

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 screws (4" minimum) 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

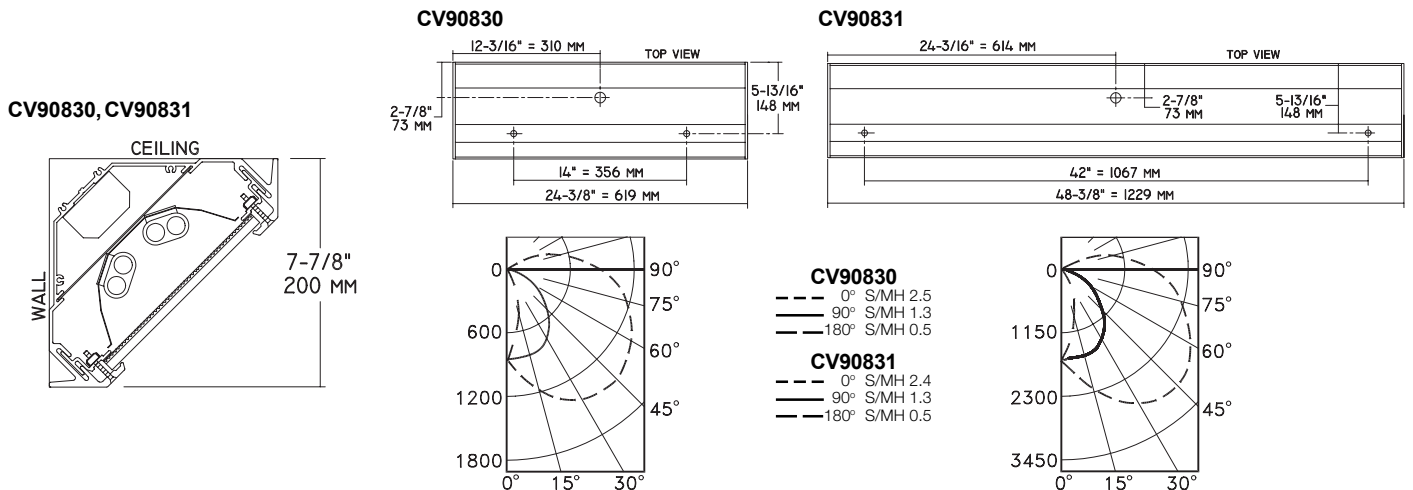
- Installs indoor or outdoor on all corners, horizontal (ceiling-wall) or vertical (wall-wall), in covered locations.
- Two access holes (ceiling and wall) are 7/8" diameter with 1/2" diameter mounting holes.
- Secure with 3/8" lag or molly bolts to ceiling and wall structure.
- Tamper-proof tools included,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

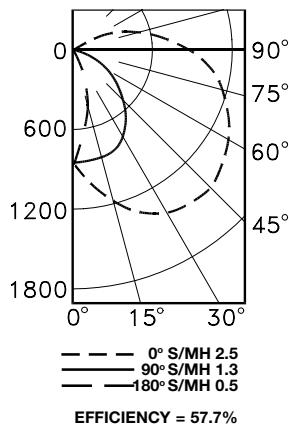
CATALOG NUMBERS

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

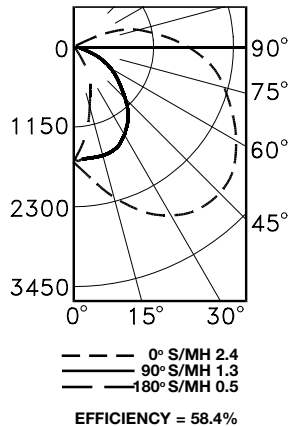
COEFFICIENTS OF UTILIZATION

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

* LER = Luminaire Efficacy Rating

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