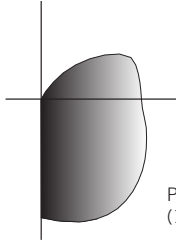


# TOOL T5L



Photometric Drawing for  
(1) T5L-1T528

TYPE \_\_\_\_\_ PROJECT \_\_\_\_\_



## CATALOG NUMBER

FIXTURE		LAMPING (SEE CROSS SECTION)		VOLTAGE		MOUNT		OPTIONS	
<b>T5L</b>	Tool T5 (no shielding)	<b>1T528</b>	1x28w T5	<b>120</b>	120 v	<b>PEN</b>	Pendant mount	<b>FUS</b>	Fusing
		<b>1T521</b>	1x21w T5	<b>277</b>	277 v	<b>CLG</b>	Ceiling mount		
		<b>1T514</b>	1x14w T5			<b>WAL</b>	Wall mount		

### \* DETAILS – OPTIONS

**FUS** GLR fuse for each ballast

## SPECIFICATIONS

**Construction.** Fixture body constructed of extruded aluminum. Housing endcaps are formed aluminum and lampholder endcaps are milled aluminum.

**Shielding.** No shielding.

**Finish.** Natural anodized aluminum.

**Electrical.** Specify 120 or 277 volts. Fixture is UL/CUL Listed for damp locations. Supplied with integral electronic ballast.

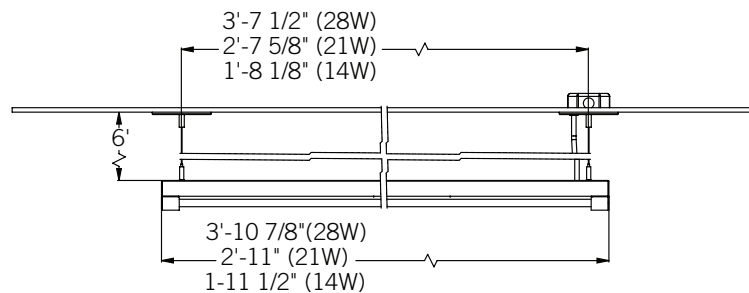
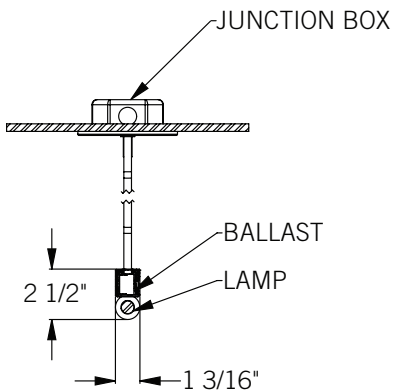
**Lamping.** (1) 28 watt T5 or (1) 21 watt T5 or (1) 14 watt T5 fluorescent lamp. Lamp not included.

**Mounting.** Fixture surface mounts over standard octagonal junction box on the ceiling, or over Energie junction box (included) on the wall. Fixture can also be pendant mounted. See page 2 for additional mounting options and accessories.

**ADA COMPLIANT.**

## DIMENSIONS & DETAILS (cont'd on page 2)

### PENDANT MOUNT



Installation instructions may be found at [www.energielighting.com](http://www.energielighting.com).

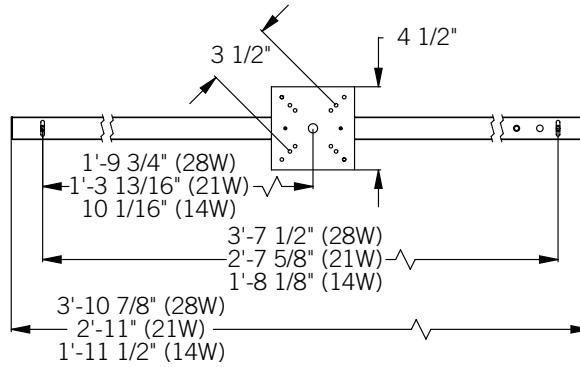
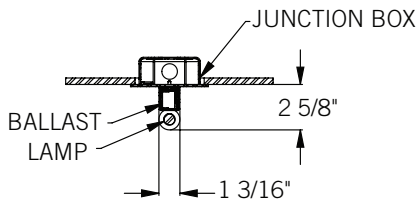


Energie LLC, 4885 Ward Road, Suite 300, Wheat Ridge CO 80033 Tel 720.963.8055 Fax 720.963.8044 [www.energielighting.com](http://www.energielighting.com)  
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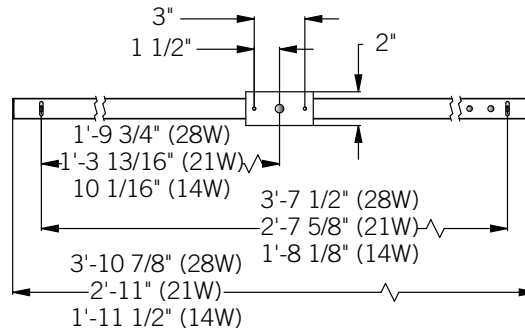
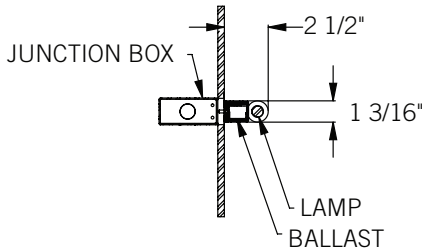


## DIMENSIONS & DETAILS cont'd

### CEILING MOUNT



### WALL MOUNT



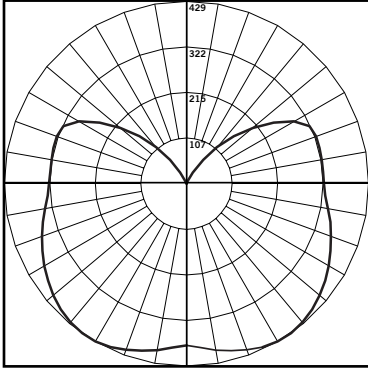
Installation instructions may be found at [www.energielighting.com](http://www.energielighting.com).

# TOOL T5L

TYPE \_\_\_\_\_  
PROJECT \_\_\_\_\_

## PHOTOMETRICS

T5L-1T528



### CANDELA DISTRIBUTION

	0	45	90
0	380.6	380.6	380.6
5	387.7	382.8	377.1
15	407.3	386.9	361.4
25	424.2	381.6	329.3
35	429.1	367.0	282.6
45	418.4	341.4	227.3
55	398.7	306.5	166.8
65	374.7	268.1	105.7
75	350.6	231.4	49.9
85	328.3	202.4	8.9
95	322.5	197.8	0.2
105	324.7	207.4	0.0
115	320.0	179.2	0.0
125	250.3	118.8	0.0
135	157.4	57.3	0.0
145	68.3	8.9	0.0
155	6.4	0.4	0.0
165	0.1	0.0	0.0
175	0.1	0.1	0.0

### LUMINAIRE

**Description:** Tool T5 1x28w

**Catalog Number:** T5L-1T528-120-CLG

**Efficiency:** 96%

**Distribution:** 70.7% direct, 29.3% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	90-DEG	180-DEG
45	5250	5263	8390
55	4781	4629	7428
65	4431	4090	6168
75	4216	3679	4417
85	4144	3470	1740

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	320.85	12.3	12.9
0 - 40	547.41	21.1	21.9
0 - 60	1069.33	41.1	42.9
0 - 90	1762.98	67.8	70.7
90-120	556.61	21.4	22.3
90 - 130	335.92	25.5	26.6
90 - 150	730.86	28.1	29.3
90 - 180	732.34	28.2	29.3
0 - 180	2495.34	96	100

### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	36.58
10-20	109.13
20-30	175.14
30-40	226.55
40-50	256.99
50-60	264.94
60-70	254.31
70-80	231.78
80-90	207.57
90-100	200
100-110	193.74
110-120	162.87
120-130	106.31
130-140	52.19
140-150	15.76
150-160	1.47
160-170	.02
170-180	0

### COEFFICIENTS OF UTILIZATION

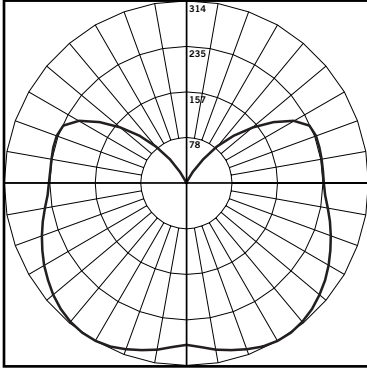
RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	102	102	102	102	91	91	91	81	81	81	72	72	72	68
1	95	89	83	79	89	84	79	75	74	71	67	66	63	60	58	56	54	49
2	85	76	68	62	79	71	64	59	63	58	53	56	51	48	49	45	42	39
3	77	65	57	50	72	62	54	47	55	48	43	48	43	39	42	38	35	31
4	70	57	48	41	65	54	46	39	48	41	36	42	37	32	37	33	29	26
5	64	51	41	35	59	48	39	33	43	36	30	38	32	27	33	28	25	22
6	58	45	36	30	55	43	35	29	38	31	26	34	28	24	30	25	21	19
7	54	41	32	26	51	38	31	25	34	28	23	31	25	21	27	22	19	16
8	50	37	28	23	47	35	27	22	31	25	20	28	22	18	25	20	17	14
9	47	34	26	20	44	32	24	19	29	22	18	26	20	16	23	18	15	13
10	44	31	23	18	41	29	22	17	26	20	16	24	18	15	21	17	13	11

# TOOL T5L

TYPE \_\_\_\_\_  
PROJECT \_\_\_\_\_

## PHOTOMETRICS

T5L-1T521



### CANDELA DISTRIBUTION

	0	45	90
0	278.1	278.1	278.1
5	283.3	279.7	275.6
15	297.6	282.7	264.1
25	310.0	278.9	240.6
35	313.6	268.2	206.5
45	305.7	249.5	166.1
55	291.3	224.0	121.9
65	273.9	195.9	77.2
75	256.2	169.1	36.4
85	239.9	147.9	6.5
95	235.7	144.6	0.1
105	237.3	151.6	0.0
115	233.9	130.9	0.0
125	182.9	86.8	0.0
135	115.0	41.8	0.0
145	49.9	6.5	0.0
155	4.7	0.1	0.0
165	0.1	0.0	0.0
175	0.0	0.0	0.0

### LUMINAIRE

Description: Tool T5 1x21w

Catalog Number: T5L-1T521-120-CLG

Efficiency: 96%

Distribution: 70.7% direct, 29.3% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	90-DEG	180-DEG
45	5136	5125	8071
55	4677	4504	7098
65	4337	3976	5829
75	4125	3574	4083
85	4054	3368	1507

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	234.47	12.3	12.9
0 - 40	400.03	21.1	21.9
0 - 60	781.43	41.1	42.9
0 - 90	1288.31	67.8	70.7
90-120	406.76	21.4	22.3
90 - 130	484.43	25.5	26.6
90 - 150	534.07	28.1	29.3
90 - 180	535.15	28.2	29.3
0 - 180	1823.46	96	100

### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	26.73
10-20	79.75
20-30	127.98
30-40	165.56
40-50	187.79
50-60	193.61
60-70	185.84
70-80	169.38
80-90	151.67
90-100	146.14
100-110	141.58
110-120	119.03
120-130	77.68
130-140	38.13
140-150	11.51
150-160	1.07
160-170	.01
170-180	0

### COEFFICIENTS OF UTILIZATION

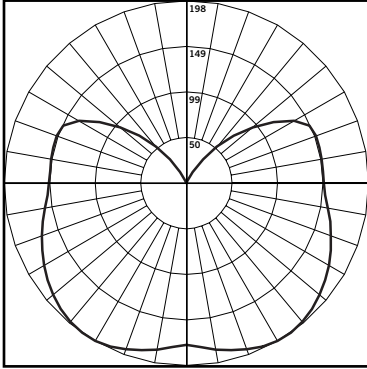
RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	102	102	102	102	91	91	91	81	81	81	72	72	72	68
1	95	89	83	79	89	84	79	75	74	71	67	66	63	60	58	56	54	49
2	85	76	68	62	79	71	64	59	63	58	53	56	51	48	49	45	42	39
3	77	65	57	50	72	62	54	47	55	48	43	48	43	39	42	38	35	31
4	70	57	48	41	65	54	46	39	48	41	36	42	37	32	37	33	29	26
5	64	51	41	35	59	48	39	33	43	36	30	38	32	27	33	28	25	22
6	58	45	36	30	55	43	35	29	38	31	26	34	28	24	30	25	21	19
7	54	41	32	26	51	38	31	25	34	28	23	31	25	21	27	22	19	16
8	50	37	28	23	47	35	27	22	31	25	20	28	22	18	25	20	17	14
9	47	34	26	20	44	32	24	19	29	22	18	26	20	16	23	18	15	13
10	44	31	23	18	41	29	22	17	26	20	16	24	18	15	21	17	13	11

# TOOL T5L

TYPE \_\_\_\_\_  
PROJECT \_\_\_\_\_

## PHOTOMETRICS

T5L-1T514



### CANDELA DISTRIBUTION

	0	45	90
0	175.7	175.7	175.5
5	178.9	176.7	174.0
15	188.0	178.6	166.8
25	195.8	176.1	152.0
35	198.0	169.4	130.5
45	193.1	157.6	104.9
55	184.0	141.4	77.0
65	173.0	123.7	48.8
75	161.8	106.8	23.0
85	151.5	93.4	4.1
95	148.8	91.3	0.1
105	149.9	95.7	0.0
115	147.7	82.7	0.0
125	115.5	54.8	0.0
135	72.6	26.4	0.0
145	31.5	4.1	0.0
155	3.1	0.1	0.0
165	0.0	0.0	0.0
175	0.0	0.0	0.0

### LUMINAIRE

**Description:** Tool T5 1x14w  
**Catalog Number:** T5L-1T514-120-CLG  
**Efficiency:** 96%  
**Distribution:** 70.7% direct, 29.3% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	90-DEG	180-DEG
45	4833	4776	7352
55	4401	4189	6388
65	4081	3694	5152
75	3881	3317	3483
85	3814	3121	1160

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	148.09	12.3	12.9
0 - 40	252.65	21.1	21.9
0 - 60	493.53	41.1	42.9
0 - 90	813.67	67.8	70.7
90-120	256.89	21.4	22.3
90 - 130	305.94	25.5	26.6
90 - 150	337.3	28.1	29.3
90 - 180	337.99	28.2	29.3
0 - 180	1151.66	96	100

### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	16.88
10-20	50.37
20-30	80.83
30-40	104.56
40-50	118.6
50-60	122.27
60-70	117.37
70-80	106.98
80-90	95.8
90-100	92.3
100-110	89.42
110-120	75.17
120-130	49.05
130-140	24.08
140-150	7.28
150-160	.68
160-170	.01
170-180	0

### COEFFICIENTS OF UTILIZATION

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	102	102	102	102	91	91	91	81	81	81	72	72	72	68
1	95	89	83	79	89	84	79	75	74	71	67	66	63	60	58	56	54	49
2	85	76	68	62	79	71	64	59	63	58	53	56	51	48	49	45	42	39
3	77	65	57	50	72	62	54	47	55	48	43	48	43	39	42	38	35	31
4	70	57	48	41	65	54	46	39	48	41	36	42	37	32	37	33	29	26
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7	54	41	32	26	51	38	31	25	34	28	23	31	25	21	27	22	19	16
8	50	37	28	23	47	35	27	22	31	25	20	28	22	18	25	20	17	14
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10	44	31	23	18	41	29	22	17	26	20	16	24	18	15	21	17	13	11