


JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

MODULAR SLIM PROFILE LED DL106 and DL112 Series



PRODUCT SPECIFICATIONS

LED Binned to within 3 SDCM for consistent color LED to LED • Rated 50,000 hour life at 70% of initial lumens based on testing in a 25 degree C ambient environment with the LED junction temperatures measured below the LED manufacturer's published maximums • Available in 90 CRI min at 3000K or 80 CRI min at 4000K and 5000K.

Lens Clear or Frosted ABS.

Construction LED's are surface mounted on thermally conductive printed circuit board which is in direct contact with an extruded aluminum base for efficient thermal dissipation • Designed for even LED spacing over linear runs.

Finish Clear anodized aluminum.

Drivers Class 2, 24-volt DC electronic remote mount drivers (ordered separately) are available in wattages ranging from 25 to 96 watts • Allow 6 watt per foot • Dimmable drivers are compatible with approved 0-10V or 3-wire fluorescent dimmers.

Labels UL/C-UL listed for use in damp locations. 3000K meets high efficiency requirements of CEC T24.

Specifications subject to change without notice.

INSTALLATION

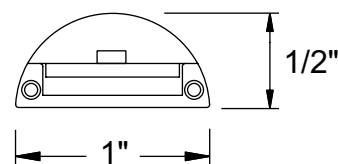
Modular "plug-together" system for easy installation. Up to 16 one-foot fixtures (32 six-inch) can be joined together in a single run using either in-line connectors or jumper cables (ordered separately). One starter power cable and one end-cap required for each run (ordered separately).

Applications Applications include, but are not limited to, shelf and display lighting, under cabinet lighting, task lighting, cove lighting and hand rails.

Mounting Hardware One 3/4" (6" fixture), two 3/4" (12" fixture) long type A Philips Pan Head screws suitable for mounting to wood or metal surfaces are supplied • Other mounting screws may be substituted as required to mount to other types of surfaces.

Optional Mounting Extrusions 1" high fascia and corner mounting extrusions (ordered separately).

DIMENSIONS



Shown Actual Size

ORDERING INFORMATION (Type fixture options in the blank form fields below)

Example: DL106 40K 80CRI CL

Series	Color Temperature	Minimum CRI	Lens
DL106 Juno Ultra-Slim LED, 6"	30K 3000K	80CRI ¹ 80 CRI	CL Clear Lens
DL112 Juno Ultra-Slim LED, 12"	40K 4000K	90CRI ¹ 90 CRI	FR Frosted Lens
	50K 5000K		

POWER SUPPLY OPTIONS (REMOTE MOUNT)

LED Driver

Example: DLP 60W ZT

Series	Watts	Driver Control	Options
DLP Juno Remote 24VDC Driver	25W 25 watts 40W 40 watts 60W 60 watts 96W 96 watts	ZT 0-10V and 3 wire fluorescent -Dimmable LED Driver — No Dimming	6CP ² 6' Cord with 3-Prong Plug, 120V, 3A RS ² Rocker Switch

¹ 90CRI standard for 30K. 80CRI standard for 40K and 50K

² Portable wiring and Rocker Switch is only available with non-dimmable driver.

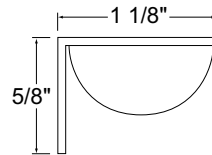
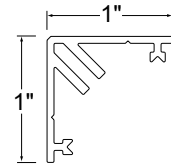
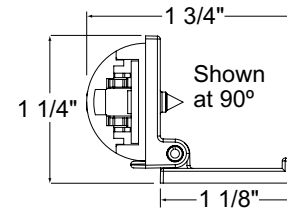
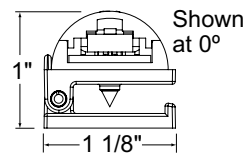
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MOUNTING ACCESSORIES (order separately)

Catalog Numbers	Description
DL103AME 48IN	Ultra-Slim Mounting Extrusion, 45 Degree Angle Mount, 48 inches
DL103AME 96IN	Ultra-Slim Mounting Extrusion, 45 Degree Angle Mount, 96 inches
DL103MS 48IN	Ultra-Slim Mounting Extrusion, Fascia Shield, 48 inches
DL103MS 96IN	Ultra-Slim Mounting Extrusion, Fascia Shield, 96 inches
DL103MB	Ultra-Slim Mounting Extrusion, Adjustable Mounting Brackets

**Shield (DL103MS)****45° Angle Mount (DL103AME)****Adjustable Mounting Bracket (DL103MB)**

APPROVED DIMMERS

Lutron Model No.	Min. Dimming Level	Leviton Model No.	Min. Dimming Level	Sensor Switch Model No.	Min. Dimming Level
NTF-10	5%	Illumatech IP710-DLX*	5%	nPP16D	5%
NTF-10-277	5%	AWSMG-7DW	7%		
PowerPAK RMJ-5T-DV-B	5%				
NTF-TV*	5%	Wattstopper	Min. Dimming Level		
		Model No.	Level		
NTSTV-DV	5%	LMRC-211	5%		
NFTV	5%	Sensor Switch	5%		
Grafik Eye GRX-TVI	5%				

*Recommended dimmer.
For Additional dimmers, consult the factory or Juno Lighting Group Technical Services Department.

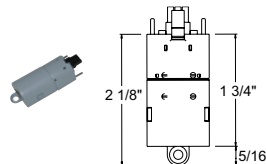
ELECTRICAL FEEDS & CONNECTORS (order separately)

END FEEDS

One DL101P or DL101TB required per run.



DL101P
Ultra Slim 118" Starter Power Cable (power to 1st fixture). Can be field shortened or extended.



DL101TB

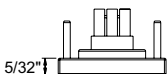
Ultra-Slim Terminal Block Connector. Plugs into end of LED fixture and accepts 14 through 20 gauge stranded or solid insulated wire or cable including non-metallic sheathed cable, SPT-2 lamp cord or speaker wire (supplied by others). May also be used in pairs to create custom length jumper cables.

END CAPS

One required per run.



DL101E
Ultra-Slim End Cap

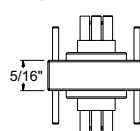


JOINER CONNECTORS

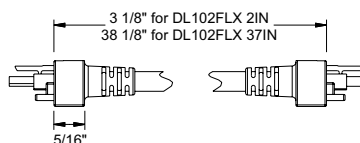
One DL102EE or one DL102FLX required for each fixture to fixture connection.



DL102EE
End-to-end connector



DL102FLX 2IN
Ultra-Slim Flexible End-to-End Connector, 2 inches



DL102FLX 37IN
Ultra-Slim Flexible End-to-End Connector, 37 inches

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MOUNTING EXAMPLES

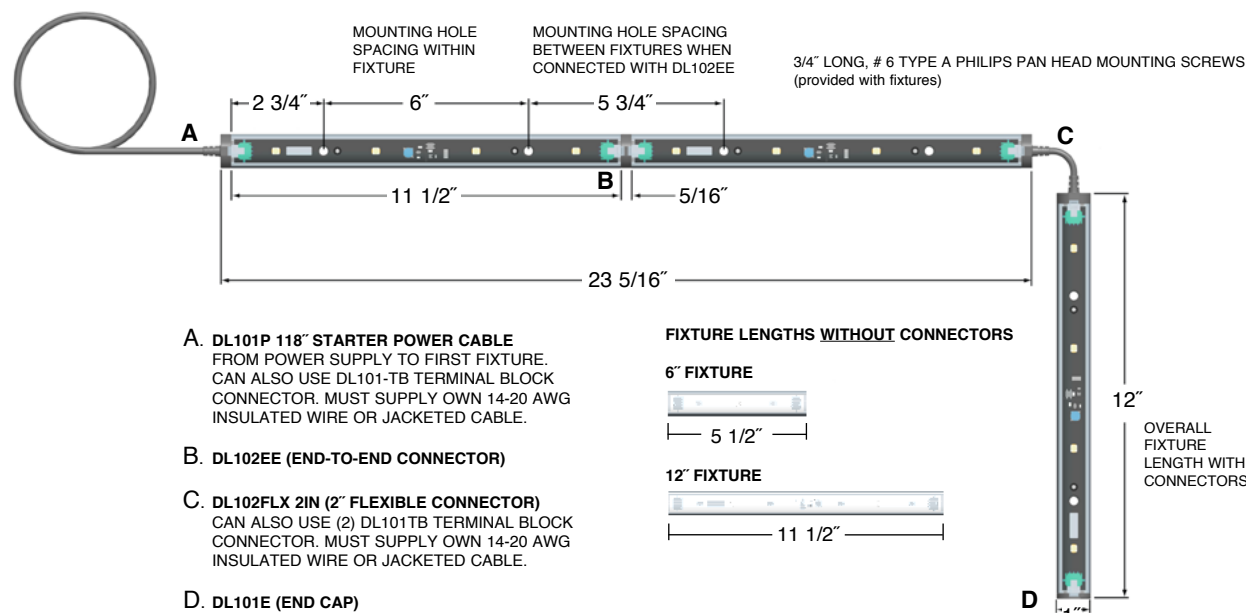


(2) Juno LED fixtures with power cable, end-to-end connector and end cap



(2) Juno LED fixtures with power cable, flexible connector and end cap

MECHANICAL DIMENSIONS - BASED ON 12" FIXTURES



Maximum Starter Cable Length from driver to first fixture (feet)

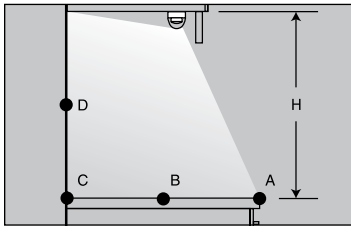
# of Fixtures in Run	Joiner Type	20 Gauge	18 Gauge	14 Gauge
<8	DL102EE	100	100	100
	DL102FLX 2IN	100	100	100
	DL102FLX 37IN	100	100	100
8	DL102EE	95	100	100
	DL102FLX 2IN	93	100	100
	DL102FLX 37IN	85	100	100
10	DL102EE	71	100	100
	DL102FLX 2IN	66	100	100
	DL102FLX 37IN	40	65	100
12	DL102EE	52	83	100
	DL102FLX 2IN	46	73	100
	DL102FLX 37IN	25	40	80
14	DL102EE	37	59	100
	DL102FLX 2IN	33	52	100
	DL102FLX 37IN	—	20	60
16	DL102EE	25	40	100
	DL102FLX 2IN	—	35	100
	DL102FLX 37IN	—	15	40

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PHOTOMETRICS

Cabinetry Lighting Photometrics

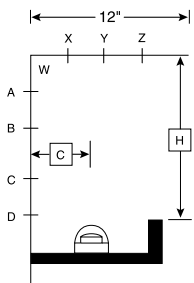


Footcandles on Horizontal Work Surface

LED CCT	Catalog Number	Volts/Watts	Mounting Height (H)	Footcandles			
				A	B	C	D
3000K (90 CRI)	DL112 30K 90CRI CL	24V/4.1W	6"	20	299	32	38
			15"	29	70	43	45
			18"	25	50	36	36
			24"	20	29	25	32
4000K (80 CRI)	DL112 40K 80CRI CL	24V/4.1W	6"	23	350	36	43
			15"	33	79	50	53
			18"	30	58	41	43
			24"	21	35	30	35
5000K (80 CRI)	DL112 50K 80CRI CL	24V/4.1W	6"	25	387	44	54
			15"	38	88	57	61
			18"	33	63	47	49
			24"	25	38	33	41

Frosted Lens Multiplier = 0.75

Cove Lighting Photometrics



Footcandles on Horizontal and Vertical Planes

LED CCT	Catalog Number	Lamp Spacing from Wall (C)	Cove Height (H)	Footcandles on Vert. Plane (Wall)					Footcandles on Horz. Plane (Ceiling)		
				A	B	C	D	W	X	Y	Z
3000K (90 CRI)	DL112 30K 90CRI CL	3"	6"	188	263	324	165	276	299	222	127
			9"	95	145	283	125	170	177	149	100
			12"	54	88	220	118	111	113	102	77
		4"	6"	195	240	242	86	233	288	256	152
			9"	104	156	215	61	156	172	156	111
			12"	61	100	197	50	104	113	104	84
		5"	6"	186	195	170	72	197	263	274	179
			9"	109	149	165	45	138	163	159	125
			12"	66	102	154	36	97	109	104	88
		3"	6"	217	298	354	172	307	344	260	154
			9"	111	170	319	150	197	203	169	114
			12"	64	104	245	124	127	132	116	89
4000K (80 CRI)	DL112 40K 80CRI CL	4"	6"	223	276	296	98	268	337	289	175
			9"	121	180	245	68	180	200	177	126
			12"	71	112	226	56	122	129	117	94
		5"	6"	215	223	223	81	226	304	307	202
			9"	124	170	198	53	160	188	180	141
			12"	76	117	175	41	112	126	119	99
5000K (80 CRI)	DL112 50K 80CRI CL	3"	6"	241	335	422	209	353	384	288	170
			9"	121	187	378	173	220	225	187	129
			12"	69	110	272	154	142	145	129	99
		4"	6"	242	309	337	107	304	373	318	194
			9"	132	198	279	76	201	220	195	140
			12"	77	121	257	63	135	145	131	104
		5"	6"	239	252	235	93	253	342	340	225
			9"	137	194	231	60	179	209	197	153
			12"	85	132	194	47	124	139	131	110

Frosted Lens Multiplier = 0.75