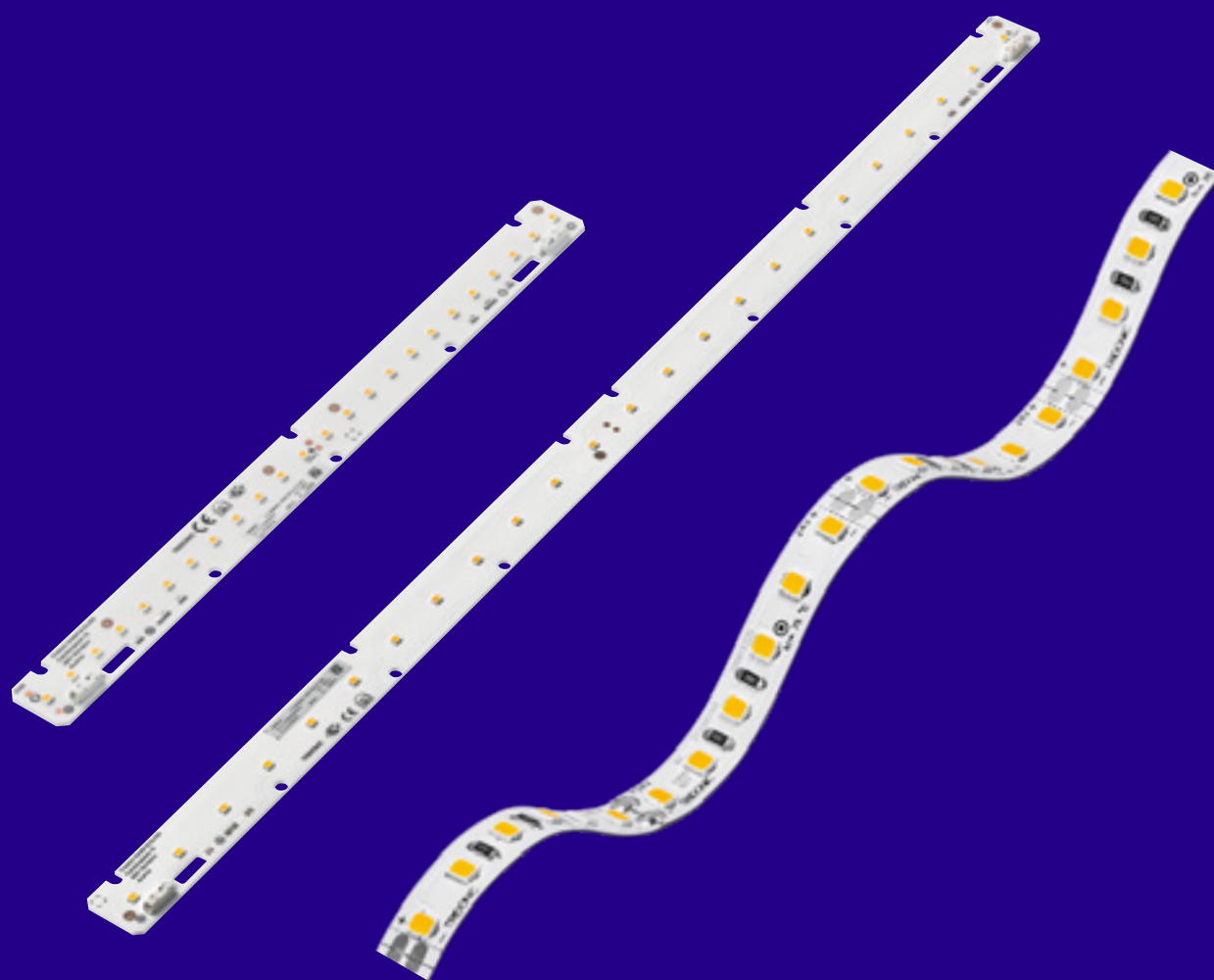


Rigid or flexible LED modules

Module LLE

For linear, wide-area
and free-standing luminaires



TRIDONIC



Applications and product portfolio

Efficient. Flexible. Linear.



Product portfolio – overview

essence series (SNC)

Cost effective

Static white in 3,000 K, 4,000 K and 6,500 K with a CRI > 80



Module LLE SNC3

advanced series (ADV)

Simplicity itself

Static white in 2,700 K, 3,000 K, 3,500 K, 4,000 K, 5,000 K, 6,500 K with a CRI > 80 and CRI > 90

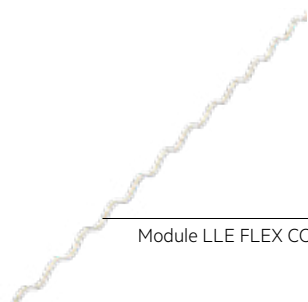


Module LLE ADV5

advanced (ADV)

Completely flexible

Static white in 2,700 K, 3,000 K, 3,500 K and 4,000 K with a CRI > 80 or > 90



Module LLE FLEX CC

premium series (PRE)

Convenient

Tunable White 2,700 – 6,500 K with a CRI > 90



LLE G2 premium system

Tridonic's broad range of LLE modules covers all common requirements for lumen packages, colour temperatures and lengths. Even when several modules are combined perfect homogeneity is guaranteed.

In order to create a powerful, flexible system with the highest efficacy, we offer the right LED driver for each module, with fixed / flex output as well as digitally dimmable.

essence series (SNC3)

Module width 20 mm



Module LLE 280 mm with 775lm

At a glance:

LLE 20 mm SNC3

- Efficacy up to 164 lm/W (NM, tp = 50 °C)
- Luminous fluxes: 650 lm, 775 lm, 1,250 lm, 2,400 lm
- Module length: 280 mm, 560 mm
- Colour temperatures: 3,000 K, 4,000 K, 6,500 K
- Colour rendering: CRI > 80
- Narrow colour tolerance MacAdam 3

Guarantee 5 yrs Lifetime 50,000 hrs

LLE 20 mm 775 lm CRI80 HV SNC3 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 20x280mm 775lm 830 HV SNC3	>80	3,000	SDCM 3	780	5.1	154	20x280	28002913
LLE 20x280mm 775lm 840 HV SNC3		4,000	SDCM 3	830	5.1	164	20x280	28002914
LLE 20x280mm 775lm 865 HV SNC3		6,500	SDCM 3	830	5.1	164	20x280	28002915
LLE 20x560mm 1550lm 830 HV SNC3	>80	3,000	SDCM 3	1,570	10.1	155	20x560	28002916
LLE 20x560mm 1550lm 840 HV SNC3		4,000	SDCM 3	1,660	10.1	164	20x560	28002917
LLE 20x560mm 1550lm 865 HV SNC3		6,500	SDCM 3	1,660	10.1	164	20x560	28002918

¹⁾Tolerance range for optical and electrical data ±10 %; ²⁾Operation mode NM, tp = 50 °C

LLE 20 mm 1,250 lm CRI80 HV SNC3 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 20x280mm 1250lm 830 HV SNC3	>80	3,000	SDCM 3	1,050	6.8	155	20x280	28002919
LLE 20x280mm 1250lm 840 HV SNC3		4,000	SDCM 3	1,100	6.8	163	20x280	28002920
LLE 20x280mm 1250lm 865 HV SNC3		6,500	SDCM 3	1,100	6.8	163	20x280	28002921
LLE 20x560mm 2400lm 830 HV SNC3	>80	3,000	SDCM 3	2,100	13.5	155	20x560	28002922
LLE 20x560mm 2400lm 840 HV SNC3		4,000	SDCM 3	2,210	13.5	164	20x560	28002923
LLE 20x560mm 2400lm 865 HV SNC3		6,500	SDCM 3	2,210	13.5	164	20x560	28002924

¹⁾Tolerance range for optical and electrical data ±10 %; ²⁾Operation mode NM, tp = 50 °C

essence series (SNC3)

Module width 20 mm

LLE 20 mm 650 lm CRI80 LV SNC3 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 20x280mm 775lm 830 LV SNC3	>80	3,000	SDCM 3	520	3.4	154	20x280	28002925
LLE 20x280mm 775lm 840 LV SNC3		4,000	SDCM 3	550	3.4	163	20x280	28002926
LLE 20x280mm 775lm 865 LV SNC3		6,500	SDCM 3	550	3.4	163	20x280	28002927
LLE 20x560mm 1300lm 830 LV SNC3	>80	3,000	SDCM 3	1,050	6.8	155	20x560	28002928
LLE 20x560mm 1300lm 840 LV SNC3		4,000	SDCM 3	1,100	6.8	163	20x560	28002929
LLE 20x560mm 1300lm 865 LV SNC3		6,500	SDCM 3	1,100	6.8	163	20x560	28002931

¹⁾Tolerance range for optical and electrical data ±10 %; ²⁾Operation mode NM, tp = 50 °C

LLE 20 mm 1,250 lm CRI80 LV SNC3 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 20x280mm 1250lm 830 LV SNC3	>80	3,000	SDCM 3	1,050	6.8	155	20x280	28002932
LLE 20x280mm 1250lm 840 LV SNC3		4,000	SDCM 3	1,100	6.8	163	20x280	28002933
LLE 20x280mm 1250lm 865 LV SNC3		6,500	SDCM 3	1,100	6.8	163	20x280	28002934
LLE 20x560mm 2400lm 830 LV SNC3	>80	3,000	SDCM 3	2,100	13.5	155	20x560	28002935
LLE 20x560mm 2400lm 840 LV SNC3		4,000	SDCM 3	2,210	13.5	163	20x560	28002936
LLE 20x560mm 2400lm 865 LV SNC3		6,500	SDCM 3	2,210	13.5	163	20x560	28002937

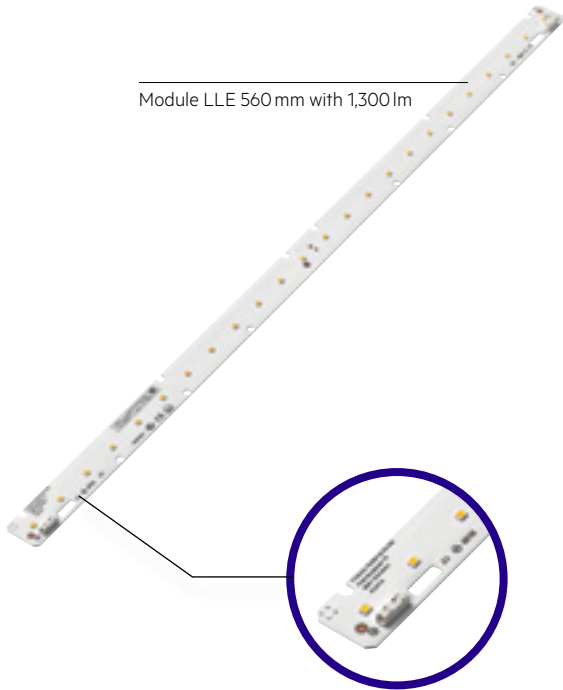
¹⁾Tolerance range for optical and electrical data ±10 %; ²⁾Operation mode NM, tp = 50 °C

The third generation of essence (SNC) modules offers everything that less complex linear lighting solutions need. For example, they benefit from improved efficacy, which considerably cuts energy costs, and a longer life time.

With a width of just 20 millimetres, the linear modules are ideal for realising slim luminaires cost-effectively. Despite the small width, the modules with Zhaga-compliant drill holes offer a high level of installation convenience.

advanced series (ADV5)

Module width 24 mm



Module LLE 560 mm with 1,300lm

At a glance:

LLE 24 mm ADV5

Outstanding efficacy up to 205 lm/W

- Standard efficacy portfolio up to 195 lm/W (NM, $t_p = 50\text{ }^\circ\text{C}$)
- High efficacy portfolio up to 205 lm/W ($t_p = 50\text{ }^\circ\text{C}$)

Broad product portfolio

- CCT range: 2,700 K, 3,000 K, 3,500 K, 4,000 K, 5,000 K, 6,500 K
- Module length: 70 mm, 140 mm, 280 mm, 560 mm, 1,120 mm, 1,400 mm
- Available in CRI > 80 and CRI > 90
- Non-SELV and enhanced SELV portfolio
- Front and backside connector options

Easy design-in

- Zhaga-compliant module lengths
- Compatible to linear accessories (ACL LINEAR LENSES 24 mm, LINEAR COVERS, PUSH-FIX CLIPS)

Enhanced SELV portfolio

- Different module lengths are combinable (280 mm module and 560 mm module have the same V_f (~36 V))
- Available in CRI > 80 and CRI > 90
- Change of terminal positions for easier wiring and less shadowing

Guarantee 5 yrs

Lifetime 72,000 hrs

MacAdam 3

The LLE 24mm ADV5 boasts limitless flexibility and excellent efficacy. When it comes to efficacy, the fifth generation has reached a new level. Luminaire manufacturers also benefit from Zhaga-compliant modules, which make design-in considerably easier.

This generation boasts an expanded product portfolio in CRI > 80 and in CRI > 90, each in SELV and non-SELV variants. It's possible to combine SELV modules of different lengths, making the modules more flexible to use. Across the whole portfolio, connectors can be placed on the rear to avoid unwanted shadow effects.

	non-SELV portfolio	SELV portfolio
Standard position Front connector		
Option Backside connector		
Option Front connector for automatic wiring		

By default all modules are equipped with connectors at the standard positions. The other connector positions are available on request.

advanced series (ADV5)

Module width 24 mm

LLE 24 mm High Efficacy CRI80 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy tp = 50/65 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24 mm 650 lm HE HV ADV5								
LLE 24x280mm 650lm 830 HE HV ADV5*	>80	3,000	SDCM 3	580	3.0	193	24 x 280	on demand
LLE 24x280mm 650lm 840 HE HV ADV5		4,000	SDCM 3	615	3.0	205	24 x 280	89603201
LLE 24x280mm 650lm 830 HE HV ADV5*		3,000	SDCM 3	1,165	3.0	193	24 x 560	on demand
LLE 24x560mm 1300lm 840 HE HV ADV5		4,000	SDCM 3	1,230	6.0	205	24 x 560	89603202
LLE 24 mm 1,250 lm HE HV ADV5								
LLE 24x280mm 1250lm 830 HE HV ADV5*	>80	3,000	SDCM 3	1,160	6.0	193	24 x 280	on demand
LLE 24x280mm 1250lm 840 HE HV ADV5		4,000	SDCM 3	1,230	6.0	205	24 x 280	89603224
LLE 24x560mm 2400lm 830 HE HV ADV5*		3,000	SDCM 3	2,230	12.0	193	24 x 560	on demand
LLE 24x560mm 2400lm 840 HE HV ADV5		4,000	SDCM 3	2,470	12.0	205	24 x 560	89603225
LLE 24 mm 2,000 lm HE HV ADV5								
LLE 24x280mm 2000lm 840 HE HV ADV5*	>80	4,000	SDCM 3	1,820	9.0	203	24 x 280	on demand
LLE 24x560mm 4000lm 840 HE HV ADV5*		4,000	SDCM 3	3,650	18.0	203	24 x 560	on demand

*Available on request; ¹⁾Tolerance range for optical and electrical data +-10%; ²⁾650/1250 lm/ft: Operation mode NM; tp = 50 °C; 2000 lm/ft: Operation mode NM; tp = 65 °C

LLE 24 mm 650 lm CRI80 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.	
LLE 24x70mm 160lm 830 HV ADV5 QTY4	>80	3,000	SDCM 3	150	0.8	181	24 x 70	89603180	
LLE 24x70mm 160lm 835 HV ADV5 QTY4*		3,500	SDCM 3	150	0.8	183	24 x 70	on demand	
LLE 24x70mm 160lm 840 HV ADV5 QTY4		4,000	SDCM 3	155	0.8	190	24 x 70	89603181	
LLE 24x140mm 325lm 827 HV ADV5	>80	2,700	SDCM 3	285	1.7	173	24 x 140	89603182	
LLE 24x140mm 325lm 830 HV ADV5		3,000	SDCM 3	300	1.7	181	24 x 140	89603183	
LLE 24x140mm 325lm 835 HV ADV5		3,500	SDCM 3	300	1.7	183	24 x 140	28003388	
LLE 24x140mm 325lm 840 HV ADV5		4,000	SDCM 3	315	1.7	190	24 x 140	89603184	
LLE 24x140mm 325lm 850 HV ADV5*		5,000	SDCM 3	320	1.7	195	24 x 140	on demand	
LLE 24x140mm 325lm 865 HV ADV5		6,500	SDCM 3	315	1.7	191	24 x 140	89603186	
LLE 24x280mm 650lm 827 HV ADV5		2,700	SDCM 3	570	3.3	173	24 x 280	89603187	
LLE 24x280mm 650lm 830 HV ADV5	3,000	SDCM 3	600	3.3	181	24 x 280	89603188		
LLE 24x280mm 650lm 835 HV ADV5	>80	3,500	SDCM 3	605	3.3	183	24 x 280	89603395	
LLE 24x280mm 650lm 840 HV ADV5		4,000	SDCM 3	630	3.3	190	24 x 280	89603189	
LLE 24x280mm 650lm 840 HV ADV5 BT *		4,000	SDCM 3	630	3.3	190	24 x 280	on demand	
LLE 24x280mm 650lm 850 HV ADV5		5,000	SDCM 3	645	3.3	195	24 x 280	89603190	
LLE 24x280mm 650lm 865 HV ADV5		6,500	SDCM 3	630	3.3	191	24 x 280	89603191	
LLE 24x560mm 1300lm 827 HV ADV5		>80	2,700	SDCM 3	1,140	6.6	173	24 x 560	89603192
LLE 24x560mm 1300lm 830 HV ADV5			3,000	SDCM 3	1,200	6.6	181	24 x 560	89603193
LLE 24x560mm 1300lm 835 HV ADV5	3,500		SDCM 3	1,210	6.6	183	24 x 560	28003397	
LLE 24x560mm 1300lm 840 HV ADV5	4,000		SDCM 3	1,260	6.6	190	24 x 560	89603194	
LLE 24x560mm 1300lm 840 HV ADV5 BT	4,000		SDCM 3	1,260	6.6	190	24 x 560	28002944	
LLE 24x560mm 1300lm 850 HV ADV5	5,000		SDCM 3	1,290	6.6	195	24 x 560	89603195	
LLE 24x560mm 1300lm 865 HV ADV5	6,500		SDCM 3	1,260	6.6	191	24 x 560	89603196	
LLE 24x560mm 1300lm 865 HV ADV5 BT	6,500		SDCM 3	1,260	6.6	191	24 x 560	28002945	
LLE 24x1120mm 2600lm 830 HV ADV5	>80		3,000	SDCM 3	2,390	13.2	181	24 x 1,120	89603197
LLE 24x1120mm 2600lm 835 HV ADV5*			3,500	SDCM 3	2,420	13.2	183	24 x 1,120	on demand
LLE 24x1120mm 2600lm 840 HV ADV5			4,000	SDCM 3	2,510	13.2	190	24 x 1,120	89603198
LLE 24x1400mm 3250lm 830 HV ADV5	>80		3,000	SDCM 3	2,990	16.5	181	24 x 1,400	89603199
LLE 24x1400mm 3250lm 835 HV ADV5*			3,500	SDCM 3	3,020	16.5	183	24 x 1,400	on demand
LLE 24x1400mm 3250lm 840 HV ADV5			4,000	SDCM 3	3,140	16.5	190	24 x 1,400	89603200

*Available on request; ¹⁾Tolerance range for optical and electrical data: ±10 %; ²⁾Operation mode NM, tp = 50 °C

advanced series (ADV5)

Module width 24 mm

LLE 24 mm 1,250 lm CRI80 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x70mm 325lm 827 HV ADV5 QTY4	>80	2,700	SDCM 3	285	1.7	173	24 x 70	on demand
LLE 24x70mm 325lm 830 HV ADV5 QTY4		3,000	SDCM 3	300	1.7	181	24 x 70	89603203
LLE 24x70mm 325lm 835 HV ADV5 QTY4*		3,500	SDCM 3	300	1.7	183	24 x 70	on demand
LLE 24x70mm 325lm 840 HV ADV5 QTY4		4,000	SDCM 3	315	1.7	190	24 x 70	89603204
LLE 24x70mm 325lm 850 HV ADV5 QTY4		5,000	SDCM 3	320	1.7	195	24 x 70	28003379
LLE 24x70mm 325lm 865 HV ADV5 QTY4		6,500	SDCM 3	315	1.7	191	24 x 70	28002946
LLE 24x140mm 650lm 827 HV ADV5*	>80	2,700	SDCM 3	570	3.3	173	24 x 140	on demand
LLE 24x140mm 650lm 830 HV ADV5		3,000	SDCM 3	600	3.3	181	24 x 140	89603206
LLE 24x140mm 650lm 835 HV ADV5		3,500	SDCM 3	605	3.3	183	24 x 140	28003404
LLE 24x140mm 650lm 840 HV ADV5		4,000	SDCM 3	630	3.3	190	24 x 140	89603207
LLE 24x140mm 650lm 850 HV ADV5*		5,000	SDCM 3	645	3.3	195	24 x 140	on demand
LLE 24x140mm 650lm 865 HV ADV5*		6,500	SDCM 3	630	3.3	191	24 x 140	on demand
LLE 24x280mm 1250lm 827 HV ADV5	>80	2,700	SDCM 3	1,140	6.6	173	24 x 280	89603210
LLE 24x280mm 1250lm 830 HV ADV5		3,000	SDCM 3	1,200	6.6	181	24 x 280	89603211
LLE 24x280mm 1250lm 835 HV ADV5		3,500	SDCM 3	1,210	6.6	183	24 x 280	28003405
LLE 24x280mm 1250lm 840 HV ADV5		4,000	SDCM 3	1,260	6.6	190	24 x 280	89603212
LLE 24x280mm 1250lm 840 HV ADV5 BT*		4,000	SDCM 3	1,260	6.6	190	24 x 280	on demand
LLE 24x280mm 1250lm 850 HV ADV5		5,000	SDCM 3	1,290	6.6	195	24 x 280	89603213
LLE 24x280mm 1250lm 865 HV ADV5	6,500	SDCM 3	1,260	6.6	191	24 x 280	89603214	
LLE 24x560mm 2400lm 827 HV ADV5	>80	2,700	SDCM 3	2,290	13.2	173	24 x 560	89603215
LLE 24x560mm 2400lm 830 HV ADV5		3,000	SDCM 3	2,390	13.2	181	24 x 560	89603216
LLE 24x560mm 2400lm 835 HV ADV5		3,500	SDCM 3	2,420	13.2	183	24 x 560	28003262
LLE 24x560mm 2400lm 840 HV ADV5		4,000	SDCM 3	2,510	13.2	190	24 x 560	89603217
LLE 24x560mm 2400lm 840 HV ADV5 BT*		4,000	SDCM 3	2,510	13.2	190	24 x 560	on demand
LLE 24x560mm 2400lm 850 HV ADV5		5,000	SDCM 3	2,570	13.2	195	24 x 560	89603218
LLE 24x560mm 2400lm 865 HV ADV5	6,500	SDCM 3	2,520	13.2	191	24 x 560	89603219	
LLE 24x1120mm 4800lm 830 HV ADV5	>80	3,000	SDCM 3	4,780	26.5	181	24 x 1,120	89603220
LLE 24x1120mm 4800lm 835 HV ADV5		3,500	SDCM 3	4,840	26.5	183	24 x 1,120	on demand
LLE 24x1120mm 4800lm 840 HV ADV5		4,000	SDCM 3	5,030	26.5	190	24 x 1,120	89603221
LLE 24x1400mm 6000lm 830 HV ADV5	>80	3,000	SDCM 3	5,980	32.9	181	24 x 1,400	89603222
LLE 24x1400mm 6000lm 835 HV ADV5		3,500	SDCM 3	6,050	32.9	183	24 x 1,400	on demand
LLE 24x1400mm 6000lm 840 HV ADV5		4,000	SDCM 3	6,290	32.9	190	24 x 1,400	89603223

*Available on request; ¹⁾Tolerance range for optical and electrical data: ±10 %; ²⁾Operation mode NM, tp = 50 °C**LLE 24 mm 2,000 lm CRI80 HV ADV5 (non-SELV)**

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 65 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x280mm 2000lm 827 HV ADV5*	>80	2,700	SDCM 3	1,820	10.7	169	24 x 280	on demand
LLE 24x280mm 2000lm 830 HV ADV5		3,000	SDCM 3	1,900	10.7	177	24 x 280	89603236
LLE 24x280mm 2000lm 840 HV ADV5		4,000	SDCM 3	2,000	10.7	186	24 x 280	89603237
LLE 24x280mm 2000lm 850 HV ADV5		5,000	SDCM 3	2,050	10.7	190	24 x 280	89603238
LLE 24x280mm 2000lm 865 HV ADV5		6,500	SDCM 3	2,000	10.7	186	24 x 280	89603239
LLE 24x560mm 4000lm 827 HV ADV5*	>80	2,700	SDCM 3	3,630	21.5	169	24 x 560	on demand
LLE 24x560mm 4000lm 830 HV ADV5		3,000	SDCM 3	3,800	21.5	177	24 x 560	89603241
LLE 24x560mm 4000lm 840 HV ADV5		4,000	SDCM 3	3,990	21.5	186	24 x 560	89603242
LLE 24x560mm 4000lm 850 HV ADV5		5,000	SDCM 3	4,090	21.5	190	24 x 560	89603243
LLE 24x560mm 4000lm 865 HV ADV5		6,500	SDCM 3	4,010	21.5	186	24 x 560	89603244
LLE 24x1120mm 8000lm 830 HV ADV5*	>80	3,000	SDCM 3	7,600	43.0	177	24 x 1,120	on demand
LLE 24x1120mm 8000lm 840 HV ADV5		4,000	SDCM 3	7,990	43.0	186	24 x 1,120	89603246
LLE 24x1400mm 10000lm 830 HV ADV5*	>80	3,000	SDCM 3	9,490	53.7	177	24 x 1,400	on demand
LLE 24x1400mm 10000lm 840 HV ADV5*		4,000	SDCM 3	9,980	53.7	186	24 x 1,400	on demand

*Available on request; ¹⁾Tolerance range for optical and electrical data: ±10 %; ²⁾Operation mode NM, tp = 65 °C

advanced series (ADV5)

Module width 24 mm

LLE 24 mm 650 lm CRI90 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy $\tau_p = 50^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 24x140mm 160lm 927 HV ADV5 QTY4*	>90	2,700	SDCM 3	120	0.8	148	24 x 70	on demand
LLE 24x140mm 160lm 930 HV ADV5 QTY4		3,000	SDCM 3	125	0.8	153	24 x 70	28003964
LLE 24x140mm 160lm 935 HV ADV5 QTY4*		3,500	SDCM 3	130	0.8	154	24 x 70	on demand
LLE 24x140mm 160lm 940 HV ADV5 QTY4		4,000	SDCM 3	135	0.8	160	24 x 70	28003966
LLE 24x140mm 325lm 927 HV ADV5	>90	2,700	SDCM 3	245	1.7	148	24 x 140	28003027
LLE 24x140mm 325lm 930 HV ADV5		3,000	SDCM 3	255	1.7	153	24 x 140	28003028
LLE 24x140mm 325lm 935 HV ADV5		3,500	SDCM 3	255	1.7	154	24 x 140	28003319
LLE 24x140mm 325lm 940 HV ADV5		4,000	SDCM 3	265	1.7	160	24 x 140	28003029
LLE 24x280mm 650lm 927 HV ADV5	>90	2,700	SDCM 3	490	3.3	148	24 x 280	28003030
LLE 24x280mm 650lm 930 HV ADV5		3,000	SDCM 3	505	3.3	153	24 x 280	28003031
LLE 24x280mm 650lm 935 HV ADV5		3,500	SDCM 3	510	3.3	154	24 x 280	28003320
LLE 24x280mm 650lm 940 HV ADV5		4,000	SDCM 3	530	3.3	160	24 x 280	28003032
LLE 24x560mm 1300lm 927 HV ADV5	>90	2,700	SDCM 3	975	6.6	148	24 x 560	28003033
LLE 24x560mm 1300lm 930 HV ADV5		3,000	SDCM 3	1,010	6.6	153	24 x 560	28003034
LLE 24x560mm 1300lm 935 HV ADV5		3,500	SDCM 3	1,020	6.6	154	24 x 560	28003402
LLE 24x560mm 1300lm 940 HV ADV5		4,000	SDCM 3	1,060	6.6	160	24 x 560	28003035
LLE 24x1120mm 2600lm 930 HV ADV5*	>90	3,000	SDCM 3	2,020	13.2	153	24 x 1,120	on demand
LLE 24x1120mm 2600lm 940 HV ADV5*		4,000	SDCM 3	2,110	13.2	160	24 x 1,120	on demand
LLE 24x140mm 3250lm 930HV ADV5*	>90	3,000	SDCM 3	2,530	16.5	153	24 x 1,400	on demand
LLE 24x140mm 3250lm 940 HV ADV5*		4,000	SDCM 3	2,640	16.5	160	24 x 1,400	on demand

*Available on request; ¹⁾ Tolerance range for optical and electrical data: $\pm 10\%$; ²⁾ Operation mode NM, $\tau_p = 65^\circ\text{C}$

LLE 24 mm 1,250 lm CRI90 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy $\tau_p = 50^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 24x140mm 160lm 927 HV ADV5 QTY4*	>90	2,700	SDCM 3	245	1.7	148	24 x 70	on demand
LLE 24x140mm 160lm 930 HV ADV5 QTY4*		3,000	SDCM 3	250	1.7	153	24 x 70	28003972
LLE 24x140mm 160lm 935 HV ADV5 QTY4*		3,500	SDCM 3	255	1.7	154	24 x 70	on demand
LLE 24x140mm 160lm 940 HV ADV5 QTY4*		4,000	SDCM 3	265	1.7	160	24 x 70	28003974
LLE 24x140mm 650lm 927 HV ADV5*	>90	2,700	SDCM 3	490	3.3	148	24 x 140	on demand
LLE 24x140mm 650lm 930 HV ADV5		3,000	SDCM 3	505	3.3	153	24 x 140	89603227
LLE 24x140mm 650lm 935 HV ADV5		3,500	SDCM 3	510	3.3	154	24 x 140	28003411
LLE 24x140mm 650lm 940 HV ADV5		4,000	SDCM 3	530	3.3	160	24 x 140	89603228
LLE 24x280mm 1250lm 927 HV ADV5*	>90	2,700	SDCM 3	980	6.6	148	24 x 280	on demand
LLE 24x280mm 1250lm 930 HV ADV5		3,000	SDCM 3	1,010	6.6	153	24 x 280	89603230
LLE 24x280mm 1250lm 935 HV ADV5		3,500	SDCM 3	1,020	6.6	154	24 x 280	28003412
LLE 24x280mm 1250lm 940 HV ADV5		4,000	SDCM 3	1,060	6.6	160	24 x 280	89603231
LLE 24x560mm 2400lm 927 HV ADV5*	>90	2,700	SDCM 3	1,950	13.2	148	24 x 560	on demand
LLE 24x560mm 2400lm 930 HV ADV5		3,000	SDCM 3	2,020	13.2	153	24 x 560	89603233
LLE 24x560mm 2400lm 935 HV ADV5		3,500	SDCM 3	2,040	13.2	154	24 x 560	28003413
LLE 24x560mm 2400lm 940 HV ADV5		4,000	SDCM 3	2,110	13.2	160	24 x 560	89603234
LLE 24x140mm 160lm 930 HV ADV5*	>90	3,000	SDCM 3	4,050	26.5	153	24 x 1,120	on demand
LLE 24x140mm 160lm 940 HV ADV5*		4,000	SDCM 3	4,230	26.5	160	24 x 1,120	on demand
LLE 24x140mm 160lm 930 HV ADV5*	>90	3,000	SDCM 3	5,060	33.1	153	24 x 1,400	on demand
LLE 24x140mm 160lm 940 HV ADV5*		4,000	SDCM 3	5,280	33.1	160	24 x 1,400	on demand

*Available on request; ¹⁾ Tolerance range for optical and electrical data: $\pm 10\%$; ²⁾ Operation mode NM, $\tau_p = 50^\circ\text{C}$

advanced series (ADV5)

Module width 24 mm

LLE 24 mm 2,000 lm CRI90 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 65 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x280mm 2000lm 930 LV ADV5	>90	3,000	SDCM 3	1,610	10.7	150	24 x 290	28003974
LLE 24x280mm 2000lm 940 LV ADV5		4,000	SDCM 3	1,680	10.7	156	24 x 290	28003980
LLE 24x560mm 4000lm 930 LV ADV5	>90	3,000	SDCM 3	3,220	21.5	150	24 x 560	28003981
LLE 24x560mm 4000lm 940 LV ADV5		4,000	SDCM 3	3,360	21.5	156	24 x 560	28003982

*Available on request; ¹⁾Tolerance range for optical and electrical data: ±10%; ²⁾ Operation mode NM, tp = 65 °C

LLE 24 mm 650 lm CRI80 LV ADV5 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x280mm 650lm 827 LV ADV5	>80	2,700	SDCM 3	570	3.3	173	24 x 280	89603320
LLE 24x280mm 650lm 830 LV ADV5		3,000	SDCM 3	600	3.3	181	24 x 280	89603321
LLE 24x280mm 650lm 835 LV ADV5		3,500	SDCM 3	605	3.3	183	24 x 280	89603322
LLE 24x280mm 650lm 840 LV ADV5		4,000	SDCM 3	630	3.3	190	24 x 280	89603323
LLE 24x280mm 650lm 840 LV ADV5 BT*		4,000	SDCM 3	630	3.3	190	24 x 280	on demand
LLE 24x280mm 650lm 865 LV ADV5*		6,500	SDCM 3	630	3.3	191	24 x 280	on demand
LLE 24x560mm 1300lm 827 LV ADV5	>80	2,700	SDCM 3	1,140	6.6	173	24 x 560	89603324
LLE 24x560mm 1300lm 830 LV ADV5		3,000	SDCM 3	1,200	6.6	181	24 x 560	89603325
LLE 24x560mm 1300lm 835 LV ADV5*		3,500	SDCM 3	1,210	6.6	183	24 x 560	on demand
LLE 24x560mm 1300lm 840 LV ADV5		4,000	SDCM 3	1,260	6.6	190	24 x 560	89603327
LLE 24x560mm 1300lm 840 LV ADV5 BT*		4,000	SDCM 3	1,260	6.6	190	24 x 560	on demand
LLE 24x560mm 1300lm 865 LV ADV5*		6,500	SDCM 3	1,260	6.6	191	24 x 560	on demand

*Available on request; ¹⁾Tolerance range for optical and electrical data: ±10%; ²⁾ Operation mode NM, tp = 50 °C

LLE 24 mm 1,250 lm CRI80 LV ADV5 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x140mm 650lm 827 LV ADV5	>80	2,700	SDCM 3	570	3.3	173	24 x 140	89603330
LLE 24x140mm 650lm 830 LV ADV5*		3,000	SDCM 3	600	3.3	181	24 x 140	on demand
LLE 24x140mm 650lm 835 LV ADV5*		3,500	SDCM 3	605	3.3	183	24 x 140	on demand
LLE 24x140mm 650lm 840 LV ADV5*		4,000	SDCM 3	630	3.3	190	24 x 140	on demand
LLE 24x280mm 1250lm 827 LV ADV5	>80	2,700	SDCM 3	1,140	6.6	173	24 x 280	89603334
LLE 24x280mm 1250lm 830 LV ADV5		3,000	SDCM 3	1,200	6.6	181	24 x 280	89603335
LLE 24x280mm 1250lm 835 LV ADV5		3,500	SDCM 3	1,210	6.6	183	24 x 280	89603336
LLE 24x280mm 1250lm 840 LV ADV5		4,000	SDCM 3	1,260	6.6	190	24 x 280	89603337
LLE 24x280mm 1250lm 840 LV ADV5 BT*		4,000	SDCM 3	1,260	6.6	190	24 x 280	on demand
LLE 24x280mm 1250lm 865 LV ADV5*		6,500	SDCM 3	1,260	6.6	191	24 x 280	on demand
LLE 24x560mm 2400lm 827 LV ADV5	>80	2,700	SDCM 3	2,290	13.2	173	24 x 560	89603338
LLE 24x560mm 2400lm 830 LV ADV5		3,000	SDCM 3	2,390	13.2	181	24 x 560	89603339
LLE 24x560mm 2400lm 835 LV ADV5		3,500	SDCM 3	2,410	13.2	183	24 x 560	89603340
LLE 24x560mm 2400lm 840 LV ADV5		4,000	SDCM 3	2,510	13.2	190	24 x 560	89603341
LLE 24x560mm 2400lm 840 LV ADV5 BT		4,000	SDCM 3	2,510	13.2	190	24 x 560	89603472
LLE 24x560mm 2400lm 865 LV ADV5*		6,500	SDCM 3	2,520	13.2	191	24 x 560	on demand

*Available on request; ¹⁾Tolerance range for optical and electrical data: ±10%; ²⁾ Operation mode NM, tp = 50 °C

Module LLE

advanced series (ADV5)

Module width 24 mm

LLE 24 mm 650 lm CRI90 LV ADV5 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 65 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x280mm 650lm 927 LV ADV5	>90	2,700	SDCM 3	490	3.3	148	24 x 280	28003983
LLE 24x280mm 650lm 930 LV ADV5		3,000	SDCM 3	505	3.3	153	24 x 280	28003984
LLE 24x280mm 650lm 935 LV ADV5*		3,500	SDCM 3	510	3.3	154	24 x 280	on demand
LLE 24x280mm 650lm 940 LV ADV5		4,000	SDCM 3	530	3.3	160	24 x 280	28003988
LLE 24x560mm 1300lm 927 LV ADV5*	>90	2,700	SDCM 3	975	6.6	148	24 x 560	on demand
LLE 24x560mm 1300lm 930 LV ADV5		3,000	SDCM 3	1,010	6.6	153	24 x 560	28003988
LLE 24x560mm 1300lm 935 LV ADV5*		3,500	SDCM 3	1,020	6.6	154	24 x 560	on demand
LLE 24x560mm 1300lm 940 LV ADV5		4,000	SDCM 3	1,050	6.6	160	24 x 560	28003990

* Available on request; ¹⁾ Tolerance range for optical and electrical data: ±10 %; ²⁾ Operation mode NM, tp = 50 °C

LLE 24 mm 1,250 lm CRI90 LV ADV5 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x140mm 650lm 927 LV ADV5*	>90	2,700	SDCM 3	490	3.3	148	24 x 140	on demand
LLE 24x140mm 650lm 930 LV ADV5		3,000	SDCM 3	505	3.3	153	24 x 140	89603345
LLE 24x140mm 650lm 935 LV ADV5		3,500	SDCM 3	510	3.3	154	24 x 140	28003414
LLE 24x140mm 650lm 940 LV ADV5		4,000	SDCM 3	530	3.3	160	24 x 140	89603346
LLE 24x280mm 1250lm 927 LV ADV5	>90	2,700	SDCM 3	980	6.6	148	24 x 280	89603347
LLE 24x280mm 1250lm 930 LV ADV5		3,000	SDCM 3	1,010	6.6	153	24 x 280	89603348
LLE 24x280mm 1250lm 935 LV ADV5		3,500	SDCM 3	1,020	6.6	154	24 x 280	28003415
LLE 24x280mm 1250lm 940 LV ADV5		4,000	SDCM 3	1,060	6.6	160	24 x 280	89603349
LLE 24x560mm 2400lm 927 LV ADV5*	>90	2,700	SDCM 3	1,950	13.2	148	24 x 560	on demand
LLE 24x560mm 2400lm 930 LV ADV5		3,000	SDCM 3	2,020	13.2	153	24 x 560	89603351
LLE 24x560mm 2400lm 935 LV ADV5		3,500	SDCM 3	2,040	13.2	154	24 x 560	28003416
LLE 24x560mm 2400lm 940 LV ADV5		4,000	SDCM 3	2,110	13.2	160	24 x 560	89603352

* Available on request; ¹⁾ Tolerance range for optical and electrical data: ±10 %; ²⁾ Operation mode NM, tp = 50 °C

advanced series (ADV5)

Module width 16 mm



At a glance:

LLE 16 mm ADV5

- Module efficacy up to 201 lm/W
- Module length: 70 mm, 140 mm, 280 mm, 560 mm
- Colour temperatures: 2,700 K, 3,000 K, 4,000 K, 5,000 K and 6,500 K
- Long life time: 72,000 hours (L80 F10) and 5-year guarantee
- Available in CRI >80 and CRI >90

Guarantee 5 yrs Lifetime 72,000 hrs MacAdam 3

LLE 16 mm 650 lm CRI80 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 16x140mm 325lm 827 HV ADV5	>80	2,700	SDCM 3	335	1.8	180	16 x 140	89603385
LLE 16x140mm 325lm 830 HV ADV5		3,000	SDCM 3	350	1.8	188	16 x 140	89603386
LLE 16x140mm 325lm 840 HV ADV5		4,000	SDCM 3	360	1.8	198	16 x 140	89603387
LLE 16x140mm 325lm 850 HV ADV5*		5,000	SDCM 3	375	1.8	202	16 x 140	on demand
LLE 16x140mm 325lm 865 HV ADV5		6,500	SDCM 3	370	1.8	201	16 x 140	89603389
LLE 16x280mm 650lm 827 HV ADV5	>80	2,700	SDCM 3	670	3.7	180	16 x 280	89603390
LLE 16x280mm 650lm 830 HV ADV5		3,000	SDCM 3	700	3.7	188	16 x 280	89603391
LLE 16x280mm 650lm 840 HV ADV5		4,000	SDCM 3	730	3.7	198	16 x 280	89603392
LLE 16x280mm 650lm 850 HV ADV5		5,000	SDCM 3	750	3.7	202	16 x 280	89603393
LLE 16x280mm 650lm 865 HV ADV5		6,500	SDCM 3	740	3.7	201	16 x 280	89603394
LLE 16x560mm 1300lm 827 HV ADV5	>80	2,700	SDCM 3	1,330	7.3	180	16 x 560	89603395
LLE 16x560mm 1300lm 830 HV ADV5		3,000	SDCM 3	1,390	7.3	198	16 x 560	89603396
LLE 16x560mm 1300lm 840 HV ADV5		4,000	SDCM 3	1,460	7.3	198	16 x 560	89603397
LLE 16x560mm 1300lm 850 HV ADV5*		5,000	SDCM 3	1,500	7.3	202	16 x 560	on demand
LLE 16x560mm 1300lm 865 HV ADV5*		6,500	SDCM 3	1,480	7.3	201	16 x 560	on demand

* Available on request; ¹⁾ Tolerance range for optical and electrical data ±10 %; ²⁾ Operation mode NM, tp = 50 °C

LLE 16 mm 650 lm CRI90 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 16x140mm 325lm 927 HV ADV5	>90	2,700	SDCM 3	285	1.8	155	16 x 140	28003309
LLE 16x140mm 325lm 930 HV ADV5		3,000	SDCM 3	295	1.8	161	16 x 140	28003312
LLE 16x140mm 325lm 935 HV ADV5*		3,500	SDCM 3	300	1.8	162	16 x 140	on demand
LLE 16x140mm 325lm 940 HV ADV5		4,000	SDCM 3	310	1.8	168	16 x 140	28003314
LLE 16x280mm 650lm 927 HV ADV5	>90	2,700	SDCM 3	570	3.7	155	16 x 280	28003315
LLE 16x280mm 650lm 930 HV ADV5*		3,000	SDCM 3	590	3.7	160	16 x 280	on demand
LLE 16x280mm 650lm 935 HV ADV5*		3,500	SDCM 3	595	3.7	162	16 x 280	on demand
LLE 16x280mm 650lm 940 HV ADV5		4,000	SDCM 3	615	3.7	168	16 x 280	28003318
LLE 16x560mm 1300lm 927 HV ADV5*	>90	2,700	SDCM 3	1,140	7.3	155	16 x 560	on demand
LLE 16x560mm 1300lm 930 HV ADV5		3,000	SDCM 3	1,180	7.3	161	16 x 560	28003998
LLE 16x560mm 1300lm 935 HV ADV5*		3,500	SDCM 3	1,190	7.3	162	16 x 560	on demand
LLE 16x560mm 1300lm 940 HV ADV5		4,000	SDCM 3	1,230	7.3	168	16 x 560	28004000

* Available on request; ¹⁾ Tolerance range for optical and electrical data ±10 %; ²⁾ Operation mode NM, tp = 50 °C

advanced series (ADV5)

Module width 16 mm

LLE 16 mm 1,250 lm CRI80 HV ADV5 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy $\tau_p = 50^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 16x70mm 325lm 830 HV ADV5 QTY4*	>80	3,000	SDCM 3	300	1.7	181	16 x 70	on demand
LLE 16x70mm 325lm 840 HV ADV5 QTY4		4,000	SDCM 3	315	1.7	190	16 x 70	89603401
LLE 16x140mm 650lm 827 HV ADV5	>80	2,700	SDCM 3	575	3.3	173	16 x 140	89603402
LLE 16x140mm 650lm 830 HV ADV5		3,000	SDCM 3	600	3.3	181	16 x 140	89603403
LLE 16x140mm 650lm 835 HV ADV5*		3,500	SDCM 3	605	3.3	183	16 x 140	on demand
LLE 16x140mm 650lm 840 HV ADV5		4,000	SDCM 3	630	3.3	190	16 x 140	89603404
LLE 16x140mm 650lm 850 HV ADV5*		5,000	SDCM 3	645	3.3	195	16 x 140	on demand
LLE 16x140mm 650lm 865 HV ADV5*		6,500	SDCM 3	640	3.3	193	16 x 140	on demand
LLE 16x280mm 1250lm 827 HV ADV5		2,700	SDCM 3	1,140	6.6	173	16 x 280	89603407
LLE 16x280mm 1250lm 830 HV ADV5	3,000	SDCM 3	1,200	6.6	181	16 x 280	89603408	
LLE 16x140mm 650lm 835 HV ADV5*	>80	3,500	SDCM 3	1,210	6.6	183	16 x 280	on demand
LLE 16x280mm 1250lm 840 HV ADV5		4,000	SDCM 3	1,260	6.6	190	16 x 280	89603409
LLE 16x280mm 1250lm 850 HV ADV5*		5,000	SDCM 3	1,290	6.6	195	16 x 280	on demand
LLE 16x280mm 1250lm 865 HV ADV5*		6,500	SDCM 3	1,280	6.6	193	16 x 280	on demand
LLE 16x560mm 2400lm 827 HV ADV5	>80	2,700	SDCM 3	2,290	13.2	173	16 x 560	89603412
LLE 16x560mm 2400lm 830 HV ADV5		3,000	SDCM 3	2,390	13.2	181	16 x 560	89603413
LLE 16x140mm 650lm 835 HV ADV5*		3,500	SDCM 3	2,420	13.2	183	16 x 560	on demand
LLE 16x560mm 2400lm 840 HV ADV5		4,000	SDCM 3	2,510	13.2	190	16 x 560	89603414
LLE 16x560mm 2400lm 850 HV ADV5*		5,000	SDCM 3	2,580	13.2	195	16 x 560	on demand
LLE 16x560mm 2400lm 865 HV ADV5*		6,500	SDCM 3	2,550	13.2	193	16 x 560	on demand

*Available on request; ¹⁾Tolerance range for optical and electrical data $\pm 10\%$; ²⁾Operation mode NM, $\tau_p = 50^\circ\text{C}$ **LLE 16 mm 1,250 lm CRI90 HV ADV5 (non-SELV)**

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy $\tau_p = 50^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 16x70mm 325lm 930 HV ADV5 QTY4*	>90	3,000	SDCM 3	255	1.7	153	16 x 70	on demand
LLE 16x70mm 325lm 940 HV ADV5 QTY4*		4,000	SDCM 3	265	1.7	160	16 x 70	on demand
LLE 16x140mm 650lm 927 HV ADV5*	>90	2,700	SDCM 3	490	3.3	148	16 x 140	on demand
LLE 16x140mm 650lm 930 HV ADV5		3,000	SDCM 3	510	3.3	153	16 x 140	28004004
LLE 16x140mm 650lm 935 HV ADV5*		3,500	SDCM 3	510	3.3	154	16 x 140	on demand
LLE 16x140mm 650lm 940 HV ADV5		4,000	SDCM 3	530	3.3	160	16 x 140	28004006
LLE 16x280mm 1250lm 927 HV ADV5*	>90	2,700	SDCM 3	975	6.6	148	16 x 280	on demand
LLE 16x280mm 1250lm 930 HV ADV5		3,000	SDCM 3	1010	6.6	153	16 x 280	28004008
LLE 16x280mm 1250lm 935 HV ADV5*		3,500	SDCM 3	1020	6.6	154	16 x 280	on demand
LLE 16x280mm 1250lm 940 HV ADV5		4,000	SDCM 3	1060	6.6	160	16 x 280	28004010
LLE 16x560mm 2400lm 927 HV ADV5*	>90	2,700	SDCM 3	1,950	13.2	148	16 x 560	on demand
LLE 16x560mm 2400lm 930 HV ADV5		3,000	SDCM 3	2,030	13.2	153	16 x 560	28004012
LLE 16x560mm 2400lm 935 HV ADV5*		3,500	SDCM 3	2,040	13.2	154	16 x 560	on demand
LLE 16x560mm 2400lm 940 HV ADV5		4,000	SDCM 3	2,110	13.2	160	16 x 560	28004014

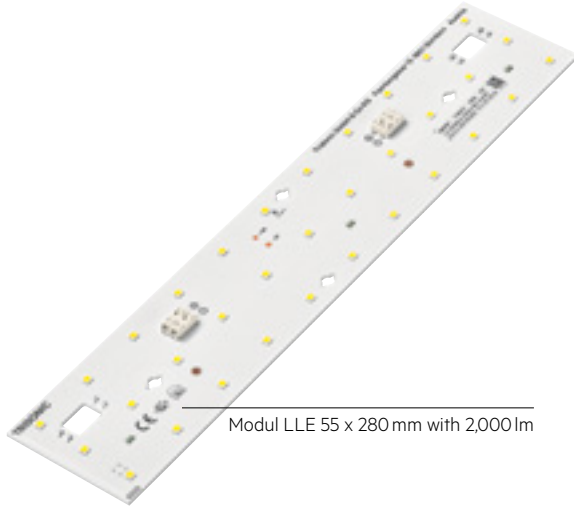
*Available on request; ¹⁾Tolerance range for optical and electrical data $\pm 10\%$; ²⁾Operation mode NM, $\tau_p = 50^\circ\text{C}$ **LLE 16 mm 2,000 lm CRI80 HV ADV5 (non-SELV)**

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy $\tau_p = 65^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 16x280mm 2000lm 830 HV ADV5	>80	3,000	SDCM 3	1,890	10.7	177	16 x 280	28004015
LLE 16x280mm 2000lm 840 HV ADV5		4,000	SDCM 3	2,000	10.7	186	16 x 280	28004016
LLE 16x280mm 4000lm 830 HV ADV5	>80	3,000	SDCM 3	3,800	21.4	177	16 x 560	28004017
LLE 16x280mm 4000lm 840 HV ADV5		4,000	SDCM 3	4,000	21.4	186	16 x 560	28004018

*Available on request; ¹⁾Tolerance range for optical and electrical data $\pm 10\%$; ²⁾Operation mode NM, $\tau_p = 65^\circ\text{C}$

advanced series (ADV5)

Module width 55 mm



At a glance:

LLE 55 mm ADV5

- Module efficacy up to 186 lm/W (NM, tp = 50 °C)
- Module length: 280 mm, 566 mm
(can be wired in parallel)
- Colour temperatures: 3,000 K, 3,500 K, 4,000 K, 5,000 K und 6.500 K
- Long life time: 72,000 hours (L80 F10) and 5-year guarantee
- Option for wiring on the back
- Compatible with various lenses available on the market (e.g. LEDiL, VS)

Guarantee 5 yrs

Lifetime 72,000 hrs

MacAdam 3

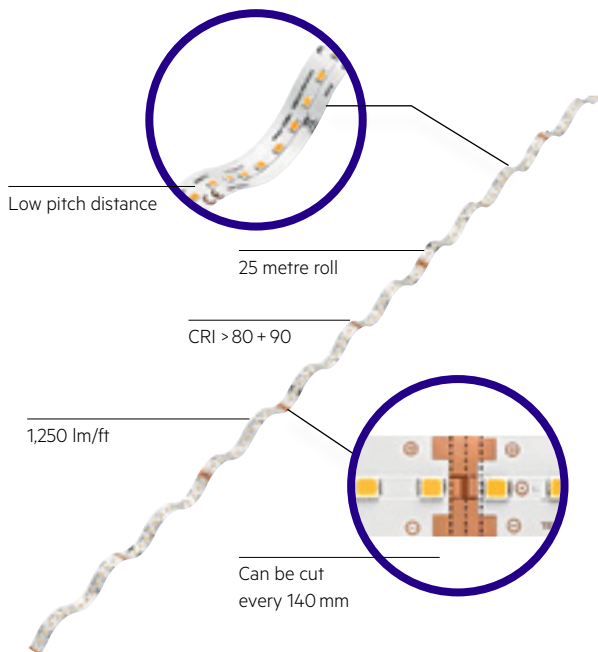
LLE 55 mm 2,000 lm CRI80 LV ADV5 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 55x280mm 2000lm 830 LV ADV5	>80	3,000	SDCM 3	2,040	11.5	177	55 x 280	89603417
LLE 55x280mm 2000lm 835 LV ADV5*		3,500	SDCM 3	2,060	11.5	179	55 x 280	on demand
LLE 55x280mm 2000lm 840 LV ADV5		4,000	SDCM 3	2,140	11.5	186	55 x 280	89603419
LLE 55x280mm 2000lm 850 LV ADV5		5,000	SDCM 3	2,190	11.5	191	55 x 280	89603420
LLE 55x280mm 2000lm 865 LV ADV5*		6,500	SDCM 3	2,170	11.5	189	55 x 280	on demand
LLE 55x566mm 4000lm 830 LV ADV5*	>80	3,000	SDCM 3	4,070	23.0	177	55 x 566	on demand
LLE 55x566mm 4000lm 835 LV ADV5*		3,500	SDCM 3	4.120	23.0	179	55 x 566	on demand
LLE 55x566mm 4000lm 840 LV ADV5		4,000	SDCM 3	4.290	23.0	186	55 x 566	89603424
LLE 55x566mm 4000lm 850 LV ADV5		5,000	SDCM 3	4.390	23.0	191	55 x 566	89603425
LLE 55x566mm 4000lm 865 LV ADV5*		6,500	SDCM 3	4.350	23.0	189	55 x 566	on demand

*Available on request; ¹⁾Tolerance range for optical and electrical data ±10 %; ²⁾Operation mode NM, tp = 50 °C

FLEX CC advanced (ADV2)

Constant current module



At a glance:

LLE FLEX CC 14 mm ADV2

- Cutting option every 140 mm means the length is always right
- Reduced logistics and production costs
- Easy installation thanks to weatherproof and long-lasting 3M adhesive tape on the back
- Two wiring options – without terminals (only suitable for soldering) or with pre-assembled WAGO 2065 terminals every 280 mm
- The flexible material and adaptable length help in the installation of oval, round and free-form luminaires
- Small pitch spacings save material and make profile luminaires easier to integrate where space is limited

Guarantee 5 yrs

Lifetime 60,000 hrs

MacAdam 3

High flexibility for profile and linear luminaires

Supplied off the reel as a flexible continuous row, the LLE FLEX CC advanced (ADV2) saves space in the warehouse. With the option of making a cut every 140 millimetres, the module always offers the right length for different profile and linear luminaires. Other features of the LLE FLEX CC include a high level of efficiency and excellent light quality.

The second module generation is produced at the Tridonic headquarters in Austria using an innovative reel-to-reel process that does not

require any soldering points and enables maximum flexibility. Each segment of the 14-millimetre wide, flexible continuous row is equipped with 16 high-quality LEDs. Small pitch distances guarantee that the lighting effect is extremely homogeneous and of a consistently high quality even over a length of three metres. WAGO 2065 terminals effectively eliminate undesired shadow formation. Pre-assembled in intervals of 280 millimetres, they also enable extremely quick and easy wiring. Thanks to the high-quality PCB and heat-conducting material, the modules can effortlessly withstand extreme conditions and guarantee faultless Operation throughout the entire life time.



FLEX CC advanced (ADV2)

Constant current module

LLE FLEX CC 14 mm 1,250 lm ADV2 (SELV)

Type	CRI	Colour temperatur (K)	Mac Adam	Typ. luminous flux ²⁾ (lm)	Typ. forward current ²⁾ (mA)	Typ. power ²⁾ (W)	Module efficacy tp = 55 °C ²⁾ (lm/W)	Order No.
Without terminals (OT)								
LLE FLEX CC 14x140R5 1250 827 OT ADV2	>80	2,700	SDCM 3	560	75	3.3	179	28003593
LLE FLEX CC 14x140R25 1250 830 OT ADV2		3,000	SDCM 3	580		3.3	179	28003437
LLE FLEX CC 14x140R5 1250 835 OT ADV2		3,500	SDCM 3	595	75	3.3	185	28003594
LLE FLEX CC 14x140R25 1250 840 OT ADV2		4,000	SDCM 3	615		3.3	185	28003439
LLE FLEX CC 14x140R5 1250 927 OT ADV2	>90	2,700	SDCM 3	485	75	3.3	168	28003595
LLE FLEX CC 14x140R25 1250 930 OT ADV2		3,000	SDCM 3	495		3.3	168	28003441
LLE FLEX CC 14x140R5 1250 935 OT ADV2		3,500	SDCM 3	500	75	3.3	174	28003596
LLE FLEX CC 14x140R25 1250 940 OT ADV2		4,000	SDCM 3	520		3.3	174	28003443
With pre-assembled WAGO 2065 terminals every 280 mm (2T)								
LLE FLEX CC 14x140R5 1250 827 2T ADV2	>80	2,700	SDCM 3	560	75	3.3	179	28003597
LLE FLEX CC 14x140R25 1250 830 2T ADV2		3,000	SDCM 3	580		3.3	179	28003445
LLE FLEX CC 14x140R5 1250 835 2T ADV2		3,500	SDCM 3	595	75	3.3	185	28003598
LLE FLEX CC 14x140R25 1250 840 2T ADV2		4,000	SDCM 3	615		3.3	185	28003447
LLE FLEX CC 14x140R5 1250 927 2T ADV2	>90	2,700	SDCM 3	485	75	3.3	168	28003599
LLE FLEX CC 14x140R25 1250 930 2T ADV2		3,000	SDCM 3	495		3.3	168	28003449
LLE FLEX CC 14x140R5 1250 935 2T ADV2		3,500	SDCM 3	500	75	3.3	174	28003600
LLE FLEX CC 14x140R25 1250 940 2T ADV2		4,000	SDCM 3	520		3.3	174	28003451

¹⁾ Tolerance range for optical and electrical data ±10 %; ²⁾ Specification for a segment (140 mm)

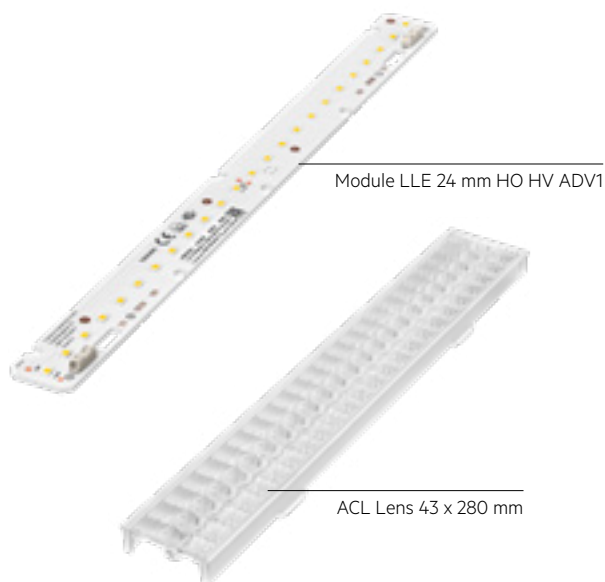
High Output advanced (ADV1)

For ACL Lens 43 x 280 mm

Perfect combination of optimally harmonized module and lens components for precise light control and homogeneous appearance.

The High Output modules are specially designed to fit to the new lens of Tridonic. This combination of module and lens provides uniform light throughout, even when several LED modules can be installed one

after the other in a row. Optical elements above each LED provide all-round glare control. Thanks to its micro structured surface the appearance is free of hot spots and the cleaning can be done quickly and easily. The High Output modules are available in two lengths with front or backside Terminals options. They can be driven up to 750 mA.



At a glance:

LLE 24 mm HO HV ADV1

- Module efficacy up to 190 lm/W (NM, tp = 50 °C)
- Module length: 280 mm, 560 mm
- Colour temperatures: 3,000 K, 4,000 K and 5,000 K
- Available in CRI > 80
- Non-SELV portfolio for serial wiring
- Optional with backside connector
- HO mode = 700 mA (I max = 750 mA)
- Compatible to single light point lens
ACL LENS 43 x 280 mm 30° / 60° / 90° / ASY / DAS Y

Guarantee 5 yrs	Lifetime 72,000 hrs	MacAdam 3
-----------------	---------------------	-----------

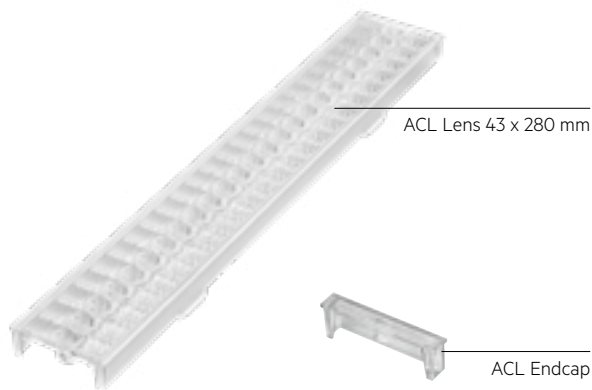
LLE 24 mm 1,250 lm High Output CRI80 HV ADV1 (non-SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy tp = 50 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24x280mm 1250lm 830 HO HV ADV1	>80	3,000	SDCM 3	1,130	6.6	171	24 x 280	89603528
LLE 24x280mm 1250lm 840 HO HV ADV1		4,000	SDCM 3	1,250	6.6	190	24 x 280	89603529
LLE 24x280mm 1250lm 840 HO HV ADV1 BT*		4,000	SDCM 3	1,250	6.6	190	24 x 280	on demand
LLE 24x280mm 1250lm 850 HO HV ADV1		5,000	SDCM 3	1,240	6.6	188	24 x 280	28003734
LLE 24x280mm 2400lm 830 HO HV ADV1	>80	3,000	SDCM 3	2,250	13.2	171	24 x 560	28003530
LLE 24x280mm 2400lm 840 HO HV ADV1		4,000	SDCM 3	2,500	13.2	190	24 x 560	28003531
LLE 24x280mm 2400lm 840 HO HV ADV1 BT*		4,000	SDCM 3	2,500	13.2	190	24 x 560	on demand
LLE 24x280mm 2400lm 850 HO HV ADV1		5,000	SDCM 3	2,500	13.2	188	24 x 560	28003739

*Available on request; ¹⁾ Tolerance range for optical and electrical data ±10 %; ²⁾ Operation mode NM, tp = 50 °C

High Output advanced (ADV1)

For ACL Lens 43 x 280 mm



At a glance:

ACL LENS 43x280 mm

- Light distributions: 30°, 60°, 90°, ASY and DASYS
- Fastening done with integrated plastic clips suitable for alu-extrusion and sheet metal providing IP20 protection together with endcaps
- Reduced glare in all directions based on single spot optical element above each LED
- Micro structured light surface lowers hot spots appearance and makes cleaning fast and easy
- PMMA material
- Suitable for 280 mm and 560 mm LLE 24 mm HO ADV1 modules

Type	Order No.
ACL LENS 43x280mm 30°	28003576
ACL LENS 43x280mm 60°	28003577
ACL LENS 43x280mm 90°	28003578
ACL LENS 43x280mm ASY	28003579
ACL LENS 43x280mm DASYS	28003580
ACL ENDCAP 43F	28003581
ACL ENDCAP 43M	28003582



ACL Lens 43 x 280 mm with LLE 24 mm HO ADV1 module

LLE modules for LEDiL DAISY lenses

A strong partnership for optimal office lighting

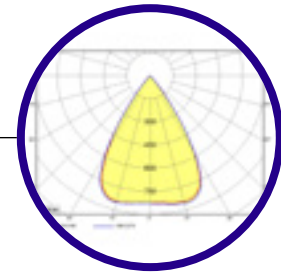
Optimal anti-glare office lighting with no disruptive reflections – the result of the partnership between Tridonic and lens manufacturer LEDiL.

The 20 and 24 millimetre wide LLE LVD modules of the advanced category (ADV) have been specially designed for use with the LEDiL lenses DAISY and DAISY-MINI. Precisely positioned LED chips lend this LED module and lens duo premium Darklight quality and thus all-round perfect glare suppression that far surpasses the required values of EN 12464.

With a UGR value < 19 , the module and lens form the ideal basis for standard-compliant office and workplace lighting. Tunable White modules make it possible to adjust the colour temperature individually, which can have a positive effect on well-being and concentration levels. With different lengths, the DAISY lens enables the realisation of a wide variety of luminaire types - from single luminaires to light channels. Plug-in terminals for front and rear wiring and the possibility of wiring directly from module to module also reduce the effort and simplify installation.



60°

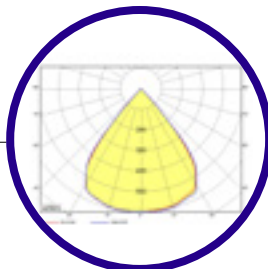


LLE 24 mm LVD ADV1
DAISY 60

60-degree beam angle

A 60° beam angle ensures light that is comfortable to work in. It provides accurate lighting for the task area and reduces glare, thus fulfilling the requirements of EN 12464-1 (UGR < 19 and luminance $L(65^\circ) < 1,500 \text{ cd/m}^2$). Tunable White modules come with the additional option of customised colour temperature regulation.

Source: LEDiL.com



LLE 24 mm LVD ADV1
DAISY 90

90-degree beam angle

A 90-degree beam angle illuminates faces more softly, creating an ideal atmosphere for conversations and meetings.



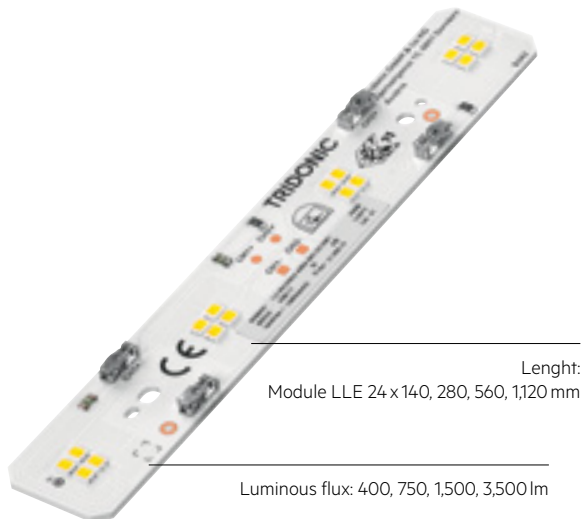
90°

Source: LEDiL.com

Module LLE

24 mm LVD advanced (ADV1)

For LEDiL DAISY lenses 4x1 / 7x1 / 28x1



At a glance:

LLE 24 mm LVD ADV1

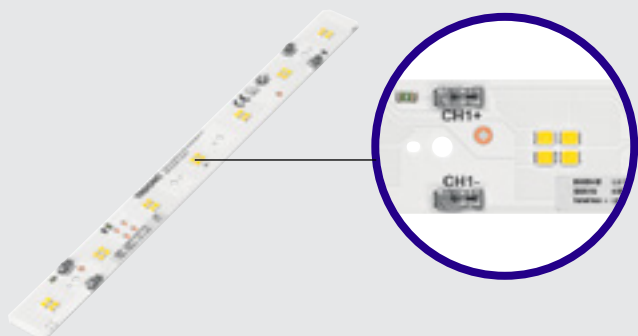
- Efficacy up to 185lm/W
- Module length: 140 mm, 280 mm, 560 mm, 1120 mm
- Colour temperatures: 3,000 K, 4,000 K and Tunable White
- Optimal terminal positions for easy wiring
- DAISY lenses available from LEDiL: 4 x1 / 7x1 / 28x1

Guarantee 5 yrs

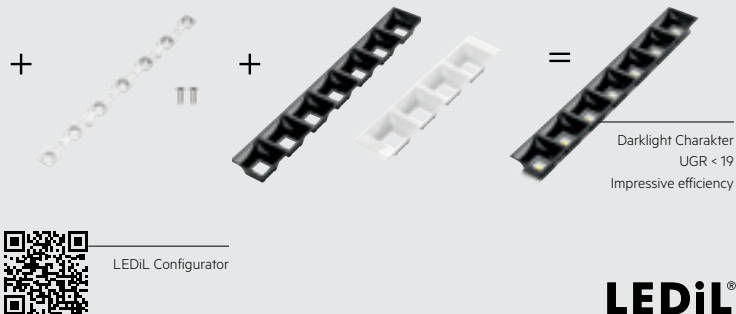
Lifetime 72,000 hrs

Partnership for optimal office lighting

Tridonic | Module LLE 24 mm LVD ADV1



LEDiL | DAISY lens system



LEDiL®

24 mm LVD advanced (ADV1)

For LEDiL DAISY lenses 4 x 1 / 7 x 1 / 28 x 1

LLE 24 mm CRI80 LVD ADV1 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy $\tau_p = 65^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 24 mm 400 lm LVD ADV1								
LLE 24x140mm 400lm 830 LVD ADV1	>80	3,000	SDCM 3	400	2.1	190	24 x 140	89603460
LLE 24x140mm 400lm 840 LVD ADV1		4,000	SDCM 3	420	2.1	200	24 x 140	89603461
LLE 24 mm 750 lm LVD ADV1								
LLE 24x280mm 750lm 830 LVD ADV1	>80	3,000	SDCM 3	700	3.7	189	24 x 280	89603462
LLE 24x280mm 750lm 840 LVD ADV1		4,000	SDCM 3	730	3.7	197	24 x 280	89603463
LLE 24x560mm 1500lm 830 LVD ADV1	>80	3,000	SDCM 3	1,400	7.5	187	24 x 560	89603464
LLE 24x560mm 1500lm 840 LVD ADV1		4,000	SDCM 3	1,470	7.5	196	24 x 560	89603465
LLE 24 mm 3,500 lm LVD ADV1								
LLE 24x1120mm 3500lm 830 LVD ADV1	>80	3,000	SDCM 3	3,500	18.8	186	24 x 1,120	89603466
LLE 24x1120mm 3500lm 840 LVD ADV1		4,000	SDCM 3	3,660	18.8	195	24 x 1,120	89603467

¹⁾ Tolerance range for electrical and optical data: $\pm 10\%$; ²⁾ Operation mode NM, $\tau_p = 65^\circ\text{C}$

LLE 24 mm 827-865 LVD ADV1 (SELV)

Type	Channel	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy $\tau_p = 65^\circ\text{C}^{2)}$ (lm/W)	Size (mm)	Order No.
LLE 24 mm 400 lm 827-865 LVD ADV1									
LLE 24x140mm 400lm 827-865 LVD ADV1	WW	>80	2,700-6,500	SDCM 3	370	2.2	168	24 x 140	89603468
	CW			SDCM 3	400	2.2	182		
LLE 24 mm 750 lm 827-865 LVD ADV1									
LLE 24x280mm 750lm 827-865 LVD ADV1	WW	>80	2,700-6,500	SDCM 3	650	3.8	171	24 x 280	89603469
	CW			SDCM 3	700	3.8	184		
LLE 24x560mm 1500lm 827-865 LVD ADV1	WW	>80	2,700-6,500	SDCM 3	1,300	7.7	169	24 x 560	89603470
	CW			SDCM 3	1,400	7.7	182		
LLE 24 mm 3,500 lm 827-865 LVD ADV1									
LLE 24x1120mm 3500lm 827-865 LVD ADV1	WW	>80	2,700-6,500	SDCM 3	3,210	19.4	165	24 x 1,120	89603471
	CW			SDCM 3	3,470	19.4	179		

¹⁾ Tolerance range for electrical and optical data: $\pm 10\%$; ²⁾ Operation mode NM, $\tau_p = 65^\circ\text{C}$

24 mm LVD advanced (ADV1)

For LEDiL DAISY lenses 4 x 1 / 7 x 1 / 28 x 1

LLE 24 mm CRI90 LVD ADV1 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy tp = 65 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24 mm 400 lm LVD ADV1								
LLE 24x140mm 400lm 930 LVD ADV1	>90	3,000	SDCM 3	350	2.1	163	24 x 140	28003486
LLE 24x140mm 400lm 940 LVD ADV1		4,000	SDCM 3	360	2.1	170	24 x 140	28003487
LLE 24 mm 750 lm LVD ADV1								
LLE 24x280mm 750lm 930 LVD ADV1	>90	3,000	SDCM 3	610	3.7	163	24 x 280	28003488
LLE 24x280mm 750lm 940 LVD ADV1		4,000	SDCM 3	630	3.7	170	24 x 280	28003489
LLE 24x560mm 1500lm 930 LVD ADV1	>90	3,000	SDCM 3	1,220	7.5	163	24 x 560	28003490
LLE 24x560mm 1500lm 940 LVD ADV1		4,000	SDCM 3	1,270	7.5	170	24 x 560	28003491
LLE 24 mm 3,500 lm LVD ADV1								
LLE 24x1120mm 3500lm 930 LVD ADV1	> 90	3,000	SDCM 3	3,030	18.8	161	24 x 1,120	28003492
LLE 24x1120mm 3500lm 940 LVD ADV1		4,000	SDCM 3	3,170	18.8	168	24 x 1,120	28003493

¹⁾ Tolerance range for electrical and optical data: ±10%; ²⁾ Operation mode NM, tp = 65 °C

LLE 24 mm 927-965 LVD ADV1 (SELV)

Type	Channel	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ¹⁾ (W)	Module efficacy tp = 65 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 24 mm 400 lm 927-965 LVD ADV1									
LLE 24x140mm 400lm 927-965 LVD ADV1	WW	>90	2,700 – 6,500	SDCM 3	320	2.2	146	24 x 140	28003494
	CW			SDCM 3	350	2.2	159		
LLE 24 mm 750 lm 927-965 LVD ADV1									
LLE 24x280mm 750lm 927-965 LVD ADV1	WW	>90	2,700 – 6,500	SDCM 3	560	3.8	146	24 x 280	28003495
	CW			SDCM 3	610	3.8	158		
LLE 24x560mm 1500lm 927-965 LVD ADV1	WW	>90	2,700 – 6,500	SDCM 3	1,120	7.7	145	24 x 560	28003496
	CW			SDCM 3	1,210	7.7	157		
LLE 24 mm 3,500 lm 927-965 LVD ADV1									
LLE 24x1120mm 3500lm 927-965 LVD ADV1	WW	>90	2,700 – 6,500	SDCM 3	2,770	19.4	142	24 x 1,120	28003497
	CW			SDCM 3	3,010	19.4	155		

¹⁾ Tolerance range for electrical and optical data: ±10%; ²⁾ Operation mode NM, tp = 65 °C

20 mm LV MD advanced (ADV1)

For LEDiL DAISY-MINI



LLE 20x280 mm LV MD ADV1

At a glance:

LLE 20 mm LV MD ADV1

- Efficiency up to 185 lm/W
- Module length: 280 mm
- Colour temperatures: 3,000 K, 4,000 K and Tunable White
- Colour rendering: CRI > 80, CRI > 90
- Designed for the DAISY-MINI portfolio by LEDiL
- Push terminals for quick and easy wiring

Guarantee 5 yrs

Lifetime 72,000 hrs

LLE 20 mm 750 lm CRI80 LV MD ADV1 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 55 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 20x280mm 750lm 830 LV MD ADV1	>80	3,000	SDCM 3	720	3.7	189	20 x 280	28003855
LLE 20x280mm 750lm 840 LV MD ADV1		4,000		750		197	20 x 280	28003856
LLE 20x280mm 750lm 827-865 LV MD ADV1	>80	2,700-6,500	SDCM 3	740	3.8	190	20 x 280	28003857

¹⁾ Tolerance range for electrical and optical data: ±10%; ²⁾ Operation mode NM; tp = 55 °C

LLE 20 mm 750 lm CRI90 LV MD ADV1 (SELV)

Type	CRI	Colour temperature (K)	Mac Adam	Typ. luminous flux ¹⁾ (lm)	Typ. power consumption ²⁾ (W)	Module efficacy tp = 55 °C ²⁾ (lm/W)	Size (mm)	Order No.
LLE 20x280mm 750lm 930 LV MD ADV1	>90	3,000	SDCM 3	610	3.8	159	20 x 280	28003858
LLE 20x280mm 750lm 940 LV MD ADV1		4,000		635		167	20 x 280	28003859
LLE 20x280mm 750lm 927-965 LV MD ADV1	>90	2,700-6,500	SDCM 3	690	4.4	152	20 x 280	28003860

¹⁾ Tolerance range for electrical and optical data: ±10%; ²⁾ Operation mode NM; tp = 55 °C



Activating light (EXC1)

Promotes well-being and concentration

The biological influence of light on people is well known and proven, and today it is used specifically to increase well-being. This is also the case in offices, where the right light energises employees and improves their concentration.

The linear excite module (EXC1) with Activating Light uses LEDs for this purpose. They produce light with 4200 kelvin, a high cyan component and high homogeneity which is retained even if several modules are combined in an array. The excite module (EXC1) therefore provides pleasant light that is ideal for offices or workplaces that require a high levels of concentration.

At a glance:

Module LLE 24 mm 1100 lm activating Light HV EXC1

- Ideal for linear and area luminaires
- Perfect light homogeneity, even when several modules are lined up of several modules
- Colour temperature: 4,200 K
- Melanopic proportion MEER 0.91
- Module lengths: 280, 560 mm
- Plug-in terminals for quick and easy wiring
- Large assortment of matching extruded lenses and covers

Module LLE 24 mm 1100 lm activating Light HV EXC1



Guarantee 5 yrs

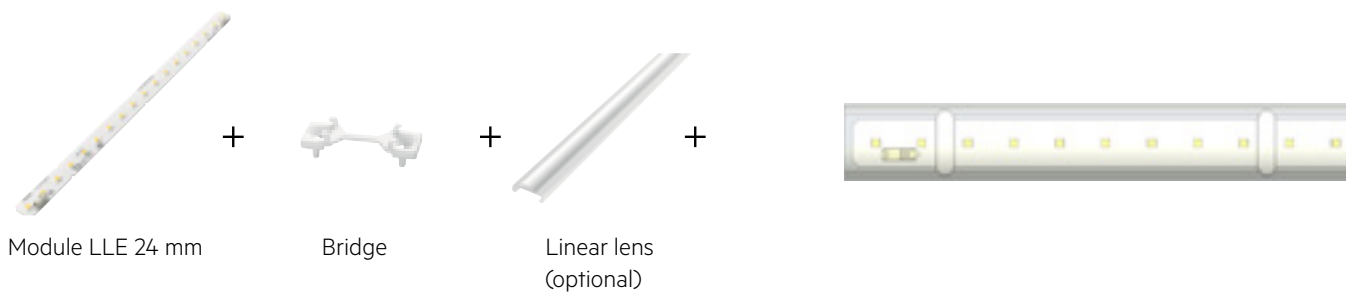
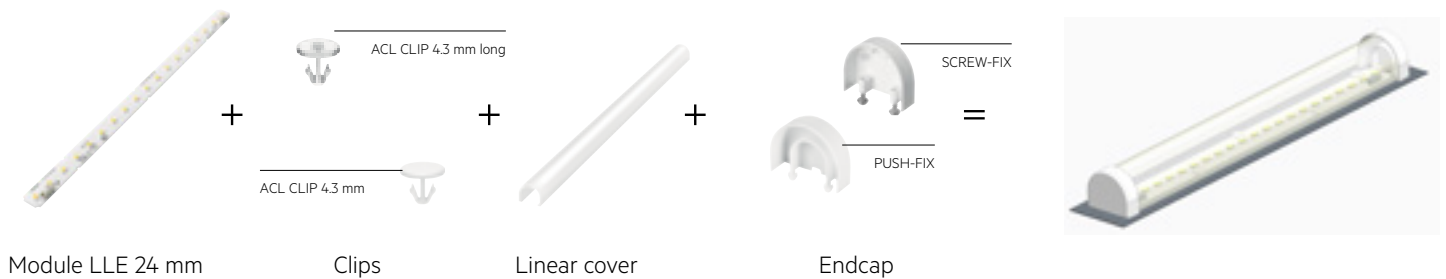
Lifetime 60,000 hrs

Most professional LED-refurbishment

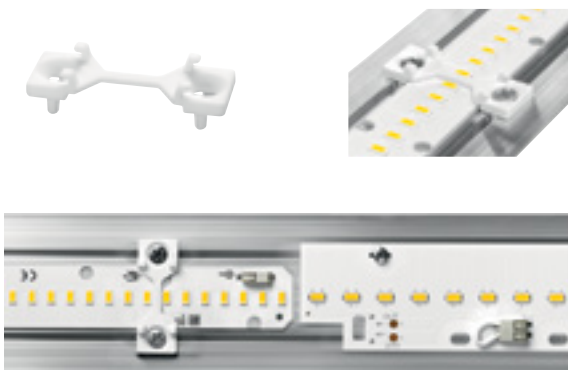
Unlike the usual retrofit offers on the market, the response from Tridonic is the first complete professional solution for upgrading existing luminaire designs to LEDs.

Appropriate accessories from Tridonic provide quick and easy LED upgrades for linear fluorescent luminaires (T5 and T8) without the need for any tools. Covers with different diffusers and close-fitting end caps enclose module LLE and protect it against accidental contact. The modules are held in place by clips rather than screws.

Accessories for converting to LLE 24 mm modules



With the ACL Bridge LLE 24/40 SREW-Fix, Tridonic offers a simple, compact solution for connecting modules from other manufacturer to use 24 mm LLE modules from Tridonic — without any geometric changes to the carrier profile.



At a glance: ACL BRIDGE

- Easy conversion from 40 mm Zhaga modules to Tridonic 24 mm
- Easy assembly in luminaire manufacturing due to pre-alignment knobs
- Integrated clip-on option for linear cover
- Fits to all module LLE 24 mm
- Luminaire OEM does not need to modify extruded aluminum profile when switching from other supplier's modules to Tridonic LLE modules

Most professional LED refurbishment

Your benefits

Quick and easy upgrades to LED lighting

- PUSH-FIX mounting; no tools required
- Simple clip fixing of the LLE modules
- Standard-compliant contact protection

Homogeneous light thanks to covers

- Selection of diffusers as covers
- High transmission: transparent 94 %, semi-transparent 87 %, diffused 76 %

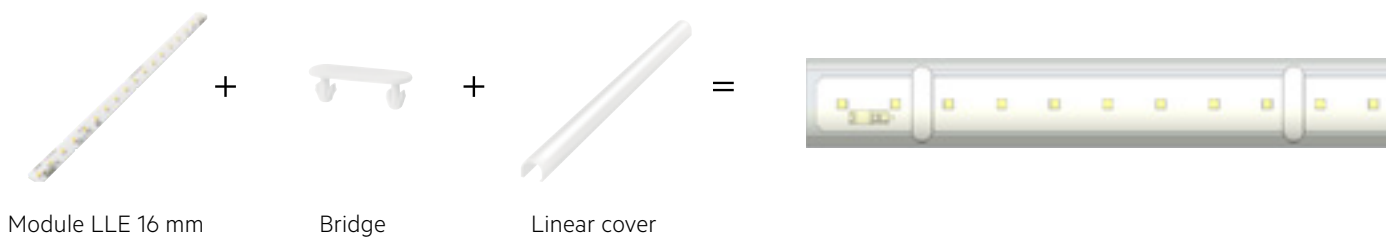
Tridonic offers a professional solution compared with LED retrofit tubes

- High system efficiency
- Precisely adjustable luminous flux
- Long life-time
- Optimum distribution and quality of light
- Any lengths for strip lights
- No maintenance required
- Large selection of light colours

From a single source

- Tridonic offers you its wide range of products from a single source: LED modules, LED drivers and accessories.
- For switching to LED lighting Tridonic offers a complete solution package with optimum compatibility and extensive module versions
- High system efficiency is guaranteed by the matching converters

Accessoires for converting to LLE 16 mm modules



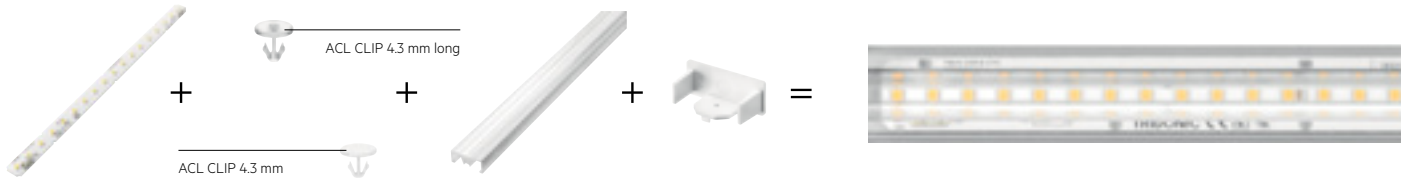
Module LLE 16 mm is installed flush in the luminaire. This ensures the necessary protection against accidental contact for non-SELV luminaires.

Type	Length (mm)	Colour	Order No.
Accessories for LLE 24 mm modules			
LINEAR COVER SY Transparent 1600mm	1,600	Transparent	28000338
LINEAR COVER SY Frosted 1800mm	1,800	Semi-transparent	28000437
LINEAR COVER SY Frosted 1600mm	1,600	Semi-transparent	28000339
LINEAR COVER SY Frosted 1500mm	1,500	Semi-transparent	28000435
LINEAR COVER SY Frosted 1200mm	1,200	Semi-transparent	28000422
LINEAR COVER SY Frosted 597mm	597	Semi-transparent	28000340
LINEAR COVER SY Diffuse 1800mm	1,800	Diffuse	28000438
LINEAR COVER SY Diffuse 1600mm	1,600	Diffuse	28000341
LINEAR COVER SY Diffuse 1500mm	1,500	Diffuse	28000436
LINEAR COVER SY Diffuse 1200mm	1,200	Diffuse	28000434
LINEAR COVER SY Diffuse 597mm	597	Diffuse	28000342
ACL BRIDGE LLE24/40mm SCREW-FIX	42 x 15 x 9.8	White	28001205
ACL ENDCAP LLE24mm PUSH-FIX	38.4 x 30.3	White	28001037
ACL ENDCAP LLE24mm SCREW-FIX	38.4 x 30.3	White	28002315
ACL ENDCAP LENS 24mm PSF	32 x 14	White	28002669
ACU CLIP 4.3mm PUSH-FIX	∅ 9/7.4	White	28001036
ACU CLIP 4.3mm PUSH-FIX Long	∅ 9/8.1	Transparent	28002314

Type	Length (mm)	Colour	Order No.
Accessories for LLE 16 mm modules			
ACL LINEAR COVER 16x1600mm FROSTED	1,600	Semi-transparent	28000950
ACL LINEAR COVER 16x1600mm DIFFUSE	1,600	Diffuse	28000951
ACL LINEAR COVER 16x1200mm FROSTED	1,200	Semi-transparent	28002827
ACL LINEAR COVER 16x1200mm DIFFUSE	1,200	Diffuse	28002828
ACL BRIDGE LLE16mm PUSH-FIX	22	White	28001035

Optical lenses for perfect light control

For module LLE 24 mm



Module LLE 24 mm

Clips

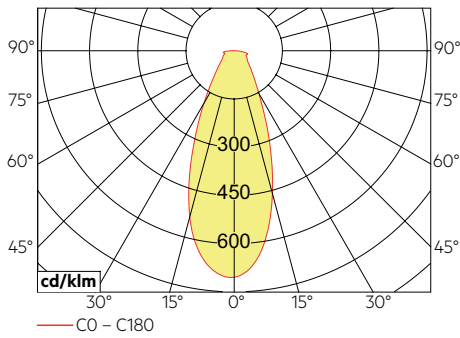
Linear lens

Endcap

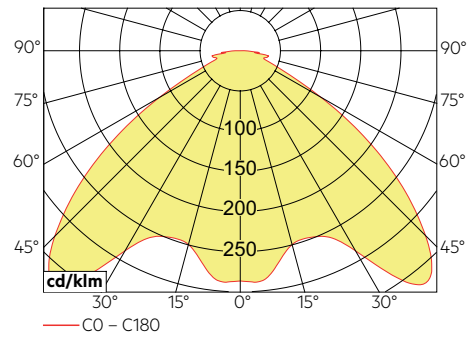
The robust PMMA covers for the LLE 24 mm modules have four beam angles, meeting a wide variety of lighting requirements. While asymmetrical (ASY) and double asymmetrical (DASY) LENSES are used especially for shelving and walkway lighting in hypermarkets

and supermarkets, the batwing LENS offers homogeneous light distribution, and the Intense version provides targeted light even from great heights.

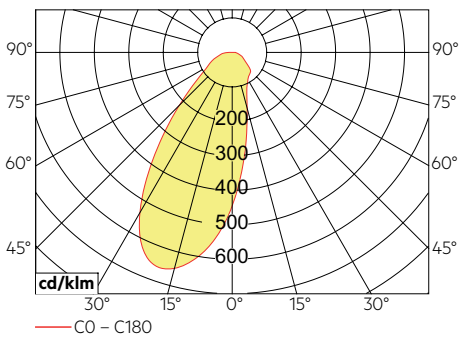
Light distribution for ACL LINEAR LENS INTENSE



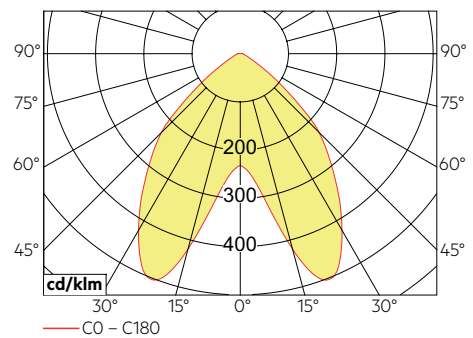
Light distribution for ACL LINEAR LENS BATWING



Light distribution for ACL LINEAR LENS ASY



Light distribution for ACL LINEAR LENS DASY



Optical lenses for perfect light control

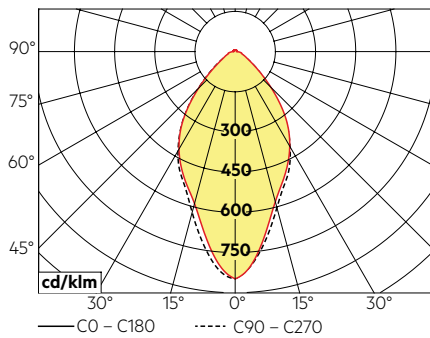
For module LLE 55 mm



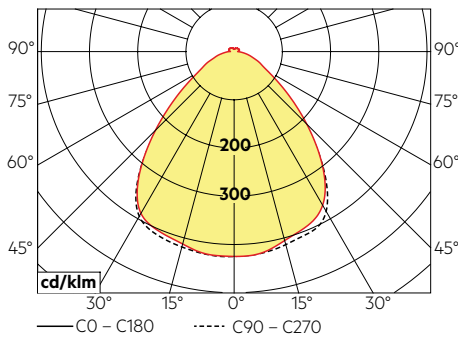
The PMMA LENSES complement the LLE 55 mm modules and drivers to create a complete solution for offices and supermarkets. In addition to the 60 and 90 degree beam angles, users also have

a choice of ASY and DASY covers, which emit light on either one side or both sides. To ensure standard-compliant office lighting, glare can be reduced with the help of the additional SHADE shutter.

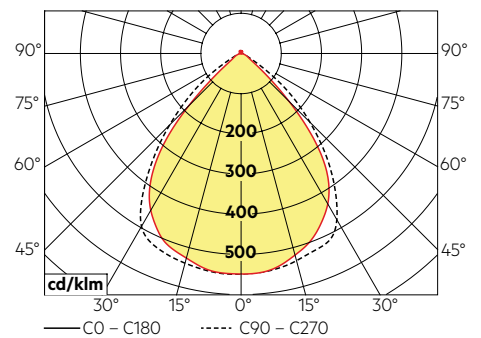
Light distribution for ACL LENS 55x280 mm 60°



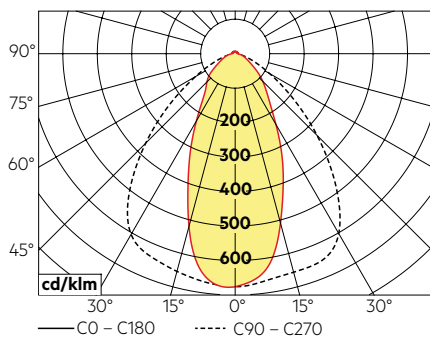
Light distribution for ACL LENS 55x280 mm 90°



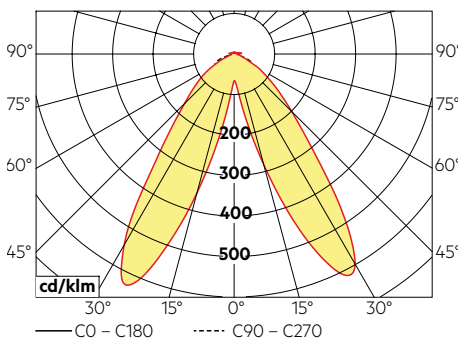
Light distribution for ACL LENS 55x280 mm 90° with SHADE



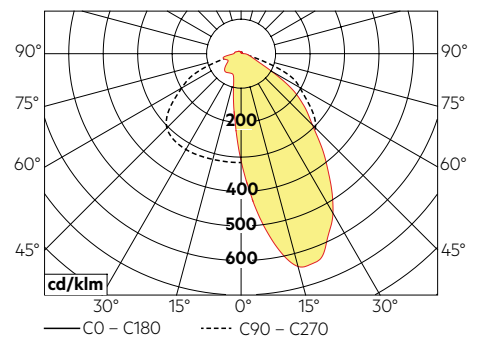
Light distribution for ACL LENS 55x280 mm 90x45°



Light distribution for ACL LENS 55x280 mm DA 25°



Light distribution for ACL LENS 55x280 mm A20°



Optical lenses for perfect light control

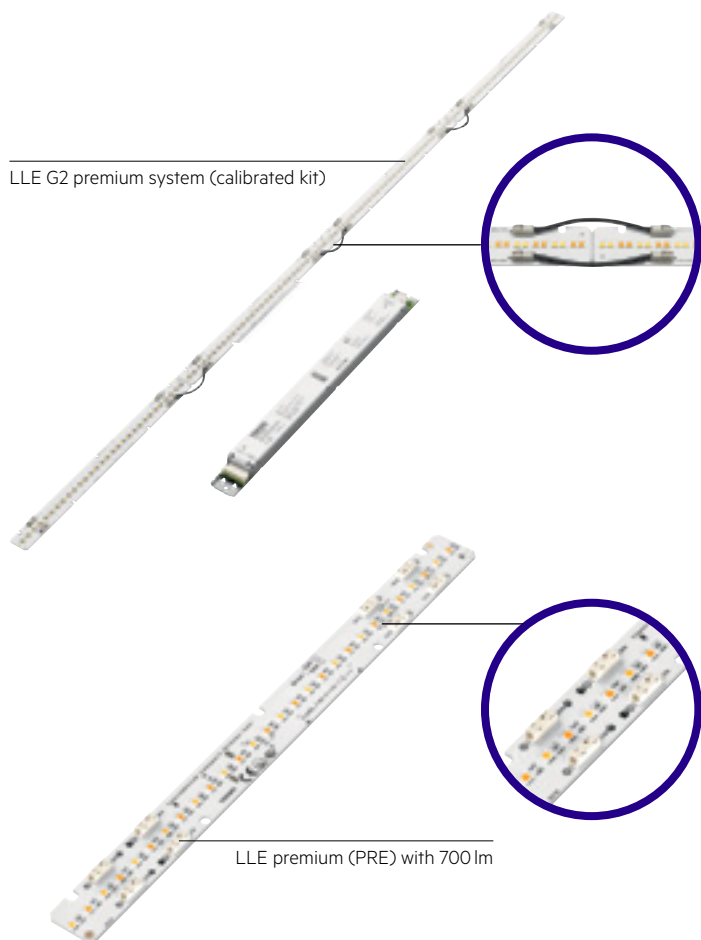
Type	Length (mm)	Colour	Order No.
Lens accessories for LLE 55 mm modules			
ACL LINEAR LENS 24x1200mm 60°	1,200	Semi-transparent	28001428
ACL LINEAR LENS 24x1200mm 90°	1,200	Semi-transparent	28001429
ACL LINEAR LENS 24x1600mm 60°	1,600	Semi-transparent	28000953
ACL LINEAR LENS 24x1600mm 90°	1,600	Semi-transparent	28000955
ACL LINEAR LENS 24x1200mm INTENSE	1,200	Semi-transparent	28002024
ACL LINEAR LENS 24x1500mm INTENSE	1,500	Semi-transparent	28002025
ACL LINEAR LENS 24x1800mm INTENSE	1,800	Semi-transparent	28002026
ACL LINEAR LENS 24x1200mm BATWING	1,200	Semi-transparent	28002027
ACL LINEAR LENS 24x1500mm BATWING	1,500	Semi-transparent	28002028
ACL LINEAR LENS 24x1800mm BATWING	1,800	Semi-transparent	28002029
ACL LINEAR LENS 24x1200mm ASY	1,200	Semi-transparent	28002030
ACL LINEAR LENS 24x1500mm ASY	1,500	Semi-transparent	28002031
ACL LINEAR LENS 24x1800mm ASY	1,800	Semi-transparent	28002032
ACL LINEAR LENS 24x1200mm DASY	1,200	Semi-transparent	28002033
ACL LINEAR LENS 24x1500mm DASY	1,500	Semi-transparent	28002034
ACL LINEAR LENS 24x1800mm DASY	1,800	Semi-transparent	28002035

Type	Length (mm)	Colour	Order No.
Lens accessories for LLE 55 mm modules			
ACL LENS 55x280mm 60°	280	Semi-transparent	28002206
ACL LENS 55x280mm 90°	280	Semi-transparent	28002207
ACL LENS 55x280mm 90°x45°	280	Semi-transparent	28002208
ACL LENS 55x280mm DA25°	280	Semi-transparent	28002209
ACL LENS 55x280mm A20°	280	Semi-transparent	28002210
ACL LENS 55x280mm UGR	280	Black	28002211



premium series (PRE2)

Tunable White single modules and calibrated kits



At a glance:

LLE G2 24 mm PRE

- LED modules also available individually
- Linear Tunable White system with infinitely adjustable colour temperature between 2,700 K and 6,500 K
- Available in CRI > 90
- Sets calibrated at the factory to ensure high quality of light and colour consistency (SDCM 3) across the entire adjustable range
- Dimming range of 1% ---> 3% without changing the colour temperature
- Low-profile LED drivers with digital interface (DALI DT8, DSI, switchDIM, colourSWITCH) and very low standby power
- Linear LED modules with 700 lm and 1,500 lm
- LED modules also available separately

Guarantee 5 yrs Lifetime 50,000 hrs

Tunable White systems of Tridonic gives you the option of setting the colour temperature of white light to any value between 2,700 K to 6,500 K. This function is essential for contemporary biologically effective lighting solutions which aim to simulate natural light indoors. The light in daylight quality promotes a feeling of well-being and productivity for people who have to spend many hours a day in artificial light. This explains the high importance attached to lighting concepts involving Tunable White and optimum light quality in offices, education establishments and health care facilities.

Our linear Tunable White systems are precalibrated at the factory and offered in kits comprising a converter and 2 to 6 LED modules. Constant luminous flux over the entire adjustable colour temperature range is particularly important for professional room planning. Our Tunable White system opens up a really interesting area of application, not least thanks to its reproducible and consistent colour rendering. In addition, the Tunable White modules are also available individually and can therefore be used with LED drivers from our driver portfolio in any combination. Use LED drivers from the premium series (PRE) to control your Tunable White solution via DT8.

premium series (PRE2)

Tunable White single modules and calibrated kits

LLE G2 premium system (calibrated kit)

Type	Colour temperature (K)	Typ. luminous flux ¹⁾ (lm)	CRI	Mac Adam	Typ. power consumption ²⁾ (W)	System efficacy ³⁾ tp = 65 °C (lm/W)	Size per module (mm)	Order No.
LLE G2 24x280mm 3x700lm 927-965 LV PRE (1 LED driver 50W + 3 LED module à 700lm)	2,700–6,500 Tunable White	2.100	>90	SDCM 3	19,3	bis zu 117	24 x 280	89602931
LLE G2 24x280mm 4x700lm 927-965 LV PRE (1 LED driver 50W + 4 LED module à 700lm)	2,700–6,500 Tunable White	2.800	>90	SDCM 3	24,8	bis zu 121	24 x 280	89602932
LLE G2 24x280mm 5x700lm 927-965 LV PRE (1 LED driver 50W + 5 LED module à 700lm)	2,700–6,500 Tunable White	3.500	>90	SDCM 3	30,1	bis zu 124	24 x 280	89602933
LLE G2 24x280mm 6x700lm 927-965 LV PRE (1 LED driver 50W + 6 LED module à 700lm)	2,700–6,500 Tunable White	4.200	>90	SDCM 3	36,1	bis zu 125	24 x 280	89602934
LLE G2 24x280mm 2x1500lm 927-965 LV PRE (1 LED driver 50W + 2 LED module à 1,500lm)	2,700–6,500 Tunable White	3.000	>90	SDCM 3	26,9	bis zu 120	24 x 280	89602935
LLE G2 24x280mm 3x1500lm 927-965 LV PRE (1 LED driver 50W + 3 LED module à 1,500lm)	2,700–6,500 Tunable White	4.500	>90	SDCM 3	38,6	bis zu 125	24 x 280	89602936
LLE 24x280mm 4x1500lm 927-965 LV PRE2 (1 LED driver 85W + 4 LED module à 1,500lm)	2,700–6,500 Tunable White	6.000	>90	SDCM 3	48,1	bis zu 134	24 x 280	28003303
LLE 24x280mm 5x1500lm 927-965 LV PRE2 (1 LED driver 85W + 5 LED module à 1,500lm)	2,700–6,500 Tunable White	7.500	>90	SDCM 3	59,7	bis zu 136	24 x 280	28003304
LLE G2 24x280mm 6x1500lm 927-965 LV PRE (1 LED driver 100W + 6 LED module à 1,500lm)	2,700–6,500 Tunable White	9.000	>90	SDCM 3	77,1	bis zu 126	24 x 280	89602939

¹⁾ Tolerance range photometric data over the entire CCT range: ±5 %; ²⁾ Tolerance range electrical data: ±5 %; ³⁾ Measured at 4,000 K

LLE G2 premium (module)

Type	Colour temperature (K)	Typ. luminous flux ¹⁾ (lm)	Mac Adam	Size (mm)	Order No.
LLE G2 24x280mm 700lm 927-965 PRE (LED module)	2,700	670	SDCM 3	24 x 280	89602922
	6,500	740	SDCM 3	24 x 280	
LLE G2 24x560mm 1400lm 927-965 LV PRE* (LED module)	2,700	1,340	SDCM 3	24 x 560	on demand
	6,500	1,470	SDCM 3	24 x 560	
LLE G2 24x140mm 750lm 927-965 PRE (LED module)	2,700	720	SDCM 3	24 x 140	28003703
	6,500	790	SDCM 3	24 x 140	
LLE G2 24x280mm 1500lm 927-965 PRE (LED module)	2,700	1,470	SDCM 3	24 x 280	89602923
	6,500	1,610	SDCM 3	24 x 280	
LLE G2 24x280mm 700lm 927-965 PRE (LED module)	2,700	2,930	SDCM 3	24 x 560	28003704
	6,500	3,220	SDCM 3	24 x 560	

*Available on request; ¹⁾ Tolerance range for optical data over the CCT range: ±5 %

Matching driver (in each kit included)

Driver LCA 50W 350–1050mA DT8 Ip PRE	Driver LCA 85W 600–1800mA DT8 Ip PRE	Driver LCA 100W 350–1050mA 2xDT8 Ip PRE
--------------------------------------	--------------------------------------	---



Size: 360 x 30 x 21 mm
3–6 LLE modules à 700lm
2–3 LLE modules à 1,500lm



Size: 360 x 30 x 21 mm
4–5 LLE modules à 1,500lm



Size: 360 x 40 x 21 mm
6 LLE modules à 1,500lm

Present worldwide

AUSTRALIA

Tridonic Australia Pty Ltd
2/7 Millner Ave
Horsley Park, NSW 2175
Australia
T +61 2 9832 6600
F +61 2 9832 6688
www.tridonic.com
infoau@tridonic.com

AUSTRIA

Tridonic GmbH & Co KG
(Headquarters)
Färbergasse 15
6851 Dornbirn, Austria
T +43 5572 395-0
F +43 5572 20176
www.tridonic.com
sales@tridonic.com

Tridonic GmbH & Co KG
Sales Austria
Archenweg 58
6022 Innsbruck, Austria
T +43 512 3321 554
F +43 512 3321 995554
www.tridonic.com
vertrieb.austria@tridonic.com

CHINA

Tridonic (Shanghai) Co., Ltd.
(Headquarters)
Room 602, Building B
Zhongshan International Plaza
No. 789 Tianshan Road
Shanghai, 200335, China
T +86 21 52400 599
F +86 21 52400 230
www.tridonic.com
china@tridonic.com

Tridonic (Shanghai) Co., Ltd.
Beijing Branch
Room 1207, No. 3, Yard 1
Tian Xin Street,
Fang Shan District
Beijing, 102446, China
T +86 10 6522 6163
F +86 10 6522 7003
www.tridonic.com
china@tridonic.com

Tridonic (Shanghai) Co., Ltd.
Guangzhou Branch
Room 505, R & F Profit Plaza
76 Huangpu Xi Road, Tianhe District
Guangzhou, 510623, China
T +86 20 3839 2483
F +86 20 3839 2482
www.tridonic.com
china@tridonic.com

FRANCE

Tridonic France SARL
8 Rue de Bruxelles
ZI Krafft
67150 Erstein, France
T +33 3 88 59 62 70
F +33 3 88 59 62 75
www.tridonic.fr
info.france@tridonic.com

GERMANY

Tridonic Deutschland GmbH
Edisonallee 1
89231 Neu-Ulm
Germany
T +49 731 176629-0
F +49 731 176629-15
www.tridonic.de
vertrieb.deutschland@tridonic.com

ITALY

Tridonic Italia srl
Via G. Savelli, 86
35129 Padova
Italy
T +39 049 89 45 127
www.tridonic.it
vendite.italia@tridonic.com

KOREA

Tridonic Korea LLC
Mark Kim
#808 HanHwa BizMetro II
551-24 Yangcheon-ro
Gangseo-gu Seoul
Republic of Korea (South)
T +82 10 9922 3878
www.tridonic.kr
mark.kim@tridonic.com

MALAYSIA

Tridonic Malaysia Sdn Bhd
V03-10-01 Designer Office,
Lingkaran SV,
Sunway Velocity, Cheras
55100 Kuala Lumpur
Malaysia
T +60 3 2733 6484
T +60 3 2733 6485
www.tridonic.com
asean@tridonic.com

MIDDLE EAST

Tridonic Middle East (FZE)
Warehouse LB 4 Blue Shed Area,
JAFZA North, Jebel Ali
P.O. Box 17972
Dubai, United Arab Emirates
T +971 4 8833 664
F +971 4 8833 665
www.tridonic.ae
sales.middleeast@tridonic.com

NEW ZEALAND

Tridonic New Zealand
PO Box 71134, Rosebank
Auckland 1348
27 Jomac Place, Avondale
Auckland 1026
T +64 9820 1119
F +64 9820 4471
www.tridonic.com
sales@tridonic.co.nz

POLAND

Tridonic Rep. Office Poland
Poland
www.tridonic.com
marek.michalski@tridonic.com

PORTUGAL

Tridonic Portugal, Unipessoal Lda.
Rotunda Engenheiro
Edgar Cardoso, 23, piso 8
Vila Nova de Gaia 4400-676
Portugal
T +351 938 448 467
www.tridonic.com
ventas@tridonic.com

SINGAPORE

Tridonic S. E. A. Pte Ltd
158 Kallang Way
#06-02
349245 Singapore
Singapore
T +65 6749 9071
F +65 6293 3700
www.tridonic.com
asean@tridonic.com

SOUTH AFRICA

Tridonic SA (Pty) Ltd
Unit A7, Centurion Business Park
Cnr. Bosmansdam Road &
Democracy Way
Milnerton, SA, 7441
South Africa
T +27 21 110 5687
www.tridonic.com
info@tridonic.com

SPAIN

Tridonic Iberia, S.L.
Calle Carpinteros nº 8, 2a
28670 Villaviciosa de Odón
Spain
T +34 916 162 095
www.tridonic.es
ventas@tridonic.com

SWITZERLAND

Tridonic AG
Obere Allmeind 2
8755 Ennenda
Switzerland
T +41 55 645 4747
www.tridonic.ch
vertrieb.schweiz@tridonic.com

TURKEY

Tridonic Aydınlatma Tic.LTD.ŞTİ.
Kemankeş Mah., Necatibey cad.
Akçe Sok., Akçe Han 10
34420 Karaköy / Beyoğlu
Istanbul, Turkey
T +90 212 244 78 05
F +90 212 244 78 06
www.tridonic.com
satis@tridonic.com

UNITED KINGDOM

Tridonic UK Limited
Unit 5 Cherrywood
Chineham Business Park
Stag Oak Lane, Chineham
RG24 8WF Basingstoke
Hampshire
United Kingdom
T +44 1256 374300
www.tridonic.com
enquiries.uk@tridonic.com

USA

Tridonic Inc. USA
3300 Route 9W
Highland, NY 12528
United States
www.tridonic.us
sales.us@tridonic.com

Headquarters

Tridonic GmbH & Co KG
Färbergasse 15 | 6851 Dornbirn, Austria
T +43 5572 395-0 | F +43 5572 20176
www.tridonic.com | sales@tridonic.com

Light you want to follow.

