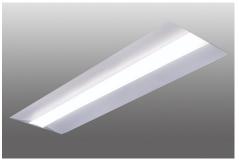
Proiect Name		







LUCEN LU14

1x4 Architectural Recessed



Key Features

- Pre-painted formed 22 gauge cold rolled steel housing
- Highly reflective die-formed white painted reflector
- Wiring access available on both ends and top of housing
- LED offered with a 5-year limited warranty. Covers LED, driver and fixture
- UL and cUL Listed, LO, MO, and HO lumen packages are IC Rated
- Pre-painted fixtures are to be used in dry locations only
- For damp location, must specify Paint After Fabrication (PAF) in the Options section of the luminaire specification
- Maximum fixture weight is 15 lbs Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Buy American Act compliant
- Indigo-Clean available, see Indigo-Clean specification sheets for details



















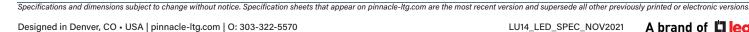
Example Part #: LU14-A-830HO-G1-U-OL2-1-0-W

LU14	-	-	-	-	-	-	-	-	-	-
	SHIELDING	CRI, CCT & OUTPUT	MOUNTING	VOLTAGE	DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH	FIXTURE OPTIONS	CONTROLS

SHIELDING	CRI, CCT & OUTPUT QS,1	MOUNTING	VOLTAGE
A - Satine Lens Q \mathbb{Q} \mathbb{W} - White Rails Q \mathbb{Q} \mathbb{S} - Silver Rails Q \mathbb{Q} \mathbb{Q} Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts Lumen Output pg. 2	G1 - 15/16" Grid Q \subseteq G9 - 9/16" Grid Q \subseteq GS - Screw Slot Grid Q \subseteq FL - Flanged S - Surface Mount <i>Mounting pg.</i> 3	U - Universal (120 thru 277V) QS↓ 1 - 120V QS↓ 2 - 277V QS↓ 3 - 347V Voltage pg. 3
	-		
DRIVER	CIRCUITING	BATTERY & EMERGENCY	FINISH
FSD - Factory Select Driver $(1\%, 0.10v)$ Q \mathbb{Q}_{+} PL2 - Advance Xitanium $(1\%, 0.10v)$ Q \mathbb{Q}_{+} OL4 - Osram 347v $(1\%, 0.10v)$ EE1 - eldoLED ECOdrive $(1\%, 0.10v)$ ES1 - eldoLED ECOdrive $(1\%, 0.10v)$ LH1 - Lutron Hi-lume $(1\%, EcoSystem)$ Q \mathbb{Q}_{+} PR1 - Advance Xitanium SROL2 - Osram $(1\%, 0.10v)$ Q \mathbb{Q}_{+} Driver pg. 4	1 - Single Circuit QS↓ E - Emergency QS↓ (entire fixture) N - Night Light QS↓ (entire fixture) Circuiting pg. 5	0 - None QS 1P - Bodine 10W QS 1IC - Iota 10W, CEC Listed QS 1G - Bodine GTD FSG - Factory Select ALCR GI - Iota ETS DR GB - Bodine GTD Battery and Emergency pg. 5	W - White QS₊ Finish pg. 5

FIXTURE OPTIONS² CONTROLS³ **DLMFC -** Wattstopper DLM (wired) QS - QuickShip QS, NLIGHT - Acuity nLight (wired) TW - Through-wiring **DLMFS -** Wattstopper LLLC (wireless) **CP** - Chicago Plenum QS, EASYS - Philips EasySense (wireless) AM - Antimicrobial Paint FW6 - 6' Flex Whip QS. **SNSLM** - Encelium Sensilum (wireless) WVLX - Eaton WaveLinx (wireless) **GLR** - Fast Blow Fusing QS. VDO - Lutron Vive Sensor (wireless) GMF - Slow Blow Fusing VRF - Lutron Vive Connected (wireless) PAF - Paint after fabrication ENL - Enlighted, "C" Connected Lighting or "I" IOT Fixture Options pg. 5 ENL2 - Enlighted 2-Wire, "C" Connected Lighting or "I" IOT Controls pg. 6

Not all products qualify for DLC listing. For a complete listing of the LUCEN products that qualify for DLC, please go to the DLC website. "When specifying CRI, CCT & OUTPUT the first _ is for specifying either 8 - 80CRI or 9 - 90CRI The ending _ are for specifying output, example HO - High Output. See output charts for more information. For Quickship CRI, CCT & Output see chart on page 4 ²QS must be used in fixture options section of part number to qualify. "Controls can only be used with Satine Lens (A) Single Circuit (1) or Emergency Circuit (E). NLTAIR_ options have a visible antenna. See Controls chart on page 5 for driver options and more information.



Shielding

- · Single piece extruded diffuse lens with convex wings and articulated
- Fully luminous housing with optimal glare control
- Highly reflective white reflectors maintain uniform lens brightness

Ordering Code



Output

- Specify either 80 or 90 CRI
- Longer lead-time may apply for 90 CRI. Consult factory. 80 CRI = R9≥19 and 90 CRI = R9≥61

 Not all products qualify for DLC listing. For a complete listing of the EV3D products that qualify for DLC, please go to the DLC website.

Custom Output-Lumens OR Wattage

CL	Specify CRI, CCT and desired lumens (i.e. CL8351200)	Specify lumens between standard offering listed below. Lumens are specified per color temp
CW	Specify CBL CCT and desired wattage (i.e. CW94015)	Specify watts between standard offering listed below

80 CRI

940VHO

4000K

Very High 59.3

5761

97.2

OU CITI									
	Color	Output	Watts	Shielding					
				A		W		S	
				Satine Len	s	White Trim		Silver Trim	
				Lumens	LPW	Lumens	LPW	Lumens	LPW
830LO	3000K	Low	17.9	1931	107.9	1742	97.3	1644	91.8
830MO	3000K	Middle	25.9	2881	111.2	2599	100.3	2452	94.7
830HO	3000K	High	36.5	3934	107.8	3548	97.2	3348	91.7
830VHO	3000K	Very High	59.3	5909	99.6	5330	89.9	5029	84.8
835LO	3500K	Low	17.9	1985	110.9	1790	100.0	1689	94.4
835MO	3500K	Middle	25.9	2961	114.3	2671	103.1	2520	97.3
835HO	3500K	High	36.5	4043	110.8	3647	99.9	3441	94.3
835VHO	3500K	Very High	59.3	6073	102.4	5478	92.4	5168	87.2
840LO	4000K	Low	17.9	2107	117.7	1901	106.2	1793	100.2
840MO	4000K	Middle	25.9	3145	121.4	2837	109.5	2676	103.3
840HO	4000K	High	36.5	4287	117.5	3867	105.9	3648	100.0
840VHO	4000K	Very High	59.3	6458	108.9	5825	98.2	5496	92.7
90 CRI									
927LO	2700K	Low	17.9	1610	89.9	1452	81.1	1370	76.5
927MO	2700K	Middle	25.9	2401	92.7	2166	83.6	2044	78.9
927HO	2700K	High	36.5	3279	89.8	2958	81.0	2790	76.4
927VHO	2700K	Very High	59.3	4925	83.1	4443	74.9	4191	70.7
930LO	3000K	Low	17.9	1779	99.4	1605	89.6	1514	84.6
930MO	3000K	Middle	25.9	2654	102.5	2394	92.4	2259	87.2
930HO	3000K	High	36.5	3624	99.3	3269	89.6	3084	84.5
930VHO	3000K	Very High	59.3	5443	91.8	4910	82.8	4632	78.1
935LO	3500K	Low	17.9	1785	99.7	1610	89.9	1519	84.9
935MO	3500K	Middle	25.9	2662	102.8	2401	92.7	2265	87.5
935HO	3500K	High	36.5	3635	99.6	3279	89.8	3093	84.8
935VHO	3500K	Very High	59.3	5460	92.1	4925	83.1	4646	78.4
940LO	4000K	Low	17.9	1880	105.0	1696	94.7	1600	89.4
940MO	4000K	Middle	25.9	2806	108.3	2531	97.7	2388	92.2
940HO	4000K	High	36.5	3825	104.8	3450	94.5	3255	89.2
			1						

Specifications and dimensions subject to change without notice. Specification sheets that appear on pinnacle-ltg.com are the most recent version and supersede all other previously printed or electronic versions. Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 F: 303-322-5568 LU14_LED_SPEC_NOV2021

5196

87.6

4903

82.7



Mounting

- LUCEN is offered with a universal flange for all grid types. See below for fixture placement in relation to the tile for each grid type
 Grid retention clips integral to housing and require mechanical attachment
- Tie off fixture to structure with retention wires
- Refer to installation instructions during installation at the jobsite
- Approved for dry/damp location when PAF is specified
- Maximum fixture weight is 15lbs Surface Mount Box adds 10 lbs

G1	G9	GS	FL	s
1" Grid Mount Works with 15/16" grid ceiling types. See profile for fixture position in relation to ceiling grid and tile.	9/16" Grid Mount Works with 9/16" grid ceiling type. For tegular tile installa- tions, fixture position will not be flush to the bottom of the tile. See tegular tile profile image below.	Screw Slot Mounting Works with screw slot and bolt slot grid ceiling types.	Flange Kit A separate flange kit is supplied for installations into inaccessible or drywall appli- cations. Flange kit ships from factory uninstalled separately from fixture.	Surface Mount Utilize for hard lid ceiling applications. The 20 gauge steel frame easily secures to ceiling. Surface Mount Box adds 10 lbs
Standard Tile	Standard Tile	Tegular Tile		4-5/8" (117.6mm)
Tegular Tile	Tegular Tile			

Voltage

 Some LUCEN configurations will not accommodate all voltage options; consult with factory

U	Universal
1	120 volt
2	277 volt
3	347 volt



pg. 4

Driver

- Standard Driver Option = PL2
 Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
 For more Driver options, see Pinnacle Resource Guide
 Some LUCEN configurations will not accommodate all driver options; consult with factory

0-10V Drivers	
FSD	Factory Select Driver 1%, 0-10v
PL2	Advance Xitanium 1%, 0-10v
PL4	Advance Xitanium 347v 1%, 0-10v, requires 347v
OL2	Osram Optotronic, 1%, 0-10v
OL4	Osram Optotronic 347v, 1% 0-10v (requires 347v)
EE1	eldoLED ECOdrive 1%, 0-10v Logarithmic
EE2	eldoLED ECOdrive 1%, 0-10v Linear
ES1	eldoLED SOLOdrive 0-10v, 0% Logarithmic
ES2	eldoLED SOLOdrive 0-10v, 0% Linear
OL5	Osram Optotronic 1%, 0-10v, AUX
DALI Drivers	
OD1	Osram Optotronic 1%, DEXAL
EE3	eldoLED SOLOdrive .1%, DALI (logarithmic)
EE4	eldoLED SOLOdrive .1%, DALI (linear)
OD2	Osram Optotronic 1%, DALI 2 Channel
Lutron Drivers	S
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1
Alternate Driv	rers
PS1	Signify Advance Xitanium Step Dimming 50%/100%
PR1	Philips Advance Xitanium SR, requires EASYS, VDO or VRF
EH1	ELV 120v only, 0-10v universal
OD1	Osram Optotronic 1%, DEXAL

Circuiting

- Select fixture circuiting from options below
- Some LUCEN configurations will not accommodate all circuiting options; consult with factory

1	Single Circuit
E	Emergency Circuit only (uses nIO EZ PH ER with NLIGHT)
N	Night Light Circuit only

Battery & Emergency

- Select battery or emergency options if required
- Battery duration is 90 minutes

0	No Battery
1P	Bodine 10w Integral, CEC Listed
1IC	lota 10w Integral, CEC Listed
1G	Bodine GTD, Generator Transfer Device
FSG	Factory Select ALCR, Automatic Load Control Relay
GI	lota ETS DR, Emergency Lighting Control Device
GB	Bodine GTD, Emergency Lighting Control Device

- Test button is integral to fixture
- For more Battery options, see Pinnacle Resource Guide

For Approximate Battery Lumen Output

- Multiply battery wattage X fixture LPW shown on Lumen Table
- 10 (watts) x 92.3 (LPW) = 923 battery lumen output

Battery & Emergency Ordering Examples

- Single circuit, 10w integral battery
- Ordering Code: 1-1P
- Emergency circuit only, 10w integral battery Ordering Code: E-1P

Finish

Powder-coat white painted finish on exposed trim

W	White

Fixture Options

Additional options to enhance the fixture and finish of the product

QS	Quick Ship
TW	Through-Wiring
СР	Chicago Plenum
AM	Antimicrobial Paint
AR	Air Return
FW6	Flex Whip 6'
GLR	Internal Fast Blow Fuse
GMF	Internal Slow Blow Fuse
PAF	Paint After Fabrication

Quick Ship

Sh	ielding	Output	Мо	unting	Vol	tage	Drive	er	Ciı	rcuiting	Batt	tery	Fir	nish	Optic	ons
10	10-Day															
A W S	Satine Lens White Rails Silver Rails		G9	1" Grid 9/16" Grid Screw Slot	U 1 2	Universal 120v 277v	PL2 LH1	Factory Select Driver (1%, 0-10v) Advance Xitanium 0-10v, 1% Lutron LDE1 Osram 0-10v, 1%	E	Single Emergency Night Light		Bodine 10w Integral Iota 10w Integral	W	White	FW6	Chicago Plenum Flex Whip 6' 18-gauge Internal Fast- Blow Fuse

Consult Factory for projects that are larger than 200 units.

pg. 6

Controls

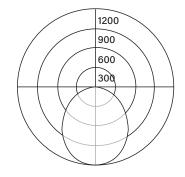
- Pinnacle Lighting offers easy to specify network control solutions that connect to an intelligent centralized system to maximize lighting energy efficiencies or integral sensors for individual fixture control
- Pinnacle Lighting fixtures ship technology ready; commissioning by others
- Controls can only be used with Single Circuit (1) or Emergency Circuit (E)
- · Contact factory for any non-standard configurations for layout, placement, or EM options
- Controls only compatable with Satine Lens.
- Must specify required driver in Driver section

	Solution	Components	Network/Sensor	Connection	Required Drivers	Limitations
DLMFC	Legrand Wattstopper DLM	LMFC-011	Digital Lighting Management (DLM)	Wired, two RJ45 ports	OL2, OL4	Not available with Battery
NLIGHT	Acuity nLight	nIO EZ PH / nIO EZ PH ER	nLight	Wired, two RJ45 ports	EE2, ES2	Not available with 347 volt
DLMFS	Legrand Wattstopper LLLC	LMFS-601-W / LMFI-111	Wireless DLM Fixture Sensor	Wireless	OD1, PR1I or 0-10v	0-10v requires interface
EASYS	Philips EasySense	SNS-210	Daylight/PIR Occupancy	Wireless to switches	PR1	Not available with 347 volt
SNSLM	Encelium Sensilum	EN-CLM-PIR-DD-ZB	Encelium, Daylight/PIR Occupancy	Wireless	OD1, OL5	Not available with 347 volt
WLVX	Eaton WaveLinx	SWPD1, MSP3IVMVDC1	WaveLinx WCL, Daylight	Wireless	Any 0-10v	Not available with 347 volt
VDO	Lutron Vive Sensor	DFCSJ-OEM-OCC	Vive, Daylight/PIR Occupancy	Wireless	OD1, PR1	Not available with 347 volt
VRF	Lutron Vive Connected	DFCSJ-OEM-RF	Vive	Wireless	OD1, PR1	Not available with 347 volt
ENLI	Enlighted IOT	SU-5E-IOT, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt
ENLC	Enlighted Connected Lighting	SU-5E-CL, CU-4E	Enlighted, Daylight/PIR Occupancy	Wireless	Any 0-10v	Not available with 347 volt
ENL2I	Enlighted 2-Wire IOT	KIT-SU-5E-D-IOT	Enlighted, Daylight/PIR Occupancy	Wireless	OD1 or PR1	Not available with 347 volt
ENL2C	Enlighted 2-Wire Connected Lighting	KIT-SU-5E-D-CL	Enlighted, Daylight/PIR Occupancy	Wireless	OD1 OR PR1	Not available with 347 volt

Photometrics

Satine Lens

Test # ITL88926 Catalog # LU14A-840MO Lumens 3145 lm Watts 25.9 W Efficacy 121 LPW



Candela Distribution Horizontal Angle

Angle								
	0	22.5	45	67.5	90			
0	1200	1200	1200	1200	1200			
5	1195	1194	1192	1191	1192			
10	1176	1170	1169	1166	1164			
15	1143	1134	1133	1129	1124			
20	1098	1085	1085	1078	1074			
25	1042	1028	1026	1018	1013			
30	977	960	958	950	945			
35	902	886	883	876	869			
40	821	807	804	797	791			
45	735	724	721	714	708			
50	647	638	635	630	623			
55	556	550	550	543	539			
60	463	462	462	456	454			
65	371	373	375	370	369			
70	279	286	291	288	286			
75	191	202	209	206	205			
80	109	124	130	126	125			
85	42	54	52	49	49			
90	0	0	0	0	0			

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average			
Degrees	0-Deg	45-Deg	90-Deg			
45	3456	3390	3329			
55	3223	3188	3124			
65	2919	2950	2903			
75	2454	2685	2633			
85	1602	1984	1869			

For all available IES files, please visit our website at pinnacle-ltg.com. Photometry testing in accordance to IESNA-LM-79-08 at an NVLAP accredited testing laboratory. Testing conducted at 25°C ambient conditions

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Approvals & Certifications

Construction: Pre-painted formed 22 gauge cold rolled steel housing. Highly reflective die-formed reflectors maintain uniform lens brightness. Wiring access on both sides and top of housing. Housing designed to maintain optimal temperature of LED diodes and driver. Captive door frame swings open for room-side maintenance of lens, driver and LED boards.

Shielding: Single piece extruded diffuse lens with convex wings and articulated center spine creating a fully luminous housing with optimal glare control. Available with standard satine lens or optional white or silver lens side rails.

Mounting: Designed to install into acoustical grid and inaccessible ceilings. Specify G1, G9 or GS for acoustical grid ceiling. Specify FL for inaccessible ceilings. Grid retention clips integral to housing and require mechanical attachment. Tie off fixture to structure with retention wires. Maximum fixture weight is 15 lbs - Surface Mount Box adds 10 lbs.

LED: 25°C test environment. Lumen output/wattage has a margin of +/- 5%. All luminaire configurations tested in accordance with IES LM-79. Diodes tested in accordance with IES LM-80. Lifetime calculated using IES TM-21. Minimum lifetime greater than 60,000 hours. L70 = 123,100 hours and L90 = 36,700 hours. MacAdam 3-Step Ellipses. Not all products are lighting facts listed. For all available IES files, please visit our website at pinnacle-Itg. com.

Color & Lumen Output: Four lumen packages available. Low (LO), Medium (MO), High (HO) and Very High (VHO). Custom outputs are available. Specify custom lumens or watts between standard offering listed on CRI, CCT & Output page. 80 CRI is available for 3000K, 3500K, and 4000K. 90 CRI is available for 2700K, 3000K, 3500K, and 4000K. 80 CRI = R9≥19 and 90 CRI = R9≥61.

Voltage: Universal (U), 120 volt (1), 277 volt (2) and 347 volt (3) options available. Must specify OL4 in Driver section when 347 volt (3) is selected. Some LUCEN configurations will not accommodate all voltage options; consult with factory.

Driver: Standard Driver Option is Advance Xitanium 0-10V, 1% = PL2. Electronic driver, Power factor is >0.9 with a THD <20%. Driver Lifetime: 50,000 hours at 25°C ambient operating conditions. Ambient operating range: -20°F/-30°C to 91°F/33°C. For more driver options, see Pinnacle Resource Guide. Some LUCEN configurations will not accommodate all driver options.

Circuiting: Select from single circuit (1), Emergency circuit (E) or Night Light circuit (N). Some LUCEN configurations will not accommodate all circuiting options, consult with factory.

Battery & Emergency: Select battery or emergency options if required. If battery or emergency option is not required, enter 0. Battery duration is 90 minutes as standard. Test button is integral to fixture. For more Battery options, see Pinnacle Resource Guide.

Finish: Pre-painted white polyester polymer finish on exposed trim. Optional Paint After Fabrication (PAF) available if specified in Options section of part number.

Controls: DLM utilizes wired network connections for digital control through switching and dimming. nLight Air rES7 sensor provides wireless control, daylight harvesting and occupancy detection with PIR or PDT using eldoLED LED drivers. EasySenses sensor provides daylight harvesting and PIR occupancy detection using the SR LED driver; the Philips app provides advanced configurations. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL driver. ENCELIUM SensiLUM sensor provides wireless control, daylight harvesting and PIR occupancy; driver data is available when using the DEXAL driver. WaveLinx Connected Lighting sensor provides wireless control and daylight harvesting using 0-10V LED drivers. Lutron Vive sensor provides wireless control, daylight harvesting and PIR occupancy detection using DEXAL or SR LED drivers. Lutron Vive module provides wireless control using DEXAL or SR LED drivers.

Labels: UL and cUL Listed. LO, MO, and HO lumen packages are IC Rated. Pre-painted fixtures are to be used in dry locations only. For damp location, must specify Paint After Fabrication (PAF) in the Options section of the luminaire.

Fixture Weight: 15 lbs maximum - Surface Mount Box adds 10 lbs.

Buy American Act Compliant

Warranty: LUCEN LED offered with a 5-year limited warranty. Covers LED, driver and fixture.