Р CLE RCHITECTURAL LIGHTING

Project Name _

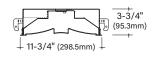
Date ____

_ Туре ___



LUCEN LU14

1x4 Architectural Recessed



Key Features

- 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
- Maximum fixture weight is 15 lbs Surface Mount Box adds 10 lbs
- Room-Side Maintenance for LED system
- Indigo-Clean available, see Indigo-Clean specification sheets for details



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

LU14	NTING VOLTAGE DRIVER CIRCUITING	BATTERY & FINISH FIXTURE CON EMERGENCY OPTIONS	TROLS
			-
SHIELDING	SOURCE QS_1	MOUNTING	VOLTAGE
A - Satine Lens QS, W - White Rails QS, S - Silver Rails QS, Shielding pg. 2	_27 2700K _30 3000K _35 3500K _40 4000K CL Custom Lumens CW Custom Watts MOD - Mod options available <i>Lumen Output pg. 2</i>	G1 - 15/16" Grid QS_{\star} G9 - 9/16" Grid QS_{\star} GS - Screw Slot Grid QS_{\star} 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 PL2 - Advance Xitanium (1%, 0-10v) Q OL2 - eldoLED Optotronic (1%, 0-10v) Q OL4 - eldoLED Optotronic 347v (1%, 0-10v) EE1 - eldoLED ECOdrive (1%, 0-10v) ES1 - eldoLED ECOdrive (0.1%, 0-10v) LH1 - Lutron Hi-lume (1%, <i>EcoSystem</i>) PR1 - Advance Xitanium SR MOD - Mod options available <i>Driver pg. 4</i>	 1 - Single Circuit QS, E - Emergency QS, (entire fixture) N - Night Light QS, (entire fixture) Circuiting pg. 4 	0 - None Q_{s}^{S} FSB - Factory Select Battery Q_{s}^{S} FSG - Factory Select ALCR GI - lota ETS DR GB - Bodine GTD 1IC - lota 10W, CEC Listed Q_{s}^{S} 1P - Bodine 10W Q_{s}^{S} <i>Battery and Emergency pg. 4</i>	W - White QS_ MOD - Mod options available Finish pg. 5
FIXTURE OPTIONS ²	CONTROLS ³		
QS - QuickShip Q , TW - Through-wiring CP - Chicago Plenum Q , AM - Antimicrobial Paint FW6 - 6' Flex Whip Q , GLR - Fast Blow Fusing Q , GMF - Slow Blow Fusing BA - Buy American Act Compliant DSP - Customer Supplied Battery/Driver/ Sensor MOD - Mod options available Fixture Options pg. 5	DLMFC - Wattstopper DLM (wired) DLMFS - Wattstopper LLLC (wireless) EASYS - Philips EasySense (wireless) SNSLM - Encelium Sensilum (wireless) WVLX - Eaton WaveLinx (wireless) VDO - Lutron Vive Sensor (wireless) VRF - Lutron Vive Connected (wireless) ENL - Enlighted, "C" Connected Lighting or "I ENL2 - Enlighted 2-Wire, "C" Connected Light MOD - Mod options available Control Options pg. 6		

¹When specifying SOURCE the first _ is for specifying either 8 - 80CRI, 9 - 90CRI. The ending _ _ are for specifying output, example HO - High Output. See output charts for more information. ²If specifying QS, QS must be used in fixture options section of part number to qualify. ³Controls can only be used with Single Circuit (1) or Emergency Circuit (E). See Controls chart on page 5 for driver options and more information

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Shielding

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

Ordering Code

Satine Lens

A



Output

Specify either 80 or 90 CRI

Longer lead-time may apply for 90 CRI. Consult factory.

90 CRI = R9≥50

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 CRI, CCT and desired wattage (i.e. CW94015)
 Specify watts between standard offering listed below

80 CRI Color Output Watts Shielding w S А Satine Lens White Trim Silver Trim Lumens I PW Lumens I PW Lumens IPW 91.8 17.9 830LO 3000K Low 1931 107.9 1742 97.3 1644 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 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 4043 3500K High 36.5 110.8 3647 99.9 3441 94.3 840LO 2107 117.7 1901 106.2 1793 100.2 4000K Low 17.9 840MO 4000K Middle 25.9 3145 121.4 2837 109.5 2676 103.3 840HO 4000K 4287 117.5 3867 105.9 3648 100.0 High 36.5

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
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
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
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

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LUCEN LU14 Architectural Recessed

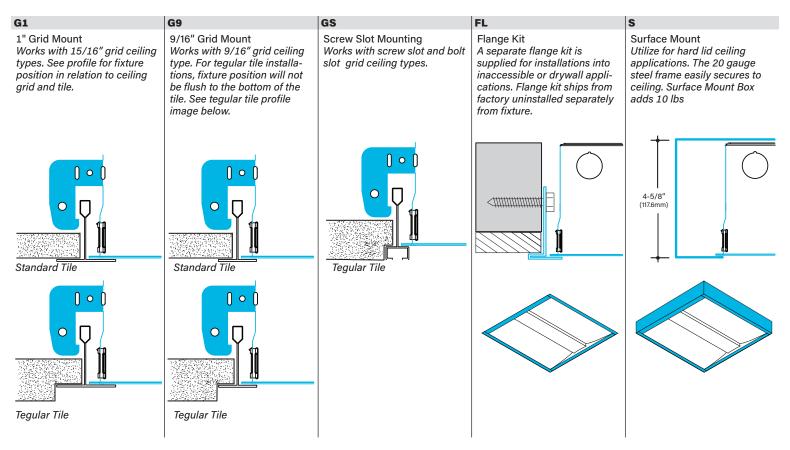
Direct Source: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for MOD specification details, pricing, and lead-time information

_		Required Driver	Required Control
	Color Changing RGB LED	EC1/EC4	DMX
MOD	Color Changing RGB-W LED	EC1/EC4	DMX
mob	2 Channel Tunable White		
	Dynamic BIOS		

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
- . Maximum fixture weight is 15lbs - Surface Mount Box adds 10 lbs



Voltage

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

U	Universal
1	120 volt
2	277 volt
3	347 volt



Driver

- Standard Driver Option = FSD
- Driver Lifetime: 50,000 hours at 25°C ambient operating conditions
- For more Driver options, see Pinnacle Resource Guide

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	eldoLED Optotronic, 1%, 0-10v		
OL4	eldoLED 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, 0.1% Logarithmic		
ES2	eldoLED SOLOdrive 0-10v, 0% Linear		
OL5	eldoLED Optotronic 1%, 0-10v, AUX		
PL5	Advance Xitanium 1%, 0-10v, AUX		
DALI Drivers			
EE3	eldoLED ECOdrive .1%, DALI (logarithmic)		
ES3	eldoLED SOLOdrive .1%, DALI (logarithmic)		
OD1	eldoLED Optotronic 1%, DEXAL		
Lutron Drivers	S		
LH1	Lutron Hi-lume Soft-on, Fade-to-black 1%, EcoSystem, LDE1		
Alternate Driv	iers		
PS1	Signify Advance Xitanium Step Dimming 50%/100%		
PR1	Philips Advance Xitanium SR, requires EASYS, VDO or VRF		
OD1	eldoLED Optotronic 1%, DEXAL		
EH1	ELV 120v only, 0-10v universal		

Driver: MOD Options

- Specify MOD in the part number for any of the below options
 Consult factory for MOD specification details, pricing, and lead-time information

MOD

Power Over Ethernet

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		
FSB	Factory Select Battery (10w option)		
FSBST	Factory Select Battery (10w, Self Testing)		
FSG	Factory Select Automatic Load Control Relay (ALCR), UNV		
GI	Emergency Transfer Switch (ETS) DR Emergency Control Device, UNV		
GB	Bodine GTD, Generator Transfer Device, 120v or 277v		
1IC	lota 10w Integral		
1ILL	lota 10w Integral Lithium, Self Testing		
1IRH	lota 20w Remote		
1P	Bodine 10w Integral		
1PRH	Bodine 20w Remote		
1PLL	Bodine 10w Integral Lithium, Self Testing		

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

For Approximate Battery Lumen Output

For more Battery options, see Pinnacle Resource Guide

Test button is integral to fixture

- 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 Cod
 Emergency circuit only, 10w integral battery 	Ordering Cod

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le: 1-1P le: E-1P

Finish

Powder-coat white painted finish

White W

Finish: MOD Options

- Specify **MOD** in the part number for any of the below options
- Consult factory for MOD specification details, pricing, and lead-time information

	Wood Grain
	Acoustic
	Metallic Silver
MOD	Textured Black
	Bronze
	Graphite
	Custom Color

Fixture Options

Additional options to enhance the fixture and finish of the product

QS	Quick Ship	
тw	Through-Wiring	
СР	Chicago Plenum	
АМ	Antimicrobial Paint	
AR	Air Return	
FW6	Flex Whip 6'	
GLR	Internal Fast Blow Fuse	
GMF	Internal Slow Blow Fuse	
BA	Buy American Act Compliant	
DSP	Customer Supplied Battery/Driver/Sensor	

Fixture Options: MOD Options

Specify **MOD** in the part number for any of the below options
Consult factory for **MOD** specification details, pricing, and lead-time information

MOD	Remote Driver
WOD	End Power Feed

Quick Ship

:	Shi	elding	Output	Мо	unting	Vol	tage	Drive	er	Ci	rcuiting	Batte	ery	Fir	nish	Optic	ons
		Day		01	410.1		11.1.1.1.1	500		4		500	E. I. O	147	34/L 11	0.0	
	w	Satine Lens White Rails Silver Rails	80 CRI, All color temperatures, all lumen packages <i>See pg 4</i>	G9		U 1 2	120v		Factory Select Driver (1%, 0-10v) Advance Xitanium 0-10v, 1%	1 E N	Single Emergency Night Light		Factory Se- lect Battery Bodine 10w Integral	w	White		Chicago Plenum Flex Whip 6' 18-gauge
			500 pg 4		Clot			OL2	Osram 0-10v, 1%			1IC	lota 10w Integral			GLR	Internal Fast- Blow Fuse

Consult Factory for projects that are larger than 200 units.

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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 compatible 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
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

Controls: MOD Options

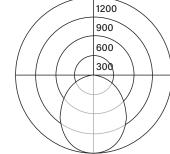
- Specify $\ensuremath{\textbf{MOD}}$ in the part number for any of the below options Control Options may require specific driver. Refer to the chart below
- · Consult factory for MOD specification details, pricing, and lead-time information

		Required Driver
MOD	Encelium Sensilum	OD1, OL5
MOD	Acuity nLight Air Wireless Connected	EE6, ES6

Photometrics

Satine Lens

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



Vert Angle	Horizontal 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	

Candela Distribution

Luminance Data (cd/sq.m)

Angle	In Avera	ge Averag	je Average
Degre	es 0-Deg	45-De	g 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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LUCEN LU14 Architectural Recessed



Approvals & Certifications

Construction: 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%. 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: Three lumen packages available. Low (LO), Medium (MO), and High (HO). 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. 90 CRI = R9≥50.

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: Powder coat white painted finish

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. EasySense 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 1598 listed. LO, MO and HO lumen packages are IC Rated, approved for dry/damp location unless otherwise noted.

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

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