

JOB _____ TYPE _____
 NOTES _____ APPROVALS _____

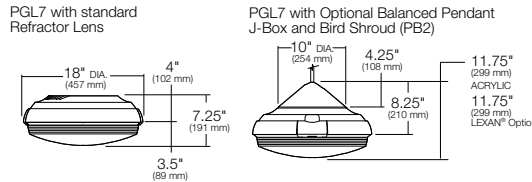
FEATURES

- PicoEmitter technology¹
- The PGL7 offers exceptional uniformity in wide or narrow optics in two distribution patterns
- Multiple control options available for an intelligent parking garage lighting solution
- Motion sensing, photocell, daylight/nighttime harvesting capabilities

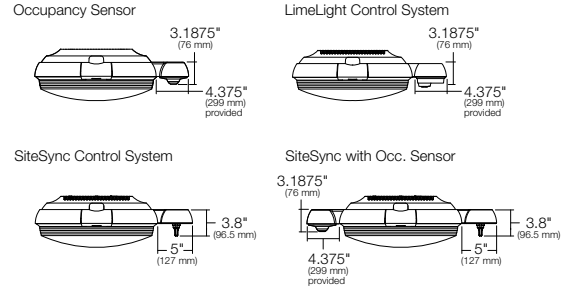
Certifications



SPECIFICATIONS



Approx. Weight = 19 lbs.



ORDERING CODE - example: PGL71W/E3548L4K120/PS/PB2/ESOL/SCP

LED Fixture		Electrical Module				Fixture Finish	Fixture Options	Lens Options
Cat. Nos.	Distribution	Current	Source	Color Temperature	Voltagess	PS Platinum Silver (Standard)	SF 120, 277, 347 Line Volts	Leave Blank for Clear Lens
PGL7	1N Type V Narrow	E35 350mA, 67W	36L 36 LEDs	2K 580nm	120 120V	WH White	DF 208, 240, 480 Line Volts	ESOL Low Glare Acrylic Refractor Lens
	1W Type V Wide	E45 450mA, 85W	48L 48 LEDs	3K 3000K	208 208V	CC Custom Color*	PB2 Balanced Pendant J-Box and Bird Shroud	LS Polycarbonate Refractor Lens
	4N Type III Narrow		60L 60 LEDs	4K 4000K	240 240V		NFO Neighbor Friendly Optic	LLSC-100 LimeLight Group Software & Commissioning, up to 100 Fixtures
	4W Type III Wide			5K 5000K	277 277V			LLSC-1 LimeLight Group Software & Commissioning, for Each Fixture Over the 100 Unit Threshold
					347 347V			
					480 480V			

Smart Control Options		
<u>Occupancy Sensor</u>	<u>Wireless Control Systems</u>	<u>Accessories and Services (Ordered Separately)</u>
SCO ^{1,2} On/Off Control	SWP ^{5,6} SiteSync Wireless Pre-Commission	SWUSB ⁸ SiteSync loaded on USB flash drive (Windows [®] operating system only)
SCP ^{1,3,4} High/Low Control	SWPM ^{1,5,6,7} SiteSync Wireless Pre-Commission w/ Occupancy Sensor	SWTAB ⁸ SiteSync Windows [®] based tablet
	LLCM LimeLight Radio and Occupancy Sensor Module	SWBRG ⁸ SiteSync Wireless Bridge Node
		LLGWT-09 LimeLight Ethernet Gateway Hardware
		LLGWT-04 LimeLight Cellular Gateway Hardware
		LLSC-100 LimeLight Group Software & Commissioning, up to 100 Fixtures
		LLSC-1 LimeLight Group Software & Commissioning, for Each Fixture Over the 100 Unit Threshold

PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only :
 PGL71W/48L4K120/PS/SWP

SiteSync with Motion Control:
 PGL71W/48L4K120/PS/SWPM-8F

¹ Mounting heights above 10ft, contact factory
² For more information, refer to PGL7 Product Specification Sheet at www.kimlighting.com.
³ No light output when no motion detected.
⁴ No light output when no motion detected. User programmable settings of 70, 60, 50, 20% of power. Factory default is 50%. PGL7 driver is a 0-10V dimming interface
⁵ Not available with other control or sensor options.
⁶ Specify group and zone. See SiteSync product page www.hubbelllighting.com/controls/sitesync for more details.
⁷ Specify time delay, dimming level and mounting height.
⁸ When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

Microsoft, Encarta, MSN, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

For Pole Spec Select: http://www.kimlighting.com/products/arms_and_poles/
 For Control Spec Select: <http://trpssl.com/index.html>

Kim Lighting reserves the right to change specifications without notice.

LUMINAIRE PERFORMANCE

Absolute Lumens - Clear Acrylic Refractor Lens															
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	
3000K	36	350	4170	B3-U3-G2	103	4125	B3-U3-G1	101	4020	B2-U3-G3	98	4559	B1-U3-G1	111	41
4200K			4163	B3-U3-G2	101	4119	B3-U3-G1	100	4014	B2-U3-G3	98	4551	B1-U3-G1	111	
5100K			4267	B3-U3-G2	104	4221	B3-U3-G1	103	4114	B2-U3-G3	100	4665	B1-U3-G1	114	
3000K		450	5344	B3-U3-G2	103	5287	B3-U2-G1	101	5152	B1-U3-G3	99	5842	B1-U3-G1	112	52
4200K			5335	B3-U3-G3	103	5278	B3-U2-G1	102	5144	B3-U2-G1	99	5833	B1-U3-G1	112	
5100K			5468	B3-U3-G2	105	5410	B3-U2-G1	104	5272	B3-U2-G1	101	6094	B1-U3-G1	118	

Absolute Lumens - Clear Acrylic Refractor Lens															
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	
3000K	48	350	5313	B3-U3-G2	99	5932	B3-U3-G1	112	5390	B2-U3-G3	102	5747	B2-U3-G2	108	53
4200K			5676	B3-U3-G2	107	6338	B3-U3-G1	120	5758	B2-U3-G3	109	6140	B2-U3-G2	116	
5100K			6159	B3-U3-G2	116	6877	B3-U3-G1	130	6248	B2-U3-G3	118	6663	B2-U3-G2	126	
3000K		450	6431	B3-U3-G2	94	7181	B3-U3-G1	106	6524.3	B2-U3-G3	97	6957	B2-U3-G2	111	68
4200K			6871	B3-U3-G2	102	7673	B3-U3-G1	113	6971	B2-U3-G3	103	7433	B2-U3-G2	110	
5100K			7456	B3-U3-G2	109	8325	B3-U3-G1	123	7564	B2-U3-G3	111	8066	B2-U3-G2	119	

Absolute Lumens - Clear Acrylic Refractor Lens															
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	
3000K	60	350	7081	B3-U3-G3	105	7731	B3-U3-G1	115	7168	B1-U3-G2	107	8117	B2-U3-G2	121	67
4200K			6966	B3-U3-G3	104	7606	B3-U3-G1	114	7051	B2-U3-G2	105	7985	B2-U3-G2	119	
5100K			7517	B3-U3-G3	112	8207	B3-U3-G1	122	7609	B2-U3-G2	114	8616	B2-U3-G2	129	
3000K		450	8095	B3-U3-G3	95	8839	B3-U3-G1	104	8195	B2-U3-G3	96	9280	B2-U3-G2	109	85
4200K			7964	B3-U3-G2	94	8696	B3-U3-G1	102	8062	B2-U3-G3	95	9129	B2-U3-G2	107	
5100K			8594	B3-U3-G3	102	9384	B3-U3-G1	111	8699	B2-U3-G2	103	9851	B2-U3-G2	117	

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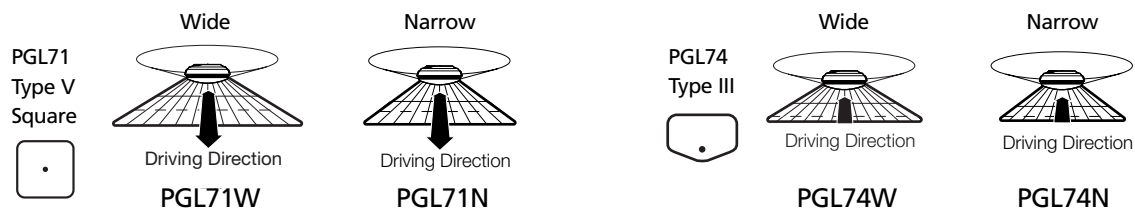
LUMINAIRE PERFORMANCE

Absolute Lumens - ESOL Low Glare Refractor Lens																
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage	
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w		
3000K	36	350	3886	B2-U3-G2	96	4133	B2-U3-G2	101	3980	B1-U3-G3	97	4370	B1-U3-G2	107	41	
4200K			3880	B2-U3-G2	95	4127	B2-U3-G2	101	3974	B1-U3-G3	97	4363	B1-U3-G2	106		
5100K			3976	B2-U3-G2	97	4230	B2-U3-G2	103	4073	B1-U3-G3	99	4471	B1-U3-G2	109		
3000K		450	4811	B2-U3-G3	93	5117	B2-U3-G2	98	4928	B1-U3-G3	95	5410	B1-U3-G2	104		52
4200K			4803	B2-U3-G3	93	5109	B2-U3-G2	98	4920	B1-U3-G3	95	5401	B1-U3-G2	104		
5100K			4923	B2-U3-G3	72	5236	B2-U3-G2	101	5042	B1-U3-G3	97	5536	B1-U3-G2	107		

Absolute Lumens - ESOL Low Glare Refractor Lens															
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	
3000K	48	350	5313	B3-U3-G2	99	5932	B3-U3-G1	112	5390	B2-U3-G3	102	5747	B2-U3-G2	108	53
4200K			5676	B3-U3-G2	107	6338	B3-U3-G1	120	5758	B2-U3-G3	109	6140	B2-U3-G2	116	
5100K			6159	B3-U3-G2	116	6877	B3-U3-G1	130	6248	B2-U3-G3	118	6663	B2-U3-G2	126	
3000K		450	6431	B3-U3-G2	94	7181	B3-U3-G1	106	6524.3	B2-U3-G3	97	6957	B2-U3-G2	111	68
4200K			6871	B3-U3-G2	102	7673	B3-U3-G1	113	6971	B2-U3-G3	103	7433	B2-U3-G2	110	
5100K			7456	B3-U3-G2	109	8325	B3-U3-G1	123	7564	B2-U3-G3	111	8066	B2-U3-G2	119	

Absolute Lumens - ESOL Low Glare Refractor Lens															
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	
3000K	60	350	6352	B3-U3-G3	95	6825	B3-U3-G2	102	6556	B2-U3-G3	98	7212	B1-U3-G2	108	67
4200K			6287	B3-U3-G3	93	6755	B3-U3-G2	101	6489	B2-U3-G3	97	7138	B1-U3-G2	107	
5100K			6675	B3-U3-G3	101	7172	B3-U3-G2	107	6890	B2-U3-G3	103	7579	B1-U3-G2	113	
3000K		450	7789	B3-U3-G3	92	8369	B3-U3-G3	98	8040	B2-U3-G3	95	8844	B2-U3-G3	104	85
4200K			7710	B3-U3-G3	91	8284	B3-U3-G3	97	7958	B2-U3-G3	94	8754	B2-U3-G3	103	
5100K			8363	B3-U3-G3	99	8986	B3-U3-G3	106	8632	B2-U3-G4	103	9496	B2-U3-G3	112	

Optical distributions: Wide = 70° Peak Intensity Angle Narrow = 57.5° Peak Intensity Angle



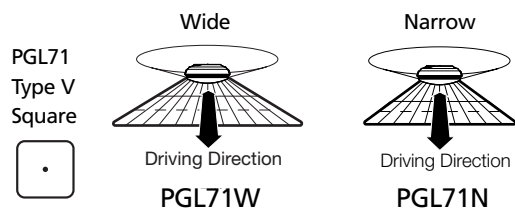
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LUMINAIRE PERFORMANCE

Absolute Lumens - LSOL Semi-Diffused Polycarbonate Lens																
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage	
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w		
3000K	36	350	2825	B1-U3-G1	70	3032	B1-U3-G1	74	2844	B1-U3-G2	69	3154	B1-U3-G1	77	41	
4200K			2820	B1-U3-G1	69	3027	B1-U3-G1	74	2840	B1-U3-G2	69	3149	B1-U3-G1	77		
5100K			2890	B1-U3-G1	70	3102	B1-U3-G1	76	2911	B1-U3-G2	71	3228	B1-U3-G1	79		
3000K		450	3556	B2-U3-G2	68	3817	B1-U3-G1	73	3581	B1-U3-G2	69	3971	B1-U3-G1	76		52
4200K			3550	B2-U3-G2	68	3810	B1-U3-G1	73	3575	B1-U3-G2	69	3965	B1-U3-G1	76		
5100K			3639	B2-U3-G2	70	3905	B1-U3-G1	75	3664	B1-U3-G2	70	4063	B1-U3-G1	78		

Absolute Lumens - LSOL Semi-Diffused Polycarbonate Lens																
Temp.	Number of LEDs	Driver Current (mA)	PGL71W			PGL71N			PGL74W			PGL74N			Average System Wattage	
			Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w	Lumen	B.U.G.	lm/w		
3000K	48	350	3623	B2-U3-G2	68	3963	B2-U3-G2	75	3745	B1-U3-G2	71	4156	B1-U3-G2	78	53	
4200K			3871	B2-U3-G2	73	4235	B2-U3-G2	80	4001	B1-U3-G2	75	4441	B1-U3-G2	84		
5100K			4200	B2-U3-G2	79	4595	B2-U3-G2	87	4341	B1-U3-G2	82	4818	B1-U3-G2	91		
3000K		450	4539	B2-U3-G2	67	4965	B2-U3-G2	73	4691	B1-U3-G2	69	5207	B1-U3-G2	77		68
4200K			4850	B2-U3-G2	71	5305	B2-U3-G2	78	5012	B1-U3-G2	74	5563	B1-U3-G2	82		
5100K			5262	B2-U3-G2	77	5756	B2-U3-G2	85	5439	B1-U3-G2	80	6036	B1-U3-G2	89		

Optical distributions: Wide = 70° Peak Intensity Angle Narrow = 57.5° Peak Intensity Angle



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SPECIFICATIONS

Electrical Housing:

- Die-cast, low copper (<0.6% Cu) aluminum alloy for direct mounting to the Kim Speed Mount. Wire entries are sealed by a silicone grommet.

Refractor:

- Standard refractor is one-piece injection molded acrylic, .125" minimum wall thickness. The prisms around the perimeter refract the spill light off each PicoEmitter™ upward to eliminate the cave effect. Refractor attaches to electrical housing with (2) load bearing retainers. Perimeter is fully sealed with a one-piece extruded silicone gasket, with the ends fused together to form a continuous piece, sealing the refractor to the electrical housing, and providing an IP66 fixture rating.

EmitterDeck® :

- Precision injection molded optics are positioned to achieve directional control toward desired task. The entire assembly fastens to the housing as a one-piece module.

Electronic Module:

- All electrical components are UL recognized and mounted directly to the electrical housing for maximum heat dissipation. Module includes a driver, thermal control device and surge protector. Driver is rated for -40°C operation. A step-down transformer within the housing may be used for 347V and 480V systems. All luminaires include an internal fuse.

Neighbor Friendly Optic

- Optional integrated Neighbor Friendly Optic on each LED module to completely control unwanted backlight.

Lens Options

- ESOL Lens, the high performance low glare acrylic refractor lens provides optimal uniformity, spacing and visual comfort.
- Injection molded UV stabilized polycarbonate has the same prism design as the standard acrylic. The polycarbonate refractor lens decreases the luminaire efficiency, and has a different index of refraction than the acrylic material, as a result, moderately altering beam angles and candela.
- The semi-diffused polycarbonate refractor lens is a one-piece injection molded lens, .125" minimum wall thickness. The lens option

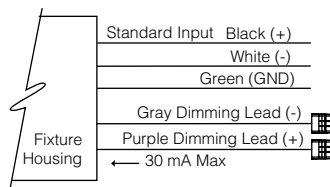
softens the light output and reduces glare from direct views of the optical system. The semi-diffused lens decreases the luminaire efficiency, and has a different index of refraction than the standard, clear acrylic or clear polycarbonate. As a result, moderately altering beam angles and candela.

Electrical Characteristics:

- 120V through 480V @ 50/60Hz.
- Class 1, 350mA / 450mA.
- Power Factor = >.90
- National Electrical Code, ANSI/NFPA 70.
- 10kV surge suppression.
- Thermalshield thermal control.
- -40c starting driver.
- 0-10V dimming interface.
- All electronic components are IP66 rated.
- Electronic components are UL and/or CSA recognized.

Dimming:

- 10% to 100% dimming by the use of standard 0-10V interface driver.
- To activate the dimming system, a wiring harness is supplied and attached to the DIM Port (DIM IN) on the thermal shield protection system. This port allows the 0-10V Interface to bypass the thermal shield and control the driver.
- The thermal shield works in conjunction with the control system to assure that overheating will not harm the LEDs.
- The wiring harness is connected with the use of the Purple lead as the positive (+) and the Grey lead as the negative (-) to an available control signal (by others).



Speed Mount:

- Electro-zinc plated steel for mounting to standard 4" junction box or mud-box. Fixture hangs from hooks to free both hands to make field wire connections. Allows tool-free fixture mounting to junction box, with integral anti-theft lock.

Balanced Pendant J-Box and Bird Shroud

- Die-cast aluminum. Offset .75" NPT pendant entry to balance fixture in free-swinging installation. Conduit pipe provided by others. The Kim Speed Mount is furnished for fixture attachment to the PB2. This option is shipped separate from fixture.

Finish:

- Fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat.
- Platinum Silver is Powdura® TGIC powder coat paint. White and all custom colors are TGIC powder coat paint.

Fusing:

SF for 120, 277 and 347 Line Volts
DF for 208, 240 and 480 Line Volts.

- High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Certifications and Listings:

- UL 1598 Standard for wet locations for Luminaires.
- UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products.
- CSA C22.2#250.0 Luminaires.

CAUTION:

- Fixtures must be grounded in accordance with national, state and/or local electrical codes, Failure to do so may result in serious personal injury.

WARRANTY:

- For full warranty see <http://www.hubbellighting.com/resources/warranty>

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CONTROLS

Occupancy Sensors

Smart Control

The occupancy sensor device and aluminum enclosure is factory installed onto the electrical housing.

SCO (On/Off control) - No light output when no motion detected.

SCP (High/Low Control) – User programmable settings of 70, 60, 50, 20% of power. Factory default is 50%. PGL7 driver is a 0-10V dimming interface.

SiteSync™¹

SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit www.hubbellighting.com/products/sitesync for more details.

Limelight™ Parking Garage Control System

Limelight™ Radio and Occupancy Sensor Module

Specification: 120-277 VAC, RF ZigBee transceiver, and PIR sensor. Mounted to a cast aluminum bowl on the outside of the Parking Garage Luminaire to assure temperature sensitivity of electronic components is within specification.

Limelight™ Ethernet Gateway Hardware

High density RF Mesh coordinator, software proprietor, manifest holder of fixture ID's groupings and events. Tamper proof, NEMA 5-15 3 prong SJEOOW power cord, water tight Ethernet connections. Highly protected, long life AC/DC power supply. Single board, ARM compliant 520Mhz Intel computer, ZigBEE OEM RF coordinator.

Limelight™ Cellular Gateway Hardware

Limelight Cellular Gateway Hardware. High density RF Mesh coordinator, software proprietor, manifest holder of fixture ID's groupings and events. Tamper proof, NEMA 5-15 3 prong SJEOOW power cord. Highly protected, long life AC/DC power supply. Single board, ARM compliant 520Mhz Intel computer, ZigBEE OEM RF coordinator.

Group Software and Commissioning

Limelight's exclusive system WEB software and Cloud Hosting Service. Graphic user interface includes facility layout and luminaire locations for remote diagnostic testing and customer/engineering interface on control plan. Commissioning includes the development of the initial lighting groups and event planning as well as the calibration of light harvesting schedules. A final commissioning report and user guide shall be provided. On-Site Commissioning Services provided for full functional prove-out of the enabled luminaires, mapping of all luminaires to custom graphic interface, occupancy sensor performance verification, and visual calibration of light harvesting events. Owner/Operator orientation and training with user guide. The first year of annual support is provided which includes 24/7 WEB access to Limelight tools www.limelighttools.com, cloud hosting, technical support, maintenance software updates, email alert notifications, and annual management reporting. Future annual support provided by Limelight under an annual fee contract.

¹PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples:

SiteSync only : ALT3/P70/60L/3KUV/PS/US/SWP

SiteSync with Motion Control: ALT3/P70/60L/3KUV/PS/US/SWPM-20F

MOB ORDERING INFORMATION: When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

ALT3/P70/60L/3KUV/PS/US/MOB - 1 to 30 min - 33% or 50% - ?? / DBT
 High to Dim Delay Low Level Mounting Height (ft.)

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