

# itl boulder

THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.  
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL61284

DATE: 11/11/08

PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

LUMINAIRE: FABRICATED WHITE PAINTED METAL BALLAST HOUSING, FABRICATED WHITE PAINTED METAL REFLECTOR/WALL PLATE, TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER, FABRICATED WHITE PAINTED METAL LENS HOUSING/TRIM, DIFFUSER FROSTED SIDE OUT.

LAMP: ONE 39-WATT SINGLE ENDED TWIN TUBE FLUORESCENT, GE F39BX/SPX35/RS, VERTICAL BASE-DOWN POSITION.

BALLAST: ADVANCE ICN-2S54

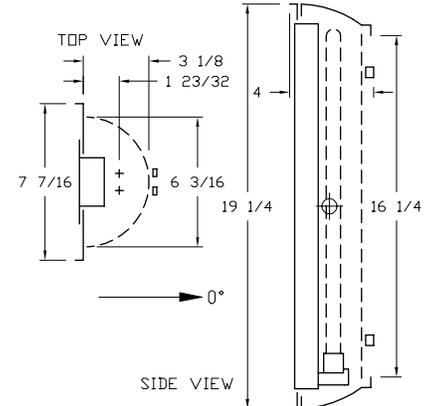
MOUNTING: WALL

TOTAL REFLECTANCE OF PAINT= 86.0 % (BALLAST COVER)

TOTAL REFLECTANCE OF PAINT= 90.3 % (WALL PLATE)

TOTAL INPUT WATTS = 42.1 AT 120.0 VOLTS

REPORT IS BASED ON 2900 LUMENS PER LAMP.



## CANDELA DISTRIBUTION FLUX

	0.0	45.0	90.0	135.0	180.0	FLUX
0	0	0	0	0	0	0
5	13	12	6	1	0	1
15	50	42	23	4	0	7
25	90	73	41	6	0	19
35	129	104	59	8	0	37
45	167	132	76	10	0	58
55	198	157	90	12	0	80
65	225	178	102	13	0	101
75	244	192	111	14	0	116
85	255	200	115	14	0	124
90	254	200	115	14	0	
95	250	197	113	14	0	123
105	238	187	108	14	0	113
115	217	171	98	13	0	96
125	189	149	85	11	0	76
135	155	123	70	9	0	54
145	119	94	53	7	0	33
155	80	64	35	5	0	17
165	41	34	18	3	0	5
175	7	6	3	0	0	0
180	0	0	0	0	0	0

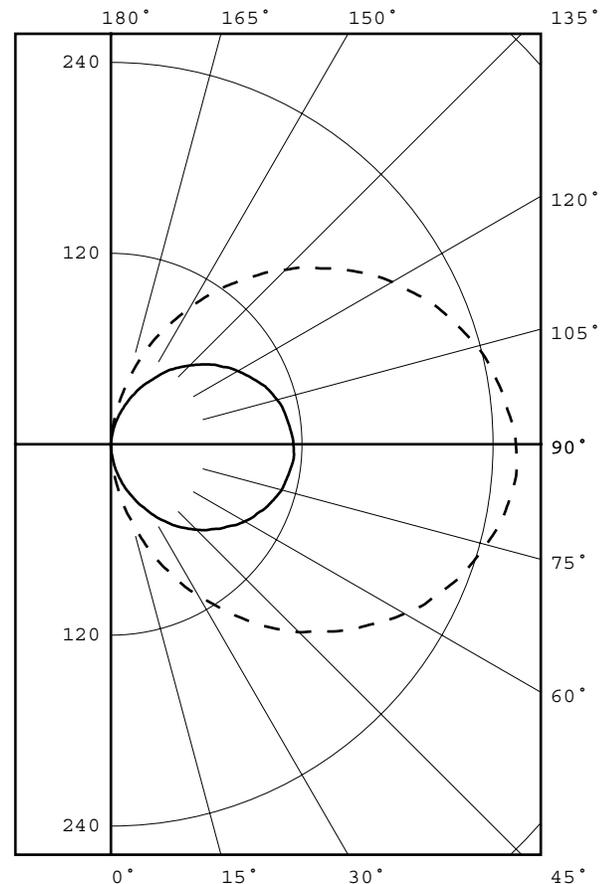
## ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	26	0.9	2.5
0- 40	63	2.2	6.0
0- 60	201	6.9	19.0
0- 90	542	18.7	51.2
90-120	332	11.4	31.3
90-130	408	14.1	38.5
90-150	495	17.1	46.8
90-180	517	17.8	48.8
0-180	1059	36.5	100.0

TOTAL LUMINAIRE EFFICIENCY = 36.5 %

CIE TYPE - DIRECT-INDIRECT

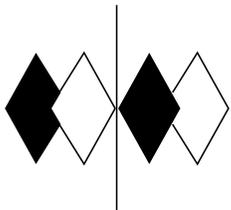
THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.



LEGEND:  
0-deg: - - - - -  
90-deg: \_\_\_\_\_  
180-deg: - . - . - .

Checked B. HYRE

Approved R. BEATTIE



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	0	0	0	0	0	0	0	0	0
5.0	13	9	12	7	6	2	1	0	0
10.0	32	27	27	19	15	7	2	0	0
15.0	50	45	42	31	23	11	4	0	0
20.0	71	63	57	44	32	16	5	0	0
25.0	90	82	73	57	41	20	6	0	0
30.0	110	100	88	70	50	25	7	0	0
35.0	129	119	104	82	59	30	8	0	0
40.0	149	136	118	94	68	34	9	0	0
45.0	167	152	132	106	76	38	10	0	0
50.0	183	168	145	116	83	42	11	0	0
55.0	198	182	157	126	90	46	12	0	0
60.0	213	196	168	136	97	50	13	0	0
65.0	225	208	178	144	102	52	13	0	0
70.0	236	218	186	151	107	55	14	0	0
75.0	244	226	192	156	111	57	14	0	0
80.0	251	231	197	160	113	58	14	0	0
85.0	255	235	200	163	115	59	14	0	0
90.0	254	235	200	163	115	59	14	0	0
95.0	250	231	197	161	113	58	14	0	0
100.0	245	226	193	157	111	57	14	0	0
105.0	238	219	187	152	108	55	14	0	0
110.0	228	210	180	146	104	53	13	0	0
115.0	217	200	171	138	98	50	13	0	0
120.0	204	187	161	130	92	47	12	0	0
125.0	189	173	149	120	85	43	11	0	0
130.0	172	158	137	110	78	39	10	0	0
135.0	155	142	123	98	70	35	9	0	0
140.0	137	125	109	87	62	31	8	0	0
145.0	119	108	94	75	53	26	7	0	0
150.0	99	90	79	62	44	21	6	0	0
155.0	80	72	64	50	35	17	5	0	0
160.0	61	53	49	37	26	12	4	0	0
165.0	41	36	34	25	18	8	3	0	0
170.0	23	19	19	13	10	4	2	0	0
175.0	7	4	6	3	3	1	0	0	0
180.0	0	0	0	0	0	0	0	0	0



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ZONAL LUMEN SUMMARY

0- 5	0.
5- 10	1.
10- 15	2.
15- 20	4.
20- 25	8.
25- 30	11.
30- 35	16.
35- 40	21.
40- 45	26.
45- 50	32.
50- 55	37.
55- 60	43.
60- 65	48.
65- 70	53.
70- 75	56.
75- 80	60.
80- 85	62.
85- 90	63.
90- 95	62.
95-100	60.
100-105	58.
105-110	55.
110-115	51.
115-120	46.
120-125	41.
125-130	35.
130-135	30.
135-140	24.
140-145	19.
145-150	14.
150-155	10.
155-160	6.
160-165	4.
165-170	2.
170-175	0.
175-180	0.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	39	39	39	39	36	36	36	36	31	31	31	26	26	26	21	21	21	19
1	34	31	29	27	31	29	26	25	24	22	21	19	18	17	15	14	13	11
2	30	26	23	20	27	24	21	19	19	17	15	16	14	12	12	11	10	8
3	27	22	19	16	24	20	17	15	16	14	12	13	11	10	10	8	7	6
4	24	19	16	13	22	17	14	12	14	12	10	11	9	8	8	7	6	4
5	22	17	13	10	20	15	12	10	12	10	8	10	8	6	7	6	5	3
6	20	15	11	9	18	13	10	8	11	8	7	9	7	5	7	5	4	3
7	18	13	10	7	17	12	9	7	10	7	6	8	6	4	6	4	3	2
8	17	12	9	6	15	11	8	6	9	6	5	7	5	4	5	4	3	2
9	16	11	8	6	14	10	7	5	8	6	4	6	5	3	5	3	2	1
10	15	10	7	5	13	9	6	4	7	5	4	6	4	3	4	3	2	1

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.