

PORTOR
LIGHTING

PT-LSFA
Series LED
Linear Strip
Field
Adjustable
Luminaire



PORTOR LIGHTING PT-LSFA Series LED Linear Strip Field Adjustable Luminaire Owner's Manual

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PORTOR
LIGHTING

PORTOR LIGHTING PT-LSFA Series LED Linear Strip Field Adjustable Luminaire



Specifications

- **Catalog Number:** PT-LSFA SERIES
- **Project Name:** LED Linear Strip Field-Adjustable Luminaire
- **Construction:** Matte white finish, galvanized housing
- **Optical System:** Universal Voltage driver (120V-277V), high-efficient LED package
- **Lens:** Frosted lens diffuser
- **Energy Savings:** Over 50% compared to fluorescent fixtures
- **Listing:** UL Listed, DLC Premium Listed
- **Warranty:** 5-year Limited Warranty, Rated for 50,000 hours

Product Usage Instructions

Mounting and Installation

The luminaire is suitable for surface mounting using the provided kit. Follow these steps for installation:

1. Identify the mounting location ensuring it is suitable for the luminaire's purpose.
2. Use the T-bar mounting holes for easy installation.
3. Select the appropriate wattage setting using the field-adjustable wattage selector.
4. Connect the luminaire to the power source following electrical safety guidelines.

Dimming and Sensors

The luminaire supports 0-10V dimming and can be equipped with motion sensors or daylight harvesting sensors. Follow these steps for sensor installation:

1. If adding a sensor, ensure it is compatible with the luminaire.
2. Consult the factory installation guide for motion sensor or daylight harvesting sensor integration.

Maintenance and Care

To ensure optimal performance and longevity of the luminaire:

- Regularly clean the frosted lens diffuser to maintain light output quality.
- Check for any loose connections or damage that may affect operation.
- Refer to the warranty documentation for any issues covered under warranty.

Frequently Asked Questions

Q: What is the warranty period for the luminaire?

A: The luminaire comes with a 5-year Limited Warranty and is rated for 50,000 hours of use. Refer to the warranty documentation for specific details.

Q: Can I adjust the wattage of the luminaire?

A: Yes, the luminaire features a field-adjustable wattage selector allowing you to choose between different wattage settings for energy efficiency.

DESCRIPTION

The LSFA series is a slim, light weight and energy efficient luminaire that is equipped with 0-10V dimming capability and a field-adjustable wattage selector.

The fixture includes standard surface mounting kit excellent for utility applications such as parking garage, warehouse, hallway, storage facility, restrooms and stairwell.

CONSTRUCTION

The luminaire features matte white finish and galvanized housing. T-bar mounting hole make it easy for installation, and multiple knock-outs provide options for occupancy sensor.

OPTICAL SYSTEM

Luminaire is built with the highest quality driver that is Universal Voltage (120V-277V), uses long lasting, high-efficient LED package.

LENS

Frosted lens diffuser reduces glare and improves overall light output.

SENSOR READY

Motion sensor and daylight harvesting sensor available, can do factory installation.

ENERGY SAVINGS

Over 50% energy savings than traditionally fluorescent fixtures, low heat productions requires less maintenance and operation cost.

LISTING

UL Listed, DLC Premium Listed

WARRANTY

5 year Limited Warranty, Rated for 50,000 hours.

See Warranty documentation for details.



WATTAGE	DELIVERED LUMENS	EFFICACY
4' 25W/30W/40W	5440 @ 4000K	136 lm/W
8' 55W/60W/65W	8580 @ 4000K	132 lm/W

Based on the highest wattage @ 4000K default setting, 80 CRI. Actual lumens may vary.

TECHNICAL SPECIFICATION

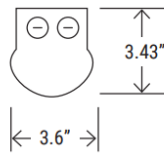
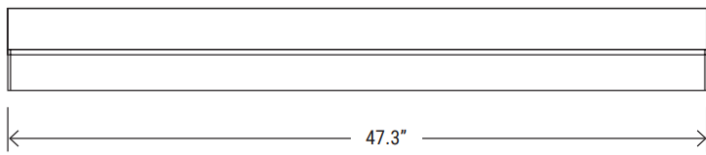
CCT	4000K, 5000K
CRI	80+
DIMMABLE	0-10V dimming
BEAM ANGLE	120°
VOLTAGE	120V-277V
POWER FREQUENCY	50/60 Hz
POWER FACTOR	>0.9
THD	≤10%
WORKING TEMPERATURE	-40°F ~ 122°F
STORAGE TEMPERATURE	-40°F ~ 158°F
IP RATING	IP44, Suitable for damp locations
WARRANTY	5 year limited

ORDERING SAMPLE:

Series	Wattage	CCT
PT-LSFA LED Linear Strip Field-Adjustable	4FT (4-footer)	40K (4000K) 50K (5000K)
	8FT (8-footer)	40K (4000K) 50K (5000K)

Accessories/Options		
EM Battery	Sensor	Mounting
_ Blank PT-EMN-08W-050 PT-EM N-15W-050	_ Blank PT-UNI2-SP-PR ELB-UNI (Required) MSH-RC2 PT-UNI-35-NDP ELB-UNI-35 (Required) MSS-RC-100	_ Blank (Standard surface mount) A-CBL CON-LSFA

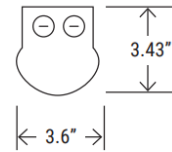
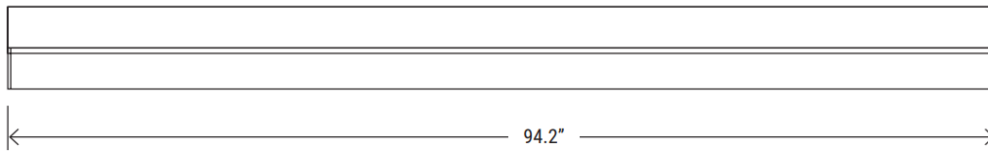
DIMENSION



QTY/BOX
6

4'

PT-LSFA Series



QTY/BOX
4

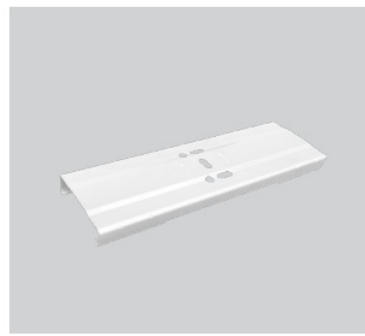
8'

PT-LSFA Series

MOUNTING OPTION



SM
Surface mount (Standard)
Comes with j-box cover



CON-LSFA
Connector



A-CBL
Hanging wire for strip light

EM BATTERY OPTION



SENSOR OPTION



PT-UNI2-SP-PR
Dimmable PIR
Motion Sensor
with Daylight
Harvesting

ELB-UNI
Elbow for
UNI2-SP-PR
(Required)



MSH-RC2
Intelligent
Control Unit



PT-UNI35-NDP
Dimmable PIR
Motion Sensor

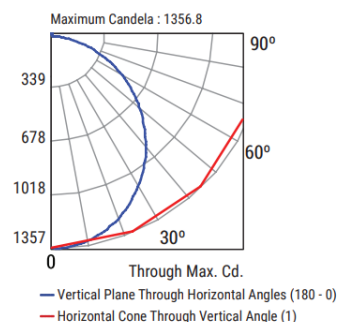
ELB-UNI-35
Elbow for
UNI-35-NDP
(Required)



MSS-RC-100
Intelligent
Control Unit

PHOTOMETRY

PT-LSFA-4FT	Wattage: 40W	Delivered lumens: 5148	Efficacy: 132 lm/W	CCT: 3500K	CRI: 80
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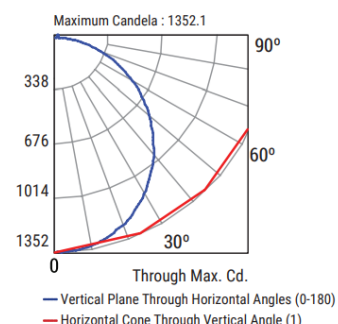


Coefficients of Utilization												
pfc												
ccc	80%				70%				50%			
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	
RCR	0	116	116	116	116	112	112	112	112	105	105	105
	1	104	98	93	88	100	94	90	85	88	84	81
	2	93	84	76	70	90	81	74	68	76	66	62
	3	85	73	64	57	81	71	63	56	66	59	53
	4	77	64	55	48	74	62	54	47	58	41	45
	5	71	57	48	41	68	55	47	40	52	44	39
	6	65	51	42	35	63	50	41	35	47	39	34
	7	60	46	37	31	58	45	37	31	42	35	38
	8	56	42	34	28	54	41	33	27	39	32	26
	9	52	39	30	25	50	38	30	24	36	29	24
10	49	36	28	22	47	35	27	22	33	26	21	

CP Summary		
	0°	90°
0°	1350.6	1350.6
5°	1350.2	1343.6
15°	1287.6	1308.2
25°	1177.7	1240.3
35°	1027.3	1144.8
45°	843.4	1025.4
55°	642.3	893.3
65°	426.2	755.3
75°	220.6	621.4
85°	47.9	495.9
90°	8.2	432.2

Zonal Lumen Summary		
	Lumens	%Fixture
0° - 20°	494.12	9.60
0° - 30°	1051.2	20.40
0° - 40°	1729.79	33.60
0° - 60°	3141.15	61.00
0° - 80°	4207.16	81.70
0° - 90°	4543.02	88.30

PT-LSFA-4FT	Wattage: 40W	Delivered lumens: 5136	Efficacy: 132 lm/W	CCT: 4000K	CRI: 80
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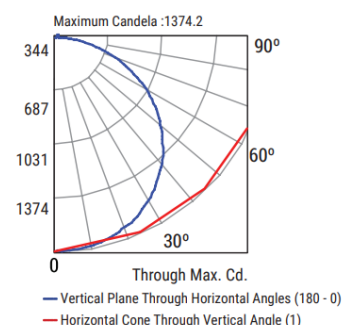


Coefficients of Utilization												
pfc												
	80%				70%				50%			
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	
pcc												
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	
ROR	0	116	116	116	116	112	112	112	112	105	105	105
	1	104	98	93	88	100	94	90	85	88	84	81
	2	93	84	76	70	89	81	74	68	76	70	65
	3	85	73	64	57	81	71	62	56	66	59	53
	4	77	64	55	48	74	62	54	47	58	51	45
	5	71	57	48	41	68	55	47	40	52	44	39
	6	65	51	42	35	62	50	41	35	47	39	34
	7	60	46	37	31	58	45	37	31	42	35	30
	8	56	42	34	28	54	41	33	27	39	31	26
	9	52	39	30	25	50	38	30	24	36	29	24
10	49	36	28	22	47	35	27	22	33	26	21	

CP Summary		
	0°	90°
0°	1343.8	1343.8
5°	1344.5	1334.6
15°	1286.5	1291.7
25°	1177.3	1213.8
35°	1028.0	1109.8
45°	847.2	992.8
55°	647.4	856.6
65°	436.3	722.2
75°	224.9	588.5
85°	50.6	467.7
90°	9.1	407.7

Zonal Lumen Summary		
	Lumens	%Fixture
0° - 20°	494.12	9.60
0° - 30°	1051.2	20.40
0° - 40°	1729.79	33.60
0° - 60°	3141.15	61.00
0° - 80°	4207.16	81.70
0° - 90°	4543.02	88.30

PT-LSFA-4FT	Wattage: 40W	Delivered lumens: 5228	Efficacy: 133 lm/W	CCT: 5000K	CRI: 80
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Coefficients of Utilization													
ROR	p/c												
	pcc	80%				70%				50%			
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	
0	116	116	116	116	112	112	112	112	105	105	105	105	
1	104	98	93	88	100	94	90	85	88	84	81	81	
2	93	84	76	70	89	81	74	68	76	70	65	65	
3	85	73	64	57	81	71	62	56	66	59	53	53	
4	77	64	55	48	74	62	54	47	58	51	45	45	
5	71	57	48	41	68	55	47	40	52	44	39	39	
6	65	51	42	35	62	50	41	35	47	39	34	34	
7	60	46	37	31	58	45	37	31	42	35	30	30	
8	56	42	34	28	54	41	33	27	39	31	26	26	
9	52	39	30	25	50	38	30	24	36	29	24	24	
10	49	36	28	22	47	35	27	22	33	26	21	21	

CP Summary		
	0°	90°
0°	1366.2	1366.2
5°	1363.7	1358.9
15°	1303.9	1323.9
25°	1195.3	1255.6
35°	1044.5	1158.5
45°	843.4	1025.4
55°	650.5	904.8
65°	441.3	765.9
75°	224.2	631.6
85°	48.9	502.5
90°	8.0	439.5

Zonal Lumen Summary		
	Lumens	%Fixture
0° - 20°	499.92	9.60
0° - 30°	1063.86	20.30
0° - 40°	1751.29	33.50
0° - 60°	3182.46	60.90
0° - 80°	4265.30	81.60
0° - 90°	4607.93	88.10

DLC LISTING

CATALOG NUMBER	WATTAGE	DELIVERED LUMENS	EFFICACY	DLC PRODUCT ID	CLASSIFICATION
PT-LSFA-4FT-40K	40W	5440	136 lm/W	PL0NTCGXEHI	PREMIUM
PT-LSFA-4FT-50K		5480	137 lm/W	PLVBIW5DDHI5	PREMIUM
PT-LSFA-8FT-40K	65W	8580	132 lm/W	S-4PJNMX	PREMIUM
PT-LSFA-8FT-50K		8645	133 lm/W	S-2L1H84	PREMIUM

Based on the highest wattagesetting, 80 CRI. Actual lumens may vary

www.portorindustry.com

Specification subject to change without notice

Documents / Resources



[PORTOR LIGHTING PT-LSFA Series LED Linear Strip Field Adjustable Luminaire](#) [pdf] Owner's Manual
PT-LSFA-4FT, PT-LSFA-8FT, PT-LSFA Series LED Linear Strip Field Adjustable Luminaire, PT-LSFA Series, LED Linear Strip Field Adjustable Luminaire, Strip Field Adjustable Luminaire, Field Adjustable Luminaire, Adjustable Luminaire, Luminaire

References

- [Portor Lighting – LED Lighting Solutions](#)
- [User Manual](#)

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