

Type IC / Shallow Plenum Open Downlights

Features

Lamp

- Designed for:
 - 1 vertical Triple Tube 42 watt: RR80658.
 - 1 horizontal Triple Tube 42 watt: RR80659.
- 4 pin GX24q-4 base.
- 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.
- Minimum starting temperature 0°F (-18°C).
- Standard with built-in end of lamp life (EOL) protection circuit.
- Built-in RIF filter.
- 120 volt standard or see optional voltages.
- Dimming optional. See Option -39.
- Visible and easily serviced in all ceilings.

Fuse

- Available as Option -FS.

Reflector

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

- Optional OptiGroove cone 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

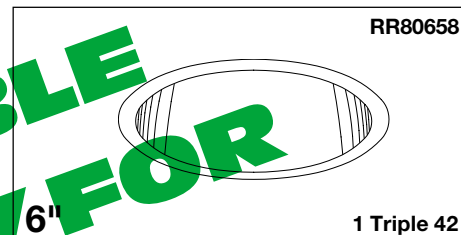
- 27" hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Reflector and socket bracket adjust as unit for ease of installation.
- Recesses indoor or outdoor in covered locations.

UL, C-UL (Canada) Listings

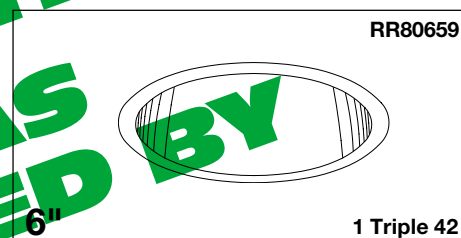
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).
- Type IC. Approved for direct contact with insulation.

Three Year Limited Warranty

- Complete standard fixture.



Now Approved for Type IC
Dimming Optional

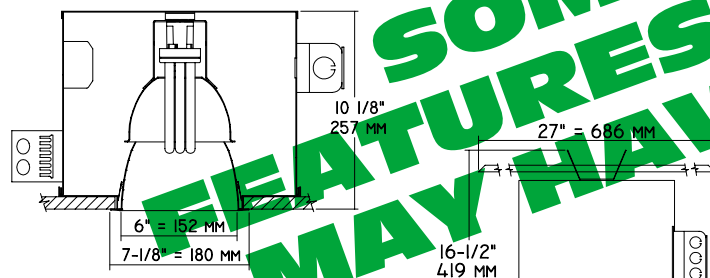


Only 6 1/4" Installed Depth

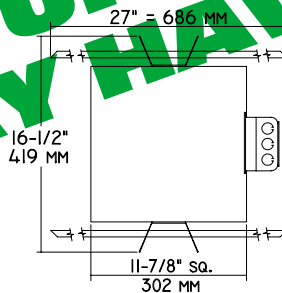
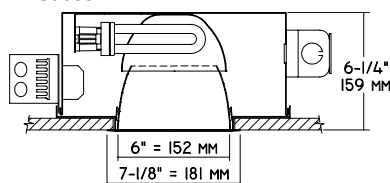
SofTex Clear, Dune,
Champagne Gold or Wheat
Lower Cone Finishes
Available

Performance at a Glance

RR80658

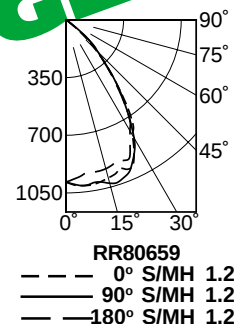
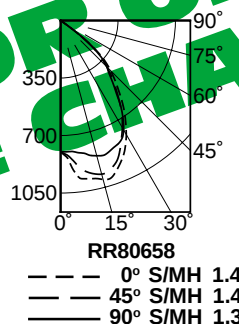


RR80659



Cone of Light Key

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



Cone of Light*

Ft.	FC	Dia.
6	22.2	8.0
8	12.5	10.6
10	8.0	13.3
12	5.5	15.9
14	4.1	18.6
16	3.1	21.2

Cone of Light*

Ft.	FC	Dia.
6	27.3	7.3
8	15.4	9.7
10	9.8	12.2
12	6.8	14.6
14	5.0	17.0
16	3.8	19.5

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

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 42
1 Triple 42

CATALOG NUMBERS

RR80658
RR80659

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) RR80658: TEST NUMBER 48483
RR80659: TEST NUMBER 48485

RR80658

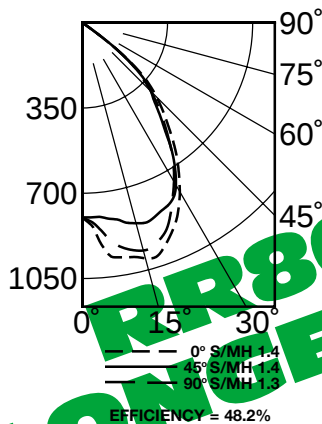
*LER = 28.9
•AEC = \$8.30

CANDLEPOWER DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	799	799	799	799	799
5	916	892	853	821	800
15	1001	997	966	883	852
25	906	901	860	847	829
35	678	664	637	658	641
45	432	429	400	407	399
55	23	27	28	28	31
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20	50	10	50	10
RC	0	50	20	10	50
1	54	53	51	50	49
2	51	48	46	44	43
3	48	44	41	39	38
4	45	41	37	35	34
5	42	37	34	31	31
6	39	34	31	28	28
7	37	32	28	26	25
8	35	29	26	23	23
9	33	27	24	21	21
10	31	25	22	20	20



* LER = Luminaire Efficacy 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).

RR80659

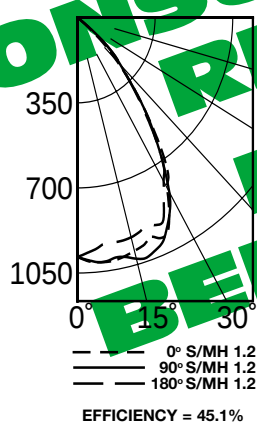
*LER = 27.1
•AEC = \$8.87

CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	984	984	984	984	984
5	1009	1014	1009	977	955
15	993	1031	1026	957	935
25	967	980	954	918	917
35	658	701	623	600	622
45	251	262	274	246	279
55	8	20	18	18	20
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20	50	10	50	10
RC	0	50	30	10	50
1	51	50	48	47	46
2	48	46	44	42	41
3	45	42	40	38	37
4	43	39	36	34	33
5	40	36	33	31	30
6	38	33	30	28	28
7	36	31	28	26	26
8	34	29	26	24	24
9	32	27	24	22	22
10	30	25	22	20	20



Estimated Multipliers

- 30 White: CP x .95
- 70 SoftTex Clear: CP x .93
- 71 SoftTex Dune: CP x .87
- 72 Black Alzak: CP x .77
- 90 SoftTex Champagne Gold: CP x .90
- 91 SoftTex Wheat: CP x .87
- OG OptiGroove: CP x .75

Options

- 30 All white lower cone, self-flanged. (CP x .95)
- 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. Also see Options -LE and -WD. Indoor use.
- 43 Lower wattage triple tube: Specify 18, 26 or 32 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)
- 72 Black specular Alzak self-flanged lower cone. (CP x .77)
- 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.
- FS Single fused primary. Replaceable. Aids servicing.
- LE With 4-pin electronic Triple Tube amalgam lamp. 82 CRI and 10,000 hour life. Consult factory for compatibility with GE 42 watt lamps. 3500°K or consult factory for 2700°K, 3000°K or 4100°K. Specify wattage and color temperature.
- OG OptiGroove black seamless tapered aluminum lower cone. White trim, self-flanged. (CP x .75)
- WD Wall Dimmer for use with Option -39. Consult factory for type and quantity required.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____