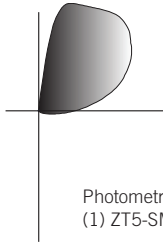
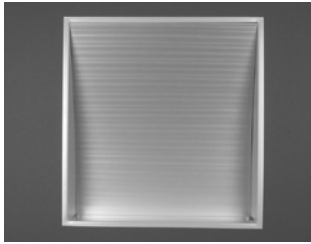


ZENN T5



Photometric Drawing for
(1) ZT5-SMT-24-120

TYPE _____ PROJECT _____



CATALOG NUMBER

FIXTURE		REFLECTOR		LAMPING		VOLTAGE	
ZT5	16" x 16" Zenn	TNB	Ribbed Reflector	24	1 x 24 w CFL	120	120 v
		SMT	Smooth Reflector	26	2 x 26 w CFL	277	277 v

SPECIFICATIONS

Construction. Fixture body is constructed of steel. Curved reflector is constructed of aluminum.

Shielding. Lamp opening is covered with clear glass plate. For curved reflector, Smooth or Tannenbaum® Ribbed must be specified.

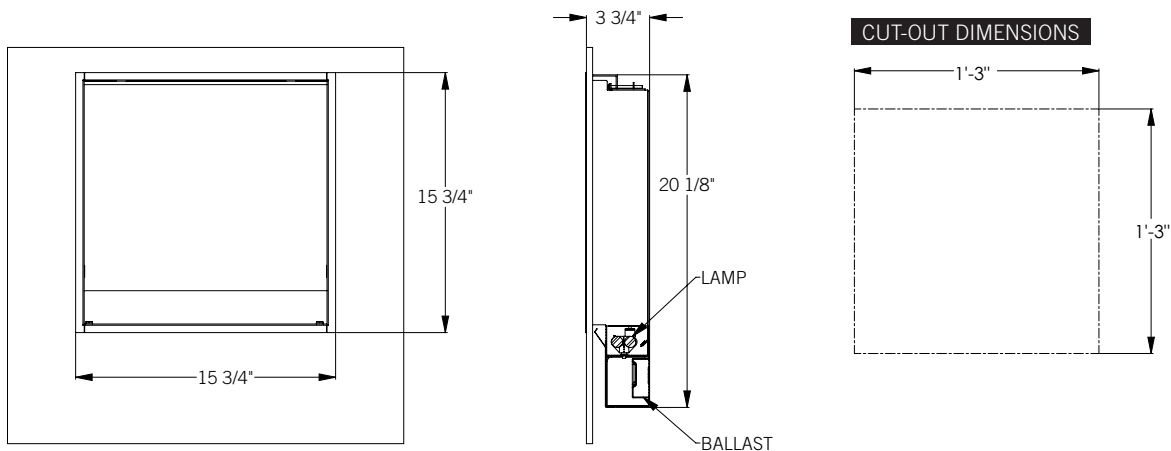
Finish. Fixture body and flange are finished in polyester powdercoat, color RAL 9006. Curved reflector is anodized aluminum.

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

Lamping. Choice of single 24 watt twin-tube compact fluorescent lamp or (2) 26 watt quad tube 4 pin compact fluorescent lamps. Lamp(s) not included.

Mounting. Fixture may be mounted with lamp facing either up or down. Fixture may be mounted in walls up to 1" thick. **ADA COMPLIANT.**

DIMENSIONS & DETAILS



Installation instructions may be found at 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
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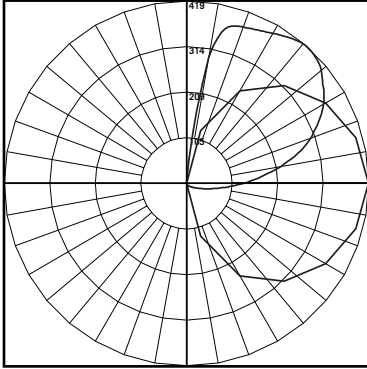


ZENN T5

TYPE _____
PROJECT _____

PHOTOMETRICS

ZT5-SMT-24



CANDELA DISTRIBUTION

	0	45	90
0	1	1	1
5	2	2	1
15	3	3	1
25	4	4	1
35	6	7	1
45	9	10	1
55	15	14	1
65	26	20	1
75	48	30	1
85	95	50	1
95	173	85	1
105	265	135	1
115	336	197	1
125	385	267	1
135	416	309	0
145	409	329	0
155	388	343	0
165	372	289	0
175	8	1	0

LUMINAIRE

Description: Zenn T5 24w
Catalog Number: ZT5-SMT-24-120
Efficiency: 36.1%
Distribution: 9.7% direct, 90.3% indirect

LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	0	135	10
55	0	164	8
65	0	211	7
75	0	298	7
85	0	481	7

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	.84	0	.1
0 - 40	2.07	.1	.3
0 - 60	8.38	.5	1.3
0 - 90	62.9	3.5	9.7
90-120	161.83	9	24.9
90 - 130	259.82	14.4	40
90 - 150	454.78	25.3	40
90 - 180	586.87	32.6	90.3
0 - 180	649.77	36.1	100

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	.02
10-20	.23
20-30	.59
30-40	1.23
40-50	2.33
50-60	3.99
60-70	6.7
70-80	11.45
80-90	36.37
90-100	20.74
100-110	59.46
110-120	81.63
120-130	97.99
130-140	102.51
140-150	92.44
150-160	73.28
160-170	47.39
170-180	11.43

COEFFICIENTS OF UTILIZATION

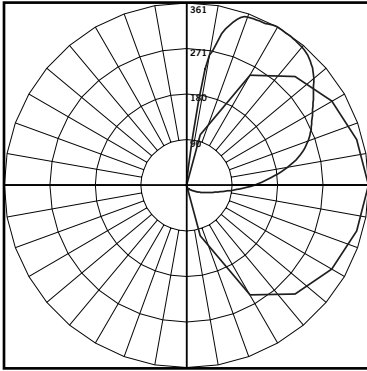
RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	35	35	35	35	31	31	31	31	22	22	22	14	14	14	7	7	7	3
1	31	29	28	26	27	25	24	23	18	17	16	11	11	10	5	4	4	1
2	28	25	23	21	24	22	20	18	15	14	13	9	9	8	4	4	3	1
3	26	22	19	17	22	19	17	15	13	12	11	8	7	7	3	3	3	0
4	23	19	17	14	20	17	14	13	12	10	9	7	6	6	3	2	2	0
5	21	17	14	12	18	15	13	11	11	9	8	6	5	5	3	2	2	0
6	20	15	12	10	17	13	11	9	9	8	7	6	5	4	2	2	1	0
7	18	14	11	9	15	12	10	8	8	7	6	5	4	3	2	2	1	0
8	17	12	10	8	14	11	8	7	8	6	5	5	4	3	2	1	1	0
9	15	11	9	7	13	10	8	6	7	5	4	4	3	3	2	1	1	0
10	14	10	8	6	12	9	7	5	6	5	4	4	3	2	2	1	1	0

ZENN T5

TYPE _____
PROJECT _____

PHOTOMETRICS

ZT5-SMT-26



CANDELA DISTRIBUTION

	0	45	90
0	3	3	3
5	4	4	3
15	6	6	3
25	8	7	3
35	10	9	3
45	14	12	2
55	22	16	2
65	34	21	1
75	54	29	1
85	99	48	1
95	168	78	1
105	233	117	0
115	273	164	0
125	307	219	0
135	347	265	0
145	360	296	0
155	356	312	0
165	327	250	0
175	7	1	0

LUMINAIRE

Description: Zenn T5 26w
Catalog Number: ZT5-SMT-26-120
Efficiency: 16%
Distribution: 12.1% direct, 87.9% indirect

LUMINANCE (Candela/sq meter)

ANGLE	0-DEG	45-DEG	90-DEG
45	0	163	19
55	0	187	17
65	0	222	7
75	0	288	7
85	0	462	7

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0 - 30	1.78	0	.3
0 - 40	3.9	.1	.7
0 - 60	12.49	.3	2.2
0 - 90	69.41	1.9	12.1
90-120	142.11	3.9	24.7
90 - 130	221.9	6.2	38.6
90 - 150	387.43	10.8	38.6
90 - 180	505.81	14.1	87.9
0 - 180	575.22	16	100

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-10	.06
10-20	.5
20-30	1.22
30-40	2.12
40-50	3.34
50-60	5.24
60-70	8.06
70-80	12.35
80-90	36.5
90-100	19.95
100-110	53.46
110-120	68.7
120-130	79.79
130-140	85.05
140-150	80.48
150-160	66.12
160-170	42.31
170-180	9.95

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	16	16	16	16	14	14	14	14	10	10	10	7	7	7	3	3	3	2
1	14	13	12	12	12	11	11	10	8	8	7	5	5	5	2	2	2	1
2	13	11	10	9	11	10	9	8	7	6	6	4	4	4	2	2	2	0
3	11	10	9	8	10	8	7	7	6	5	5	4	3	3	2	1	1	0
4	10	9	7	6	9	7	6	6	5	5	4	3	3	2	1	1	1	0
5	9	8	6	5	8	7	6	5	5	4	3	3	2	2	1	1	1	0
6	9	7	5	5	7	6	5	4	4	3	3	3	2	2	1	1	1	0
7	8	6	5	4	7	5	4	3	4	3	2	2	2	2	1	1	1	0
8	7	5	4	3	6	5	4	3	3	3	2	2	2	1	1	1	1	0
9	7	5	4	3	6	4	3	3	3	2	2	2	2	1	1	1	0	0
10	6	4	3	3	5	4	3	2	3	2	2	2	1	1	1	1	0	0