



KLEO X 78

Linear

Engineered for high performance and versatility

KLEO X 78 Linear

Direct Illumination

Evolved from products past, and designed for the forward-thinking innovators of Australia's design and construction world, mLight is excited to expand the range of Kleo X; the enhanced face of commercial, education, and healthcare lighting solutions.

Physical

Dimensions

78 mm W x 95 mm H

96 mm W x 82 mm H *recessed without bracket system*

Finish Options

Powdercoat Black, White, Silver

Other powdercoat colours available upon request

Decorative Timber, Concrete, Rust

Other powdercoat colours available upon request

Antimicrobial Powder Coating (AMC)

Environmental

IP20

IP65 *restrictions apply, see page 4 for details*

Electrical

Control Gear

Integrated *Flicker Free*

Power Consumption Range

5.0 to 56.0 W/m

Luminous Efficacy

Up to 130 lm/W @ 1200 lm/m, 9.2 W/m, CRI 80+,

T_a 65°C, Diffused

Lumen Maintenance

72,000 hours (L80/B10 at T_a 25°C)

Dimming Options

Fixed Output

1 - 10V

DSI

SwitchDIM

DALI-2

Control Options

MasterConnect *see page 4 for details*

Casambi

Weight

4.0 kg/m

3.5 kg/m *recessed*

Mounting Options

Surface Mounted

Wire Suspended

Rod Suspended

Wall Mounted

Recessed *Suitable surface material thickness 8 - 22 mm*

Ambient Operating Temperature

T_a 0° to 45 °C

IC Thermal Compliance 

Photometrics

Flux Range

670 to 6590 Lm/m @ 4000K, CRI 80+,

T_a max 45°C, Diffused

typical lumen packages - see page 5 for details

other packages available upon request

Distributions

Diffused

Asymmetric

Batwing

Smooth Glare Control

Silver Louvre *Low Glare <UGR19*

Subject to lighting calculations

Indirect available *see page 3 for details*

Light Source

LED Boards SDCM<3

mLight PLL Boards *see page 4 for details*

Correlated Colour Temperature

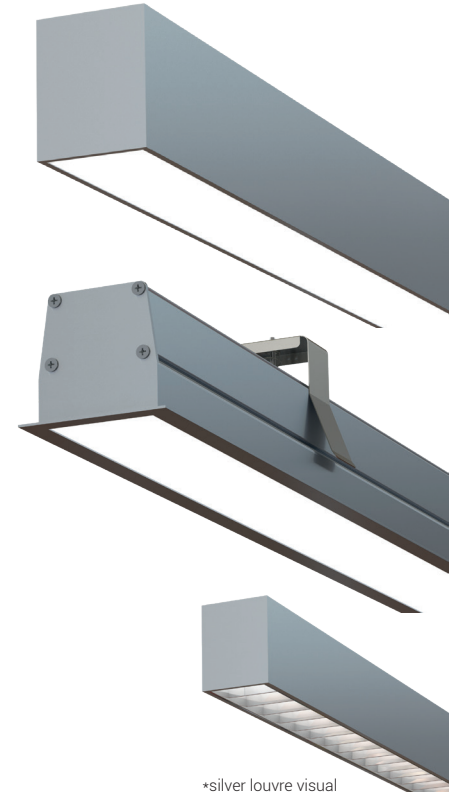
3000 K, 4000 K *standard*

2700 K, 5000 K, 6500 K *available upon request*

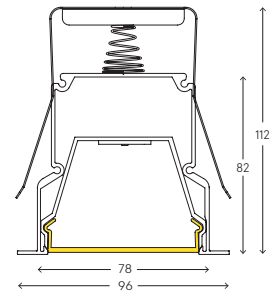
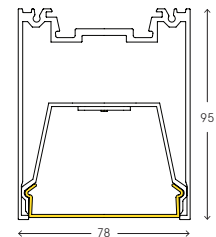
Colour Rendering Index

80+ *LED boards*

90+ *mLight PLL boards*



*silver louvre visual



VIC/TAS Chapter LIGHTING INNOVATION
AWARD OF COMMENDATION 2019

Optical and Electrical values are subject to a tolerance of +/- 10%.

Lumen Output values are "delivered" lumens, which take into consideration losses in the diffuser. These values are more relevant than source lumens, as luminaire efficiency is accounted for. Values given above are based on 4000K and T_a of 65°C

All product specifications are correct at time of printing, and subject to change without notice.

Rev 6.1
Date 05.2026
Page 2 of 8

KLEO X 78 Linear

Indirect Illumination

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Physical

Dimensions

78 mm W x 95 mm H

Finish Options

Powdercoat Black, White, Silver
Other powdercoat colours available upon request
Decorative Timber, Concrete, Rust
Other powdercoat colours available upon request
Antimicrobial Powder Coating (AMC)

Environmental

IP20

Electrical

Control Gear

Integrated *Flicker Free*

Power Consumption Range

5.0 to 67.0 W/m *Indirect Only*
10.0 to 66.0 W/m *Direct and Indirect Combined*

Luminous Efficacy

Up to 131 lm/W @ 1020 lm/m, 7.8 W/m, CRI 80+, T_c 65°C, Batwing-Up

Lumen Maintenance

72,000 hours (L80/B10 at T_a 25°C)

Dimming Options

Fixed Output
1 - 10V
DSI
SwitchDIM
DALI-2

Control Options

MasterConnect *see page 4 for details*
Casambi

Weight

4.5 kg/m

Mounting Options

Wire Suspended
Rod Suspended
Wall Mounted

Ambient Operating Temperature

T_a 0° to 45 °C

Photometrics

Flux Range

Indirect Only

700 to 8200 Lm/m @ 4000K, CRI 80+,
 T_a max 45°C, Batwing-Up

With Direct; Indirect limited to

700 to 3020 Lm/m
typical lumen packages - see page 5 for details
other packages available upon request

Distributions *see page 6 for details*

Batwing-Up
Narrow-Up
Asymmetric-Up

Light Source

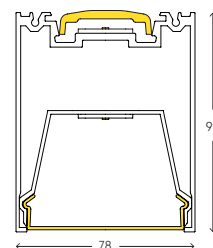
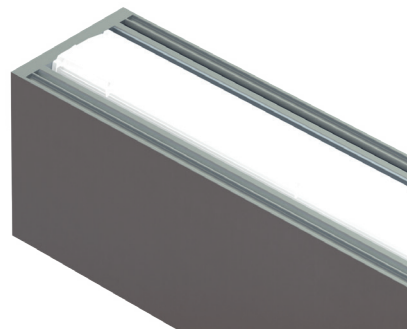
LED Boards *SDCM<3*
mLight PLL Boards *see page 4 for details*

Correlated Colour Temperature

3000 K, 4000 K *standard*
2700 K, 5000 K, 6500 K *available upon request*

Colour Rendering Index

80+ *LED boards*
90+ *mLight PLL boards*



VIC/TAS Chapter LIGHTING INNOVATION
AWARD OF COMMENDATION 2019

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Lumen Output values are "delivered" lumens, which take into consideration losses in the diffuser. These values are more relevant than source lumens, as luminaire efficiency is accounted for. Values given above are based on 4000K and T_c of 65°C

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Rev 6.1
Date 05.2026
Page 3 of 8

KLEO X 78 Linear

Options

Intersections

2, 3 and 4 way custom joins available

Light Source

Tuneable (2700 - 6500 K)
RGB or RGBW Tape

2 SDCM mLight PLL Boards
3 SDCM LED Boards

Emergency

Maintained
Duration
3 Hours
Classification for Diffused
C0 D50
C90 D50
Luminous Surface
280mm in length
Environmental
Ingress Protection up to IP65
Minimum length of 1124mm

Non-maintained available

Environmental

Ingress protection up to IP65
Maximum length 5400mm including endcaps
Mitre joins and/or sensors not available with IP
Not available in anodised finish

Sensors

Occupancy
Daylight Harvesting



A lighting management ecosystem to allow businesses to easily optimise lighting comfort, save energy, gain valuable data insights and cost effectively scale to their environment as business needs evolve.

Antimicrobial Powder Coating

Kleo X powder coating adds antimicrobial protection, helping to prevent bacterial and microbial growth on the coated surface.



Optical and Electrical values are subject to a tolerance of +/- 10%.

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Additional Info

Warranty

Product
10 Years
Terms and conditions apply

Maintained EMG 2 Years

Cyanosis

Approved using mLight PLL Boards

Colour Rendering Index refer to Figure 1

R_a 91
The CRI is a measure of the ability of a light source to accurately portray the colours of various objects in space. Originally consisting of 8 sample colours, the CRI now extends to 15 samples. R9 to R15 are special colours of high chroma; R9 evaluates red, whilst R15 is for skin tones.

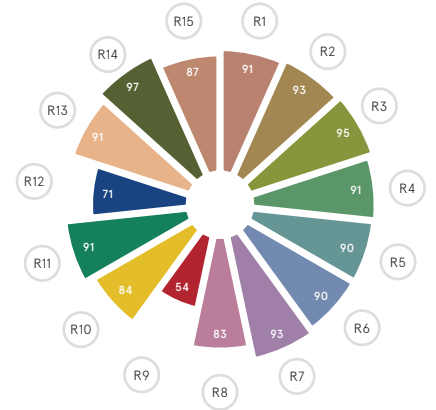


Figure 1 - Colour Rendering Index for 4000K, 90CRI

TM30 refer to Figure 2

R_f 90
R_g 99
IES TM-30 provides further metrics to assist in tailoring your lighting solution. The measured values quantify colour rendering in three main areas; observation (colour fidelity (R_f)), intensity (colour gamut (R_g)) and shift in intensity (colour vector graphics).

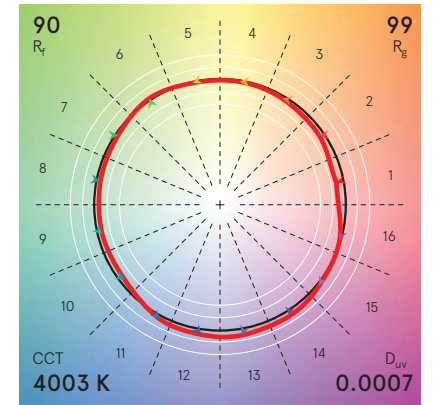


Figure 2 - Colour Vector Graphics for 4000K, 90CRI

Color Quality Scale refer to Figure 3

Q_a 90
The CQS is a metric which involves several facets of colour quality, including colour rendering, chromatic discrimination and observer preferences. The scale uses fifteen highly saturated colours, chosen as they more accurately span the range of common object colours.

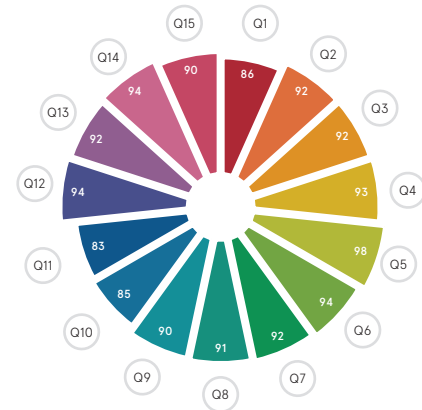


Figure 3 - Colour Quality Scale for 4000K, 90CRI

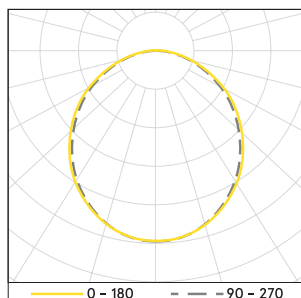
KLEO X 78 Linear

Configurations & Specific Data

LED Boards 3 SDCM, 80+ CRI

mLight Precision Linear LED (PLL) Boards 2 SDCM, 90+ CRI

Diffused



Flux Range

670 to 6590 Lm/m

**Maximum limited to 5130 Lm/m when combined with indirect*

Typical Lumen Packages

1200 lm/m, 9.2 W/m
1600 lm/m, 13.4 W/m
2000 lm/m, 16.9 W/m
2400 lm/m, 20.5 W/m
2800 lm/m, 23.2 W/m

Luminous Efficacy

Up to 122 Lm/W @ 1200 lm, 9.8 W/m, T_c 65°C

Flux Range

780 to 4180 Lm/m

**Maximum limited to 3340 Lm/m when combined with indirect*

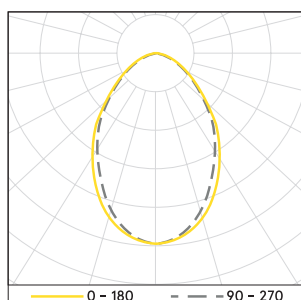
Typical Lumen Packages

1200 lm/m, 12.9 W/m
1600 lm/m, 17.8 W/m
2000 lm/m, 23.2 W/m
2400 lm/m, 28.9 W/m
2800 lm/m, 34.6 W/m

Luminous Efficacy

Up to 93 Lm/W @ 1200 lm, 12.9 W/m, T_c 65°C

Smooth Glare Control



Flux Range

570 to 5650 Lm/m

**Maximum limited to 4400 Lm/m when combined with indirect*

Typical Lumen Packages

1200 lm/m, 11.6 W/m
1600 lm/m, 15.7 W/m
2000 lm/m, 19.9 W/m
2400 lm/m, 23.2 W/m
2800 lm/m, 27.3 W/m

Luminous Efficacy

Up to 103 Lm/W @ 1200 lm, 11.6 W/m, T_c 65°C

Flux Range

670 to 3580 Lm/m

**Maximum limited to 2860 Lm/m when combined with indirect*

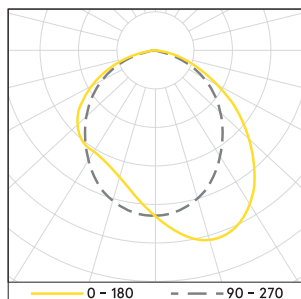
Typical Lumen Packages

1200 lm/m, 15.4 W/m
1600 lm/m, 21.4 W/m
2000 lm/m, 27.8 W/m
2400 lm/m, 34.6 W/m
2800 lm/m, 41.5 W/m

Luminous Efficacy

Up to 78 Lm/W @ 1200 lm, 15.4 W/m, T_c 65°C

Asymmetric



Flux Range

590 to 5890 Lm/m

**Maximum limited to 4580 Lm/m when combined with indirect*

Typical Lumen Packages

1200 lm/m, 11.1 W/m
1600 lm/m, 15.1 W/m
2000 lm/m, 19.1 W/m
2400 lm/m, 22.2 W/m
2800 lm/m, 26.1 W/m

Luminous Efficacy

Up to 108 Lm/W @ 1200 lm, 11.1 W/m, T_c 65°C

Flux Range

700 to 3730 Lm/m

**Maximum limited to 2980 Lm/m when combined with indirect*

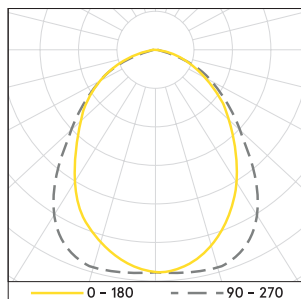
Typical Lumen Packages

1200 lm/m, 14.6 W/m
1600 lm/m, 20.3 W/m
2000 lm/m, 26.5 W/m
2400 lm/m, 32.9 W/m
2800 lm/m, 39.6 W/m

Luminous Efficacy

Up to 82 Lm/W @ 1200 lm, 14.6 W/m, T_c 65°C

Batwing Down



Flux Range

620 to 4132 Lm/m

**Maximum limited to 3305 Lm/m when combined with indirect*

Typical Lumen Packages

1200 lm/m, 12.7 W/m
1600 lm/m, 17 W/m
2000 lm/m, 21.3 W/m
2400 lm/m, 25.5 W/m
2800 lm/m, 29.7 W/m

Luminous Efficacy

Up to 94.1 Lm/W @ 1200 lm, 12.7 W/m, T_c 65°C



Low Glare
UGR <19



Emergency Options
Maintained and/or
Non maintained



IP Rated



MasterConnect
compatible

CASAMBI

IES files available online

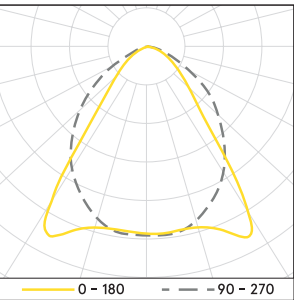
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Rev 6.1
Date 05.2026
Page 5 of 8

KLEO X 78 Linear

Configurations & Specific Data

Silver Louvre



LED Boards

3 SDCM, 80+ CRI

Flux Range

670 to 6670 Lm/m

**Maximum limited to 5190 Lm/m when combined with indirect*

Typical Lumen Packages

1200 lm/m, 9.7 W/m
1600 lm/m, 13.2 W/m
2000 lm/m, 16.7 W/m
2400 lm/m, 20.2 W/m
2800 lm/m, 22.9 W/m

Luminous Efficacy

Up to 124 Lm/W @ 1200 lm, 9.7 W/m, T_c 65°C

mLight Precision Linear LED (PLL) Boards

2 SDCM, 90+ CRI

Flux Range

790 to 4230 Lm/m

**Maximum limited to 3380 Lm/m when combined with indirect*

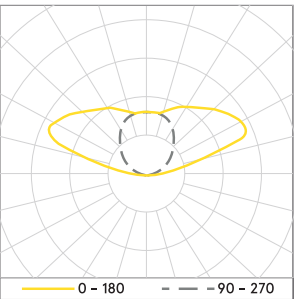
Typical Lumen Packages

1200 lm/m, 12.7 W/m
1600 lm/m, 17.6 W/m
2000 lm/m, 22.9 W/m
2400 lm/m, 28.4 W/m
2800 lm/m, 34.1 W/m

Luminous Efficacy

Up to 95 Lm/W @ 1200 lm, 12.7 W/m, T_c 65°C

Batwing-Up



Flux Range

700 to 8200 Lm/m

**Maximum limited to 3020 Lm/m when combined with direct*

Typical Lumen Packages

1020 lm/m, 7.8 W/m
2060 lm/m, 16.6 W/m

Luminous Efficacy

Up to 131 Lm/W @ 1020 lm, 7.8 W/m, T_c 65°C

Flux Range

820 to 5110 Lm/m

**Maximum limited to 2060 Lm/m when combined with direct*

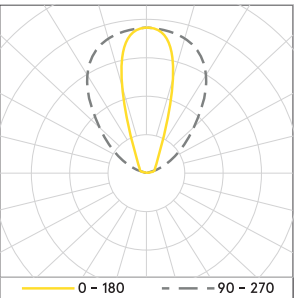
Typical Lumen Packages

1020 lm/m, 10.2 W/m
2060 lm/m, 22.7 W/m

Luminous Efficacy

Up to 100 Lm/W @ 1020 lm, 10.2 W/m, T_c 65°C

Narrow-Up



Flux Range

770 to 9070 Lm/m

**Maximum limited to 3340 Lm/m when combined with direct*

Typical Lumen Packages

1020 lm/m, 6.9 W/m
2060 lm/m, 14.9 W/m

Luminous Efficacy

Up to 148 Lm/W @ 1020 lm, 6.9 W/m, T_c 65°C

Flux Range

900 to 5660 Lm/m

**Maximum limited to 2280 Lm/m when combined with direct*

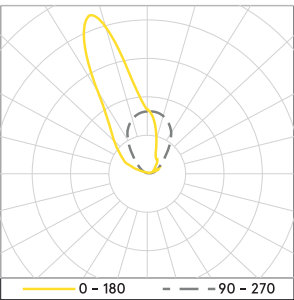
Typical Lumen Packages

1020 lm/m, 8.9 W/m
2060 lm/m, 20.2 W/m

Luminous Efficacy

Up to 115 Lm/W @ 1020 lm, 8.9 W/m, T_c 65°C

Asymmetric-Up



Flux Range

750 to 8850 Lm/m

**Maximum limited to 3260 Lm/m when combined with direct*

Typical Lumen Packages

1020 lm/m, 7.1 W/m
2060 lm/m, 15.3 W/m

Luminous Efficacy

Up to 144 Lm/W @ 1020 lm, 7.1 W/m, T_c 65°C

Flux Range

880 to 5520 Lm/m

**Maximum limited to 2220 Lm/m when combined with direct*

Typical Lumen Packages

1020 lm/m, 9.2 W/m
2060 lm/m, 20.8 W/m

Luminous Efficacy

Up to 111 Lm/W @ 1020 lm, 9.2 W/m, T_c 65°C



Low Glare
UGR <19



Emergency Options
Maintained and/or
Non maintained



IP Rated



MasterConnect
compatible

CASAMBI

IES files available online

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Rev 6.1
Date 05.2026
Page 6 of 8

KLEO X 78 Linear

How to specify...

Specification Statement

Use the below statement for your schedules, specifications, or quotes.

Guide: Copy and paste into your document.
Remove unwanted options in **Green**.
Add custom data points where noted in **Blue**.

KLEO X 78 with 10 Year Product Warranty, as manufactured by mLight Pty Ltd. Product complete with mConnect system, LightLock, Photron Chamber, RotaTech and Retina Light Control, **(LED boards with 3 SDCM / Precision Linear LED Boards with 2 SDCM)**, integrated **(DALI-2 / Fixed Output / 1-10V / DSI / Casambi / MasterConnect Ecosystem)** control gear, supports for **(Wire Suspended / Rod Suspended / Surface Mounted / Wall Mounted / Recessed)**. Dimensions 78 mm wide x 95 mm tall x **(xxxx)** mm long, including endcaps. Finished in **(Black PC / White PC / Silver PC / Decorative Coating / Custom Colour)**, IP **(20/ 65)** rated, Direct Light with **(Diffused / Batwing Down / Smooth Glare Control / Silver Louvre Glare Control / Asymmetric)** distribution, **(xxxx)** Lm/m, **(xxxx)** W/m, **Indirect Light with (Batwing-Up, Narrow-Up, Asymmetric-Up) distribution, (xxxx) Lm/m, (xxxx) W/m, L80 B10 72,000 hrs at Ta 25°C, (Cyanosis Approved) (Maintained Emergency as per specification). MasterConnect shall be installed as per specification.** Installation as per MLight recommendations.

Coding System

Use the below to code your solution for ease of quoting and discussing with our team.
Start with **KX78** and then follow on with additional codes.

EG: KX78-RM-B-9-30-DIF-2800-B-UP-2060

Mounting	Code	Finish	Code	CRI	Code	CCT / Light	Code	Direct Distribution	Code	Direct Lumen Package	Code	Indirect Distribution	Code	Indirect Lumen Package	Code	Dimming Option	Code
Rod Suspended	RS	Black PC	B	80+	8	2700 K	27	Diffused	DIF	MIN	MIN	Batwing-Up	B-UP	MIN	MIN	DALI-2	DA2
Wire Suspended	WS	White PC	W	90+	9	3000 K	30	Batwing Down	BAT	1200	1200	Narrow-Up	N-UP	1020	1020	Fixed Output	FO
Surface Mounted	SM	Silver PC	S			4000 K	40	Smooth Glare Control	SGC	1600	1600	Asymmetric-Up	A-UP	2060	2060	SwitchDIM	SD
Wall Mounted	WM	Decorative Coating	D			5000 K	50	Silver Louvre Glare Control	LBL	2000	2000			MAX	MAX		
Recessed	RM	Custom Colour	C			6500 K	65	Asymmetric	ASY	2400	2400			Custom	####		
Combination	CM	Anti Microbial	AMC			Tuneable	TU			2800	2800						
						RGB	RGB			MAX	MAX						
						RGBW	RGBW			Custom	####						

INTEGRATE LIGHT WITH LIFE, BEAUTIFULLY
