

Tough and Efficient: For Schools, Transit Stations, Jails



Features

Lamps

- Designed for:
CV90830: 2 horizontal Biax 40 watt.
CV90831: 4 horizontal Biax 40 watt.
- See Option -43 for lower wattage.

Ballast

- Thermally protected enclosed and potted standard.
- High power factor standard.
- Single-circuit wiring standard. Optional two-circuit wiring. (See Option -80)
- 120 volt standard or see optional voltages.
- Dimming optional. (See Option -39)
- Electronic optional. (See Option -96)

Fuse

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

Reflector

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

Lens

- High strength, .187" thick acrylic prismatic standard.
- Reinforced by non-removable inner aluminum lens clamps with captive nuts and flush-mounted center-pin tamper-proof screws.
- Full-size tamper-proof tool included (not included) available. (See Option -13).

Housing

- Super-strong 6063-T6 tempered extruded aluminum.
- White polyester enamel finish.
- Recommended for prisons, detention areas,

psychiatric facilities - any area of high vandalism.

- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.

Installation

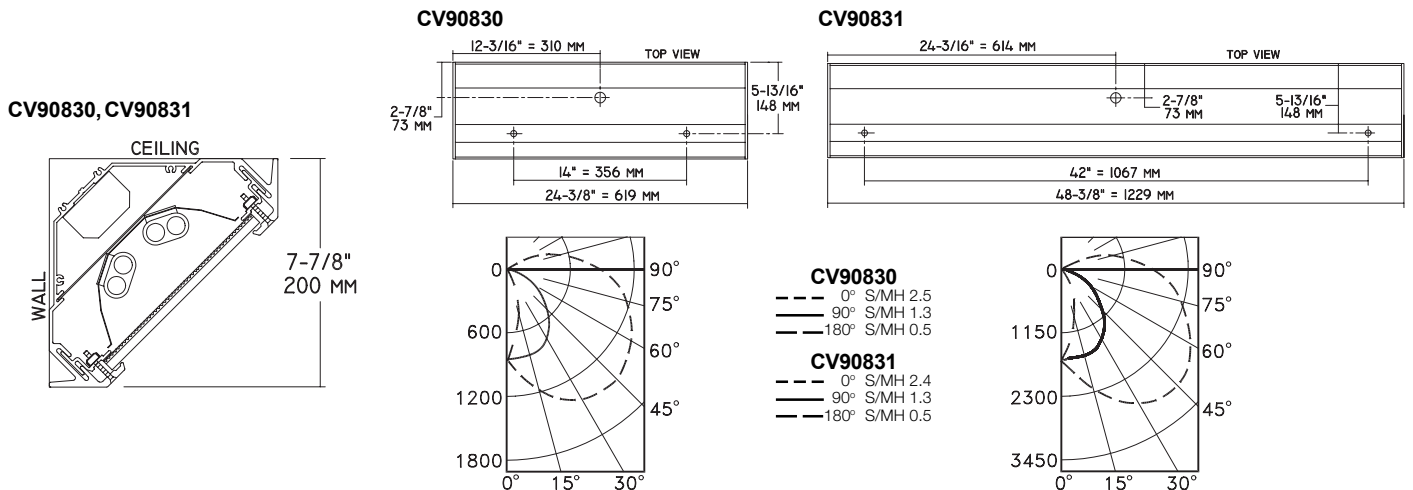
- Installs indoor or outdoor on all corners, horizontal (ceiling-wall) or vertical (wall-wall), in covered locations.
- Two access holes (ceiling and wall) are 7/8" diameter with 1/2" diameter mounting holes.
- Secure with 3/8" lag or molly bolts to ceiling and wall structure.
- Tamper-proof tools included, minimum one per ten fixtures.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Three Year Limited Warranty**
- Complete standard fixture.

Please consult
QUOTATIONS
for the best alternative.

Performance at a Glance



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

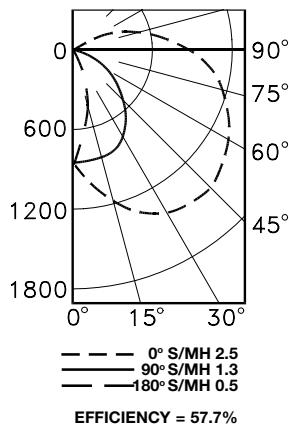
CATALOG NUMBERS

CV90830
CV90831

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO) CV90830: TEST NUMBER 40945
CV90831: TEST NUMBER 40953

CV90830

*LER = 42.1
•AEC = \$5.70

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	759	759	759	759	759
10	1018	948	766	590	509
30	1407	1195	690	264	129
50	1525	1111	476	17	0
70	1278	901	192	0	0
90	809	595	0	0	0
110	346	189	0	0	0
130	31	0	0	0	0
150	0	0	0	0	0
170	0	0	0	0	0
180	0	0	0	0	0

* LER = Luminaire Efficacy Rating

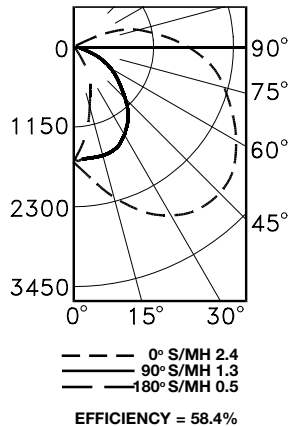
LER = Luminaire Effic. x Total Lamp Lumens x Ballast Factor
Input Watts

COEFFICIENTS OF UTILIZATION

RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	59	55	52	49	50	47	45
2	53	47	42	38	42	39	35
3	48	41	35	31	36	32	29
4	43	36	30	26	32	28	24
5	40	32	26	22	28	24	20
6	37	28	23	19	26	21	18
7	34	25	20	16	23	19	15
8	31	23	18	14	21	17	14
9	29	21	16	13	19	15	12
10	27	19	15	11	18	14	11

• AEC = Annual Energy Cost per
1000 lumens (based on 3000
hours use @ \$0.08 KWH).

CV90831

*LER = 42.6
•AEC = \$5.63

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	1553	1553	1553	1553	1553
10	2035	1897	1557	1210	1079
30	2822	2390	1419	555	293
50	3022	2244	1002	39	0
70	2483	1781	401	0	0
90	1530	1119	0	0	0
110	378	338	0	0	0
130	51	0	0	0	0
150	0	0	0	0	0
170	0	0	0	0	0
180	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	60	56	53	50	51	48	46
2	54	48	43	39	43	39	36
3	48	41	36	32	37	33	29
4	44	36	30	26	33	28	25
5	40	32	26	22	29	24	21
6	37	29	23	19	26	21	18
7	34	26	20	17	24	19	16
8	32	23	18	15	21	17	14
9	30	21	16	13	20	15	12
10	28	20	15	12	18	14	11

Options

- 13 Clear 1/4" flat polycarbonate below .187" high strength acrylic. For other polycarbonate thickness up to .375" consult factory.
- 39 Installed electronic dimming ballast. Biax 40, F17 T-8 or F20 (CV90830); Biax 40, F32 T-8 or F40 (CV90831). Consult factory for quantity and type required. Also see -WD.
- 43 Lower Wattage: Specify 2-17W T-8 or 2 F20 (CV90830); 2-32W T-8 or 2 F40 (CV90831).
- 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. 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 (CV90830); Biax 40, F32 T-8 or F40 (CV90831).
- 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

JOB NAME _____
TYPE _____
WATTAGE _____ VOLTAGE _____
CATALOG NUMBER _____

APPROVAL STAMP

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IN NORMAL USE. Manufacturer at his option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing, and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied to the purchaser in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability of fixture for application use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will void the warranty.