

8" Regressed Lensed Downlights

Features

Lamp

- Designed for:
 - 1 vertical Triple Tube 32 watt: RR80823.
 - 1 horizontal Triple Tube 42 watt: RR80824.
- 4-pin GX24q-3 base: RR80823.
- 4-pin GX24q-4 base: RR80824.
- 90% lumen output maintained at ballast minimum operating temperature.
- Flicker-free starting, high light output, excellent color rendering (82 CRI).
- Long 10,000 hour life.
- High efficiency with low operating costs.
- See Option -43 for lower wattage.

Ballast

- Regulating electronic high power factor, thermally protected, encased.
- RR80823: -5° to -10°C (44° - 23°F) rated. Cold weather available, see Option -CW.
- RR80824: Cold weather standard, -18°C to -20°C (0°F to -5°F) rated.
- Built-in RIF filter. THD is less than 10%.
- 120 volt standard or see optional voltages.
- Dimming optional. See Option -39 for availability and restrictions.
- Visible and easily serviced in all ceilings.

Fuse

- Available as Option -FS.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

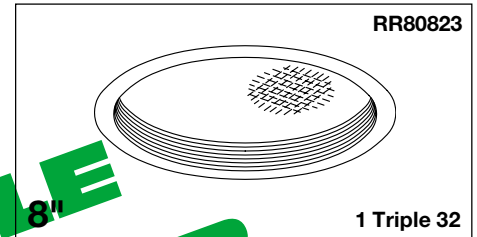
- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- Regressed prismatic tempered low brightness C#73 spread distribution lens.
- Torsion springs retain snug fit to ceiling.
- White flare trim, flat trim or eggcrate louver available. See Options.
- Acrylic or fresnel lens; anoplat or polycarbonate 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.
- Pre-wired outlet box, 14GA (NEC) galvanized steel, UL listed. Accessible through fixture opening.
- Built-in plaster frame.

Installation

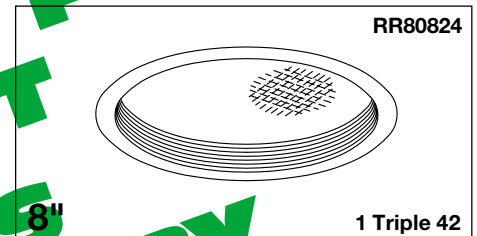
- 27" hanger bars supplied (2).
- Fully adjustable universal mounting



8"

1 Triple 32

Dimming Optional



8"

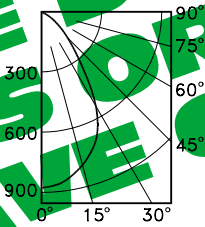
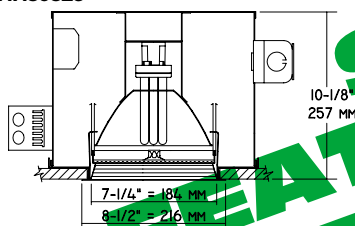
1 Triple 42

Shallow Depth

- 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.

Performance at a Glance

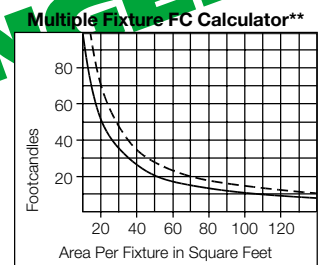
RR80823



RR80823 S/MH 1.0

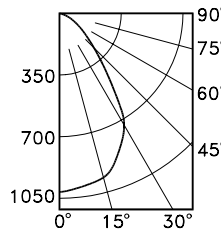
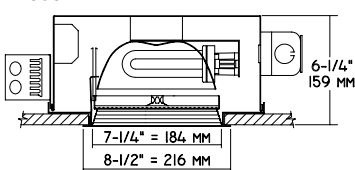
Ft.	FC	Dia.
6	24.3	5.4
8	13.6	7.2
10	8.7	9.1
12	6.1	10.9
14	4.5	12.7
16	3.4	14.5

RR80823



RR80823 ——— RR80824 - - - -

RR80824



RR80824 S/MH 1.1

Ft.	FC	Dia.
6	27.8	6.3
8	15.6	8.4
10	10.0	10.4
12	7.0	12.5
14	5.1	14.6
16	3.9	16.7

RR80824

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 curve and S/MH shown for RR80824 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

SECOND CENTURY SERIES
TRIPLE TUBE
COMPACT FLUORESCENT LIGHTING

MAXIMUM WATTAGE
1 Triple 32
1 Triple 42

CATALOG NUMBERS
RR80823
RR80824

DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO) RR80823: TEST NUMBER 42388
RR80824: TEST NUMBER 45264

RR80823

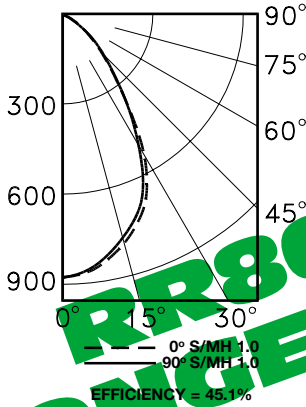
*LER = 30.2
•AEC = \$7.94

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	873	873	873	873	873
5	858	858	856	855	855
15	770	764	755	755	757
25	616	609	598	597	601
35	388	387	385	385	391
45	189	191	185	187	190
55	79	81	85	88	87
65	36	37	36	34	35
75	10	11	10	10	10
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20							
	80				50			
RC	70	50	30	10	50	30	10	
1	70	50	30	10	50	30	10	
2	51	49	48	47	46	45	44	
3	47	45	43	41	43	41	39	
4	44	41	38	36	39	37	35	
5	42	38	35	32	36	34	32	
6	39	35	31	29	33	31	29	
7	37	32	29	27	31	28	26	
8	35	30	26	24	29	26	24	
9	33	28	24	22	27	24	22	
10	31	26	23	21	25	22	21	
11	29	24	21	19	24	21	19	



* LER = Luminaire Efficiency Rating
LER = Luminaire Effic. x Total Lamp Lumens x Ballast Factor / Input Watts

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

RR80824

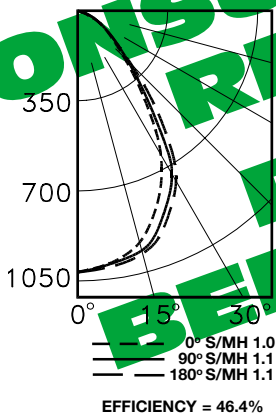
*LER = 31.3
•AEC = \$7.66

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	1001	1001	1001	1001	1001
5	995	994	995	998	1002
15	937	946	954	961	969
25	765	807	828	835	854
35	516	551	568	580	612
45	261	267	367	281	298
55	103	115	129	118	122
65	48	54	51	56	51
75	12	15	17	15	14
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20							
	80				50			
RC	70	50	30	10	50	30	10	
1	70	50	30	10	50	30	10	
2	52	50	49	48	47	46	46	
3	49	46	44	42	43	42	40	
4	45	42	39	37	40	38	36	
5	43	38	35	33	37	34	32	
6	40	35	32	29	34	31	29	
7	37	32	29	27	31	28	26	
8	35	30	27	24	29	26	24	
9	33	28	24	22	27	24	22	
10	31	26	23	20	25	22	20	
11	29	24	21	19	23	21	19	



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Options

- 13 Clear 1/8" flat polycarbonate below, with 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 cover.
- 21 White translucent flat polycarbonate instead.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 39 Installed electronic dimming ballast. Consult factory for 18 or 26 watt or for quantity and type required. Also see Options -LE and -WD. Indoor use.
- 40 White grooveless flare trim with regressed

- 43 Lower wattage triple tube. Specify 26 or 18 watt (RR80823); 32, 26 or 18 watt (RR80824).
- 45 Gasket above trim flange (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. Switch and visible light located above lens. For indoor use.
- 82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
- 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 for RR80823. -18°C to -20°C (0°F to -5°F). (Standard for RR80824.)
- FR Fresnel tempered lens. Concentric prisms.
- FS Fused. Replaceable. Aids servicing.
- FT Flat white trim instead. With tempered prismatic C#73 lens or specify optional lens.
- 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 or 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 _____

RR80823 IS NO LONGER AVAILABLE FOR REPLACEMENT BY RR80824 HAS BEEN REPLACED BY RR-0703 SOME DESIGNATIONS OR OPTIONS HAVE CHANGED

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION, ETC., IS NOT 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 office of manufacturer within the year 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 on the understanding that other warranties, expressed or implied, shall not be construed as a warranty of or against the manufacturer. Manufacturer's liability is limited to the amount of the purchase price of the fixture without prior written authorization from the manufacturer.