

DESCRIPTION

The Industrial LED Linear Bay is the energy efficient solution for both low bay and high bay applications. The Linear Bay has been optimized to provide maximum performance utilizing the latest in LED technology. Several lumen packages and distributions make it suitable for a wide range of applications including "big box" retail, shopping malls, school gymnasiums, light industrial, warehouse and manufacturing.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Specification grade full body housing, end plates and socket tracks are die formed cold rolled steel in 4' or 8' lengths. The housing features an integral driver channel that adds strength and provides numerous KO's for easy installation.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3500k, 4000k and 5000k with a CRI ≥ 80. cULus listed. Electronic drivers are available for 120-277V, 347V and 480V applications. 0-10V dimming driver is standard. Optional modular power receptacle meets UL2459 and NEC 410.73 and is UL/cUL rated for make and break under load from outside the luminaire to speed maintenance.

Finish

Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

Optics

Optical modules are enclosed inside housing to protect against damage. Available in narrow or wide distributions. Narrow beam optical modules utilize 95% specular aluminum finish. An optional attractive thin blade white baffle adds longitudinal shielding. A clear or frosted white acrylic lens is also available. Optional heavy duty wireguard can be used with or without the lens or baffle. Latched retention of shielding optics (safety leader restraints) allows for easy access.

Mounting

Suitable for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available. Narrow 11" housing allows mounting within 12" horizontally from the nearest edge of the sprinkler deflector.

Compliance

Luminaires are cULus listed for damp locations -20°C - 45°C ambient environments. RoHS compliant, and LED modules comply with IESNA LM-79/LM-80 standards. DesignLights Consortium™ Qualified and classified for DLC Standard, refer to www.designlights.org for details.

Options

Integral Occupancy Sensor available and provides from 600 sq. ft. (MS) up to 1250 sq. ft. (MSO) of coverage at a maximum mounting height of 40'.

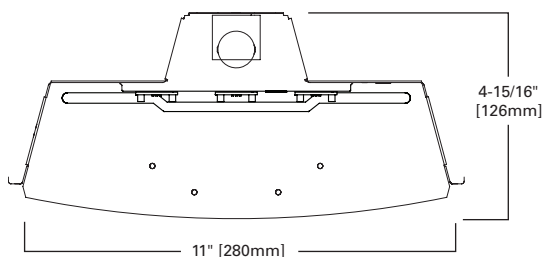


INDUSTRIAL LED LINEAR BAY

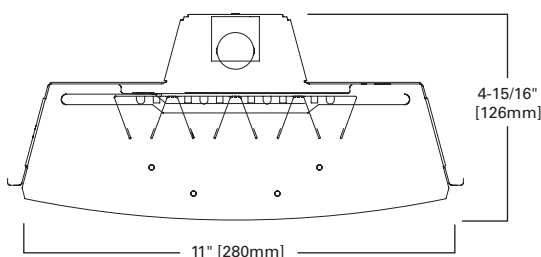
LED Linear Bay Lighting System



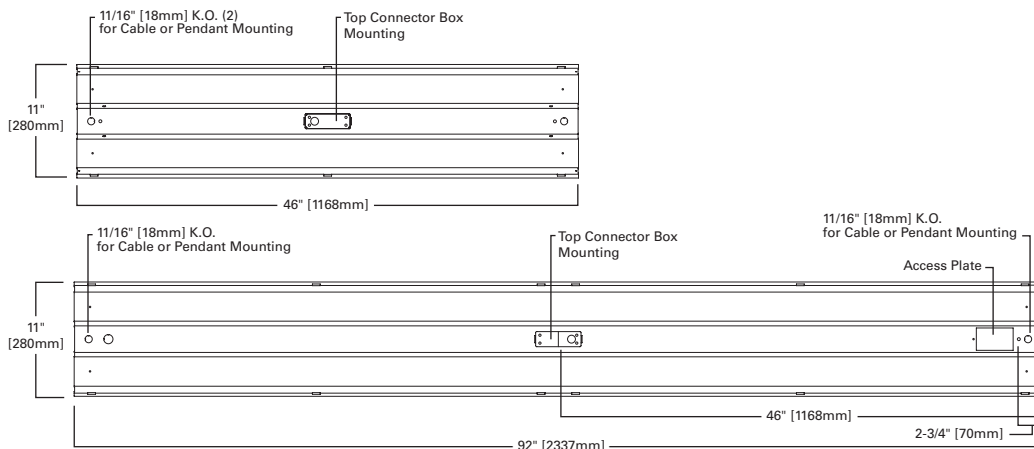
WIDE DISTRIBUTION



NARROW DISTRIBUTION



MOUNTING DATA



CERTIFICATION DATA

Damp Location Listed
LM79/LM80 Compliant
ROHS Compliant
DesignLights Consortium™ Qualified

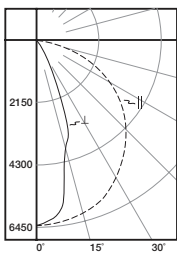
ENERGY DATA

Catalog No.	Input Watts
4ILED-LD4-5	35
4ILED-LD4-7	57
4ILED-LD4-9	74
4ILED-LD4-11	101
4ILED-LD4-14	115
4ILED-LD4-16	145

LINEAR DISCONNECT

Safe and convenient means of disconnecting power

PHOTOMETRICS

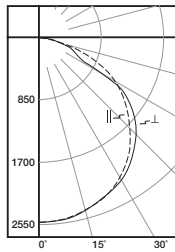


4ILED-LD4-7-N-UNV-L835

Electronic Driver
 Linear LED 3500K
 Spacing criterion:
 (H) 1.3 x mounting
 height, (L) 0.6 x
 mounting height
 Lumens: 6392
 Input Watts: 57.0W
 Efficacy: 112.1 lm/W
 Test Report:
 4ILED-LD4-7-N-UNV-
 L835.IES

Candlepower

Angle	Along H	45°	Across L
0	6355	6355	6355
5	6328	6165	6133
10	6247	5951	5334
15	6119	4995	3720
20	5948	3680	3091
25	5718	3255	1170
30	5459	2079	482
35	5130	846	102
40	4764	353	69
45	4350	79	30
50	3857	45	15
55	3377	26	14
60	2824	21	13
65	2251	19	12
70	1661	17	11
75	1056	16	10
80	525	14	7
85	95	10	6
90	0	0	0



4ILED-LD4-7-W-UNV-L840

Electronic Driver
 Linear LED 4000K
 Spacing criterion:
 (H) 1.3 x mounting
 height, (L) 1.3 x
 mounting height
 Lumens: 7246
 Input Watts: 56.6W
 Efficacy: 120 lm/W
 Test Report:
 4ILED-LD4-7-W-
 UNV-L840.IES

Candlepower

Angle	Along H	45°	Across L
0	2511	2511	2511
5	2501	2499	2510
10	2477	2474	2482
15	2431	2428	2439
20	2366	2371	2383
25	2285	2295	2308
30	2187	2205	2224
35	2058	2103	2120
40	1910	1987	1983
45	1748	1832	1836
50	1577	1660	1667
55	1373	1467	1484
60	1166	1256	924
65	942	1029	556
70	707	425	434
75	468	300	222
80	243	135	70
85	68	46	45
90	0	0	0

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																						
	80%				70%				50%				30%				10%				0%		
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	87	85	
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81	81	81	77	73	
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73	73	73	69	66	
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	62	60	
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60	60	60	57	55	
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55	51	48	
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51	47	44	
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48	48	48	44	41	
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44	44	44	40	37	
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	37	34	

Coefficients of Utilization

rc rw RCR	Effective floor cavity reflectance																						
	80%				70%				50%				30%				10%				0%		
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85	85	85	81	78	
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71	71	71	67	64	
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60	60	60	57	54	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51	47	44	
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44	44	44	40	37	
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	35	32	
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	34	30	27	
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	26	23	
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	23	20	
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25	21	18	

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	3500	54.8
0-40	4603	72.0
0-60	5906	92.4
0-90	6392	100.0
0-180	6392	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	4350	79	30
55	3377	26	14
65	2251	19	12
75	1056	16	10
85	95	10	6

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1986	27.4
0-40	3299	45.5
0-60	5987	82.6
0-90	7246	100.0
0-180	7246	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	1748	1832	1836
55	1373	1467	1484
65	942	1029	556
75	468	300	222
85	68	46	45

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
35°C	> 86%	171,000

Modular Power Supply Option

Eaton's Modular Power Supply option is available for use with all Metalux products. The modular power supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power with Modular Power Supply. Access to the individual fixture's power supply allows servicing without turning off all the fixtures, disrupting occupants. The Modular Power Supply is a time-saver in installation – **simply plug & power.**



1. Modular Power Supply Receptacle supplied mounted into fixture Access Plate
2. Modular Power Cord & Plugs in 120, 277, 347, & 480V configurations for easy plug & power into existing supply

No internal fixture access required for installation or disconnecting power

Modular Motion Sensor Option supplied with Mounting Box and Modular Power Supply Receptacle

Code Compliance

- UL/cUL Certified for Make/Break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of Occupancy Sensor without hard connections
- Receptacles complete with insulating/dust cap

ORDERING INFORMATION

SAMPLE NUMBER: 4ILED-LD4-9-W-FL-UNV-L840-CD1-U

Length 4=4' Length 8=8' Length	Series ⁽¹⁰⁾ ILED=LED High Bay	Mounting Arrangement Blank=Stand Alone R=Continuous Row Mount	Lamp Type LD4=LED 4.0	LED Lumen Output <table border="1"> <tr> <td>4 ft.</td> <td>8 ft.</td> </tr> <tr> <td>5=5,000 Lumens</td> <td>10=10,000 Lumens</td> </tr> <tr> <td>7=7,000 Lumens</td> <td>14=14,000 Lumens</td> </tr> <tr> <td>9=9,000 Lumens</td> <td>18=18,000 Lumens</td> </tr> <tr> <td>11=11,000 Lumens</td> <td>22=22,000 Lumens</td> </tr> <tr> <td>14=14,000 Lumens</td> <td>28=28,000 Lumens</td> </tr> <tr> <td>16=16,000 Lumens ^(1,7)</td> <td>32=32,000 Lumens ^(1,7)</td> </tr> </table>	4 ft.	8 ft.	5=5,000 Lumens	10=10,000 Lumens	7=7,000 Lumens	14=14,000 Lumens	9=9,000 Lumens	18=18,000 Lumens	11=11,000 Lumens	22=22,000 Lumens	14=14,000 Lumens	28=28,000 Lumens	16=16,000 Lumens ^(1,7)	32=32,000 Lumens ^(1,7)	Voltage UNV=Universal 120-277 Voltage UNC=Universal 347/480 Voltage 120V=120 Volt 277V=277 Volt 347V=347 Volt ⁽⁴⁾ 480V=480 Volt ⁽⁴⁾	Driver Type CD=0-10V Dimming (standard) SD=Step-dim Driver ⁽⁷⁾ 5LTD=Fifth Light DALI	Options Wiring PI_NG=Plug In System (1, 2, or 3 Circuit Capability), No Ground (ground provided by fixture body) ⁽⁶⁾ PI_WG=Plug In System (1, 2, or 3 Circuit Capability), With Ground (separate ground wire in harness) ⁽⁶⁾ CPI_NG=Crossover Plug In System (2 or 3 Circuit Capability), No Ground (ground provided by fixture body) ⁽⁶⁾ CPI_WG=Crossover Plug In System (2 or 3 Circuit Capability), With Ground (separate ground wire in harness) ⁽⁶⁾ MWS=Modular Wiring System	Packaging U=Unit Pack PAL=Palletized Out of Carton PALC=Palletized In Carton
4 ft.	8 ft.																					
5=5,000 Lumens	10=10,000 Lumens																					
7=7,000 Lumens	14=14,000 Lumens																					
9=9,000 Lumens	18=18,000 Lumens																					
11=11,000 Lumens	22=22,000 Lumens																					
14=14,000 Lumens	28=28,000 Lumens																					
16=16,000 Lumens ^(1,7)	32=32,000 Lumens ^(1,7)																					
Number of Drivers 1=1 Driver (10,000 lumen) 2=2 Drivers (16,000, 14,000, 18,000 and 22,000 lumen) 4=4 Drivers (28,000 and 32,000 lumen)	Options Emergency EL7W=Emergency Installed, 7 Watts ^{(3), (4)} EL14W=Emergency Installed, 14 Watts ^{(3), (4)} GTD2=Bodine Generator Transfer Device ⁽⁸⁾ ETS2=IOTA Emergency Transfer Switch ⁽⁸⁾	Options MS=360° or 180° Motion Sensor, 120 through 347, or 480V MP=Modular Power Receptacle (Used for all Cord or Cord and Plug options)	Accessories (order separately) ILED-SPM=Single Monopoint Hanger w/Hub FH-1=Fixture Hook FL-1=Fixture Loop SHK=Fixture Hook AYC-CHAIN/SET/U=(2) Hooks, 36" Chain Sets w/S-Hooks TOGGLE=Single Toggle, #2 Cable (Specify 10' or 30') LOOP=Loop Hanger, #2 Cable (Specify 10' or 30') MC6=6' Modular Power Cord MPC6=6' Modular Power Cord & Plug (Specify Voltage) MMS=360° or 180° Aisle Motion Sensor with Modular Power Receptacle (120-277V) MDS6=6' Modular Power Cord with MWS 27DS18/2G06MP Connector																			
Distribution N=Narrow ⁽²⁾ W=Wide	Shielding Options Blank=Open TBW=Thin White Baffle ⁽⁵⁾ FL=Frosted Acrylic Lens & Frame ^{(2), (5)} FL/UPL=Frosted Lens w/Uplight ^{(2), (5)} CL=Clear Acrylic Lens & Door Frame ^{(2), (5)} ASY=Asymmetric Directional Louver ^{(2), (5)} WG=Heavy Duty Wireguard	Door Frames (for Field Installation) ⁽⁹⁾ ILED-4-FRM/FL-PK=4 ft. Frosted Acrylic Lens & Frame ILED-4-FRM/CL-PK=4 ft. Clear Acrylic Lens & Frame ILED-4-WG-PK=4 ft. Wireguard ILED-4-TBW-PK=4 ft. Thin White Baffle ILED-4-ASY-PK=4 ft. Asymmetric Directional Louver																				

NOTES: ⁽¹⁾ Max. ambient 40C for 16K and 32K lumen packages. ⁽²⁾ Narrow distribution not available with FL, FL/UPL, CL and ASY shielding options. ⁽³⁾ Max. ambient 35C for EL options. ⁽⁴⁾ EL not available in 347 or 480V configurations. ⁽⁵⁾ Wireguard available in conjunction with shielding option (catalog example TWB/WG). ⁽⁶⁾ PI option does not include low voltage wiring for 0-10V dimming. ⁽⁷⁾ Step-dim not available in 16,000 and 32,000 lumen configurations. ⁽⁸⁾ Used to transfer fixture to secondary power source for life-safety operation. When used with a dimming fixture, two devices are required to ensure control is disabled while operating under emergency power. ⁽⁹⁾ 8 ft. fixtures require two door frames per fixture. ⁽¹⁰⁾ DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages), refer to www.designlights.org for details.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

PI OPTION ORDERING INFORMATION

Catalog Number Suffix	Number of Circuits	Circuit Wired To Ballast
PI 1 BLK	1	Black
PI 2 BLU	2	Blue
PI 2 BLK	2	Black
PI 3 RED	3	Red
PI 3 BLU	3	Blue
PI 3 BLK	3	Black

Catalog Numbering System

The PI System is available in sections up to 8' in length for continuous row wiring by simply plugging the sections together. Each PI section is factory wired to the ballast leads. Color coding of wires is as follows:

- PI-1 = One Circuit - 2 Wires: one black, one white
- PI-2 = Two Circuits - 3 Wires: one black, one blue, one white
- PI-3 = Three Circuits - 4 wires: one black, one blue, one red, one white

When ordering the PI2/PI3 System it is necessary to specify the number of fixtures required for each circuit. Each circuit in fixture must be ordered as a separate line item, with a different hot wire color specified. All wiring to external feeds, using cord or cord & plug, are responsibility of installing licensed contractor. Cord and cord & plug sets must be ordered separately if PI option is chosen.

PI1 - Single Circuit Plug-In

SAMPLE NUMBER: PI1BLK-WG

PI1= Single Circuit	NG= No Ground (ground provided by fixture body) WG= With Ground (separate ground wire in harness)
BLK=Black Hot	

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

PI2 - Two Circuit Plug-In

SAMPLE NUMBER: PI2BLK-WG

PI2= Two Circuit	Leave Blank=Single Neutral 2NEU=Two Neutrals
BLK=Black Hot BLU=Blue Hot	NG= No Ground (ground provided by fixture body) WG= With Ground (separate ground wire in harness)
Leave Blank=Single Neutral /WHT=White Neutral /GRY=Gray Neutral	

PI3 - Three Circuit Plug-In

SAMPLE NUMBER: PI3BLK-WG

PI3= Three Circuit	Leave Blank=Single Neutral 2NEU=Two Neutrals
BLK=Black Hot BLU=Blue Hot RED=Red Hot	NG= No Ground (ground provided by fixture body) WG= With Ground (separate ground wire in harness)
Leave Blank=Single Neutral /WHT=White Neutral /GRY=Gray Neutral	

SHIPPING DATA

Catalog No.	Wt.
4ILEDL	15 lbs.
8ILED	30 lbs.