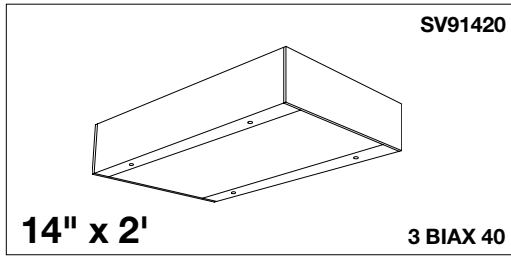
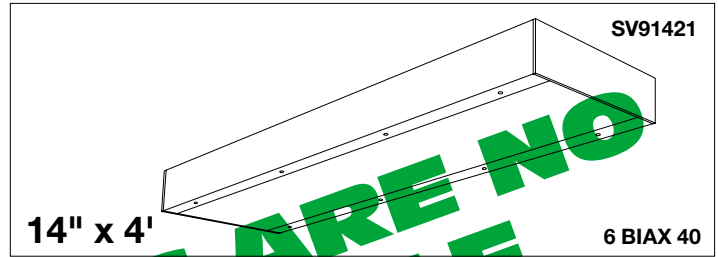


For Assembly Rooms, Dormitories, Restrooms and Cells



56% Efficiency



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

Features

Lamps

- Designed for:
SV91420: 3 horizontal Biax 40 watt
SV91421: 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)

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.
- Polycarbonate 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

- Installs indoor or outdoor on all ceilings, covered locations.
- Access hole is 7/8" diameter with 1/2" diameter mounting holes.
- Secure with 3/8" lag or molly bolts to ceiling support structure.
- Tamper-proof tools included, minimum one per ten fixtures.

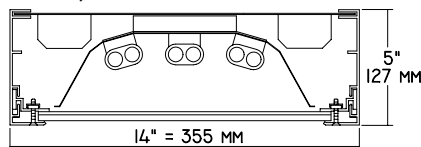
UL, C-UL (Canada) Listings

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

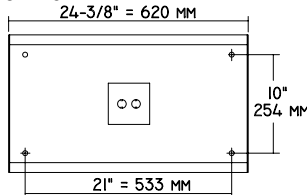
THESE FIXTURES ARE NO LONGER AVAILABLE FOR CONSULTING FACILITIES

Performance at a Glance

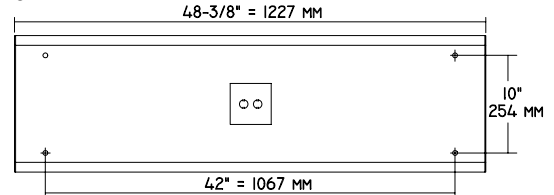
SV91420, SV91421



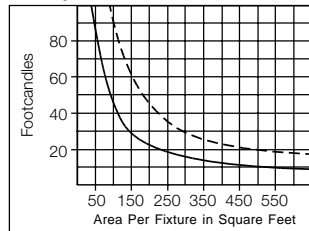
SV91420



SV91421



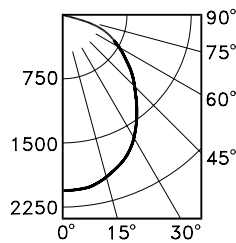
Multiple Fixture FC Calculator **



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

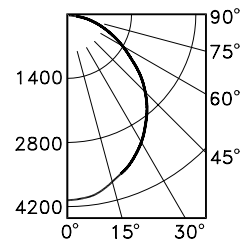
Use S/MH shown for each fixture.

SV91420 ——— SV91421 - - - -



SV91420 S/MH 1.2

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



SV91421 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

**SV91420
SV91421**

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

Detailed Photometry - Installed Fixture

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

SV91420: TEST NUMBER 40944
SV91421: TEST NUMBER 40952

SV91420-43: TEST NUMBER 40943
SV91421-43: TEST NUMBER 40951

SV91420

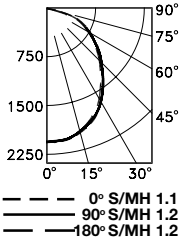
*LER = 38.9

•AEC = \$6.17

**SV91420-43
(2 Biax 40)**

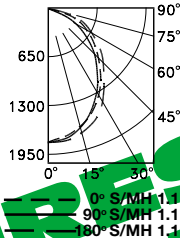
*LER = 48.2

•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	1493
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	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	1834	1856
15	1661	1705	1676	1745	1711
25	1451	1466	1423	1529	1529
35	1189	1220	1188	1264	1265
45	938	965	931	999	1016
55	689	691	655	755	750
65	444	434	351	452	491
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	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	55	48	43	39	46	41	38
5	50	43	38	34	41	37	34
6	45	38	34	30	38	33	29
7	41	36	30	26	34	30	26
8	41	35	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 Efficacy Ratio

* AEC = Annual Energy Cost per 1000 lumens (based on 1000 lumens @ \$0.08 KWH).

SV91421

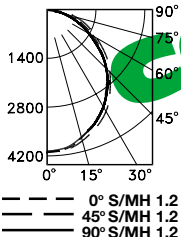
*LER = 38.9

•AEC = \$6.17

**SV91421-43
(4 Biax 40)**

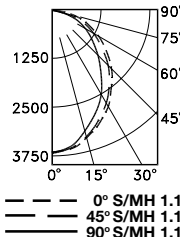
*LER = 48.6

•AEC = \$4.94



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4142	4142	4142	4142	4142
5	4138	4150	4130	4115	4161
15	3889	3928	3928	3933	3850
25	3446	3531	3551	3512	3454
35	2909	3010	3053	3014	2940
45	2380	2481	2512	2442	2341
55	1805	1914	1914	1812	1696
65	1206	1280	1245	1151	1073
75	599	665	618	572	513
85	101	128	101	101	78
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80	10	50	30	10		
1	61	58	56	54	55	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	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	49	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	22	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 (SV91420.) Biax 40, F32 T-8 or F40 (SV91421). Consult factory for quantity and type required. Also see -WD.
- 43 Lower Wattage: Specify 3-17W T-8 or 3 F20 (SV91420); 3-32 T-8 or 3 F40 (SV91421).
- 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 (SV91420); Biax 40, F32 T-8 or F40 (SV91421).
- 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. 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, E.C., IN NORMAL USE. Manufacturer at his option will replace or repair such fixture or refund the purchase price on presentation of a 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 fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will void the warranty.