UNAMI
MENTORED BY LUMENFOCUS

LED

PLR 14 LED Lay-In Retrofit Kit

Features:
• High performance LED technology
• 0-10V dimming drivers standard
• Field replaceable LED boards and drivers
• Frosted diffuser optimized to balance efficiency and aesthetics
• Available in a wide variety of lumen outputs for maximum flexibility
• Quick and easy installation helps save on labor costs

Applications:
Suitable for most commercial and institutional applications
• Office
• Retail
• Classrooms
• Healthcare Facilities

Predicted L70 Lifetime:
• Up to 189,000 hrs (calculated)
(L70 information for specific configurations available upon request)
• For BAA compliant configurations - up to 189,000 hrs (calculated)

Construction:
• Die-formed heavy-gauge cold rolled steel ballast housing with precision brake formed aluminum LED tray
• Frosted Acrylic Diffuser
• white enamel finish

Certifications:
• UL 1598 listed for US and Canada, suitable for damp locations
• DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) http://designlights.org/

Warranty:
• 5 year limited system warranty see www.UnamiLighting.com for complete warranty terms and conditions
• 10 year warranty option available on specific models
(Not available on all models. Certain conditions apply. Consult factory or sales representative for details.)

10 YEAR EXTENDED WARRANTY AVAILABLE ON CERTAIN MODELS

DLC QPL LISTED   DLC QPL LISTED PREMIUM   c UL US

ASSEMBLED in the USA
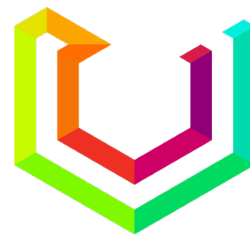
Powered by:

Universal Lighting Technologies

EVERLINE LED Technology

Ordering Guide:

example: PLR 14 MD UV FA 835-ES2SR

Series	Size	Output	Voltage	Shielding	CRI/CCT	-	Options
PLR	*14*			*FA*		-	
PLR	14	SL VL LW MD HI	UV 34	FA	830 835 840 850		Blank EXT10 SD ES2SR ES3SR EM1 F SM LVL BAA

Accessories *(Order separately)*:
SDT(347V) - 347V to 277V Step Down Transformer

Size: 14   1'x4'

Lumen Output:
SL   Super Low
VL   Very Low
LW   Low
MD   Medium
HI   High

Voltage: UV   120-277V
34   347V

Shielding: FA   Frosted Acrylic Diffuser

CRI/CCT:
830   80 CRI / 3000K
835   80 CRI / 3500K
840   80 CRI / 4000K
850   80 CRI / 5000K

Options:
Blank   None
EXT10   10 yr extended warranty
(Not available on all models. Certain conditions apply. Consult factory or sales representative for details.)
SD   Step Dimming
ES2SR   Philips EasySense Occupancy/Daylight sensor with advanced grouping *(120-277V only)*
ES3SR   Philips EasySense Occupancy/Daylight sensor for Zigbee networks *(120-277V only)*
EM1   Emergency Pack - 12W, 1200 nominal lumen output *(120-277V / 0°C-50°C ambient)*
F   Fuse
SM   Easy Access Side Mounted Driver
LVL   0-10V Dimming Leads for Easy Field Access
BAA   Buy American Act Compliant

Schematic:

47.750   11.810   2.380

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880 Facet Rd.
Henderson, NC 27537
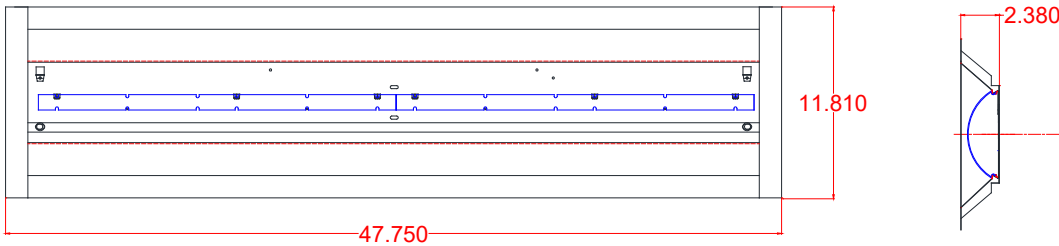
Performance Chart:

Catalog #	QPL/UL Reference #	Watts	Lumens (830)	LPW (830)	Lumens (835)	LPW (835)	Lumens (840)	LPW (840)	Lumens (850)	LPW (850)
PLR 14 SL UV FA xxx	FFR 14 SL UV FA xxx	18	2238	125.7	2275	127.8	2350	132.0	2421	136.0
PLR 14 VL UV FA xxx	FFR 14 VL UV FA xxx	24	2939	121.5	2988	123.5	3087	127.5	3179	131.4
PLR 14 LW UV FA xxx	FFR 14 LW UV FA xxx	28	3663	130.8	3741	133.6	3864	138.0	3980	142.2
PLR 14 MD UV FA xxx	FFR 14 MD UV FA xxx	36	4489	124.7	4570	126.9	4721	131.1	4862	135.1
PLR 14 HI UV FA xxx	FFR 14 HI UV FA xxx	49	6023	122.3	6124	124.3	6327	128.4	6516	132.3

PLR 14 SL UV FA 830
Test No.: LLIA000691-004
Luminaire Lumens: 2,238 lm
Luminaire Watts: 17.8W
Efficacy: 125.7 LPW
Spacing Criterion (0-180): 1.24
Spacing Criterion (90-270): 1.30

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2920	3174	3315
55	2592	3012	3183
65	2177	2721	2251
75	1704	1757	929
85	1177	800	539
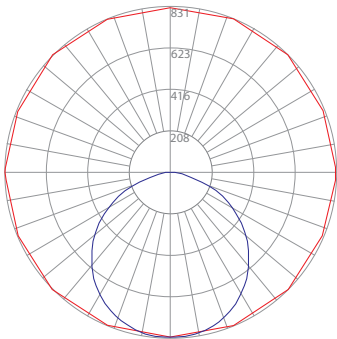
Coefficients Of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

RC		80				70				50			30		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08

— Vert. Plane
— Horiz. Cone

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	303.48	13.60
0-30	645.32	28.80
0-40	1056.79	47.20
0-60	1852.02	82.80
0-80	2214.41	99.00
0-90	2237.67	100.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
0-180	2237.67	100.00

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Installation Instructions:

1) Turn off power to luminaire, remove all fluorescent components, dispose of properly.

2) Insert endcaps between ceiling grid and troffer.

3) Slide LED panel between grid and troffer, fasten with provided quarter turns.

4) Connect LED panel with provided disconnect. Insert blank side panel between grid and troffer, fasten with provided quarter turns.

5) Insert lens material into track, turn on power.


5 min.

Total Install time: less than 5 minutes!

PLR available with Philips EasySense Sensors:

- Simple, cost effective way to add controls to every luminaire in order to maximize energy savings and address code-compliancy strategies
- Occupancy sensing, daylight harvesting, and task tuning in one devise
- Reduces installation time and eliminates the need to wire sensors outside the fixture in the ceiling
- Title 20 compliant
- Enables auto-off/manual-on and auto-off/partial-on application
- Easy field configuration from floor via smartphone with Easysense App
- Factory can pre-set max light levels

ES2SR (EasySense Fixture-Mount Sensor SNS200 with Philips SR Xitanium driver)

- Independent per-fixture control: Occupancy, Daylight Harvesting, Task Tuning
- Occupancy Sharing
    - Fixtures within a group can be programmed to remain at prescribed light levels so long as occupancy is detected anywhere in the group
- Scene Setting
- Advanced grouping to Illumra #ZBT-S2AWH wireless wall switch
    - Dual Rocker Self-Powered Light Switch
    - Up to 40 sensors can be grouped to a single switch
    - Functions: On/Off, Dim-Up/Dim-Down, Scene 1, Scene 2
- DLC listed

On/Dim-Up

Scene 1 (Default 60% "On")

Off/Dim-Down

Scene 2 (Default 20% "On")
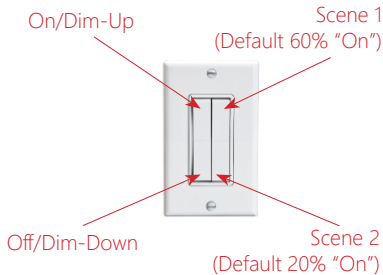
ES3SR (EasySense Fixture-Mount Sensor for Networks SNS300 with Philips SR Xitanium driver)

- Occupancy & daylight sensing in one device
- Designed for applications with centralized lighting control through Zigbee wireless technology
    - Compatible with qualified third-party lighting control systems or building management systems (BMS)
    - Provides a simple solution to actively manage and control energy usage, while remotely adjusting light settings and determining service needs
    - Provides fixture-specific information into networks for centralized control and enables functionality such as energy monitoring, scheduling, and load shedding.
    - **Note:** SNS300 does not provide stand-alone operation based on occupancy or daylight. Status is provided to the network system for centralized control and command.

Detection Area:
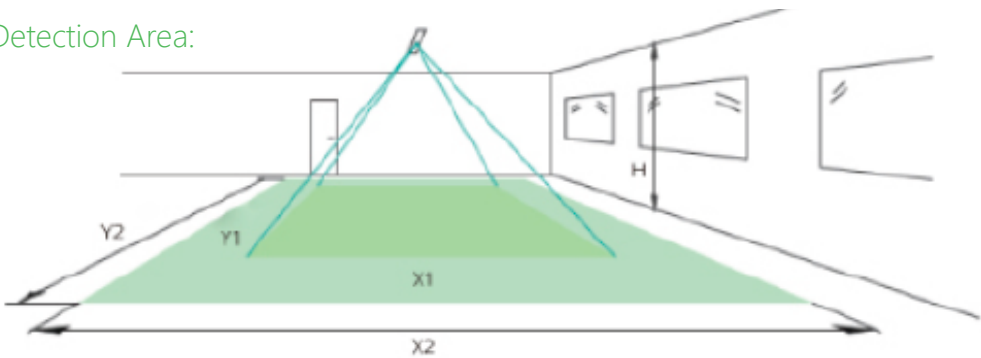
Height	Minor Movement		Major Movement	
H	X1	Y1	X2	Y2
10'	12'	9'	18'	12'

Longer dimension of detection area (X1, X2) is parallel to longer dimension of EasySense

- Minor movement (person moving ≤ 3.0' per second)
- Major movement (person moving ≥ 3.0' per second)