

DIGITAL NAVIGATION

[Ordering Tree](#) [nLight Platform](#) [Photometrics](#) [Performance Data](#)

FEATURES & SPECIFICATIONS

INTENDED USE — The CPX Series LED is a low-glare back-lit panel featuring an external driver. This cost-effective, reliable flat panel is visually comfortable and can be recessed mounted. Suitable for many applications such as schools, offices, retail, convenience stores, hospitals, healthcare facilities and other commercial spaces. A typically configured CPX features a **Unified Glare Rating (UGR)** starting at 17. Certain airborne contaminants can diminish the integrity of acrylic. [Click here for Acrylic Environmental Compatibility table for suitable uses](#). U.S. Patent No. 10,681,784.

CONSTRUCTION — The aluminum frame with satin white lens provides excellent shielding and uniform luminance. CPX's low-profile design provides increased installation flexibility especially in restricted plenum spaces. The back plate includes integral T-bar clips for installation into T-grid ceilings.

ELECTRICAL — Direct-lit Panel with Long-Life LEDs, coupled with a high-efficiency driver, provide superior illumination for extended service life. Greater than 70% LED lumen maintenance at 60,000 hours (L80>60,000). 0-10V dimming driver, dims to 1% and contains non-isolated dimming leads.

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.

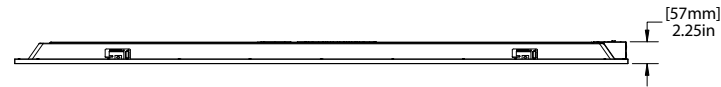
Integrated Smart Sensor (nLight Air Wireless Platform) — The RES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or a microphonics (PDT) dual technology occupancy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

LISTINGS — CSA certified to meet US and Canadian standards. Damp location listed. IC rated. IP5X Rated. 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/QPL to confirm which versions are qualified. Rated for NSF/ANSI Standard 2 - Light Fixture for Splash Zone and Non-Food Zone. NOM Certified.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

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. Specifications subject to change without notice.



Catalog Number
Notes
Type

CPX LED PANEL

Fully Switchable Configurable

1' x 4', 2' x 2' and 2' x 4'



[†] Tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms.

Embed nLight controls today. Prepare for tomorrow.

Now

- User-friendly install
- Enhanced energy savings
- Code compliance

Tomorrow

- Scalability
- Space configuration
- Future-ready

A+ 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

Configurable CPX Switchable LED Flat Panel



A+ Capable options indicated by this color background.



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

ORDERING INFORMATION

Example: CPX 2X2 AL07 80CRI SWW7 SWL MVOLT NLTAIR2 APIR

Series	Fixture Dimension	Lumen Output	CRI	Color Temperature	Diffuser	Voltage
CPX LED Panel	1X4 1' X 4'	AL07 Switchable Lumens - 2500LM, 3200LM, and 4000LM	80CRI 80 CRI	SWW7 Switchable white, 35K/ 40K/50K	SWL Satin White A12 Prismatic A12 Pattern	MVOLT 120-277V
	2X2 2' X 2'	AL07 Switchable Lumens - 2500LM, 3200LM, and 4000LM				120 120V
	2X4 2' X 4'	AL08 Switchable lumens – 4000LM, 5000LM, and 6000LM				277 277V 347 347 ‡

Emergency Option	Control Input	Sensor	Options
(blank) No Emergency Option	(blank) No controls		GLR Fast-blowing fuse ‡ GMF Slow-blowing fuse ‡
E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS	SSE Sensor Switch Embedded	APIR Occ sensing with passive infrared - on/off functionality and auto dimming photocell	PWS1836 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit ‡
E7W Emergency Battery Pack, 7W, CA Title 20 Noncompliant		APDT Occ sensor dual tech (passive infrared & microphonics) and auto dimming photocell	PWS1846 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuit ‡
GTD Generator Transfer Device ‡	NLIGHT nLight enabled NLIGHTER nLight enabled, for use with generator supply EM power NLIGHTLM nLight enabled with lumen management NLIGHTERLM nLight enabled with lumen management, for use with generator supply EM power	(blank) No sensor, Control Input function only	PWS1856LV 6' pre-wire, 3/8" diameter, 18 gauge, 1 circuit w/ low voltage ‡
		PIR Occ sensing with passive infrared - on/off functionality	PWS1846 PWSLV Two cables: one 6' pre-wire, 3/8" diameter, 18 gauge, 2 circuits; one 6' pre-wire, 3/8" diameter, 18 gauge ‡
		PDT Occ sensor dual tech (passive infrared & microphonics)	
		APIR Occ sensing with passive infrared - on/off functionality and auto dimming photocell	
	NLTAIR2 nLight AIR Generation 2 (wireless) enabled ‡ NLTAIREM2 nLight AIR Generation 2 (wireless) enabled and UL924 Emergency Operation, via power interrupt detection ‡	APDT Occ sensor dual tech (passive infrared & microphonics)	DWAM Anti-Microbial paint
		APDT Occ sensor dual tech (passive infrared & microphonics)	NPLT Narrow Pallet
		(blank) No sensor, Control Input function only	BAA Buy America(n) Act Compliant
		APIR Occ sensing with passive infrared - on/off functionality and auto dimming photocell	
		APDT Occ sensor dual tech (passive and microphonics) and auto dimming photocell	
		APIREM Occ sensing with passive infrared - on/off functionality and auto dimming photocell and UL924 Emergency operation, via power interrupt detection	
		APDTEM Occ sensing dual tech- (passive infrared & microphonics) and auto dimming photocell and UL924 Emergency operation, via power interrupt detection	

NOTE: ‡ indicates option chosen has ordering restriction or note. Please reference restrictions/notes chart on next page. Restriction notes are ordered in the sequence they appear in the ordering tree.

OPTION VALUE RESTRICTIONS/ NOTES

‡ Option Value Ordering Notes/ Restrictions	
Option value	Restriction
347	347 not available with E10WLCP, E7W, GTD, GLR or GMF.
GTD	Not available with 347 or in 1X4 size .
NLTAIR2	See UL924 Sequence of Operation Chart on Page 4. Can be used as a normal power sensing device for nLight AIR devices and luminaires with EM emergency options.
NLTAIREM2	See UL924 Sequence of Operation Chart on Page 4. Leave Sensor option section blank, not available with APIR, APDT, APIREM, or APDTEM.
PWS1836	Not available with E10WLCP or E7W.
PWS1846	Only available with E10WLCP or E7W.
PWS1856LV	Not available with E10WLCP, E7W or Controls.
PWS1846 PWSLV	Not available with Controls.
GLR, GMF	Must specify voltage, only available with 120 or 277.

ACCESSORIES

Accessories: Order as separate catalog number.	
ILBLP CP10 HE SD A	IOTA 10 Watt Constant Power, High Efficiency LED Emergency Driver for CA Title 20 ‡
ELA PSDMT	Remote mount tray for ILBLP battery.
DGA14	Drywall grid adapter for 1x4 recessed fixture.
DGA22	Drywall grid adapter for 2x2 recessed fixture.
DGA24	Drywall grid adapter for 2x4 recessed fixture.
1X4SMKSH	Multi-Use Surface Mount Kit 1x4, Shallow Depth
2X2SMKSH	Multi-Use Surface Mount Kit 2x2, Shallow Depth
2X4SMKSH	Multi-Use Surface Mount Kit 2x4, Shallow Depth
1X4SMKSH PAF	Multi-Use Surface Mount Kit 1X4 Post-Paint
2X2SMKSH PAF	Multi-Use Surface Mount Kit 2X2 Post-Paint
2X4SMKSH PAF	Multi-Use Surface Mount Kit 2X4 Post-Paint
PAC 2DNF 36	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed, 36 inches. Recommended for 2X2 or 1X4 Panel Fixture.
PAC 2DF 36	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 36 inches. Recommended for 2X2 or 1X4 Panel Fixture. ¹
PAC 4DNF 36	Panel Air Craft Kit, 4 cables, No Power Feed, 36 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures.
PAC 4DF 36	Panel Air Craft Kit, 4 cables, with Power Feed, 36 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures. ¹
PAC 2DNF 72	Panel Air Craft Kit, 2 cables with Y splitter, No Power Feed 72 inches. Recommended for 2X2 or 1X4 Panel Fixture.
PAC 2DF 72	Panel Air Craft Kit, 2 cables with Y splitter, with Power Feed, 72 inches. Recommended for 2X2 or 1X4 Panel Fixture. ¹
PAC 4DNF 72	Panel Air Craft Kit, 4 cables, No Power Feed, 72 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures.
PAC 4DF 72	Panel Air Craft Kit, 4 cables, with Power Feed, 72 inches. Recommended for 2X4 or 2X2 or 1X4 Panel Fixtures. ¹
RK8BDP 2P U	Disconnect Plug (BDP), 2 Pole, Package of 1
RK8BDP 3P U	Disconnect Plug (BDP), 3 Pole, Package of 1
RK8BDP 2P J10	Disconnect Plug (BDP), 2 Pole, Package of 10
RK8BDP 2P J40	Disconnect Plug (BDP), 2 Pole, Package of 40

Emergency Battery Delivered Lumens

Use the formula below to determine the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver (10W for PS1055)

LPW = Lumen per watt rating of the luminaire.

Notes

1 For MVOLT only, not available with 347V.

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wire-less lighting control commands, 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.

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter/ 2-hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

SWITCHABLE PERFORMANCE DATA FOR SWL LENS

Size (ft)	Nomenclature	Lumen Package	CCT	Lumen	Wattage	Efficacy
1X4	CPX 1X4 AL07 80CRI SSW7 SWL	Low Lumen	3500K	2393	19.0	125.9
			4000K	2450	18.4	132.8
			5000K	2446	19.1	127.7
		Med Lumen	3500K	3226	24.8	129.9
			4000K	3348	24.1	139.0
			5000K	3290	23.1	142.1
		High Lumen	3500K	4093	31.5	130.1
			4000K	4265	30.2	141.0
			5000K	4156	32.5	127.8
2X2	CPX 2X2 AL07 80CRI SSW7 SWL	Low Lumen	3500K	2587	20.5	126.2
			4000K	2664	19.3	137.8
			5000K	2609	20.1	129.6
		Med Lumen	3500K	3432	27.7	124.1
			4000K	3587	26.0	138.1
			5000K	3486	26.9	129.5
		High Lumen	3500K	4322	34.9	123.7
			4000K	4557	32.8	139.1
			5000K	4382	34.0	128.8
2X4	CPX 2X4 AL08 80CRI SSW7 SWL	Low Lumen	3500K	3539	25.9	136.9
			4000K	3672	24.9	147.2
			5000K	3629	25.9	140.3
		Med Lumen	3500K	4754	35.9	132.3
			4000K	4982	34.4	144.9
			5000K	4890	34.5	141.8
		High Lumen	3500K	6032	47.9	126.1
			4000K	6383	45.2	141.3
			5000K	6217	47.9	129.7

SWITCHABLE PERFORMANCE DATA FOR A12 LENS

Size (ft)	Nomenclature	Lumen Package	CCT	Lumen	Wattage	Efficacy
1X4	CPX 1X4 AL07 80CRI SSW7 A12	Low Lumen	3500K	2309	19.0	121.5
			4000K	2364	18.4	128.2
			5000K	2360	19.1	123.3
		Med Lumen	3500K	3113	24.8	125.3
			4000K	3231	24.1	134.1
			5000K	3175	23.1	137.2
		High Lumen	3500K	3950	31.5	125.6
			4000K	4116	30.2	136.1
			5000K	4011	32.5	123.3
2X2	CPX 2X2 AL07 80CRI SSW7 A12	Low Lumen	3500K	2489	20.5	121.5
			4000K	2563	19.3	132.6
			5000K	2510	20.1	124.7
		Med Lumen	3500K	3302	27.7	119.4
			4000K	3451	26.0	132.9
			5000K	3354	26.9	124.6
		High Lumen	3500K	4158	34.9	119.0
			4000K	4385	32.8	133.9
			5000K	4217	34.0	123.9
2X4	CPX 2X4 AL07 80CRI SSW7 A12	Low Lumen	3500K	3424	25.9	132.4
			4000K	3552	24.9	142.4
			5000K	3511	25.9	135.8
		Med Lumen	3500K	4599	35.9	128.0
			4000K	4819	34.4	140.2
			5000K	4731	34.5	137.1
		High Lumen	3500K	5835	47.9	121.9
			4000K	6175	45.2	136.7
			5000K	6014	47.9	125.5

Optical Performance

UGR Values of CPX 1x4 @ 80CRI (70% 50% 20% reflectance using a 4H x 8H room size)							
	CCT	A12			SWL		
		LUMEN	Crosswise	Endwise	LUMEN	Crosswise	Endwise
Low Lumen	3500K	2303	17.9	18	2393	20.2	20
	4000K	2358	18	18	2451	20.3	20
	5000K	2354	18	18	2446	20.3	20
Med Lumen	3500K	3105	18.9	19	3227	21.3	21
	4000K	3223	19.1	19.1	3349	21.4	21.1
	5000K	3167	19	19.1	3291	21.3	21.1
High Lumen	3500K	3940	19.8	19.8	4094	22.1	21.8
	4000K	4105	19.9	20	4266	22.2	22
	5000K	4000	19.8	19.9	4158	22.1	21.9

UGR Values of CPX 2x2 @ 80CRI (70% 50% 20% reflectance using a 4H x 8H room size)							
	CCT	A12			SWL		
		LUMEN	Crosswise	Endwise	LUMEN	Crosswise	Endwise
Low Lumen	3500K	2490	17.9	18.2	2588	20.3	20.1
	4000K	2564	18	18.3	2664	20.4	20.2
	5000K	2511	17.9	18.2	2609	20.4	20.1
Med Lumen	3500K	3303	18.9	19.2	3433	21.3	21.1
	4000K	3452	19	19.3	3587	21.5	21.2
	5000K	3356	18.9	19.2	3487	21.4	21.1
High Lumen	3500K	4160	19.7	20	4323	22.1	21.9
	4000K	4387	19.9	20.2	4559	22.3	22.1
	5000K	4219	19.7	20	4384	22.2	21.9

UGR Values of CPX 2x4 @ 80CRI (70% 50% 20% reflectance using a 4H x 8H room size)							
	CCT	A12			SWL		
		LUMEN	Crosswise	Endwise	LUMEN	Crosswise	Endwise
Low Lumen	3500K	3425	16.4	16.7	3540	18.8	18.7
	4000K	3553	16.6	16.8	3672	18.9	18.8
	5000K	3512	16.5	16.8	3630	18.9	18.8
Med Lumen	3500K	4601	17.4	17.7	4755	19.8	19.7
	4000K	4821	17.6	17.9	4983	20	19.9
	5000K	4732	17.5	17.8	4891	19.9	19.8
High Lumen	3500K	5837	18.3	18.5	6033	20.6	20.5
	4000K	6177	18.5	18.7	6384	20.8	20.7
	5000K	6017	18.4	18.7	6219	20.8	20.6

Lumen Maintenance

Reported Lumen Maintenance	Forecasted Lumen Maintenance
L90 @ 37k Hrs / L80 @ >60k Hrs / L70 @ > 60k Hrs	L90 @ 37k Hrs / L80 @ 76k Hrs / L70 @ 120k Hrs

*Note - Reported LM based on IES standard 6X test period for LM-80 report. Forecasted LM based on TM-21 report extrapolation past 6X LM-80 testing.

CPX compatible with Sensor Switch™ [WSX-D](#) and [SPOD](#) wall switches.



WSX-D



SPOD

PHOTOMETRICS

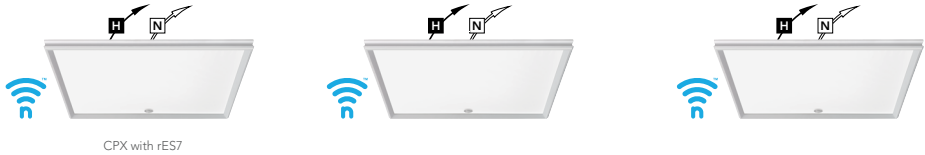
See www.lithonia.com for photometry reports.

Choose nomenclature from these columns

Control/ Sensor Configurations

nLight Platform

nLight AIR Wireless



- Simple as 1,2,3
1. Install the nLight® AIR fixtures with embedded smart sensor
 2. Install the wireless battery-powered wall switch
 3. With the CLAIRITY+ Pro app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



nLight Wired Networking



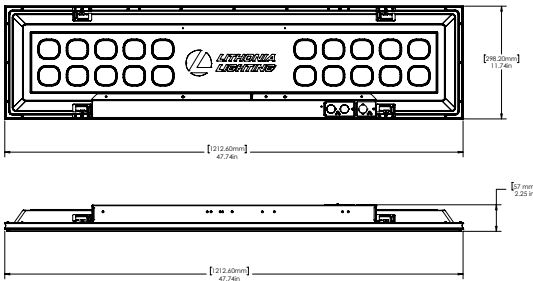
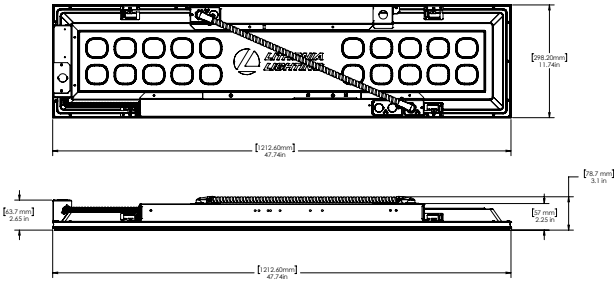
- Simple as 1,2,3
1. Install the nLight® Wired fixtures with embedded control
 2. Install the nLight Wired wall switch
 3. Connect the fixtures using standard CAT5e cables and the devices will automatically discover each other and work (plug and play)



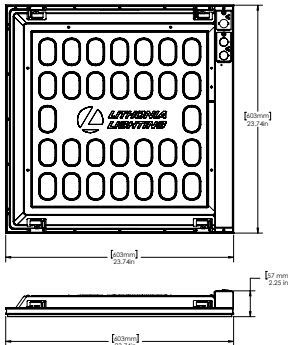
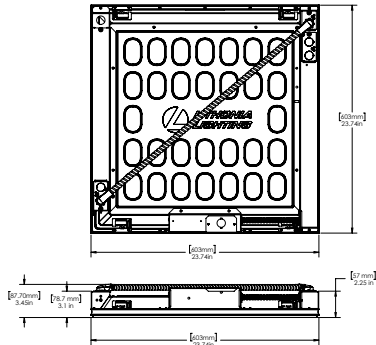
nLight embedded fixtures offer:	Customers get:
Manual Dimming	Convenience and visual comfort for occupants
Motion Sensing and/or Daylight Harvesting	Energy savings and code compliance
Fixture or Group Level Control	Ability to configure lighting to the space requirements
Flexibility	Ease of fixture moves, adds and changes
Wireless Wall Switch (nLight AIR Only)	Ease and flexibility of placement
Astronomical and Time of Day Scheduling	Energy savings and building security
Scalable Solution	nLight controls to grow with your business
Future-Ready	nLight platform to set foundation for future upgrades and capabilities

DIMENSIONS

Length: 47.8" 121.4cm
Width: 11.8" 30.0cm
Depth: 2.3" 5.7cm
Weight:
Unit: 9.25 lbs
Unit Carton: 10.25 lbs



Length: 23.8" 60.5cm
Width: 23.8" 60.5cm
Depth: 1.7" 4.3cm
Weight:
Unit: 9.45lbs
Unit Carton: 10.45lbs



Length: 47.8 (121.4cm)
Width: 23.8" 60.5cm
Depth: 2.3" 5.7cm
Weight:
Unit: 17.25 lbs
Unit Carton: 19.25 lbs

