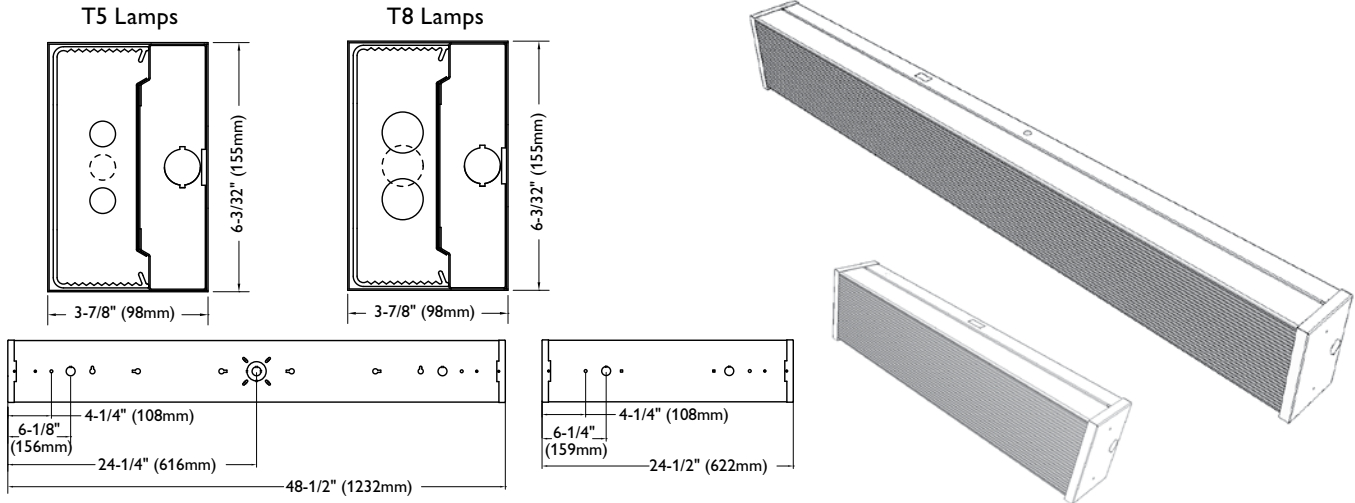


LSW Series

Ceiling/Wall Fluorescent, T5 or T8



Ordering Information

LSW	Fixture Length	Lens Type	Lamp Qty.	Lamps (by others)	Voltage	Ballast Type	Options
LS Surface/Wall Fluorescent	2 = 24" 4 = 48" (Nominal Size)	R R = Linear prismatic virgin acrylic lens	1 = 1 Lamp 2 = 2 Lamps	14 = T5 2' Length 17 = T8 2' Length 28 = T5 4' Length 32 = T8 4' Length 54 = T5HO 4' Length	120 = 120v 277 = 277v UNV = 120-277v	<20THD <10THD — HI* — P2‡ — PG‡ PF PS	— Add appropriate suffix to catalog no., i.e.: (C)

*Instant Start Standard
 ‡Program Rapid Start (UNV only)
 NOTE: For T8 UNV, you must use HI Ballast Code.

Features

- For ceiling or wall mounted applications.
- Can be vertically or horizontally mounted on wall.
- Only 3 7/8" deep, meets Americans with Disabilities Act for wall mounted fixtures.
- Low brightness .125 thick linear prismatic virgin acrylic refractor.
- Invisible spring steel latches align refractor to housing.
- 20 gauge cold rolled steel post painted baked white enamel end caps.
- Nominal 2' and 4' lengths.
- 73.9% efficient (T8 lamps).

Job Information	Type:
Job Name:	
Cat. No.:	
Notes:	



LSW Series

Ceiling/Wall Fluorescent, T5 or T8

Page 2 of 3

Specifications

Materials: Chassis Parts—Die-formed code gauge cold rolled steel. **End Caps**—20 gauge cold rolled steel.

Finish: Chassis exterior—Post painted white baked acrylic enamel. **End Caps**—Post painted baked white enamel. Rust preventative undercoating.

Refractor: Low brightness .125 linear prismatic, extruded virgin acrylic lens.

Electrical: Thermally protected class “P” ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

Labels: I.B.E.W., UL and ULc listed. UL listed for damp locations

This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Options & Accessories

Fusing: Internal fast blow fusing: Suffix: **A**.
Internal slow blow fusing: Suffix: **C**.

Radio Interference Filter: 120 or 277 volt, 50 or 60 Hz. One per fixture standard. Suffix: **R**. One per ballast. Suffix: **B**.

Emergency Power Pack: Factory installed emergency power pack includes charger and inverter concealed in fixture channel. Upon loss of AC power, operates one lamp at reduced light. T8 Suffix: **E1**. (consult factory for T5 option)

Stem and Canopy Sets: Suspends fixture 6", 12", 18" or 24" from surface. Catalog Number: **ASC6 CSP (6")**

ASC12 CSP (12")

ASC18 CSP (18")

ASC24 CSP (24")

Job Information	Type:
------------------------	--------------

PHILIPS

LIGHTOLIER

LSW Series

Ceiling/Wall Fluorescent, T5 or T8

Photometry

Model No. LS4R232UNVHI

LER = 66.9 IW = 55.4 BF = 0.88
Comparative yearly lighting energy cost per
1000 lumens = \$3.59

Report Number: G2010291

Catalog Number: LS4R232UNVHI

Lamps: (2) F032T8

Luminaire: LSW Series 4' luminaire

Ballast: RIC2S40TP

Report is based on 2850 lumens per lamp.

Efficiency: 73.9%

CIE Type: Direct/Indirect

Plane: 0-Deg. 90-Deg.

Spacing Criteria: 1.1 1.2

Shielding Angles: 90 90

Plane: 0-Deg. 90-Deg.

Luminous Length: 6.000 48.000

Candela Distribution

Vertical Angle	Horizontal Angle			Zonal Lumens
	0	45	90	
0	1176	1176	1176	
5	1162	1175	1188	112
15	1116	1155	1184	326
25	1028	1093	1134	502
35	899	973	993	598
45	724	696	665	542
55	483	485	526	443
65	235	367	508	377
75	110	309	468	319
85	20	229	404	243
90	6	202	364	
95	6	203	351	208
105	5	185	300	180
115	5	155	253	143
125	5	124	201	103
135	5	88	142	63
145	6	58	94	34
155	6	34	56	15
165	6	14	24	4
175	5	2	3	
180	2	2	2	

Coefficients of Utilization

Ceiling	80%			50%			30%		
	70	50	30	50	30	10	50	30	10
Wall	70	50	30	50	30	10	50	30	10
RC	Zonal Cavity Method								
RW	Effective Floor Reflectance = 20%								
1	76	72	69	64	61	59	58	56	55
2	69	63	57	55	51	48	51	48	45
3	63	55	49	49	44	40	45	41	38
4	58	49	42	43	38	34	40	36	32
5	53	44	37	39	34	30	36	32	28
6	49	39	33	35	30	26	33	28	25
7	45	36	29	32	27	23	30	25	22
8	42	33	26	29	24	21	27	23	20
9	40	30	24	27	22	19	25	21	18
10	37	28	22	25	20	17	24	19	16

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt.
0-30	940	16.5	22.3
0-40	1538	27.0	36.5
0-60	2523	44.3	59.9
0-90	3463	60.8	82.2
90-120	531	9.3	12.6
90-130	634	11.1	15.1
90-150	732	12.8	17.4
90-180	751	13.2	17.8
0-180	4214	73.9	100.0

Average Luminance data in candela / sq. meter

Angle	0°	45°	90°
45	3992.	4363.	4830.
55	2937.	3485.	4620.
65	1648.	3204.	5869.
75	946.	3573.	8263.
85	231.	4105.	16163.

Model No. LS2R217UNVHI

LER = 66.9 IW = 29.8 BF = 0.93
Comparative yearly lighting energy cost per
1000 lumens = \$3.59

Report Number: G2010296

Catalog Number: LS2R217UNVHI

Lamps: (2) F17 T8

Luminaire: LSW Series 2' luminaire

Ballast: ICN-2P32-SC

Report is based on 1400 lumens per lamp.

Efficiency: 76.6%

CIE Type: Direct/Indirect

Plane: 0-Deg. 90-Deg.

Spacing Criteria: 1.1 1.2

Shielding Angles: 90 90

Plane: 0-Deg. 90-Deg.

Luminous Length: 6.000 48.000

Candela Distribution

Vertical Angle	Horizontal Angle			Zonal Lumens
	0	45	90	
0	553	553	553	
5	549	553	557	53
15	526	541	554	153
25	482	509	529	234
35	418	454	481	283
45	337	381	417	293
55	234	300	341	264
65	140	217	268	212
75	66	154	216	158
85	13	99	164	105
90	3	79	151	
95	3	82	158	91
105	2	94	150	90
115	2	83	131	76
125	3	72	112	59
135	3	53	85	38
145	3	36	57	21
155	5	23	36	10
165	9	17	23	5
175	9	10	11	1
180	8	8	8	

Coefficients of Utilization

Ceiling	80%			50%			30%		
	70	50	30	50	30	10	50	30	10
Wall	70	50	30	50	30	10	50	30	10
RC	Zonal Cavity Method								
RW	Effective Floor Reflectance = 20%								
1	88	88	88	77	77	77	71	71	71
2	79	75	71	66	63	61	61	59	57
3	72	65	59	57	53	50	53	49	46
4	65	57	50	50	45	41	46	42	39
5	59	50	43	44	39	35	41	37	33
6	55	45	38	40	34	30	37	32	29
7	50	40	33	36	30	26	33	29	25
8	47	36	30	33	27	23	30	26	22
9	43	33	27	30	24	21	28	23	20
10	40	30	24	27	22	19	26	21	18

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt.
0-30	439	15.7	20.5
0-40	722	25.8	33.7
0-60	1279	45.7	59.6
0-90	1755	62.7	81.8
90-120	257	9.2	12.0
90-130	316	11.3	14.7
90-150	375	13.4	17.5
90-180	391	13.9	18.2
0-180	2145	76.6	100.0

Average Luminance data in candela / sq. meter

Angle	0°	45°	90°
45	4845.	4785.	4649.
55	3982.	4259.	4153.
65	3031.	3671.	3721.
75	2048.	3349.	3615.
85	753.	3147.	3592.



Philips Lightolier
e: lol.webmaster@philips.com
t: (508) 679-8131, Technical info. (978) 657-7600
w: www.lightolier.com

LSW Series July 28, 2011

Specifications are subject to change without notice.
© Koninklijke Philips Electronics N.V., 2011. All rights reserved.

Job Information Type: