April 10, 2020

MIDDLETON ASSOCIATES INCORPORATED
1702 W. COLLEGE AVE., SUITE E
NORMAL, IL 61761-2793
309/452-1271 FAX 309/454-8049

ADDENDUM NUMBER 2
TO THE DRAWINGS AND SPECIFICATIONS

PROJECT: McLean County Unit District No. 5 Glenn Elementary School Teacher Workroom
             Remodel and Addition

FOR: McLean Co. Unit District No. 5
             1809 W. Hovey Ave.
             Normal, IL 61761

A/E PROJECT NO: 24422319

ISSUE DATE: March 23, 2020

BID OPENING: Thursday, April 16, 2020, 1:30 p.m. prevailing time
                  Maintenance Office, 1999 Eagle Road, Normal, IL 61761
                  Bids can also be submitted electronically as described in Item #7

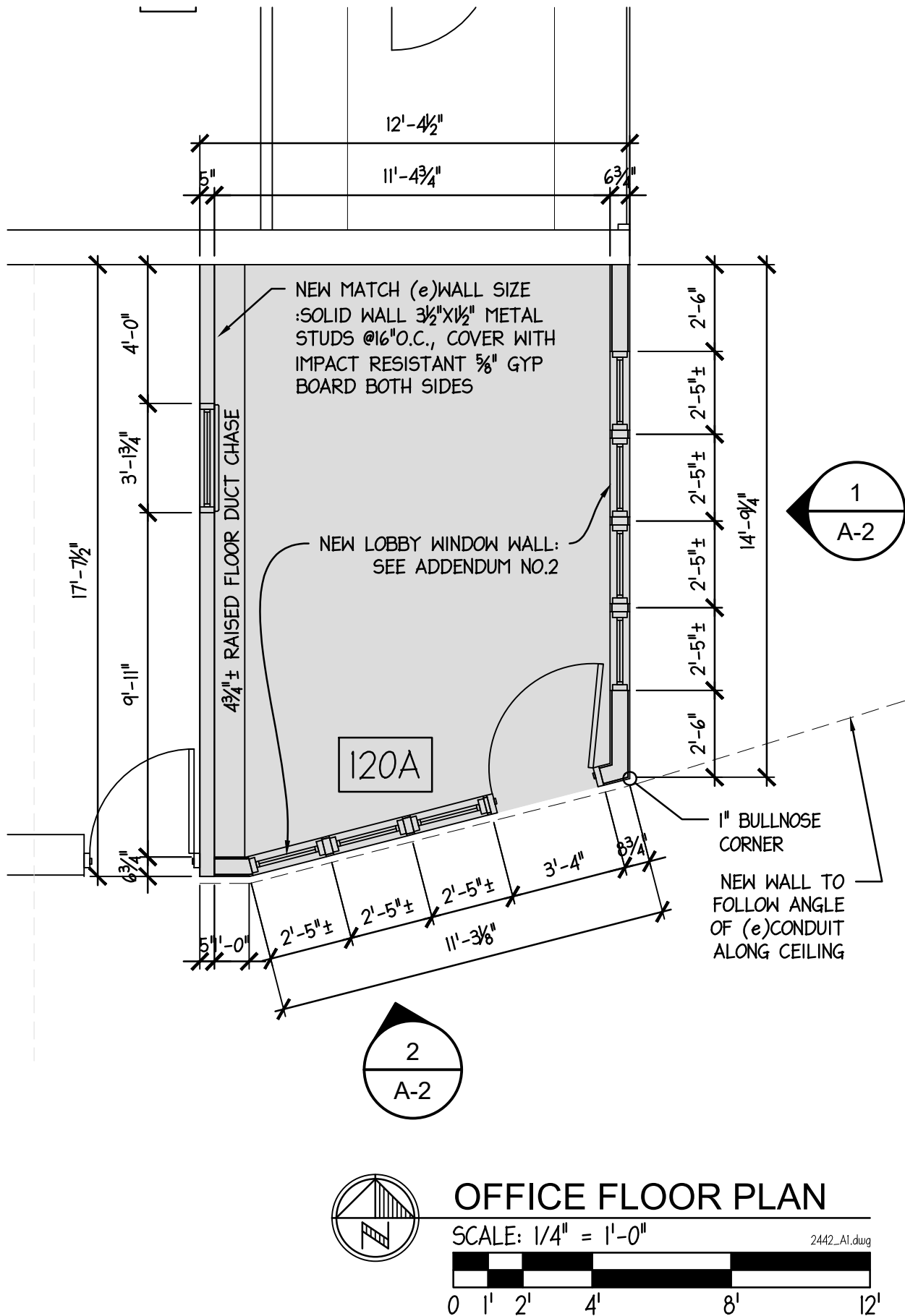THIS ADDENDUM DOES NOT CHANGE THE BID DATE OR BID TIME.

Upon receipt of this ADDENDUM, insert same into the documents, which were issued to you. Hereafter, said ADDENDUM shall be as much a part of the said documents as though originally set forth therein. THIS ADDENDUM DOES NOT CHANGE THE BID DATE.

5. TO THE SPECIFICATIONS, Section 00040, Instructions for Bidders, Paragraph 1.21: Delete reference to "allowance of $14,000" and substitute "allowance of $19,000."

6. TO THE DRAWINGS, Sheet MEP-1, SHEET NOTES: The new exhaust fan is 100CFW. This is to be powered from (e) panel "C." Provide new 15 amp breaker in Panel C. The existing fan in Room 117.1 is ducted to a roof fan which also provides exhaust for Room 121 and 122 and this exhaust fan will remain and run independently of the new unit. The wiring indicated on the Electrical Plan needs to be changed as described above.

7. TO THE SPECIFICATIONS Section 00040 Paragraph 1.6.A & B, Section 00300 Proposed Form Submit with Live Signature Page 2 and Page 3: This will establish that the bids may be sent electronically prior to Thursday, April 30, 2020, 1:30 pm prevailing time to Joe Adelman, Director of Operations, adelmanj@myunit5.org using a scanned Proposal Form Submitted with Live Signature Pages 2 and 3. Include a copy of the Bid Form showing the 5% Bid Bond and Signature. Include Specification Section 00307-1 Product Substitution Form if you bid a Substitution or include a comment to that "No Voluntary Substitution is Proposed". Electronically received Bids will be printed and read after Thursday, April 30, 2020, 1:30 pm prevailing time. Contractors are reminded they may come to the

Warehouse and leave a bid in person. This is in compliance with Executive Order No.13 Section 9 from the Governor of Illinois: Include electronic bid to CC: Marty Hickman, Business Manager, hickmanms@myunit5.org.

8. TO THE SPECIFICATIONS, Section 28 3100, Fire Detection: Add new subparagraph E. Simplex (douglas.baer@jci.com) shall install a heat detector near the center of the new 117 room. Also, a strobe light must be installed in Room 117 on the east wall and on the west wall of the Restroom 117.1.

9. TO THE SPECIFICATIONS, Section 01550, Access Roads and Parking Areas: The Turf Protection Mat is optional, but the contractor must repair damaged grass and sidewalk areas. The Turf Mat might save money in the long run.

10. TO THE SPECIFICATIONS, Section 26 0920, Electrical Fixtures: Add paragraph 1.01.E: Attached are specification model numbers for light fixtures.

11. TO THE DRAWINGS, Sheet A-1 Office Floor Plan: The south and east walls will change. The two large panes of wire glass will be removed from job site. The south and north wall will have 3' high base wall of metal studs @ 16" o.c. stud cavity filled with mineral wood insulation for sound reduction with impact resistant gypsum board. The south glazed area will be separated with double metal studs to the plaster ceiling and safety glazing. The west wall will have 2'-6" metal stud and impact resistant gypboard at each extremity, four divisions @ 29" o.c. with double stud to plaster ceiling and safety glazing. All gypsum board will be ¾ impact resistant, taped, sanded smooth, primed and painted two (2) coats of acrylic latex. Install with framing system shown in specifications to eliminate trim out of glazing. Refer to attached Sheet A-1.1 for modified arrangement.

END ADDENDUM NO. 2

SOUTH ELEVATION

36"

2'-5"±   2'-5"±   2'-5"±   3'-4"   9¼"

11'-5" (VERIFY)

2 / A-2   **SOUTH ELEVATION**

EAST ELEVATION

(e) PLASTER CEILING
6'-9 3/4"

36"

2'-6"   2'-5"±   2'-5"±   2'-5"±   2'-5"±   2'-6"

14'-9" (VERIFY)

1 / A-2   **EAST ELEVATION**

1/2 / A-2   **LOBBY OFFICE ELEVATIONS**

SCALE: 1/4" = 1'-0"

2442_A2.dwg

0   1'   2'   4'   8'   12'

OFFICE FLOOR PLAN

12'-4½"

11'-4¾"

5"   6¾"

NEW MATCH (e)WALL SIZE
:SOLID WALL 3½"X1½" METAL
STUDS @16"O.C., COVER WITH
IMPACT RESISTANT ⅝" GYP
BOARD BOTH SIDES

4'-0"

3'-1¾"

17'-7½"

9'-11"

4¾"± RAISED FLOOR DUCT CHASE

NEW LOBBY WINDOW WALL:
SEE ADDENDUM NO.2

120A

2'-6"

2'-5"±

2'-5"±

2'-5"±

2'-6"

14'-9¾"

1 / A-2

6¾"

5'-0"

2'-5"±   2'-5"±   2'-5"±

11'-3⅜"

3'-4"

6¾"

1" BULLNOSE
CORNER

NEW WALL TO
FOLLOW ANGLE
OF (e)CONDUIT
ALONG CEILING

2 / A-2

2 / A-2   **OFFICE FLOOR PLAN**

SCALE: 1/4" = 1'-0"

2442_A1.dwg

0   1'   2'   4'   8'   12'

REVISIONS

NO.	DATE	REMARKS
1	04/10/2020	ADDENDUM NO.2

Catalog Number	FIXTURE ①
Notes	2BLT4 48L ADP GZ10 LP840
Type	

BLT Series LED

2BLT4

ADP Diffuser Option

2' x 4'
LED

CSA+ CAPABLE   DLC DLC PREMIUM QUALIFIED

eldoLED

nLight

Ribbed Reflector Option

FEATURES & SPECIFICATIONS

INTENDED USE —The BLT Best-in-Value Low Profile LED luminaire features a popular center basket design that offers a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLT the perfect choice for many lighting applications including schools, offices and other commercial spaces, retail, hospitals and healthcare facilities. The low profile BLT design (2-3/8") also makes it an excellent choice for renovation projects.

CONSTRUCTION — Prior to fabrication, BLT components are coated with a proprietary paint blend and die-formed for dimensional consistency.

The BLT reflector is available in both smooth and ribbed finishes. For a ribbed finish, add RIB to the end of the product description. See the ordering tree below for additional detail.

End plates contain easy-to-position integral T-bar clips for securely attaching the luminaire to the T-grid. For additional T-grid security, optional screw on T-bar clips are available.

Diffusers are extruded from impact modified acrylic for increased durability.

LED boards and drivers are accessible from the plenum.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Four diffuser choices available - curved and square designs with ribbed or a smooth frosted finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Color Variation within 3-step MacAdam ellipse (3SDCM).

Non-Configurable BLT: Generic 0-10 volt dimming driver. Dims to 10%

Configurable BLT: available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information below.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless RIO, RES7 sensors, or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission. nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Driver disconnect provided where required to comply with US and Canadian codes.

SENSOR— Integrated sensor (individual control): Sensor Switch MSD7ADCX ((Passive infrared (PIR)) or MSDPDT7ADCX ((PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Integrated Smart Sensor (nLight Air Wireless Platform): The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

INSTALLATION — The BLT's low profile design of only 2-3/8" provides increased installation flexibility especially in restrictive plenum applications. The BLT fits into standard 15/16" and narrow 9/16" T-grid ceiling systems.

Suitable for damp location.

For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

LISTINGS — CSA Certified to meet U.S. and Canadian standards. IC rated. DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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. Specifications subject to change without notice.
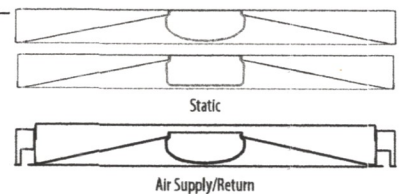
Specifications
Length: 47-3/4 (121.2)
Width: 23-3/4 (60.3)
Depth: 2-3/8 (6.0)
Depth with Air supply/return: 2-3/4 (6.9)
All dimensions are inches (centimeters) unless otherwise specified.

Static

Air Supply/Return

Embed nLight controls today. Prepare for tomorrow.

Now
- 👤 User-friendly install
- 💡 Enhanced energy savings
- 📋 Code compliance

Tomorrow
- 🔲 Scalability
- ⚙️ Space configuration
- ▷▷ Future-ready

CSA+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*

- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

26-0920 Electrical Fixtures   A/E # 24422319

Catalog Number	FIXTURE ②
Notes	LND4 40/15 LO4AR LSS MVOLT GZ10
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.
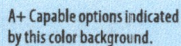
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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.

Specifications subject to change without notice.

LDN4

4" OPEN
Non-IC
New Construction Downlight

A+ Capable options indicated by this color background.

ORDERING INFORMATION   Lead times will vary depending on options selected. Consult with your sales representative.
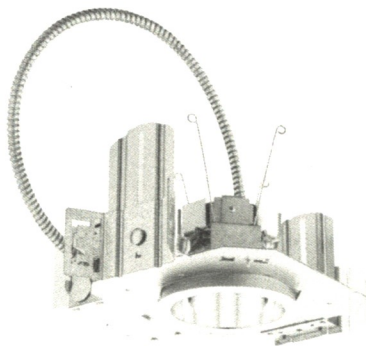
Example: LDN4 35/15 LO4AR LSS MVOLT EZ1

LDN4								
Series	**Color temperature**		**Lumens[1]**		**Aperture/Trim Color**		**Finish**	**Voltage**
LDN4 4" round	27/ 2700K		05 500 lumens		LO4 Downlight	AR Clear	LSS Semi-specular	MVOLT Multi-volt
	30/ 3000K		07 750 lumens		LW4 Wallwash	WR[2] White	LD Matte diffuse	120 120V
	35/ 3500K		10 1000 lumens			BR[2] Black	LS Specular	277 277V
	40/ 4000K		15 1500 lumens					347[3] 347V
	50/ 5000K		20 2000 lumens					
			25 2500 lumens					
			30 3000 lumens					
			40 4000 lumens					

Driver		**Options**			
GZ10	0-10V driver dims to 10%	SF[4]	Single fuse	N80[8]	nLight™ Lumen Compensation
GZ1	0-10V driver dims to 1%	TRW[6]	White painted flange	NPS80EZ[7,10]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).
EZ10	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	TRBL[6]	Black painted flange	NPS80EZER[7,10]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.
		EL[5]	Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	HAO[11]	High ambient option (40°C)
EZ1	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELR[5]	Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	CP[12]	Chicago Plenum
		ELSD[5]	Emergency battery pack with self-diagnostics, 10W Constant Power, integral test switch. Not Certified in CA Title 20 MAEDBS	RRL___	RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
		ELRSD[5]	Emergency battery pack with self-diagnostics, 10W Constant Power, remote test switch. Not Certified in CA Title 20 MAEDBS	NLTAIR2[8,9]	nLight® Air enabled
		E10WCP[5]	Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDBS	NLTAIRER2[9,10]	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options
		E10WCPR[5]	Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDBS	USPOM	US point of manufacture
		NPP16D[7,10]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	90CRI	High CRI (90—)
		NPP16DER[7,10]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.		

Notes
1. Overall height varies based on lumen package; refer to dimensional chart on page 3.
2. Not available with finishes.
3. Not available with emergency options.
4. Must specify voltage 120V or 277V.
5. 12.5" of plenum depth or top access required for battery pack maintenance.
6. Available with clear (AR) reflector only.
7. Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
8. Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
9. Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options.
10. NLTAIR2 and NLTAIRER2 not recommended for metal ceiling installations.
11. Fixture height is 5-11/16" for all lumen packages with HAO.
12. Must specify voltage for 3000lm. Not available with emergency battery pack option.

26-0920 Electrical Fixtures   A/E # 24422319

JUNO®

UPLD 22IN SWW4 90CRI WH

Fixture Type: FIXTURE ③

Location:

Contact/Phone:

UNDERCABINET LIGHTING
LED SWITCHABLE WHITE, DIMMABLE
UPLD

PRODUCT DESCRIPTION
Available in four lengths, the UPLD Swivel LED undercabinet includes an easily accessible switch to select 3000K, 3500K or 4000K color temperature with 50,000 hours of life. Provides task or accent lighting in commercial, retail, hospitality and residential applications. Ideal for use over and under cabinets, display cases, task lighting, office lighting, coves and utility/work areas. 5-year limited warranty.

PRODUCT SPECIFICATIONS
LEDs Utilizes long-life, high-efficiency LEDs binned to within a 3-step MacAdam ellipse for excellent color consistency • Rated for 50,000 hours at 70% lumen maintenence • 90 CRI minimum • The UPLD uses an improved, recessed linking mechanism that allows two fixtures to connect together with virtually no gap between with included row connector.

Driver Integrated, high efficiency 120v, 50Hz driver • Dimmable • Works with most standard incandescent, magnetic low voltage or electronic low voltage dimmers • Compatible with most residential phase-cut dimmers.

Housing Slim 1" profile • Light bar has 20 degree swivel in each direction • Housing end caps can be pivoted for easy access to linking port • Linkable, plug-together design to connect fixture-to-fixture • Available in white or bronze finishes • Each fixture has an integrated ON/OFF switch for independent power control • Juno Pro-Series accessories are not compatible • For a complete list of compatible accessories, see below

Diffuser Lightly frosted, acrylic diffuser for maximum light transmission and uniform light distribution • Swivel head allows light to be directed to desired area.

Labels cULus listed to US and Canadian safety standards • ENERGY STAR® certified • Listed for Damp Locations • Certified to the high efficacy requirements of California T24 JA8-2016.

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. Specifications subject to change without notice.

INSTALLATION
UPLD Series fixtures offer several convenient methods for installation and can be installed as direct wire or portable luminaires. Fixtures may be mounted flush to the backsplash or up against the front lip of the cabinetry using captive mounting screws.
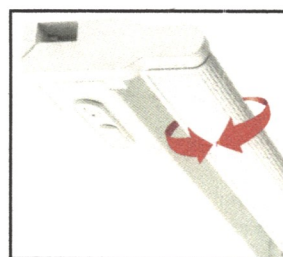
Direct Wire The UPLD 9", 14", 22" and 30" lengths have a rear wiring access compartment and push-in electrical connectors for direct-wire application • Each length includes a die cast fitting for 3/8" flexible metal conduit • Optional UCD JB Junction/Splice box (sold separately) is available to facilitate bringing power to front end of cabinetry and then using jumper cords to connect to fixtures (see installation diagram below) • All standard mounting hardware included • 17" jumper wire and straight joiner (row) connector are included accessories.

Electrically Connecting Multiple Fixtures Fixtures can be electrically joined together using either the straight joiner (row) connector supplied with each fixture or with the included 17" connector jumper cord or optional 24" UC ERC24 connecting cord. No more than 29 units of any size should be linked together.
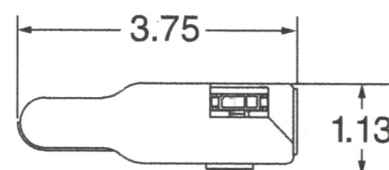
DIMENSIONS

	Dim A	Dim B
UPLD 09	9	3.56
UPLD 14	14	7
UPLD 22	22	11
UPLD 30	30	15

ENGINEERING DATA

	9"			14"			22"			30"		
	3000K	3500K	4000K	3000K	3500K	4000K	3000K	3500K	4000K	3000K	3500K	4000K
Lumens	291	307	301.59	471	506	498.63	826	886	867	1105	1187	1166
CCT	3044	3544	4036	3040	3525	4027	3047	3543	4032	3006	3526	4017
CRI	94	95	95.37	94	96	95	94	96	95	95	96	95
Wattage	4.5	4.39	4.47	6.79	6.54	6.65	11.41	11.07	11.33	15.3	14.9	15.2
Lumens/Watt	64.61	69.83	67.48	69.41	77.3	75.03	72.35	79.99	76.54	72.23	79.67	76.73
Amperage	0.04A	0.04A	0.04A	0.06A	0.06A	0.06A	0.10A	0.10A	0.10A	0.13A	0.13A	0.13A

ORDERING INFORMATION

Example: UPLD 09IN SWW4 90CRI WH

Series		Length		CCT		Minimum CRI		Finish	
UPLD	Swivel LED Undercabinet	09IN	9 inch	SWW4	3000K, 3500K, 4000K	90CRI	90 CRI	BZ	Bronze
		14IN	14 inch					WH	White
		22IN	22 inch						
		30IN	30 inch						

26-0920 Electrical Fixtures   A/E # 24422319

LITHONIA LIGHTING®

FEATURES & SPECIFICATIONS

INTENDED USE — Built on the compact, low-profile Z strip channel, this LED strip offers long maintenance-free life, several color temperatures, lumen outputs and lengths. Ideal for new construction and retrofit applications in T5 and T8 lengths. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, cove and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Compact-design channel and cover are formed from code-gauge cold-rolled steel. Easy to install row aligner included for continuous row mounting.

Finish: Paint options include high-gloss, baked white enamel (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). After fabrication, five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Standard diffuse snap on/snap off lens eliminates pixels, improves uniformity and minimizes glare. L/LENS option available.

ELECTRICAL — L70>60,000hours. Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ ordering information on page 3.) Electronic LED driver is rated for 75 input watts maximum (see Operational Data on page two for actual wattage consumption), **multi-volt input and 0-10V dimming standard**. This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

LEDs provide nominal 80 CRI at 3000 K, 3500 K,4000 K, or 5000 K.

Lumen output up to 2,000 lumens per foot. In 86°F (30°C) ambient environments. Luminaire should be installed in applications where ambient temperatures do not exceed 86°F (30°C).

INSTALLATION — Tool-less channel cover for easy installation.

Fixture may be surface mounted (with or without ZSPRG hanger), pendant or stem mounted with appropriate mounting options. Three-point aligner locks in place for easy continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -40°F (-40°C) and 86°F (30°C).

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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.

Specifications subject to change without notice.

LED Striplight

ZL1N

24", 48" and 96" Lengths

L/Lens

Lensed

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency

- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

LITHONIA LIGHTING®

Low Profile LED Wraparound

BLWP

2', 4' and 8' Lengths

FEATURES & SPECIFICATIONS

INTENDED USE — The BLWP LED Wrap/ Wall bracket expands the BLT family with the features and aesthetics of the popular BLT and BLTR center basket design with a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLWP the perfect choice for many lighting applications including schools, offices, stairwells and other commercial spaces. With multiple mounting options, easy installation, and controls configurations, the BLWP is an excellent choice for renovation and new construction.

CONSTRUCTION — BLWP enclosure components are die-formed for dimensional consistency. For 2' and 4' product, hinged door frame allows easy access to electrical components and mounting locations without having to remove additional parts. For 8' product, suspension aircraft cables allow easy access to electrical components and mounting locations without having to remove additional parts. Available in three paint finishes: white (pre-paint), painted after fabrication white, and natural aluminum. Diffusers are extruded from impact modified acrylic for increased durability. Optional polycarbonate lens available for additional impact resistance, as well as Tamper Proof screws.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces — rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Five diffuser choices available - curved and square designs with ribbed, a smooth frosted finish, and a smooth polycarbonate finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Replaces 2 lamp fluorescent.

Configurable BLWP: Available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information on page 2.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission, while nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Driver disconnect provided where required to comply with US and Canadian codes.

CONTROLS — **Integrated sensor (individual control):** Sensor Switch MSD7ADCX (Passive infrared (PIR)) or MSDPDT7ADCX (PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 5 for the nLight sensor options.

Integrated Smart Sensor (nLight AIR Wireless Platform): The rES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or dual technology occupancy sensor. It pairs to other luminairs and wall switches through our mobile app, CLAIRITY PRO, which allows for simple sensor adjustment. See page 5 for more details on the Integrated Smart Sensor.

INSTALLATION — Intended for surface or suspend mounting. For row mounting and quick mounting to junction boxes see accessories section. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/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. Specifications subject to change without notice.

eldoLED   DLC PREMIUM   CSA+ CAPABLE   LED   nLight   ni
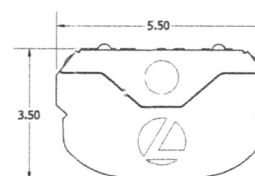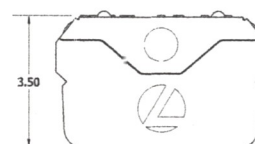
Specifications

2' Dimensions
Length: 24 (60.96)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)

4' Dimensions
Length: 48 (121.92)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)

8' Dimensions
Length: 96 (243.84)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)

5.50 / 3.50

All dimensions are inches (centimeters) unless otherwise specified.

CSA+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or control networks marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

A+ Capable options indicated by this color background.

Series	Lumens[1]		Lens/Diffuser		Driver		Driver		Color Temperature	
BLWP2 2' LED Wraparound	**Standard Efficiency (>100 LPW)**	**High Efficiency (>130 LPW)[1]**	ADP	Curved, ribbed	(blank)	MVOLT	EZ1	eldoLED dims to 1% (0-10v dimming)	LP830	82CRI, 3000K
	8L 800 Lumens	8LHE 800 Lumens	ADSM	Curved, smooth	120	120V			LP835	82CRI, 3500K
	20L 2000 Lumens	20LHE 2000 Lumens	SDP	Square, ribbed	277	277V	GZ1	Generic dims to 1% (0-10v dimming)[4]	LP840	82CRI, 4000K
	33L 3300 Lumens	33LHE 3300 Lumens	SDSM	Square, smooth	347	347V[3]			LP850	82CRI, 5000K
	40L 4000 Lumens	40LHE 4000 Lumens	PDSM	Curved, smooth polycarbonate[2]			GZ10	Generic dims to 10% (0-10v dimming)[4]	LP930	90CRI, 3000K
	48L 4800 Lumens	48LHE 4800 Lumens	**Diffusers w/ trim rings**						LP935	90CRI, 3500K
BLWP4 4' LED Wraparound	15L 1500 Lumens	15LHE 1500 Lumens	ADPT	Curved, ribbed			SL1	Step-level dimming[4,25]	LP940	90CRI, 4000K
	20L 2000 Lumens	20LHE 2000 Lumens	ADSMT	Curved, smooth			TD1	Triac Dimming[5]	LP950	90CRI, 5000K
	30L 3000 Lumens	30LHE 3000 Lumens	SDPT	Square, ribbed						
	40L 4000 Lumens	40LHE 4000 Lumens	SDSMT	Square, smooth						
	48L 4800 Lumens	48LHE 4800 Lumens	PDSMT	Curved, smooth polycarbonate[2]						
	60L 6000 Lumens	60LHE 6000 Lumens								
	72L 7200 Lumens	72LHE 7200 Lumens								
	85L 8500 Lumens	85LHE 8500 Lumens								
	100L 10000 Lumens	100LHE 10000 Lumens								
BLWP8 8' LED Wraparound	40L 4000 Lumens	40LHE 4000 Lumens								
	60L 6000 Lumens	60LHE 6000 Lumens								
	80L 8000 Lumens	80LHE 8000 Lumens								
	100L 10000 Lumens	100LHE 10000 Lumens								
	140L 14000 Lumens	140LHE 14000 Lumens								
	180L 18000 Lumens	180LHE 18000 Lumens								
	200L 20000 Lumens	200LHE 20000 Lumens								

nLight Interface[6]	Control[6]			
nLight Wired	**nLight Wired**		**Individual Control**	
(blank) no nLight® interface	(blank) no nLight control		MSD7ADCX	PIR integral occupancy sensor with automatic dimming control photocell[9,11,12]
N80 nLight with 80% lumen management	NES7 nLight™ nES 7 PIR integral occupancy sensor[9,10]			
N80EMG nLight with 80% lumen management[7] For use with generator supply EM power	NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control[9,10]			
	NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell[9,10]		MSDPDT7ADCX	PDT integral occupancy sensor with with automatic dimming control photocell[9,11,12]
N100 nLight without lumen management	NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell[9,10]			
N100EMG nLight without lumen management[7] For use with generator supply EM power	**nLight Wireless**			
	(blank) no nLight control			
	RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control[9,13]			
nLight Wireless	RES7PDT nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Zone Control[9,13]			
(blank) no nLight® interface	RIO nLight AIR radio module without sensor[9,13]			
NLTAIR2 nLight AIR Generation 2 enabled[8]	RES7EM nLight AIR PIR integral occupancy sensor with automatic dimming photocell and UL924 Emergency Operation, via power interrupt detection[9,13]			
	RES7PDTEM nLight AIR microphonics dual technology occupancy sensor with automatic dimming photocell & UL924 Emergency Operation, via power interrupt detection[9,13]			
	RIOEM nLight AIR radio module less sensor, with UL924 Emergency Operation, via power interrupt detection[12,13]			

Standby mode[6]	Options				Finish	
(blank) Fixture turns off when unoccupied	E10WLCP	EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS	QMB	Quick Mount Bracket[18]	(blank)	Standard pre-paint white
DIM10 Fixture dims to approximately 10% light output when unoccupied[14]			TRS	Tamper Resistant Screw[19]	PAF	Paint After Fabrication White
DIM50 Fixture dims to approximately 50% light output when unoccupied[14]	EL7L	700 nominal lumens battery pack[16]	GLR	Fast-blowing fuse[20]	DNA	Paint After Fabrication Natural Aluminum
NOC Occupancy sensor disabled[15]	EL14L	1400 nominal lumens battery pack[16]	GMF	Slow-blowing fuse[20]		
	BGTD	Bodine Generator Transfer Device[17]	FAO	Field Adjustable Output[21,25]		
	USPOM	US Point of Manufacture	PLR___	Plug-in wiring, see page 8 for ordering information[22]		
			PLR1LVG	Plug-in wiring, low voltage dimming[22,23]		

See Stock configurations, Accessories and footnotes on next page.

26-0920 Electrical Fixtures   A/E # 24422319

A+ Capable options indicated by this color background.

Series		Length		Reflectors[2]		Nominal lumens[3]		Diffuser		Voltage	
ZL1N	LED striplight	L24	24"[1]	(blank)	Less reflector	1500LM	1,500 lumens	FST	Snap on frosted, diffuse	MVOLT	120-277V
				SMR	Symmetric	2500LM	2,500 lumens	L/LENS	No diffuser	120	120V
						3500LM	3,500 lumens	SBL FST	Straight blade louver with snap on frosted, diffuse	208	208V
		L46	46"	(blank)	Less reflector	3000LM	3,000 lumens			240	240V
		L48	48"	ASR	Asymmetric (L48 only)	5000LM	5,000 lumens			277	277V
				SMR	Symmetric	7000LM	7,000 lumens			347	347V[4]
TZL1N	LED striplight	L92	92"	(blank)	Less reflector	6000LM	6,000 lumens			480	480V[4]
		L96	96"	SMR	Symmetric	10000LM	10,000 lumens				
						14000LM	14,000 lumens				

Color temperature		Color rendering index		Options				Paint finish	
30K	3000 K	80CRI	80 CRI	PLR__	Plug-in wiring[5,6]	**Individual Controls**[5]		WH	White
35K	3500 K	90CRI	90 CRI	PLR1LVG	Plug-in wiring-low voltage[5,6]	LBOZU	360° low mount motion sensor, pre-wired[10]	GALV	Galvanized
40K	4000 K			E7W	Emergency battery pack, 7W CA Title 20 Noncompliant[7]	LBHOSZU	360° low mount motion sensor with dimming, pre-wired[10]	MB	Matte black
50K	5000 K			2E7W	Two Emergency battery packs, 7W CA Title 20 Noncompliant[7,8]	LBPZU	360° low mount motion sensor with photocell, pre-wired[10]	SKGY	Smoke gray
				E10WLCP	Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7]	LBMOSZU	360° low mount motion sensor, dimming & switching photocell, pre-wired[10]		
				2E10WLCP	Two Emergency battery packs, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	**Cord sets:**[11]			
				E15WLCP	Emergency battery pack, 15W Linear Constant Power, Certified in CA Title 20 MAEDBS[7,8]	CS1W	Straight plug, 120V		
						CS3W	Twist-lock, 120V		
				OUTEND	Cord set to exit endplate of fixture	CS7W	Straight plug, 277V		
				Wireless Controls[5]		CS11W	Twist-lock, 277V		
				NLTAIR2 RLSXR10	nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°	CS25W	Twist-lock, 347V		
				NLTAIR2 RLSXR10EM	nLight Air Generation 2 Fixture mount, LSXR sensor low mount 360°, UL924 Emergency operation[9]	CS97W	Twist-lock, 480V		
						CS93W	600V SEOOW white cord, no plug (no voltage required)		

Accessories: Order as separate catalog number.			
HC36	Hanger chain, 36"	ZLR L24 SYM WH	24" symmetric reflector, white finish
ZACVH	Aircraft cable 10' (one pair)	ZLR L46 SYM UPL WH	46" symmetric reflector with uplight, white finish
ZLANGBKT	Luma-tilt™ angle bracket for shelf or ledge mounting only	ZLR L46 SYM WH	46" symmetric reflector, white finish
SQ_	Stem kit, 2" increments up to 48"	ZLR L48 ASY WH	48" asymmetric reflector, white finish
NPP16D	nLight® switching/dimming module	ZLR L48 SYM UPL WH	48" symmetric reflector with uplight, white finish
rPP20D	nLight® Air switching/dimming module	ZLR L48 SYM WH	48" symmetric reflector, white finish
LSXR	Sensor Switch® LSXR occupancy sensor[4]	ZLR L92 SYM UPL WH	92" symmetric reflector with uplight, white finish
ZSPRG	For 15/16" T-grid only	ZLR L92 SYM WH	92" symmetric reflector, white finish
WGZ24	24" wireguard, white[12]	ZLR L96 SYM UPL WH	96" symmetric reflector with uplight, white finish
WGZ48	48" wireguard, white[12,13]	ZLR L96 SYM WH	96" symmetric reflector, white finish
ZLR L24 SYM UPL WH	24" symmetric reflector with uplight, white finish	UNIVERSAL REFL ALIGNER	Universal reflector aligners, quantity 1

Notes
1. Not available with 347V, 480V or Batteries
2. Optional Reflectors ship separately.
3. See Operational Data on page 2 for actual lumens.
4. Utilizes step down transformer.
5. See ordering information on pages 4 and 5 and rLSXR specification sheet for more configurations. When choosing Sensor and PLR for same fixture, consult the factory.
6. Not available with cord sets.
7. MVOLT only. Not available with cord sets with plugs. Battery Spec sheet linked for more information.
8. Only available with 10,000LM and 14,000LM packages.
9. MVOLT only.
10. Available with MVOLT, 347V and 480V only. This sensor configuration is suitable for minimum ambient temperature of 14°F (-10°C). See page 6 for low temperature option providing -4°F (-20°C) minimum ambient Sensors come prewired, they must be snapped into place at time of installation.
11. Cordsets exit back of fixture unless OUTEND option is specified. Must specify voltage (not required when ordering CS93W).
12. Not compatible with reflector
13. Order 2 for tandem double length fixtures (TZL1N).