

LEFI

CORE-DL-DF-B

Product Specification



Product Description

CORE-DL-DF-B is highly integrated module solution for indoor diffusive downlight application. The product provides wide range of flux output in standard form factor.

- Compatible with INVENTRONICS OPTOTRONIC/ICUTRONIC/ELEMENT drivers
- Lifetime L70B50 >50khrs
- 3 years guarantee

Benefits

- Wide flux output range
- Simple & easy installation
- Wide CCT Range 2700-6500K

Features

- Color consistency < 5SDCM
- Flux output range 900-3400lm
- High efficacy, up to 143lm/W at module level
- Beam angle FWHM at 100-110°

Applications

- Retail, shop, restaurant, hospitality
- High-end residential
- Suitable for indoor applications

Table 1. Product Performance

Product name	Nominal CCT (K)	Min CRI	Flux Output (lm)		Typical Efficacy (lm/W)	Test Current (mA)	Test Voltage (V)	Typical Power (W)	Beam Angle (FWH)
			Min	Typ					
CORE-DL-DF-10-B-827-4	2700	80	860	960	113	250	34	8.5	105°
CORE -DL-DF-10-B-830-4	3000	80	890	990	116	250	34	8.5	105°
CORE -DL-DF-10-B-840-4	4000	80	950	1050	123	250	34	8.5	105°
CORE -DL-DF-10-B-865-4	6500	80	920	1020	120	250	34	8.5	105°
CORE -DL-DF-20-B-827-6	2700	80	1900	2100	123	500	34	17	105°
CORE -DL-DF-20-B-830-6	3000	80	2020	2250	132	500	34	17	105°
CORE -DL-DF-20-B-840-6	4000	80	2100	2350	138	500	34	17	105°
CORE -DL-DF-20-B-865-6	6500	80	2070	2300	135	500	34	17	105°
CORE -DL-DF-30-B-827-8	2700	80	2750	3050	128	700	34	23.8	105°

CORE-DL-DF-30-B-830-8	3000	80	2880	3200	134	700	34	23.8	105°
CORE-DL-DF-30-B-840-8	4000	80	3060	3400	143	700	34	23.8	105°
CORE-DL-DF-30-B-865-8	6500	80	3000	3350	140	700	34	23.8	105°

Note:

1. All parameters are derived at steady status when: $t_p=65^{\circ}\text{C}$ ($t_a=25^{\circ}\text{C}$)
2. Tolerance of measurements for the luminous flux is $\pm 10\%$,
3. These modules are only suitable for SELV driver. Working voltage for which the insulation is less than 60VDC.

Table 2. Optical parameters

Product	Typ. CCT (K)	Min. CCT (K)	Max. CCT (K)	Centered x,y		Bin in 5 step MacAdam Ellipse	CRI Min.
				CIE x	CIE y		
CORE-DL-DF-10-B-827-4	2725	2580	2870	0.46	0.4104	5 step MacAdam	80
CORE-DL-DF-10-B-830-4	3045	2870	3220	0.437	0.4039		80
CORE-DL-DF-10-B-840-4	3985	3710	4260	0.3805	0.3766		80
CORE-DL-DF-10-B-865-4	6530	6020	7040	0.3123	0.3283		80
CORE-DL-DF-20-B-827-6	2725	2580	2870	0.46	0.4104		80
CORE-DL-DF-20-B-830-6	3045	2870	3220	0.437	0.4039		80
CORE-DL-DF-20-B-840-6	3985	3710	4260	0.3805	0.3766		80
CORE-DL-DF-20-B-865-6	6530	6020	7040	0.3123	0.3283		80
CORE-DL-DF-30-B-827-8	2725	2580	2870	0.46	0.4104		80
CORE-DL-DF-30-B-830-8	3045	2870	3220	0.437	0.4039		80
CORE-DL-DF-30-B-840-8	3985	3710	4260	0.3805	0.3766		80
CORE-DL-DF-30-B-865-8	6530	6020	7040	0.3123	0.3283		80

Note:

1. Ranking at steady status and in typical condition as below: $t_p=65^{\circ}\text{C}$
2. Tolerance of measurements for the color rendering Ra is ± 2 .
3. Tolerance of measurements for the Chromaticity Coordinate is ± 0.005 ; the tolerance of CCT should be calculated accordingly.

Table 3. HE Mode performance table:

CORE-DL-DF-10-B-xxx-4

	Current(mA)	Flux (%)	Efficacy (%)	Typ Vf (V)	Power (W)
HO Mode	250	100%	100%	34	8.5
HE Mode	225	90%	101.5%	33.6	7.56
	200	81.25%	103.3%	33.45	6.7
	180	74%	105%	33.3	6
	150	63%	108%	33.2	5

CORE-DL-DF-20-B-xxx-6

	Current(mA)	Flux (%)	Efficacy (%)	Typ Vf (V)	Power (W)
HO Mode	500	100%	100%	34	17
HE Mode	450	91.3%	103%	33.7	15.2
	400	82.2%	105%	33.5	13.4
	350	74%	108%	33.4	11.7

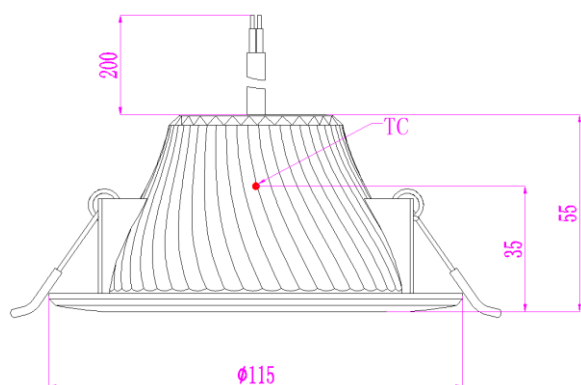
CORE-DL-DF-30-B-xxx-8

	Current(mA)	Flux (%)	Efficacy (%)	Typ Vf (V)	Power (W)
HO Mode	700	100%	100%	34	23.8
HE Mode	650	92.3%	101%	33.7	21.9
	600	86%	102.4%	33.5	20.1
	550	80%	103.8%	33.4	19.4
	500	73.4	105.5%	33.3	16.7

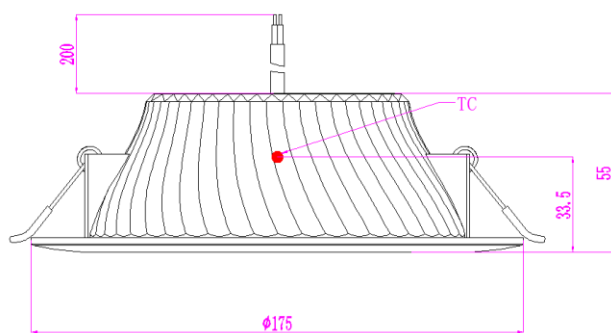
Table 4. Environmental and Application Conditions

Operating (case) temperature range (tC)	-20~+75℃
Storage temperature range	-40~+80℃
IP rating	IP20
Lifetime @ tp (L70/B50)	50000hrs
Guarantee	3 years
Net weight	100g (4inch) 、 205g (6inch) 、 320g (8inch)

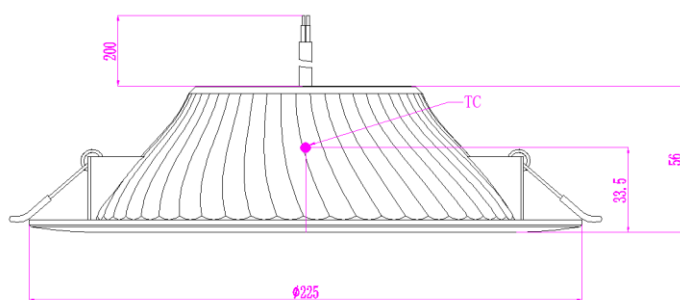
Mechanical Dimensions



4 inch CORE-DL-DF-10-B-XXX-4 (CUT-OUT 95mm)



6 inch CORE-DL-DF-20-B-XXX-6 (CUT-OUT 142mm)



8 inch CORE-DL-DF-30-B-XXX-8 (CUT-OUT 180mm)

Table 5: Driver Matching

Product name	Driver model	Drive Current(mA)	System Flux (Refer to table 3)	Driver feature
CORE-DL-DF-10-B-xxx-4	ELEMENT 10/220-240/250 G3	250	100%	ON OFF
	ELEMENT 8/220-240/200 G3	200	81.25%	ON OFF
	ELEMENT 6/220-240/150 G3	150	63%	ON OFF
	ELEMENT 10/220-240/250 S LPF M	250	100%	ON OFF
	ELEMENT 8/220-240/200 S LPF	200	81.25%	ON OFF
	ELEMENT 6/220-240/150 S LPF	150	63%	ON OFF
	OT FIT 20/220-240/500 CS	250	100%	ON OFF
	OT FIT 8/220-240/180 CS I MINI	180	74%	ON OFF
	OT FIT 15/220-240/350 NFC	250	100%	ON OFF
		225	90%	
		180	74%	
		150	63%	
	OT FIT 18/220-240/450 CS PC	225	90%	Phase cut
	OT FIT 8/220...240/180 CS PC	180	74%	Phase cut
	OTi DALI 15/220-240/1A0 NFC	250	100%	DALI
		225	90%	
		180	74%	
		150	63%	
	OTi DALI 10/220...240/700 NFC I	250	100%	DALI
		225	90%	
		180	74%	
		150	63%	
CORE-DL-DF-20-B-xxx-6	ELEMENT 20/220-240/500 G3	500	100%	ON OFF
	ELEMENT 15/220-240/350 G3	350	74%	ON OFF
	ELEMENT 15/220-240/350 S LPF	350	74%	ON OFF
	OT FIT 20/220-240/500 CS	500	100%	ON OFF
		450	91.3%	
		350	74%	
	OT FIT 25/220-240/700 NFC	500	100%	ON OFF
		450	91.3%	
		400	82.2%	

		350	74%	
	OT FIT 30/220-240/800 CS PC	500	100%	Phase cut
	OT FIT 18/220-240/450 CS PC	450	91.3%	Phase cut
		350	74%	
	OTI DALI 25/220-240/700 NFC	500	100%	DALI
		450	91.3%	
		400	82.2%	
		350	74%	
	OTi DALI 20/220...240/500 NFC I	500	100%	DALI
		450	91.3%	
		400	82.2%	
		350	74%	
CORE-DL-DF-30-B-xxx-8	ELEMENT 28/220-240/700 G3	700	100%	ON OFF
	ELEMENT 25/220...240/600 G3	600	86%	ON OFF
	ELEMENT 20/220...240/500 G3	500	73.4%	ON OFF
	OT FIT 30/220-240/700 CS	700	100%	ON OFF
		650	92.3%	
		600	86%	
		500	73.4%	
	OT FIT 40/220-240/1A0 NFC	700	100%	ON OFF
	OT FIT 25/220-240/700 NFC	700	100%	ON OFF
		650	92.3%	
		600	86%	
		550	80%	
		500	73.4%	
	OT FIT 30/220-240/800 CS PC	700	100%	Phase cut
		600	86%	
		500	73.4%	
	OTI DALI 25/220-240/700 NFC	700	100%	DALI
		650	92.3%	
		600	86%	
		550	80%	
		500	73.4%	
	OTI DALI 35/220-240/1A0 NFC	700	100%	DALI
		600	86%	
	OTi DALI 30/220...240/700 NFC I	700	100%	DALI
		650	92.3%	
		600	86%	
		550	80%	
		500	73.4%	

Table 6: Ordering Codes

1. CORE-DL-DF-10-B-XXX-4

EAN10	Product Code	Qty per Package(pcs)
6937186103048	CORE-DL-DF-10-B-827-4	80
6937186102843	CORE-DL-DF-10-B-830-4	80
6937186102867	CORE-DL-DF-10-B-840-4	80
6937186102881	CORE-DL-DF-10-B-865-4	80

2. CORE-DL-DF-20-B-XXX-6

EAN10	Product Code	Qty per Package(pcs)
6937186102904	CORE-DL-DF-20-B-827-6	40
6937186102928	CORE-DL-DF-20-B-830-6	40
6937186102942	CORE-DL-DF-20-B-840-6	40
6937186102966	CORE-DL-DF-20-B-865-6	40

3. CORE-DL-DF-30-B-XXX-8

EAN10	Product Code	Qty per Package(pcs)
6937186102980	CORE-DL-DF-30-B-827-8	20
6937186103000	CORE-DL-DF-30-B-830-8	20
6937186103024	CORE-DL-DF-30-B-840-8	20
6937186103048	CORE-DL-DF-30-B-865-8	20

Others:

- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person
- Luminaires not suitable for covering with thermally insulating material