

CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

13" x 13" 2 Triple 42 WATT MAXIMUM

FSS-13116

## Streamlined Surface with Kirlin "K" Lens

### Features

#### Lamp

- Designed for two 4-pin triple tube amalgam or quad compact fluorescent lamp(s): 42/32/26W triple or 26W quad.

#### Ballast: Multi-Tap

- Installed electronic high power factor, thermally protected. For lower wattages: Option -43.
- 120-277 multi-volt; 50/60 Hz. THD < 10%.
- ClickQuick connectors for easy service.
- Single circuit wiring or see Option -89.
- Cold weather -22°F (-30°C).
- End of lamp life protection circuit. RFI filter.
- Internally fused. Also see Options -FS, -FD.

#### Reflector

- GlasSurface™ multi-faceted glass reflector.

#### Trim Assembly

- Shock-resistant, UV absorbing, prismatic, prismatic Kirlin lens. See Options for others.
- Rustfree polished nickel stainless door (304-L)

and captive thumb screw. Concealed hinges for fast relamping.

- Attractively beveled cast aluminum frame tooled to ensure close fit with door. White acrylic finish.

#### Aluminum Housing

- Rigid, rustproof, with white enameled finish. Exceeds 1000 hour ASTM 5% salt spray test.

- Cool operation: Extends component life.

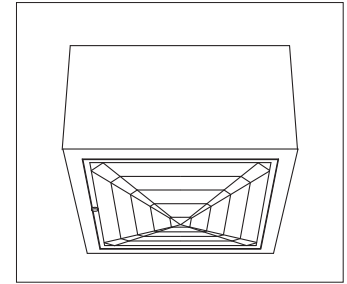
#### Installation

- Center point mounting for snug fit to ceiling. Mounting hardware included.
- 2 pole 120/277V J-box (not included).
- Wet location break mount available. (See Option -M, -MF)
- Indoor or outdoor for covered ceiling use. (See Option -89)

#### Listings

- Wet location break mount for covered ceiling. (See Option -89)

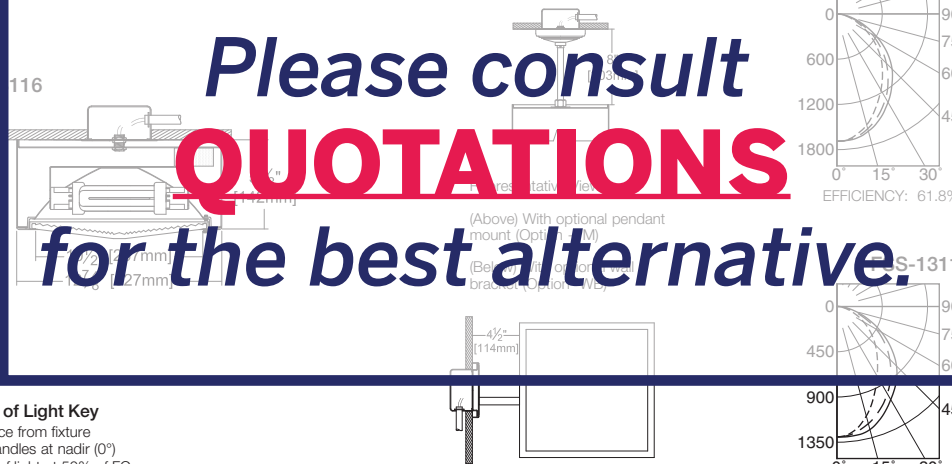
- Complete standard fixture and ballast.



**THIS PRODUCT IS NO LONGER AVAILABLE**

### Performance at a Glance

FSS-13116



**Cone of Light Key**  
**Ft.** Distance from fixture  
**FC** Footcandles at nadir (0°)  
**Dia.** Circle of light at 50% of FC  
 • Dia. (in ft.) shown is where FC value is half the FC at nadir.

FSS-13116 (2 Triple 42W)

#### Cone of Light\*

Dist.	FC	Dia.
6	46.9	6.4
8	26.4	8.5
10	16.9	10.6
12	11.7	12.8
14	8.6	14.9
16	6.6	17.0

--- 0° SC 1.1  
 --- 45° SC 1.2  
 --- 90° SC 1.2

FSS-13116 (2 Triple 32W)

#### Cone of Light\*

Dist.	FC	Dia.
6	36.0	6.3
8	20.3	8.4
10	13.0	10.5
12	9.0	12.6
14	6.6	14.7
16	5.1	16.8

--- 0° SC 1.0  
 --- 45° SC 1.1  
 --- 90° SC 1.2

## THE KIRLIN COMPANY

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RENAISSANCE SERIES  
 COMPACT FLUORESCENT LIGHTING

MAXIMUM WATTAGE

2 Triple 42

CATALOG NUMBER

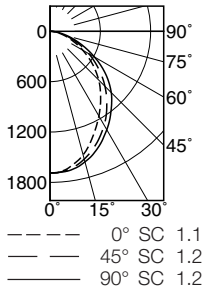
FSS-13116

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

## Detailed Photometry - Installed Fixture

Photometry from I.T.L., Boulder, CO

### FSS-13116 (2 Triple 42)



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1688	1688	1688	1688	1688
5	1671	1670	1677	1683	1683
15	1524	1542	1576	1602	1610
25	1284	1333	1397	1440	1454
35	1050	1113	1175	1223	1251
45	821	888	926	982	1033
55	574	639	663	717	763
65	340	388	409	435	466
75	158	181	191	202	224
85	44	48	49	56	63
90	10	12	10	15	18

COEFFICIENTS OF UTILIZATION						
RF	20					
RC	80		10		50	
RW	70	50	30	10	50	10
1	68	65	62	60	61	59
2	62	57	53	50	54	51
3	57	51	46	42	48	44
4	52	45	40	36	43	38
5	48	40	35	31	38	34
6	45	37	31	27	35	30
7	41	33	28	24	32	27
8	39	30	25	22	29	25
9	36	28	23	20	27	23
10	34	26	21	18	25	21

ITL TEST #45274 \*LER=37.2 •AEC=\$6.36

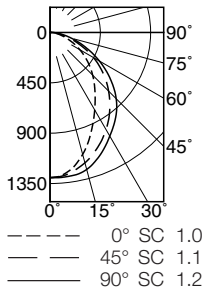
EFFICIENCY : 61.8%

\* LER = Luminaire Efficiency Rating

$$LER = \frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$$

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

### FSS-13116 (2 Triple 32)



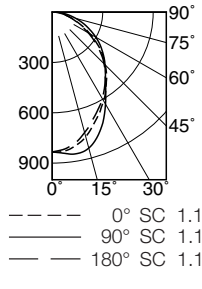
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1297	1297	1297	1297	1297
5	1278	1278	1287	1294	1299
15	1128	1150	1206	1252	1267
25	905	968	1078	1132	1144
35	704	803	921	967	999
45	539	654	741	786	837
55	382	484	549	567	624
65	235	304	345	351	398
75	109	140	161	168	198
85	31	39	44	51	63
90	10	14	14	18	24

COEFFICIENTS OF UTILIZATION						
RF	20					
RC	80		10		50	
RW	70	50	30	10	50	10
1	70	67	64	62	63	61
2	64	59	55	51	55	52
3	59	52	47	43	49	45
4	54	46	41	37	44	39
5	50	42	36	32	40	35
6	46	38	32	28	36	31
7	43	34	29	25	33	28
8	40	31	26	22	30	25
9	37	29	24	20	28	23
10	35	27	22	18	26	21

ITL TEST #42486 \*LER=37.1 •AEC=\$6.48

EFFICIENCY : 64.0%

### FSS-13116 (2 Quad 26)



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	833	833	833	833	833
5	831	839	845	829	820
15	769	825	839	786	743
25	664	712	717	662	642
35	556	537	554	508	543
45	446	285	443	378	435
55	323	280	350	281	310
65	198	198	246	197	189
75	97	112	146	109	99
85	33	38	57	37	37
90	13	13	23	12	15

COEFFICIENTS OF UTILIZATION						
RF	20					
RC	80		10		50	
RW	70	50	30	10	50	10
1	58	56	54	52	52	51
2	53	49	45	42	46	43
3	49	43	39	36	41	38
4	45	39	34	31	37	33
5	41	35	30	27	33	29
6	38	32	27	24	30	26
7	36	29	24	21	28	24
8	33	26	22	19	25	21
9	31	24	20	17	23	20
10	29	23	18	16	22	18

ITL TEST #41109 \*LER=30.9 •AEC=\$7.77

EFFICIENCY : 53.5%

## Options

### Ballast, Wattage and Voltage

- 39 Installed electronic dimming ballast. Indoor use. 10°C (50°F) minimum start. Specify wattage, voltage and brand.
- 43 Lower wattage: for either 4-pin electronic 2x18W triple/quad or 2x13W quad (only). Specify wattage.
- 84 Wired for two circuits. Also see -FD.
- 97 Specify other voltage. Consult factory.
- 98 347 volt, 50/60 Hz. input. Consult factory.

### Emergency Ballast - Specify Voltage<sup>1</sup>

- Internal (factory installed) ballast, test switch and indicator light. Suitable for damp locations from 0° to 50°C (32° to 122°F) or with Cold Weather version (see -CE) -20° to 55°C (-4° to 131°F).
- 73 Internal 1-lamp EM ballast. Specify voltage.
- CE Internal cold weather (-20° to 55°C) 1-lamp EM ballast. Specify voltage.
- HE<sup>1</sup> Internal higher lumen (up to 1250) 1-lamp EM ballast. 13-42W only. Specify voltage.

### Lenses and Trims

- 13 Vandal resistant tempered prismatic C#73 spread lens above 1/8" flat polycarbonate.
- 14 Drop opal glass diffuser.
- 15 Prismatic C#73 tempered glass lens.
- 17 .187" prismatic high strength acrylic lens.
- 18 Opal flat glass diffuser.
- 20 White aluminum 1/2" cube egg-crate louver.
- 21 White flat polycarbonate diffuser.
- 26 Tamper-resistant button head recessed hex screw with center pin and 1 key / 10 fixtures.
- 45 Gasket between trim and housing.
- 46 Gasket between trim and lens.
- CF High temperature color filter. Specify color. Use with -13, -15, -17, -18, -21 only.
- DG Drop Guard with tempered C#73 glass lens.
- DH Drop Holophane tempered lens.
- UV UV filter. Use with Options -13, -15, -17, -18, -21 only. Consult factory.

### Luminaire (Housing) Finishes

- 35 Natural aluminum acrylic enamel.
- 37 Dark Bronze acrylic enamel.
- 38 Black acrylic enamel.
- 94 Custom color/finish. Specify. Consult factory.

### Mounting

- 54 Safety cable from fixture through pendant stem and 12" beyond. Use with -PM.
- 80 2" collar for mounting beneath surface outlet box. 1/2" T.S. KO's. Must add Option -89 for wet label listing.
- 87 Custom pendant. Specify. Use with -PM.
- 88 Swivel canopy for sloped ceilings up to 40°. Use with Option -PM.
- 89 Sealed top WeatherCap. Must add to Options -80, -PM and -WB for wet label listing.
- PM Pendant mount. 8" stem or see Option -87. Must add Option -89 for wet label listing.
- WB Wall bracket mount. Must add Option -89 for wet label listing.

### Other

- 99 Special modification. Consult factory.
- FD Two additional in-line fuses. Use with -84. Not available with Option -98 (347V).
- FS Additional in-line fuse. Not available with Option -98 (347V).
- LE With 4-pin electronic lamp. 3500°K standard. 82 CRI and 12,000 hour life. Specify wattage, style and color temperature.

## SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

## APPROVAL STAMP

<sup>1</sup> Visit [www.kirlinlighting.com](http://www.kirlinlighting.com) for most current performance / specifications.

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 of 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, or repair, or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.