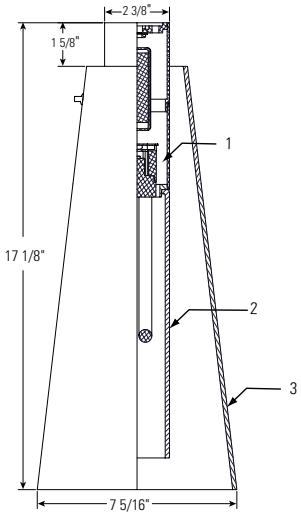
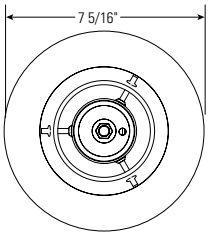
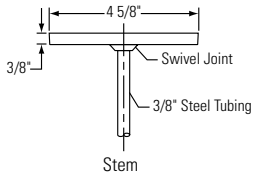
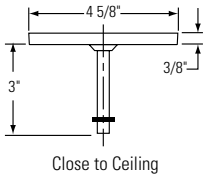


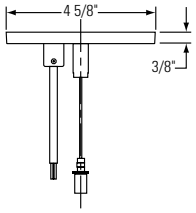




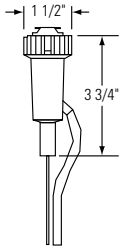
Stem



Close to Ceiling



Cable/Cord



Track Mount

Complete Fixture Minus Suspension Kit:

Spec ID	Powerhead	Inner Glass	Outer Glass	Suspension Kit	Lamp	Volts
FS03	**PS13SA**	**SG01**	**GLS02**	*See suspensions below	4-Pin elect. Twin Tube 13W	120V
FS203	**PS132SA**	**SG01**	**GLS02**		4-Pin elect. Twin Tube 13W	277V
FS03Q	**PS13QSA**	**SG01**	**GLS02**		4-Pin Quad Tube 13W	120V
FS203Q	**PS132QSA**	**SG01**	**GLS02**		4-Pin Quad Tube 13W	277V
IS03	**PS50SA**	**SG01**	**GLS02**		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

1. **Power Compartment:** Die Cast and Machined Aluminum Components. Brushed and Clear Lacquer Finish.
2. **Primary Glass:** Triplex Hand Blown Glass.
3. **Decorative Glass Casing:** A Conical Section of Frosted Hand Blown Glass, Die Cast Aluminum Holder Ring and Stainless Steel Support Pins.

Lamping (by others)

Incandescent: 50W Max. T-4 Mini Can

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/*/EC04P	CF13DD/E/*	PL-C13W/*/4P/ALTO

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: G24Q-1 Base, High Impact Thermoset Polymer with Brass Contacts.

Ballasts: Fluorescent: Electronic

	13 Watts	
Voltage	120	277
Max. Watts	35	28
Max. Line Current (Amps)	.33	.18

Labels

cULus Listed. Suitable for Damp Locations.

Job Information **Type:**

Job Name:

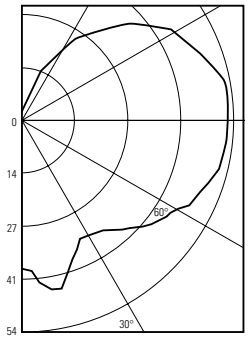
Cat. No.:

Lamp(s):

Notes:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

Catalog No. FS03/FS01, 4-Pin Twin Tube, 800 Lumens.



Report No. 3108FR

CANDLEPOWER SUMMARY

Angle	Mean CP	Angle	Mean CP
0	39	90	54
5	42	95	54
10	45	100	54
15	43	105	53
20	38	110	51
25	34	115	49
30	34	120	47
35	35	125	44
40	37	130	41
45	40	135	37
50	43	140	33
55	45	145	29
60	47	150	25
65	50	155	20
70	51	160	15
75	53	165	10
80	54	170	5
85	54	175	2
90	54	180	1

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.1
10-20	11.89
20-30	16.15
30-40	22.11
40-50	31.03
50-60	40.41
60-70	49.15
70-80	55.68
80-90	58.92
90-100	58.92
100-110	55.68
110-120	48.66
120-130	39.53
130-140	28.74
140-150	18.32
150-160	9.51
160-170	2.91
170-180	.29

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	%Lamp	%Fixt
0-30	32.14	4	5.8
0-40	54.24	6.8	9.8
0-60	125.68	15.7	22.8
0-90	289.44	36.2	52.4
90-120	163.26	20.4	29.6
90-130	202.8	25.4	36.7
90-150	249.85	31.2	36.7
90-180	262.55	32.8	47.6
0-180	551.99	69	100

** Efficiency = 69% **

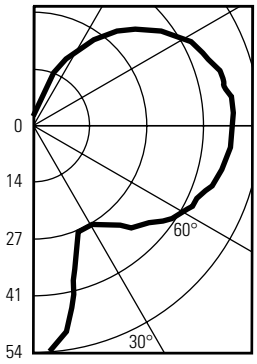
COEFFICIENTS OF UTILIZATION

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

Room Cavity Ratio

Determined In Accordance With Current IES Published Procedures
Luminaire Input Watts = 16

Catalog No. FS03Q/FS01Q, 13W 4-Pin Quad Tube, 900 Lumens.



Report No. 3105FR

CANDLEPOWER SUMMARY

Angle	Mean CP	Angle	Mean CP
0	54	90	49
5	54	95	49
10	48	100	48
15	43	105	47
20	37	110	46
25	28	115	45
30	28	120	42
35	30	125	40
40	32	130	37
45	35	135	34
50	37	140	30
55	40	145	26
60	42	150	22
65	44	155	18
70	46	160	13
75	47	165	8
80	48	170	4
85	48	175	2
90	49	180	1

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.96
10-20	10.5
20-30	13.06
30-40	18.89
40-50	27.06
50-60	35.81
60-70	43.7
70-80	49.73
80-90	52.51
90-100	53.33
100-110	49.99
110-120	44.19
120-130	35.6
130-140	26.11
140-150	16.58
150-160	8.29
160-170	2.51
170-180	.25

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	%Lamp	%Fixt
0-30	28.52	3.2	5.8
0-40	47.41	5.3	9.6
0-60	110.28	12.3	22.4
0-90	256.23	28.5	52
90-120	147.51	16.4	29.9
90-130	183.11	20.3	37.1
90-150	225.8	25.1	37.1
90-180	236.85	26.3	48
0-180	493.07	54.8	100

** Efficiency = 54.8% **

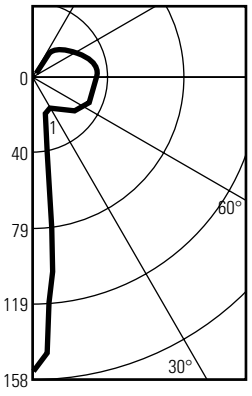
COEFFICIENTS OF UTILIZATION

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

Room Cavity Ratio

Determined In Accordance With Current IES Published Procedures
Luminaire Input Watts = 14

Catalog No. IS03/IS01, 50W T-4, 950 Lumens.



Report No. 3101FR

CANDLEPOWER SUMMARY

Angle	Mean CP	Angle	Mean CP
0	158	90	33
5	104	95	34
10	43	100	33
15	23	105	33
20	18	110	32
25	17	115	31
30	19	120	29
35	20	125	27
40	22	130	25
45	24	135	23
50	26	140	21
55	28	145	18
60	29	150	16
65	31	155	13
70	32	160	9
75	33	165	5
80	33	170	1
85	33	175	1
90	33	180	1

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	8.06
10-20	6.98
20-30	8.18
30-40	12.83
40-50	18.63
50-60	24.81
60-70	30.42
70-80	34.52
80-90	36.01
90-100	36.82
100-110	34.52
110-120	30.42
120-130	24.26
130-140	17.85
140-150	11.61
150-160	5.93
160-170	1.53
170-180	.1

ZONAL LUMENS AND PERCENTAGES

Zone	Lumens	%Lamp	%Fixt
0-30	23.21	2.4	6.8
0-40	36.04	3.8	10.5
0-60	79.48	8.4	23.1
0-90	180.42	19	52.5
90-120	101.76	10.7	29.6
90-130	126.02	13.3	36.7
90-150	155.48	16.4	36.7
90-180	163.04	17.2	47.5
0-180	343.46	36.2	100

** Efficiency = 36.2% **

COEFFICIENTS OF UTILIZATION

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

Room Cavity Ratio

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

Job Informationv **Type:**

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710