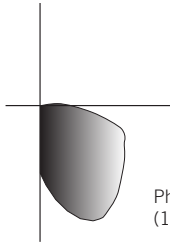


TOOL T5 ASYMMETRIC



Photometric Drawing for
(1) T5A-1T528

TYPE _____ PROJECT _____



CATALOG NUMBER

FIXTURE		LAMPING (SEE CROSS SECTION)	VOLTAGE	MOUNT	OPTIONS
T5A	Tool T5 (asymmetric)	1T528 1x28w T5	120 120 v	PEN Pendant mount	FUS Fusing
		1T521 1x21w T5	277 277 v		
		1T514 1x14w T5			

* 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. Natural aluminum reflector with asymmetric distribution.

Finish. Natural anodized aluminum.

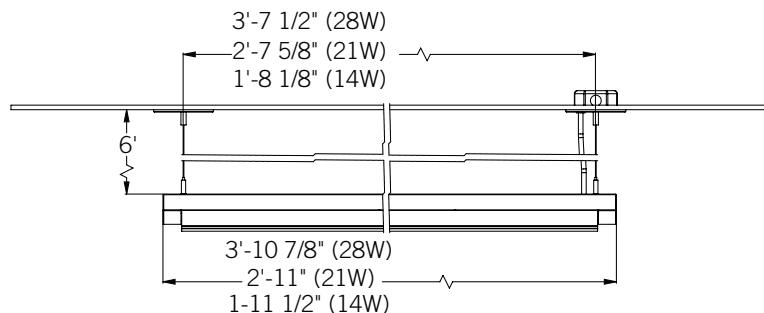
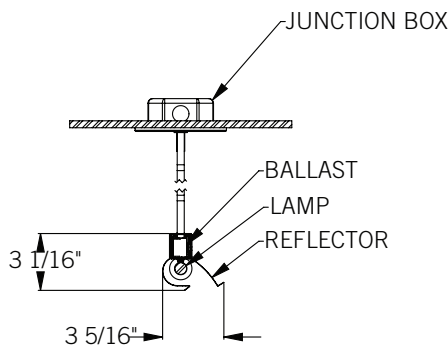
Electrical. Specify 120 or 277 volts. Fixture is UL/CUL Listed for damp locations. Supplied with integral electronic ballast.

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. Fixture can also be pendant mounted. See page 2 for additional mounting options and accessories.

DIMENSIONS & DETAILS (cont'd on page 2)

PENDANT MOUNT



Installation instructions may be found at www.energielighting.com.



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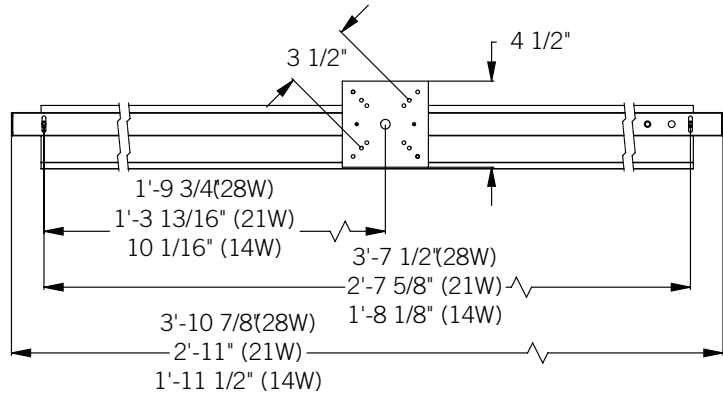
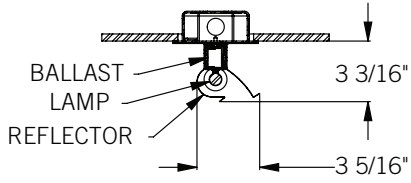


TOOL T5 ASYMMETRIC

TYPE _____
PROJECT _____

DIMENSIONS & DETAILS cont'd

CEILING MOUNT



Installation instructions may be found at www.energielighting.com.



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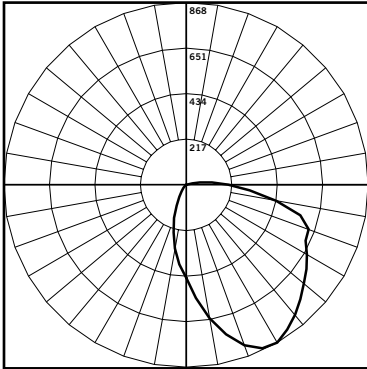


TOOL T5 ASYMMETRIC

TYPE _____
PROJECT _____

PHOTOMETRICS

T5A-1T528



CANDELA DISTRIBUTION

	0	45	90
0	443.8	443.8	443.8
5	541.8	508.6	441.0
15	737.3	636.7	414.9
25	859.1	710.1	367.4
35	841.0	727.8	302.8
45	769.7	654.1	231.7
55	699.4	550.2	162.3
65	627.2	455.2	101.3
75	564.4	380.6	52.6
85	303.6	205.1	10.8
95	124.8	61.7	0.8
105	30.5	7.0	0.4
115	0.1	4.2	0.2
125	0.1	2.5	0.2
135	0.0	1.3	0.1
145	0.0	0.5	0.1
155	0.0	0.1	0.0
165	0.0	0.0	0.0
175	0.0	0.0	0.0

LUMINAIRE

Description: Tool T5 1x28w with Asymmetric Reflector

Catalog Number: T5A-1T528-120-CLG

Efficiency: 65%

Distribution: 100% direct

LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	5443	5250	3011
55	5039	4611	2530
65	4752	4122	2051
75	4658	3876	1587
85	2846	2472	680

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	373.73	14.4	22.1
0 - 40	619.06	23.8	36.6
0 - 60	1124.92	43.3	66.5
0 - 90	1643.26	63.2	97.2
90-120	46.32	1.8	2.7
90 - 130	47.03	1.8	2.8
90 - 150	47.49	1.8	2.8
90 - 180	47.52	1.8	2.8
0 - 180	1690.78	65	100

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	43.21
10-20	129.13
20-30	201.38
30-40	245.33
40-50	258
50-60	247.84
60-70	223.6
70-80	188.01
80-90	106.74
90-100	36.76
100-110	8.18
110-120	1.38
120-130	.72
130-140	.33
140-150	.12
150-160	.03
160-170	0
170-180	0

COEFFICIENTS OF UTILIZATION

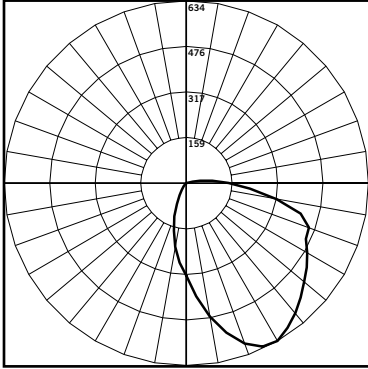
RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	77	77	77	77	75	75	75	75	71	71	71	68	68	68	65	65	65	63
1	69	65	61	58	67	63	60	57	60	57	55	57	55	53	54	53	51	49
2	62	55	50	46	60	54	49	45	51	47	44	49	45	43	47	44	41	40
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6	43	34	28	23	42	33	27	23	32	26	23	30	26	22	29	25	22	20
7	40	31	24	20	39	30	24	20	29	24	20	28	23	20	26	22	19	18
8	37	28	22	18	36	27	22	18	26	21	18	25	21	17	24	20	17	16
9	35	25	20	16	33	25	20	16	24	19	16	23	19	16	22	18	15	14
10	32	23	18	15	31	23	18	14	22	18	14	22	17	14	21	17	14	13

TOOL T5 ASYMMETRIC

TYPE _____
PROJECT _____

PHOTOMETRICS

T5A-1T521



CANDELA DISTRIBUTION

	0	45	90
0	324.3	324.3	324.3
5	395.9	371.7	322.3
15	538.3	465.3	303.2
25	627.8	518.9	268.5
35	614.6	531.9	221.2
45	562.5	478.0	169.3
55	511.1	402.1	118.6
65	458.4	332.6	74.0
75	412.4	278.1	38.5
85	221.9	149.9	7.9
95	91.2	45.1	0.6
105	22.3	5.1	0.3
115	0.0	3.0	0.2
125	0.0	1.8	0.1
135	0.0	1.0	0.1
145	0.0	0.4	0.1
155	0.0	0.1	0.0
165	0.0	0.0	0.0
175	0.0	0.0	0.0

LUMINAIRE

Description: Tool T5 1x21w with Asymmetric Reflector

Catalog Number: T5A-1T521-120-CLG

Efficiency: 65%

Distribution: 100% direct

LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	5327	5089	2883
55	4930	4461	2402
65	4650	3978	1922
75	4557	3730	1455
85	2786	2371	580

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	273.11	14.4	22.1
0 - 40	452.39	23.8	36.6
0 - 60	822.05	43.3	66.5
0 - 90	1200.85	63.2	97.2
90-120	33.85	1.8	2.7
90 - 130	34.37	1.8	2.8
90 - 150	34.71	1.8	2.8
90 - 180	34.72	1.8	2.8
0 - 180	1235.57	65	100

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	31.58
10-20	94.37
20-30	147.16
30-40	179.28
40-50	188.54
50-60	181.12
60-70	163.41
70-80	137.88
80-90	78.01
90-100	26.86
100-110	5.98
110-120	1
120-130	.52
130-140	.25
140-150	.09
150-160	.01
160-170	0
170-180	0

COEFFICIENTS OF UTILIZATION

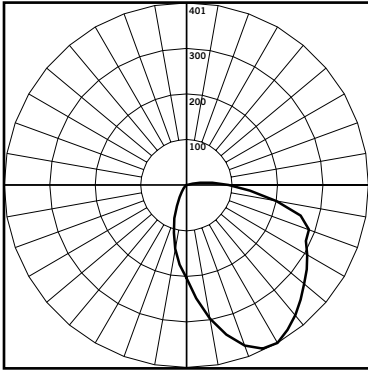
RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	77	77	77	77	75	75	75	75	71	71	71	68	68	68	65	65	65	63
1	69	65	61	58	67	63	60	57	60	57	55	57	55	53	54	53	51	49
2	62	55	50	46	60	54	49	45	51	47	44	49	45	43	47	44	41	40
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8	37	28	22	18	36	27	22	18	26	21	18	25	21	17	24	20	17	16
9	35	25	20	16	33	25	20	16	24	19	16	23	19	16	22	18	15	14
10	32	23	18	15	31	23	18	14	22	18	14	22	17	14	21	17	14	13

TOOL T5 ASYMMETRIC

TYPE _____
PROJECT _____

PHOTOMETRICS

T5A-1T514



CANDELA DISTRIBUTION

	0	45	90
0	204.8	204.8	204.8
5	250.0	234.7	203.5
15	340.3	293.9	191.5
25	396.5	327.7	169.9
35	388.2	335.9	139.7
45	355.2	301.9	106.9
55	322.8	253.9	74.9
65	289.5	210.1	46.7
75	260.5	175.7	24.3
85	140.1	94.7	5.0
95	57.6	28.5	0.4
105	14.1	3.2	0.2
115	0.0	1.9	0.1
125	0.0	1.1	0.0
135	0.0	0.6	0.0
145	0.0	0.2	0.0
155	0.0	0.0	0.0
165	0.0	0.0	0.0
175	0.0	0.0	0.0

LUMINAIRE

Description: Tool T5 1x14w with Asymmetric Reflector

Catalog Number: T5A-1T514-120 -CLG

Efficiency: 65%

Distribution: 100% direct

LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	5011	4702	2604
55	4639	4105	2138
65	4375	3647	1672
75	4289	3404	1215
85	2620	2149	437

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	172.49	14.4	22.1
0 - 40	285.73	23.8	36.6
0 - 60	519.19	43.3	66.5
0 - 90	758.43	63.2	97.2
90-120	21.39	1.8	2.7
90 - 130	21.72	1.8	2.8
90 - 150	21.92	1.8	2.8
90 - 180	21.92	1.8	2.8
0 - 180	780.35	65	100

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	19.94
10-20	59.6
20-30	92.95
30-40	113.23
40-50	119.08
50-60	114.39
60-70	103.2
70-80	86.77
80-90	49.26
90-100	16.97
100-110	3.78
110-120	.64
120-130	.33
130-140	.15
140-150	.05
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	77	77	77	77	75	75	75	75	71	71	71	68	68	68	65	65	65	63
1	69	65	61	58	67	63	60	57	60	57	55	57	55	53	54	53	51	49
2	62	55	50	46	60	54	49	45	51	47	44	49	45	43	47	44	41	40
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9	35	25	20	16	33	25	20	16	24	19	16	23	19	16	22	18	15	14
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