

Type IC Open Downlights

Features

Lamp

- Designed for:
 - 1 vertical Triple Tube 32 watt: RR80703.
 - 1 vertical Triple Tube 42 watt: RR80704.
- 4 pin GX24q-3 base: RR80703.
- 4 pin GX24q-4 base: RR80704.
- 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.
- RR80703: -5° to -10°C (14° - 23°F) rated. Cold weather available, see Option -CW.
- RR80704: 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

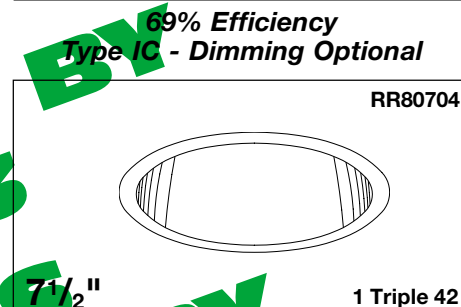
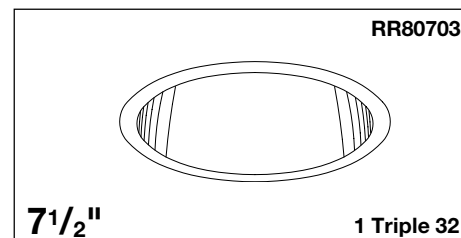
- Self-flanged low iridescence specular Alzak® aluminum reflector.
- Optional SofTex softly etched Clear, Dune, Champagne Gold or Wheat available.
- Optional OptiGroove assembly available.

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 reflector.
- 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).
- Reflector and socket bracket adjust as unit for ease of installation.
- Recesses indoor or outdoor in covered locations.



69% Efficiency
Type IC - Dimming Optional

69% Efficiency
Type IC

UL, C-UL (Canada) Listings

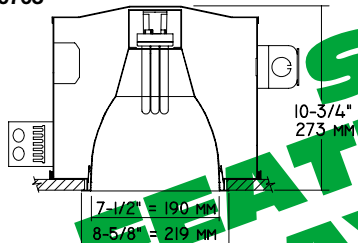
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).
- Type IC - Approved for direct contact with insulation.

Three Year Limited Warranty

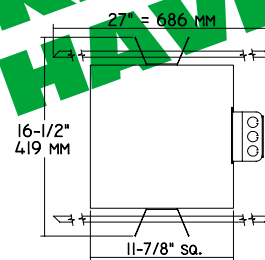
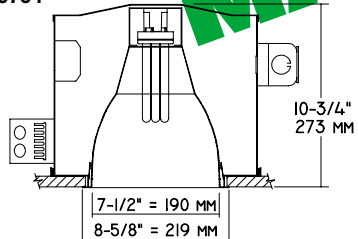
- Complete standard fixture.

Performance at a Glance

RR80703



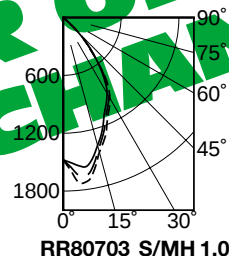
RR80704



Cone of Light Key

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

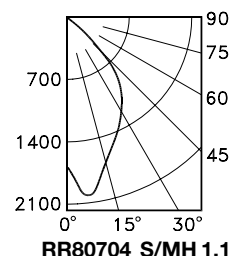
* Dia. (in ft.) shown is where FC value is half the FC at nadir.



RR80703 S/MH 1.0

Ft.	FC	Dia.
6	41.0	5.9
8	23.1	7.9
10	14.8	9.9
12	10.3	11.9
14	7.5	13.9
16	5.8	15.8

RR80703



RR80704 S/MH 1.1

Ft.	FC	Dia.
6	46.0	5.9
8	25.9	7.8
10	16.5	9.8
12	11.5	11.7
14	8.4	13.7
16	6.5	15.6

RR80704

THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.light-link.com/kirlin

SECOND CENTURY SERIES
TRIPLE TUBE
COMPACT FLUORESCENT LIGHTING

MAXIMUM WATTAGE

1 Triple 32
1 Triple 42

CATALOG NUMBERS

RR80703
RR80704

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

Alzak® is a registered trademark of ALCOA.

RR80703 RR80704

RECESSED ROUND: TRIPLE TUBE 32 and 42 WATT COMPACT FLUORESCENT

KIRLIN

Detailed Photometry - Installed Fixture

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

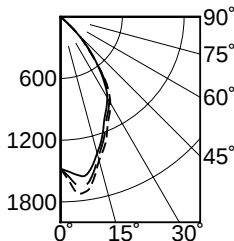
RR80703: TEST NUMBER 47345
RR80703-70: TEST NUMBER 48590
RR80704: TEST NUMBER 44207

RR80703

*LER = 46.1
•AEC = \$5.21

--- 0° S/MH 1.0
--- 45° S/MH 1.0
--- 90° S/MH 1.0

EFFICIENCY = 68.7%



CANDLEPOWER DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	
0	1477	1477	1477	1477	1477	1477
5	1708	1691	1629	1576	1534	1534
15	1446	1392	1411	1380	1373	1373
25	1102	1062	1069	1027	1033	1033
35	762	738	743	712	706	706
45	260	244	251	243	228	228
55	2	2	2	2	2	2
65	0	0	0	0	0	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0

COEFFICIENTS OF UTILIZATION						
RF	20					
RC	80					
RW	70	50	30	10	50	30
1	78	76	74	73	72	70
2	74	70	68	65	67	65
3	70	65	62	59	63	60
4	66	61	57	54	59	55
5	63	57	53	49	55	51
6	59	53	49	46	51	48
7	55	50	46	42	48	44
8	53	48	44	40	45	42
9	50	44	40	37	43	39
10	48	41	37	34	40	36

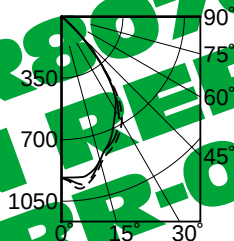
RR80703-70

(CLEAR SOFTX)

*LER = 32.0
•AEC = \$7.50

--- 0° S/MH 1.1
--- 45° S/MH 1.1
--- 90° S/MH 1.0

EFFICIENCY = 47.7%



CANDLEPOWER DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	
0	916	916	916	916	916	916
5	977	969	949	926	918	918
15	866	852	843	847	847	847
25	739	709	736	720	696	696
35	561	554	527	520	517	517
45	339	362	359	370	313	313
55	17	17	17	17	16	16
65	5	6	5	5	5	5
75	3	2	2	2	2	2
85	0	0	0	0	0	0
90	0	0	0	0	0	0

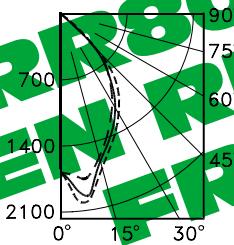
COEFFICIENTS OF UTILIZATION						
RC	20					
RW	70	50	30	10	50	30
1	54	53	51	50	50	49
2	51	48	46	45	46	45
3	48	45	42	40	43	41
4	45	41	39	36	40	38
5	43	38	35	32	37	35
6	40	36	33	30	35	30
7	38	33	30	28	32	28
8	36	31	28	26	30	26
9	34	29	26	24	28	26
10	32	27	24	22	27	24

RR80704

*LER = 46.5
•AEC = \$5.16

--- 0° S/MH 1.1
--- 45° S/MH 1.1
--- 90° S/MH 1.0

EFFICIENCY = 68.8%



CANDLEPOWER DISTRIBUTION						
	0.0	22.5	45.0	67.5	90.0	
0	1655	1655	1655	1655	1655	1655
5	1988	1933	1836	1793	1694	1694
15	1662	1672	1603	1552	1554	1554
25	1295	1308	1283	1211	1161	1161
35	1005	1003	914	896	886	886
45	540	546	500	535	520	520
55	4	4	5	10	10	10
65	0	0	0	0	0	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0

COEFFICIENTS OF UTILIZATION						
RC	20					
RW	70	50	30	10	50	30
1	78	76	74	73	72	70
2	73	70	67	64	66	64
3	69	64	61	58	62	59
4	65	60	56	52	57	54
5	61	55	51	47	53	49
6	58	51	47	43	49	46
7	55	47	43	40	46	42
8	51	44	40	37	43	39
9	48	41	37	34	40	36
10	46	39	34	31	38	34

Estimated Multipliers

-70 SoftTex Clear: CP x .93
-71 SoftTex Dune: CP x .87
-80 SoftTex Champagne Gold: CP x .90
-91 SoftTex Wheat: CP x .87
-OG OptiGroove: CP x .75

Options

- 31 White reflector trim, self-flanged.
- 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.
- 43 Lower wattage triple tube: RR80703: Specify 18 or 26 watt.
- 45 Gasket above reflector flange. Stops dust streaks on ceiling.
- 58 277 volt 60 Hz. ballast instead.
- 70 SoftTex Clear softly etched self-flanged reflector. Resists smudges. (CP x .93)

- 71 SoftTex Dune softly etched self-flanged reflector. Resists smudges. (CP x .87)
- 73 Internal emergency "Ni-Cad" battery pack concealed in housing. Switch and light unobtrusively located inside reflector. Indoor use.
- 79 Extension collar for up to 2" thick ceilings.
- 82 Sloped ceiling adapter. Specify slope in 5° increments up to 30°.
- 90 SoftTex Champagne Gold softly etched self-flanged reflector. Resists smudges. (CP x .90)
- 91 SoftTex Wheat softly etched self-flanged reflector. Resists smudges. (CP x .87)
- 94 Specular Pewter or Umber or other specified custom color self-flanged reflector. 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 RR80703. -18°C to -20°C (0°F to -5°F). (Standard for RR80704.)
- FS Fused. Replaceable. Aids servicing.
- 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.
- OG OptiGroove black seamless tapered aluminum assembly. White trim, self-flanged. (CP x .75)
- 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: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IN 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 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 to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.

* LER = Luminaire Efficiency Rating
LER = Luminaire Efficacy x Total Lamp Lumens x Ballast Factor
Input Watts

* AEC = Annual Energy Cost
1000 lumens (lm) on 100 hours use @ \$0.10/kWh