	1 x 28W T5	2144	1250	67
123352	1 x 54W T5	3599	1250	61
123354	2 x 28W T5	4060	1250	65
123356	2 x 54W T5	6790	1250	60
123358	1 x 35W T5	2613	1550	67
123360	1 x 49W T5	3445	1550	65
123362	2 x 35W T5	5040	1550	65
123364	2 x 49W T5	6790	1550	61

Code	Description
/5000K	LED Daylight colour output
121980	Suspension kit

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI/0-10V
/MW	Integral microwave motion sensor

T5

- Slimline surface luminaire
- Integral sensors available
- Pressed steel chassis coated white
- Attractive polycarbonate diffuser

IP40

CLASS I
MUST BE EARTHED

5 YEAR WARRANTY

Lighting Surface/Suspended

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Stylelight

Indirect LG7 Surface/ Suspended Luminaire

IP20

CLASS I MUST BE EARTHED

Code	Description	Overall Length (mm)
T8 Stylelight		
115062	2 x 36W T8 HF	1266
115064	2 x 58W T8 HF	1566
115066	2 x 70W T8 HF	1826
T5 Slotted Stylelight		
115080	2 x 28W T5 HF	1212
115082	2 x 54W T5 HF	1212
115084	2 x 35W T5 HF	1512
115086	2 x 49W T5 HF	1512
T5 Slotted Stylelight		
115100	2 x 35W T5 HF	1512
115102	2 x 49W T5 HF	1512
115120	2 Wire Suspension Kit 1.35 Length	

Code	Description
/EM	Emergency Version
/DIM	Dimmable control gear - please specify DALI/DSI/Switch Dim/0-10V

- Indirect light output ensures compliance with CIBSE LG7 recommendations
- Gloss white powdercoated finish
- Powder coated white body
- Provides upward light contributing to LG7
- Dimmable options also available to special order

Alpha-Linear Cat. 2

Surface Luminaire

IP20

CLASS I MUST BE EARTHED

Code	Description
114970	1 x 36W T8, 1200mm long
114972	2 x 36W T8, 1200mm long
114974	1 x 58W T8, 1500mm long
114976	2 x 58W T8, 1500mm long
114978	1 x 70W T8, 1800mm long
114980	2 x 70W T8, 1800mm long

Code	Description
/EM	Integral emergency conversion
/SUS	Suspension kit

*Available with prismatic diffuser on request

- Aesthetically pleasing chamfered edge body
- Body constructed from white coated steel.
- Leading brand high frequency control gear
- Lift and tilt wedge louvre

Lighting Surface/Suspended

Argon

Track System

LED

IP20

CLASS I
MUST BE EARTHED
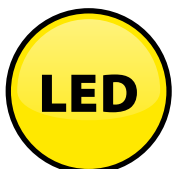
Code	Colour Temp.(°K)	Description	Wattage (W)	Luminaire Output (Lumens)	Luminaire Efficacy (L/W)	Colour	CRI (Ra)	Rated Life (Hours)
137100	3000	1153lm Track Luminaire	12.4	1153	93.0	White/Black	80	50,000
137102	3000	1879lm Track Luminaire	20.6	1879	91.1	White/Black	80	50,000
137104	3000	2762lm Track Luminaire	30.0	2762	92.1	White/Black	80	50,000
137106	3000	4520lm Track Luminaire	48.1	4520	93.9	White/Black	80	50,000
137108	4000	1237lm Track Luminaire	12.4	1237	99.5	White/Black	80	50,000
137110	4000	2000lm Track Luminaire	20.7	2000	96.7	White/Black	80	50,000
137112	4000	2948lm Track Luminaire	29.9	2948	98.6	White/Black	80	50,000
137114	4000	4799lm Track Luminaire	48.2	4799	99.5	White/Black	80	50,000

40° beam angle supplied as standard - 24° / 60° angles available on request.

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Global Trac

3 Circuit Track System

LED
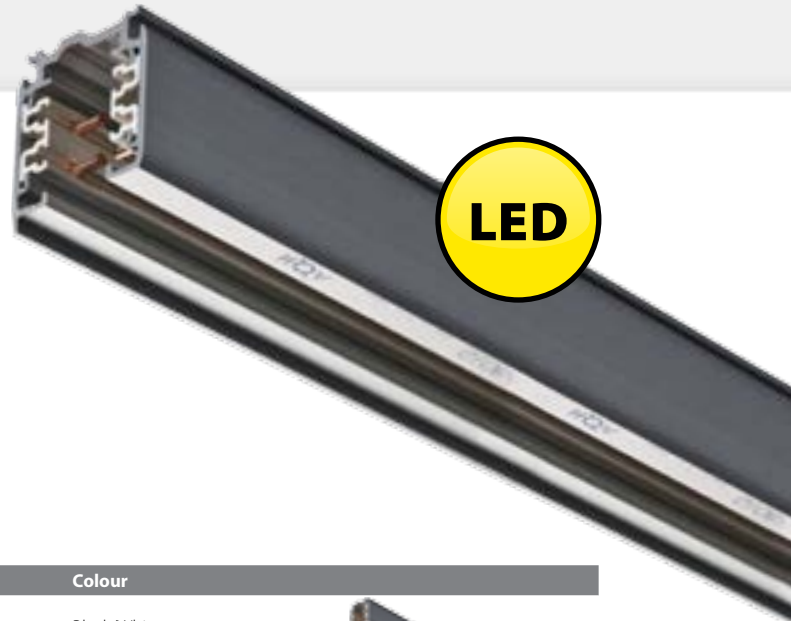
CLASS I
MUST BE EARTHED

Code	Description	Colour	
137040	Three Circuit Track - 2 metre length	Black/White	
137042	Three Circuit Track - 1 metre length	Black/White	
137044	End Feed	Black/White	
137046	Middle Feed	Black/White	
137048	Straight Connector	Black/White	
137050	Flexible Corner Connector	Black/White	
137052	L-Feed	Black/White	
137054	Cross Feed	Black/White	
137056	Right Hand T - Feed	Black/White	
137058	Left Hand T-Feed	Black/White	
137060	End Cap	Black/White	
137070	Bending Tool	N/A	
137062	Recessed box for fix point	Black/White	
137064	Surface mount fix point	Black/White	
137066	Track mounting clip for wire suspension	Black/White	
137068	Track mounting clip for rod suspension	Black/White	

Code	Description
/B	Black finish
/W	White finish

Lighting Track System

Polo

Halo-Effect Bulkhead

Code	Type	Wattage (W)	Diameter (mm)	Depth (mm)
123610	2D - Standard	28	525	122
123612	2D - Emergency	28	525	122
123614	2D - Standard	38	525	122
123616	2D - Emergency	38	525	122
123618	T5 - Standard	40	525	122
123620	T5 - Emergency	40	525	122
123622	1700 Lumen LED - Standard	10	525	122
123624	1700 Lumen LED - Emergency	10	525	122
123626	3150 Lumen LED - Standard	20	525	122
123628	3150 Lumen LED - Emergency	20	525	122
123630	3900 Lumen LED - Standard	20	525	122
123632	3900 Lumen LED - Emergency	20	525	122

LED colour 4000K cool white as standard

Code	Description
/WH	White powder coated rim
/SC	Brushed steel rim
/PC	Polished chrome rim

LED

Code	Description
/DIM	Dimmable - Please specify DALI/DSI/0-10V/SwitchDIM

- Halo backspill feature
- Injection moulded polycarbonate base
- Polycarbonate opal diffuser
- Exclusive metal finishing ring

IP20 **SIZE 525MM DIAMETER** **VOID DEPTH 122MM DEEP** **CLASS I MUST BE EARTHED**

Discus

Decorative Bulkhead

Code	Type	Size (mm) Diameter x Depth	Wattage (W)	Lumen Output (Lumen)	Replaces
123432	LED	435x105	14	1680	28W 2D
123434	LED	435x105	20	2520	38W 2D
123436	LED	525x121	34	3750	55W 2D
123438	2D Fluorescent	435x105	28	-	
123440	2D Fluorescent	435x105	38	-	
123442	2D Fluorescent	525x121	55	-	
123444	PLC Fluorescent	525x121	2x26	-	

LED colour 4000K cool white as standard

Code	Description
/EM	Emergency Version
/DIM	Dimmable version - please specify DALI/DSI/0-10V/Switch-DIM
/MW	Integral microwave motion sensor

Code	Description
/CHR	Optional chrome trim
/RB	Recessing bracket

LED

- Steel base
- Trim available in powder coated white or chrome plated
- Opal polycarbonate diffuser
- Recessing bracket available

IP20 **CLASS I MUST BE EARTHED**

Venus

IP65 Bulkhead

IP65	CLASS I MUST BE EARTHED

Code	Type	Size (mm) Diameter x Depth	Wattage (W)	Lumen Output (Lumen)
123542	LED	325x100	14	1680
123544	2D Fluorescent	270x100	16	-
123546	2D Fluorescent	325x100	28	-

Code	Description
/EM	Emergency version
/DIM	Dimmable control gear - please specify DALI/DSI/0-10V/SwitchDIM
/MW	Integral microwave sensor

LED colour 4000K cool white as standard

- IP65 as standard
- Twist off polycarbonate diffuser
- Available with LED or fluorescent control
- Presence detection options available

Alligator

T5 IP65 Corrosion Resistant Luminaire

IP65	CLASS I MUST BE EARTHED

Code	Description	Wattage (W)	Length x Width x Depth (mm)	Fixing Centres (mm)
117482	Alligator single tube	1 x 28	1210x65x80	670
117486	Alligator single tube	1 x 35	1510x65x80	780
117488	Alligator single tube	1 x 49	1510x65x80	780
117487	Alligator single tube emergency	1 x 35	1510x65x80	780
117489	Alligator single tube emergency	1 x 49	1510x65x80	780
117474	Alligator twin tube	2 x 28	1210x104x80	670
117476	Alligator twin tube	2 x 54	1210x104x80	670
117478	Alligator twin tube	2 x 35	1510 x104x80	780
117480	Alligator twin tube	2 x 49	1510 x104x80	780
117494	Alligator twin tube emergency	2 x 35	1510 x104x80	780
117496	Alligator twin tube emergency	2 x 49	1510 x104x80	780

Sensor/dimmable versions available on request

Lighting Circular Bulkheads/Industrial

For our complete product range visit **www.synergy.gb.net**

Lynx

LEDBAY

> It's great, we get so many customers stop at the reception on their way out and tell us what a massive improvement it is.

LED

CLASS I MUST BE EARTHED

IP20

Code	Description	Power Usage (W)	Output Colour (°K)	Size (mm)	Suggested Discharge Replacement	Efficacy (Lumen/Watt)
121900	7680 Lumen Lynx LEDBAY	80	5000	745x263x82	150W/250W HQI/SON	96
121904	11520 Lumen Lynx LEDBAY	120	5000	745x405x82	150W/250W HQI/SON	96
121908	15360 Lumen Lynx LEDBAY	155	5000	745x405x82	400W HQI/SON	99
121912	19200 Lumen Lynx LEDBAY	190	5000	745x500x82	400W HQI/SON	101
121918	23040 Lumen Lynx LEDBAY	230	5000	745x500x82		100

Code	Description
/E	3 Hour Emergency Module
/D	Daylight dimming/Other dimming control system
/8M Sensor	Microwave occupancy sensor for use up to 8m mounting height
/16M Sensor	Microwave occupancy sensor for use up to 16m mounting height
Please specify DALI/DSI/Switch Dim/Daylight linking for Dimmable options	

- 5 Year warranty
- High efficiency Nichea LED modules
- Ideal for illuminating large areas efficiently
- Replacement for traditional highbay and lowbay luminaires

EXCEEDS PART L2 60 LM/W REQUIREMENT

C€

ECA ETL COMPLIANT

5 YEAR WARRANTY

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

INDUSTRIAL

PROJECT FOCUS

Table Tennis Hall
Luminaire: Lynx LEDBAY
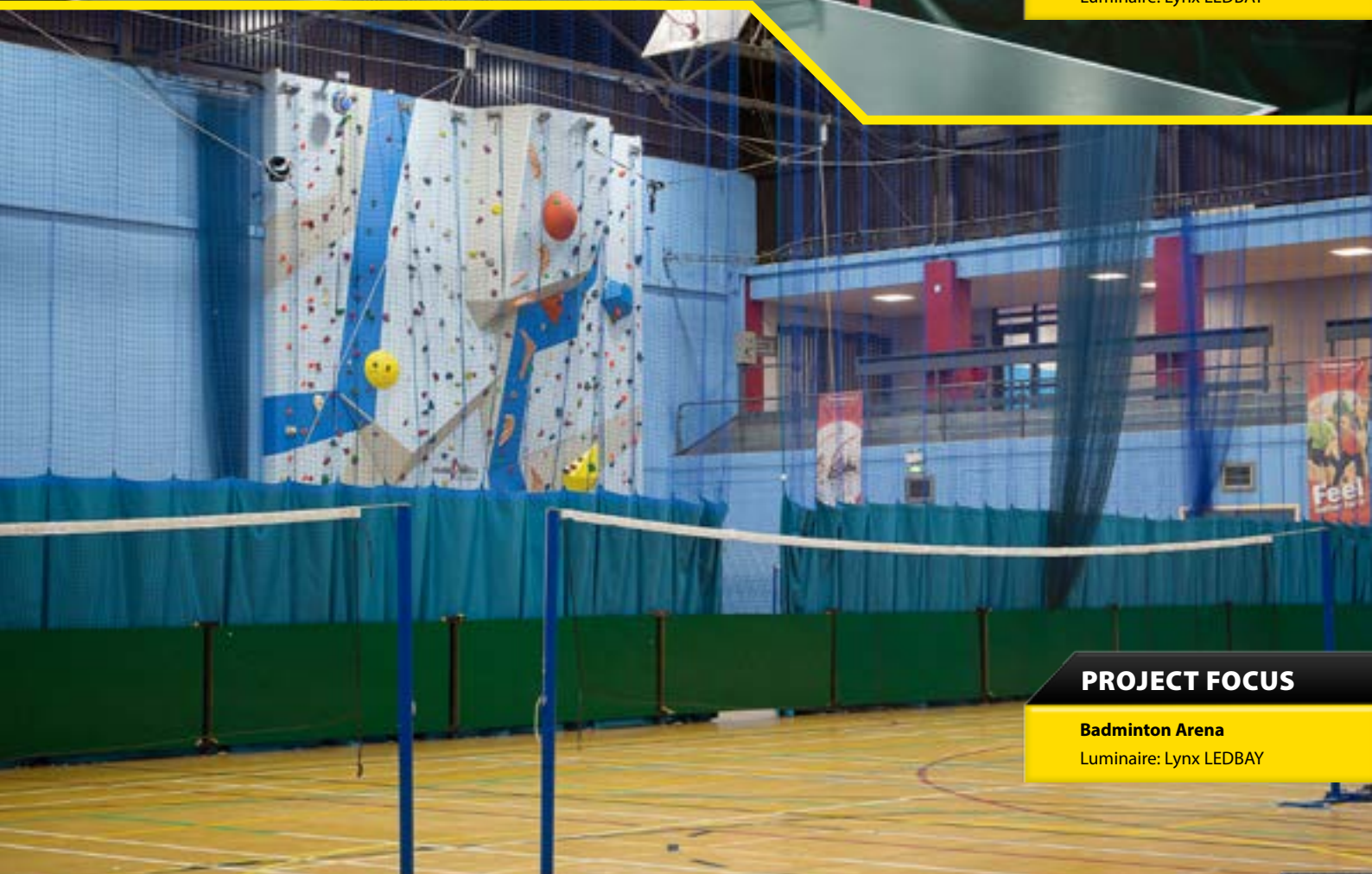
PROJECT FOCUS

Badminton Arena
Luminaire: Lynx LEDBAY

IBEX

IP65 industrial Luminaire

LED

> I like the fact that the opal diffuser gives a very wide spread and you get a good spill of light onto the walls.
>
> **Mr M - Project Manager**
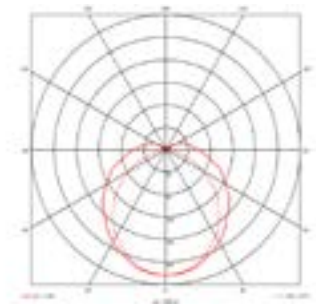
IP65

CLASS I
MUST BE EARTHED

Code	Length	Wattage (W)	Suggested Fluorescent Replacement	Light Output (Lumen)	Output Colour (ºK)	Width/Depth (mm)	Screw Fixing Centres	No. of Diffuser Clips
121444	2ft 670mm	20	2 x 18W	2160	5000	160Wx100D	50x467 mm	3 Pairs
121450	4ft 1270mm	40	2 x 36W	4320	5000	160Wx100D	50x947 mm	5 Pairs
121452	4ft 1270mm	60		6450	5000	160Wx100D	50x947 mm	5 Pairs
121458	5ft 1570mm	50		5400	5000	160Wx100D	50x1140 mm	6 Pairs
121460	5ft 1570mm	70	2 x 58W	7700	5000	160Wx100D	50x1140 mm	6 Pairs
121466	6ft 1870mm	60		6480	5000	160Wx100D	50x1399 mm	7 Pairs
121468	6ft 1870mm	90	2 x 70W	9720	5000	160Wx100D	50x1399 mm	7 Pairs

Code	Description
/E	3 Hour Emergency Module
/8M sensor	Microwave occupancy sensor for use up to 8m mounting height
/C	Corridor Function
/DIM	Dimming control gear
Please specify DALI/DSI/Switch Dim/Daylight linking	

Code	Description
As Standard	Supplied with stainless steel plates for surface mounting without penetrating fitting
As Standard	Hooks provided for suspension applications
121474	Stainless steel clips (Pair)
121476	Suspension hanger (2 Required per fitting)

- IP65 Polycarbonate body
- Opalised diffuser/Stylish white body
- 5 Year warranty
- Suitable for surface mounting or suspension

EXCEEDS PART L2 60 LM/W REQUIREMENT

CE

ECA ETL COMPLIANT

5 YEAR WARRANTY

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Cortez

High Performance T5 Luminaire

IP20

**CLASS I
MUST BE
EARTHED**

T5

Code	Description	Wattage (W)	Length (mm)	Width (mm)	Depth (mm)
125400	High Level T5 Luminaire	4x54 T5	1210	259	104
125402	High Level T5 Luminaire	4x49 T5	1510	259	104
125404	High Level T5 Luminaire	4x80 T5	1510	259	104

Code	Description
/E	Emergency version
/PIR8	8M Programmable PIR (CP EBMPIR-MB)
/PIR15	15M Programmable PIR (CP EBDHS)

Dimmable presence sensors and control gear available on request

Code	Description
/PC	Polycarbonate cover
/WG	Wire guard

• Branded high frequency control gear
• Polycarbonate diffuser/wire guards available

Suitable for a variety of mounting methods:
• Chain suspension
• Lighting trunking
• On to besa boxes

PROJECT FOCUS

Food Processing Facility
Luminaire: Ibex LED

For our complete product range visit **www.synergy.gb.net**

Pro Spot

Emergency Spotlight

LED

ø 50
37
45
18
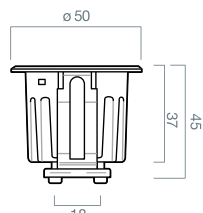
View with downlight rotated 90 degrees

ø 50
~47 max
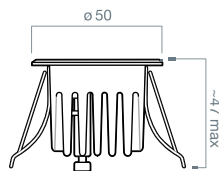
View showing spring clips

204 | 204
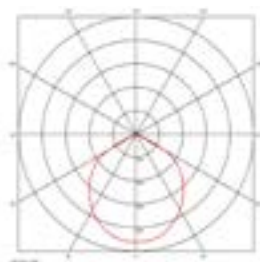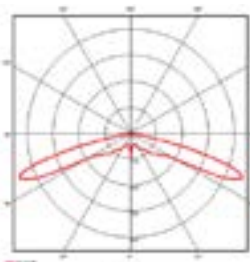
Standard Optics | Open Area Optics | Corridor Optics
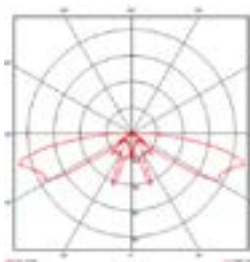
IP30

CUT OUT 44MM

VOID DEPTH 47MM

Code	Description	Optics	Wattage (W)	Lumen Output (lm)	Colour	Cut-Out (mm)
128020	NM3 DALI Self Test/Self Monitoring (Em-Pro type)	Standard	3	150	White	44
128022	NM3 Non-DALI	Corridor or Open Area (Both lenses supplied)	3	162	White	44
128024	NM3 DALI Self Test/Self Monitoring (Em-Pro type)	Corridor or Open Area (Both lenses supplied)	3	160	White	44

- Integral bi-colour status indicator
- Articulated control gear fits through 44mm cut out
- Available with DALI self-test/self-monitoring control gear
- Choose from Standard/Corridor/Open area optics

Downlight with optic fitted

DALI

CE

SELV COMPLIANT

Spacing Information

With Open Area Lens (based on min. 0.5 lux)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to wall (m)
2.0	10.28	4.7
2.5	11.50	5.2
3.0	12.90	3.6
3.5	13.26	2.8
4.0	11.31	1.0

With Corridor Area Lens (based on min. 1 lux)

Mounting Height (m)	Distance Luminaire to Luminaire (m)	Distance Luminaire to wall (m)
2.0	15.65	5.81
2.5	16.67	2.88
3.0	16.80	3.22
3.5	13.35	2.83
4.0	13.02	2.22

Lighting Emergency

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Smart Pro

Self-Contained Emergency Luminaire
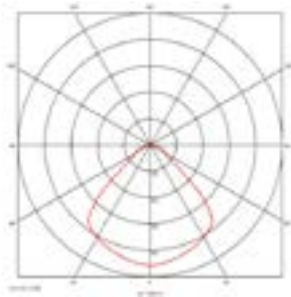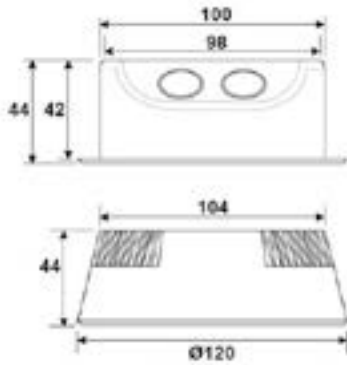
LED

IP40 | CUT OUT 100MM | VOID DEPTH 44MM

Code	Description	Wattage	Lumen Output	Colour	Size (mm)	Cut-Out (mm)
128000	NM3 LED Luminaire Non-auto test	3	130	White	120x45	105
128000/D	NM3 LED Luminaire DALI Self-Test/Self-monitoring (EMPRO type)	3	130	White	120x45	105

- Available with DALI self-test/self-monitoring control gear
- Integral bi-colour status indicator

CAN BE SURFACE MOUNTED OR RECESSED

DALI   CE

Kappa

3W NM3 LED
recessed downlight

- Bi-Colour LED indicator
- Non–maintained led head
- Flexible slim line battery pack
- Discreet design fits through 35mm cutout

IP20

CUT-OUT
35MM

VOID DEPTH
29MM

CLASS II
DOUBLE INSULATED

LED

Code	Description
121930	NM3 3W emergency downlight
121932	M3 3W emergency downlight

Code	Description
/BL	Powdercoated black option

DON'T FORGET...
IN-LINE CONNECTORS
The perfect junction box for these downlights - fits through a 35mm cut-out

CALL FOR DETAILS

Onyx

IP65 emergency surface bulkhead

LED
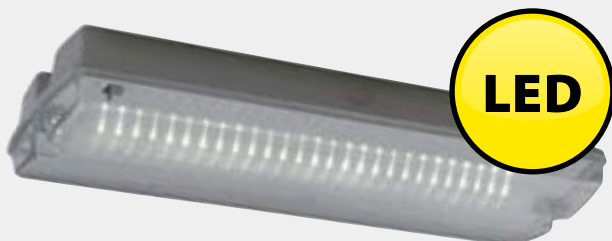
- IP65 Polycarbonate construction
- Supplied with self-adhesive legend kit
- Cost-effective emergency solution
- Surface mounting
- Can be used for exterior applications

IP65

SIZE
352MM X 110MM X 55MM

CLASS I
MUST BE EARTHED

Code	Description	Wattage (W)	Lumen Output (Lumen)	Emergency Type
121512	3W IP65 LED M3 Bulkhead	3	124	M3

Lighting Emergency

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Topaz LED Twinspot

Industrial emergency luminaire

• Robust metal enclosure
• High lumen output
• Adjustable head polycarbonate floodlights
• Eliminates maintenance problems associated with short-life halogen lamps

IP20

CLASS I
MUST BE EARTHED

LED

Code	Description	Wattage (W)	Lumen Output (Lumen)	Colour Temp. (°K)
121510	2 x 3W LED NM3 Twinspot	6	207	6500

Anaconda - exit sign

Slim modern exit sign

• Available with white or silver-grey surround
• Incorporates downward LEDs at base of sign
• Supplied with all legend options arrow down and arrow left right
• Maintained or non-maintained

IP20

CLASS II
DOUBLE INSULATED

LED

Code	Description	Wattage (W)	Colour Temp. (°K)	Emergency Type
121514	White 2.6W Slimline LED Exit Sign	2.6	6500	M3
121516	Silver-Grey 2.6W Slimline LED Exit Sign	2.6	6500	M3

Lighting Emergency

For our complete product range visit **www.synergy.gb.net**

Anaconda - recessed

Emergency exit signlight

| IP20 | CLASS I MUST BE EARTHED |

Code	Description	Wattage (W)	Voltage (V)	Emergency Type
113238	Recessed T5 exit sign c/w Left/Right and Down legend kits	8	240	M3

Code	Dimensions (mm)
Face Panel	365L x 126W x 8D
Cut-out	325L x 115W x 85D
Blade	290L x 160H x 7D

- Includes T5 8W tube
- Can be used as maintained/non-maintained
- Includes arrow down & arrow L-R legends
- White powder coated steel body/ polycarbonate legends

Anaconda - hanging

Emergency exit signlight
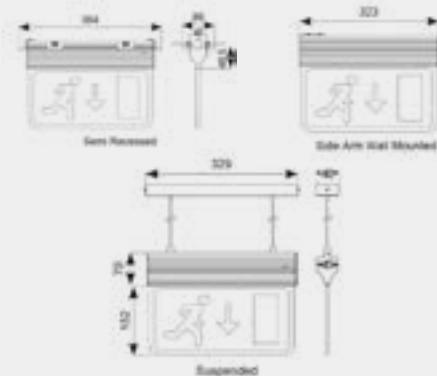
| IP20 | CLASS I MUST BE EARTHED |

Code	Description	Wattage (W)	Colour Temp. (°K)	Emergency Type
113240	Signlight with Left-right legend	2.5	6500	M3
113241	Signlight with down legend	2.5	6500	M3

- Supplied with fixing kits for all 3 mounting options
- Maintained or Non-Maintained
- 3-in-1 design allows suspension, recessing or side-arm wall mounting
- Slim Design

Lighting Emergency

Blok

Recessed exit sign

IP20

CLASS I MUST BE EARTHED

Code	Description	Wattage (W)	Emergency Type
123722	Standard Recessed Exit Sign - M3/NM3	1	M3/NM3
123724	DALI Recessed Exit Sign - M3/NM3	1	M3/NM3

Code	Description
123728	Legend - Arrow Down
123730	Legend - Arrow Left/Right
123732	Legend - Arrow Up

LED

- Maintained or non-maintained
- Double sided legends
- DALI version available
- White powder coated sheet steel body

Maxx

Exclusive exit sign

IP20

CLASS I MUST BE EARTHED

Code	Description	Wattage (W)	Emergency Type
123802	Standard Surface Exit Sign - M3/NM3	1	M3/NM3
123804	DALI Surface Exit Sign - M3/NM3	1	M3/NM3 DALI

Code	Description
123808	Legend - Arrow Down
123810	Legend - Arrow Left
123812	Legend - Arrow Right
123814	Legend - Arrow up

LED

- Maintained or non-maintained
- DALI version available
- Internal MIRO reflector
- Central BESA cable entry point

Lighting Emergency

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Synergy
YOUR RESOURCE FOR SUCCESS

Sharpe

Suspended/surface/ hanging exit sign

LED

IP20

CLASS I
MUST BE EARTHED

Code	Description	Wattage (W)	Emergency Type
123762	Standard Surface Exit Sign - M3/NM3	1	M3/NM3
123764	DALI Surface Exit Sign - M3/NM3	1	M3/NM3 DALI

Code	Description
123768	Mounting Bracket - Ceiling Fix
123770	Mounting Bracket - Wall Fix
123772	Mounting Bracket - End Fix
123774	Suspension Kit
123776	Legend - Arrow Down
123778	Legend - Arrow Left/Right
123780	Legend - Arrow up

- Maintained or non-maintained
- Brushed aluminium body
- Crystal clear acrylic legend panel
- DALI version available

Lighting Emergency

Eight great reasons why many of our luminaires use Tridonic control gear...

Why use Tridonic?

1 5 Year warranty on most components

2 Over 650 inventions and more than 2,100 patents

3 Global presence in 73 countries with 30 sales offices or partners

4 UK technical support office and back-up

5 1,970 Employees

6 Established since 1956

7 New products account for more than 52 % of portfolio

8 Fast-track R+D department with over 300 employees keeps apace with developments in the LED market

"At Tridonic there is never any unfinished business. Or unsolved problems. We devote all our energy to your light."

www.tridonic.com

For our complete product range visit **www.synergy.gb.net**

Emergency Lighting Systems Explained

Different types of emergency lighting are often confused...

Maintained

The luminaire works in exactly the same way as a standard mains version, except when the power fails, it switches to battery powered emergency output.

Non-Maintained

The luminaire only comes on in the event of a power failure as an emergency light source. The continual mains supply is only used to charge the battery.

Sustained

This is where a lamp separate to the main lamp provides the emergency light source. The purpose here is to minimise any possibility of emergency lamp failure, as the 'sustained' lamp is only used in emergency mode. This will only be relevant on a maintained emergency luminaire.

DALI Emergency

We can also offer the option of DALI-Emergency controlled luminaires, utilising Tridonic or Mackwell DALI Emergency gear. This system allows greater control and detailed monitoring and reporting of emergency lighting. We can include this technology in our range of lighting or as a conversion service to other luminaires.

Central Battery

This is where the battery power for emergency lighting is situated at one, central point and fed to all relevant luminaires in the event of a power failure, whether they are maintained or non-maintained. All emergency luminaires will have a charge healthy LED indicator, which shows that the battery is being charged while there is a mains feed. When the power fails, the LED will switch off and the lamp will be illuminated by the battery.

Call **Synergy** now on **0845 381 0845** or email **sales@synergy.gb.net**

Recommended Emergency Luminaire Locations

Exterior Lighting
Leading evacuees away
from final exit

Final Exit

Fire Alarm Call Point

Change of Direction

Exit Signs

Emergency Luminaires

Emergency Exterior Luminaires

INTERSECTION

Change of Level

PLANT ROOM

LIFT

Fire Extinguishers

*TOILET

FIRE ESCAPE

*Exceeding 8 sq/m or without borrowed light
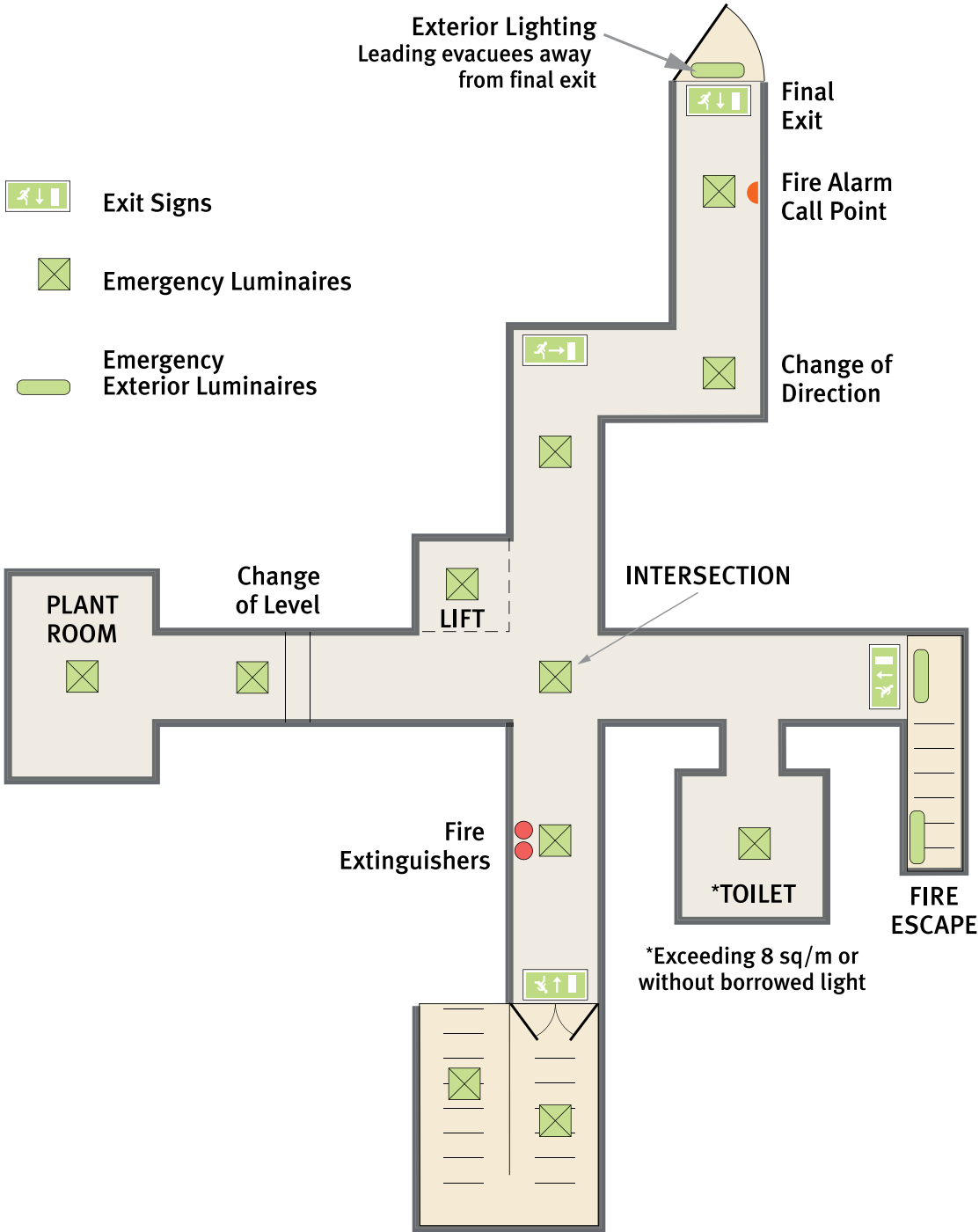
Technical Recommended Emergency Luminaire Locations

Light Level Guidance

The CIBSE (Chartered Institute of Building Services Engineers) produces a Code for Interior Lighting which gives lighting requirements for areas.

This is also replicated in BS EN 12464-1:2002 Light and lighting - Lighting of work places - Part 1: Indoor work places

Light Levels Appropriate To Various Tasks And Areas

Illuminance (lux)	Activity	Area
100	Casual seeing	Corridors, changing rooms, stores
150	Some perception of detail	Loading bays, switch rooms, plant rooms
200	Continuously occupied	Foyers, entrance halls, dining rooms
300	Visual tasks moderately easy	Libraries, sports halls, lecture theatres
500	Visual tasks moderately difficult	General offices, kitchens, laboratories, retail shops
750	Visual tasks difficult	Drawing offices, meat inspection, chain stores
1000	Visual tasks very difficult	General inspection, electronic assembly, paintwork, supermarkets
1500	Visual tasks extremely difficult	Fine work and inspection, precision assembly
2000	Visual tasks exceptionally difficult	Assembly of minute items, finished fabric inspection

Technical Light Level Guidance

Light Levels Appropriate To Specific Building Type

Extracts from CIBSE Code for Lighting Part 2 (2002)

Offices

Illuminance (lux)	Area
300	Filing, copying etc.
500	Writing, typing, reading, data processing
750	Technical drawing
500	CAD workstations
500	Conference and meeting rooms
300	Reception desk
200	Archives

Educational

Illuminance (lux)	Area
300	Classrooms
750	Technical drawing room
300	Computer practice rooms

Healthcare - Wards

Illuminance (lux)	Area
100	General lighting
300	Reading lighting
300	Simple examinations
1000	Examination and treatment

Hotels and Restaurants

Illuminance (lux)	Area
500	Kitchen
-	Restaurant, dining room, function room
200	Self service restaurant
500	Conference rooms

Residential

Illuminance (lux)	Area
100 - 300	Lounge
150 - 300	Kitchens
150	Bathrooms
100	Toilets

Retail Premise

Illuminance (lux)	Area
300	Sales area
500	Till area
500	Wrapper table

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Technical Light Level Guidance

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Lighting Jargon Explained

BREEAM Rating

Building Research Establishment's Energy Assessment Method

An environmental rating system that sets the standard for best practice in assessing how sustainable a building is. There are over 240,000 buildings certified with a BREEAM assessment rating since the scheme was launched in 1990. BREEAM uses established benchmarks to evaluate design, construction and operation and also encourages the use of low carbon, low impact design that minimises the energy demands on a building.

Candela

Cd
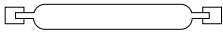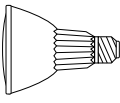
The SI unit of luminous intensity. One candela is the luminous intensity, in a given direction, of a source that emits monochromatic radiation of frequency 540×1012 Hz and that has a radiant intensity in that direction of 1/683 watt per steradian.

CRI

Colour Rendering Index

The measurement of the ability of a light source to reproduce the colour's vibrancy accurately compared to natural light. A lamp with low CRI will distort the appearance of colours, and make them appear `dull`. The index ranges from 0 to 100 the best being 80 and above. A light's CRI can only be compared to another light if they have the same colour temperature (explanation below). High CRI light sources should be used where it is important to render colours well.

CCT

Correlated colour temperature

Whether a light source appears 'cool' or 'warm' in colour. Colour temperature is measured in degrees Kelvin (^{0}K). Light sources with a warm appearance are more `orange`, have a CCT of 2700-3000K, and are considered appropriate for domestic settings. Cool white (or Neutral) sources have a CCI of 4000K. Sources of around 6000K-6500K are termed `daylight` in colour. Very cool temperatures of 6000K plus can start to look almost blue-white.

COB

Chip on Board

A technology of LED packaging for LED light. When multi LED chips are packaged together as one lighting module and lit up they seem to look like a single LED.

DALI

Digital Addressable Lighting Interface

A protocol for lighting controls and dimming agreed by the technical standard IEC 62386 and agreed on by most major manufacturers. DALI-compliant components (ballasts, drivers sensors, controllers, switches, etc.) from different manufacturers can be controlled together within the same installation. With DALI, design and user flexibility are dramatically improved compared with non-dali systems.

Illuminance

The luminous flux incident on unit area of a surface. It is measured in lux

kWh

Kilowatt-hour

A unit of energy equal to 1,000 Watt-hours. So what a 1,000 Watt appliance would use in one hour, or what a 1W appliance would use in 1,000 hours. Electricity bills use Kilowatt-hours to calculate the applicable charge.

Luminous efficacy

Efficacy = Lumen / Watts

How effective a light source is at converting it`s input power into light output. The efficacy is measured in lumens produced divided by the power input (Watts), and is the ratio of luminous flux to power.

Luminous Flux

The amount of light flowing from a light source, and is measured in Lumens.

Lumen

The unit used to measure how bright a light source is. The higher the lumen output, the brighter the light source.

Uniformity

Shows how even the lighting and is the relationship between the lowest lux level and the highest lux level in a given room or area. Shown as a percentage, this relates to both light intensity and luminance.

LOR

Light Output Ratio

The percentage of light emitted from a light source that actually leaves the luminaire and enters the lit environment. An LOR of 70 means 30 per cent of the light from lamp is lost inside the reflector and light fitting. Also known as DLOR (Downward Light Output Ratio).

Luminance

Defined as the amount of light reflected from a point or surface in a specific direction and measured in candela per metre^2.

Luminous Intensity

The intensity of light in a given direction, defined as a lumen value per solid angle. The unit of measurement is the Candela.

Lux

The SI unit of illuminance, equal to one lumen per square metre.

PIR

Passive Infrared
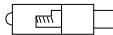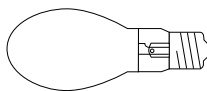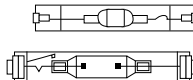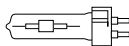
A PIR sensor is an electronic sensor that measures infrared (IR) light that radiates from objects within its field of view. It can detect heat from objects that is undetectable by humans. The use of PIR sensors are the foremost technology used for presence and absence detection, so that lights turn on and off dependent on whether there are people there or not.

Technical **Lighting Jargon Explained**
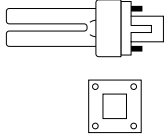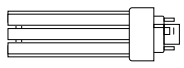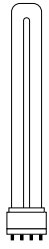
Lamp Data

This table shows nominal lamp data for comparison purposes only.
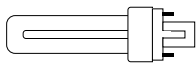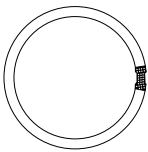
Description	Wattage (W)	Cap	Angle (Degrees)	Dimension (mm)	Lumens (lm)	Intensity (col)	Colour (ºk)	Average Life (hours)
Low Voltage								
	20	GY6.35	-	44 L	320	-	3000	4000
	35	GY6.35	-	44 L	600	-	3000	4000
	50	GY6.35	-	44 L	930	-	3000	4000
	20	GX5.3	38	51 ø	-	780	3200	4000
	35	GX5.3	10	51 ø	-	8000	3200	4000
	35	GX5.3	24	51 ø	-	3100	3200	4000
	35	GX5.3	38	51 ø	-	1500	3200	4000
	50	GX5.3	10	51 ø	-	12500	3200	4000
	50	GX5.3	24	51 ø	-	4400	3200	4000
	50	GX5.3	38	51 ø	-	2200	3200	4000
	50	GX5.3	60	51 ø	-	1100	3200	4000
	50	G53	8	111 ø	-	20000	3000	3000
	50	G53	234	111 ø	-	4000	3000	3000
	65	G53	8	111 ø	-	45000	3000	4000
	65	G53	24	111 ø	-	8500	3000	4000
	100	G53	8	111 ø	-	48000	3000	3000
	100	G53	24	111 ø	-	8500	3000	3000
Metal Halide								
	20	G8.5	-	85 L	1700	-	3000	6000
	35	G8.5	-	85 L	3300	-	3000	8000
	35	G8.5	-	85 L	3300	-	4200	8000
	70	G8.5	-	85 L	6600	-	3000	3000
	70	G8.5	-	85 L	6600	-	4200	8000
	70	E27	-	141 L	4900	-	4300	9000
	150	E27	-	139 L	10500	-	4300	9000
	250	E40	-	226 L	19000	-	4300	15000
	400	E40	-	284 L	35000	-	4300	15000
	70	Rx7s	-	114 L	5000	-	3000	9000
	70	Rx7s	-	114 L	5500	-	4200	9000
	150	Rx7s	-	132 L	11000	-	3000	9000
	150	Rx7s	-	132 L	11250	-	4200	9000
	250	Fc2	-	162 L	20000	-	3000	15000
	250	Fc2	-	162 L	20000	-	4200	15000
	35	GX8.5	24	111 ø	-	10000	3000	8000
	70	GX8.5	-	111 ø	-	-	3000	8000
Metal Halide (Ceramic Base)								
	35	G12	-	100 L	3300	-	3000	8000
	70	G12	-	100 L	6600	-	3000	8000
	70	G12	-	100 L	6600	-	4200	8000
	150	G12	-	100 L	14000	-	3000	8000
	150	G12	-	110 L	12700	-	4200	8000

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Description	Wattage (W)	Cap	Angle (Degrees)	Dimension (mm)	Lumens (lm)	Intensity (col)	Colour (ºk)	Average Life (hours)
Mains Voltage Halogen								
	50	GZ10	25	51 ø	-	1250	2900	2000
	50	GZ10	40	51 ø	-	800	2900	2000
	200	R7s	-	141 L	3200	-	2900	2000
	300	R7s	-	141 L	5000	-	2900	2000
Mains Voltage Halogen (Par 20)								
	50	E27	10	64.5 ø	-	3000	2900	2000
	50	E27	30	64.5 ø	-	1000	2900	2000
Mains Voltage Halogen (Par 30)								
	75	E27	10	97 ø	-	6900	2800	2000
	75	E27	30	97 ø	-	2200	2800	2000
	100	E27	10	97 ø	-	9000	2900	2000
	100	E27	30	97 ø	-	3000	2900	2000
Fluorescent (4 Pin)								
	10	G24q-1	-	118 L	600	-	3000	10000
	10	G24q-1	-	118 L	600	-	4000	10000
	13	G24q-1	-	140 L	900	-	3000	10000
	13	G24q-1	-	140 l	900	-	4000	10000
	18	G24q-1	-	152 L	1200	-	3000	10000
	18	G24q-1	-	152 L	1200	-	4000	10000
	26	G24q-1	-	173 L	1800	-	3000	10000
	26	G24q-1	-	173 L	1800	-	4000	10000
Fluorescent								
	60	2G8	-	167 L	4000	-	3000	10000
	60	2G8	-	167 L	4000	-	4000	10000
	85	2G8	-	208 L	6000	-	3000	10000
	85	2G8	-	208 L	6000	-	4000	10000
	120	2G8	-	285 L	9000	-	3000	10000
	120	2G8	-	285 L	9000	-	4000	10000
	18	2G11	-	227 L	1200	-	3000	10000
	18	2G11	-	227 L	1200	-	4000	10000
	24	2G11	-	322 L	1800	-	3000	10000
	24	2G11	-	322 L	1800	-	4000	10000
	36	2G11	-	417 L	2900	-	3000	10000
	36	2G11	-	417 L	2900	-	4000	10000
	40	2G11	-	542 L	3500	-	3000	10000
	40	2G11	-	542 L	3500	-	4000	10000
	55	2G11	-	542 L	4800	-	3000	10000
	55	2G11	-	542 L	4800	-	3000	10000
	80	2G11	-	542 L	6000	-	3000	10000
	80	2G11	-	572 L	6000	-	4000	10000

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Technical Lamp Data

Lamp Data

| Description	Wattage (W)	Cap	Angle (Degrees)	Dimension (mm)	Lumens (lm)	Intensity (col)	Colour (ºk)	Average Life (hours)
Fluorescent								
	9	G23	-	167 L	600	-	3000	8000
	9	G23	-	167 L	600	-	4000	8000
	32	GX24q-3	-	142 L	2400	-	3000	10000
	32	GX24q-3	-	142 L	2400	-	4000	10000
	42	GX24q-4	-	163 L	3200	-	3000	10000
	42	GX24q-4	-	163 L	3200	-	4000	10000
	57	GX24q-5	-	197 L	4200	-	3000	10000
	57	GX24q-5	-	197 L	4200	-	4000	10000
	70	GX24q-6	-	235 L	5200	-	3000	10000
	70	GX24q-6	-	235 L	5200	-	4000	10000
	8	G5	-	288 L	450	-	2700	20000
	8	G5	-	288 L	450	-	4000	20000
	14	G5	-	549 L	1200	-	3000	20000
	14	G5	-	549 L	1200	-	4000	20000
	24	G5	-	549 L	1750	-	3000	20000
	24	G5	-	549 L	1750	-	4000	20000
	28	G5	-	1149 L	2600	-	3000	20000
	28	G5	-	1149 L	2600	-	4000	20000
	35	G5	-	1449 L	3300	-	3000	18000
	35	G5	-	1449 L	3300	-	4000	18000
	49	G5	-	1449 L	4300	-	3000	18000
	49	G5	-	1449 L	4300	-	4000	18000
	36	G13	-	1200 L	3350	-	3000	20000
	36	G13	-	1200 L	3350	-	4000	20000
	54	G5	-	1149 L	4450	-	3000	20000
	54	G5	-	1149 L	4450	-	4000	20000
	58	G13	-	1500 L	5200	-	3000	20000
	58	G13	-	1500 L	5200	-	4000	20000
	80	G5	-	1449 L	6150	-	3000	18000
	80	G5	-	1449 L	6150	-	4000	18000
	40	2GX13	-	300 L	3300	-	3000	20000
	40	2GX13	-	300 L	3300	-	4000	20000
	55	2GX13	-	300 L	4400	-	3000	20000
	55	2GX13	-	300 L	4400	-	4000	20000

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Dimming Systems Explained

It`s important to understand the differences between different dimming conventions in order to correctly specify any dimming installation.

DALI

Digitally Addressable Lighting Interface

DALI is a recognised standard employed by all ballast manufacturers that offer DALI ballasts. This system assigns an individual address to each luminaire i.e. 001, 002, 003 and so on, allowing individual control of each luminaire.
All luminaires can be controlled from a central desktop PC, and can be manually over-ridden at a wall switch, or can be used in conjunction with a daylight or occupancy sensor.

DALI can offer a two way communication between the luminaire and the PC which provides valuable information and reports such as operating status of individual luminaires. In addition to the normal mains wiring, each DALI driver or ballast needs to be connected via a bus pair, which is normally an extra low voltage cable run to every luminaire and control point in the system.

DSI

Digital Series Interface

DSI is a more controllable version of digital dimming. This enables the user to group luminaires, operate daylight linked dimming and other controllable options. DSI is a Tridonic name, and can be set up with a variety of control options and controllers, some offered by other manufacturers designed purely to work with the DSI ballast. DSI ensures that there are no issues with interference from the switching and the dimming of the luminaire which can affect switch on. DSI is wired using a dimming pair, run around to each luminaire in the circuit.

Sample connection diagram for a DALI or DSI ballast or driver:
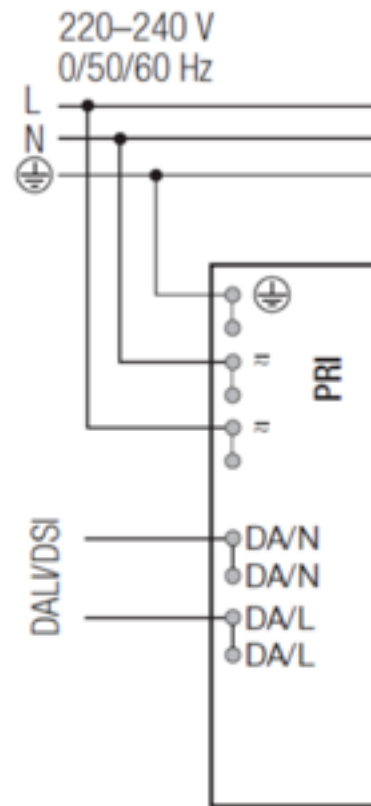
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Analogue Dimming

Analogue dimming is also known as 1-10v dimming. This is because the ballast produces a 1-10v DC supply that can be increased or decreased by a remote potentiometer, which can be either rotary or a slider control. This DC supply can be increased or decreased by the switch to affect the resistance and hence the amount that the lamp is dimmed. Analogue dimming also requires a separate dimming pair to be run from the potentiometer to each luminaire in the circuit.

Sample connection diagram for a 1-10V system:
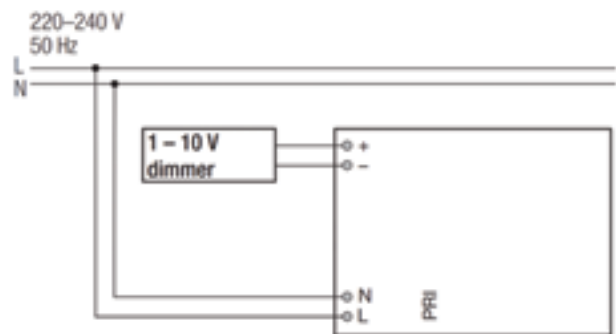
Switch Dim/Touch Dim

This is the simplest option for digital dimming and is operated via a 'push to make' or retractive switch, which is then wired to each luminaire in the circuit via a 4 core cable consisting of switched live, neutral, earth and permanent live. The switch controls the switching on and off of the luminaire, and also the dimming. When the switch is pressed and held it will dim down. Another press and hold will dim back up.
A momentary push will switch off and also bring back on. There are no issues with interference from the switching and the dimming of the luminaire which can affect switch on.

Sample connection diagram for a Switch-Dim system:
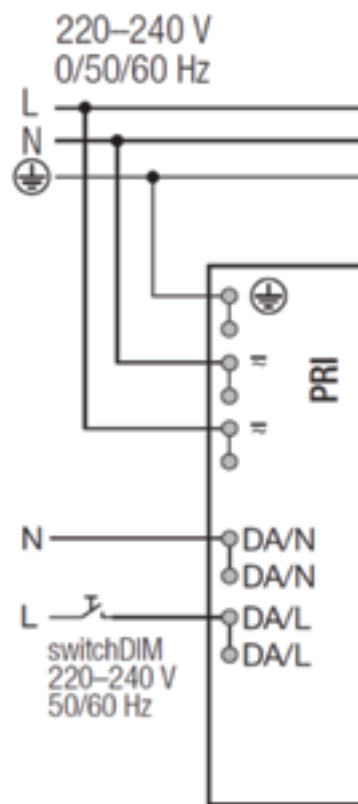
Technical Dimming Systems Explained

IP Rating Information

As an international standard, IP Ratings describe the environmental protection that a product has from particles and liquids. Each IP rating consists of two numbers: the first refers to 'particulate' protection and the second to 'liquids, as follows

	1st Digit Protection of ingress of solids	2nd Digit Protection of ingress of liquids
0	No protection	No protection
1	Protected against solid objects over 50mm (e.g. hands, large tools)	Protected against vertically falling drops of water
2	protected against solid objects over 12mm (e.g. fingers, large tools)	Protected against direct sprays of water up to 15 degrees from vertical
3	Protected against solid objects ovee 2.5mm (e.g. wire, small tools)	Protected against direct sprays of water up to 60 degrees from vertical
4	Protected against solid objects over 1mm (e.g. wires)	Protected from direct sprays of water from any direction, limited ingress permitted
5	Limited ingress against dust ingress	Protected against water jets from any direction, limited ingress permitted
6	Total protection against dust ingress	Protected against high pressure water jets from any direction, limited ingress permitted
7	-	Protected against full immersion between 15cm and 1 metre in depth
8	-	Protected against long periods of full immersion under pressure
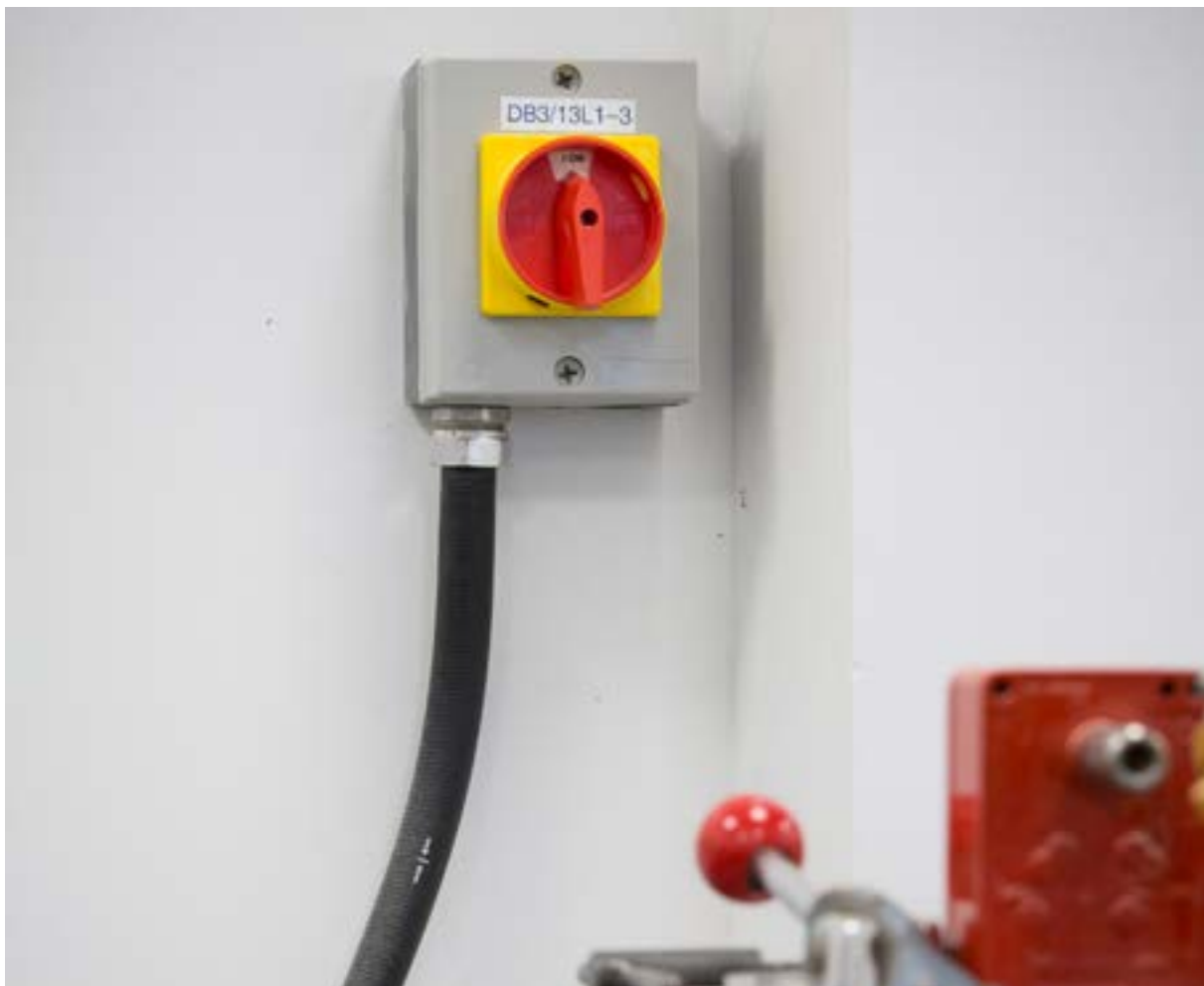
This information is provided for guidance purposes only, and it is the responsibility of the user to verify the accuracy of this information before using it within any design. Synergy cannot be held liable in any way where this information is used within a design of any sort

Warranty Statement

1. Synergy warrants all fixtures and luminaires supplied to be free from material defects and defective workmanship during the specified warranty period.

2. At the discretion of Synergy, faulty products that are returned in accordance with the terms of this warranty will be repaired or replaced and returned to our customer free of charge.

3. The warranty period commences on date of invoice and is dependent on the individual type and specification of the product as follows:

3.1. Fluorescent Luminaires - 1 year

3.2. Metal Halide Luminaires - 1 year

3.3. LED Emergency Luminaires - 3 years (1 year on batteries)

3.4. LED Luminaires - Standard LED Warranty - 3 years

3.5. LED Luminaires - 5 Year LED Warranty - 5 years

   (Note: The Synergy 5 year LED warranty is indicated by the 5 year warranty icon on the individual product specification sheet.
   If this icon is not present, the warranty is a standard 3 year warranty)

3.6. All other products - 1 year

4. The warranty is offered exclusively to the original purchaser of the luminaire and is subject to the correct installation, operation, testing and maintenance of the product in accordance with associated literature, current legislation and design intentions.

5. In no event shall Synergy be liable for any loss of profits, business, revenue, anticipated savings, special indirect or consequential losses caused by a failed product, even if foreseeable by or in the contemplation of the company.

6. All warranty claims must be logged and products returned (at customer's cost) to our customer service department within 30 days of the manifestation of a perceived fault along with proof of purchase. Synergy shall not be liable for any cost of removal or reinstallation pertaining to the defective product and such cost, if any, shall be borne exclusively by the purchaser.

7. The validity of this warranty may be affected if a customer account is trading outside our terms and conditions of sale.

8. All claims for product damage must be reported to our Customer Service department within 24 hours of delivery and the delivery must be signed for as damaged on the Proof of Delivery. Lamps are only covered for damage reported in accordance with this condition.

9. Excluded from the warranty are defects due to accidental damage, misuse, misapplication, storage damage, negligence and acts of God. Warranty is void if any modifications to the product are made or warranty seals broken. Synergy does not warrant that any goods supplied are fit for purpose

10. The warranty period is based on a burning period of 4,000 hours per year and adequate records of operating/testing history must be kept available for inspection. Relative humidity, ambient temperature and ingress protection values must not be exceeded.

11. LED product will only be considered defective for the purposes of this warranty if it fails to emit 70% or more of its specified lumen output value and/or more than 10% of the individual LEDs comprised in that product fail to emit any light at all.

12. Synergy reserves the right to make the final decision on the validity of any claim.

Statutory warranty

Statutory warranty claims are unaffected by this guarantee and shall apply independently and in parallel.

Technical Warranty Statement

Technical Synergy Terms of Trading

1 Business customers and consumers

1.1 Some of these terms apply to consumers only; some apply to business customers only. Those terms are marked as such.

1.2 All other terms apply to all customers.

1.3 You are classified as a business customer if you indicate to us that the goods supplied by us will be used in the course of your business or if you use the goods in the course of your business.

1.4 If you are not a business customer, you are a consumer. You have certain statutory rights as a consumer, which are not affected by these terms. Contact your local trading standards office for more information. Words in italic type are legal words which clarify, rather than alter, the meaning of the relevant clause.

2 Price

2.1 The price quoted excludes VAT (unless otherwise stated). VAT will be charged at the rate applying at the time of delivery.

2.2 Our quotations lapse after 30 days (unless otherwise stated).

2.3 The price quoted excludes delivery (unless otherwise stated).

2.4 Business customers only: unless otherwise stated, the price quoted to business customers is an illustrative estimate only and the price charged will be our price current at the time of delivery.

2.5 Business customers only: rates of tax and duties on the goods will be those applying at the time of delivery.

2.6 Business customers only: at any time before delivery we may adjust the price to reflect any increase in our costs of supplying the goods.

3 Delivery

3.1 All delivery times quoted are estimates only.

3.2 If we fail to deliver within a reasonable time after the quoted delivery time, you may (by informing us in writing) cancel the contract, however:

3.2.1 you may not cancel if we receive your notice after the goods have been dispatched; and

3.2.2 if you cancel the contract, you can have no further claim against us under that contract.

3.3 If you accept delivery of the goods after the estimated delivery time, it will be on the basis that you have no claim against us for delay (including indirect or consequential loss, or increase in the price of the goods).

3.4 We may deliver the goods in instalments. Each instalment is treated as a separate contract.

3.5 We may decline to deliver if:

3.5.1 we believe that it would be unsafe, unlawful or unreasonably difficult to do so; or

3.5.2 the premises (or the access to them) are unsuitable for our vehicle.

4 Risk

4.1 The goods are at your risk from the time of delivery.

4.2 Delivery takes place either:

4.2.1 at our premises (if you are collecting them or arranging carriage); or

4.2.2 at your premises or address specified by you (if we are arranging carriage).

4.3 You must inspect the goods on delivery. If any goods are damaged or not delivered, you must write to tell us within five days of delivery or the expected delivery time. You must give us (and any carrier) a fair chance to inspect the damaged goods.

5 Stated Quantities / Durations

5.1 Some items sold by the Supplier are sold by weight based upon the Supplier's experience and knowledge that those items when sold by weight will equal a certain quantity. In cases where a Purchaser orders a quantity of such items which are sold by weight the Supplier gives no guarantee or warranty that the precise number of items will be supplied.

5.2 Many products are supplied to the Supplier by manufacturers in boxed quantities. The Supplier gives no guarantee of warranty that such quantities are accurate and accepts no responsibility for any discrepancies. Any box quantities stated are approximate and may change without notice.

5.3 The manufacturers of many lamp products sold by the Supplier quote a lamp life duration. The Supplier gives no guarantee of this lamp life duration.

6 Payment terms

6.1 You are to pay us in cash or in cleared funds on or prior to delivery, unless you have an approved credit account.

6.2 Business customers only: If you have an approved credit account, payment is due no later than 30 days after the end of the month in which the invoice is raised, unless otherwise agreed in writing.

6.3 If you fail to pay us in full on the due date we may:

6.3.1 suspend or cancel future deliveries;

6.3.2 cancel any discount offered to you;

6.3.3 **Business customers only:** charge you interest at the rate set under s.6 of the Late Payment of Commercial Debts (Interest) Act 1998;

a. calculated (on a daily basis) from the date of our invoice until payment;

b. before and after any judgment (unless a court orders otherwise);

6.3.4 Consumers only: charge you interest at a rate equivalent to the rate set for business debts under s.6 of the Late Payment of Commercial Debts (Interest) Act 1998;

6.3.5 claim fixed sum compensation from you under s.5A of that Act to cover our credit control overhead costs; and

6.3.6 recover (under clause 5.8) the cost of taking legal action to make you pay.

6.4 If you have an approved credit account we may withdraw it or reduce your credit limit or bring forward your due date for payment. We may take any of these actions at any time and without notice.

6.5 Business Customers only: you do not have the right to set off any money you may claim from us against anything you may owe us.

6.6 Consumers only: you may only set off money you claim from us against money you owe us with our written agreement and on such terms as we may state.

6.7 While you owe money to us, we have a right to keep any property we may hold of yours until you have paid us in full (a lien).

6.8 You are to indemnify us in full and hold us harmless from all expenses and liabilities we may incur (directly or indirectly and including finance costs, legal costs on a full indemnity basis and the costs of instructing a debt collection agency to recover a debt due to us if any) following any breach by you of any of your obligations under these terms.

6.9 Consumers only: clause 5.8 means that you are liable to us for losses we incur because you do not comply with these terms. We may claim those losses from you at any time and if we have to take legal action we will ask the court to make you pay our legal costs.

7 Title

7.1 Consumers only: your statutory rights are unaffected.

7.2 Business customers only: until you pay all debts you may owe us:

7.2.1 all goods supplied by us remain our property;

7.2.2 you must store them so that they are clearly identifiable as our property;

7.2.3 you must insure them (against the risks for which a prudent owner would insure them) and hold the policy on trust for us;

7.2.4 you may use those goods and sell them in the ordinary course of your business, but not if:

a. we revoke that right (by informing you in writing); or

b. you become insolvent.

7.3 Business customers only: you must inform us (in writing) immediately if you become insolvent.

7.4 Business customers only: if your right to use and sell the goods ends you must allow us to remove the goods.

7.5 Business customers only: we have your permission to enter any premises where the goods may be stored:

7.5.1 at any time, to inspect them; and

7.5.2 after your right to use and sell them has ended, to remove them, using reasonable force if necessary.

7.6 Despite our retention of title to the goods, we have the right to take legal proceedings to recover the price of goods supplied should you not pay us by the due date.

7.7 You are not our agent. You have no authority to make any contract on our behalf or in our name.

Synergy Terms of Trading

8 Warranties

8.1 We warrant that the goods:

    8.1.1 Comply with their description on our acknowledgement of order form; and

    8.1.2 Are free from material defect at the time of delivery (as long as you comply with clause 7.4).

8.2 Business customers only: we give no other warranty (and exclude any warranty, term or condition that would otherwise be implied) as to the quality of the goods or their fitness for any purpose.

8.3 Consumers only: the warranty in clause 7.1 is in addition to your statutory rights and the following limitations of liability are subject to such statutory rights.

8.4 If you believe that we have delivered goods which are defective in material or workmanship, you must:

    8.4.1 inform us (in writing), with full details, as soon as possible; and

    8.4.2 allow us to investigate (we may need access to your premises and product samples).

8.5 If the goods are found to be defective in material or workmanship (following our investigations), and you have complied with those conditions (in clause 7.4) in full, we will (at our option) repair the goods, replace the goods or refund the price.

8.6 We are not liable for any other loss or damage arising from the contract or the supply of goods or their use, even if we are negligent, including (as examples only);

    8.6.1 direct financial loss, loss of profits or loss of use; and

    8.6.2 indirect or consequential loss

8.7 Our total liability to you (from one single cause) for damage to property caused by our negligence is limited to £5,000,000.

8.8 For all other liabilities not referred to elsewhere in these terms our liability is limited in damages to the price of the goods.

8.9 Nothing in these terms restricts or limits our liability for death or personal injury resulting from negligence.

8.10 Nothing in these terms affects or limits our liability for fraudulent misrepresentation.

9 Specification

9.1 If we prepare the goods in accordance with your specifications or instructions you must ensure that:

    9.1.1 the specifications or instructions are accurate;

    9.1.2 goods prepared in accordance with those specifications or instructions will be fit for the purpose for which you intend to use them; and

    9.1.3 your specifications or instructions will not result in the infringement of any intellectual property rights of a third party, or in the breach of any applicable law or regulation.

9.2 Business Customers only: We reserve the right;

    9.2.1 to make any changes in the specifications of our goods that are necessary to ensure they conform to any applicable safety or statutory requirements; and

    9.2.2 to make without notice any minor modifications in our specifications we think necessary or desirable.

10 Return of goods

10.1 We will accept the return of goods from you only:

    10.1.1 by our prior agreement (confirmed in writing);

    10.1.2 on payment of an agreed handling charge, any such charge being at our discretion (unless the goods were defective when delivered) and;

    10.1.3 where the goods are as fit for sale on their return as they were on delivery.

11 Cancellation

11.1 You may not cancel the order unless we agree in writing (and clauses 3.2.2 and 11.2 then apply).

11.2 If the order is cancelled (for any reason) you are then to pay us for all stock (finished or unfinished) that we may then hold (or to which we are committed) for the order.

11.3 We may suspend or cancel the order, by written notice if:

    11.3.1 you fail to pay us any money when due (under the order or otherwise);

    11.3.2 you become insolvent;

    11.3.3 you fail to honour your obligations under these terms.

12 Waiver and variations

12.1 No failure or delay by us in enforcing any of our rights shall constitute a waiver of any of our rights. No waiver shall be effective unless in writing signed by us.

12.2 No variation of these terms is binding unless:

12.2.1 made (or recorded) in writing;

    12.2.2 signed on behalf of each party; and

    12.2.3 expressly stating an intention to vary these terms.

12.3 All orders that you place with us will be on these terms (or any that we may issue to replace them). By placing an order with us, you are expressly waiving any terms you may have to the extent that they are inconsistent with our terms.

13 Force majeure- business customers only

13.1 If we are unable to perform our obligations to you (or able to perform them only at unreasonable cost) because of circumstances beyond our control, we may cancel or suspend any of our obligations to you, without liability.

13.2 Examples of those circumstances include act of God, accident, explosion, war, terrorism, fire, flood, transport delays, strikes and other industrial disputes and difficulty in obtaining supplies.

14 General

14.1 English law is applicable to any contract made under these terms. The English courts have non-exclusive jurisdiction.

14.2 If you are more than one person, each of you has joint and several obligations under these terms.

14.3 If any of these terms are unenforceable as drafted:

    14.3.1 it will not affect the enforceability of any other of these terms; and

    14.3.2 if it would be enforceable if amended, it will be treated as so amended.

14.4 We may treat you as insolvent if:

    14.4.1 you are unable to pay your debts as they fall due; or

    14.4.2 you (or any item of your property) become the subject of:

        a. any formal insolvency procedure (examples of which include receivership, liquidation, administration, voluntary arrangements (including a moratorium) or bankruptcy);

        b. any application or proposal for any formal insolvency procedure; or

        c. any application, procedure or proposal overseas with similar effect or purpose.

14.5 Business customers only: All brochures, catalogues and other promotional materials are to be treated as illustrative only. Their contents form no part of any contract between us and you should not rely on them in entering into any contract with us.

14.6 Business customers only: Any notice by either of us which is to be served under these terms may be served by leaving it at or by delivering it to (by first class post or by fax) the other's registered office or principal place of business. All such notices must be signed.

14.7 No contract will create any right enforceable (by virtue of the Contracts (Rights of Third Parties) Act 1999) by any person not identified as the buyer or seller.

14.8 The only statements upon which you may rely in making the contract with us, are those made in writing by someone who is our authorised representative and either:

    14.8.1 contained in our estimate (or any covering letter) and not withdrawn before the contract is made; or

    14.8.2 which expressly state that you may rely on them when entering into the contract.

14.9 Please note that we may transfer personal information about you to those that we may appoint to administer your account or recover amounts owing. That may include, for example, passing information about you to our insurers, debt recovery agents and solicitors, if you fail to pay us.

14.10 You may not assign your rights.

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Notes

Technical Notes

Synergy
YOUR RESOURCE FOR SUCCESS