

EVERLY - REPLACEABLE LED SPOT DATASHEET



PRODUCT DESCRIPTION

- Compact replaceable LED module for LED iBond panels
- Round Ø20,15 mm LED module with threaded socket
- Nominal luminous flux of 300±7% lm
- LED module efficacy up to 127 lm/W
- CRI 80+
- Lifetime >60.000 hrs. (L80B10)



APPLICATIONS

- Elevator ceilings
- General lighting

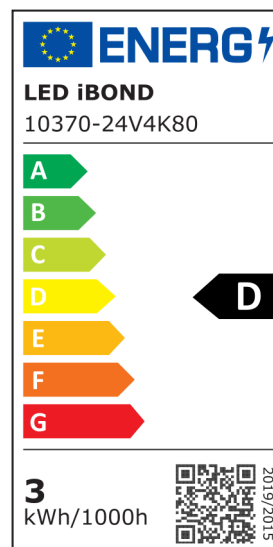
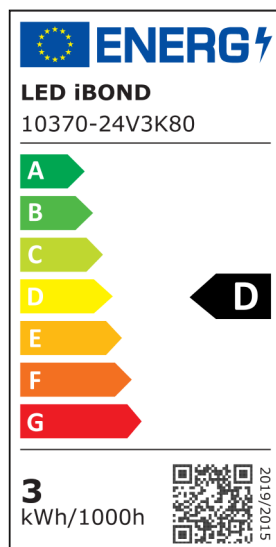


KEY PERFORMANCE DATA

Type	Typ.	Nominal	Typ. Vf	Typ. power	Efficacy of	CRI
10370-24V3K80	290 lm	3000 K	23,0 V	2,30 W	124 lm/W	80+
10370-24V4K80	300 lm	4000 K	23,0 V	2,30 W	127 lm/W	80+

NOTE! Performance @ If=100 mA, Tc=35°C

ENERGY LABELS





PHOTOMETRIC CHARACTERISTICS

Parameter	Type	Min	Typical	Max	Unit	Remark
Luminous flux	24V3K80	270	290	310	lm	
	24V4K80	280	300	320	lm	
Peak intensity	24V3K80		227		cd	
	24V4K80		231		cd	
Module efficacy	24V3K80	115	124	132	lm/W	
	24V4K80	118	127	136	lm/W	
CCT	24V3K80		3000		K	
	24V4K80		4000		K	
CIE	24V3K80		(0,4400;0,4051)		(CCx;CCy)	
	24V4K80		(0,3871;0,3843)		(CCx;CCy)	
Color consistency	-			3	SDCM	
CRI	-	80				
Radiation angle	-		65		deg	Lambertian

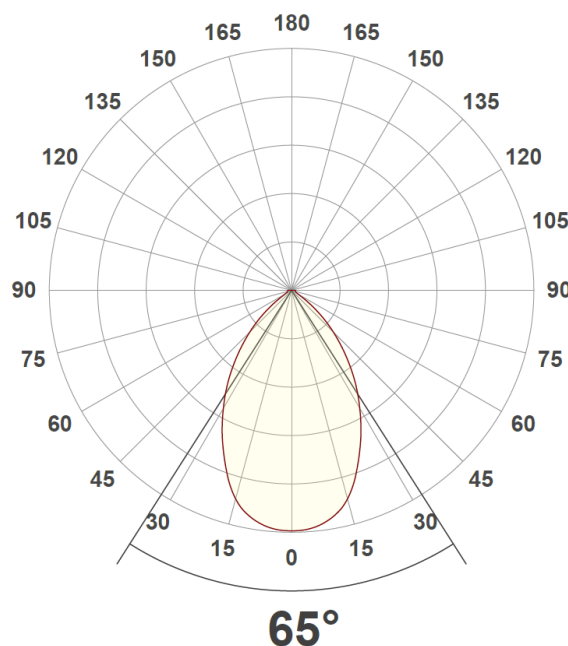
NOTE! Performance @ If=100 mA, Tc=35°C

NOTE! LED iBond A/S maintains a tolerance of ±2 on CRI and ±7% on luminous flux measurements.

Parameter	Type	Value	Remark
Photometric code	24V3K80	830/338	
	24V4K80	840/338	
Risk group (IEC 62471:2006)	-	RG2	@ If=240mA E _{thr} =950lx; d _{min} =561mm

NOTE! Current RG1 to RG2 boundary is 96mA for all types.

ANGULAR DISTRIBUTION



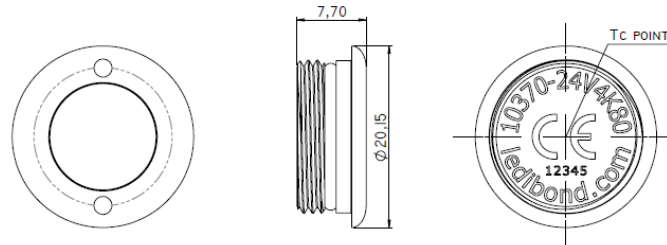
NOTE! Angular distribution applies for 24V3K80 and 24V4K80.



ELECTRICAL CHARACTERISTICS

Parameter	Min	Typical	Max	Unit	Remark
Forward Voltage	-	23,0	24,5	V	
Power consumption	-	2,30	6,00	W	

DIMENSIONS



NOTE! Dimensions apply for 24V3K80 and 24V4K80.
NOTE! All dimensions in mm.

LED MODULE IMAGE



NOTE! Images apply for 24V3K80 and 24V4K80.

MOUNTING SYSTEM

Mounting type	Max Torque applied when tightened
Threaded socket	0,2 Nm

INSTALLATION - INSERT



INSTALLATION - REMOVE





LUMEN MAINTENANCE

Drive current	Tc	L70B10	L80B10	L90B10
100 mA	40°C	>60.000	>60.000	>40.000
	50°C	>60.000	>60.000	>40.000
200 mA	55°C	>60.000	>60.000	>40.000
	65°C	>60.000	>60.000	>40.000

NOTE! The above values are derived from LM80 test and represent statistical values. Individual modules may exhibit variations.

TEMPERATURE AT Tc POINT

Category	Temperature at Tc point	Drive current	Remark
Nominal	35°C	100 mA	Nominal value at which performance is specified
Max	70°C	240 mA	Max value

ABSOLUTE MAX RATINGS

Parameter	Min	Max	Unit	Remark
Drive current		240	mA	
Tc	-25	70	°C	@ Tc point
ESD		Class 2		ANSI/ESDA/JEDEC JS-0001-2012
Ambient temperature	-25	35	°C	
Storage temperature	-40	105	°C	

ORDER INFORMATION

Art No.	Description
51399.01	2 pcs. replaceable CCT 3000K LED modules and 1 pc. installation tool
51399.02	2 pcs. replaceable CCT 3000K LED modules and 1 pc. installation tool

PRECAUTIONS FOR USE

Chemical Substances

Certain chemical substances listed below may harm LED modules by causing corrosions which result in reduced luminous flux, color shift, and no light output in the worst case. Please use caution when storing LED modules and operating the luminaire system so that the LED modules are not exposed to such chemical substances.

- Examples of harmful chemical substances: Sulfur, chlorine, phthalate, halogen, VOCs (volatile organic compound).
- Example sources of harmful chemical substances: Organic rubber, lead solder paste, epoxy.

Cleaning

Wipe off dust with a dry, soft cloth. Remove greasy spots etc. with a soft cloth dampened in lukewarm water (<50° C) with a mild detergent. Never use detergents containing abrasives or solvents.