



- COOLE D** Real-time temperature monitoring and control
- BACK2LIFE** Innovative light fixture refurbish and recycle program
- EZ SWAP** Tool-less interchangeable reflector assembly system
- SHIP2FAST** Fast delivery program

**CARDA** 7" LED DOWNLIGHT FIXTURE



BUILD YOUR CODE

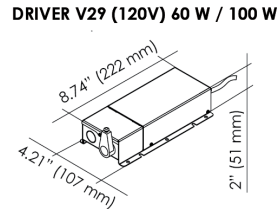
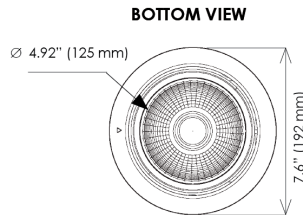
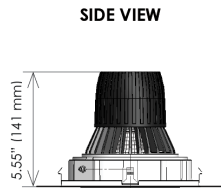
CARDA	PRODUCT	DELIVERED LUMENS	LED COLOR	CRI	BEAM SPREAD	VOLTAGE	HOUSING COLOR	DIMMING OPTION
	<b>CARDA</b>	<b>20</b> 2000 LM (14W) 196LM/W	<b>27</b> 2700 K	<b>84</b> nominal CRI at 3500K	<b>SP</b> 15° ▲	<b>1</b> 120 V	<b>WH</b> RAL 9016 white	<b>ADIM</b> 0-10V 5%
		<b>25</b> 2500 LM (16W) 194LM/W			<b>NFL</b> 24° ▲▲	<b>2</b> 277V	<b>BK</b> RAL 9005 black	<b>ADIM+</b> 0-10V 0.1%
		<b>30</b> 3000 LM (20W) 192LM/W	<b>30</b> 3000 K	<b>90</b> 90 CRI min. value	<b>FL</b> 36° ▲▲▲	<b>3</b> 347V	<b>SL</b> RAL 9006 silver	<b>DALI</b> Dali
		<b>35</b> 3500 LM (22W) 190LM/W	<b>35</b> 3500 K	<b>90</b> min value	<b>WFL</b> 60° ▲▲▲▲		<b>+</b> Custom color	<b>CA</b> Casambi
		<b>40</b> 4000 LM (25W) 188LM/W	<b>40</b> 4000 K	<b>97 *</b> (2700k 3000K 5600K)				<b>—</b> None
		<b>50</b> 5100 LM (34W) 173LM/W	<b>50</b> 5000 K	<b>A</b> A Class*				
		<b>60</b> 6100 LM (40W) 188LM/W	<b>TW1</b> 4000K to 1800K <sup>3</sup>	* A Class only available with (3000K, 3500K, 4000K)				
		<b>73</b> 7300 LM (50W) 186LM/W	<b>TW2</b> 6500K to 2700K <sup>3</sup>					
		<b>85</b> 8500 LM (60W) 184LM/W	<b>B</b> Bread color					
		<b>97</b> 9700 LM (70W) 182LM/W	<b>M</b> Meat color					
		<b>105</b> 10500 LM (80W) 179LM/W						
		CUSTOM LUMEN OUTPUT AVAILABLE						

ACCESSORIES <i>Order as separate part number.</i>	
<b>PG</b>	Protection Glass (glass or plexi)
<b>LS</b>	Lens
<b>CA</b>	Custom adapter to cover between opening and trim.
<b>EM</b>	Emergency batteries. 90min illumination time. Only available with 23W / 2600lm option.

DELIVERED LUMEN															
CCT OPTION	2700K	2700K	2700K	3000K	3000K	3000K	3500K	3500K	3500K	4000K	4000K	4000K	Bread	Meat	Fish
CRI OPTION	80	90	97	80/A	90	97	84	90	A/80	84	90	A/80	80	80	80
MULTIPLIER	.93	.77	.67	.96	.96	.71	1	1	.78	1.0	1	.83	.86	.53	1

DIMENSIONS

ON LIGHT CHEAT SHEET :



\*1 Driver per trim

- Nominal Efficacy : up to 196 lm/W
- Reported Life : 50'000 hrs. in accordance with IESNA TM-21-11.
- 3-Step MacAdam ellipse color consistency for clean and uniform lighting.
- Photometry conducted by independant NVLAP (National Voluntary Laboratory Accreditation Program) accredited testing laboratory in accordance with IESNA LM-79-08.
- Lumen maintenance for LED's tested by LED chip manufacturer in accordance with IESNA LM80-08.
- 5-year warranty on LED light engine, driver and all lighting fixture components.
- Die-cast aluminum housing construction. Double gimbal trim pivotable on 2 axis up to 38°
- Max settable driver output : 25W driver (14-25W), 50W driver (34-50W), 60W driver, 100W driver (40-80W)
- Retrofit installation mechanism / Tool-less interchangeable reflector and accessories assembly system.
- Emergency batteries 90min illumination. 3 Year warranty on emergency batteries system.

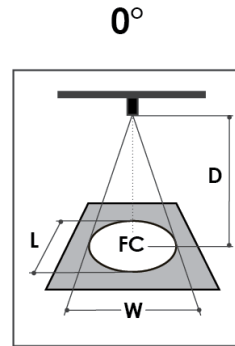
<b>Weight trim:</b>	3.7 lb (1.7 kg)	<b>Height in ceiling :</b>	5 5/8" + 3" <u>min clearance</u>
<b>Weight driver :</b>	1.8 lb (0.8kg)	<b>Ceiling opening:</b>	7"

Last update 2021 2022-07-27

Due to continuous improvements, the information herein may be changed without notice



**CARDA** 7" LED DOWNLIGHT FIXTURE



Project:

QUANTITIES:

**ON LIGHT**

**CONE OF LIGHT DIAGRAM**

(diameter shown is where fc is half the fc at nadir)

Product Family	Beam Spread	CBCP cd	D ft	FC ft	L ft	W ft	Product Family	Beam Spread	CBCP cd	D ft	FC ft	L ft	W ft
Power 7300 lumen 3500K 84 CRI	15° (Spot)	26792	10	267.9	4.0	4.0	Power 7300 lumen 3500K 84 CRI	36° (Flood)	17615	10	176.2	5.6	5.6
			12	186.1	4.8	4.8				12	122.3	6.7	6.7
			14	136.7	5.6	5.6				14	89.9	7.9	7.9
			16	104.7	6.4	6.4				16	68.8	9.0	9.0
			18	82.7	7.2	7.2				18	54.4	10.1	10.1
20	67.0	8.0	8.0	20	44.0	11.2	11.2						
Power 7300 lumen 3500K 84 CRI	24° (Narrow Flood)	19334	10	193.3	5.2	5.2	Power 7300 lumen 3500K 84 CRI	60° (Wide Flood)	9008	10	90.1	8.1	8.1
			12	134.3	6.3	6.3				12	62.6	9.8	9.8
			14	98.6	7.3	7.3				14	46.0	11.4	11.4
			16	75.5	8.4	8.4				16	35.2	13.0	13.0
			18	59.7	9.4	9.4				18	27.8	14.6	14.6
20	48.3	10.4	10.4	20	22.5	16.3	16.3						

**TECHNICAL PRODUCT SPECIFICATIONS**

**TRIM HOUSING :** Die-cast aluminum housing construction. Double gimbal trim pivotable on 2 axis up to 38°. EZ Swap Tool-less interchangeable reflector assembly system between all track and downlight products. Trim frame can accommodate ceiling thickness up to 0.79" (20mm).

**OPTICAL SYSTEM :** Tool-less, user-friendly MIRO ® pure aluminum optical reflector assembly available in four beam spreads: 15 °, 24 °, 36 ° & 60 °. Faceted/dimpled reflector ensures clean and uniform beam of light.

**ELECTRICAL ENCLOSURE :** Metal enclosure with Wago electrical terminal block/connector for easy installation.

**LED LIGHT ENGINE :** BRIDGELUX VERO SERIES 2 or 3 SDCM / 2 or 3 Step MacAdam ellipse multi-chip LED cluster Light Engine yields perfect color consistency with clean and uniform beam of light.

**LED DRIVER :** Proprietary LED driver with closed-loop LED Light Engine temperature monitoring & control system for long-life (Prevents LED Light Engine damage caused by overheating). Power factor: > 97 % at 120 V. Driver output is Class 2 rated.

**A CLASS COLOR :** Class A is based on human response testing, providing color points with a combined GAI and CRI metric.

**FOOD COLOR :** Ensures accurate food color rendition of meat, bread or fish in food retailers.

**BRIDGELUX CCT :** 1750K, 2000K, 2500K, 2700K, 3000K, 3500K, 4000K, 5000K, 5600K, 5700K, 6500K.

**R9 VALUE** Mini. R9 value for 80 CRI LED is 0. the min. R9 values for 90 LED is 50. the min. R9 value for 97 CRI LED is 93. For Décor series LED, Typical R9 value is 98 to enhance RED's and an R15 value of 97

**COOLING SYSTEM :** COOL $\bar{E}$ D Temperature sensor/Integrated Circuit controlled brushless MagLev® fan which features zero friction without contact between shaft and bearing. Rated acoustic noise: 17 dBA (nearly inaudible). Rated life: 60'000 hrs

**DIMMING** 0-10V dimming option down to 5%. 0.1% dim to off

**CERTIFICATION :** CSA certified to US and Canadian safety standards. Photometrically tested by NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. LED Light Engine tested by LED chip manufacturer in accordance with IESNA LM-80-08. Lighting Facts qualified.

**FINISH :** Roughed textured powder-coated paint finish. Available in RAL 9016 white, RAL 9005 black and RAL 9006 silver. Track adapter/ canopy will match luminaire color.

**WEIGHT :** Trim : 3.7 lb (1.7 kg)

**ENVIRONMENT :** Rated for dry locations only. Applications in damp or wet locations will void warranty.

**REPORTED LIFE :** 50'000 hrs at L77 in accordance with IESNA TM-21-11 (Projecting Long Term Lumen Maintenance of LED Light Sources).

**WARRANTY :** 5-year comprehensive system warranty (LED Light Engine, LED Driver and luminaire parts).

**BACK TO LIFE :** Luminaire can be refurbished with the newest generation of LED and driver.

**INPUT WATTAGE :** Max settable driver output : 25W driver (14-25W), 50W driver (34-50W), 100W driver (40-80W)

**INSTALLATION :** Luminaire is installed as a retrofit.

**MADE IN CANADA :** Luminaires are assembled in Canada, Beloeil.

**GAI :** GAI value 80 @ CRI93