

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: ITL61283
PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

DATE: 11/13/08

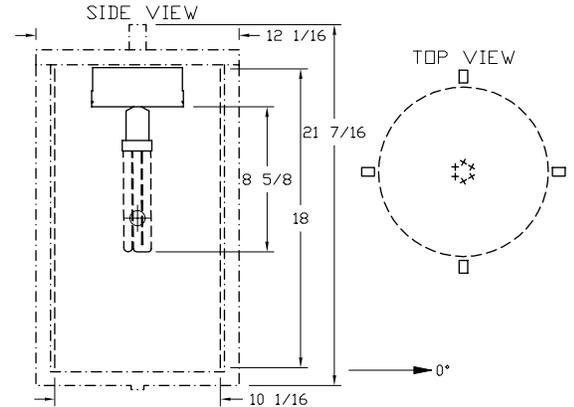
LUMINAIRE: FABRICATED WHITE PAINTED METAL BALLAST HOUSING, TRANSLUCENT WHITE CYLINDRICAL FROSTED PLASTIC DIFFUSER, FABRICATED SEMI-SPECULAR METAL DIFFUSER MOUNTING FRAME AND MOUNTING STEM, DIFFUSER FROSTED SIDE OUT, OPEN TOP AND BOTTOM.

LAMP: ONE 57-WATT TRIPLE TWIN TUBE COMPACT FLUORESCENT, SYLVANIA CF57DT/E/IN/835, VERTICAL BASE-UP POSITION.

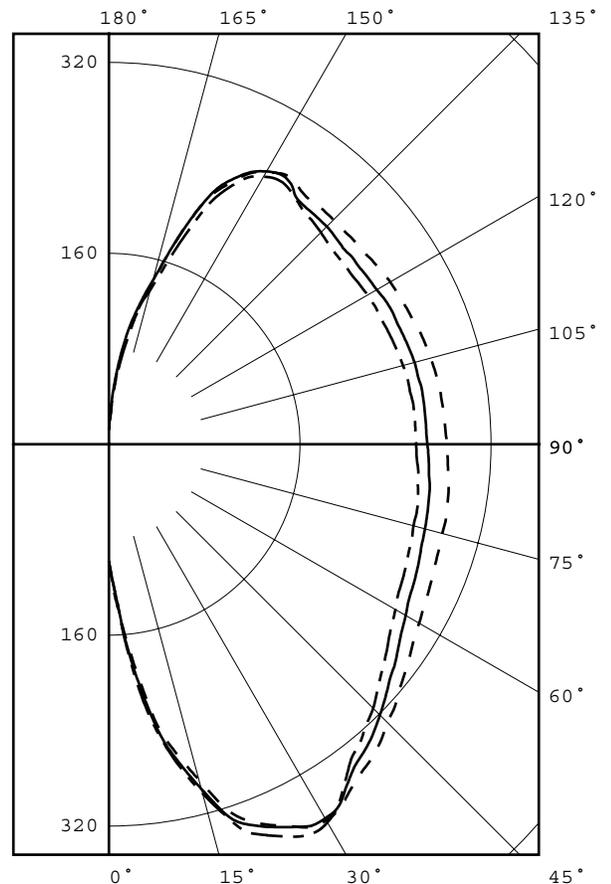
BALLAST: ADVANCE ICF-2S42-M2-LD

MOUNTING: PENDANT

TOTAL INPUT WATTS = 57.1 AT 120.0 VOLTS
REPORT IS BASED ON 4300 LUMENS PER LAMP.



CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
0	98	98	98	98	98	
5	163	181	168	179	171	18
15	291	362	299	373	303	96
25	353	390	354	397	363	180
35	353	329	348	326	345	217
45	330	298	321	285	313	238
55	308	272	296	256	286	253
65	295	253	281	236	271	263
75	289	245	274	228	264	272
85	285	242	269	224	260	276
90	283	240	266	222	258	
95	282	238	266	221	257	272
105	279	236	265	219	255	262
115	274	234	262	218	251	243
125	269	231	257	217	248	217
135	266	234	258	222	251	189
145	270	255	266	251	262	163
155	242	260	245	257	237	117
165	139	136	142	128	134	41
175	43	46	49	46	45	5
180	12	12	12	12	12	



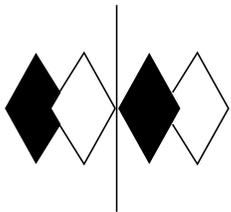
ZONAL LUMEN SUMMARY	ZONE	LUMENS	%LAMP	%FIXT
0- 30		294	6.8	8.8
0- 40		511	11.9	15.4
0- 60		1003	23.3	30.2
0- 90		1814	42.2	54.6
90-120		778	18.1	23.4
90-130		995	23.1	29.9
90-150		1347	31.3	40.5
90-180		1511	35.1	45.4
0-180		3325	77.3	100.0

TOTAL LUMINAIRE EFFICIENCY = 77.3 %

CIE TYPE - DIRECT-INDIRECT
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 3.1 3.0 3.0

LEGEND:
0-deg: - - - - -
90-deg: = = = = =
180-deg: - - - - -

Checked *N. WHITE*
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	98	98	98	98	98	98	98	98	98
5.0	163	148	181	154	168	151	179	154	171
10.0	242	249	283	258	247	251	292	261	250
15.0	291	338	362	343	299	338	373	349	303
20.0	335	396	404	402	339	405	413	411	347
25.0	353	397	390	405	354	406	397	410	363
30.0	364	386	368	390	362	387	368	390	366
35.0	353	355	329	355	348	351	326	354	345
40.0	343	330	310	328	334	319	300	316	327
45.0	330	319	298	314	321	305	285	303	313
50.0	318	306	284	301	307	291	269	288	298
55.0	308	295	272	289	296	279	256	275	286
60.0	300	284	260	278	287	267	243	263	277
65.0	295	276	253	270	281	259	236	255	271
70.0	291	273	249	266	277	255	232	251	267
75.0	289	270	245	263	274	252	228	248	264
80.0	288	269	243	262	272	250	226	246	263
85.0	285	266	242	259	269	247	224	244	260
90.0	283	264	240	257	266	245	222	241	258
95.0	282	263	238	256	266	245	221	241	257
100.0	281	262	237	256	266	244	219	240	256
105.0	279	260	236	255	265	243	219	239	255
110.0	277	258	235	253	263	242	219	238	253
115.0	274	256	234	252	262	241	218	236	251
120.0	272	254	232	250	259	240	217	235	250
125.0	269	252	231	248	257	239	217	234	248
130.0	267	251	231	247	256	239	218	235	248
135.0	266	252	234	248	258	240	222	238	251
140.0	265	251	236	250	258	243	227	241	254
145.0	270	269	255	267	266	261	251	263	262
150.0	263	273	268	277	264	273	265	270	259
155.0	242	260	260	267	245	264	257	256	237
160.0	201	207	211	221	201	213	202	192	186
165.0	139	129	136	148	142	141	128	126	134
170.0	93	86	94	93	100	94	87	79	90
175.0	43	38	46	49	49	48	46	37	45
180.0	12	12	12	12	12	12	12	12	12



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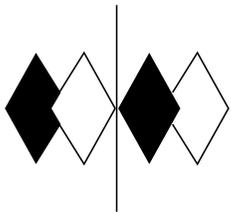
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ZONAL LUMEN SUMMARY

0- 5	3.
5- 10	15.
10- 15	36.
15- 20	61.
20- 25	82.
25- 30	98.
30- 35	107.
35- 40	110.
40- 45	117.
45- 50	122.
50- 55	125.
55- 60	128.
60- 65	130.
65- 70	133.
70- 75	135.
75- 80	137.
80- 85	138.
85- 90	138.
90- 95	137.
95-100	136.
100-105	133.
105-110	129.
110-115	125.
115-120	119.
120-125	112.
125-130	105.
130-135	98.
135-140	91.
140-145	84.
145-150	79.
150-155	67.
155-160	50.
160-165	28.
165-170	13.
170-175	5.
175-180	1.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	84	84	84	84	78	78	78	78	66	66	66	56	56	56	47	47	47	42	
1	73	69	64	61	68	63	60	56	54	51	48	45	43	41	36	35	33	29	
2	66	58	52	47	60	54	49	44	46	41	38	38	35	32	31	28	26	22	
3	59	51	44	38	54	47	41	36	39	35	31	33	29	26	26	23	21	18	
4	54	44	37	32	49	41	34	30	34	29	25	29	25	21	23	20	17	15	
5	49	39	32	27	45	36	30	25	31	25	21	25	21	18	20	17	15	12	
6	45	35	28	23	41	32	26	21	27	22	18	23	19	16	18	15	13	10	
7	42	31	24	20	38	29	23	18	25	20	16	20	16	14	17	14	11	9	
8	39	28	22	17	35	26	20	16	22	17	14	19	15	12	15	12	10	8	
9	36	26	19	15	33	24	18	14	20	16	12	17	13	11	14	11	9	7	
10	33	23	17	13	31	22	16	13	19	14	11	16	12	9	13	10	8	6	

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.