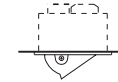


Styles:

F121/F122
F125

F111
F112

F206

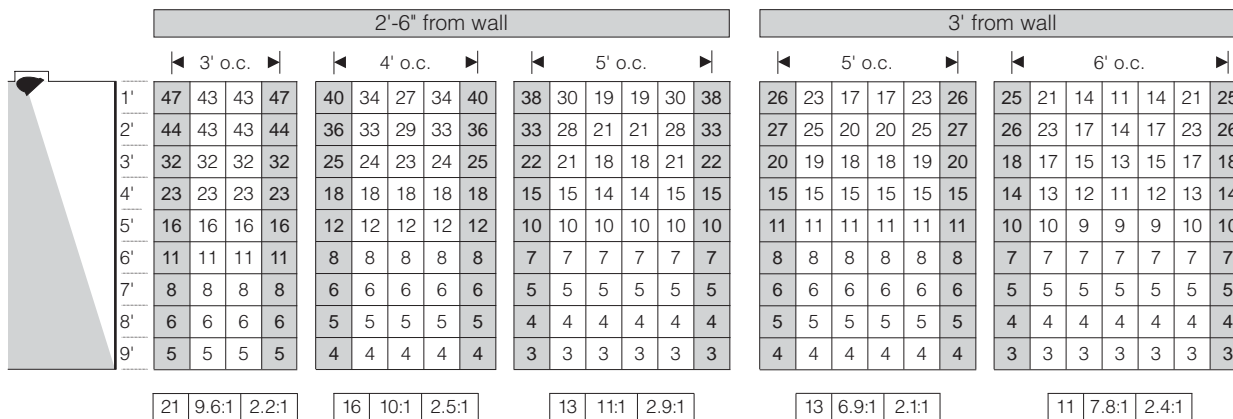


Lamp

26W quad tube compact fluorescent rated 1800 lumens

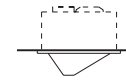
Reflector

Small cross-section with baffle, nominal 11" long
Reflector aiming is adjustable



Styles:

F205



Lamp

26W quad tube compact fluorescent rated 1800 lumens

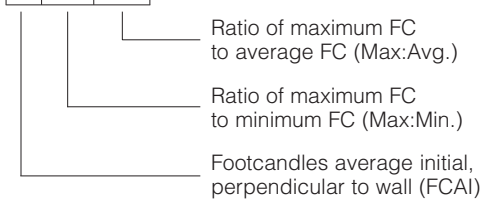
Reflector

Small cross-section, nominal 11" long
Reflector aiming is non-adjustable



Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1



Indoor Footcandle Charts Hex Tube Compact Fluorescent

Styles:

F113/F114 F204
F126



Lamp (1) 42W hex tube compact fluorescent rated 3200 lumens

Reflector Large cross-section, nominal 12" long
Reflector aiming is adjustable

Multipliers for Other Lamps:
(1) 32W (CFTR32W/GX24q, 2400 lumens)

0.75

	2'-6" from wall										3' from wall													
	4' o.c.					5' o.c.					5' o.c.					6' o.c.								
1'	81	64	48	64	81	77	57	33	33	58	77	58	48	34	34	48	58	55	45	28	21	28	45	55
2'	70	61	52	61	70	64	54	37	37	54	64	54	48	38	38	48	54	51	44	32	26	32	44	51
3'	54	52	49	52	54	48	44	37	37	44	48	45	42	38	38	42	45	41	38	31	27	31	38	41
4'	42	41	41	42	42	35	34	32	32	34	35	36	35	34	34	35	36	32	31	28	26	28	31	32
5'	32	32	32	32	32	26	26	26	26	26	26	28	28	28	28	28	28	25	24	23	23	23	24	25
6'	24	24	24	24	24	20	20	20	20	20	20	22	22	22	22	22	22	19	19	19	18	19	19	19
7'	19	19	19	19	19	15	15	15	15	15	15	17	17	18	18	17	17	15	15	15	15	15	15	15
8'	15	15	15	15	15	12	12	13	13	12	12	14	14	14	14	14	14	12	12	12	12	12	12	12
9'	13	13	13	13	13	11	11	11	11	11	11	12	12	12	12	12	12	10	10	10	10	10	10	10

36 6.3:1 2.2:1 30 7.2:1 2.6:1 29 4.8:1 2.0:1 25 5.4:1 2.2:1

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAl)



	3' from wall										4' from wall																	
	4' o.c.					6' o.c.					6' o.c.					8' o.c.												
1'	57	50	42	50	57	50	41	25	19	25	41	50	32	29	23	21	23	29	32	29	26	19	13	11	13	19	26	29
2'	56	52	47	52	56	47	40	29	23	29	41	47	33	31	26	24	26	31	33	30	27	21	16	14	16	21	27	30
3'	47	46	45	46	47	37	34	28	24	28	34	37	30	29	26	25	26	29	30	27	25	21	17	15	17	21	25	27
4'	39	39	39	39	39	29	28	25	23	25	28	29	27	26	25	24	25	26	27	23	22	19	17	15	17	19	22	23
5'	31	32	32	32	31	22	22	21	21	21	22	22	23	23	22	22	22	23	23	19	18	17	16	15	16	17	18	19
6'	25	26	26	26	25	18	18	18	17	18	18	18	20	20	20	20	20	20	20	16	15	15	14	14	14	15	15	16
7'	20	20	20	20	20	14	14	14	14	14	14	14	16	16	17	17	17	16	16	13	13	12	12	12	12	12	13	13
8'	16	16	16	16	16	11	11	11	11	11	11	11	14	14	14	14	14	14	14	11	10	10	10	10	10	10	10	11
9'	13	13	13	13	13	9	9	9	9	9	9	9	11	11	11	12	11	11	11	9	9	9	9	9	9	9	9	9
10'	11	11	11	11	11	8	8	8	8	8	8	8	10	10	10	10	10	10	10	7	7	7	7	7	7	7	7	7
11'	9	9	9	9	9	7	7	7	7	7	7	7	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6
12'	8	8	8	8	8	6	6	6	6	6	6	6	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6

27 6.7:1 2.1:1 19 8.0:1 2.7:1 18 4.4:1 1.8:1 14 5.2:1 2.2:1

Styles:

F113/F114 F204
F126



Lamp (2) 42W hex tube compact fluorescent rated 3200 lumens

Reflector Large cross-section, nominal 17" long
Reflector aiming is adjustable

Multipliers for Other Lamps:
(2) 32W (CFTR32W/GX24q), 2400 lumens)

0.75

	4' from wall										5' from wall														
	6' o.c.					8' o.c.					6' o.c.					8' o.c.					10' o.c.				
2'	53	43	43	43	53	48	34	23	35	48	41	38	38	41	35	29	23	29	35	33	26	16	16	26	33
4'	47	44	44	44	47	40	34	28	34	40	42	41	41	42	34	31	28	31	34	31	27	20	20	27	31
6'	33	33	33	33	33	26	25	24	25	26	34	34	34	34	26	26	25	26	26	23	21	19	19	21	23
8'	24	24	24	24	24	18	18	18	18	18	26	26	26	26	20	20	20	20	20	16	16	16	16	16	16
10'	17	18	18	17	17	13	13	13	13	13	20	20	20	20	15	15	15	15	15	12	12	12	12	12	12
12'	13	13	13	13	13	10	10	10	10	10	15	15	15	15	12	12	12	12	12	10	10	10	10	10	10
14'	10	10	10	10	10	8	8	8	8	8	12	12	12	12	9	9	9	9	9	8	8	8	8	8	8
16'	8	9	9	8	8	7	7	7	7	7	10	10	10	10	8	8	8	8	8	7	7	7	7	7	7
18'	8	8	8	8	8	6	6	6	6	6	9	9	9	9	7	7	7	7	7	6	6	6	6	6	6

23 6.9:1 2.3:1 18 7.8:1 2.7:1 23 4.8:1 1.7:1 18 4.9:1 2.0:1 14 5.5:1 2.3:1

	2'-6" from wall										3' from wall																																																																					
	4' o.c.					5' o.c.					5' o.c.					6' o.c.																																																																
	9'	8'	7'	6'	5'	4'	3'	2'	1'	9'	8'	7'	6'	5'	4'	3'	2'	1'	9'	8'	7'	6'	5'	4'	3'	2'	1'	9'	8'	7'	6'	5'	4'	3'	2'	1'																																												
	66	54	41	54	66	63	47	26	28	49	63	46	39	27	28	39	46	44	36	22	17	24	37	44	48	42	28	23	30	41	48	41	39	30	26	30	37	41	32	32	28	25	27	30	32	25	25	24	22	23	24	25	19	20	20	19	19	19	19	16	16	16	16	15	15	16	13	13	13	13	13	13	13	11	11	11	11	11	11	11
	38 5.1:1 2.6:1					30 6.0:1 2.7:1					29 3.8:1 2.1:1					24 4.4:1 2.2:1																																																																

	3' from wall										4' from wall																																																																																																																				
	4' o.c.					6' o.c.					6' o.c.					8' o.c.																																																																																																															
	12'	11'	10'	9'	8'	7'	6'	5'	4'	3'	2'	1'	12'	11'	10'	9'	8'	7'	6'	5'	4'	3'	2'	1'	12'	11'	10'	9'	8'	7'	6'	5'	4'	3'	2'	1'	12'	11'	10'	9'	8'	7'	6'	5'	4'	3'	2'	1'																																																																															
	51	46	40	45	51	44	36	22	17	24	36	44	26	24	20	17	20	24	26	24	22	16	11	9	12	17	22	24	28	25	20	14	12	15	20	26	28	27	25	21	16	14	16	21	25	27	23	22	20	16	15	16	19	21	23	19	19	18	15	15	15	16	18	19	16	16	15	14	14	14	14	15	16	13	13	13	13	12	12	12	13	13	11	11	11	11	11	10	10	10	11	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	7	6	6	7	7	7	6	6	6	6
	29 5.7:1 2.9:1					20 7.3:1 3.0:1					18 3.6:1 2.1:1					14 4.5:1 2.2:1																																																																																																															

Styles:

F211



Lamp

(1) 42W hex tube compact fluorescent rated 3200 lumens

Reflector

Large cross-section, nominal 11" long Reflector aiming is adjustable to 15°, 20°, 25° above nadir

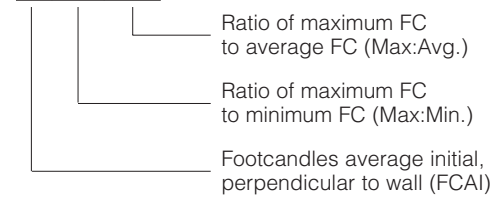
Multipliers for Other Lamps:

(1) 32W (CFTR32W/GX24q, 2400 lumens)

0.75

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1



Indoor Footcandle Charts Long Twin Tube Fluorescent

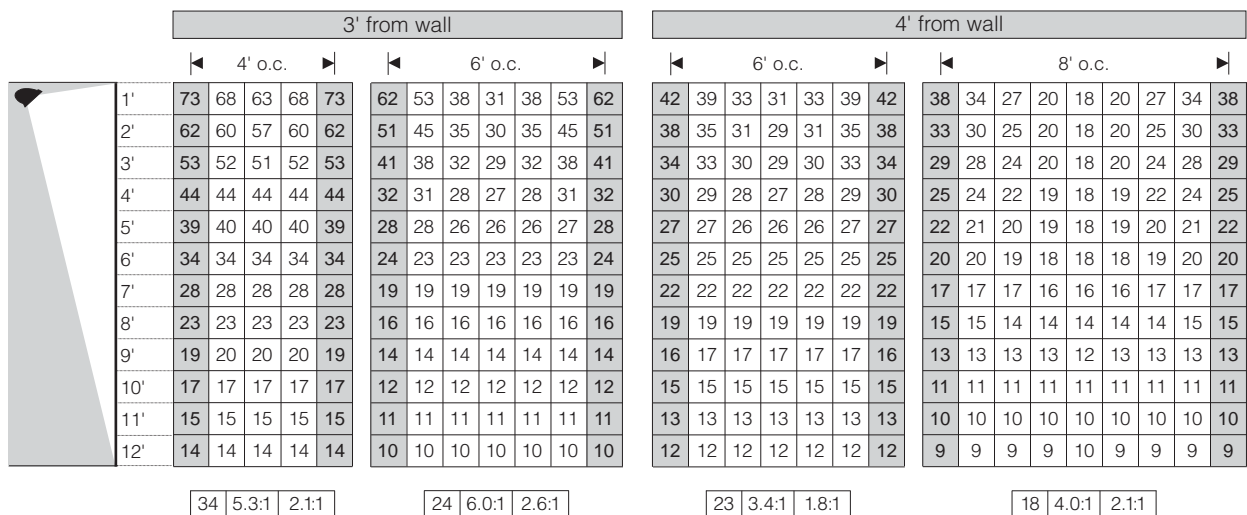
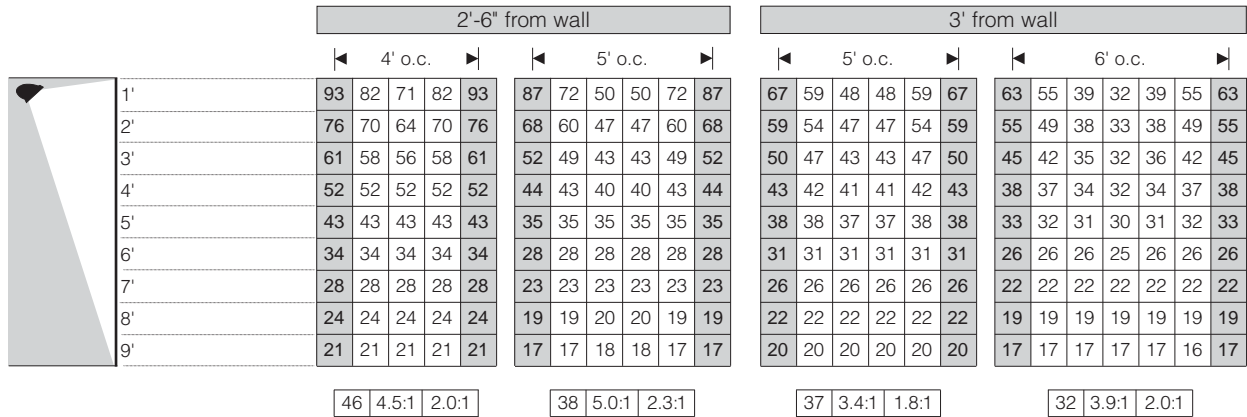
Styles:

F113/F114 F119 F204
F126



Lamp 50W long twin tube compact fluorescent rated 4000 lumens
Reflector Large single lamp cross-section, nominal 24" long Reflector aiming is adjustable

Multipliers for Other Lamps:
 36/39W (2900 lumens) 0.73
 40W (3150 lumens) 0.79
 55W (4500 lumens) 1.13



Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 | 5.0:1 | 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)
 Ratio of maximum FC to minimum FC (Max:Min.)
 Footcandles average initial, perpendicular to wall (FCAI)

	2'-6" from wall										3' from wall													
	4' o.c.					5' o.c.					5' o.c.					6' o.c.								
1'	91	81	70	81	91	83	70	50	50	70	83	66	59	48	48	59	66	62	54	39	32	39	54	62
2'	76	70	65	70	76	67	59	48	48	59	67	56	52	45	45	52	56	51	46	37	32	37	46	51
3'	61	60	58	60	61	52	50	45	45	49	52	47	45	41	41	45	47	42	39	34	31	34	39	42
4'	53	53	53	53	53	45	43	41	41	43	45	41	40	39	39	40	41	36	35	32	31	32	35	36
5'	42	42	42	42	42	35	34	34	34	34	35	35	35	35	35	35	35	30	30	29	28	29	30	30
6'	33	33	34	33	33	28	27	27	27	27	28	29	29	29	29	29	29	25	25	24	24	24	25	25
7'	27	27	27	27	27	22	22	23	23	22	22	24	24	25	25	24	24	21	21	21	20	21	21	21
8'	23	23	23	23	23	19	19	19	19	19	19	21	21	21	21	21	21	18	18	18	18	18	18	18
9'	20	20	20	20	20	17	17	17	17	17	17	19	19	19	19	19	19	16	16	16	16	16	16	16
	46 4.6:1 2.0:1					37 5.0:1 2.2:1					36 3.5:1 1.9:1					30 3.9:1 2.1:1								

Style:

F209



Lamp 50W long twin tube compact fluorescent rated 4000 lumens

Reflector Large single lamp cross-section, nominal 24" long Reflector is adjustable to four preset aiming angles

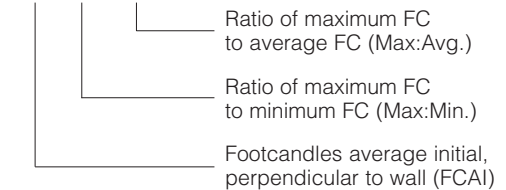
Multipliers for Other Lamps:
40W (3150 lumens)

0.79

	3' from wall										4' from wall																	
	4' o.c.					6' o.c.					6' o.c.					8' o.c.												
1'	74	69	64	69	74	62	54	38	32	38	54	62	41	38	33	30	33	38	41	36	33	26	20	18	20	26	33	36
2'	64	61	59	61	64	51	46	36	32	36	46	51	36	34	31	29	31	34	36	32	29	24	20	18	20	24	29	32
3'	54	53	52	53	54	41	39	33	31	33	39	41	33	32	29	28	29	32	33	28	26	23	19	18	19	23	26	28
4'	48	48	48	48	48	35	34	31	30	31	34	35	29	28	27	26	27	28	29	24	23	21	18	17	19	21	23	24
5'	42	42	42	42	42	30	29	28	28	28	29	30	26	25	25	25	25	26	21	20	19	18	17	18	19	20	21	
6'	34	34	34	34	34	24	24	23	23	23	24	24	24	24	24	24	24	24	19	19	18	17	17	17	18	19	19	
7'	28	28	28	28	28	20	20	19	19	19	20	20	21	21	21	21	21	21	16	16	16	15	15	15	16	16	16	
8'	23	23	23	23	23	16	16	16	16	16	16	16	18	18	18	18	18	18	14	14	14	14	14	14	14	14	14	
9'	20	20	20	20	20	14	14	14	14	14	14	14	16	16	16	16	16	16	12	12	12	12	12	12	12	12	12	
10'	17	17	17	17	17	12	12	12	12	12	12	12	14	14	14	14	14	14	11	11	11	11	11	11	11	11	11	
11'	15	15	15	15	15	11	11	11	11	11	11	11	13	13	13	13	13	13	10	10	10	10	10	10	10	10	10	
12'	13	13	13	13	13	10	10	10	10	10	10	10	12	12	12	12	12	12	9	9	9	9	9	9	9	9	9	
	35 5.6:1 2.1:1					25 6.3:1 2.5:1					22 3.4:1 1.8:1					17 4.0:1 2.1:1												

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1



Indoor Footcandle Charts 4X[®] Fluorescent

Styles:

F113/F114 F119 F204
F126



Lamp (2) 50W long twin tube compact fluorescent
each rated 4000 lumens

Reflector Large double lamp cross-section, nom. 24" long
Reflector aiming is adjustable

Multipliers for Other Lamps:

2 x 36/39W (2 @ 2900 lumens) 0.73
2 x 40W (2 @ 3150 lumens) 0.79
2 x 55W (2 @ 4500 lumens) 1.13

Height	2'-6" from wall										3' from wall													
	4' o.c.					5' o.c.					5' o.c.					6' o.c.								
	1'	193	170	146	170	193	179	149	104	104	149	179	139	124	100	100	124	139	131	113	82	67	82	113
2'	145	134	122	134	145	130	114	91	91	114	130	115	106	91	91	106	115	107	95	75	65	75	95	107
3'	104	100	97	100	104	89	84	75	75	84	89	87	83	76	76	83	87	78	73	63	58	63	73	78
4'	83	83	82	83	83	70	68	64	65	68	70	71	70	67	67	70	71	63	60	55	53	55	60	63
5'	66	66	66	66	66	55	54	54	54	54	55	58	58	58	58	58	58	51	50	48	47	48	50	51
6'	52	52	53	52	52	43	43	43	43	43	43	48	48	48	48	48	48	41	41	40	39	40	41	41
7'	42	42	42	42	42	34	35	35	35	35	34	39	39	40	40	39	39	33	33	33	33	33	33	33
8'	35	35	35	35	35	29	29	29	29	29	29	33	33	33	33	33	33	28	28	28	28	28	28	28
9'	30	30	30	30	30	25	25	26	26	25	25	29	29	29	29	29	29	24	24	24	25	24	24	24

80 6.4:1 2.4:1 66 7.0:1 2.7:1 65 4.9:1 2.1:1 55 5.4:1 2.4:1

Height	3' from wall										4' from wall																	
	4' o.c.					6' o.c.					6' o.c.					8' o.c.												
	1'	145	135	125	135	145	122	105	76	62	76	105	122	81	75	65	60	65	75	81	73	66	52	40	35	40	52	66
2'	127	121	116	121	127	102	92	71	62	71	92	102	77	73	65	61	65	72	77	67	62	51	41	37	41	51	62	67
3'	98	95	92	95	98	75	69	59	54	59	69	75	64	62	57	54	57	62	64	55	52	44	37	35	37	44	52	55
4'	75	75	75	75	75	55	53	49	47	49	53	55	52	51	49	48	49	51	52	43	41	38	34	32	34	38	41	43
5'	62	63	63	63	62	45	44	42	41	42	44	45	45	45	44	43	44	45	45	37	36	33	31	30	31	33	36	37
6'	52	52	52	52	52	37	36	36	36	36	36	37	40	39	39	39	39	40	31	31	30	28	28	28	30	31	31	
7'	42	43	43	43	42	30	30	30	30	30	30	30	34	34	34	34	34	34	26	26	26	25	25	25	26	26	26	
8'	35	35	35	35	35	25	25	25	25	25	25	25	29	29	30	30	30	29	29	23	23	22	22	22	22	22	23	23
9'	29	29	29	29	29	21	21	21	21	21	21	21	25	25	25	26	25	25	25	19	19	19	19	19	19	19	19	19
10'	25	25	25	25	25	18	18	18	18	18	18	18	22	22	22	22	22	22	22	17	17	17	17	17	17	17	17	17
11'	22	22	22	22	22	16	16	16	16	16	16	16	19	20	20	20	20	19	19	15	15	15	15	15	15	15	15	15
12'	20	20	20	20	20	15	15	15	15	15	15	15	18	18	18	18	18	18	18	14	14	14	14	14	14	14	14	14

60 7.4:1 2.4:1 42 8.2:1 2.9:1 40 4.5:1 2.0:1 31 5.3:1 2.4:1

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAl)

Height	4' from wall										5' from wall															
	6' o.c.					8' o.c.					6' o.c.					8' o.c.					10' o.c.					
	2'	72	61	61	72	72	64	48	35	48	64	59	55	55	59	59	49	42	35	42	49	46	37	25	25	37
4'	49	45	45	49	49	41	35	29	35	41	45	44	44	45	45	37	33	30	33	37	33	28	22	22	29	33
6'	33	33	33	33	33	26	25	24	25	26	33	33	33	33	33	26	25	24	25	26	22	21	19	19	21	22
8'	25	25	25	25	25	20	19	19	19	20	27	27	27	27	27	21	20	20	20	21	17	17	16	16	17	17
10'	19	19	19	19	19	14	14	14	14	14	21	21	21	21	21	16	16	16	16	16	13	13	13	13	13	13
12'	14	14	14	14	14	11	11	11	11	11	16	17	17	16	16	13	13	13	13	13	11	11	11	11	11	11
14'	11	11	11	11	11	9	9	9	9	9	13	13	13	13	13	10	10	10	10	10	8	9	9	9	9	8
16'	9	9	9	9	9	7	7	7	7	7	11	11	11	11	11	9	9	9	9	9	7	7	7	7	7	7
18'	8	8	8	8	8	7	7	7	7	7	10	10	10	10	10	8	8	8	8	8	7	7	7	7	7	7

26 8.6:1 2.8:1 20 9.4:1 3.2:1 26 6.1:1 2.3:1 20 6.3:1 2.5:1 16 6.9:1 2.8:1

		2'-6" from wall						3' from wall																	
		4' o.c.			5' o.c.			5' o.c.			6' o.c.														
1'		214	186	156	185	214	199	163	110	110	163	199	157	137	107	107	137	157	149	126	87	70	87	126	149
2'		156	142	128	142	156	140	122	94	95	121	140	123	111	94	94	111	123	114	100	77	66	77	100	114
3'		116	111	107	111	116	101	93	81	81	93	101	90	85	77	77	85	90	81	75	63	58	63	75	81
4'		93	91	90	91	93	78	75	71	71	75	78	75	73	70	70	73	75	66	63	57	54	57	63	66
5'		73	73	72	73	73	60	60	58	58	60	60	61	61	60	60	61	61	53	52	49	48	49	52	53
6'		58	58	57	58	58	47	47	47	47	47	47	51	51	50	50	51	51	43	43	42	42	42	43	43
7'		46	46	46	46	46	38	38	38	38	38	38	42	42	42	42	42	42	36	36	35	35	35	36	36
8'		38	38	37	38	38	32	31	31	31	31	32	36	36	35	35	36	36	30	30	30	30	30	30	30
9'		33	32	32	32	33	28	27	27	27	27	28	32	31	31	31	31	32	27	27	26	26	26	27	27
		87 6.7:1 2.5:1			72 7.4:1 2.8:1			69 5.1:1 2.3:1			58 5.7:1 2.6:1														

Style:

F209



Lamp

(2) 55W long twin tube compact fluorescent each rated 4500 lumens

Reflector

Large double lamp cross-section, nom. 24" long Reflector is adjustable to four preset aiming angles

Multipliers for Other Lamps:

2 x 36/39W (2 @ 2900 lumens)

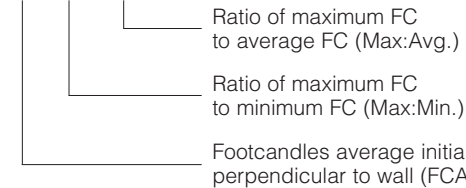
0.64

		3' from wall				4' from wall																							
		4' o.c.		6' o.c.		6' o.c.				8' o.c.																			
1'		173	159	144	159	173	148	126	86	69	86	125	148	88	81	69	63	69	81	88	80	72	55	41	36	41	55	72	80
2'		139	131	123	131	139	113	99	76	65	76	99	113	85	79	69	65	69	79	85	76	69	55	43	39	43	55	69	76
3'		104	101	98	101	104	80	74	62	56	62	74	80	68	65	59	56	59	65	68	59	55	46	38	36	38	46	55	59
4'		88	87	86	87	88	65	62	56	53	56	62	65	55	53	50	49	50	53	55	46	44	39	34	32	34	39	44	46
5'		72	72	72	72	72	52	50	48	47	48	50	52	48	47	46	45	46	47	48	39	38	35	32	31	32	35	38	39
6'		59	59	59	59	59	42	41	40	40	40	41	42	42	42	41	41	41	42	42	33	32	31	29	29	29	31	32	33
7'		48	48	48	48	48	34	34	33	33	33	34	34	36	36	36	36	36	36	36	28	28	27	26	26	26	27	28	28
8'		39	39	39	39	39	28	28	28	28	28	28	28	31	31	31	31	31	31	31	24	24	24	23	23	23	24	24	24
9'		32	32	32	32	32	23	23	23	23	23	23	23	27	27	27	27	27	27	27	21	21	21	21	21	21	21	21	21
10'		27	27	27	27	27	20	20	20	19	20	20	20	24	24	24	24	24	24	24	18	18	18	18	18	18	18	18	18
11'		23	23	23	23	23	18	17	17	17	17	18	22	22	21	21	21	22	22	17	17	16	16	16	16	17	17	17	
12'		21	21	21	21	21	16	16	16	15	16	16	16	20	20	20	19	20	20	15	15	15	15	15	15	15	15	15	
		67 8.4:1 2.6:1		47 9.6:1 3.2:1		43 4.6:1 2.0:1				33 5.4:1 2.5:1																			

		4' from wall				5' from wall																			
		6' o.c.		8' o.c.		6' o.c.				8' o.c.				10' o.c.											
2'		84	68	68	84	75	54	38	54	75	65	59	59	65	55	46	37	46	55	51	40	26	26	40	51
4'		54	49	49	54	45	38	31	38	45	49	46	46	49	40	35	31	35	40	36	30	23	23	30	36
6'		41	40	40	41	32	30	28	30	32	37	37	37	37	29	28	27	28	29	26	23	20	20	23	26
8'		30	30	30	30	23	23	22	23	23	30	30	30	30	23	23	23	23	23	20	19	18	18	19	20
10'		22	22	22	22	17	17	17	17	17	24	24	24	24	18	18	18	18	18	15	15	15	15	15	15
12'		16	16	16	16	13	12	12	12	13	19	19	19	19	14	14	14	14	14	12	12	12	12	12	12
14'		12	12	12	12	10	10	10	10	10	15	15	15	15	12	12	11	12	12	10	10	9	9	10	10
16'		10	10	10	10	8	8	8	8	8	12	12	12	12	10	10	9	10	10	8	8	8	8	8	8
18'		9	9	9	9	7	7	7	7	7	11	11	11	11	9	9	8	9	9	7	7	7	7	7	7
		30 9.6:1 2.8:1		23 11:1 3.3:1		28 6.2:1 2.3:1				22 6.6:1 2.5:1				18 7.3:1 2.8:1											

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1



Indoor Footcandle Charts T5 Fluorescent

Styles:

F101/F102
F115



F210



F105/F106
F109



Lamp 28W T5 fluorescent
rated 2900 lumens

Reflector Small cross-section, nominal 48" long
Reflector aiming is adjustable

	12" from wall					18" from wall					24" from wall					30" from wall					36" from wall				
1'	121	126	127	126	122	100	102	103	102	100	78	79	79	79	78	69	69	70	69	69	61	61	61	61	61
2'	76	77	77	77	76	73	74	74	74	73	68	68	69	68	68	62	62	62	62	62	57	57	57	57	57
3'	45	45	45	45	45	55	55	55	55	55	57	57	57	57	57	54	55	55	55	54	52	52	52	52	52
4'	27	27	27	27	27	36	37	37	37	37	43	43	43	43	43	46	46	46	46	46	48	48	48	48	48
5'	18	18	18	18	18	26	26	26	26	26	31	31	31	31	31	35	36	36	36	35	38	38	38	38	38
6'	13	13	13	13	13	19	19	19	19	19	23	23	23	23	23	27	27	27	27	27	30	30	30	30	30
7'	11	11	11	11	11	15	15	15	15	15	18	18	18	18	18	21	22	22	22	21	24	25	25	25	24
8'	9	9	9	9	9	12	12	12	12	12	15	15	15	15	15	18	18	18	18	18	20	20	20	20	20
9'	8	8	8	8	8	11	11	11	11	11	13	13	13	13	13	15	15	15	15	15	17	17	17	17	17
	37 16:1 3.5:1					39 9.8:1 2.7:1					39 6.1:1 2.1:1					39 4.6:1 1.8:1					39 3.6:1 1.6:1				

Styles:

F110



Lamp 28W T5 fluorescent
rated 2900 lumens

Reflector Small cross-section, nominal 48" long
Reflector aiming is non-adjustable



	18" from wall					24" from wall					30" from wall					36" from wall				
1'	107	109	110	109	108	84	84	85	84	84	69	69	70	69	69	58	58	58	58	58
2'	87	88	88	88	87	72	73	73	73	72	62	62	62	62	62	54	54	54	54	54
3'	60	60	60	60	60	62	62	62	62	62	55	55	55	55	55	48	49	49	49	48
4'	39	39	39	39	39	45	45	45	45	45	46	46	47	47	46	44	44	44	44	44
5'	27	27	27	27	27	32	32	32	32	32	36	36	36	36	36	37	37	37	37	37
6'	19	19	19	19	19	24	24	24	24	24	27	27	27	27	27	29	30	30	30	29
7'	14	14	14	14	14	18	19	19	19	18	21	22	22	22	22	24	24	24	24	24
8'	11	11	11	11	11	15	15	15	15	15	18	18	18	18	18	20	20	20	20	20
9'	9	9	9	9	9	12	12	12	12	12	15	15	15	15	15	17	17	17	17	17
	42 12:1 2.6:1					41 6.9:1 2.1:1					39 4.6:1 1.8:1					37 3.4:1 1.6:1				

Style:

F305

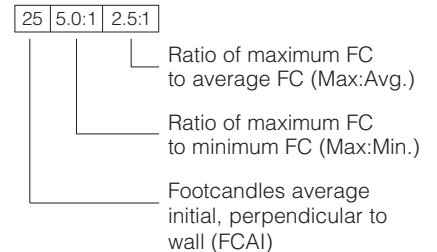


Lamp 28W T5 fluorescent
rated 2900 lumens

Reflector Xtra small cross-section, nominal 48" long
Reflector aiming is adjustable

	12" from wall					18" from wall					24" from wall				
1'	83	82	80	82	83	83	82	81	82	83	77	76	76	76	77
2'	45	45	45	45	45	51	51	51	51	51	54	53	53	53	54
3'	29	29	29	29	29	36	36	36	36	36	39	40	39	40	39
4'	20	20	19	20	20	27	27	27	27	27	31	31	30	31	31
5'	15	15	15	15	15	20	20	20	20	20	24	24	24	24	24
6'	12	12	12	12	12	15	15	15	15	15	19	19	19	19	19
7'	10	10	10	10	10	13	13	13	13	13	16	16	16	16	16
8'	9	9	9	9	9	11	11	11	11	11	14	14	14	14	14
9'	9	9	9	9	9	11	11	11	11	11	13	13	13	13	13
	26 9.2:1 2.9:1					30 7.5:1 2.8:1					32 5.9:1 2.4:1				

Charts illustrate the center section of a wall lighted by a continuous row of 5 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20



	18" from wall						24" from wall						30" from wall						36" from wall					
1'	92	92	92	92	92	92	71	71	71	71	71	71	57	58	58	58	58	57	49	49	49	49	49	49
2'	73	73	73	73	73	73	63	63	63	63	63	63	54	55	55	55	55	54	48	48	48	48	48	48
3'	56	56	56	56	56	56	50	50	50	50	50	50	44	44	44	44	44	44	41	41	41	41	41	41
4'	37	37	37	37	37	37	41	41	41	41	41	41	38	38	38	38	38	38	35	35	35	35	35	35
5'	25	25	25	25	25	25	30	30	30	30	30	30	32	32	32	32	32	32	32	32	32	32	32	32
6'	18	18	18	18	18	18	22	22	22	22	22	22	25	25	25	25	25	25	27	27	27	27	27	27
7'	13	14	14	14	14	13	17	17	17	17	17	17	19	19	19	19	19	19	22	22	22	22	22	22
8'	11	11	11	11	11	11	14	14	14	14	14	14	16	16	16	16	16	16	18	18	18	18	18	18
9'	10	10	10	10	10	10	12	12	12	12	12	12	14	14	14	14	14	14	16	16	16	16	16	16
	37 9.2:1 2.5:1						36 5.9:1 2.0:1						33 4.1:1 1.8:1						32 3.0:1 1.5:1					

Styles:

F144



Lamp

28W T5 fluorescent
rated 2900 lumens

Reflector

Small cross-section, nominal 48" long
Reflector aiming is adjustable from 25° to 35°
above nadir. High impact polycarbonate baffle
(25° lateral shielding) included

Multipliers for Other Lamps:

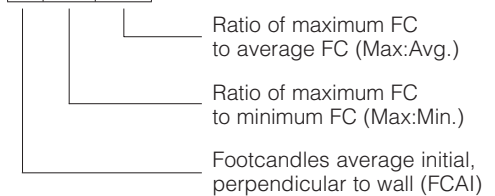
55W (F55T5/HO, 5000 lumens)

1.72



Charts illustrate the center section of a wall lighted by a continuous row of 5 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25	5.0:1	2.5:1
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Indoor Footcandle Charts T5 High Output Fluorescent

Styles:

F101/F102
F115

F210

F105/F106
F109



Lamp 55W T5 high output fluorescent
rated 5000 lumens

Reflector Small cross-section, nominal 48" long
Reflector aiming is adjustable

18" from wall 24" from wall 30" from wall 36" from wall

1'	163	166	167	166	163	127	128	129	128	127	113	114	114	114	113	98	99	99	99	98
2'	119	119	120	119	119	109	110	110	110	110	98	99	99	99	98	91	91	91	91	91
3'	88	89	89	89	88	88	88	88	88	88	84	84	84	84	84	80	80	80	80	80
4'	61	61	61	61	61	70	70	70	70	70	72	72	72	72	72	71	72	72	72	71
5'	42	42	42	42	42	51	51	51	51	51	58	58	58	58	58	61	61	61	61	61
6'	30	30	30	30	30	38	38	38	38	38	44	44	44	44	44	48	49	49	49	48
7'	23	23	23	23	23	29	29	29	29	29	34	34	34	34	34	38	39	39	39	38
8'	18	18	18	18	18	23	23	23	23	23	27	27	27	27	27	31	31	31	31	31
9'	15	15	15	15	15	19	19	19	19	19	22	22	22	22	22	25	26	26	26	25
10'	13	13	13	13	13	16	16	16	16	16	19	19	19	19	19	22	22	22	22	22
11'	11	11	11	11	11	14	14	14	14	14	16	16	16	16	16	19	19	19	19	19
12'	11	11	11	11	11	13	13	13	13	13	15	15	15	15	15	17	17	17	17	17

50 16:1 3.4:1 50 10:1 2.6:1 50 7.7:1 2.3:1 50 5.9:1 2.0:1



30" from wall 36" from wall 42" from wall

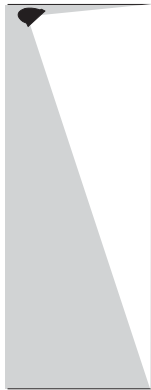
1'	113	114	114	114	113	100	100	101	100	100	85	85	85	85	85
2'	95	95	95	95	95	88	88	88	88	88	81	81	81	81	81
3'	79	79	79	79	79	75	75	75	75	75	71	71	71	71	71
4'	66	67	67	67	66	65	65	65	65	65	62	62	62	62	62
5'	55	55	55	55	55	56	56	56	56	56	56	56	57	56	56
6'	42	42	42	42	42	46	47	47	47	46	48	48	49	48	48
7'	32	33	33	33	32	36	37	37	37	36	40	40	40	40	40
8'	26	26	26	26	26	29	29	29	29	29	32	32	32	32	32
9'	21	21	21	21	21	24	24	24	24	24	26	26	26	26	26
10'	17	17	17	17	17	20	20	20	20	20	22	22	22	22	22
11'	14	15	15	15	14	17	17	17	17	17	18	19	19	19	18
12'	12	12	12	12	12	14	14	14	14	14	16	16	16	16	16
13'	11	11	11	11	11	13	13	13	13	13	14	14	14	14	14
14'	10	10	10	10	10	11	11	11	11	11	13	13	13	13	13
15'	9	9	9	9	9	11	11	11	11	11	12	12	12	12	12

40 12:1 2.8:1 40 9.6:1 2.5:1 40 7.3:1 2.1:1

Charts illustrate the center section of a wall lighted by a continuous row of 5 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)
Ratio of maximum FC to minimum FC (Max:Min.)
Footcandles average initial, perpendicular to wall (FCAI)



24" from wall

1'	123	124	124	124	124	123
2'	109	109	109	109	109	109
3'	85	86	86	86	86	85
4'	69	69	69	69	69	69
5'	50	50	50	50	50	50
6'	37	37	37	37	37	37
7'	28	28	28	28	28	28
8'	22	22	22	22	22	22
9'	18	18	18	18	18	18
10'	16	16	16	16	16	16
11'	14	14	14	14	14	14
12'	13	13	13	13	13	13

49 9.5:1 2.5:1

30" from wall

100	100	100	100	100	100	100
94	94	94	94	94	94	94
76	76	76	76	76	76	76
66	66	66	66	66	66	66
54	54	54	54	54	54	54
41	41	41	41	41	41	41
32	32	32	32	32	32	32
26	26	26	26	26	26	26
21	21	21	21	21	21	21
18	18	18	18	18	18	18
16	16	16	16	16	16	16
14	14	14	14	14	14	14

47 7.1:1 2.1:1

36" from wall

84	85	85	85	85	84
82	82	82	82	82	82
71	71	71	71	71	71
60	60	60	60	60	60
54	54	54	54	54	54
45	45	45	45	45	45
36	36	36	36	36	36
30	30	30	30	30	30
25	25	25	25	25	25
21	21	21	21	21	21
19	19	19	19	19	19
17	17	17	17	17	17

45 5:1 1.9:1

Styles:

F144



Lamp

55W T5 high output fluorescent
rated 5000 initial lumens

Reflector

Small cross-section, nominal 48" long
Reflector aiming is adjustable from 25° to 35°
above nadir. High impact polycarbonate baffle
(25° lateral shielding) included

Multipliers for Other Lamps:

28W (F28T5, 2900 lumens)

0.58



Indoor Footcandle Charts T8 Fluorescent

Styles:

F101/F102
F115

F105/F106
F109



Lamp 32W T8 fluorescent
rated 2900 lumens

Reflector Small cross-section, nominal 48" long
Reflector aiming is adjustable

	12" from wall					18" from wall					24" from wall					30" from wall					36" from wall				
1'	100	106	108	106	100	81	84	85	84	81	63	64	65	64	63	53	53	54	53	53	47	47	47	47	47
2'	50	51	52	51	50	51	52	53	52	51	50	50	51	50	50	46	47	47	47	46	43	44	44	44	43
3'	31	31	31	31	31	36	36	36	36	36	37	38	38	38	37	37	37	37	37	37	36	36	36	36	36
4'	20	20	20	20	20	26	26	26	26	26	29	29	29	29	29	30	30	30	30	30	31	31	31	31	31
5'	14	14	14	14	14	19	19	19	19	19	23	23	23	23	23	25	25	25	25	25	26	26	26	26	26
6'	11	11	11	11	11	14	14	14	14	14	18	18	18	18	18	20	20	20	20	20	22	22	22	22	22
7'	9	9	9	9	9	11	11	11	11	11	14	14	14	14	14	17	17	17	17	17	18	19	19	19	18
8'	7	7	7	7	7	9	10	10	10	9	12	12	12	12	12	14	14	14	14	14	15	15	16	15	15
9'	7	7	7	7	7	8	9	9	9	8	10	10	10	10	10	12	12	12	12	12	13	13	13	13	13
	28 16:1 3.9:1					29 10:1 3.0:1					28 6.3:1 2.3:1					28 4.6:1 1.9:1					28 3.6:1 1.7:1				

Styles:

F110



Lamp 32W T8 fluorescent
rated 2900 lumens

Reflector Small cross-section, nominal 48" long
Reflector aiming is non-adjustable



	18" from wall					24" from wall					30" from wall					36" from wall				
1'	94	97	99	97	94	74	76	76	76	74	66	67	67	67	66	57	58	58	58	57
2'	78	80	80	80	78	66	66	67	66	66	55	56	56	56	55	48	48	49	48	48
3'	51	51	52	51	51	55	55	55	55	55	50	50	50	50	50	44	44	44	44	44
4'	30	30	30	30	30	38	38	38	38	38	40	40	41	41	40	40	40	40	40	40
5'	19	19	19	19	19	25	25	25	25	25	30	30	30	30	30	32	32	32	32	32
6'	13	13	13	13	13	17	17	17	17	17	22	22	22	22	22	25	25	25	25	25
7'	9	9	9	9	9	13	13	13	13	13	16	16	16	16	16	19	19	19	19	19
8'	7	7	7	7	7	10	10	10	10	10	12	12	12	12	12	15	15	15	15	15
9'	6	6	6	6	6	8	8	8	8	8	10	10	10	10	10	12	12	12	12	12
	34 17:1 2.9:1					34 9.5:1 2.2:1					34 6.6:1 2.0:1					32 4.8:1 1.8:1				

Style:

F306

F301



Lamp 32W T8 fluorescent
rated 2900 lumens

Reflector Small cross-section, nominal 48" long
Reflector aiming is adjustable

	12" from wall					24" from wall				
1'	72	72	72	72	72	69	69	69	69	69
2'	42	42	42	42	42	48	48	48	49	49
3'	27	27	27	27	27	36	37	37	37	37
4'	18	19	19	19	19	28	28	28	29	29
5'	14	14	14	14	15	22	22	22	23	23
6'	11	12	12	12	12	18	18	18	18	18
7'	10	10	10	10	10	15	15	15	15	15
8'	9	9	9	9	9	13	13	13	13	13
9'	8	8	9	9	9	11	11	12	12	12
	24 8.6:1 3.0:1					29 6.1:1 2.4:1				

Charts illustrate the center section of a wall lighted by a continuous row of 5 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAl)

	18" from wall					24" from wall					30" from wall					36" from wall				
1'	238	248	253	248	239	196	200	204	201	196	172	174	176	174	172	145	146	147	146	145
2'	166	170	172	170	167	150	152	154	152	150	132	133	134	133	132	123	123	124	123	123
3'	126	127	128	127	126	120	120	121	120	120	112	112	113	113	112	105	106	106	106	105
4'	88	88	89	88	88	97	98	98	98	97	96	96	96	96	96	92	93	93	93	92
5'	63	63	63	63	63	73	73	73	73	73	79	80	80	80	79	80	81	81	81	80
6'	47	47	47	47	47	55	56	56	56	55	62	62	62	62	62	66	67	67	67	66
7'	36	36	36	36	36	44	44	44	44	44	49	50	50	50	49	54	54	54	54	54
8'	28	28	28	28	28	35	35	35	35	35	40	41	41	41	40	44	45	45	45	44
9'	22	22	23	22	22	28	28	29	28	28	33	33	34	33	33	37	37	37	37	37
10'	18	18	19	18	18	23	23	23	23	23	27	28	28	28	27	31	31	32	31	31
11'	15	15	15	15	15	19	19	19	19	19	23	23	23	23	23	26	27	27	27	26
12'	13	13	13	13	13	16	17	17	17	16	20	20	20	20	20	22	23	23	23	22
13'	12	12	12	12	12	15	15	15	15	15	17	18	18	18	17	20	20	20	20	20
14'	11	11	11	11	11	13	13	13	13	13	16	16	16	16	16	18	18	18	18	18
15'	11	11	11	11	11	13	13	13	13	13	15	15	15	15	15	17	17	17	17	17

60 23:1 4.2:1 60 16:1 3.4:1 60 12:1 2.9:1 59 8.9:1 2.5:1

Style:

F103
F104



Lamp

(2) 50W long twin tube compact fluorescent
each rated 4000 lumens

Reflector

Large single lamp cross-section, nominal 48" long
Reflector aiming is adjustable

Multipliers for Other Lamps:

36/39W (2900 lumens)	0.73
40W (3150 lumens)	0.79
55W (4500 lumens)	1.13

	18" from wall					24" from wall					30" from wall				
1'	172	175	177	175	172	155	157	159	158	156	136	137	138	137	136
2'	130	131	132	131	130	125	126	126	126	125	116	116	117	116	116
3'	91	92	92	92	91	100	100	100	100	100	100	101	101	101	101
4'	66	66	66	66	66	73	74	74	74	73	82	83	83	83	82
5'	49	49	49	49	49	57	58	58	58	57	65	65	65	65	65
6'	37	37	37	37	37	45	45	45	45	45	52	52	52	52	52
7'	29	29	29	29	29	36	36	36	36	36	42	42	43	42	42
8'	23	23	23	23	23	29	29	29	29	29	34	35	35	35	34
9'	18	19	19	19	18	23	24	24	24	23	28	29	29	29	28
10'	15	15	15	15	15	20	20	20	20	20	24	24	24	24	24
11'	13	13	13	13	13	17	17	18	17	17	21	21	21	21	21
12'	13	13	13	13	13	16	17	17	17	16	20	20	20	20	20

55 14:1 3.2:1 58 9.7:1 2.7:1 60 7.1:1 2.3:1

Style:

F302



Lamp

(2) 50W long twin tube compact fluorescent
each rated 4000 lumens

Reflector

Large single lamp cross-section, nominal 48" long
Reflector aiming is adjustable

Multipliers for Other Lamps:

36/39W (2900 lumens)	0.73
40W (3150 lumens)	0.79
55W (4500 lumens)	1.13

