LITHONIA LIGHTING®

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal one-for-one replacement of traditional HID and fluorescent lighting. For use in Industrial applications including warehousing, retail spaces, and manufacturing environments with mounting heights ranging from 10' +. **Certain airborne contaminants can diminish integrity of acrylic and LED's.** Click here for Polycarbonate Environmental Compatibility table for suitable uses.
Certain airborne contaminants, including condensation, may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

CONSTRUCTION — RNGD features patented micro-prism optics that deliver uniform and comfortable illumination across the entire space. The polycarbonate lens is IK10 impact rated, providing protection from flying objects without the need for a wireguard. The Renegade fixtures are available with 3500K/4000K/5000K switchable CCTs and lumen output up to 60,000 lumens. The Renegade also features switchable distributions allowing field selectable narrow, medium, and wide distributions. As a standard feature, fixture has sensor receptacle with cover to allow for field installable sensor.

Finish: All CRS (cold rolled steel) and aluminum parts are finished with electrostatically deposited, thermally set,polyester powder paint after fabrication.

ELECTRICAL — High-efficiency LEDs provide up to 187 LPW. Thermally protected driver standard with 0-10V continuous dimming allowing for 10% to 100% dimming capability. Projected lumen maintenance L70 > 100,000 hours. Luminaire surge protection level: designed to withstand up to 6kV/3kA per ANSI C82.77-5-2015.

INSTALLATION — Fixture maybe suspended with chain accessory (included).

LISTINGS — UL/C-UL listed to US and Canadian safety standards and NSF Splash Zone 2 rated. Damp location listed standard, IP65 rated optional. Designed for use in ambient temperatures ranging from –40°C to 55°C when suspended 18" from ceiling.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
The product images shown are for illustration purposes only and may not be an exact representation of the product.
Specifications subject to change without notice.

Renegade Switchable LED High Bay

RNGD

15,000LM through 60,000LM

WET LOCATION™ DAMP LOCATION™ C SP US DIMMABLE LED

Looking for Contractor Select readily available configurations? Click here to visit Contractor Select™ spec sheet or go to www.contractorselect.com

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: RNGD SZ2 UVOLT SWW3 UPL SSE APIRH DWH

Series		Fixture Size		Voltage		Color Temperature	
RNGD	Renegade Linear High Bay	SZ1	Size 1 (15,000LM, 18,000LM, 24,000LM)	UVOLT	120-347V	SWW3	3500K, 4000K, 5000K ‡
		SZ2	Size 2 (24,000LM, 30,000LM, 36,000LM)	120U	120V, utilizing UVOLT driver	SWW9	4000K, 5000K ‡
		SZ3	Size 3 (36,000LM, 48,000LM, 60,000LM)	208U	208V, utilizing UVOLT driver		
				240U	240V, utilizing UVOLT driver		
				277U	277V, utilizing UVOLT driver		
				347U	347V, utilizing UVOLT driver		

Options

Cord Sets:

CNPW	6' white cord, no plug
CPSBW	6' white damp location cord with straight blade plug ‡
CPTLW	6' white damp location cord with 15 amp twist-lock plug (voltage will match fixture) ‡
CPTL20AW	6' white damp location cord with 20 amp twist lock plug (voltage will match fixture) ‡

Reloc:

OCS	RELOC® OnePass selectable cable 6' installed ‡
RRL_	RELOC® -Ready luminaire. See page X for ordering information. ‡

Other options:

L/DIM	Less dimming leads ‡
SCK120	Safety Chain Kit 120IN ‡
SCK240	Safety Chain Kit 240IN ‡
UPL	Uplight
DL	Damp location
DRYLBL	Dry location label (required with RELOC)
IP65	IP65 rated.

Nlight AIR Wireless Controls:

NLTAIR2 APIR	Embedded wireless controls by nLight, Passive Infrared Occ sensor with auto-dimming photocell for low mounting height applications
NLTAIR2 APIRH	Embedded wireless controls by nLight, Passive Infrared Occ sensor with auto-dimming photocell for high mounting height applications
NLTAIR2 APIRA	Embedded wireless controls by nLight, with UL924 listed emergency operation, Passive Infrared Occ sensor with auto-dimming photocell for aisle applications
NLTAIREM2 APIR	Embedded wireless controls by nLight, with UL924 listed emergency operation, Passive Infrared Occ sensor with auto-dimming photocell for low mounting height applications
NLTAIREM2 APIRH	Embedded wireless controls by nLight, with UL924 listed emergency operation, Passive Infrared Occ sensor with auto-dimming photocell for high mounting height applications
NLTAIREM2 APIRA	Embedded wireless controls by nLight, with UL924 listed emergency operation, Passive Infrared Occ sensor with auto-dimming photocell for aisle applications

Finish

DWH	Gloss White

Accessories: *Order as separate catalog number.*

RNGDPMP	Renegade IP Fixture Pendant Mount Kit
WGRNGDSM	Renegade Size 1 Wireguard Kit
WGRNGDMD	Renegade Size 2 Wireguard Kit
WGRNGDLG	Renegade Size 3 Wireguard Kit
JCBLSC120	10' Safety Cable
JCBLSC240	20' Safety Cable
LBAY BLDE40WCP	Field Installable 40 watt emergency battery pack

‡ Option Value Ordering Restrictions

Option Value	Ordering Restrictions
CPSBW	Not for use with LBAY BLDE40WCP. Available 120V only. If longer length is desired add to end of nomenclature. Example CPSBW10FT for 10' length. Not available with IP65.
CPTL20AW	Not for use with LBAY BLDE40WCP. Required with 347U. If longer length is desired add to end of nomenclature. Example CPSBW10FT for 10' length. Not available with IP65.
CPTLW	Not for use with LBAY BLDE40WCP. If longer length is desired add to end of nomenclature. Example CPSBW10FT for 10' length. Not available with IP65.
IP65	Not available with cordsets or Reloc options.
L/DIM	Available with IP65 only.
OCS	Fixture will be labeld dry location. Not NSF rated. If longer length is desired add length to end of nomenclature. Example: OCS10 for 10'.
RRL	Fixture will be labeld dry location. Not NSF rated. Not available with a cordset or IP65 option.
SCK120, SCK240	Safety chain include in carton with fixture but not attached to fixture.
SWW3	Not available with SZ3
SWW9	Not available with SZ1 and SZ2

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CORD SET ORDERING INFORMATION ‡

Plug Option		Plug type		Amperage**		Gauge		# of conductors		Color		Location		Length*****	
CNP	Cord Only	(blank)	No Plug Option (for Cord Only option)	(blank)	15 amps	(blank)	18 gauge standard	(blank)	3 conductors (blk/wht/grn)	W	White	(blank)	Damp Location	(blank)	6 feet
CP	Cord with Plug	TL	Locking Type	20A	20 amps***			4C****	4 conductors; Use with Battery option when unswitched hot is needed					3FT	3 feet
		SB	Straight blade*					5CD****	5 conductors; Use with dimming driver when dimming leads are desired (Not for use with dimming sensors)					10FT	10 feet
														12FT	12 feet
														15FT	15 feet
														20FT	20 feet

* Straight blade on available with 120, 208, 240, and 277 volt.
** Amperage is only configurable for cords with plugs.
*** 20A required with 347 and 480 volt.
**** Not available with plugs.
***** Available in 1' increments from 1 to 30 feet.

NEMA PLUG CONFIGURATION

Voltage	Straight blade	Twist-lock 15 amp plug	Twist-lock 20 amp plug
120	5-15P	L5-15P	L5-20P
208/240	6-15P	L6-15P	L6-20P
277	7-15P	L7-15P	L7-20P
347	X	X	L24-20P
480	X	X	L8-20P

EMBEDDED LUMINAIRE TECHNOLOGY GUIDE

Control type	Sensor nomenclature	Sensor used (click part number to link to sensor spec sheet)		Out of the box settings					Notes
				Unoccupied time until dim/off	Dim to off time delay	Occupied dim level	Unoccupied dim level	Daylighting set point	
Sensor Switch embedded controls	SSE APIRH	TLS		10M	n/a	10V/100%	n/a	n/a	
	SSE PIRHKO	LSXR 6		10M	n/a	10V/100%	n/a	n/a	
	SSE PIRKO	LSXR 10		10M	n/a	10V/100%	n/a	n/a	
	SSE PIRAKO	LSXR 50		10M	n/a	10V/100%	n/a	n/a	
	SSE PIRHKO HL	LSXR 6 HL		10M	2.5M	10V/100%	1V/10%	n/a	
	SSE PIRKO HL	LSXR 10 HL		10M	2.5M	10V/100%	1V/10%	n/a	
	SSE PIRAKO HL	LSXR 50 HL		10M	2.5M	10V/100%	1V/10%	n/a	
	SSE PIRHKO P	LSXR 6 P		10M	n/a	10V/100%	n/a	4FC	
	SSE PIRKO P	LSXR 10 P		10M	n/a	10V/100%	n/a	4FC	
	SSE PIRAKO P	LSXR 50 P		10M	n/a	10V/100%	n/a	4FC	
	SSE APIRHKO	LSXR 6 ADC		10M	n/a	10V/100%	n/a	4FC	Photocell dimming and switching. Occupancy dimming and switching based on low trim.
	SSE APIRKO	LSXR 10 ADC		10M	n/a	10V/100%	n/a	4FC	Photocell dimming and switching. Occupancy dimming and switching based on low trim.
	SSE APIRAKO	LSXR 50 ADC		10M	n/a	10V/100%	n/a	4FC	Photocell dimming and switching. Occupancy dimming and switching based on low trim.
	SSE APIRHKO ANL	LSXR 6 ANL		10M	n/a	10V/100%	1V/10%	4FC	Photocell dimming and switching. Occupancy dimming and switching based on low trim.
	SSE APIRKO ANL	LSXR 10 ANL		10M	n/a	10V/100%	1V/10%	4FC	Photocell dimming and switching. Occupancy dimming and switching based on low trim.
	SSE APIRAKO ANL	LSXR 50 ANL		10M	n/a	10V/100%	1V/10%	4FC	Photocell dimming and switching. Occupancy dimming and switching based on low trim.
nLight AIR2 embedded controls	NLTAIR2 APIRH	RMSOD 45 180D G2		7.5M	5M	10V/100%	3V/30%	5FC	
	NLTAIREM2 APIRH	RMSOD 45 EM 180D G2		7.5M	5M	10V/100%	3V/30%	5FC	EM devices remain at full output and are uncontrollable until they are associated with an Emergency Devices behavior zone.
	NLTAIR2 APIRKO	RLSXR 10 WH G2		7.5M	2.5M	10V/100%	1V/10%	50FC	
	NLTAIR2 APIRHKO	RLSXR 6 WH G2		7.5M	2.5M	10V/100%	1V/10%	50FC	
	NLTAIR2 APIRAKO	RLSXR 50 WH G2		7.5M	2.5M	10V/100%	1V/10%	50FC	
	NLTAIREM2 APIRKO	RLSXR 10 EM WH G2		7.5M	2.5M	10V/100%	1V/10%	50FC	EM devices remain at full output and are uncontrollable until they are associated with an Emergency Devices behavior zone.
	NLTAIREM2 APIRHKO	RLSXR 6 EM WH G2		7.5M	2.5M	10V/100%	1V/10%	50FC	EM devices remain at full output and are uncontrollable until they are associated with an Emergency Devices behavior zone.
	NLTAIREM2 APIRAKO	RLSXR 50 EM WH G2		7.5M	2.5M	10V/100%	1V/10%	50FC	EM devices remain at full output and are uncontrollable until they are associated with an Emergency Devices behavior zone.
	NLTAIRER2 APIRKO	RLSXR 10 WH G2	ETS DR	7.5M	2.5M	10V/100%	1V/10%	50FC	
	NLTAIRER2 APIRHKO	RLSXR 6 WH G2	ETS DR	7.5M	2.5M	10V/100%	1V/10%	50FC	
	NLTAIRER2 APIRAKO	RLSXR 50 WH G2	ETS DR	7.5M	2.5M	10V/100%	1V/10%	50FC	
	NLTAIR2	RIO ZT 90 G2		n/a	n/a	80%	n/a	n/a	
	NLTAIR2 KO	RPP20 D EFP G2		n/a	n/a	100%	n/a	n/a	
	NLTAIREM2 KO	RPP20 D EM EFP G2		n/a	n/a	100%	n/a	n/a	
	NLTAIRER2 KO	RPP20 D ER EFP G2	ETS DR	n/a	n/a	100%	n/a	n/a	

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PHOTOMETRICS

See www.lithonia.com.

PERFORMANCE TABLE

Spec	CCT	Lumens at Max Setting	Watts
RNGD SZ1	3500K	23004	144
	4000K	23321	144
	5000K	22919	144
RNGD SZ1 UPL	3500K	24370	150
	4000K	24721	150
	5000K	24291	150
RNGD SZ2	3500K	35066	214
	4000K	35684	214
	5000K	34898	214
RNGD SZ2 UPL	3500K	37582	225
	4000K	38209	225
	5000K	37396	225
RNGD SZ3	4000K	55816	355
	5000K	54875	355
RNGD SZ3 UPL	4000K	60778	375
	5000K	58673	375

SCALING FACTOR TABLES

Multipliers	
ND	1.037
WD	1.004
WGX	0.95

PROJECTED LUMEN MAINTENANCE

Operating hours	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000
Lumen maintenance factor	0.98	0.96	0.93	0.91	0.89	0.87	0.85	0.83	0.81	0.79

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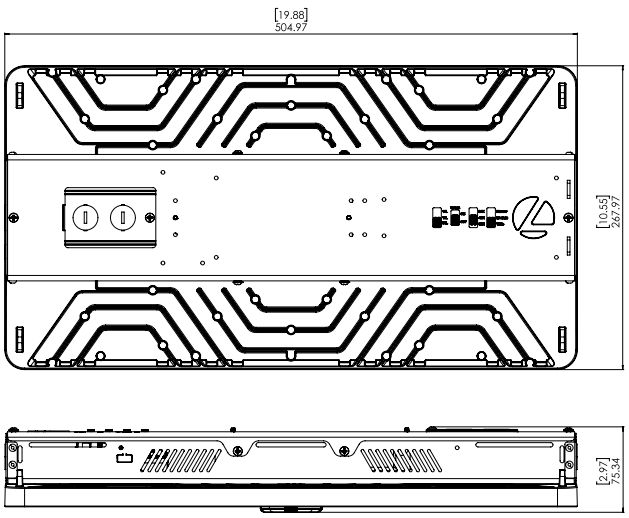
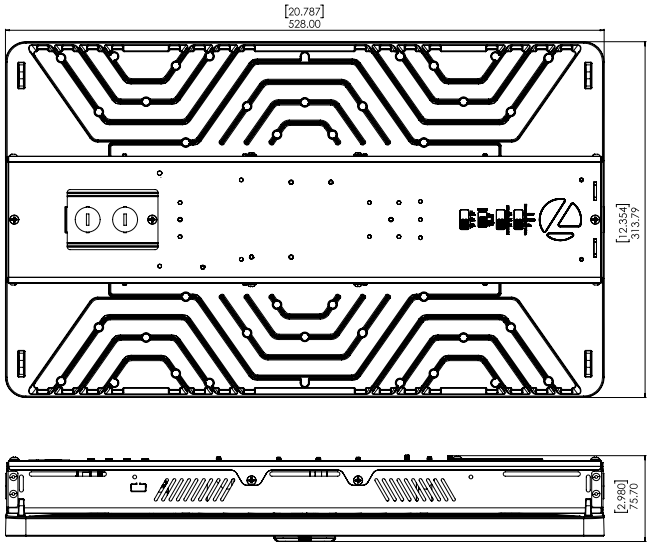
DIMENSIONS

SZ1



SZ2



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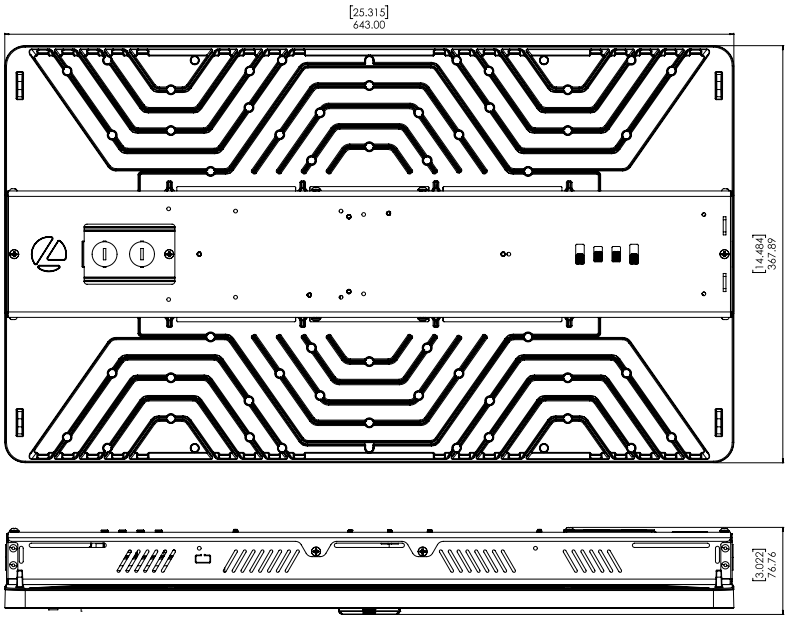
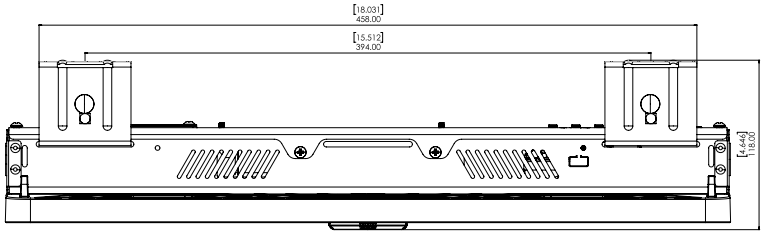


SURFACE MOUNT BRACKET



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STANDARD SENSOR

		Standard Sensor or Control Device (commonly used with Battery Pack Option)	EM Solution (Used when switching single incoming hot to generator power)	ER Solution (Used when switching to generator power via a 2nd hot lead)
Emergency Operation Scenarios	**Emergency Lighting Strategy**	*Luminaire-integral battery pack and emergency driver *Generator transfer device	*Diesel genset emergency backup supply *Slow transfer inverter (>30ms) emergency backup supply	*Fast Transfer (FT) inverter emergency backup supply *Uninterruptible Power System (UPS) emergency
	Recommended Control Device Option	*Not specifically listed for emergency use. *Wired such that a separately listed emergency device provides emergency lighting power and/or control during loss of normal power scenarios.	*UL 924 listed *EM devices will remain at their high-end trim and ignore wireless lighting control commands, such as in the event of a normal power failure, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds. * Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts. *Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.	*UL 924 listed *Utilizes dedicated Normal Power sensing leads to initiate lighting control override during loss of normal power scenarios. *Requires connections to both emergency and normal power circuits.

	Function	Sequence of Operations	Standard Sensor or Control Device	EM Solution (Generator / Inverter powered with 1 hot)	ER Solution (Generator / Inverter on separate emergency circuit – 2 hots)	CPHB Standard Sensor Settings				
						Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim	Photocell Set Point
Standalone Sensors (Individual control per fixture)	On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	**PIRHKO**	-	PIRHKO ER	10 min	-	-	-	-
	High/Low (Off)	Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off" Time Delay. For High/Low (Never Off) function, bypass the relay by bringing power directly into driver rather than wiring hot through LSXR device.	**PIRHKO HL**	-	PIRHKO HL ER	10 min	2.5 min	100%	10% (Driver Low)"	-
	Photocell	Lights turn on unless ambient light level is above set point; If ambient light levels in the space exceed the photocell set point, lights will turn off even during occupancy.	**PIRHKO P**	-	PIRHKO P ER	-	-	-	-	4 fc
	Dimming + Photocell	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, the lights dim to low trim , then turn off after timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light.	**APIRHKO**	-	APIRHKO ER	10 min	n/a	100%	-	4 fc
	Dimming + Photocell + High/Low	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, lights dim to low trim after timeout and remain at low trim until presence is detected; Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient.	**APIRHKO ANL**	-	APIRHKO ANL ER	10 min	-	100%	10%	4 fc
	Note: For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex. LSXR10 P. For High Aisle Mount sensors, replace "6" with "50".									

nLight AIR Wireless Sensors	Dimming + Photocell + Occupancy	Wirelessly programmable network sensor – On/Off control with dimming, occupancy detection, and daylight harvesting (Sensor embedded in fixture)	**NLTAIR2 APIRH**	NLTAIREM2 APIRHKO	NLTAIRER2 APIRHKO	7.5 min	-	100%	30%	50 fc
	Dimming	Wirelessly programmable On/Off control with dimming – no sensor (Device embedded in fixture)	**NLTAIR2**	NLTAIREM2	NLTAIRER2	-	-	100%	10% (driver low)	-
	Note: For 360° integral Low Mount sensors, replace "45" in nomenclature with "7". EM sensors/controls are KO-mounted; all others integral. RPP20 D EM de-rates fixture to Damp Location.									

***All ER solutions include standard sensor or control device with a factory-installed Iota ETS##-DR (UL924 bypass device). This device is integral to the fixture and will include a hot and neutral lead for the dedicated emergency circuit. MVOLT , 120-277 only. ER solutions are not available with the IMP option.**

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RRL – RELOC®-Ready Luminaire

- RRL connectors to be used with the OnePass system.
- Load side of connector factory installed to luminaire.
- 4-pole mating connector with push-in terminations allows for simple installation.
- Touch-safe design on both halves meets UL/CSA requirement.
- Wiping contact design allows safe disconnect under load.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: RRLA

Series		Wiring instructions	
RRL	RELOC®-ready luminaire	A	Hot conductor wired to position #1 (phase A); non-dimming
		B	Hot conductor wired to position #2 (phase B); non-dimming
		AE	Hot conductor wired to position #1 (phase A), hot conductor #2 wired to position #2 (phase B); non-dimming [1]
		C12S	Hot conductor in position #1 (phase A), low voltage conductor #1 in position #2,low voltage conductor #2 in position #3; dimming [2]

Compatible RELOC® Cables for Industrial Luminaires (ordered and shipped separately)

(click to view RELOC product page for more information)

OCS

OCU

OD

Notes

1 AE commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode. Requires fixture to have battery option.

2 C12S option is used with the OnePass for 0-10V/DALI applications. Not for use with dimming sensors.

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