

Shallow Plenum Regressed Lens

Features

Lamp

- Designed for:
 - 2 horizontal Twin Tube 13 watt: RS90969.
 - 3 horizontal Twin Tube 13 watt: RS90970.
- 2 pin GX23 base.
- See Option -43 for lower wattage.

Ballast

- Thermally protected, encased and potted standard.
- High power factor standard.
- Single circuit wiring. Optional two-circuit wiring. (See Options -48 and -84) Consult factory for three-circuit (RS90970 only).
- 120 volt standard or see optional voltages.
- Visible and easily serviced in all ceilings.

Fuse

- Available as Option -FS (single) or -FD (double). Consult factory for triple.

Reflector

- GlassSurfaced™ multi-faceted specular aluminum.

Trim Assembly

- Tapered black OptiGroove with white flange. Self-flanged trim.
- Regressed, tempered prismatic C#73 lens.

- Torsion springs retain snug fit to ceiling.
- White grooveless flare trim and other lens or trims are optional.

Housing

- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area. Ventilated.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable trim assembly.
- Prewired outlet box; 14GA (NEC) galvanized steel, UL listed. Accessible through fixture opening.
- Built-in plaster frame.

Installation

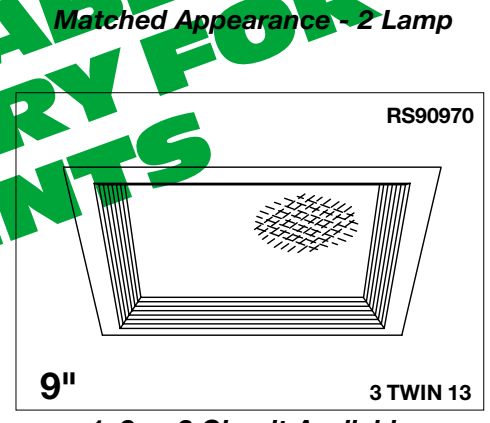
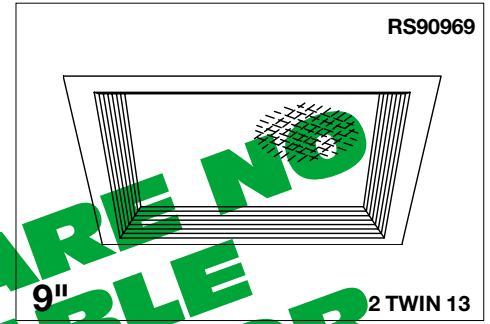
- 27" hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Recesses indoor or outdoor in covered locations.

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.



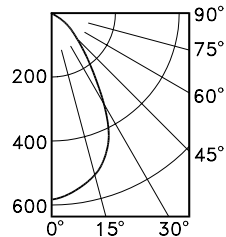
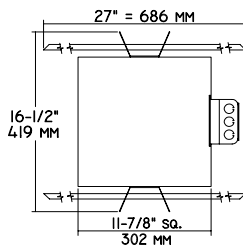
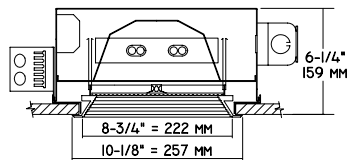
Matched Appearance - 2 Lamp

1, 2 or 3 Circuit Available

THESE FIXTURES ARE NO LONGER AVAILABLE FOR CONSULTANTS

Performance at a Glance

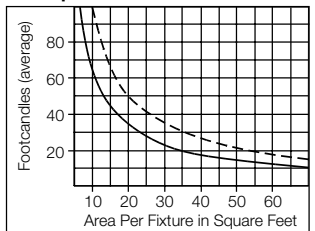
RS90969



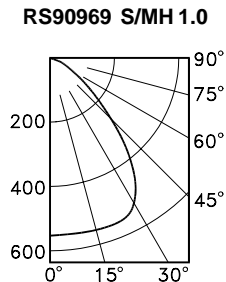
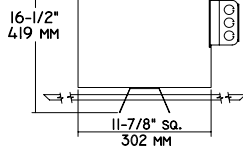
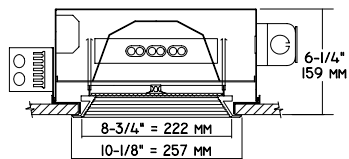
Cone of Light*

Ft.	FC	Dia.
6	16.3	8
8	9.2	10
10	5.9	13
12	4.1	15
14	3.0	18
16	2.3	20

Multiple Fixture FC Calculator **



RS90970



Cone of Light*

Ft.	FC	Dia.
6	15.4	12
8	8.6	16
10	5.5	20
12	3.8	24
14	2.8	28
16	2.2	32

RS90969 ——— RS90970 - - - -

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

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CENTURY SERIES
 ARCHITECTURAL
 COMPACT FLUORESCENT LIGHTING

MAXIMUM WATTAGE
2 Twin 13
3 Twin 13

CATALOG NUMBERS
RS90969
RS90970

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) RS90969: TEST NUMBER 36628
RS90970: TEST NUMBER 36627

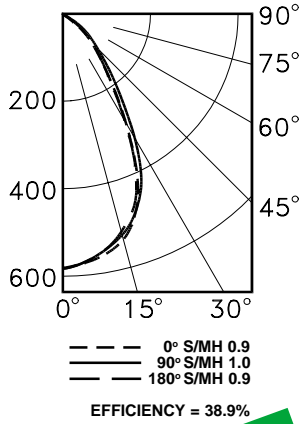
RS90969 *LER = 15.8
*AEC = \$15.15

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	586	586	586	586	586
5	584	581	577	580	579
15	530	526	527	527	522
25	401	413	415	415	398
35	239	260	253	265	238
45	103	121	103	125	102
55	40	44	42	45	40
65	15	17	18	17	16
75	7	6	8	6	7
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20					
	80			50		
	70	50	30	10	50	10
RC						
RW						
1	44	43	42	41	41	39
2	42	40	38	37	38	36
3	40	37	35	34	36	33
4	38	35	33	31	33	30
5	36	32	30	28	31	28
6	34	30	28	26	29	26
7	32	28	26	24	27	24
8	30	26	24	22	26	22
9	28	24	22	20	24	20
10	27	23	21	19	22	19



* LER = Luminaire Efficiency Ratio = (Total Lumens / Total Lamp Lumens) x Ballast Factor
* AEC = Annual Energy Cost per lumens (hours use) = (8 kW x hours use) / (lumens x 1000)

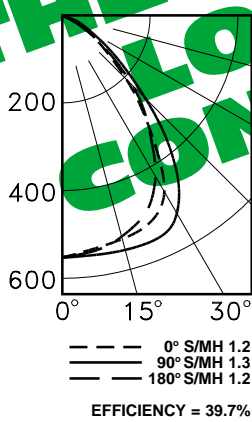
RS90970 *LER = 16.2
*AEC = \$14.85

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	553	553	553	553	553
5	548	549	554	555	551
15	535	540	553	549	529
25	491	511	547	518	468
35	382	418	456	433	369
45	210	256	273	279	222
55	95	112	119	125	103
65	43	45	45	50	44
75	14	14	14	14	13
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20					
	80			50		
	70	50	30	10	50	10
RW						
1	45	43	42	41	41	39
2	42	40	38	36	38	35
3	39	36	34	32	35	31
4	37	33	31	29	32	28
5	34	30	28	26	29	25
6	32	28	25	23	27	23
7	30	25	23	21	25	20
8	28	23	20	19	23	18
9	26	21	18	17	21	16
10	24	20	17	15	19	15



THESE FIXTURES ARE NO LONGER AVAILABLE FOR REPLACEMENTS

Options

- 13 Clear 1/8" flat polycarbonate below, with tempered prismatic flat C#73 lens above.
- 17 Prismatic 3/16" high strength acrylic instead.
- 18 Anopal flat glass. Not enameled. Diffusing.
- 20 White 1/2" cube eggcrate aluminum louver.
- 21 White translucent flat polycarbonate instead.
- 40 White grooveless flare trim with regressed tempered C#73 or specify optional lens.
- 43 Lower wattage: Specify 2TT9 watt (RS90969); 3TT9 watt (RS90970).
- 45 Gasket between trim and ceiling.
- 46 Gasket between trim and lens.
- 48 Center lamp converted to nightlight
- (RS90970). TT13 standard or specify TT9 or TT7. For use with Option-84.
- 58 277 volt 60 Hz. ballast instead.
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing (RS90969 only). Controls one lamp. Switch and visible light located above lens. For indoor use.
- 75 Remote emergency "Ni-Cad" battery pack for RS90970. Four feet of flex provided for maximum mounting distance. For indoor use.
- 84 Fixture wired for two circuits. (RS90970: 1-1 lamp plus 1-2 lamp.) Consult factory for three circuit. See Options -48, -FD and -RD.
- 94 Custom color trim assembly. Consult factory.
- 97 Other voltage ballast. Consult factory.
- 98 347 volt 60 Hz. ballast instead.
- 99 Special modification. Consult factory.
- FD Double Fused primary. One per ballast. Replaceable. For use with Option -84. Consult factory for triple.
- FR Fresnel tempered regressed lens. Concentric.
- FS Fused primary. One per fixture. Replaceable. Aids servicing.
- LP With lamps. 2700°K or consult factory. Specify wattage and color temperature.
- RD Double radio interference filter. For use with Option -84. Consult factory for triple.
- RF Radio interference filter. Eliminates line feedback.

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, ETC., IS 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 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 in place of all 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 of 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 void.