

Regressed Lens: Indoor - Outdoor

Features

Lamp

- Designed for:
 - 2 horizontal Twin Tube 13 watt: RR90939.
 - 2 horizontal Quad 26 watt: RR90940.
- 2 pin GX23 base: RR90939.
- 2 pin G24d-3 base: RR90940.
- 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 Option -84)
- 120 volt standard or see optional voltages.
- Dimming optional for RR90940. (See -39)
- Electronic optional for RR90940. (See -96)
- Visible and easily serviced in all ceilings.

Fuse

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

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- Prismatic tempered shock-resisting low brightness C#73 spread distribution lens.
- Torsion springs retain snug fit to ceiling.

- White flare trim, flat trim or eggcrate louver available. See Options.
- Anopal, acrylic, or polycarbonate lens available. See Options.

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.
- Rewired 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.



2 TWIN 13

Optional Flat Trim or Regressed Flare

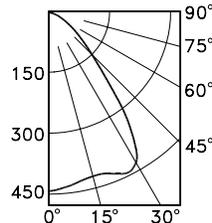
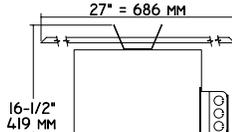
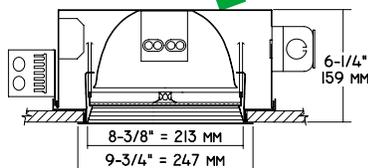


2 QUAD 26

Dimming Optional

Performance at a Glance

RR90939



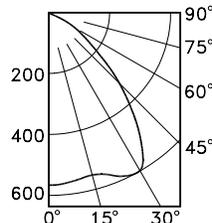
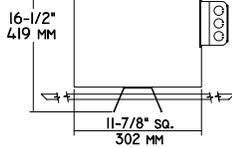
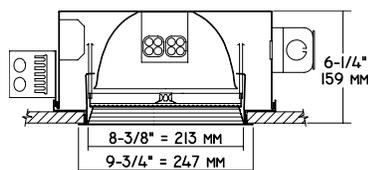
RR90939 S/MH 1.3

Cone of Light*

Ft.	FC	Dia.
6	12.2	7.4
8	6.8	9.8
10	4.4	12.3
12	3.0	14.8
14	2.2	17.2
16	1.7	19.7

RR90939

RR90940



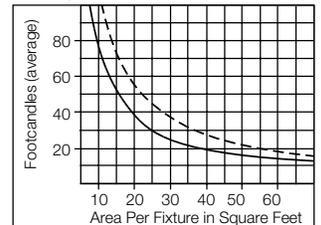
RR90940 S/MH 1.5

Cone of Light*

Ft.	FC	Dia.
6	15.8	7.9
8	8.9	10.5
10	5.7	13.1
12	3.9	15.7
14	2.9	18.3
16	2.2	21.0

RR90940

Multiple Fixture FC Calculator **



RR90939 ——— RR90940 - - - - -

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
 2 Quad 26

CATALOG NUMBERS

RR90939
 RR90940

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

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO) RR90939: TEST NUMBER 40090
RR90940: TEST NUMBER 40095

RR90939

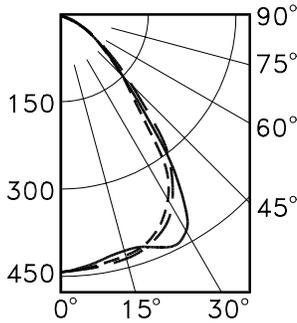
*LER = 18.2
•AEC = \$13.19

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	438	438	438	438	438
5	435	433	432	432	435
15	414	409	414	410	415
25	390	403	433	410	394
35	314	343	343	349	331
45	157	167	163	173	172
55	77	78	73	80	84
65	30	33	34	35	32
75	11	11	11	12	13
85	0	1	1	1	1
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20							
	80				50			
RC								
RW	70	50	30	10	50	30	10	50
1	50	48	47	46	45	44	43	42
2	46	44	41	39	41	40	38	37
3	43	39	37	34	38	35	33	32
4	40	36	33	30	34	32	30	29
5	37	33	29	27	31	29	27	26
6	35	30	27	24	29	26	24	23
7	33	28	24	22	27	24	22	21
8	31	25	22	20	25	22	20	19
9	29	24	20	18	23	20	18	17
10	27	22	19	17	21	18	17	16



--- 0° S/MH 1.2
--- 90° S/MH 1.3
--- 180° S/MH 1.3
EFFICIENCY = 44.7%

LER = Luminaire Efficacy Ratio
AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

RR90940

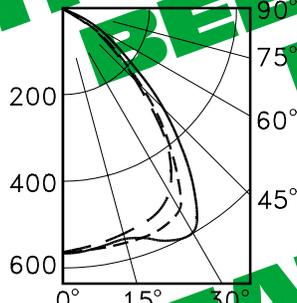
*LER = 17.0
•AEC = \$14.08

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	568	568	568	568	568
5	566	564	563	561	559
15	556	554	549	538	533
25	545	563	586	541	505
35	462	525	563	504	444
45	249	289	310	276	235
55	116	133	145	124	106
65	57	57	55	53	51
75	19	19	17	16	15
85	1	1	1	1	1
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	80							
	50				25			
RC								
RW	70	50	30	10	50	30	10	50
1	37	36	34	33	33	33	32	31
2	34	32	30	29	30	29	28	27
3	32	29	27	25	27	26	24	23
4	29	26	24	22	25	23	21	20
5	27	24	21	19	23	21	19	18
6	25	22	19	17	21	19	17	16
7	24	20	17	15	19	17	15	14
8	22	18	16	14	18	15	14	13
9	21	17	14	13	16	14	13	12
10	20	16	13	12	15	13	12	11



--- 0° S/MH 1.3
--- 90° S/MH 1.5
--- 180° S/MH 1.3
EFFICIENCY = 32.9%

LER = Luminaire Efficacy Ratio
AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

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.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 39 Installed Quad electronic dimming ballast for RR90940. Consult factory for quantity and type required. Also see -84, -LE and -WD.
- 40 White grooveless flare trim with regressed tempered C#73 or specify optional lens.
- 43 Lower wattage: Specify 2TT9 watt (RR90939); 2Q18 watt (RR90940).
- 45 Gasket between trim and ceiling.
- 46 Gasket between trim and lens.
- 58 277 volt 60 Hz. ballast instead.
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing. Controls one lamp. Switch and visible light located above lens. For indoor use.
- 74 Internal 2 lamp emergency "Ni-Cad" battery pack for use with 4-pin electronic lamps only (RR90940). Use with Option -96.
- 76 Drop white acrylic diffuser instead.
- 82 Sloped ceiling adapter. Specify slope up to 30° in 5° increments.
- 84 Fixture wired for two circuits. See -FD and -RD.
- 94 Custom color trim assembly. Consult factory.
- 96 Regulating electronic high power factor 0°F single circuit Quad ballast instead for RR90940. See Options -74, -84, -LE.
- 97 Other voltage ballast. Consult factory.
- 98 347 volt 60 Hz. ballast instead. Consult factory for dimming.
- 99 Special modification. Consult factory.
- FD Double Fused primary. Replaceable. Use with -84.
- FR Fresnel tempered lens. Concentric prisms.
- FS Fused primary. Replaceable. Aids servicing.
- FT Flat white trim instead. With tempered prismatic C#73 spread lens or specify other lens.
- HO Holophane concave prismatic tempered lens.
- LE With 4-pin electronic lamps for use with -39, -74 or -96 (RR90940). 2700°K or consult factory. Specify wattage and color temperature.
- LP With lamps. 2700°K or consult factory. Specify wattage and color temperature. Also see -LE.
- RD Double radio interference filter. Use with -84.
- RF Radio interference filter. Eliminates line feedback.
- WD Wall Dimmer for use with Option -39 (RR90940).

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 THE RESPONSIBILITY OF THE USER. THE PURCHASER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE FIXTURES FROM DAMAGE. THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY DAMAGE TO THE FIXTURES OR TO THE USER'S PROPERTY OR PERSON. THIS WARRANTY IS SUPPLIED ON THE CONDITION THAT THE USER SHALL MAINTAIN THE FIXTURES IN ACCORDANCE WITH THE INSTRUCTIONS AND WARNINGS EXPRESSED OR IMPLIED. SELLER DOES NOT WARRANT ANY MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. ADDITIONAL STATEMENTS, CONDITIONS, OR MODIFICATIONS OF THIS WARRANTY WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE MANUFACTURER WILL VOID THE WARRANTY.