

2x4 Panel Light Series



ProLED® 2x4 Panel Lights are energy efficient alternatives – only 45W delivering up to 4600 lumens – to Linear Fluorescent recessed fixtures. Our direct backlit design coupled with superior LED technology delivers consistent color and CRI for uniform illumination and improved lumen maintenance for long useful rated life. ProLED 2x4 Panel Lights offer 0-10V dimming standard with low voltage leads supplied in the driver housing. Applications include offices, conference rooms, hallways, schools, healthcare, hospitality and retail. ProLED Panel Light Series is backed by a 5-Year Warranty.

Performance Specifications

CRI _____	82	Min. Start Temp. _____	-40°C (-40°F)
Rated Life* _____	50,000 hour life	Max. Operating Temp. _____	40°C (104°F)
Watt _____	45W	Power Factor _____	>90%
Lumens _____	4400 (3500K), 4500 (4000K), 4600 (5000K)	THD _____	<20%
Lumens per Watt (LPW) _____	98 (3500K), 100 (4000K), 102 (5000K)	Warranty _____	5-year Limited
Input Line Voltage _____	120-277V	Control _____	0-10V Dimmable
Input Line Frequency _____	50/60 Hz	Weight _____	17.6 lbs.

Energy Savings

System	Ballast Factor	System Wattage	Replacement LED	Wattage	Energy Savings
4 Lamp F32T8	0.88	112	24PNL45/8XX/LED	45	59.8%

Construction

- Direct backlit design for uniform light distribution
- Premium milk white lens for smooth, even light distribution
- Powder coated, stamped steel housing
- Multi-position driver housing can be mounted on the back of the luminaire for typical installs, or on the side if plenum space height is limited
- Remote driver enclosure with multiple 3/4" knockouts for easy access
- Lightweight 17.6 lbs. construction
- Rated for dry locations
- Rated for non-IC applications

Installation

- Fast access terminal block for easy thru-wire
- Designed for recessed installation in suspended T-grid ceilings
- Multi-position driver housing with 12" flexible cord
- Lay in or suspended mounting

Electrical

- ETL listed
- 120V-277V input range
- 50/60 Hz input frequency
- 0 -10V dimming standard**
- Power Factor >90%
- 0.46A @ 120V / 0.20A @ 277V

* It is recommended that no more than 20 fixtures be installed per dimming circuit, and that the fixtures are located no more than 60 feet apart. This load quantity may vary based on the dimming system used.

Ordering Information

Watt	Product #	Product Code	Volts	Color Temp.	CRI	Lumen Output	Useful Life*	Beam Spread	Dimmable	DLC Qualified	Equivalent Wattage
45	80942	24PNL45/835/LED	120~277V	3500K	82	4400	50,000	120°	0-10V	Yes	(4) 32W
45	80943	24PNL45/840/LED	120~277V	4000K	82	4500	50,000	120°	0-10V	Yes	(4) 32W
45	80944	24PNL45/850/LED	120~277V	5000K	82	4600	50,000	120°	0-10V	Yes	(4) 32W

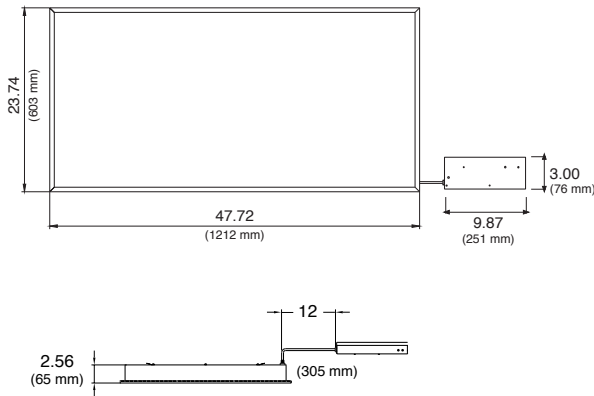
* Useful Life is defined as the point in time at which the lamp will maintain at least 70% of its initial lumens. The lamp will continue to operate past this point at decreased light levels.

**May not be compatible with all dimming systems, dimming performance may vary by system.

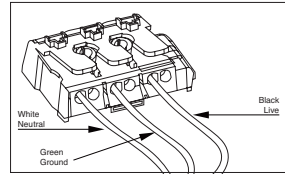
*** Check the latest update at www.DesignLights.org for listed product catalog numbers. Not all versions are listed.



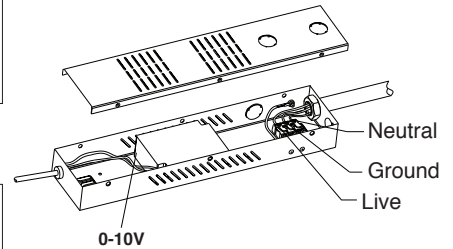
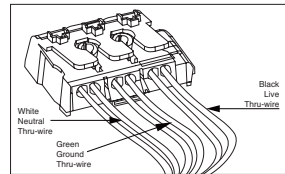
Dimensions



Wiring Diagram

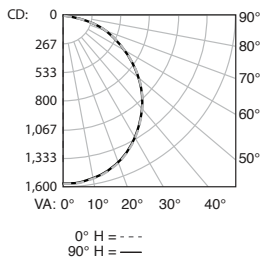


Thru-wire



Photometrics

80942, 24PNL45/835/LED



Coefficients of Utilization-Zonal Cavity Method Effective Floor Cavity Reflectance: 20

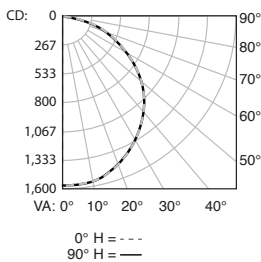
RC	80				70				50			
	RW	70	50	30	0	70	50	30	0	50	30	20
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	
1	1.08	1.04	.99	.96	1.06	1.01	.97	.84	.97	.94	.91	
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.79	.75	
3	.90	.79	.71	.65	.87	.78	.70	.60	.75	.68	.63	
4	.82	.70	.61	.55	.80	.69	.61	.52	.66	.59	.53	
5	.76	.63	.54	.47	.73	.62	.53	.45	.59	.52	.46	
6	.70	.56	.47	.41	.68	.55	.47	.39	.54	.46	.40	
7	.65	.51	.42	.36	.63	.50	.42	.35	.49	.41	.36	
8	.60	.47	.38	.32	.59	.46	.38	.31	.45	.37	.32	
9	.56	.43	.35	.29	.55	.42	.34	.28	.41	.34	.29	
10	.53	.40	.32	.26	.51	.39	.31	.26	.38	.31	.26	

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1,220.6	27.3%	27.3%
0-40	1,994.3	44.5%	44.6%
0-60	3,515.7	78.5%	78.6%
60-90	934.3	20.9%	20.9%
70-100	392.4	8.8%	8.8%
90-120	9.5	0.2%	0.2%
0-90	4,450.0	99.4%	99.5%
90-180	23.5	0.5%	0.5%
0-180	4,473.5	99.9%	100%

Total Luminaire Efficiency = 100.00%

80943, 24PNL45/840/LED



Coefficients of Utilization-Zonal Cavity Method Effective Floor Cavity Reflectance: 20

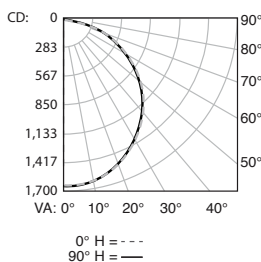
RC	80				70				50			
	RW	70	50	30	0	70	50	30	0	50	30	20
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.84	.97	.94	.91	
2	.99	.90	.84	.78	.96	.89	.82	.71	.85	.80	.75	
3	.90	.79	.71	.65	.87	.78	.70	.60	.75	.68	.63	
4	.82	.70	.62	.55	.80	.69	.61	.52	.66	.59	.54	
5	.76	.63	.54	.47	.74	.62	.53	.45	.59	.52	.46	
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	
7	.65	.51	.42	.36	.63	.50	.42	.35	.49	.41	.36	
8	.60	.47	.38	.32	.59	.46	.38	.31	.45	.37	.32	
9	.56	.43	.35	.29	.55	.42	.34	.28	.41	.34	.29	
10	.53	.40	.32	.26	.52	.39	.31	.26	.38	.31	.26	

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1,232	27.4	27.4%
0-40	2,012	44.7	44.8%
0-60	3,547	78.8	78.9%
60-90	932	20.7	20.7%
70-100	386	8.6	8.6%
90-120	6	0.1	0.1%
0-90	4,479	99.59	99.6%
90-180	16	0.4	0.4%
0-180	4,495	99.9	100%

Total Luminaire Efficiency = 100.00%

80944, 24PNL45/850/LED



Coefficients of Utilization-Zonal Cavity Method Effective Floor Cavity Reflectance: 20

RC	80				70				50			
	RW	70	50	30	0	70	50	30	0	50	30	20
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	
1	1.09	1.04	1.00	.96	1.06	1.01	.98	.84	.97	.94	.91	
2	.99	.90	.84	.78	.96	.88	.82	.71	.85	.80	.75	
3	.90	.79	.71	.65	.87	.78	.70	.60	.75	.68	.63	
4	.82	.70	.61	.55	.80	.69	.61	.52	.66	.59	.54	
5	.76	.63	.54	.47	.74	.62	.53	.45	.59	.52	.46	
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	
7	.65	.51	.42	.36	.63	.50	.42	.35	.49	.41	.36	
8	.60	.47	.38	.32	.59	.46	.38	.31	.45	.37	.32	
9	.56	.43	.35	.29	.55	.42	.34	.28	.41	.34	.29	
10	.53	.40	.32	.26	.51	.39	.31	.26	.38	.31	.26	

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1,280.1	27.4%	27.4%
0-40	2,090.8	44.7%	44.7%
0-60	3,683.8	78.7%	78.8%
60-90	973.2	20.8%	20.8%
70-100	406.3	8.7%	8.7%
90-120	7.0	0.1%	0.1%
0-90	4,657.0	99.5%	99.6%
90-180	17.1	0.4%	0.4%
0-180	4,674.1	99.9%	100%

Total Luminaire Efficiency = 100.00%