

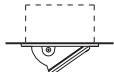
# Indoor Footcandle Charts Tungsten Halogen

## Styles:

T099  
T100



T200



**Lamp** 150W frosted T-4 tungsten halogen  
rated 2700 lumens

**Reflector** Small cross-section, nominal 6-1/2" long  
Reflector aiming is adjustable

### Multipliers for Other Lamps:

100W (Q100DC, 1550 lumens) 0.57

Height	2'-6" from wall										3' from wall																	
	3' o.c.				4' o.c.				5' o.c.				5' o.c.				6' o.c.											
	1'	62	52	52	62	57	42	27	42	57	55	39	17	17	39	55	41	33	20	20	33	41	41	31	17	11	17	32
2'	57	54	54	57	49	42	33	42	49	46	37	23	23	38	46	38	33	24	24	33	38	36	31	20	14	20	31	36
3'	50	50	50	50	41	38	33	38	41	38	33	24	24	33	38	34	31	25	25	31	34	32	28	20	16	20	28	32
4'	39	40	40	39	31	30	30	30	31	27	25	22	22	26	27	28	26	23	23	26	28	26	24	19	15	19	24	26
5'	30	30	30	30	22	23	24	23	22	18	18	18	18	18	18	19	20	20	20	20	19	18	17	16	15	16	17	18
6'	23	24	24	23	18	18	18	18	18	14	15	15	15	15	14	16	16	16	17	16	16	14	14	13	13	14	14	14
7'	19	19	19	19	15	14	14	15	15	12	12	12	12	12	12	13	13	13	13	13	13	11	11	11	11	11	11	11
8'	15	15	15	15	12	12	12	12	12	10	10	9	9	10	10	11	11	11	11	11	11	9	9	9	9	9	9	9
9'	13	13	13	13	10	10	10	10	10	8	8	8	8	8	8	9	9	9	9	9	9	8	8	8	7	8	8	8

33 4.9:1 1.8:1      26 5.9:1 2.2:1      21 7.0:1 2.6:1      21 4.7:1 2.0:1      18 5.6:1 2.3:1

## Styles:

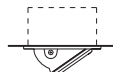
T101/T102  
T115



T120  
T130/T133



T203



**Lamp** 250W frosted T-4 tungsten halogen  
rated 4850 lumens

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

### Multipliers for Other Lamps:

100W (Q100DC, 1550 lumens) 0.32  
150W (Q150DC, 2700 lumens) 0.56  
200W (Q200T3, 3350 lumens) except T115 and T130 0.69

Height	2'-6" from wall										3' from wall																	
	3' o.c.				4' o.c.				5' o.c.				5' o.c.				6' o.c.											
	1'	118	105	106	118	105	83	60	84	105	100	76	41	41	76	101	76	64	44	44	64	76	74	60	36	26	36	60
2'	110	109	109	110	90	83	74	83	90	83	72	52	52	72	83	69	63	53	53	63	69	65	58	43	35	43	58	65
3'	101	101	101	101	78	77	73	77	78	69	64	55	55	65	69	62	60	55	55	60	62	57	54	44	40	44	54	57
4'	84	84	84	84	64	64	63	64	64	54	52	49	49	52	54	55	54	51	51	54	55	49	47	42	39	42	47	49
5'	64	64	64	64	48	49	49	49	48	38	39	40	40	39	38	41	42	43	43	42	41	36	36	35	35	35	36	36
6'	50	50	50	50	38	39	38	39	38	30	31	32	32	31	30	33	34	35	35	34	33	28	29	29	30	29	29	28
7'	40	40	40	40	31	31	30	31	31	25	25	25	25	25	25	29	29	28	28	29	29	24	24	24	24	24	24	24
8'	32	33	33	32	26	25	25	26	26	21	21	20	20	21	21	24	24	23	23	24	24	20	20	20	19	20	20	20
9'	27	27	27	27	22	21	21	22	22	18	18	17	17	18	18	21	20	20	20	20	21	17	17	17	16	17	17	17

69 4.4:1 1.7:1      53 5.0:1 2.0:1      43 5.9:1 2.3:1      43 3.9:1 1.8:1      36 4.5:1 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

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)

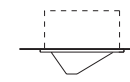
Height	3' from wall						4' from wall																					
	4' o.c.			6' o.c.			6' o.c.				8' o.c.																	
	1'	71	61	52	61	72	65	51	30	21	30	52	65	41	37	29	25	29	37	41	39	34	24	16	13	16	25	34
2'	72	69	66	69	72	61	54	40	32	40	54	61	43	41	36	33	36	41	43	40	36	29	22	18	22	30	37	40
3'	64	64	63	64	64	50	47	40	35	40	47	50	40	39	36	35	36	39	40	35	33	29	23	21	23	29	33	35
4'	59	59	58	59	59	43	42	38	36	38	42	43	37	37	36	35	36	37	37	32	31	28	24	23	24	28	31	32
5'	49	49	49	49	49	34	34	33	32	33	34	34	35	35	34	33	34	35	35	29	28	26	24	23	24	26	28	29
6'	39	39	39	39	39	26	26	27	27	27	26	26	29	29	30	30	30	29	29	23	23	22	22	21	22	22	23	23
7'	32	32	32	32	32	21	22	22	22	22	22	21	24	25	25	25	25	24	18	19	19	19	19	19	19	19	18	
8'	26	26	26	26	26	18	18	18	18	18	18	18	21	21	21	21	21	21	16	16	16	17	17	17	16	16	16	
9'	22	22	22	22	22	16	16	15	15	15	16	16	19	19	18	18	18	19	19	14	14	14	14	14	14	14	14	14
10'	19	19	19	19	19	14	13	13	13	13	13	14	17	16	16	16	16	17	12	12	12	12	12	12	12	12	12	
11'	16	16	16	16	16	12	12	11	11	11	12	12	15	14	14	14	14	15	11	11	11	11	11	11	11	11	11	
12'	14	15	15	15	14	11	11	10	10	10	11	11	13	13	13	13	13	13	10	10	10	10	9	10	10	10	10	

39 5.0:1 1.8:1      27 6.3:1 2.4:1      27 3.4:1 1.6:1      20 4.2:1 1.9:1

Distance from wall	2'-6" from wall									3' from wall																		
	3' o.c.			4' o.c.			5' o.c.			5' o.c.			6' o.c.															
1'	120	113	113	120	104	88	68	89	104	99	79	47	47	80	99	74	64	46	46	64	74	71	60	38	28	38	60	71
2'	106	106	106	106	86	80	74	81	86	78	69	53	53	69	78	62	58	50	50	59	62	59	53	41	34	41	54	59
3'	102	105	105	102	78	79	79	79	78	68	65	59	59	65	68	54	53	51	51	54	54	49	47	42	38	42	48	49
4'	87	86	86	87	64	66	65	66	64	53	53	52	52	53	53	52	52	52	52	53	52	46	45	42	41	42	46	46
5'	63	64	64	64	49	49	49	49	49	38	40	40	40	40	38	41	42	42	42	42	41	35	36	35	35	35	36	35
6'	49	51	52	50	39	39	40	39	39	31	32	32	32	32	31	33	33	34	34	34	33	27	28	29	28	29	28	27
7'	41	43	43	41	32	33	34	33	32	27	27	27	27	27	27	28	28	28	28	28	28	23	24	24	24	24	24	23
8'	36	36	36	36	28	28	29	28	28	23	23	23	23	23	23	24	25	25	25	25	25	21	21	21	21	21	21	21
9'	31	31	31	31	24	25	25	25	24	20	20	20	21	20	20	22	22	23	23	22	22	19	19	19	19	19	19	19
	71 3.9:1 1.7:1			54 4.3:1 1.9:1			44 4.9:1 2.2:1			42 3.3:1 1.8:1			35 3.7:1 2.0:1															

**Style:**

T201



**Lamp**

250W frosted T-4 tungsten halogen rated 4850 lumens

**Reflector**

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

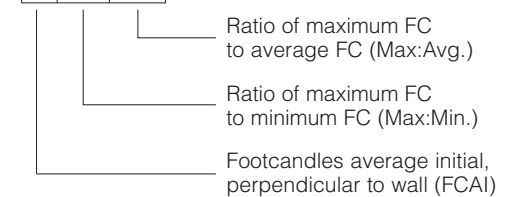
**Multipliers for Other Lamps:**

100W (Q100DC, 1550 lumens)	0.32
150W (Q150DC, 2700 lumens)	0.56
200W (Q200T3, 3350 lumens)	0.69

Distance from wall	3' from wall					4' from wall																						
	4' o.c.		6' o.c.			6' o.c.				8' o.c.																		
1'	79	73	64	73	80	71	60	38	28	38	60	71	40	36	30	27	30	37	40	37	33	25	17	14	17	25	33	37
2'	71	69	67	69	71	58	53	40	34	40	53	58	40	39	35	33	35	39	40	36	34	28	21	19	21	29	34	36
3'	63	65	66	65	63	49	47	41	38	41	47	49	36	35	33	32	33	35	36	32	30	26	22	20	22	26	30	32
4'	62	64	64	65	62	45	45	41	41	41	45	45	33	33	33	33	33	33	33	28	28	25	23	22	23	25	28	28
5'	52	51	51	52	52	35	35	35	35	35	35	35	33	33	34	34	34	34	33	27	27	25	24	24	24	25	27	27
6'	40	40	41	40	40	27	27	28	27	28	27	27	29	30	30	30	30	30	29	23	23	23	22	22	22	23	23	23
7'	32	33	34	33	32	22	23	23	23	23	23	22	25	25	25	25	25	25	25	19	19	19	19	19	19	19	19	19
8'	27	28	29	28	27	19	19	19	20	19	20	19	21	21	21	21	21	21	21	16	16	16	16	16	16	16	16	16
9'	24	24	25	24	24	17	17	17	17	17	17	17	18	18	18	19	18	18	18	14	14	14	14	14	14	14	14	14
10'	21	21	21	21	21	15	15	15	15	15	15	15	16	16	16	17	16	16	16	12	13	13	13	13	13	13	13	12
11'	18	19	19	19	18	13	13	13	13	13	13	13	15	15	15	16	15	15	15	12	12	12	12	12	12	12	12	12
12'	16	17	17	17	16	12	12	12	12	12	12	12	14	14	14	15	15	15	14	11	11	11	11	11	11	11	11	11
	42 4.9:1 1.9:1			29 6.0:1 2.4:1			26 2.8:1 1.5:1				20 3.3:1 1.9:1																	

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 Tungsten Halogen

## Styles:

T103/T104 T107 T204  
T116

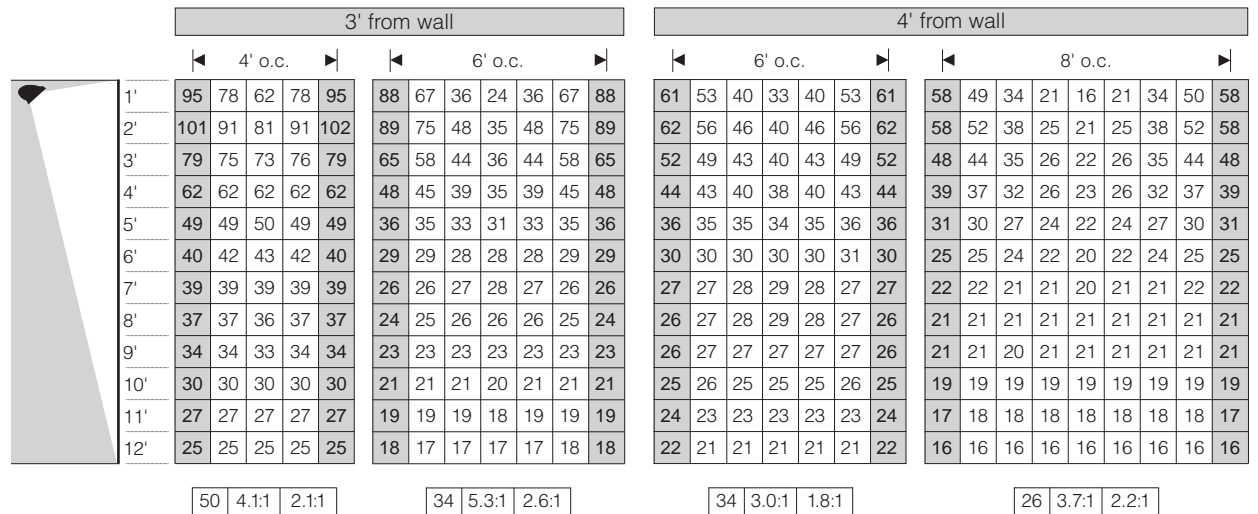
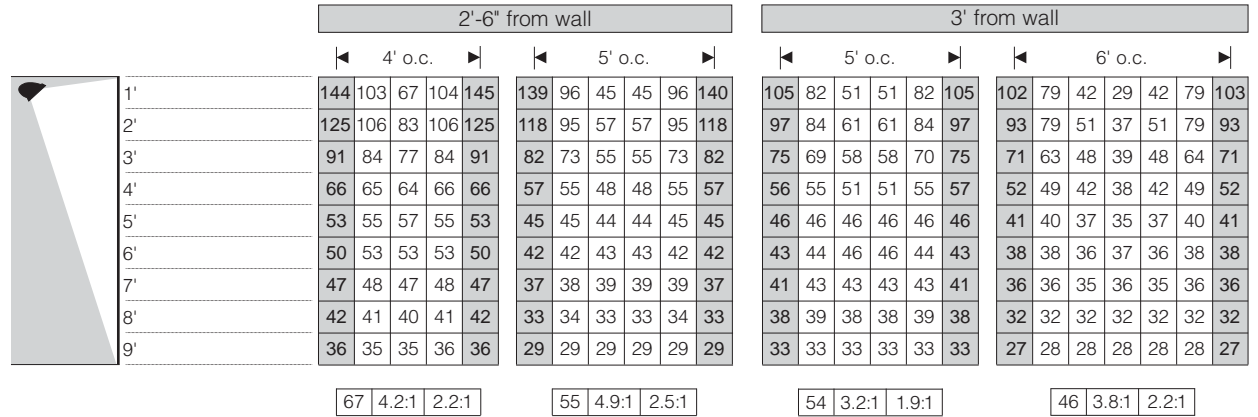


**Lamp** 300W frosted T-3 tungsten halogen rated 5950 lumens

**Reflector** Large cross-section, nominal 12" long (surface), 17" long (cylinder and semi-recessed)  
Reflector aiming is adjustable

### Multipliers for Other Lamps:

350W (Q350T3/CL/HIR, 10,000 lumens) 1.68  
500W (Q300T3, 10,300 lumens) 1.73



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.							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2'	99	71	71	99	93	59	31	60	93	76	64	64	76	67	52	35	52	67	65	47	24	24	47	65
4'	68	62	62	68	60	49	35	49	60	60	58	58	60	51	45	37	45	51	47	40	26	26	40	47
6'	47	46	46	47	38	35	32	36	38	46	47	47	46	38	35	34	36	38	34	30	25	25	30	34
8'	33	35	35	33	26	26	26	26	26	35	36	36	35	28	27	27	28	28	23	23	21	21	23	23
10'	29	30	30	29	22	23	24	23	22	31	31	31	31	23	24	25	24	23	19	19	19	19	19	19
12'	27	27	27	27	20	21	21	21	20	30	29	29	30	22	23	23	23	22	18	18	19	19	18	18
14'	23	23	23	23	18	18	17	18	18	27	27	27	27	21	21	20	21	21	16	17	17	17	17	16
16'	20	20	20	20	16	16	15	16	16	23	24	24	23	19	18	18	18	19	15	15	15	15	15	15
18'	18	19	19	18	15	14	14	14	15	21	22	22	21	17	17	16	17	17	14	14	13	13	14	14
	39 5.4:1 2.6:1				30 6.7:1 3.1:1				38 3.6:1 2.0:1				29 4.1:1 2.3:1				24 4.8:1 2.7:1							

**Styles:**

T103/T104 T107 T204  
T116



**Lamp**

500W frosted T-3 tungsten halogen rated 10,300 lumens

**Reflector**

Large cross-section, nominal 12" long (surface), 17" long (cylinder and semi-recessed) Reflector aiming is adjustable

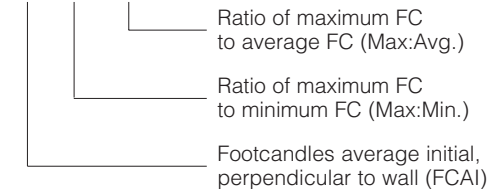
**Multipliers for Other Lamps:**

300W (Q300T3, 5950 lumens) 0.58  
350W (Q350T3/CL/HIR, 10,000 lumens) 0.97

Height	5' from wall												6' from wall														
	6' o.c.				8' o.c.				10' o.c.				8' o.c.				12' o.c.										
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4							
2'	70	58	58	70	62	47	32	47	62	60	43	21	21	43	60	47	39	32	39	47	43	33	19	13	19	33	43
4'	57	55	55	57	49	43	36	43	49	45	38	25	25	38	45	43	39	36	39	43	36	31	22	16	22	31	36
6'	43	44	44	43	35	33	31	33	35	31	28	23	23	28	31	33	32	32	32	33	27	24	19	16	20	24	27
8'	33	34	34	33	26	25	25	26	26	22	21	19	19	21	22	26	26	26	26	26	20	19	17	16	17	19	20
10'	26	26	26	26	19	20	21	20	19	16	16	16	16	16	16	20	21	21	21	20	15	15	14	13	14	15	15
12'	23	23	23	23	17	18	18	18	17	14	14	15	15	14	14	17	18	18	18	17	12	12	12	12	12	12	12
14'	21	21	21	21	16	16	16	16	16	12	13	13	13	13	12	17	17	17	17	17	11	11	12	12	12	11	11
16'	18	19	19	18	15	14	14	14	15	12	12	12	12	12	12	16	16	15	16	16	10	11	11	11	11	11	10
18'	16	17	17	16	13	13	13	13	13	11	11	10	10	11	11	14	14	14	14	14	10	10	10	10	10	10	10
20'	15	15	15	15	12	12	12	12	12	10	9	9	9	9	10	13	13	13	13	13	9	9	9	9	9	9	9
22'	13	14	14	13	11	11	11	11	11	9	9	9	9	9	9	12	12	12	12	12	8	8	8	8	8	8	8
24'	13	13	13	13	10	10	10	10	10	9	8	8	8	8	9	11	11	11	11	11	8	8	8	8	8	8	8
	29 5.4:1 2.4:1				22 6.1:1 2.8:1				18 7.1:1 3.3:1				22 4.2:1 2.2:1				15 5.6:1 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 Tungsten Halogen

## Styles:

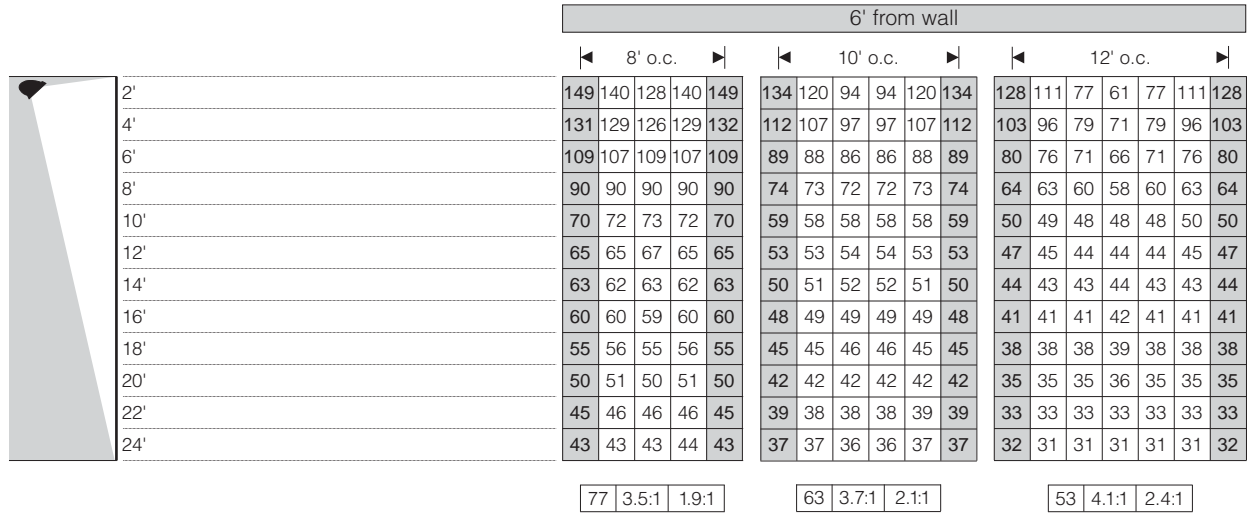
T103/T104 T107  
T116



**Lamp** 900W clear T-3 tungsten halogen  
rated 31,000 lumens

**Reflector** Large cross-section, nominal 24" long  
Reflector aiming is adjustable

**Multipliers for Other Lamps:**  
1000W (Q1000T3/CL, 21,000 lumens) 0.68



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)

