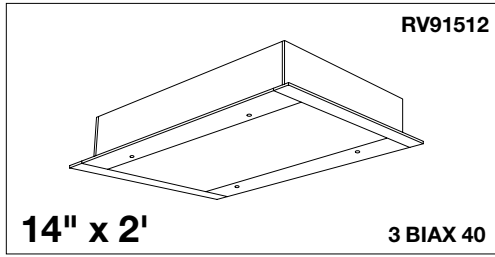
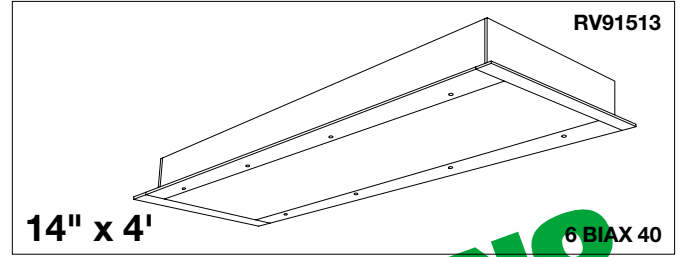


For Assembly Rooms, Dormitories, Restrooms and Cells



56% Efficiency



56% Efficiency
Available for 3-32 Watt T-8 (See Option -43)

Features

Lamps

- Designed for:
 - RV91512: 3 horizontal Biax 40 watt.
 - RV91513: 6 horizontal Biax 40 watt.
- 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)
- Visible and easily serviced in ceiling.

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.
- Retained by non-removable tempered aluminum lens clamps with captive nuts and flush-mounted center-pin tamper-proof screws.
- Poly carbonate overlay (1/4" thickness) 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

- Two die-formed vertically adjustable 16 gauge steel mounting yokes supplied.
- Recesses indoor or outdoor in covered locations. Access hole is 7/8" diameter.
- Wet plaster frame available. (See Option -47)
- These fixtures are NOT suitable for lay-in style ceilings.
- Tamper-proof tools included, minimum one per ten fixtures.

UL, C-UL (Canada) Listings

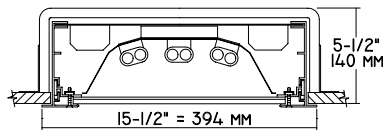
- Wet, damp or dry locations, covered ceilings.

Three Year Limited Warranty

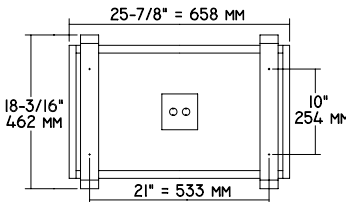
- Complete standard fixture.

Performance at a Glance

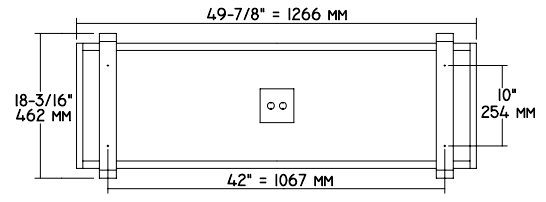
RV91512, RV91513



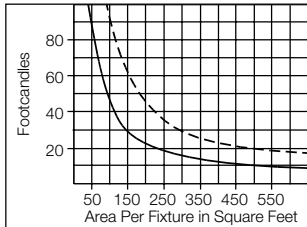
RV91512



RV91513

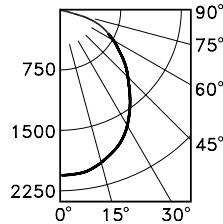


Multiple Fixture FC Calculator **



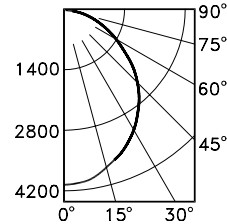
** Based on:
RCR=2;
ceiling 70%;
wall 50%;
floor 20%.

Use S/MH shown for each fixture.



RV91512 S/MH 1.2

Distribution curves and S/MH data shown are 90° to lamp axis.



RV91513 S/MH 1.2

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

**3 Biax 40
6 Biax 40**

CATALOG NUMBERS

**RV91512
RV91513**

THE KIRLIN COMPANY RESERVES THE RIGHT TO CHANGE, WITHOUT NOTICE, DETAILS OR SPECIFICATIONS IN PRODUCT DESIGN.

**RV91512
RV91513**

RECESSED VANDAL RESISTANT: BIAX 40 IN FLANGED 14" x 2' and 14" x 4'



Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO)

RV91512: TEST NUMBER 40944
RV91513: TEST NUMBER 40952

RV91512-43: TEST NUMBER 40943
RV91513-43: TEST NUMBER 40951

RV91512

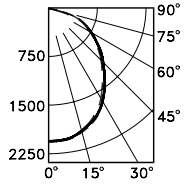
LER = 38.9

AEC = \$6.17

**RV91512-43
(2 Biax 40)**

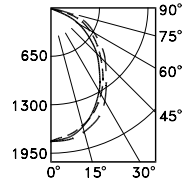
LER = 48.2

AEC = \$4.98



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	2108	2108	2108	2108	2108
5	2093	2089	2095	2115	2118
15	1945	1976	1965	2012	1990
25	1703	1783	1758	1823	1761
35	1411	1520	1491	1565	1483
45	1124	1224	1185	1272	1191
55	835	921	865	964	896
65	546	602	557	635	593
75	269	289	263	305	289
85	45	49	40	54	54
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80		50				
RW	70	50	30	10	50	30	10
1	61	58	56	54	55	53	51
2	55	51	47	44	48	45	43
3	51	45	41	37	42	39	36
4	46	40	35	32	38	34	31
5	43	36	31	27	34	30	27
6	40	32	28	24	31	27	24
7	37	29	25	21	28	24	21
8	34	27	22	19	26	22	19
9	32	25	20	17	24	20	17
10	30	23	19	16	22	18	16



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	1838	1838	1838	1838	1838
5	1794	1819	1831	1854	1856
15	1661	1705	1676	1745	1741
25	1451	1486	1423	1528	1529
35	1189	1220	1143	1264	1265
45	936	956	861	999	1010
55	689	691	595	725	750
65	444	434	361	462	490
75	213	200	160	215	236
85	35	34	28	36	43
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80		50				
RW	70	50	30	10	50	30	10
1	72	69	67	64	65	63	61
2	66	61	57	53	58	54	51
3	61	54	49	45	51	47	44
4	56	48	43	39	46	41	38
5	52	43	38	34	41	37	33
6	48	39	34	30	38	33	29
7	44	36	30	26	34	30	26
8	41	33	27	24	32	27	23
9	39	30	25	21	29	25	21
10	36	28	23	20	27	23	19

EFFICIENCY = 55.5%

EFFICIENCY = 66.0%

* LER = Luminaire Efficiency Rating

LER = $\frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$

AEC = Annual Energy Cost per 1000 lumens (based on 3000 hrs use @ 100 ft-c)

RV91513

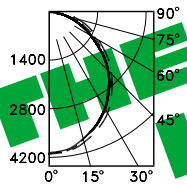
LER = 38.9

AEC = \$6.17

**RV91513-43
(4 Biax 40)**

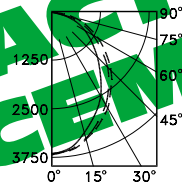
LER = 48.6

AEC = \$4.94



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4142	4142	4142	4142	4142
5	4138	4130	4130	4115	4107
15	3893	3928	3928	3893	3850
25	3446	3531	3531	3512	3454
35	2909	3010	3053	3074	2940
45	2380	2481	2512	2442	2341
55	1805	1914	1914	1812	1696
65	1206	1280	1245	1151	1073
75	659	665	618	572	513
85	101	128	101	101	78
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80		50				
RW	70	50	30	10	50	30	10
1	61	58	56	54	54	53	51
2	55	51	47	44	48	45	43
3	51	45	40	37	42	39	36
4	46	40	35	31	38	34	31
5	43	36	31	27	34	30	27
6	39	32	27	24	31	27	24
7	37	29	24	21	28	24	21
8	34	27	22	19	26	22	19
9	32	25	20	17	24	20	17
10	30	23	18	15	22	18	15



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	3694	3694	3694	3694	3694
5	3683	3699	3683	3658	3650
15	3441	3478	3441	3389	3329
25	3031	3080	3015	2903	2814
35	2517	2569	2493	2360	2259
45	2018	2050	1958	1797	1689
55	1520	1532	1419	1262	1174
65	1021	1029	921	796	716
75	482	499	426	354	314
85	88	96	72	68	56
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80		50				
RW	70	50	30	10	50	30	10
1	73	70	67	65	66	64	62
2	67	62	57	54	58	55	52
3	61	55	49	45	52	47	44
4	56	48	43	39	46	42	38
5	52	44	38	34	42	37	33
6	48	40	34	30	38	33	29
7	45	36	30	26	34	30	26
8	42	33	28	24	32	27	24
9	39	30	25	21	29	25	21
10	37	28	23	20	27	23	19

EFFICIENCY = 55.5%

EFFICIENCY = 66.6%

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 (RV91512). Biax 40, F32 T-8 or F40 (RV91513). Consult factory for quantity and type required. Also see -WD.
- 43 Lower Wattage: Specify 3-17W T-8 or 3 F20 (RV91512); 3-32W T-8 or 3 F40 (RV91513).
- 47 Plaster frame for wet plaster ceiling.
- 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. 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 (RV91512); Biax 40, F32 T-8 or F40 (RV91513).
- 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 ballast. 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 _____

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION, 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 the 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 for the fixture placed at other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor warranty of statement, constitute a warranty or amend the 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 of this fixture.