

**Complete Fixture Minus Suspension Kit:**

Spec ID	Powerhead	Inner Glass	Outer Glass	Suspension Kit	Lamp	Volts
FS02	PS13SA	SG01	GLS01	*See suspensions below	4-Pin Elect. Twin Tube 13W	120V
FS202	PS132SA	SG01	GLS01		4-Pin Elect. Twin Tube 13W	277V
FS02Q	PS13QSA	SG01	GLS01		4-Pin Quad Tube 13W	120V
FS202Q	PS132QSA	SG01	GLS01		4-Pin Quad Tube 13W	277V
IS02	PS50SA	SG01	GLS01		T-4 Mini-Can 50W	120V

Must Order Powerhead and Glass separately.

**Suspension**

Cat. No	Finish	Description
SK01	Satin Aluminum	Clear Metallic Straight Cord/Cable, 120" Length, (10') with canopy
SK02	Satin Aluminum	Clear Metallic Straight Cord/Cable, 300" Length, (25') with canopy
ST01	Satin Aluminum	36" Length 3/8" Stem with canopy
ST02	Satin Aluminum	60" Length 3/8" Stem with canopy
CTC	Satin Aluminum	Close To Ceiling Kit with canopy
TM01	Satin Aluminum	Silver Track Mounting Kit with Clear Metallic Straight Cord/Cable, 120" Length, (10') (120V only)

**Features**

- Power Compartment:** Die Cast and Machined Aluminum Components. Brushed and Clear Lacquer Finish.
- Primary Glass:** Triplex Hand Blown Glass.
- Decorative Glass Assembly:** A Straight Section of Clear Hand Blown Glass, with Polished Edges, Die Cast Aluminum Holder Ring and Stainless Steel Support Pins.

**Lamping (by others)**

**Incandescent:** 50W Max. T-4 Mini Candelabra

**Fluorescent:** 13W 4-Pin Electronic Twin Tube Specify Lightolier #56964 (\*\*see chart below)

**\*\*Compact Fluorescent:**

General Electric	Osram/Sylvania	Philips
(1) 13W Twin Tube 4-Pin Compact Fluorescent Lamp		
N/A	CF13DS/E/*	N/A
(1) 13W Quad Tube 4-Pin Compact Fluorescent Lamp		
F13DBX/SPX*/EX04P	CF13DD/E/*	PL-C13W*/ALTO

**\*Manufacturers Color Temperature Designation**

**Electrical**

**Lampholders**

**Incandescent:** E11 Base, Porcelain, Plated Copper Alloy Screw Shell

**Compact Fluorescent:** 13W Twin: 2GX7 Base, High Impact Thermoset Polymer with Brass Contacts.

**13W Quad:** GX24Q-1 Base, High Impact Thermoset Polymer with Brass Contacts.

Ballasts: Fluorescent: Electronic	13 Watts	
Voltage	120	277
Total Input Watts	18	14
Max. Line Current (Amps)	.17	.12

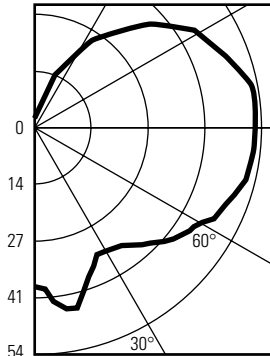
**Labels**

cULus Listed. Suitable for Damp Locations.

Job Information	Type:
<b>Job Name:</b>	
<b>Cat. No.:</b>	
<b>Lamp(s):</b>	
<b>Notes:</b>	

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Catalog No. FS02/FS01, 13W 4-Pin Twin Tube, 800 Lumens.



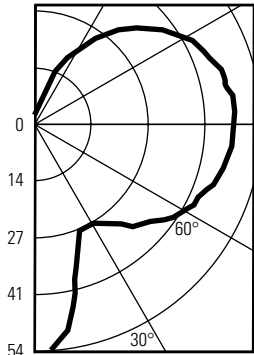
Report No. 3108FR

CANDLEPOWER SUMMARY				ZONAL LUMEN SUMMARY		ZONAL LUMENS AND PERCENTAGES			
Angle	Mean CP	Angle	Mean CP	Zone	Lumens	Zone	Lumens	%Lamp	%Fixt
0	39	90	54	0-10	4.1	0-30	32.14	4	5.8
5	42	95	54	10-20	11.89	0-40	54.24	6.8	9.8
10	45	100	54	20-30	16.15	0-60	125.68	15.7	22.8
15	43	105	53	30-40	22.11	0-90	289.44	36.2	52.4
20	38	110	51	40-50	31.03	90-120	163.26	20.4	29.6
25	34	115	49	50-60	40.41	90-130	202.8	25.4	36.7
30	34	120	47	60-70	49.15	90-150	249.85	31.2	36.7
35	35	125	44	70-80	55.68	90-180	262.55	32.8	47.6
40	37	130	41	80-90	58.92	0-180	551.99	69	100
45	40	135	37	90-100	58.92	** Efficiency = 69% **			
50	43	140	33	100-110	55.68				
55	45	145	29	110-120	48.66				
60	47	150	25	120-130	39.53				
65	50	155	20	130-140	28.74				
70	51	160	15	140-150	18.32				
75	53	165	10	150-160	9.51				
80	54	170	5	160-170	2.91				
85	54	175	2	170-180	.29				
90	54	180	1						

COEFFICIENTS OF UTILIZATION											
Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
Room Cavity Ratio	0	74	74	74	74	69	69	58	58	49	36
	1	64	60	56	52	55	48	46	40	37	23
	2	57	50	44	40	46	37	38	31	31	25
	3	51	43	37	32	39	29	33	24	26	20
	4	46	37	31	26	34	24	28	20	23	16
	5	42	33	26	22	30	20	25	17	20	14
	6	39	29	23	18	27	17	22	14	18	12
	7	36	26	20	16	24	15	20	12	16	10
	8	33	24	18	14	22	13	18	11	15	9
	9	31	22	16	12	20	11	17	9	14	8
	10	29	20	14	11	18	10	15	8	13	7

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 16.0

Catalog No. FS02Q/FS01Q, 13W 4-Pin Quad Tube, 900 Lumens.



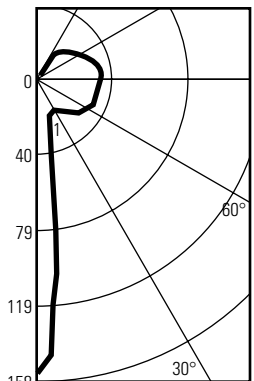
Report No. 3105FR

CANDLEPOWER SUMMARY				ZONAL LUMEN SUMMARY		ZONAL LUMENS AND PERCENTAGES			
Angle	Mean CP	Angle	Mean CP	Zone	Lumens	Zone	Lumens	%Lamp	%Fixt
0	54	90	49	0-10	4.96	0-30	28.52	3.2	5.8
5	54	95	49	10-20	10.5	0-40	47.41	5.3	9.6
10	48	100	48	20-30	13.06	0-60	110.28	12.3	22.4
15	43	105	47	30-40	18.89	0-90	256.23	28.5	52
20	37	110	46	40-50	27.06	90-120	147.51	16.4	29.9
25	28	115	45	50-60	35.81	90-130	183.11	20.3	37.1
30	28	120	42	60-70	43.7	90-150	225.8	25.1	37.1
35	30	125	40	70-80	49.73	90-180	236.85	26.3	48
40	32	130	37	80-90	52.51	0-180	493.07	54.8	100
45	35	135	34	90-100	53.33	** Efficiency = 54.8% **			
50	37	140	30	100-110	49.99				
55	40	145	26	110-120	44.19				
60	42	150	22	120-130	35.6				
65	44	155	18	130-140	26.11				
70	46	160	13	140-150	16.58				
75	47	165	8	150-160	8.29				
80	48	170	4	160-170	2.51				
85	48	175	2	170-180	.25				
90	49	180	1						

COEFFICIENTS OF UTILIZATION											
Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
Room Cavity Ratio	0	59	59	59	59	55	55	46	46	39	28
	1	51	47	44	41	43	38	36	32	30	26
	2	45	40	35	31	36	29	30	24	24	20
	3	41	34	29	25	31	23	26	19	21	16
	4	37	30	24	20	27	19	22	16	18	13
	5	34	26	21	17	24	16	20	13	16	11
	6	31	23	18	15	21	13	18	11	14	9
	7	28	21	16	13	19	12	16	10	13	8
	8	26	19	14	11	17	10	14	9	12	7
	9	25	17	13	10	16	9	13	8	11	6
	10	23	16	11	9	14	8	12	7	10	5

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 14.0

Catalog No. IS02/IS01, 50W T-4, 950 Lumens.



Report No. 3101FR

CANDLEPOWER SUMMARY				ZONAL LUMEN SUMMARY		ZONAL LUMENS AND PERCENTAGES			
Angle	Mean CP	Angle	Mean CP	Zone	Lumens	Zone	Lumens	%Lamp	%Fixt
0	158	90	33	0-10	8.06	0-30	23.21	2.4	6.8
5	104	95	34	10-20	6.98	0-40	36.04	3.8	10.5
10	43	100	33	20-30	8.18	0-60	79.48	8.4	23.1
15	23	105	33	30-40	12.83	0-90	180.42	19	52.5
20	18	110	32	40-50	18.63	90-120	101.76	10.7	29.6
25	17	115	31	50-60	24.81	90-130	126.02	13.3	36.7
30	19	120	29	60-70	30.42	90-150	155.48	16.4	36.7
35	20	125	27	70-80	34.52	90-180	163.04	17.2	47.5
40	22	130	25	80-90	36.01	0-180	343.46	36.2	100
45	24	135	23	90-100	36.82	** Efficiency = 36.2% **			
50	26	140	21	100-110	34.52				
55	28	145	18	110-120	30.42				
60	29	150	16	120-130	24.26				
65	31	155	13	130-140	17.85				
70	32	160	9	140-150	11.61				
75	33	165	5	150-160	5.93				
80	33	170	1	160-170	1.53				
85	33	175	1	170-180	.1				
90	33	180	1						

COEFFICIENTS OF UTILIZATION											
Ceiling	80%				70%		50%		30%		0
	70	50	30	10	50	10	50	10	50	10	
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%										
Room Cavity Ratio	0	39	39	39	39	36	36	31	31	26	19
	1	34	31	29	27	29	25	24	21	20	18
	2	30	26	23	21	24	19	20	16	16	13
	3	27	23	19	17	21	15	17	13	14	11
	4	25	20	16	14	18	13	15	11	12	9
	5	22	18	14	12	16	11	13	9	11	7
	6	21	16	12	10	14	9	12	8	10	6
	7	19	14	11	9	13	8	11	7	9	6
	8	18	13	10	8	12	7	10	6	8	5
	9	16	12	9	7	11	6	9	5	7	4
	10	15	11	8	6	10	6	8	5	7	4

Determined In Accordance With Current IES Published Procedures  
Luminaire Input Watts = 50

**Job Information** **Type:**

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