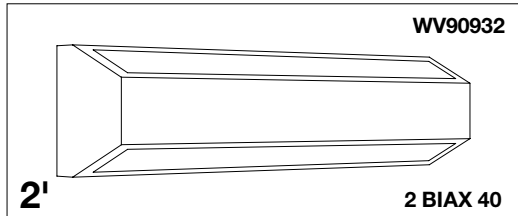
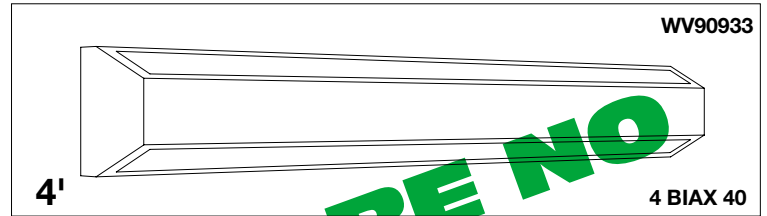


## Super Strong: For Tough Correctional, Psychiatric Facilities



46% Efficiency



42% Efficiency

### Features

#### Lamps

- Designed for:
  - WV90932: 2 horizontal Biax 40 watt. One up, one down.
  - WV90933: 4 horizontal Biax 40 watt. Two up, two down.
- See Option -43 for lower wattage.

#### Ballast

- Thermally protected, encased and potted standard.
- High power factor standard.
- Single-circuit wiring standard. Optional two-circuit wiring. (See Option -84)
- 120 volt standard or see optional voltages.
- Dimming optional. (See Option -39)
- Electronic optional. (See Option -96)

#### Switches (See Option -34)

- Totally concealed remote style push switch(es). One or two available.
- Operated by captive spring-loaded push button plunger attached to housing.

#### Fuse

- Available as Option -FS (single) or -FD (double).

#### Reflector

- Full-size formed specular reflector with minimum 94% reflectivity.
- Removable for servicing.

#### Lens

- High strength .187" thick acrylic prismatic standard up and down.
- Retained by non-accessible steel angles through-bolted to interior of housing assembly.
- Polycarbonate overlay (1/4" thickness) available. (See Option -13).

#### Housing

- Super-strong 6063-T6 tempered extruded aluminum front and sides.
- End plates of .750" cast 356-T6 alloy aluminum are internally mig welded to front and side extrusions.
- White polyester enamel finish.

- All exposed edges are rounded for greater safety.
- Recommended for prisons, detention areas, psychiatric facilities - any area of high vandalism.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.

#### Installation

- Installs indoor or outdoor on all walls in covered locations.
- Access hole is 7/8" diameter with six 1/2" x 1-5/8" slotted mounting holes allowing for field tolerances.
- Secure with 3/8" lag or molly bolts to ceiling and/or wall structure.
- Tamper-proof tools included, minimum one per ten fixtures.

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.

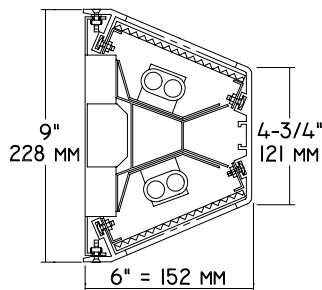
#### Three Year Limited Warranty

- Complete standard fixture.

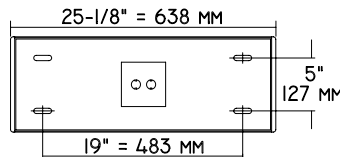
THESE FIXTURES ARE NO LONGER AVAILABLE FOR REPLACEMENTS

### Performance at a Glance

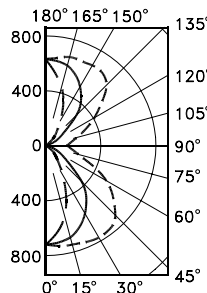
WV90932, WV90933



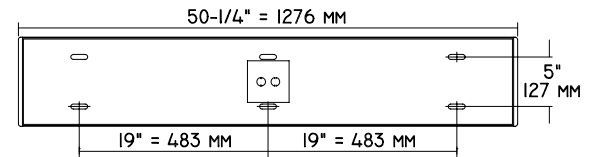
WV90932



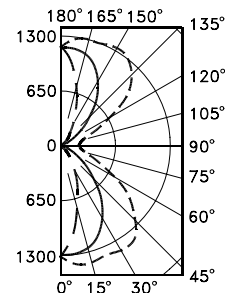
WV90932



WV90933



WV90933



## THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232  
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121

**CENTURY SERIES  
VANDAL RESISTANT  
COMPACT FLUORESCENT LIGHTING**

MAXIMUM WATTAGE

**2 Biax 40  
4 Biax 40**

CATALOG NUMBERS

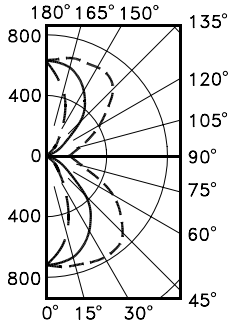
**WV90932  
WV90933**

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO) WV90932: TEST NUMBER 41198  
WV90933: TEST NUMBER 41197

WV90932

\*LER = 33.6  
•AEC = \$7.15



EFFICIENCY = 46.0%

CANDLEPOWER DISTRIBUTION

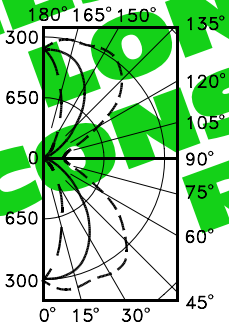
	0.0	45.0	90.0	135.0	180.0
0	744	744	744	744	744
10	761	760	726	662	621
30	779	712	570	281	208
50	606	538	228	75	50
70	259	174	60	8	0
90	128	82	0	0	0
110	244	162	49	6	0
130	542	475	199	65	41
150	684	628	494	233	169
170	690	677	637	556	517
180	655	655	655	655	655

COEFFICIENTS OF UTILIZATION

RF	20					
	80			50		
	70	50	30	10	50	10
RC						
RW						
1	45	43	42	40	34	32
2	42	38	35	33	29	27
3	38	34	30	28	25	23
4	35	30	26	24	22	20
5	32	27	23	21	19	17
6	30	24	21	18	17	15
7	28	22	18	16	15	14
8	26	20	16	14	14	12
9	24	18	15	13	13	11
10	22	17	14	11	12	10

WV90933

\*LER = 30.7  
•AEC = \$7.83



EFFICIENCY = 42.0%

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	1303	1303	1303	1303	1303
10	1417	1392	1282	1080	987
30	1415	1298	988	431	311
50	1164	1016	416	126	85
70	439	320	113	18	0
90	238	150	0	0	0
110	412	298	102	12	0
130	1078	941	372	88	71
150	1323	1212	885	379	270
170	1306	1287	1168	957	863
180	1192	1192	1192	1192	1192

COEFFICIENTS OF UTILIZATION

RF	20					
	80			50		
	70	50	30	10	50	10
RC						
RW						
1	41	40	38	36	31	29
2	38	35	32	30	28	25
3	35	31	28	25	24	21
4	32	27	24	22	20	18
5	29	24	21	19	17	16
6	27	22	19	16	15	14
7	25	20	17	14	14	12
8	23	18	15	13	12	11
9	22	17	13	11	11	10
10	20	15	12	10	10	9

Options

- 13 Clear 1/4" flat polycarbonate over .187" high strength acrylic. For other polycarbonate thickness up to .500" consult factory.
- 34 Concealed on-off switch(es) with remote plunger. Specify Option -84 when using two switches.
- 39 Installed electronic dimming ballast. Biax 40, F17 T-8 or F20 (WV90932). Biax 40, F32 T-8 or F40 (WV90933). Consult factory for quantity and type required. Also see -WD.
- 43 Lower Wattage: Specify 2-17W T-8 or 2 F20 (WV90932); 2-32W T-8 or 2 F40 (WV90933).
- 48 Night light socket and ballast for 7 watt fluorescent lamp.
- 58 277 volt 60 Hz. ballast instead.
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing. Switch and light unobtrusively located inside reflector. For indoor use. Consult factory for use with -96 electronic ballast. Not available for -39.
- 74 Internal 2 lamp emergency "Ni-Cad" battery pack for use with 4-pin electronic lamps only. Use with Option -96. Indoor use.
- 84 Fixture wired for two circuits. One up, one down. See Options -FD and -RD.
- 94 Custom color housing. Consult factory.
- 96 Regulating electronic high power factor single circuit ballast instead. Biax 40, F17 T-8 or F20 (WV90932); Biax 40, F32 T-8 or F40 (WV90933).
- 97 Other voltage ballast. Consult factory.
- 98 347 volt 60 Hz. ballast instead. Consult factory for dimming.
- 99 Special modification. Consult factory.
- FS Fused primary. One per fixture. Replaceable. Aids servicing.
- FD Double Fused primary. One per circuit. Replaceable. For use with Option -84.
- LP With lamps. 3000°K or consult factory. Specify wattage and color temperature.
- RF Radio interference filter. One per fixture. Eliminates line feedback.
- RD Double radio interference filter. For use with Option -84.
- WD Wall Dimmer for use with Option -39.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME \_\_\_\_\_

TYPE \_\_\_\_\_

WATTAGE \_\_\_\_\_ VOLTAGE \_\_\_\_\_

CATALOG NUMBER \_\_\_\_\_

THESE FIXTURES ARE NO LONGER AVAILABLE FOR CONSULT FACTORIES

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MANUFACTURER'S LIABILITY IS LIMITED TO THE ORIGINAL PURCHASER OR INSTALLER. THIS WARRANTY IS VOID IF THE FIXTURE IS NOT INSTALLED OR USED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE PURCHASER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM LOCAL AGENCIES. THE PURCHASER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM LOCAL AGENCIES. THE PURCHASER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM LOCAL AGENCIES.