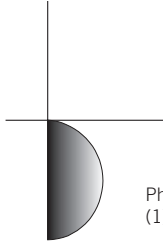
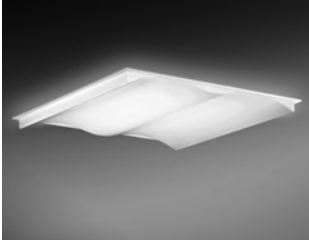


# LIVENTY



Photometric Drawing for  
(1) LIV-3T514 UP

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



## CATALOG NUMBER

FIXTURE	LAMPING	VOLTAGE	MOUNT	OPTIONS
<b>LIV</b> Liventy	<b>3T514</b> 3x14w T5 lamping <b>4T514</b> 4x14w T5 lamping <b>3T524</b> 3x24w T5HO lamping <b>4T524</b> 4x24w T5HO lamping <b>2T5B55</b> 2x55w Biax lamping	<b>120</b> 120 v <b>277</b> 277 v <b>347</b> 347 v*	<b>FLG</b> Recessed hard ceiling with flange kit <b>GRD</b> Standard 9/16" - 15/16" T-bar grid ceiling <b>SUR</b> Surface mount <b>PEN</b> Pendant mount with aircraft cable	<b>CCEA</b> City of Chicago Environmental Air <b>DIM**</b> Electronic Dimming <b>FUS</b> Fusing <b>EM</b> Emergency Battery Pack

\* 347 V not available with -DIM or -EM      \*\*0-10VDC 5 wire dimming not available for 24w T5HO lamping. Please consult factory for other dimming options.

**CCEA** City of Chicago Environmental Air Compliant

**DIM** 0-10VDC 5 wire (green, black, white + purple & gray) dimming ballasts

**FUS** Integral ballast fusing

**EM** Emergency battery pack with minimum 450 lumens and 90 minute duration & 4 wire (green, black, white + red) wiring

## SPECIFICATIONS

**Construction.** Housing constructed of formed steel.

**Electrical.** Specify 120, 277 or 347 volts. Fixture is UL/CUL listed for damp locations.

**Mounting.** Fixture can be recessed into grid or hard ceilings, surface mounted or pendant mounted on aircraft cable.

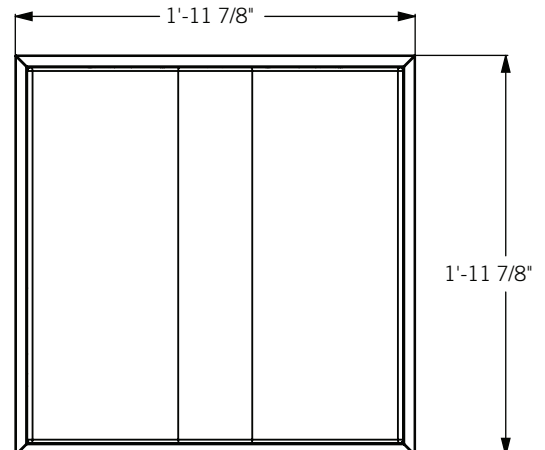
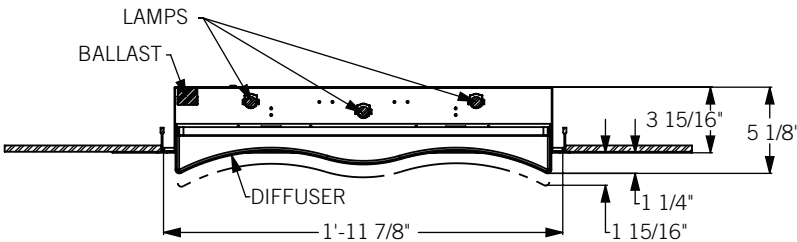
**Shielding.** Diffuser is molded PMMA.

**Lamping.** (3) or (4) 14w T5 lamps, (3) or (4) 24w T5HO lamps or (2) 55w Biax lamps. Lamps not included.

**Finish.** Housing is painted in white powder coat.

## DIMENSIONS & DETAILS

3 LAMP T5



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

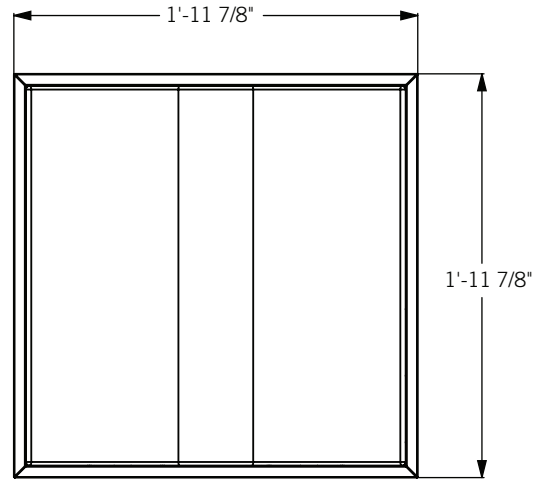
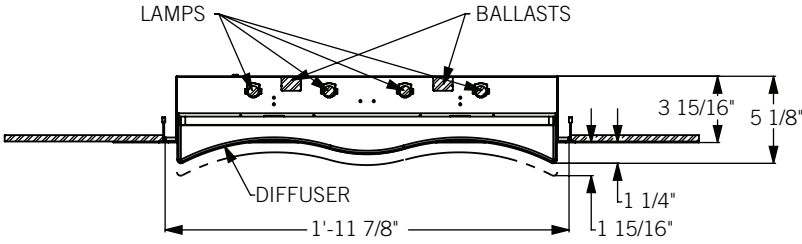


Energie LLC, 4885 Ward Road, Suite 300, Wheat Ridge CO 80033 Tel 720.963.8055 Fax 720.963.8044 [www.energielighting.com](http://www.energielighting.com)  
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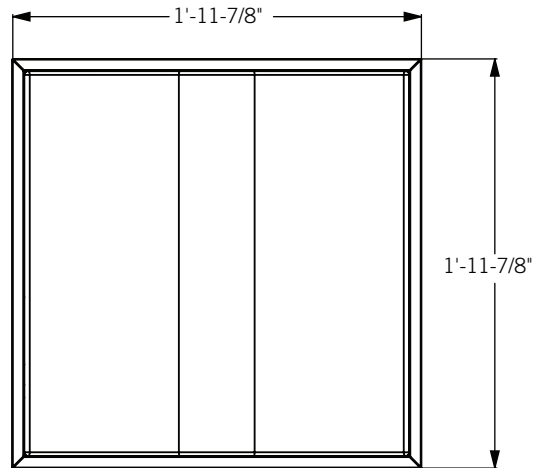
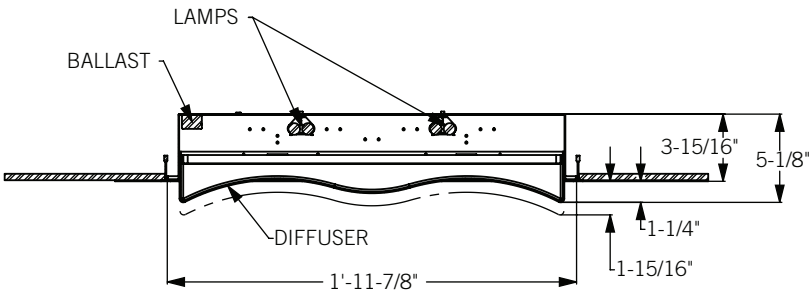


## DIMENSIONS & DETAILS (cont'd)

### 4 LAMP T5

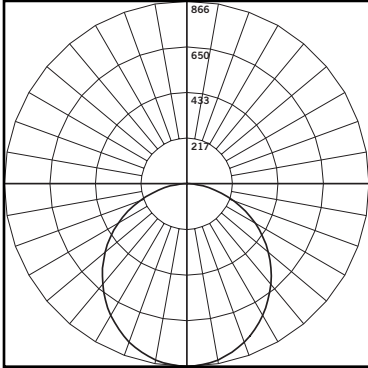


### 2 LAMP BIAx



## PHOTOMETRICS

LIV-3T514 UP



### CANDELA DISTRIBUTION

	0	45	90
0	866	866	866
5	862	865	862
15	828	833	833
25	763	772	774
35	673	686	692
45	565	581	590
55	443	463	475
65	309	334	348
75	170	203	217
85	52	86	90
95	8	28	37
105	4	17	27
115	2	9	19
125	0	4	11
135	0	0	5
145	0	0	0
155	0	0	0
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 3x14w T5 lamping and diffusor in the up position

**Catalog Number:** LIV-3T514

**Efficiency:** 74%

**Distribution:** 98% direct, 2% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	2303	2318	2405
55	2177	2208	2334
65	1988	2058	2239
75	1656	1846	2113
85	1111	1584	1923

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	671.92	18.7	25.4
0 - 40	1100.2	30.6	41.5
0 - 60	1959.95	54.4	74
0 - 90	2588.53	71.9	97.7
90-120	55.58	1.5	2.1
90 - 130	59.87	1.7	2.3
90 - 150	61.29	1.7	2.3
90 - 180	61.29	1.7	2.3
0 - 180	2649.82	73.6	100

### ZONAL LUMEN SUMMARY

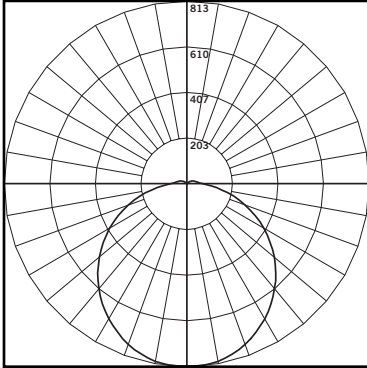
ZONE	LUMENS
0-10	82.06
10-20	234.79
20-30	355.07
30-40	428.28
40-50	447.51
50-60	412.24
60-70	328.31
70-80	210.8
80-90	89.47
90-100	29.02
100-110	17.15
110-120	9.41
120-130	4.29
130-140	1.35
140-150	.07
150-160	0
160-170	0
170-180	0

### 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	87	87	87	87	85	85	85	85	81	81	81	77	77	77	74	74	74	72
1	79	75	72	69	77	73	70	67	70	67	65	67	65	63	64	62	61	59
2	72	65	60	55	69	64	59	55	61	57	53	58	55	52	56	53	50	49
3	65	57	51	46	63	56	50	45	53	48	44	51	47	43	49	45	42	41
4	60	50	44	39	58	49	43	38	47	42	38	45	41	37	43	39	36	34
5	55	45	38	33	53	44	38	33	42	37	32	41	36	32	39	35	31	30
6	50	40	34	29	49	40	33	29	38	32	28	37	32	28	35	31	27	26
7	47	37	30	25	45	36	30	25	35	29	25	33	28	25	32	28	24	23
8	43	33	27	23	42	33	27	23	32	26	22	31	26	22	30	25	22	20
9	41	31	24	20	39	30	24	20	29	24	20	28	23	20	27	23	20	18
10	39	28	22	18	37	28	22	18	27	22	18	26	21	18	25	21	18	17

## PHOTOMETRICS

LIV-3T514 DOWN



### CANDELA DISTRIBUTION

	0	45	90
0	812	812	812
5	809	812	810
15	779	785	784
25	720	730	732
35	639	654	658
45	542	561	567
55	431	454	462
65	309	337	348
75	181	218	227
85	71	108	109
95	29	55	60
105	21	40	48
115	14	29	37
125	9	17	27
135	4	9	18
145	1	2	9
155	0	0	1
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 3x14w T5 lamping and diffusor in the down position

**Catalog Number:** LIV-3T514

**Efficiency:** 75%

**Distribution:** 95% direct, 5% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	2142	2145	2241
55	2029	2042	2175
65	1869	1912	2105
75	1599	1746	2005
85	1231	1549	1890

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	634.26	17.6	23.6
0 - 40	1042.35	29	38.7
0 - 60	1876.26	52.1	69.7
0 - 90	2543.33	70.6	94.5
90-120	121.14	3.4	4.5
90 - 130	136.55	3.8	5.1
90 - 150	146.55	4.1	5.4
90 - 180	146.77	4.1	5.5
0 - 180	2690.11	74.7	100

### ZONAL LUMEN SUMMARY

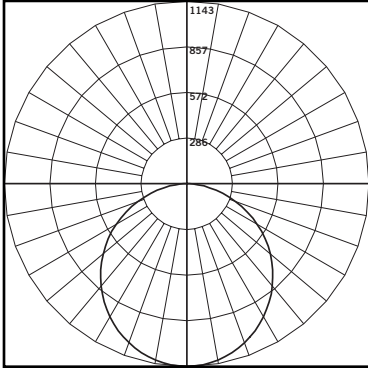
ZONE	LUMENS
0-10	77.11
10-20	221.19
20-30	335.95
30-40	408.09
40-50	430.68
50-60	403.23
60-70	330.31
70-80	224.39
80-90	112.37
90-100	55.51
100-110	39.3
110-120	26.32
120-130	15.41
130-140	7.55
140-150	2.46
150-160	.22
160-170	0
170-180	0

### 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	88	88	88	88	85	85	85	85	81	81	81	76	76	76	73	73	73	71
1	79	75	72	69	77	73	70	67	69	67	64	66	63	62	62	61	59	57
2	72	65	60	55	69	63	58	54	60	56	52	57	53	50	54	51	49	47
3	65	57	50	45	63	55	49	45	53	47	43	50	46	42	47	44	41	39
4	60	50	43	38	57	49	43	38	46	41	37	44	40	36	42	38	35	33
5	55	45	38	33	53	44	37	32	42	36	32	40	35	31	38	34	30	28
6	50	40	33	28	49	39	33	28	37	32	27	36	31	27	34	30	26	25
7	47	36	30	25	45	36	29	25	34	28	24	33	28	24	31	27	23	22
8	43	33	27	22	42	32	26	22	31	26	22	30	25	21	29	24	21	19
9	41	30	24	20	39	30	24	20	29	23	19	27	23	19	26	22	19	17
10	38	28	22	18	37	27	22	18	26	21	18	25	21	17	24	20	17	16

## PHOTOMETRICS

LIV-4T514 UP



### CANDELA DISTRIBUTION

	0	45	90
0	1143	1143	1143
5	1138	1141	1138
15	1096	1103	1102
25	1015	1025	1027
35	902	916	921
45	762	780	789
55	600	623	637
65	420	452	468
75	233	275	290
85	72	113	116
95	11	36	47
105	6	21	35
115	2	11	25
125	0	5	15
135	0	1	8
145	0	0	1
155	0	0	0
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 4x14w T5 lamping and diffusor in the up position

**Catalog Number:** LIV-4T514

**Efficiency:** 74%

**Distribution:** 98% direct, 2% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	3106	3112	3216
55	2949	2972	3131
65	2702	2785	3011
75	2269	2501	2824
85	1539	2081	2479

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	890.82	18.6	25.1
0 - 40	1462.8	30.5	41.2
0 - 60	2618.86	54.6	73.8
0 - 90	3466.11	72.2	97.7
90-120	72.22	1.5	2
90 - 130	77.99	1.6	2.2
90 - 150	80.47	1.7	2.3
90 - 180	80.47	1.7	2.3
0 - 180	3546.57	73.9	100

### ZONAL LUMEN SUMMARY

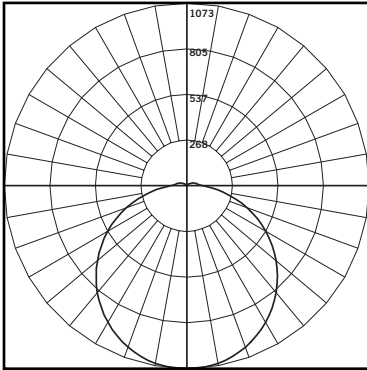
ZONE	LUMENS
0-10	108.35
10-20	310.72
20-30	471.75
30-40	571.98
40-50	600.57
50-60	555.49
60-70	443.75
70-80	284.89
80-90	118.61
90-100	37.62
100-110	22.3
110-120	12.3
120-130	5.77
130-140	2.22
140-150	.25
150-160	0
160-170	0
170-180	0

### 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	88	88	88	88	85	85	85	85	81	81	81	77	77	77	74	74	74	72
1	79	76	72	69	77	74	71	68	70	68	65	67	65	63	64	62	61	59
2	72	65	60	56	70	64	59	55	61	57	53	58	55	52	56	53	50	49
3	65	57	51	46	63	56	50	45	53	48	44	51	47	43	49	45	42	41
4	60	51	44	39	58	49	43	38	47	42	38	45	41	37	44	40	36	35
5	55	45	38	33	53	44	38	33	42	37	32	41	36	32	39	35	31	30
6	51	40	34	29	49	40	33	29	38	32	28	37	32	28	35	31	27	26
7	47	37	30	25	45	36	30	25	35	29	25	33	28	25	32	28	24	23
8	44	33	27	23	42	33	27	22	32	26	22	31	26	22	30	25	22	20
9	41	31	24	20	40	30	24	20	29	24	20	28	23	20	27	23	20	18
10	38	28	22	18	37	28	22	18	27	22	18	26	21	18	25	21	18	16

## PHOTOMETRICS

LIV-4T514 DOWN



### CANDELA DISTRIBUTION

	0	45	90
0	1072	1072	1072
5	1069	1072	1068
15	1031	1039	1036
25	960	971	971
35	858	875	877
45	732	754	758
55	585	613	620
65	420	457	466
75	247	295	302
85	98	145	141
95	40	73	77
105	30	53	64
115	20	36	50
125	12	21	35
135	5	10	23
145	1	2	11
155	0	0	2
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 4x14w T5 lamping and diffusor in the down position

**Catalog Number:** LIV-4T514

**Efficiency:** 75%

**Distribution:** 95% direct, 5% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	2893	2882	2995
55	2754	2757	2919
65	2540	2592	2818
75	2181	2362	2667
85	1699	2080	2444

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	841.36	17.5	23.4
0 - 40	1387.16	28.9	38.5
0 - 60	2510.58	52.3	69.7
0 - 90	3409.95	71	94.6
90-120	160.95	3.4	4.5
90 - 130	180.77	3.8	5
90 - 150	192.86	4	5.4
90 - 180	193.13	4	5.4
0 - 180	3603.08	75.1	100

### ZONAL LUMEN SUMMARY

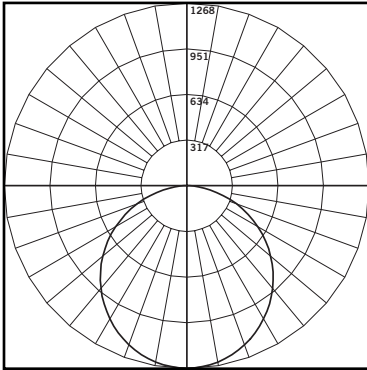
ZONE	LUMENS
0-10	101.77
10-20	292.75
20-30	446.84
30-40	545.79
40-50	579.17
50-60	544.26
60-70	446.42
70-80	302.93
80-90	150.02
90-100	73.47
100-110	52.74
110-120	34.74
120-130	19.82
130-140	9.2
140-150	2.89
150-160	.27
160-170	0
170-180	0

### 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	88	88	88	88	86	86	86	86	81	81	81	77	77	77	73	73	73	71
1	80	76	72	69	77	74	70	67	70	67	64	66	64	62	63	61	59	57
2	72	65	60	55	70	64	59	54	60	56	52	57	54	51	54	51	49	47
3	65	57	51	45	63	56	50	45	53	48	43	50	46	42	48	44	41	39
4	60	50	43	38	58	49	43	38	47	41	37	44	40	36	42	38	35	33
5	55	45	38	33	53	44	37	32	42	36	32	40	35	31	38	34	30	28
6	51	40	33	28	49	39	33	28	38	32	27	36	31	27	34	30	26	25
7	47	36	30	25	45	36	29	25	34	28	24	33	28	24	31	27	23	22
8	44	33	27	22	42	32	26	22	31	26	22	30	25	21	29	24	21	19
9	41	30	24	20	39	30	24	20	29	23	19	27	23	19	26	22	19	17
10	38	28	22	18	37	27	22	18	26	21	18	25	21	17	25	20	17	16

## PHOTOMETRICS

LIV-3T524 UP



### CANDELA DISTRIBUTION

	0	45	90
0	1268	1268	1268
5	1262	1265	1264
15	1215	1223	1223
25	1127	1138	1140
35	1002	1017	1024
45	848	868	879
55	670	696	710
65	471	506	524
75	263	311	329
85	83	133	139
95	12	42	55
105	6	25	42
115	2	13	29
125	0	5	18
135	0	0	9
145	0	0	1
155	0	0	0
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 3x24w T5HO lamping and diffusor in the up position

**Catalog Number:** LIV-3T524

**Efficiency:** 75%

**Distribution:** 98% direct, 2% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	3457	3463	3583
55	3293	3320	3489
65	3030	3118	3371
75	2561	2828	3204
85	1774	2449	2970

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	988.63	18.8	25
0 - 40	1624.28	30.9	41
0 - 60	2912.92	55.5	73.5
0 - 90	3870.39	73.7	97.7
90-120	82.12	1.6	2.1
90 - 130	88.34	1.7	2.2
90 - 150	90.68	1.7	2.3
90 - 180	90.68	1.7	2.3
0 - 180	3961.07	75.4	100

### ZONAL LUMEN SUMMARY

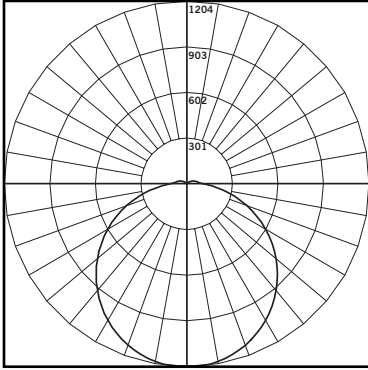
ZONE	LUMENS
0-10	120.18
10-20	344.72
20-30	523.72
30-40	635.66
40-50	668.64
50-60	620
60-70	497.05
70-80	322.23
80-90	138.19
90-100	43.38
100-110	25.2
110-120	13.53
120-130	6.22
130-140	2.12
140-150	.22
150-160	0
160-170	0
170-180	0

### 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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	75	75	75	74
1	81	77	74	70	79	75	72	69	72	69	67	68	66	64	65	64	62	60
2	73	67	61	57	71	65	60	56	62	58	54	59	56	53	57	54	51	50
3	67	58	52	47	65	57	51	46	54	49	45	52	48	44	50	46	43	41
4	61	51	45	39	59	50	44	39	48	43	38	46	41	38	44	40	37	35
5	56	46	39	34	54	45	38	33	43	37	33	41	36	32	40	35	32	30
6	52	41	34	29	50	40	34	29	39	33	29	37	32	28	36	31	28	26
7	48	37	31	26	46	37	30	26	35	30	25	34	29	25	33	28	25	23
8	44	34	27	23	43	33	27	23	32	27	23	31	26	22	30	26	22	21
9	41	31	25	21	40	31	25	21	30	24	20	29	24	20	28	23	20	19
10	39	29	23	19	38	28	23	19	27	22	18	27	22	18	26	21	18	17

## PHOTOMETRICS

LIV-3T524 DOWN



### CANDELA DISTRIBUTION

	0	45	90
0	1202	1202	1202
5	1199	1203	1200
15	1157	1167	1165
25	1076	1090	1091
35	962	982	985
45	820	846	852
55	656	688	696
65	471	512	523
75	277	332	341
85	109	165	163
95	44	83	88
105	33	60	72
115	22	40	56
125	13	23	39
135	5	11	25
145	2	2	12
155	0	0	2
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 3x24w T5HO lamping and diffusor in the down position

**Catalog Number:** LIV-3T524

**Efficiency:** 77%

**Distribution:** 95% direct, 5% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	3240	3234	3367
55	3088	3095	3276
65	2849	2904	3163
75	2446	2658	3012
85	1890	2367	2826

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	944.79	18	23.3
0 - 40	1557.47	29.7	38.5
0 - 60	2818.14	53.7	69.6
0 - 90	3830.65	73	94.7
90-120	180.71	3.4	4.5
90 - 130	202.28	3.9	5
90 - 150	215.48	4.1	5.3
90 - 180	215.76	4.1	5.3
0 - 180	4046.41	77.1	100

### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	114.29
10-20	328.82
20-30	501.68
30-40	612.68
40-50	649.96
50-60	610.71
60-70	501.13
70-80	340.86
80-90	170.53
90-100	83.4
100-110	58.63
110-120	38.67
120-130	21.57
130-140	10.12
140-150	3.08
150-160	.28
160-170	0
170-180	0

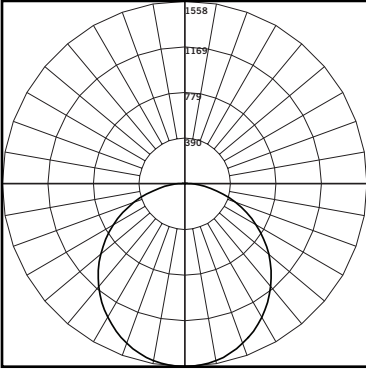
### COEFFICIENTS OF UTILIZATION

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	91	91	91	91	88	88	88	88	83	83	83	79	79	79	75	75	75	73
1	82	78	74	71	79	76	72	69	71	69	66	68	65	63	64	62	61	59
2	74	67	61	57	71	65	60	56	62	57	54	59	55	52	56	53	50	48
3	67	59	52	47	65	57	51	46	54	49	45	51	47	43	49	45	42	40
4	61	52	45	39	59	50	44	39	48	42	38	46	41	37	43	39	36	34
5	56	46	39	34	54	45	38	33	43	37	32	41	36	32	39	34	31	29
6	52	41	34	29	50	40	34	29	39	33	28	37	32	28	35	31	27	25
7	48	37	30	26	46	37	30	25	35	29	25	33	28	24	32	27	24	22
8	45	34	27	23	43	33	27	23	32	26	22	31	26	22	29	25	21	20
9	42	31	25	20	40	31	24	20	29	24	20	28	23	20	27	23	19	18
10	39	29	23	18	38	28	22	18	27	22	18	26	21	18	25	21	17	16



## PHOTOMETRICS

LIV-4T524 UP



### CANDELA DISTRIBUTION

	0	45	90
0	1557	1557	1557
5	1550	1555	1552
15	1491	1501	1501
25	1379	1394	1397
35	1223	1243	1252
45	1031	1057	1071
55	810	843	862
65	566	610	633
75	313	371	393
85	96	152	157
95	14	48	62
105	7	28	46
115	2	15	31
125	0	6	19
135	0	0	9
145	0	0	1
155	0	0	0
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 4x24w T5HO lamping and diffusor in the up position

**Catalog Number:** LIV-4T524

**Efficiency:** 69%

**Distribution:** 98% direct, 2% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	4202	4217	4366
55	3981	4021	4236
65	3641	3759	4072
75	3048	3374	3828
85	2052	2799	3355

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	1212.41	17.3	25.3
0 - 40	1989.07	28.4	41.4
0 - 60	3554.43	50.8	74
0 - 90	4696.98	67.1	97.8
90-120	93.72	1.3	2
90 - 130	100.68	1.4	2.1
90 - 150	103.39	1.5	2.2
90 - 180	103.39	1.5	2.2
0 - 180	4800.38	68.6	100

### ZONAL LUMEN SUMMARY

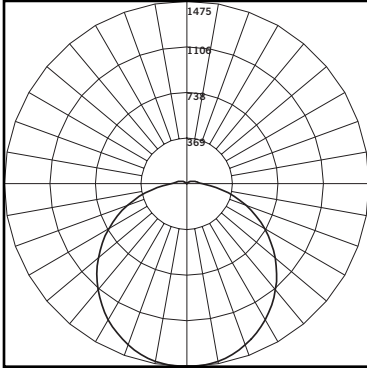
ZONE	LUMENS
0-10	147.64
10-20	423.12
20-30	641.65
30-40	776.66
40-50	813.91
50-60	751.44
60-70	599.04
70-80	384.15
80-90	159.37
90-100	49.64
100-110	28.76
110-120	15.31
120-130	6.96
130-140	2.47
140-150	.24
150-160	0
160-170	0
170-180	0

### 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	81	81	81	81	79	79	79	79	75	75	75	72	72	72	69	69	69	67
1	74	70	67	64	72	68	66	63	65	63	61	62	60	59	60	58	57	55
2	67	61	56	52	65	59	55	51	57	53	50	54	51	48	52	49	47	45
3	61	53	47	43	59	52	47	42	50	45	41	48	44	40	46	42	39	38
4	55	47	41	36	54	46	40	36	44	39	35	42	38	34	41	37	34	32
5	51	42	36	31	49	41	35	31	39	34	30	38	33	30	36	32	29	28
6	47	38	31	27	46	37	31	27	35	30	26	34	30	26	33	29	26	24
7	44	34	28	24	42	33	28	24	32	27	23	31	26	23	30	26	23	21
8	40	31	25	21	39	31	25	21	29	24	21	28	24	20	28	23	20	19
9	38	28	23	19	37	28	23	19	27	22	19	23	22	18	25	21	18	17
10	35	26	21	17	34	26	21	17	25	20	17	24	20	17	24	20	17	15

## PHOTOMETRICS

LIV-4T524 DOWN \_\_\_\_\_



### CANDELA DISTRIBUTION

	0	45	90
0	1473	1473	1473
5	1469	1474	1470
15	1416	1428	1424
25	1315	1331	1332
35	1172	1197	1200
45	997	1029	1035
55	795	833	844
65	569	619	633
75	334	398	410
85	131	193	190
95	53	97	104
105	40	71	85
115	27	48	65
125	16	27	46
135	7	14	29
145	1	3	14
155	0	0	2
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 4x24w T5HO lamping and diffusor in the down position

**Catalog Number:** LIV-4T524

**Efficiency:** 70%

**Distribution:** 95% direct, 5% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	3940	3934	4090
55	3742	3747	3973
65	3441	3511	3828
75	2950	3187	3621
85	2271	2769	3294

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	1154.69	16.5	23.6
0 - 40	1901.07	27.2	38.8
0 - 60	3431	49	70
0 - 90	4646.14	66.4	94.8
90-120	214.22	3.1	4.4
90 - 130	240.19	3.4	4.9
90 - 150	256.17	3.7	5.2
90 - 180	256.52	3.7	5.2
0 - 180	4902.66	70	100

### ZONAL LUMEN SUMMARY

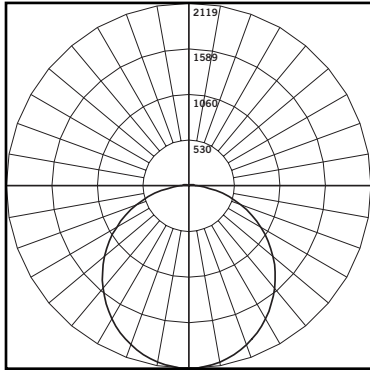
ZONE	LUMENS
0-10	139.94
10-20	402.13
20-30	612.62
30-40	746.38
40-50	789.79
50-60	740.14
60-70	605.25
70-80	409
80-90	200.88
90-100	98.12
100-110	70.22
110-120	45.89
120-130	25.97
130-140	12.25
140-150	3.73
150-160	.35
160-170	0
170-180	0

### 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	83	83	83	83	80	80	80	80	76	76	76	72	72	72	68	68	68	66
1	74	71	67	64	72	69	66	63	65	63	60	62	60	58	59	57	55	54
2	67	61	56	52	65	59	55	51	56	52	49	53	50	47	51	48	46	44
3	61	53	47	43	59	52	46	42	49	45	41	47	43	39	45	41	38	37
4	56	47	41	36	54	46	40	35	44	38	34	42	37	34	40	36	33	31
5	51	42	35	31	49	41	35	30	39	34	30	37	33	29	35	31	28	27
6	47	38	31	27	46	37	31	26	35	30	26	34	29	25	32	28	25	23
7	44	34	28	23	42	33	27	23	32	27	23	31	26	22	29	25	22	20
8	41	31	25	21	39	30	25	21	29	24	20	28	23	20	27	23	20	18
9	38	28	23	19	37	28	22	18	27	22	18	26	21	18	25	21	18	16
10	36	26	21	17	34	26	20	17	25	20	16	24	19	15	23	19	16	15

## PHOTOMETRICS

LIV-2T5B55 UP



### CANDELA DISTRIBUTION

	0	45	90
0	2116	2116	2116
5	2096	2107	2109
15	2014	2030	2035
25	1858	1879	1882
35	1641	1669	1673
45	1378	1408	1421
55	1069	1113	1128
65	738	799	813
75	402	471	484
85	120	176	167
95	17	60	76
105	8	36	55
115	2	20	38
125	0	9	23
135	0	0	11
145	0	0	1
155	0	0	0
165	0	0	0
175	0	0	0

### LUMINAIRE

**Description:** Liventy with 2x55w biax lamping and difussor in the up position

**Catalog Number:** LIV-2T5B55

**Efficiency:** 66%

**Distribution:** 98% direct, 2% indirect

### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	5617	5617	5792
55	5254	5309	5544
65	4748	4924	5230
75	3915	4283	4714
85	2654	3241	3569

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	1635.68	17	25.9
0 - 40	2676.05	27.9	42.3
0 - 60	4747.45	49.5	75.1
0 - 90	6195.15	64.5	98
90-120	113.46	1.2	1.8
90 - 130	121.99	1.3	1.9
90 - 150	124.79	1.3	2
90 - 180	124.79	1.3	2
0 - 180	6319.94	65.8	100

### ZONAL LUMEN SUMMARY

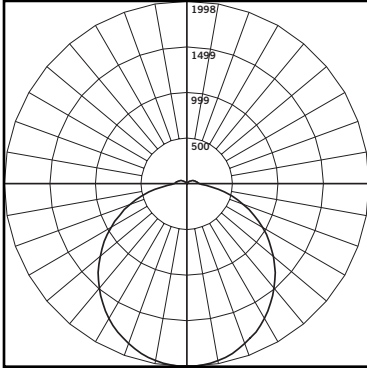
ZONE	LUMENS
0-10	200.12
10-20	571.77
20-30	863.79
30-40	1040.37
40-50	1082.68
50-60	988.72
60-70	776.93
70-80	483.15
80-90	187.63
90-100	59.55
100-110	34.92
110-120	18.98
120-130	8.53
130-140	2.6
140-150	.2
	0
160-170	0
170-180	0

### 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	78	78	78	78	76	76	76	76	72	72	72	69	69	69	66	66	66	65
1	71	68	65	62	69	66	63	61	63	61	59	60	58	57	57	56	55	53
2	64	59	54	50	62	57	53	49	55	51	48	52	49	47	50	48	45	44
3	58	51	46	41	57	50	45	41	48	44	40	46	42	39	44	41	38	37
4	53	45	39	35	52	44	39	35	43	38	34	41	37	33	39	36	33	31
5	49	41	34	30	48	40	34	30	38	33	29	37	32	29	35	32	28	27
6	45	36	30	26	44	36	30	26	34	29	26	33	29	25	32	28	25	24
7	42	33	27	23	41	32	29	23	31	26	23	30	26	22	29	25	22	21
8	39	30	24	21	38	30	24	20	29	24	20	28	23	20	27	23	20	19
9	37	28	22	18	36	27	22	18	26	22	18	26	21	18	25	21	18	17
10	34	25	20	17	33	25	20	17	24	20	17	24	19	16	23	19	16	15

## PHOTOMETRICS

### LIV-2T5B55 DOWN



#### CANDELA DISTRIBUTION

	0	45	90
0	1992	1992	1992
5	1980	1988	1989
15	1907	1922	1924
25	1763	1785	1791
35	1560	1593	1599
45	1322	1361	1371
55	1043	1094	1103
65	732	797	809
75	424	506	512
85	158	230	211
95	63	119	124
105	47	87	101
115	32	60	79
125	19	37	51
135	8	17	31
145	1	3	13
155	0	0	0
165	0	0	0
175	0	0	0

#### LUMINAIRE

**Description:** Liventy with 2x55w biax lamping and difussor in the down position

**Catalog Number:** LIV-2T5B55

**Efficiency:** 67%

**Distribution:** 95% direct, 5% indirect

#### LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	5224	5203	5418
55	4910	4921	5192
65	4427	4521	4893
75	3745	4052	4522
85	2739	3300	3658

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	1550.95	16.2	24.2
0 - 40	2546.15	26.5	39.7
0 - 60	4563.04	47.5	71.2
0 - 90	6103.89	63.6	95.2
90-120	258.79	2.7	4
90 - 130	289.54	3	4.5
90 - 150	306.52	3.2	4.8
90 - 180	306.52	3.2	4.8
0 - 180	6410.41	66.8	100

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	188.7
10-20	541.15
20-30	821.1
30-40	995.2
40-50	1046.09
50-60	970.8
60-70	782.5
70-80	516.25
80-90	242.1
90-100	118.24
100-110	84.28
110-120	56.27
120-130	30.75
130-140	13.49
140-150	3.5
150-160	0
160-170	0
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	79	79	79	79	77	77	77	77	72	72	72	69	69	69	65	65	65	64
1	71	68	65	62	69	66	63	60	62	60	58	59	57	56	56	55	53	52
2	64	59	54	50	62	57	53	49	54	50	47	51	48	46	49	46	44	42
3	59	51	45	41	57	50	45	40	47	43	39	45	41	38	43	40	37	35
4	53	45	39	34	52	44	38	34	42	37	33	40	36	32	38	35	32	30
5	49	40	34	30	47	39	34	29	38	32	29	36	31	28	34	30	27	26
6	46	36	30	26	44	35	30	25	34	29	25	32	28	24	31	27	24	23
7	42	33	27	23	41	32	26	22	31	26	22	29	25	22	28	24	21	20
8	39	30	24	20	38	29	24	20	28	23	20	27	23	19	26	22	19	18
9	36	27	22	18	35	27	22	18	26	21	18	25	21	17	24	20	17	16
10	34	25	20	16	33	25	20	16	24	19	16	23	19	16	22	18	16	14