Kilo Suspended - Dynamic Color | Linear Illumination System

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Features

- Extruded aluminum linear suspension system utilizing double rows of LEDs
- Includes 8' silver adjustable cable
- 24VDC Class 2 fixtures made to order up to 120". Fixtures can be linked up to 24' depending on output
- Class 2 listed for damp locations
- Dot free even illumination with frosted lens
- Continuous Lens may be ordered separately for multi-fixture runs to create an even, seamless appearance
- 5 year warranty

- Warm Dim follows the incandescent dimming curve and is compatible with MLV, ELV, and Incandescent dimmers.
- RGB options offer balanced output across the color gamut and a true white with RGBW
- Smart Pixel offerings allow for infinite color combinations with cascading and chasing effects.
- Proprietary strong bond solder method handles up to 50 lbs of pull force on wire leads and connectors.

Warm Dimming   Dynamic White   RGB   RGBW   Pixel

1.00"
1.50"
1.50"
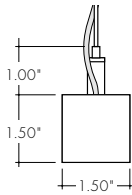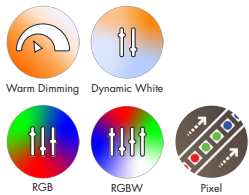
Finish Options (see page 2 for additional information)

- Silver Anodized
- Black
- Bronze
- White
- Matte Black
- Warm Nickel
- Aged Brass
- Polished Gold
- Chrome

MADE IN U.S.A   CE   Single Bin +/- 30 CCT   RoHS   TITLE 24 JA8 COMPLIANT   c(UL)us LISTED   DIM

Technical Information

TYPE	Warm Dim	Dynamic White		RGBW		RGB		Pixel	
OUTPUT OPTIONS	WD68SO (19K–27K)	DW68SO (27K–65K)	DW68HO (27K–65K)	RGBW36SO	RGBW36HO	RGB42SO	RGB42HO	RGBWX18SO	RGBX18SO
Lumens Output (all channels full on) (with a Frosted Lens)	522 lm/ft	633 lm/ft	760 lm/ft	318 lm/ft	526 lm/ft	315 lm/ft	463 lm/ft	384 lm/ft	253 lm/ft
Average Power Consumption (for a 4' section)	10.8 W/ft	9.2 W/ft	11.2 W/ft	8 W/ft	15.2 W/ft	9 W/ft	16.6 W/ft	11.4 W/ft	9 W/ft
Efficacy	48 lm/W	69 lm/W	68 lm/W	40 lm/W	35 lm/W	35 lm/W	28 lm/W	34 lm/W	28 lm/W
Max Run Length (in series)	10 ft	16 ft	12 ft	13 ft	7 ft	14 ft	7 ft	9 ft	15 ft
Max Ambient Temperature*	50°C [122°F]	50°C [122°F]		50°C [122°F]	45°C [113°F]	50°C [122°F]	45°C [113°F]	50°C [122°F]	
Control/Dimming Protocol	MLV, ELV, Inc.	0–10V, DMX		DMX				SPI Protocol UCS 2904	SPI Protocol UCS 2903

*Max Ambient Temperature to maintain L70 of 50k+ hours. Exceeding Max Ambient Temperature may result in decreased life/output. Consult Technical Support for specific inquiries.

Warm Dim (WD68)

| CCT | TM-30 | | | |
	CRI	R_f	R_g	R_9
1900K	96	92	96	94
2700K	96	93	106	95

Dynamic White (DW68)

| CCT | TM-30 | | | |
	CRI	R_f	R_g	R_9
1900K	97	94	98	95
2700K	98	96	101	91
2900K	98	96	102	94
3500K	97	94	105	97
4400K	97	91	101	97
6500K	92	88	97	64

RGBW (3000K)

| Tape | TM-30 | | | |
	CRI	R_f	R_g	R_9
RGBW36	95	93	106	84
RGBWX18	93	91	99	64

DW68

CCT	Multiplier
27K - 65K	1.00
19K - 35K	0.78

Dominant Wavelength

Color	RGB/RGBW
Red	620nm
Green	525nm
Blue	467nm

Ordering Code

MODEL	LENGTH[1]	OUTPUT[2]	CCT	LENS[3]	FINISH[4,5]	LEFT END	RIGHT END	POSITION TYPE

KILOS - Kilo Suspended	12"–144" 3" increments	WD68SO - Standard	19K27K - 1900K - 2700K	F - Frosted	SA - Silver	LE - With End Cap	RE - With End Cap	1 - 96" Wire Leads
	12"–144" 3" increments	DW68SO - Standard DW68HO - High	19K35K - 1900K - 3500K 27K65K - 2700K - 6500K	C - Clear N - No Lens	BK - Black BZ - Bronze WH - White	LN - W/out End Cap	RN - W/out End Cap	
	12"–144" 2" increments	RGBW36SO - Standard RGBW36HO - High RGB42SO - Standard RGB42HO - High	CLR - Color		MBK - Matte Black WN - Warm Nickel PG - Polished Gold[6]			
	12"–144" 4" increments	RGBWX18SO - Standard RGBX18SO - Standard	PXSPI - Smart Pixel Control		CH - Chrome[6]			

1 - Custom lengths and increments are available, please consult Inside Sales with specific request.
2 - Warm Dim and Dynamic White options can be used to comply with Title 24 JA8 at max brightness depending on Lens selection, see multiplier charts to calculate specific efficacy.
3 - Continuous Lens may be ordered separately for multi-fixture runs to create an even, seamless appearance

4 - White canopy included with all finishes except Black and Matte Black, which includes a Black canopy.
5 - Non SA finishes may have extended lead times. Custom RALs are available, please consult Inside Sales with specific request.
6 - Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".

Product Dimensions

4.38"

0.20"

Canopy

Canopy Side Feed

Aircraft cable

Power cable (Side Rear Feed)

96.0"

1.00"

1.50"

1.50"

1.06"

0.31"

3rd standoff at center, for suspensions over 120"

UP TO 144"
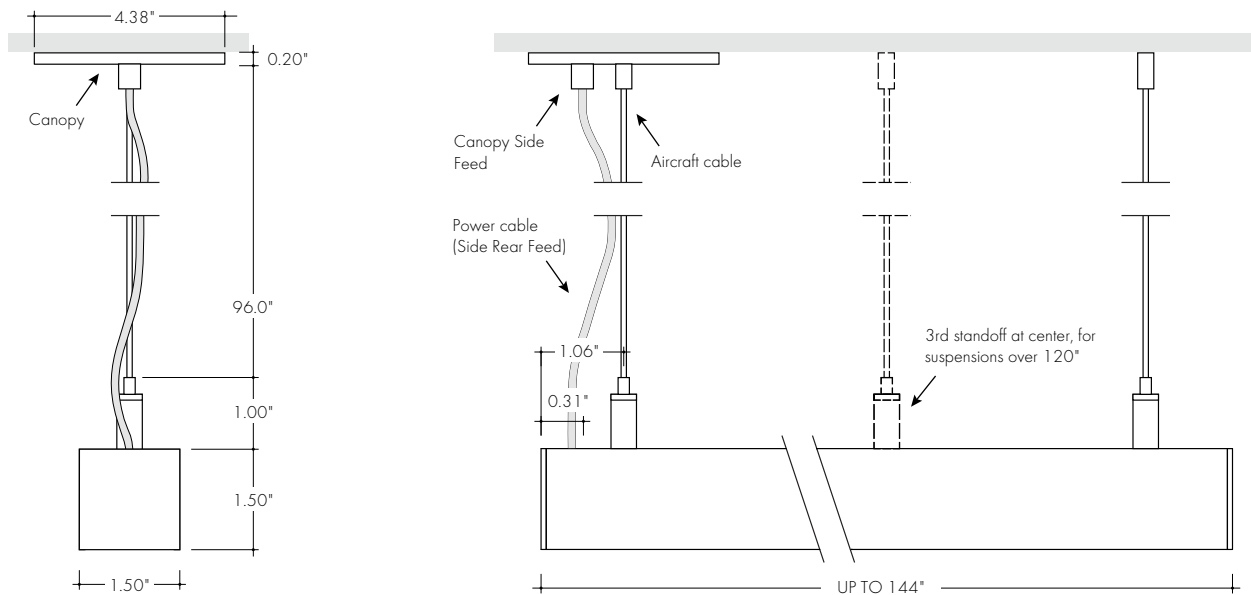
Finish Options

- Finish options are available in a wide variety, allowing for complete customization of style and aesthetic.
- Non Silver Anodized finishes may have extended lead times.
- Polished Gold finishes have a maximum fixture length of 48", and Chrome finishes have a maximum fixture length of 72".
- Custom RALs are available, please consult Inside Sales with specific request.

Silver Anodized

Silver Anodized is a soft silver with a clear finish.

Black

Black is a true deep black with a glossy finish.

Bronze

Bronze is a rich, dark brown with a satin finish.

White

White is a polar bright white and field paintable.

Matte Black

Matte Black is a dark, pitch-black with a soft flat finish.

Warm Nickel

Warm Nickel is a soft, silvery smoke with warm tones and a satin finish.

Aged Brass

Aged Brass is a deep brown shade with slightly golden undertones.

Polished Gold

Polished Gold is bright and radiant for a brilliant finish.

Chrome

Chrome is a highly reflective silver polish.

Lens Option / Light Transmission

| Output Options	Lens/Accessory	
	Clear Lens	Frosted Lens
WD68SO - 27K	CD	ND
WD68SO - 19K	CD	ND
DW68SO (All On)	CD	ND
DW68SO (1-Channel)	CD	ND
DW68HO (All On)	CD	ND
DW68HO (1-Channel)	CD	ND
RGBW36SO	CD	ND
RGBW36HO	CD	ND
RGB42SO	CD	ND
RGB42HO	CD	ND
RGBWX18SO	CD	SD
RGBX18SO	CD	SD
Transmission Percentage	114%	100%
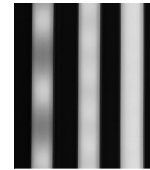
CD SD ND

CD - Clear Dotting
SD - Slight Dotting
ND - No Dotting

Accessory Options
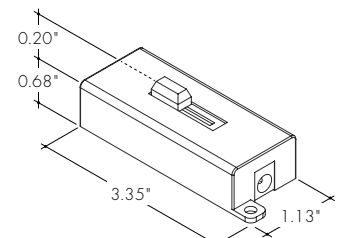
LVSP-4T-BK
Low Voltage, 4 Terminal Splice Box, Black

3.00"
1.90"
0.90"
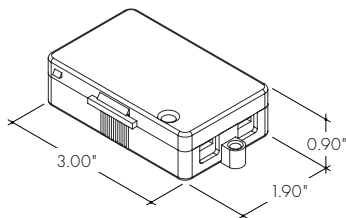
OS-DC-F4-BK
Occupancy Sensor

0.25"
0.68"
1.13"
3.35"
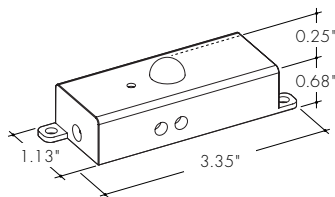
Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

DIM-DC-F4-BK
24VDC Low Voltage In-line Dimmer Module

0.20"
0.68"
3.35"
1.13"

Male Quick Connect, FMA, LMC, LYC, or IS-DC are required for input and output.

CONTINUOUS LENS (FIELD CUTTABLE)

	-	

KILOC-FF - Kilo Channel Continuous Frosted Lens
KILOC-CC - Kilo Channel Continuous Clear Lens

XX - Order in 10' increments up to 200'
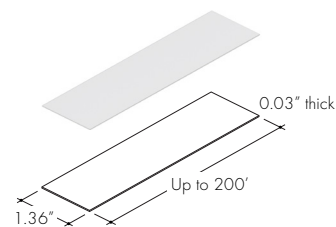
0.03" thick
Up to 200'
1.36"

Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

Warm Dim (WD68)

Nominal Length (in)	Actual Length	Watts SO	Nominal Length (in)	Actual Length	Watts SO	Nominal Length (in)	Actual Length	Watts SO	Nominal Length (in)	Actual Length	Watts SO
12	10 12/16	9.2	47	–	–	82	–	–	117	116 9/16	95.0
13	–	–	48	47 11/16	42.1	83	82 2/16	69.5	118	–	–
14	13 3/16	11.6	49	–	–	84	–	–	119	–	–
15	–	–	50	–	–	85	84 9/16	71.4	120	119	–
16	15 11/16	13.8	51	50 2/16	44.0	86	–	–	121	–	–
17	–	–	52	–	–	87	–	–	122	121 8/16	–
18	–	–	53	52 9/16	45.9	88	87 1/16	73.4	123	–	–
19	18 2/16	16.0	54	–	–	89	–	–	124	123 15/16	–
20	–	–	55	–	–	90	89 8/16	75.3	125	–	–
21	20 10/16	18.2	56	55 1/16	48.1	91	–	–	126	–	–
22	–	–	57	–	–	92	91 15/16	77.2	127	126 6/16	–
23	–	–	58	57 8/16	50.3	93	–	–	128	–	–
24	23 1/16	20.3	59	–	–	94	–	–	129	128 14/16	–
25	–	–	60	59 15/16	52.2	95	94 7/16	79.1	130	–	–
26	25 8/16	22.5	61	–	–	96	–	–	131	–	–
27	–	–	62	–	–	97	96 14/16	81.0	132	131 5/16	–
28	28	24.7	63	62 7/16	54.1	98	–	–	133	–	–
29	–	–	64	–	–	99	–	–	134	133 13/16	–
30	–	–	65	64 14/16	56.1	100	99 5/16	82.7	135	–	–
31	30 7/16	26.9	66	–	–	101	–	–	136	–	–
32	–	–	67	–	–	102	101 13/16	84.4	137	136 4/16	–
33	32 14/16	29.0	68	67 6/16	58.0	103	–	–	138	–	–
34	–	–	69	–	–	104	–	–	139	138 11/16	–
35	–	–	70	69 13/16	59.9	105	104 4/16	86.1	140	–	–
36	35 6/16	31.2	71	–	–	106	–	–	141	–	–
37	–	–	72	–	–	107	106 11/16	87.8	142	141 3/16	–
38	37 13/16	33.4	73	72 4/16	61.8	108	–	–	143	–	–
39	–	–	74	–	–	109	–	–	144	143 10/16	–
40	–	–	75	74 12/16	64.0	110	109 3/16	89.7			
41	40 4/16	35.6	76	–	–	111	–	–			
42	–	–	77	–	–	112	111 10/16	91.6			
43	42 12/16	37.7	78	77 3/16	66.1	113	–	–			
44	–	–	79	–	–	114	–	–			
45	–	–	80	79 10/16	67.8	115	114 2/16	93.3			
46	45 3/16	39.9	81	–	–	116	–	–			

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Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

Dynamic White (DW68)

Nominal Length (in)	Actual Length	Watts SO	Watts HO	Nominal Length (in)	Actual Length	Watts SO	Watts HO	Nominal Length (in)	Actual Length	Watts SO	Watts HO	Nominal Length (in)	Actual Length	Watts SO	Watts HO
12	10 12/16	7.9	9.8	47	–	–	–	82	–	–	–	117	116 9/16	68.0	73.9
13	–	–	–	48	47 11/16	34.9	43.3	83	82 2/16	53.5	62.9	118	–	–	–
14	13 3/16	9.8	12.3	49	–	–	–	84	–	–	–	119	–	–	–
15	–	–	–	50	–	–	–	85	84 9/16	55.4	64.0	120	119	68.8	74.3
16	15 11/16	11.8	14.8	51	50 2/16	36.4	44.8	86	–	–	–	121	–	–	–
17	–	–	–	52	–	–	–	87	–	–	–	122	121 8/16	69.6	74.7
18	–	–	–	53	52 9/16	38.0	46.3	88	87 1/16	57.0	65.4	123	–	–	–
19	18 2/16	13.4	16.8	54	–	–	–	89	–	–	–	124	123 15/16	70.4	75.1
20	–	–	–	55	–	–	–	90	89 8/16	58.5	66.9	125	–	–	–
21	20 10/16	15.3	19.3	56	55 1/16	39.7	47.8	91	–	–	–	126	–	–	–
22	–	–	–	57	–	–	–	92	91 15/16	59.8	68.3	127	126 6/16	71.2	75.5
23	–	–	–	58	57 8/16	40.8	49.7	93	–	–	–	128	–	–	–
24	23 1/16	17.2	21.7	59	–	–	–	94	–	–	–	129	128 14/16	71.7	75.9
25	–	–	–	60	59 15/16	41.9	51.5	95	94 7/16	60.6	69.3	130	–	–	–
26	25 8/16	19.0	24.0	61	–	–	–	96	–	–	–	131	–	–	–
27	–	–	–	62	–	–	–	97	96 14/16	61.4	70.4	132	131 5/16	72.2	76.3
28	28	20.7	26.3	63	62 7/16	43.3	53.0	98	–	–	–	133	–	–	–
29	–	–	–	64	–	–	–	99	–	–	–	134	133 13/16	72.7	76.7
30	–	–	–	65	64 14/16	45.0	54.3	100	99 5/16	62.3	71.3	135	–	–	–
31	30 7/16	22.5	28.6	66	–	–	–	101	–	–	–	136	–	–	–
32	–	–	–	67	–	–	–	102	101 13/16	63.1	72.2	137	136 4/16	73.2	77.1
33	32 14/16	24.6	30.6	68	67 6/16	46.5	55.7	103	–	–	–	138	–	–	–
34	–	–	–	69	–	–	–	104	–	–	–	139	138 11/16	73.7	77.5
35	–	–	–	70	69 13/16	47.3	57.4	105	104 4/16	64.0	72.8	140	–	–	–
36	35 6/16	26.7	32.4	71	–	–	–	106	–	–	–	141	–	–	–
37	–	–	–	72	–	–	–	107	106 11/16	64.8	73.2	142	141 3/16	74.1	77.9
38	37 13/16	28.4	34.3	73	72 4/16	48.1	59.1	108	–	–	–	143	–	–	–
39	–	–	–	74	–	–	–	109	–	–	–	144	143 10/16	74.5	78.3
40	–	–	–	75	74 12/16	49.3	60.1	110	109 3/16	65.6	73.5				
41	40 4/16	29.5	36.4	76	–	–	–	111	–	–	–				
42	–	–	–	77	–	–	–	112	111 10/16	66.3	73.5				
43	42 12/16	30.5	38.5	78	77 3/16	50.6	61.0	113	–	–	–				
44	–	–	–	79	–	–	–	114	–	–	–				
45	–	–	–	80	79 10/16	51.7	61.7	115	114 2/16	67.1	73.6				
46	45 3/16	32.7	40.9	81	–	–	–	116	–	–	–				

Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

RGB/RGBW (RGB42/RGBW36)

Nominal Length (in)	Actual Length	RGBW36 SO	RGBW36 HO	RGB42 SO	RGB42 HO
12	10 12/16	6.2	12.1	7.4	13.9
13	12 12/16	7.3	14.5	8.9	16.6
14	–	–	–	–	–
15	14 11/16	8.6	17.0	10.4	19.4
16	–	–	–	–	–
17	16 11/16	9.7	18.8	11.5	21.4
18	–	–	–	–	–
19	18 10/16	11.0	21.3	13.0	24.2
20	–	–	–	–	–
21	20 10/16	12.4	23.8	14.5	27.0
22	–	–	–	–	–
23	22 9/16	13.8	26.3	16.0	29.9
24	–	–	–	–	–
25	24 9/16	15.1	28.8	17.5	32.7
26	–	–	–	–	–
27	26 8/16	16.4	31.2	18.9	35.1
28	–	–	–	–	–
29	28 8/16	17.6	33.5	20.3	37.5
30	–	–	–	–	–
31	30 7/16	18.9	35.9	21.7	39.8
32	–	–	–	–	–
33	32 6/16	20.2	38.4	23.2	42.4
34	–	–	–	–	–
35	34 6/16	21.5	41.0	24.7	45.1
36	–	–	–	–	–
37	36 5/16	22.8	43.5	26.3	47.8
38	–	–	–	–	–
39	38 5/16	24.1	46.0	27.6	50.2
40	–	–	–	–	–
41	40 4/16	25.4	48.4	28.8	52.6
42	–	–	–	–	–
43	42 4/16	26.8	50.8	30.0	55.0
44	–	–	–	–	–
45	44 3/16	28.0	52.9	31.4	57.3
46	–	–	–	–	–
47	46 3/16	29.2	54.8	32.9	59.5
48	–	–	–	–	–
49	48 2/16	30.2	56.3	34.0	61.1
50	–	–	–	–	–
51	50 2/16	31.3	57.9	35.4	63.4
52	–	–	–	–	–
53	52 1/16	32.4	59.3	36.7	65.9
54	–	–	–	–	–
55	54 1/16	33.5	60.7	38.0	68.4
56	–	–	–	–	–
57	56	34.8	62.6	39.3	70.5
58	58	36.3	65.0	40.6	72.3
59	–	–	–	–	–
60	59 15/16	37.8	67.5	41.9	74.0
61	–	–	–	–	–
62	61 15/16	39.2	69.7	43.2	75.3
63	–	–	–	–	–
64	63 14/16	40.3	71.7	44.4	76.1
65	–	–	–	–	–
66	65 14/16	41.4	73.8	45.6	77.0
67	–	–	–	–	–
68	67 13/16	42.5	75.5	46.8	78.1
69	–	–	–	–	–
70	69 13/16	43.7	77.0	47.8	79.6
71	–	–	–	–	–
72	71 12/16	44.9	78.5	48.8	81.0
73	–	–	–	–	–
74	73 12/16	46.1	79.8	50.0	82.1
75	–	–	–	–	–
76	75 11/16	47.1	81.1	51.5	83.0
77	–	–	–	–	–
78	77 11/16	48.1	82.4	52.9	83.8
79	–	–	–	–	–
80	79 10/16	48.9	83.3	53.9	84.5
81	–	–	–	–	–
82	81 10/16	50.1	84.3	55.0	85.4
83	–	–	–	–	–
84	83 9/16	51.2	85.4	56.1	86.4
85	–	–	–	–	–
86	85 9/16	52.3	–	57.1	–
87	–	–	–	–	–
88	87 8/16	53.2	–	58.2	–
89	–	–	–	–	–
90	89 8/16	54.1	–	59.2	–
91	–	–	–	–	–
92	91 7/16	55.1	–	60.2	–
93	–	–	–	–	–
94	93 7/16	56.1	–	61.4	–
95	–	–	–	–	–
96	95 6/16	57.2	–	62.5	–
97	–	–	–	–	–
98	97 6/16	58.1	–	63.6	–
99	–	–	–	–	–
100	99 5/16	58.8	–	64.7	–
101	–	–	–	–	–
102	101 5/16	59.5	–	65.9	–
103	–	–	–	–	–
104	103 4/16	60.3	–	66.9	–
105	–	–	–	–	–
106	105 4/16	61.4	–	67.8	–
107	–	–	–	–	–
108	107 3/16	62.5	–	68.6	–
109	–	–	–	–	–
110	109 3/16	63.6	–	69.5	–
111	–	–	–	–	–
112	111 2/16	64.1	–	70.0	–
113	–	–	–	–	–
114	113 2/16	64.9	–	70.7	–
115	–	–	–	–	–
116	115 1/16	65.7	–	71.4	–
117	–	–	–	–	–
118	117 1/16	66.5	–	72.1	–
119	–	–	–	–	–
120	119	67.4	–	72.9	–
121	121	68.2	–	73.6	–
122	–	–	–	–	–
123	122 15/16	69.3	–	73.6	–
124	–	–	–	–	–
125	124 15/16	70.3	–	73.6	–
126	–	–	–	–	–
127	126 14/16	71.4	–	73.5	–
128	–	–	–	–	–
129	128 14/16	71.9	–	74.3	–
130	–	–	–	–	–
131	130 13/16	72.5	–	75.1	–
132	–	–	–	–	–
133	132 13/16	73.1	–	75.9	–
134	–	–	–	–	–
135	134 12/16	73.4	–	76.2	–
136	–	–	–	–	–
137	136 12/16	73.6	–	76.5	–
138	–	–	–	–	–
139	138 11/16	73.9	–	76.8	–
140	–	–	–	–	–
141	140 11/16	74.4	–	77.2	–
142	–	–	–	–	–
143	142 10/16	74.7	–	77.5	–
144	–	–	–	–	–

Power Consumption

Tested at Full Power with PDC Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

PIXEL (RGBX18/RGBXW18)

Nominal Length (in)	Actual Length	Watts		Nominal Length (in)	Actual Length	Watts		Nominal Length (in)	Actual Length	Watts		Nominal Length (in)	Actual Length	Watts	
		RGBX18	RGBWX18			RGBX18	RGBWX18			RGBX18	RGBWX18			RGBX18	RGBWX18
		SO	SO			SO	SO			SO	SO			SO	SO
12	8 13/16	9.2	11.3	47	–	–	–	82	–	–	–	117	–	–	–
13	12 12/16	9.2	11.3	48	–	–	–	83	–	–	–	118	–	–	–
14	–	–	–	49	48 2/16	34.9	43.9	84	83 9/16	59.5	74.1	119	–	–	–
15	–	–	–	50	–	–	–	85	–	–	–	120	119	81.8	–
16	–	–	–	51	–	–	–	86	–	–	–	121	–	–	–
17	16 11/16	12.2	15.1	52	–	–	–	87	–	–	–	122	–	–	–
18	–	–	–	53	52 1/16	37.7	47.4	88	87 8/16	62.2	77.4	123	122 15/16	84.2	–
19	–	–	–	54	–	–	–	89	–	–	–	124	–	–	–
20	–	–	–	55	–	–	–	90	–	–	–	125	–	–	–
21	20 10/16	15.2	18.8	56	–	–	–	91	–	–	–	126	–	–	–
22	–	–	–	57	56	40.5	50.8	92	91 7/16	64.8	80.7	127	126 14/16	86.6	–
23	–	–	–	58	–	–	–	93	–	–	–	128	–	–	–
24	–	–	–	59	–	–	–	94	–	–	–	129	–	–	–
25	24 9/16	18.2	22.6	60	59 15/16	43.3	54.2	95	–	–	–	130	–	–	–
26	–	–	–	61	–	–	–	96	95 6/16	66.7	83.2	131	130 13/16	89.0	–
27	–	–	–	62	–	–	–	97	–	–	–	132	–	–	–
28	–	–	–	63	–	–	–	98	–	–	–	133	–	–	–
29	28 8/16	21.1	26.4	64	63 14/16	46.1	57.6	99	–	–	–	134	–	–	–
30	–	–	–	65	–	–	–	100	99 5/16	69.3	86.4	135	134 12/16	91.4	–
31	–	–	–	66	–	–	–	101	–	–	–	136	–	–	–
32	–	–	–	67	–	–	–	102	–	–	–	137	–	–	–
33	32 6/16	23.3	29.2	68	67 13/16	48.8	61.1	103	–	–	–	138	–	–	–
34	–	–	–	69	–	–	–	104	103 4/16	71.8	89.7	139	138 11/16	93.7	–
35	–	–	–	70	–	–	–	105	–	–	–	140	–	–	–
36	–	–	–	71	–	–	–	106	–	–	–	141	–	–	–
37	36 5/16	26.3	33.0	72	71 12/16	51.5	64.5	107	–	–	–	142	–	–	–
38	–	–	–	73	–	–	–	108	107 3/16	74.3	92.9	143	142 10/16	–	–
39	–	–	–	74	–	–	–	109	–	–	–	144	–	–	–
40	–	–	–	75	–	–	–	110	–	–	–				
41	40 4/16	29.2	36.6	76	75 11/16	54.2	67.8	111	–	–	–				
42	–	–	–	77	–	–	–	112	111 2/16	76.8	–				
43	–	–	–	78	–	–	–	113	–	–	–				
44	–	–	–	79	–	–	–	114	–	–	–				
45	44 3/16	32.0	40.3	80	79 10/16	56.9	70.9	115	–	–	–				
46	–	–	–	81	–	–	–	116	115 1/16	79.3	–				

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

Power Supplies

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

For use with Warm Dim, WD68

Triac, MLV, & ELV Compatible Dimmers

MODEL	POWER	OUTPUT
	-	-

PDC - (IP20) Power Supply | 96 - 96 Watts | 24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"

PDC

Neutral
Ground
Load

24V DC+ — LineLED
24V DC-
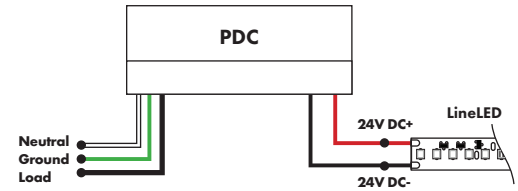
For use with Dynamic White, DW68

0-10V Warm Dimming 0% Power Supply 120VAC - 277VAC
(for warm dimming of Dynamic White option)

MODEL	POWER	OUTPUT
	–	–

PS010WD - 0-10 Warm dim LED Power Supply | 96 - 96 Watt | 24 - 24 VDC

Requires a 0-10V controller to work properly

PS010WD-96-24

Load
Ground
Neutral
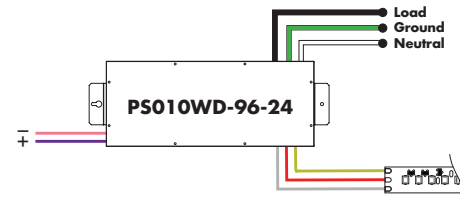
0-10V Tunable White 0% Dimming Power Supply 120VAC - 277VAC
(for tunable white control of Dynamic White option)

MODEL	POWER	OUTPUT
	–	–

PS010TW - 0-10 Tunable White LED Driver | 96 - 96 Watt | 24 - 24 VDC

MODELS	PS010TW
A Length	14.40"
B Width	2.60"
C Depth	5.20"

Requires two 0-10V controllers to work properly

Controller 1:
0-10V for intensity

Controller 2:
0-10V for color temperature

PS010TW-96-24

Load
Ground
Neutral

INPUT
120 - 277VAC

lineLED 96 W max

24V DC+   24V DC-
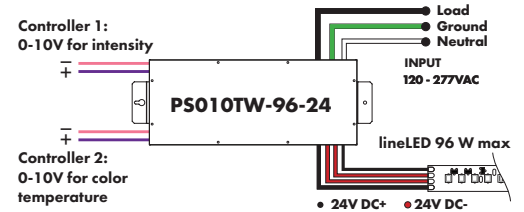
Customizable Dim to Warm or Variable White via 0 - 10V
(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL

PS010V - 0-10 LED Driver | 96 - 96 Watt | 24 - 24 VDC |

WW- Standard One Channel - Dim To Warm Curve
W2C- Standard Two Channel - Dim 1: Intensity; Dim 2: CCT
W21- Standard Two Channel - Dim 1: Warm Channel Intensity; Dim 2: Cool Channel Intensity
W1X-____Custom One Channel - Dim To Warm Curve
W2X-____Custom two Channel - Dim 1: Intensity; Dim 2: CCT

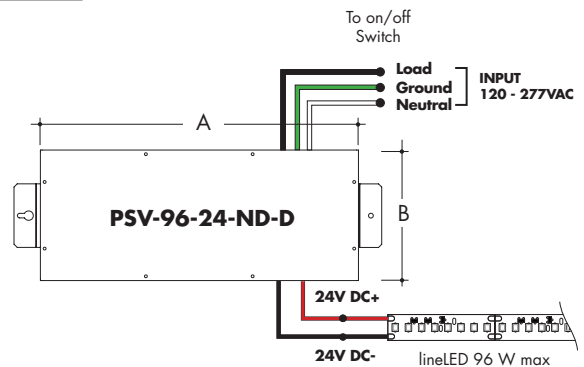Requires a 0-10V controller to work properly

Input
Dali controller wires

OUTPUT
Dali controller wires
to the next LED Driver

PS010V-96-24-

Load
Ground
Neutral

LED COOL-   LED WARM+   LED COOL+
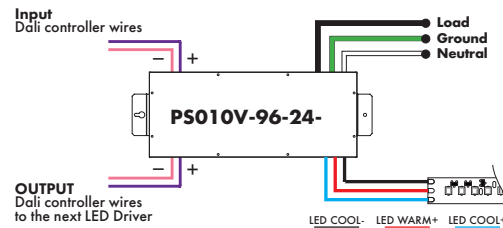
For use with RGB/RGBW/Pixel, RGB42/RGBW36/RGBX18/RGBWX18

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
	-	-	-	

PSV - PSV Series | 96 - 96 Watt | 24 - 24 VDC | ND - Non Dimming | D - Dry location

Requires a controller and a decoder to work properly

MODELS	96W
A Length	14.40"
B Width	5.20"
Depth	2.60"

To on/off Switch

Load
Ground
Neutral

INPUT
120 - 277VAC

A

PSV-96-24-ND-D

B

24V DC+
24V DC-

lineLED 96 W max

Power Supplies

See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

### For use with RGB/RGBW, RGB42/RGBW36 or with Dynamic White, DW68

DMX 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX - DMX Power Supply dims down to 0%	**96** - 96 Watt **3X96** - 3 X 96 Watt	**24** - 24 VDC

	MODELS	96W	3X96
A	**Length**	14.40"	15.75"
B	**Width**	5.20"	6.62"
	Depth	2.60"	4.95"

Features eldoLED's LINEARdrive configurable dimmable drivers.
DDMX-RGBW DMX Decoder not required when purchasing this power supply.
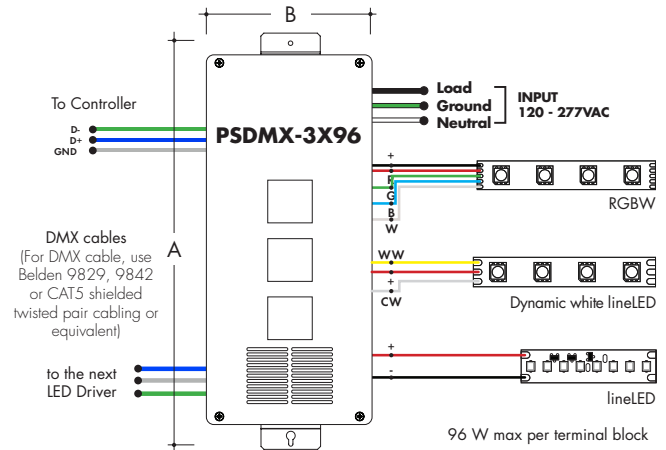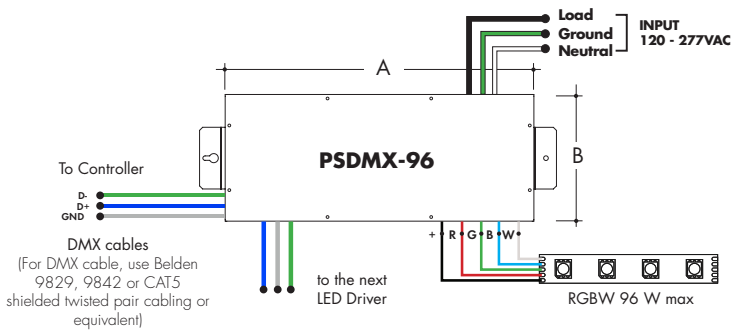
DMX-1Z-RGBW, DMX-3Z-RGBW

RGBW LED 1 or 3 Zone Controller
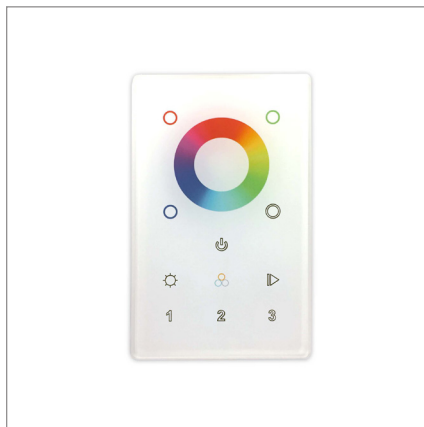
DMX /Wireless RGB-W wall-mount controller controls DMX lighting fixtures, wireless control of RGB-W lighting fixture or use both simultaneously. Fits in any standard US switch box. Includes all the outputs in the back of the controller.

Control brightness levels with a single touch, personalize and memorize 3 different scenes, and even create 3 variations of white.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- 65,000 Color Options, Dimming and Speed Control
- Memory Function
- 50 Foot Wireless Range
- Easily Fits Standard US Switch Boxes
- Touch Sensitive Glass Surface
- Includes 10 Built in Programs, or Create and Play Your Own
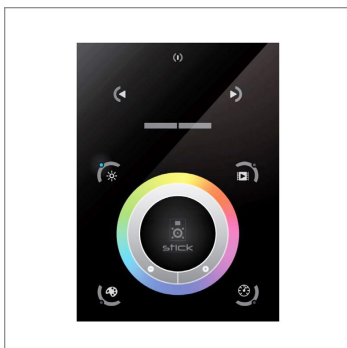
Operating Voltage

12 - 24V DC

Color Parameters

- Brightness
- Saturation
- Primary colors
- Fading
- Color changing speed

ORDERING CODE

MODEL	ZONES	COLOR
DMX - DMX Controller	**3Z** - Three Zone **1Z** - One Zone	**RGBW** - Red, Green, Blue, & White

Touch DMX Controller

Touchscreen digital LED controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

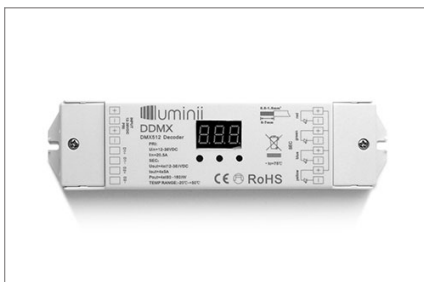**Programmability**

PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

DMX Decoder

DMX signal to RGBW decoder (required to operate DMX controller)

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

DDMX-RGBW

DDMX-RGBW - DMX decoder

Smart Pixel Decoder

SPI signal to DMX signal decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls RGB/RGBW pixel LED strips with SPI signal. Designed with an OLED backlit panel, the pixel controller allows for easy configuration of most settings. Four push buttons are available for control of the LED functions.

*For pixel only.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable and RF/WIFI remote controllable
- Capable of addressing up to 1020 RGB pixels & 765 RGB pixels
- OLED panel allows for easy configuration

Operating Voltage

12 - 36V DC

Power capacity

up to 96W at 24V

Operating temperature range

from -4°F to +122°F in case

Model
SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder