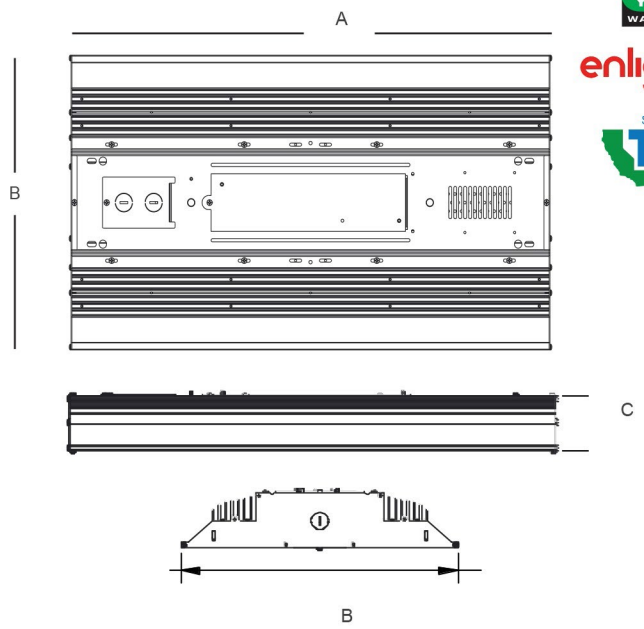
PROJECT NAME:_____ CATALOG NUMBER:_____

NOTES:_____FIXTURE SCHEDULE:_____

LED HIGH BAY LINEAR



PRODUCT DESCRIPTION:

The LED Linear Highbay Series offers leading-edge efficacy and scalability for high ceiling applications such as warehouses, distribution centers, manufacturing facilities and big box retailers. Measuring just 14" x 24," the LED luminaires deliver the high lumen output associated with traditional fluorescent and HID highbays in a form factor one-quarter the size.

The Linear Highbay Series can be configured with narrow or wide beam distributions, and emergency controls, for optimal lumen output and energy savings. Choose from cable, pendant and surface mounting options to create a custom solution that meets any lighting requirement.

FEATURES:

- Narrow and wide lens distribution
- Operating temperature -34°C to 50°C (-30°F to 122°F)
- Suitable for Damp locations
- L70 lifetimes projected to be 100,000 hours
- 347-480V option available
- Translucent lens offered for diffuse light
- Wire guard available for additional protection
- 0-10V Dimming standard
- 100W equivalent to 250W fluorescent high bay and 150W & 200W equivalent to 400W HID fixture
- 7 year limited warranty (10 year limited warranty available

Dimensions			
Product	**A**	**B**	**C**
100W	24.06"	13.69"	2.73"
150W	24.06"	13.69"	4.23"
200W	24.06"	13.69"	4.23"

MODEL SELECTION — Typical order example: HL-150UW-50EM

HL							
FAMILY	**WATTAGE**	**VOLTAGE**	**BEAM SPREAD**	**CCT**	**OPTIONS**		
HL= High Bay Linear	**100=** 100W **150=** 150W **200=** 200W	**U=** 120-277V **H=** 347-480V[1]	**N=** Narrow **W=** Wide	**50=** 5000K	**OMIT=** None **EM =** Battery Backup Unit	**OMIT=** None **MSO=** On/Off Sensor **MSV=** Bi-Level Sensor **MSC=** CA T24 Sensor	**Omit=** None **TS=** Translucent Lens **EN=** Enlighted Ready - Sensor and Relay Installed **EN2=** Enlighted Ready - Relay Installed **EN3=** Enlighted Ready - Labor Only

NOTES:

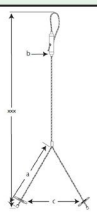
1. 347-480V product is not DLC qualified

SPECIFICATIONS:

ITEM	SPECIFICATION	DETAILS					
		HL-100UW-50	HL-100UN-50	HL-150UW-50	HL-150UN-50	HL-200UW-50	HL-200UN-50
GENERAL PERFORMANCE	Power Consumption (W)	103.9	103.6	149.9	150.3	195.6	197.6
	Lumens Delivered (lm)	13,400	13,600	19,500	19,300	25,000	25,100
	Efficacy (lm/W)	129	132	130	128	128	127
	CRI	≥70					
	Color Temperature (K)	5000K (Additional CCT available, contact MaxLite for info.)					
	L70 Lifetime (hours)	100,000					
	Color Consistency	Proprietary binning for uniform color					
ELECTRICAL	Power Factor	0.99					
	Input Voltage	120-277V (347-480V optional)					
PHYSICAL	Mounting	Chain Standard (See Mounting Accessories Chart for other options)					
	Operating Temperature	-34°C to 50°C (-30°F to 122°F)					
	Humidity	10-85% RH, non-condensing					
QUALIFICATION	Qualification	cULus, DLC 4.1 Premium, FCC, Lighting Facts					
	Material Usage	RoHS compliant; no mercury					
	Environment	Indoor / Damp					
	Warranty	7 year limited warranty (10 year limited warranty available, contact Maxlite for more info.)					

ORDERING*:

MODEL	MODEL NUMBER	INVENTORY	WATTAGE	DISTRIBUTION
101446	HL-100UW-50	Stock	100	Wide
101447	HL-100UN-50	Made to Order		Narrow
101448	HL-150UW-50	Stock	150	Wide
101449	HL-150UN-50	Made to Order		Narrow
101450	HL-200UW-50	Stock	200	Wide
101451	HL-200UN-50	Made to Order		Narrow

ACCESSORIES			
ACCESSORY IMAGE	MODEL NUMBER	ORDER CODE	DESCRIPTION
	HL-WGW-A	101428	14" x 24" High Bay Wire Guard White Finish
	HL-TS-A	101242	High Bay Linear Translucent Lens (2 Required Per Fixture)
	MLCHKLSU15	74138	Cable Kit 15' Loop x Toggle Y 1 Pair
	MLCHKSQ	71119	Cable Kit 20' Loop x Toggle Y 1 Pair
	HL-SMK*	107603	Surface Mount Kit
	HL-MPK*	107604	Monopoint Mount Kit 1.115" Non-Threaded Hole Fits ¾" Pipe

HIGH BAY W/ SURFACE MOUNT KIT:

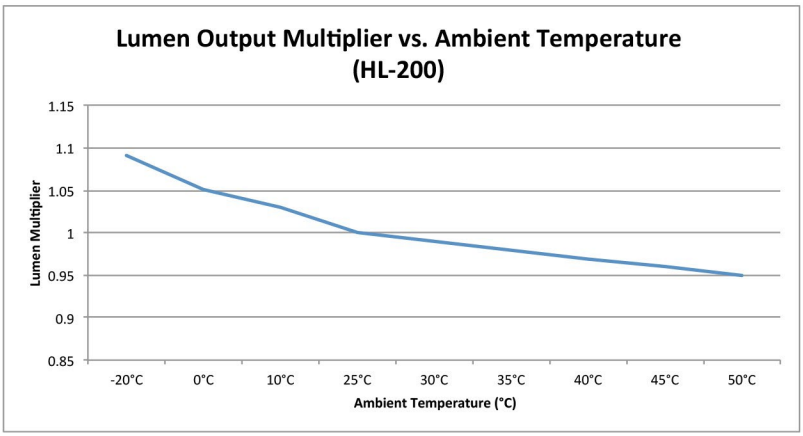
HIGH BAY W/ MONO-POINT:

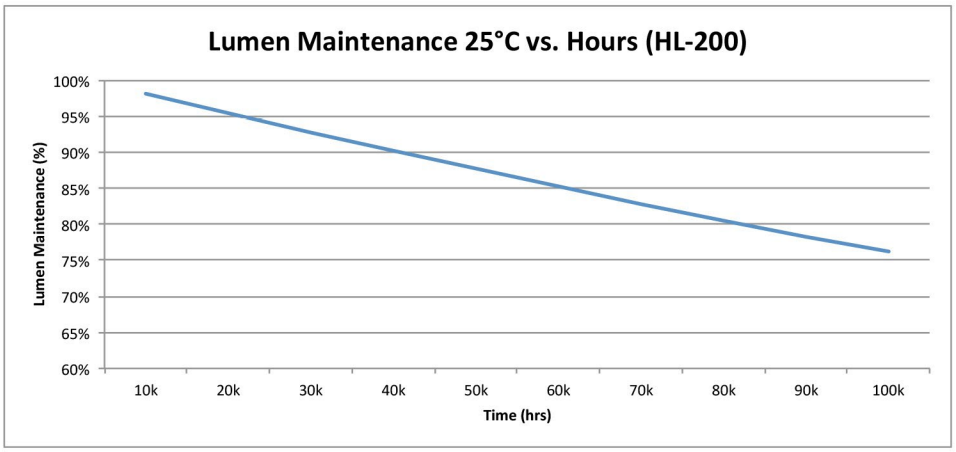
ADDITIONAL PERFORMANCE DATA

ELECTRICAL LOAD:

MODEL	SYSTEM WATTAGE				CURRENT WATTAGE (A)			
	120V	277V	347V	480V	120V	277V	347V	480V
HL-100	104	103	102	102	0.95	0.4	0.35	0.25
HL-150	150	147	147	147	1.4	0.6	0.5	0.35
HL-200	197	188	190	190	1.7	0.8	0.6	0.46

LUMEN MAINTENANCE VS. AMBIENT TEMPERATURE @ 100 KHOURS								
-20°C	0°C	10°C	25°C	30°C	35°C	40°C	45°C	50°C
77.15%	77.15%	77.15%	76.19%	76.49%	76.78%	77.06%	77.34%	77.60%



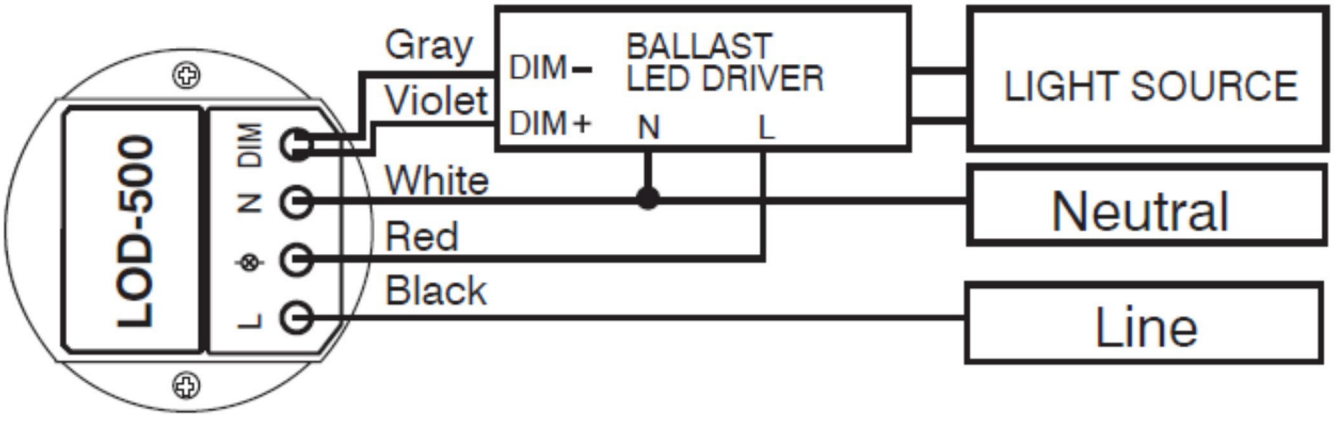


MSV - BI-LEVEL MOTION SENSOR:

SPECIFICATION:

SPECIFICATIONS	MSITXLOD500SPASSY
POWER SUPPLY	100/120/240/277VAC, 50/60Hz
MAX LOAD	800W (VA)
LOW DIM LEVEL	0/5/10/20/25/33/50% SELECTABLE
LOW DIM CONTROL	0-10V
INFRARED SENSOR	Omni-directional quad element pyroelectric
LOAD SWITCHING	ZERO-CROSS AUTOMATIC FREQUENCY SWITCHING
HIC PROTECTION	MAX. 80A FOR 16.7 msec.
DETECTABLE SPEED	0.5-10FT/SEC
MOUNTING HEIGHT	SUBJECT TO TO LENSE TYPE APPLIED
DETECTION RANGE	SUBJECT TO TO LENSE TYPE APPLIED AND HEIGHT
AMBIENT LIGHT LEVEL	L:20~50 lux, M:80~130 lux, H:500~600 lux
DELAY TIME SETTING	1'/3'/5'/10'/15'/20'/30' selectable
TIME-OFF DELAY	10 MIN, TO MODES ONLY
OP HUMIDITY	MAX 95% RH
OP TEMPERATURE	-40°F~158°F
DIMENSIONS	2.36"x H1.45"

WIRING DIAGRAM:



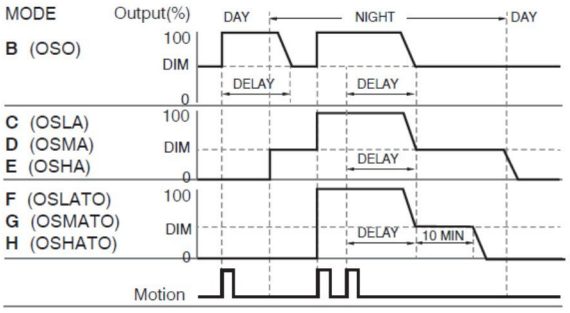
SENSOR CONTROL MODES:

The Bi-Level Motion Sensor features 8 different control modes selectable via rotary DIP switch. Please refer to the following description and select the desired control mode.

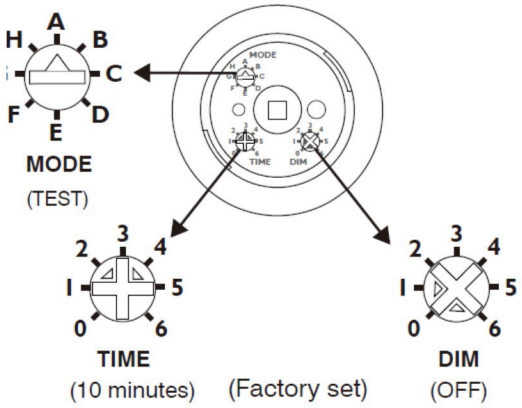
NOTE: Ensure to set the DIP switch at “click” position while setting the control mode.

Mode	Sensor Control Description
A	1. Turn on the light for 5 seconds at every motion detected. 2. Dim the light for 10 seconds and then turn off.
B	1. Ambient light sensor is disabled with this mode. 2. Dim the light to low level as DIM set all time under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy.
C	1. Light off while ambient light is higher than 50 lux. 2. While ambient light is lower than 20 lux, dim the light to low level as DIM set under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy.
D	1. Light off while ambient light is higher than 130 lux. 2. While ambient light is lower than 80 lux, dim the light to low level as DIM set under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy.
E	1. Light off while ambient light is higher than 600 lux. 2. While ambient light is lower than 500 lux, dim the light to low level as DIM set under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy.
F	1. Light off while ambient light is higher than 50 lux. 2. While ambient light is lower than 20 lux, light stays off under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy. When delay time elapse, dim the light to low level as DIM set for 10 minutes as Time Off delay. 4. Turn the light to full-ON per delay TIME set if sensor detects occupancy during Time Off. Turn the light off if no occupancy detected during Time Off delay.
G	1. Light off while ambient light is higher than 130 lux. 2. While ambient light is lower than 80 lux, light stays off under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy. When delay time elapse, dim the light to low level as DIM set for 10 minutes as Time Off delay. 4. Turn the light to full-ON per delay TIME set if sensor detects occupancy during Time Off. Turn the light off if no occupancy detected during Time Off delay.
H	1. Light off while ambient light is higher than 600 lux. 2. While ambient light is lower than 500 lux, light stays off under vacancy. 3. Turn the light to full-ON per delay TIME set under occupancy. When delay time elapse, dim the light to low level as DIM set for 10 minutes as Time Off delay. 4. Turn the light to full-ON per delay TIME set if sensor detects occupancy during Time Off. Turn the light off if no occupancy detected during Time Off delay.

Mode Operation Chart



SENSOR SETTINGS:



POS.	0	1	2	3	4	5	6
TIME	1’	3’	5’	10’	15’	20’	30’
DIM	OFF	5%	10%	20%	25%	33%	50%

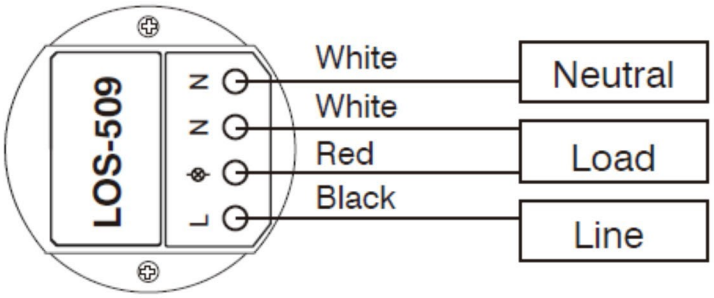
MSO - ON/OFF MOTION SENSOR:

SPECIFICATION:

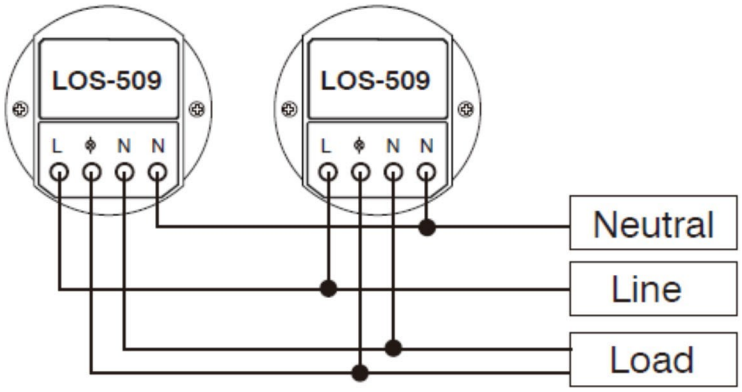
SPECIFICATIONS	MSITXLOS509SFCCNTRL
POWER SUPPLY	120/277VAC, 50/60Hz
MAX LOAD @ -40°F~131°F	800/1200W(VA)@ 120/277V
MAX LOAD @ 131°F~158°F	500/750W(VA)@120/277V
INFRARED SENSOR	Omni-directional quad element pyroelectric
LOAD SWITCHING	ZERO-CROSS HYBRID SWITCHING
HIC PROTECTION	MAX. 80A FOR 16.7 msec.
DETECTABLE SPEED	1-10FT/SEC
MOUNTING HEIGHT	SUBJECT TO TO LENSE TYPE APPLIED
DETECTION RANGE	SUBJECT TO TO LENSE TYPE APPLIED AND HEIGHT
AMBIENT LIGHT LEVEL	7 LEVELS ACCU-SET DIGITAL POTENTIOMETER
DELAY TIME SETTING	10"/1'/3'/5'/10'/20'/30' selectable
OP HUMIDITY	MAX 95% RH
OP TEMPERATURE	-40°F~158°F
DIMENSIONS	2.36"x H1.45"

WIRING DIAGRAM:

A. Single sensor control



B. Multiple sensors control



SENSOR SETTINGS:

Delay Time

The LOS-509 series offers 7 different delay time selection via Accu-Set potentiometers. The light will remain ON if sensor detects occupant's movement before the set delay time expires.

Ambient Light

The LOS-509Sxx offers 7 different ambient light level selection via Accu-Set potentiometers. The sensor will not switch ON the light if the LUX value of ambient light is higher than set level.

SW. POS.	1	2	3	4	5	6	7
TIME	T	1'	3'	5'	10'	20'	30'
LUX*	12	25	50	90	130	220	24H

Factory Set

LOS-509Sxx