

2' x 4'
2 Lamp
T5, T5HO, or T8

APPLICATION

- Retrofit package to convert multi-lamp 2x4 recessed luminaires to high efficiency 2-lamp products.
- Designed for use with recessed parabolic luminaires as shallow as 4-3/8". A trial installation is recommended before ordering project quantities.
- Package includes support ends, hinged/telescoping reflector assembly, ballast box, and louver assembly.
- Designed for modern T8 lamp/ballast systems. High lumen lamps and high efficiency ballasts are recommended to minimize energy consumption without sacrificing light levels.
- Energy savings up to 47% are possible compared to conventional 3-lamp 18-cell T8/electronic parabolic luminaires and up to 59% compared to T12 products, while maintaining IES recommended light levels.
- 2-lamp cross section reduces the number of lamps to reduce maintenance costs. Many lamps (including high lumen models) have extended lamp life to further reduce relamping requirements.
- Lighting power densities as low as 0.6 Watts/square foot are possible while maintaining recommended light levels.
- Retrofit with high efficiency low ballast factor (EBLHE) ballast and high lumen T8 lamps (LPT835HL) consumes only 47W. Compare to a conventional 3-lamp 18 cell T8 luminaire at approx. 88W or a T12 model at approx. 115W.

CONSTRUCTION

- Hinged reflector assembly leaves hands free for wiring.

ELECTRICAL

- Ballast box is fully wired with ballast and lampholders.
- Lamp/ballast systems are available offering electrical system efficacy ratings up to 102 Lumens/Watt.
- Total luminaire efficacy as high as 87 LPW.
- Step dimming ballasts can be switched to 50% (or less) input power for energy savings to meet most energy codes while maintaining symmetrical illumination.
- UL listed for damp locations. Canadian certified optional. Models with emergency ballast UL listed for dry locations.
- Integral ballast box serves as a wiring enclosure.

ENCLOSURES

- 12 cell louver is available with ribbed or flat cross baffles and creates a controlled amount of light in the upper spaces of the room to eliminate "cave effect" and create uniform illumination.
- Louver features a high reflectance diffuse white powder-coat finish.
- Spring loaded latches are standard for easy operation and consistent retention, louver can be hinged from either side.

CATALOG NUMBER

2 **WSR** **2** - **26** - **1/2** -

FIXTURE FAMILY		LAMP TYPE/WATTAGE		BAFFLE FINISH		BALLAST CONFIG.		OPTIONS	
WSR – WattWatcher Select Retrofit		28 – 28wT5 (46") 32 – 32wT8 (48") 54HO – 54wT5HO (46")		RMW – Matte white paint finish w/ribbed cross baffles FMW – Matte white paint finish w/flat cross baffles		1/2 – One 2-Lamp ballast		CM – Canadian Market E1* – DEB-1 emerg. ballast, T8 lamps, 350-450 lumens E7* – DEB-7 emerg. ballast, T8 lamps, 600-700 lumens E5* – DEB-5 emerg. ballast, T8 lamps, 1100-1400 lumens E7LP* – DEB-7LP emerg. ballast T5/T5HO, 430-700 lumens E6* – DEB-6LP emerg. ballast, T5/T5HO lamps, 750-1325 lumens GLR# – Fusing, fast blow (# = number of ballasts) LPT730** – Installed T8 lamps, 70+ CRI, 3000K LPT735** – Installed T8 lamps, 70+ CRI, 3500K LPT741** – Installed T8 lamps, 70+ CRI, 4100K LPT830HL** – Installed T8 or T5 hi lumen lamps, 80+ CRI, 3000K LPT835HL** – Installed T8 or T5 hi lumen lamps, 80+ CRI, 3500K LPT841HL** – Installed T8 or T5 hi lumen lamps, 80+ CRI, 4100K LPT830** – Installed T8/T5/T5HO lamps, 80+ CRI, 3000K LPT835** – Installed T8/T5/T5HO lamps, 80+ CRI, 3500K LPT841** – Installed T8/T5/T5HO lamps, 80+ CRI, 4100K	
WIDTH		NO. OF LAMPS		BAFFLE CONFIGURATION		VOLTAGE			
2 – 2'		(not included) 2		(cells wide x cells long) 26 – 2 x 6 (2x4 models)		120 277 347 UNV – Universal voltage, 120-277 volt			
BALLAST TYPE									
EB95 – 28wT5 Electronic ballast, .95 ballast factor EB115 – 28wT5 Electronic ballast, 1.15 ballast factor EBSD95 – 28wT5 Electronic step dimming ballast, .95 ballast factor EBSD115 – 28wT5 Electronic step dimming ballast, 1.15 ballast factor EBSD80 – 54wT5HO Electronic step dimming ballast, .80 ballast factor EBD – T5/T5HO/T8 electronic dimming ballast EB – T5/T5HO/T8 electronic ballast, std. ballast factor EBL – T8 Electronic ballast, low ballast factor EBH – T8 Electronic ballast, hi ballast factor EB10I – T8 Electronic ballast, <10% THD, instant start EB10R – T8 Electronic ballast, <10% THD, rapid start EBSD – T8 Electronic step dimming ballast EBHE – T8 Electronic ballast, high efficiency, std. ballast factor EBLHE – T8 Electronic ballast, high efficiency, low ballast factor EBHHE – T8 Electronic ballast, high efficiency, high ballast factor									

* Factory installed.
** Lamps included, bulk packed in carton quantities.

JOB INFORMATION

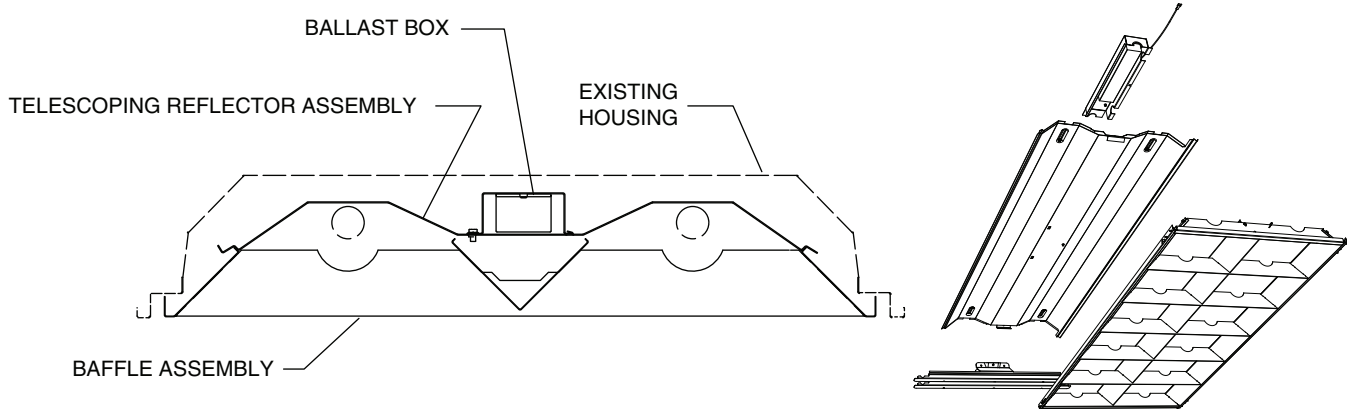
278-PLV



ENERGY DATA

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-lumen Lamps
28	EB95	60W / 58W	95	100
	EBSD95@hi	60W / 58W	95	100
	EBSD95@lo	28W / 28W	73	76
	EB115	72W / 71W	94	99
	EBSD115@hi	72W / 71W	94	99
	EBSD115@lo	35W / 35W	80	81
	EB	66W / 64W	95	100
32	EB	58W / 58W	85	94
	EBHE	55W / 54W	90	100
	EB10I	59W / 58W	85	94
	EB10R	62W / 60W	82	91
	EBL	50W / 49W	88	97
	EBLHE	47W / 47W	92	102
	EBH	77W / 77W	87	97
	EBHHE	74W / 73W	91	100
	EBSD@hi	57W / 56W	88	97
	EBSD@lo	28W / 28W	60	66
	54HO	EB	120W / 117W	85
EBSD80@hi		96W / 93W	86	-
EBSD80@lo		52W / 51W	78	-

*Standard lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy saving lamps are also available.



PHOTOMETRIC DATA

CATALOG # 2WSR232-26RMW-1/2-EB LAMPS = F32T8

TEST #27910 S/MH=1.4

BALLAST = ELECTRONIC

INPUT WATTS = 59

BALLAST FACTOR = .88

LER = 73

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.29 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 85.8%

CANDLEPOWER				
Angle	End	45	Cross	
0	1776	1776	1776	
5	1774	1765	1757	
10	1732	1740	1753	
15	1677	1703	1749	
20	1607	1662	1744	
25	1523	1610	1733	
30	1431	1546	1711	
35	1324	1473	1671	
40	1202	1384	1607	
45	1075	1278	1511	
50	939	1152	1381	
55	801	1002	1094	
60	660	824	642	
65	517	549	288	
70	374	282	191	
75	230	170	123	
80	129	107	61	
85	57	47	22	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	
2x4	5	-	129	78	55	39
2-Lamp T8	2	-	89	54	38	-
12 Cell	1	-	65	39	-	-

*Observe Fixture S/MH Requirements for Specific Applications

COEFFICIENT OF UTILIZATION						
pfc	20		70		50	
	pc	pw	70	50	30	50
RCR	0	102	102	102	100	100
	1	93	90	86	92	88
	2	85	79	73	83	78
	3	79	69	64	77	68
	4	71	61	55	69	60
	5	66	56	47	65	55
	6	60	50	42	59	48
	7	56	45	38	55	45
	8	53	40	34	52	40
	9	48	38	30	47	36
	10	46	34	28	45	34

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1396	24.5	28.5
0-40	2322	40.7	47.5
0-60	4169	73.1	85.2
0-90	4892	85.8	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.91 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

278-PLV

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PHILIPS