

**Product Information**

Project Name	Type
Catalog Number	Date

**SPECIFICATIONS**

**Features**

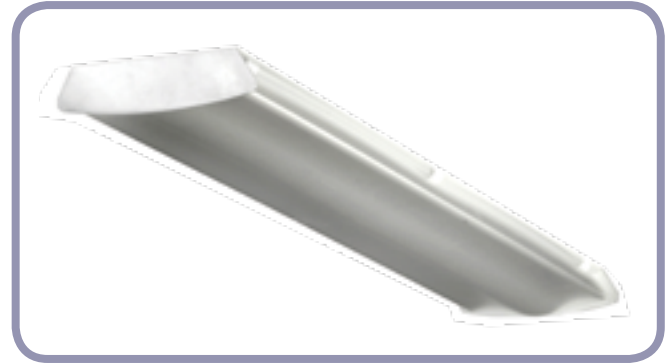
- Labor saving pre-wired assembly, ready for immediate installation; meets NEC (to install a fixture on another fixture as the channel is considered a wiring enclosure).
- Replace outdated, non-efficient strip lighting with low wattage, high lumen solutions.
- Compact size with excellent light distribution fits standard 4.25" strips.
- Choice of four lumen packages and dimming option available.
- Long-life LEDs at L80 (80% lumen maintenance) at 60,000 hours reduce life cycle maintenance costs.
- Instant re-start, no warm-up times or reduced light output in cold environments.
- Optional emergency battery backup for safety lighting.
- Available in 4' and 8' lengths.
- Up to 103 lumens per watt.
- Color Rendering Index (CRI) > 80
- Made In USA. Meets ARRA & Buy American requirements.

**Construction**

- Conversion kit includes pre-wired LED engine assembly on white gear tray, driver cover (for stand-alone fixture) and frosted diffuser to eliminate pixilation.
- Certain airborne contaminants can diminish integrity of acrylic. Contact factory for chemical compatibility.
- Optional sensor, requires field installation
- Weight: 1x4 - 4 lbs. 1x8 - 9 lbs.

**Electrical**

- Input Voltage Range: 120-277 VAC Nom.
- Frequency: 50/60 Hz Nom.
- Active Power Factor Correction
- Power Factor: >0.90 @ full load, 120V through 277V
- Harmonic Distortion: THD < 20% @ full load
- Protection: Over-Voltage, Over-Temperature (110°) & Short Circuit
- Compliant to FCC Part 15 requirements for EMI/RFI emissions
- NEC/CEC compliant ballast disconnect is standard.
- Optional surge protection: ANSI Std. C62.41.2 Category A (10kV)
- Optional emergency battery pack



**Certifications**

- CSA listed for U.S. & Canada. UL listed 1598, 1598C, 8750 for U.S. & Canada. CSA C22.2
- Luminaires bear appropriate listing labels.
- Emergency-equipped fixtures labeled UL 924.
- Adheres to LM79, LM80 and TM21 industry standards.
- DesignLights Consortium® (DLC) qualified.
- Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org).
- Please refer to the Lighting Facts website for specific product qualifications at [www.lightingfacts.com](http://www.lightingfacts.com).

**Application**

- Suitable for use with most wired or wireless lighting control systems
- Suitable for dry & damp locations:
  - Government buildings
  - Commercial areas
  - Industrial areas
  - Stairwells
  - Task Lighting
  - Schools
  - Hallways
  - Closets

**Warranty**

- Five-year warranty. (Terms and Conditions Apply)

**CERTIFICATION**



**ORDERING INFORMATION**

**EXAMPLE CKL-1X4-ML-F-UL-40K**

MODEL	LUMEN OUTPUT	CHANNEL WIDTH <sup>1</sup>	DRIVER OUTPUT	DRIVER VOLTAGE	OCC SENSOR <sup>4</sup>	OTHER
CKL Standard Strip LED Conversion Kit	<b>XL</b> Extra Low Non DLC (35K)	<b>C/4.00</b> Existing Width 4.00"	<b>F</b> Fixed	<b>UL</b> Universal 120/277 VAC	<b>DH-SH</b> Digital Dimming High-Bay Sensor	<b>EB</b> Emergency Battery Backup
<b>SIZE</b>	<b>LW</b> Low	<b>C/4.25</b> Existing Width 4.25"	<b>DM</b> 0-10v Dimming <sup>2</sup>	<b>COLOR TEMP</b>	<b>DH-SL</b> Digital Dimming Low-Bay Sensor	<b>LSP</b> Lighting Surge Protector (270 Joules)
<b>1x4</b> 1x4 Nominal	<b>ML</b> Medium	<b>C/4.50</b> Existing Width 4.50"	<b>BL</b> Bi-Level <sup>3</sup>	<b>35K</b> 3500	<b>DB-SH</b> Digital Bi-Level High-Bay Sensor	<b>JP</b> Job Pack
<b>1x8</b> 1x8 Nominal	<b>HL</b> High			<b>40K</b> 4000	<b>DB-SL</b> Digital Bi-Level Low-Bay Sensor	<b>DSK</b> Primary-4' LED Centered in 8 Primary 4' LED Centered in 8', No Plug
				<b>50K</b> 5000		<b>PR1</b> PR w/ (1) Female Plug to Connect RE Option <sup>5</sup>
						<b>PR2</b> PR w/ (2) Female Plugs to connect RE1 Option <sup>5</sup>
						<b>RE</b> Replica <sup>6</sup>
						<b>RE1</b> RE w/ (1) Male Plug to Connect to PR 1 or 2 Option <sup>6</sup>

**FOOTNOTES**

1. Contact factory for additional widths available.
2. Must be used in conjunction with lighting controls.
3. Bi-Level driver must be controlled by sensor or A/B switching.
4. When ordered without Primary options sensor is for fixture end mount installation.
5. Must be ordered with sensor, sensor is installed in 8' ballast cover.
6. No sensor required; for daisy chaining applications.

**PHOTOMETRIC DATA**

**PHOTOMETRIC DATA: CKL-1X4-ML-F-UL-40K**

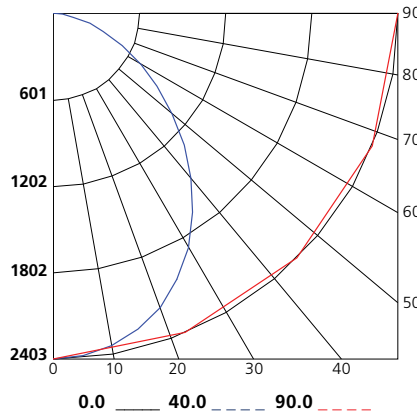
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified lab.

Test: L04134324  
Test Date: 4/17/13

**LUMINAIRE DATA**

Luminaire	<b>CKL-1X4-ML-F-UL-40K Standard Strip LED Conversion Kit</b>
Ballast	<b>LED75W-054-C1400-M-D</b>
Ballast Factor	<b>1.00</b>
Lamp	<b>LED</b>
Fixture Lumens	<b>6872</b>
Watts	
Mounting	<b>Wall, Suspended &amp; Ceiling</b>
Shielding Angle	<b>N/A</b>
Spacing Criterion	<b>0° = 1.18 90° = 1.18</b>
Luminous Opening in feet	<b>Length: 4.00 Width: 0.44 Height: 0.09</b>

**INDOOR CANDELA PLOT**



**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	860	N.A.	13
0-30	1788	N.A.	26
0-40	2879	N.A.	42
0-60	5040	N.A.	73
0-80	6407	N.A.	93
0-90	6690	N.A.	97

**AVG. LUMINANCE (Candela/Sq. M.)**

	0.0	22.5	45.0	67.5	90.0
0	2403	2403	2403	2403	2403
5	2389	2388	2386	2384	2381
10	2346	2345	2335	2328	2316
15	2275	2266	2249	2232	2223
20	2174	2158	2137	2116	2107
25	2040	2029	2008	2003	1992
30	1882	1866	1878	1889	1889
35	1689	1704	1747	1777	1784
40	1494	1539	1618	1670	1683
45	1292	1366	1489	1560	1582
50	1081	1181	1344	1436	1460
55	882	1009	1199	1306	1327
60	708	831	1052	1162	1182
65	532	661	884	997	1018
70	372	505	731	831	843
75	263	346	581	658	660
80	144	239	431	494	489
85	65	148	306	347	330

**COEFFICIENTS OF UTILIZATION (%)**

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	110	110	110	97	
1	107	102	97	93	104	99	95	91	95	91	88	79	
2	97	88	81	75	94	86	80	74	82	77	72	65	
3	88	77	69	62	86	76	68	61	72	65	60	55	
4	81	69	59	53	78	67	59	52	64	57	51	47	
5	74	61	52	45	72	60	51	45	57	50	44	40	
6	69	55	46	39	67	54	45	39	52	44	39	35	
7	64	50	41	35	62	49	41	35	47	40	34	31	
8	59	46	37	31	58	45	37	31	43	36	31	28	
9	55	42	34	28	54	41	33	28	40	33	28	25	
10	52	39	31	25	51	38	30	25	37	30	25	23	

RCR = Room Cavity Ratio RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

**OPERATING ENVIRONMENT**

Proposed System	Min Temp	Max Temp
CKL-1X4-XL	-30°C/-22°F	50°C/122°F
CKL-1X4-LW	-30°C/-22°F	50°C/122°F
CKL-1X4-ML	-30°C/-22°F	50°C/122°F
CKL-1X4-HL	-30°C/-22°F	45°C/113°F
CKL-1X8-XL	-30°C/-22°F	50°C/122°F
CKL-1X8-LW	-30°C/-22°F	50°C/122°F
CKL-1X8-ML	-30°C/-22°F	50°C/122°F
CKL-1X8-HL	-30°C/-22°F	45°C/113°F

**Application Notes**

1. Application temperatures are provided to ensure the longevity and performance of the driver and LEDs.
2. Results are based off the In-Situ Temperature Measurement Test (ISTMT) along with the drivers' temperature and life curves.
3. Optional emergency battery equipped units have a minimum temperature of 10°C.
4. Precision-Paragon [P2]'s 5 year warranty assumes operation at the maximum ambient temperature range.

**PROJECTED LUMEN MAINTENANCE**

Operating Hours	0	10,000	20,000	25,000	35,000	50,000	60,000	75,000	100,000
Lumen Maintenance Factor	1.00	0.94	0.91	0.90	0.87	0.83	0.80	0.76	0.70

\*Lumen maintenance factor is based off LM-80 of LEDs, does not include driver life.

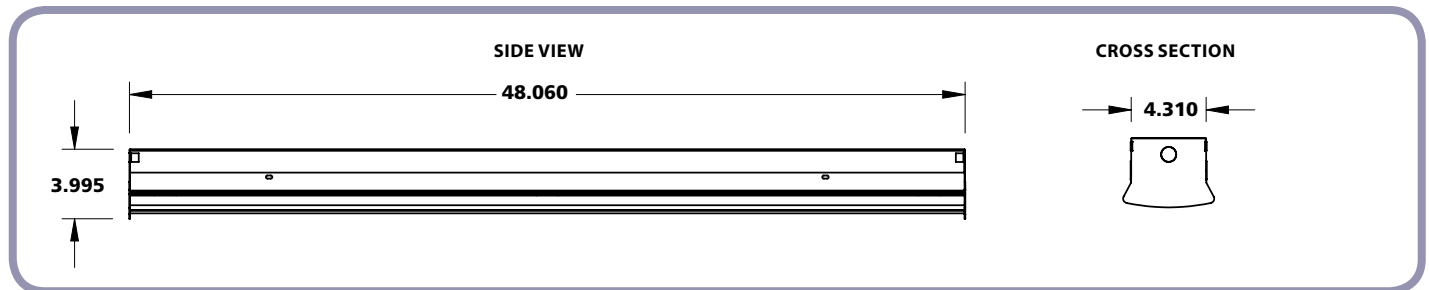
**LUMEN PACKAGE OPTIONS**

Proposed System	Lumen Output	CRI	CCT	4000K DETAILS*			5000K DETAILS**			
				Lumens Per Fixture	Input Watts	Lumens Per Watt	CCT	Lumens Per Fixture	Input Watts	Lumens Per Watt
CKL-1X4-XL	XL	>80	4000K	3507	36	96	5000K	3577	37	96
CKL-1X4-LW	LW	>80	4000K	5026	51	99	5000K	5126	52	99
CKL-1X4-ML	ML	>80	4000K	6856	71	97	5000K	6993	72	97
CKL-1X4-HL	HL	>80	4000K	9890	96	103	5000K	10088	98	103
CKL-1X8-XL	XL	>80	4000K	7014	73	96	5000K	7154	74	96
CKL-1X8-LW	LW	>80	4000K	10051	102	99	5000K	10252	104	99
CKL-1X8-ML	ML	>80	4000K	13712	141	97	5000K	13986	144	97
CKL-1X8-HL	HL	>80	4000K	19779	191	103	5000K	20175	195	103

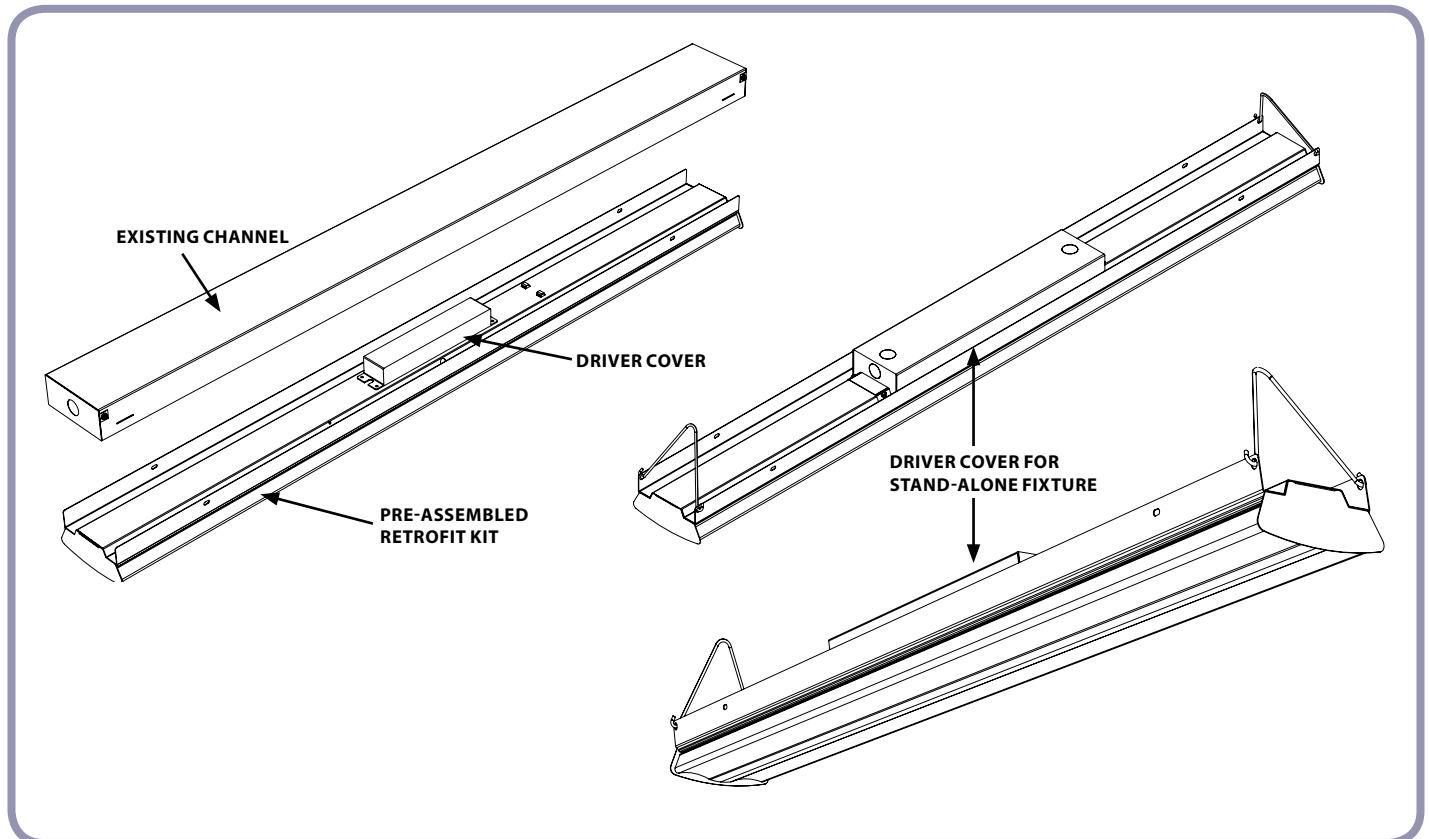
\*Lumen values shown are initial delivered lumens tested at 25°C per IES LM-79 standards.

\*\*Lumen values calculated with 1.02 multiplier based on LED manufacturer data.

**DIMENSIONS**



**DRAWINGS**



**DRAWINGS**

