KELLWOOD LIGHTING

- High-output, industrial, & commercial, linear lighting & trunking system developed for multi-functional applications

- 6 optical configurations & low-glare diffusers available - 3 hour emergency option with intelligent control methods, & varied installation styles

- CE, RoHS, CB, UL, DLC, GS, SAA & ERP international product marks

- The most competitive, high-end solution for projects worldwide

Boswell 2 Series
LED Linear Lighting System

CDN:SPEC117REV6

K

EST. 1985

ENGINEERING

LIGHTING

Technical Specifications Summary

Performance Summary:

	BOS2-35B	BOS2-50B	BOS2-70B	BOS2-70C	BOS2-100C	BOS2-140C
Code (Series-Wattage/Size)						
Nominal Power	35W	50W	70W	70W	100W	140W
Luminaire Efficacy @ CRI>80, 4000K CCT	159lm/W	159lm/W	156lm/W	159lm/W	159lm/W	156lm/W
Lumen Output @ CRI>80, 4000K CCT	5,565lm	7,950lm	10,920lm	11,130lm	15,900lm	23,400lm
Chip Lumen Maintenance (TM21 Reported)	L80B50 ≥60,000 hours @ Tc 38°C					
Certification	CE, RoHS, CB, UL, DLC, GS, SAA, ErP					
Product Warranty	5 Years (3 Years Emergency)					

Light Source and Photometric Parameters:

Chip Brand, Model, & Size	Everlight 67-21S/KK4C
Light Emmission	Direct
CCT	3000K, 4000K, 5000K, 6000K
CRI	≥80Ra, (≥95Ra optional)
SDCM	<6, (<3 optional)
Diffusers	Frosted, (Clear, Diffused optional)
Symmetric Light Distribution	120°, (25°, 60° optional)
Asymmetric Light Distribution	D3 (Double 30°), LA1 (Left Asymmetric), RA1 (Right Asymmetric)

Electrical Parameters[1]:

System Operating Power	35W	50W	70W	70W	100W	140W
Driver Brand	Own Brand (D1, D2, D3, D4 (Non-Dim) with Tridonic Driver)					
Driver Model	CSD2S-35	CSD2S-50	CSD2S-70	CSD2S-35	CSD2S-50	CSD2S-70
Typical Driver Lifetime	50,000 hours					
Input Voltage	220-240VAC					
Input Frequency	50-60Hz					
Qty of Drivers per Light	1	1	1	2	2	2
Inrush Current (Non-Dimming Driver)[3]	5A					
Power Factor	>0.95					
THD	<15% (220-240VAC)					
Insulation Class	I					
Surge Protection/Fusing	1.5kV					

Environmental Parameters:

IP Rating	IP20, (IP54 only available for 1500mm "B" length)
IK Rating	IK04
Ambient Usage Tolerance	-10°C to 40°C
Ambient Storage Tolerance	-40°C to 85°C
Ambient Humidity Tolerance	10% to 80% RH

◄◄ Technical Specifications Summary

Code (Series-Wattage/Size)	BOS2-35B	BOS2-50B	BOS2-70B	BOS2-70C	BOS2-100C	BOS2-140C
Physical/Mechanical Parameters:						
Product Dimensions: LxWxH (mm)	1500 x 70 x 77			3000 x 70 x 77		
Qty of Modules	1			2		
Electrical Connection	Terminal Block					
Fixture Weight[2]	2.0kg	2.2kg	2.4kg	4.2kg	4.6kg	4.8kg
Fixture Primary Material(s)	Mild Steel					
Fixture Finish	Painted					
Lens(es) Materials	UV Stabilised PMMA					
Dimming/Controls Parameters:						
Dimming Options	1-10V, DALI					
Compatible intelligent lighting systems	Wireless Controls and Monitoring					
Options/Accessories:						
Mounting Styles	Surface mounted, cable suspended					
Miscellaneous Accessories	Emergency (Remote Test)					
Available Product Colours	White (RAL9016), Grey, Black					
Emergency Options Summary:						
Emergency Variant Code	E3R1					
Test Method	Remote-Test					
Style	Integrated					
Output Power in Emergency Mode	6W					
Emergency Lumen Output @ CRI>80, 4000K CCT	<954lm					
Emergency Correction Factor	0.171	0.120	0.085		0.060	0.042
IP Rating	IP20					
Battery Chemical Composition	Ni-MH AA					
Battery Configuration	12 Cell Stick					
Battery Capacity	21,600mAh					
Battery Output Voltage	14.4V					
Battery Output max Current	75mA					
Output Power Duration	3 hours					
Time to Charge	16 hours					
Ambient Product Usage Tolerance	25°C to 60°C					
Ambient Product Storage Tolerance	-40°C to 85°C					
Product Dimensions	210 x 45 x 30					

[1] Electrical Parameter data is for D1 drivers, unless otherwise stated
[2] Excludes bracketry. Refer to the Packaging Weights & Dimensions data sheet for bracketry and accessory weights

◀ **Features**

Varied Optics
6 x optic variations offers product flexibility, regardless of installation height - low glare options (19-26 UGR) available.

Pre-Wired Trunking
Modular easy-install design - reduce time on site and minimise disruption of day-to-day operations. Wired in 25mm^2 5, 8 and 12 core options to accommodate main power, dimming controls and permanent emergency supply.
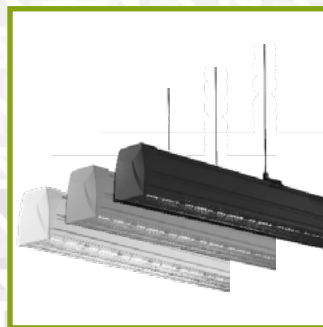
Fitting Colouration
White, Grey, & Black fitting and trunking finishes. Customisation available subject to MOQ.

Emergency Options
Integrated 3 hour maintained emergency option.

Sensor Options
Occupancy, multi-step dimming, and daylight harvesting intelligent microwave sensors offer improved energy reduction and ROI. 5-8m and 6-10m mounting height versions. Standalone DALI and 1-10V dimming available.
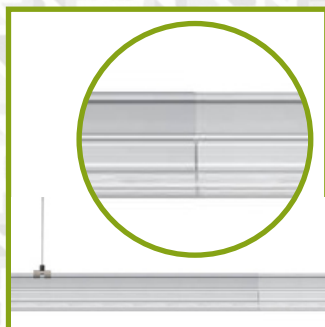
Infinity Lighting
Seamless product to product transitions - architectural project solutions alongside industrial performance .

Installation Flexibility
Surface mounting and suspension bracketry options. Chain and cable hanging kits available as accessories.

Junctions / Connectors
Site-specific solutions -
"T", "L" and "X" nodes offer simple solutions for complex project geometries.

Snap-In-Place Components
Quick to install and easily replaceable luminaires and modules.

IP54 Locking Covers
Ingress protection can be increased with optional luminaire locking covers.

Track Lighting Rail Option
Track-lighting module offers flexible spot-lighting solutions.

### Available as Standalone Luminaires
Luminaires are available in "standalone" form allowing for installation without the trunking solution.

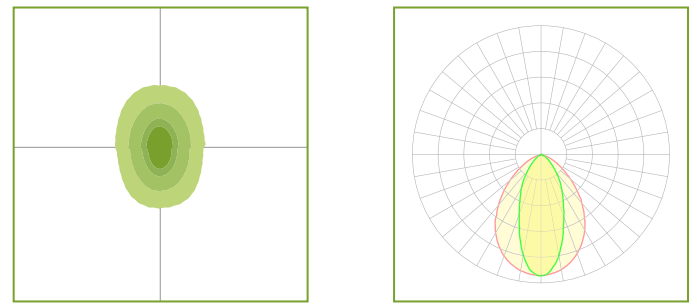Underline (all pages) = supplied as standard

Please note - images shown are intended to be illustrative only. For exact data, please refer to specific product photometry, available for download from our website.

25° Optic

ISOLUX DIAGRAM

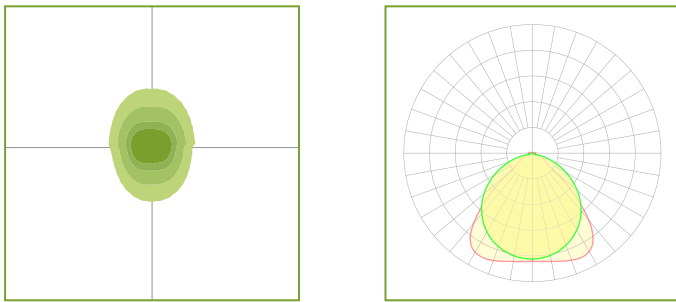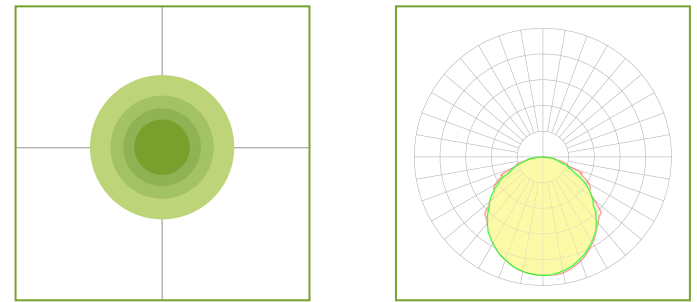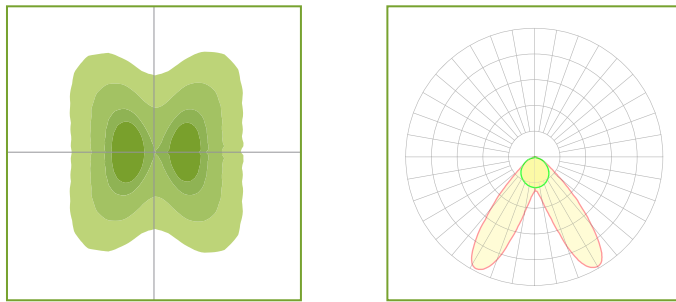POLAR DIAGRAM
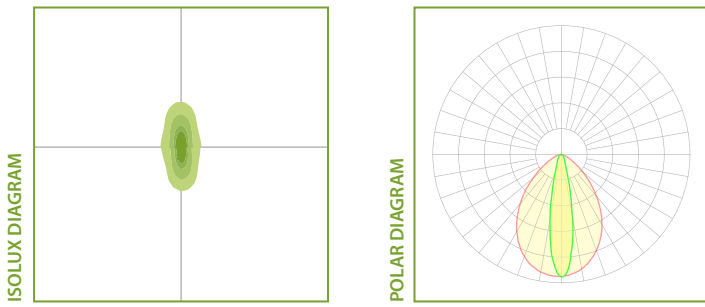
60° Optic

90° Optic

120° Optic

D30 Optic

LA1/RA1 Optic
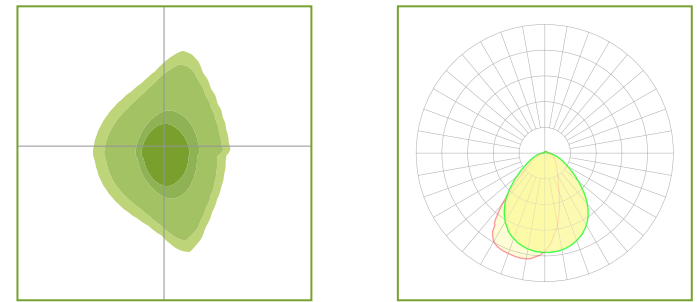
Diffusers

This series is available with the following diffusers. Each diffuser will have a varying effect on photometric distribution and intensity. Please refer to downloadable photometrics for exact data.

Reduced glare optic - all beam angles are supplied with part frosted/opal "FR" diffusion as standard

Colourations on isolux diagrams are qualitative, i.e. the same colour on any two isolux diagrams will not necessarily have the same lux value.

Product Ordering Codes

LIGHTS

PRODUCT	POWER	CRI & CCT	OPTIC	DRIVER	COLOUR	CORES	MODIFICATIONS
BOS2	**35B** 35W, 1500mm	**830** CRI >80, 3000K	**25** 25° CIRCULAR	**D1** NON-DIM	**WH** WHITE	**5C** 5 WIRES	**IP54** IP54 VARIANT
	50B 50W, 1500mm	**840** CRI >80, 4000K	**60** 60° CIRCULAR	**D2** 1-10V	**GR** GREY	**8C** 8 WIRES	**E3R1**[1] 6W OUTPUT INTEGRATED 3 HOUR MAINTAINED EMERGENCY (REMOTE TEST)
	70B 70W, 1500mm	**850** CRI >80, 5000K	**90** 90° CIRCULAR	**D3** DALI	**BL** BLACK	**12C** 12 WIRES	**DP** DALI POWER SUPPLY
	70C 70W, 3000mm	**860** CRI >80, 6000K	**120** 120° CIRCULAR				
	100C 100W, 3000mm	**930** CRI >95, 3000K	**D30** DOUBLE 30° OPTIC				
	140C 140W, 3000mm	**940** CRI >95, 4000K	**LA1** LEFT ASYMMETRIC				
		950 CRI >95, 5000K	**RA1** RIGHT ASYMMETRIC				
		960 CRI >95, 6000K					

Product Ordering Code Examples:
BOS2-50B-840-90-D1-WH-5C
BOS2-70C-930-D30-D3-WH-E3R1

TRUNKING

PRODUCT	TRUNKING	SIZE	COLOUR	CORES
BOS2	**TS** TRUNKING START SECTION	**B** 1500mm	**WH** WHITE	**5C** 5 WIRES
	TN TRUNKING MIDDLE SECTION	**C** 3000mm	**GR** GREY	**8C** 8 WIRES
	TE TRUNKING END CAP		**BL** BLACK	**12C** 12 WIRES

Product Ordering Code Examples:
BOS2-TT-B-WH-5C
BOS2-TN-B-WH-8C

ACCESSORIES AND CONNECTORS
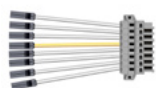
ACCESSORIES	ACCESSORIES	ACCESSORIES	ACCESSORIES	ACCESSORIES
BOS2-FN-8C FEED-IN CONNECTOR	**BOS2-EC#-WH** ENDCAP ("1" includes depth of light "2" includes depth of PC diffuser)	**BOS2-NF-WH-8C** POWER FEED-IN CONNECTOR - WHITE - 8 CORE	**BOS2-NO-WH-8C** POWER OUTPUT CONNECTOR - WHITE - 8 CORE	**BOS2-EB** END BLOCK
BOS2-T1-WH-8C T NODE CONNECTOR	**BOS2-T2 -WH-8C** REVERSED T NODE CONNECTOR	**BOS2-L1-WH-8C** L NODE CONNECTOR	**BOS2-L2 -WH-8C** REVERSED L NODE CONNECTOR	**BOS2-X-WH-8C** X NODE CONNECTOR

Core options available in: 5 core, 8 core, 12 core (5C, 8C, 12C respectively)
Trunking colour variations can be White, Black and Grey (WH, BL, GR respectively)
Accessories above are examples; colour and core codes vary.

Please note - images shown are intended to be illustrative only.

ACCESSORIES
BOS2-BC-A-WH
POLYCARBONATE BLANK COVER
"A" is 600mm, "B" is 1500mm

ACCESSORIES
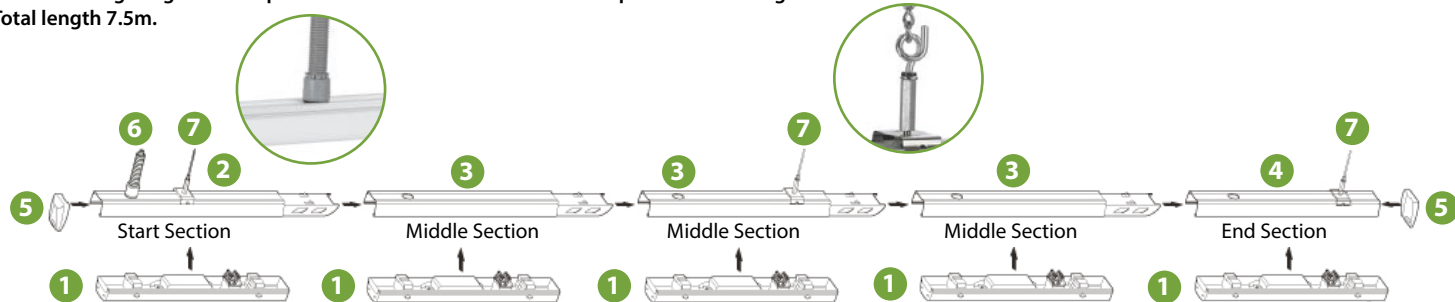**BOS2-SK**
SURFACE MOUNT KIT

ACCESSORIES
BOS2-HK
HOOK AND BRACKET SET

ACCESSORIES
BOS2-CS-30
WIRE SUSPENSION AND BRACKET SET

Example Run 1

Run Description:
Continuous lighting with rear power feed in connector and cable suspended mounting.
Total length 7.5m.

Start Section — Middle Section — Middle Section — Middle Section — End Section

SCHEMATIC PART	PART	CODE	UNITS
1	Light	BOS2-50B-850-90-D1-WH-8C	5
2	Trunking Start	BOS2-TS-B-WH-8C	1
3	Trunking Middle	BOS2-TN-B-WH-8C	3
4	Trunking End	BOS2-TE-B-WH-8C	1
5	End Cap	BOS2-EC1-WH	2
6	Rear Power Feed in Connector	BOS2-FN-8C	1
7	Hook and Bracket Set	BOS2-HK	3

Example Run 2

Run Description:
Alternating between luminaries and polycarbonate covers with end power feed in connector and surface mounting.
Total length 7.5m.

Middle Section — Middle Section — Middle Section — Middle Section — End Section
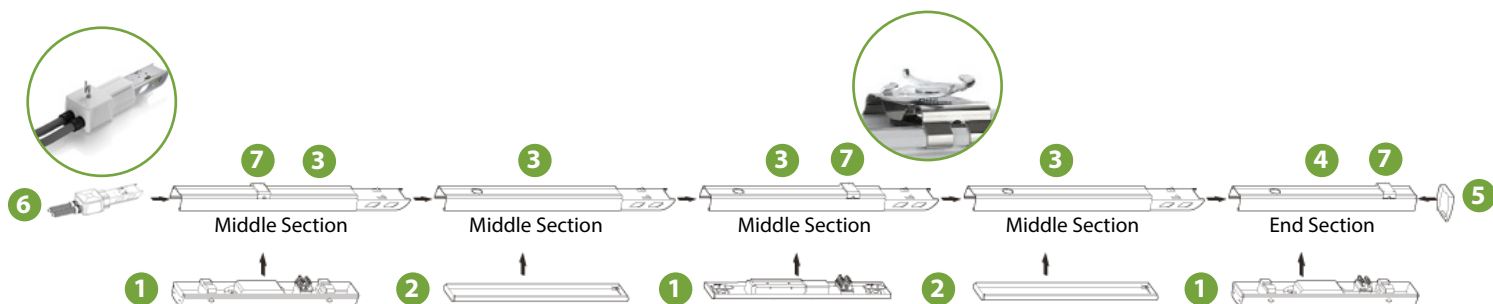
Schematic Part	PART	CODE	UNITS
1	Light	BOS2-50B-850-90-D1-WH-8C	3
2	Polycarbonate Cover	BOS2-BC-A-WH	2
3	Trunking Middle	BOS2-TN-B-WH-8C	4
4	Trunking End	BOS2-TE-B-WH-8C	1
5	End Cap	BOS2-EC1-WH	1
6	End power feed in connector	BOS2-NF-WH-8C	1
7	Surface mount kit	BOS2-SK	3