

Vandal Resistant Trim: High Output Amalgam Lamps



Features

Lamp

- Designed for:
 - 1 horizontal Triple Tube 32 watt: RV91003.
 - 2 horizontal Triple Tube 32 watt: RV91204.
- 4 pin, GX24q-3 base.
- 90% lumen output maintained at ballast minimum temperature.
- Flicker-free starting, high light output, excellent color rendering (82 CRI).
- High efficiency with low operating costs.
- See Option -43 for lower wattage.

Ballast

- Regulating, electronic high power factor thermally protected, encased, -10°C (13°F) rated. THD is less than 10%.
- Built-in RIF filter.
- 120 volt standard or see optional voltages.
- Dimming optional. (See Option-39)
- Single-circuit wiring standard. Optional two-

circuit wiring. (RV91204 only-see Option -84)

- Visible and easily serviced in all ceilings.

Fuse

- Available as Option -FS (single) or -FD (double - RV91204 only).

Reflector

- Clear specular Alzak® 100% aluminum.

Trim Assembly

- Tamper-resistant, seamless tapered black OptiGroove. Self-flanged white trim.
- Flush tamperproof hex screws with center pin secure trim to captive nuts in housing.
- Continuous ring and four screws secure lens.
- Lens combines .187" high-strength prismatic acrylic overlay with 1/4" polycarbonate below for added tamper-resistance.

Housing

- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area.

- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable trim assembly.
- Built-in plaster frame.

Installation

- 27" hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Recesses indoor or outdoor in covered locations.
- Tamper-proof tools included, minimum one per ten fixtures.

UL, C-UL (Canada) Listings

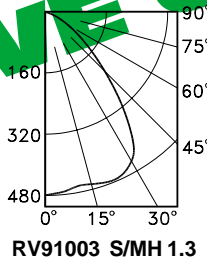
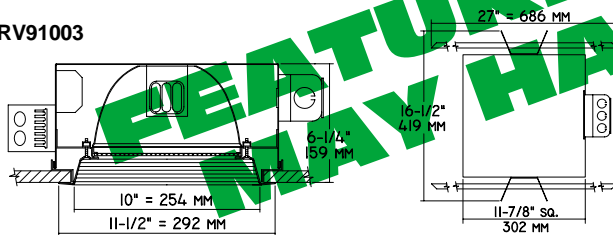
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

Three Year Limited Warranty

- Complete standard fixture.

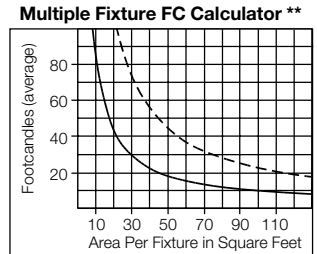
Performance at a Glance

RV91003



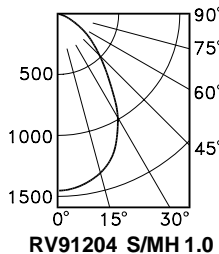
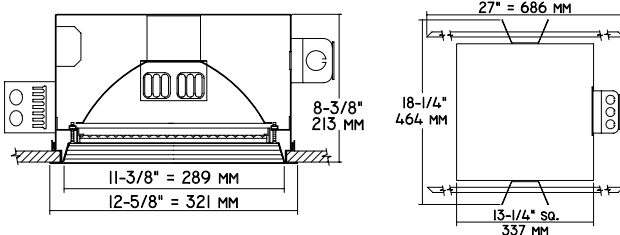
Ft.	FC	Dia.
6	13.3	7.4
8	7.5	9.8
10	4.8	12.3
12	3.3	14.7
14	2.4	17.2
16	1.9	19.6

RV91003



RV91003 ——— RV91204 - - - -

RV91204



Ft.	FC	Dia.
6	40.3	5.8
8	22.7	7.7
10	14.5	9.6
12	10.1	11.5
14	7.4	13.5
16	5.7	15.4

RV91204

Cone of Light Key

- Ft. Distance from fixture
- FC Footcandles (average)
- Dia. Circle of light at 50% of FC

* Dia. (in ft.) shown is where FC value is half the FC at nadir.
 ** Based on RCR2; ceiling 70%; wall 50%; floor 20%. Use S/MH shown for each fixture.
 Distribution curves and S/MH data shown are 90° to lamp axis.

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
1 Triple 32
2 Triple 32

CATALOG NUMBERS
RV91003
RV91204

Detailed Photometry - Installed Fixture

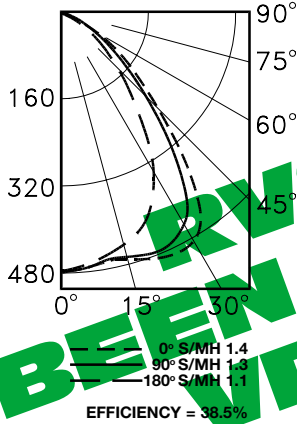
FROM I.T.L. (BOULDER, CO) RV91003: TEST NUMBER 42386
RV91204: TEST NUMBER 42385

RV91003

*LER = 23.8
•AEC = \$10.08

CANDLEPOWER DISTRIBUTION

COEFFICIENTS OF UTILIZATION



	0.0	45.0	90.0	135.0	180.0
0	477	477	477	477	477
5	473	474	474	473	471
15	468	465	467	459	444
30	432	402	390	353	276
45	236	230	216	195	152
55	116	110	107	93	87
60	44	44	42	38	35
75	11	12	11	10	8
85	0	1	1	1	0
90	0	0	0	0	0

	RC	50		10	
		50	30	50	30
RW	43	42	40	39	38
1	43	42	40	39	38
2	40	38	36	34	33
3	37	34	31	29	29
4	35	31	28	26	25
5	32	28	25	23	23
6	30	26	23	21	20
7	28	24	21	19	18
8	26	22	19	17	17
9	25	20	17	15	15
10	23	19	16	14	14

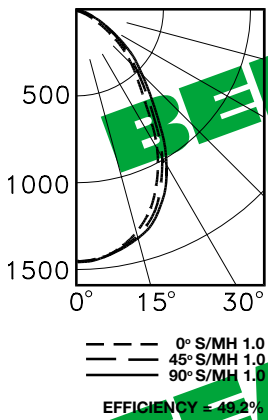
*LER = Luminaire Efficiency (lumens/watt) x Ballast Efficiency (lumens/watt) x Ballast Factor (lumens/watt)
Annual Energy Cost per 1000 lumens (based on 3000 hours @ \$0.08 KWH).

RV91204

*LER = 30.4
•AEC = \$7.89

CANDLEPOWER DISTRIBUTION

COEFFICIENTS OF UTILIZATION



	0.0	22.5	45.0	67.5	90.0
0	1450	1450	1450	1450	1450
5	1432	1432	1436	1441	1442
15	1285	1292	1308	1318	1321
30	1039	1054	1079	1097	1104
45	480	491	519	542	550
55	275	275	292	292	298
60	139	141	144	144	145
75	39	41	44	46	48
85	5	6	6	6	6
90	0	0	0	0	0

	RC	50		10	
		50	30	50	30
RW	55	53	51	50	49
1	55	53	51	50	49
2	51	48	45	43	41
3	47	43	40	37	36
4	44	39	35	32	32
5	41	35	32	29	28
6	38	32	29	26	26
7	36	30	26	23	23
8	33	27	24	21	21
9	31	25	22	19	19
10	30	24	20	18	18

*LER = Luminaire Efficiency (lumens/watt) x Ballast Efficiency (lumens/watt) x Ballast Factor (lumens/watt)
Annual Energy Cost per 1000 lumens (based on 3000 hours @ \$0.08 KWH).

Options

- 39 Installed 32 watt electronic dimming ballast. Consult factory for 18 or 26 watt or for quantity and type required. Also see Options -84, -LE and -WD. Indoor use.
- 40 White grooveless tamperproof flare trim assembly instead.
- 43 Lower wattage triple tube: 1-18 or 1-26 watt (RV91003); 2-28 or 2-26 watt (RV91204).
- 45 Gasket above reflector flange. Stops dust streaks on ceiling.
- 46 Gasket between trim and lens.
- 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.
- 74 Two lamp internal emergency "Ni-Cad" battery pack concealed in housing (RV91204). Indoor use. Switch and visible light located above lens.
- 84 Fixture RV91204 wired for two circuits. See Options -FD and -RD.
- 94 Custom color trim assembly. Consult factory.
- 97 Other voltage ballast. Consult factory.
- 98 347 volt 60 Hz. ballast instead. Consult factory for dimming.
- 99 Special modification. Consult factory.
- CW Cold weather electronic HPF ballast. -18°C to -20°C (0°F to -5°F).
- FS Fused primary. One per fixture. Replaceable. Aids servicing.
- FD Double Fused primary for RV91204 only. One per ballast. Replaceable. For use with -84.
- LE With 4-pin electronic Triple Tube amalgam lamp. 82 CRI and 10,000 hour life. 3500°K or consult factory for 2700°K, 3000°K, 4100°K. Specify wattage and color temperature.
- WD Wall Dimmer for use with Option -39. Consult factory for use with 18 or 26 watt.

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, MAINTENANCE, AND REPAIRS ARE NOT COVERED BY THIS WARRANTY. THE PURCHASER'S OBLIGATION IS TO PROTECT THE FIXTURES FROM PHYSICAL DAMAGE, OVERHEATING, AND OVERVOLTAGE. THE PURCHASER SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF THE FIXTURES. THE WARRANTY IS VOID IF THE FIXTURES ARE USED IN AN UNAUTHORIZED MANNER. THE WARRANTY IS VOID IF THE FIXTURES ARE USED IN AN UNAUTHORIZED MANNER. THE WARRANTY IS VOID IF THE FIXTURES ARE USED IN AN UNAUTHORIZED MANNER.