

# 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: ITL61277

DATE: 11/12/08

PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

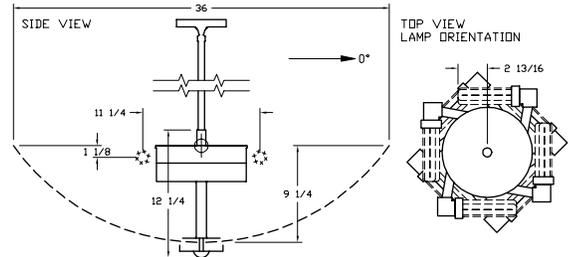
LUMINAIRE: FABRICATED WHITE PAINTED METAL BALLAST HOUSING, EIGHT FORMED WHITE PAINTED METAL SOCKET MOUNTING BRACKETS, TRANSLUCENT WHITE SEMI-HEMISPHERICAL FROSTED PLASTIC DIFFUSER, FABRICATED WHITE PAINTED METAL LENS MOUNTING ASSEMBLY, FABRICATED WHITE PAINTED METAL MOUNTING STEM, DIFFUSER FROSTED SIDE OUT, OPEN TOP.

LAMP: EIGHT 42-WATT TRIPLE TWIN TUBE COMPACT FLUORESCENTS, SYLVANIA CF42DT/E/IN/827/ECO, HORIZONTAL POSITION.

BALLASTS: FOUR ADVANCE ICF-2S42-M2-LD  
MOUNTING: PENDANT

TOTAL REFLECTANCE OF PAINT = 85.3 %  
TOTAL INPUT WATTS = 425.0 AT 120.0 VOLTS  
REPORT IS BASED ON 3200 LUMENS PER LAMP.

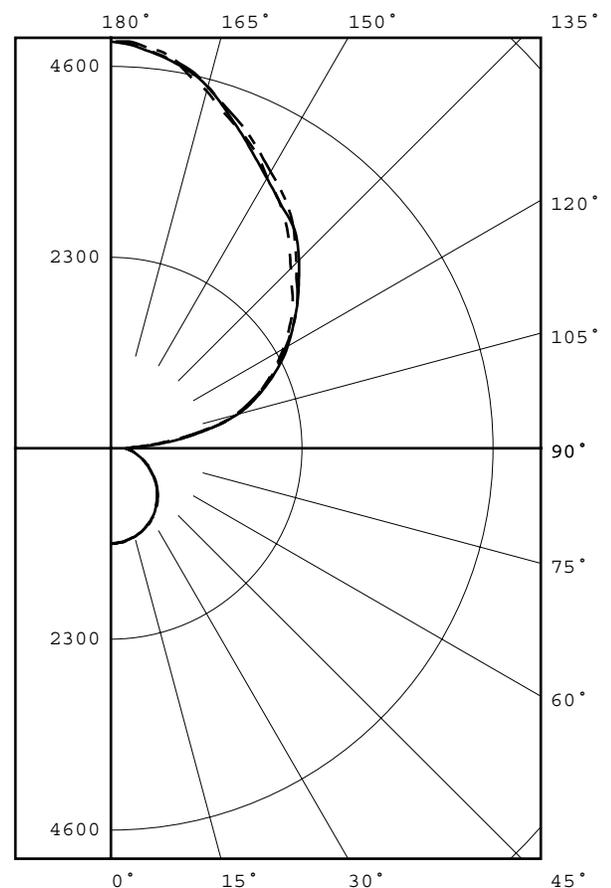
\*\* (explanation follows) \*\*



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1148	1148	1148	1148	1148
5	1143	1141	1140	1138	1137
15	1105	1106	1103	1106	1103
25	1024	1028	1027	1031	1031
35	920	924	923	929	933
45	785	791	788	797	798
55	633	639	637	644	649
65	483	485	485	491	496
75	339	342	341	347	347
85	222	227	227	229	229
90	189	180	186	176	178
95	501	576	567	572	503
105	1587	1620	1573	1585	1549
115	2139	2196	2189	2213	2166
125	2639	2711	2696	2756	2701
135	3062	3111	3202	3171	3158
145	3566	3525	3575	3611	3657
155	4014	3957	3976	4035	4067
165	4455	4452	4505	4505	4512
175	4824	4801	4814	4829	4853
180	4900	4900	4900	4900	4900

### FLUX



#### LEGEND:

0-deg: - - - - -  
45-deg: \_\_\_\_\_  
90-deg: - . - . - .

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	896	3.5	4.8
0- 40	1475	5.8	7.8
0- 60	2660	10.4	14.1
0- 90	3753	14.7	19.9
90-120	4425	17.3	23.5
90-130	6847	26.7	36.3
90-150	11528	45.0	61.2
90-180	15095	59.0	80.1
0-180	18848	73.6	100.0

TOTAL LUMINAIRE EFFICIENCY = 73.6 %

CIE TYPE - SEMI-INDIRECT

Checked B. HYRE

Approved R. BEATTIE



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	0.0	22.5	45.0	67.5	90.0	ZONAL LUMEN	SUMMARY
0.0	1148	1148	1148	1148	1148	0- 5	27.
5.0	1143	1141	1140	1138	1137	5- 10	81.
10.0	1128	1126	1125	1126	1123	10- 15	132.
15.0	1105	1106	1103	1106	1103	15- 20	179.
20.0	1071	1072	1071	1074	1073	20- 25	221.
25.0	1024	1028	1027	1031	1031	25- 30	255.
30.0	976	977	978	984	983	30- 35	281.
35.0	920	924	923	929	933	35- 40	298.
40.0	855	858	857	868	869	40- 45	306.
45.0	785	791	788	797	798	45- 50	305.
50.0	709	715	716	723	723	50- 55	295.
55.0	633	639	637	644	649	55- 60	278.
60.0	556	561	558	565	569	60- 65	254.
65.0	483	485	485	491	496	65- 70	226.
70.0	403	408	409	415	418	70- 75	199.
75.0	339	342	341	347	347	75- 80	167.
80.0	279	281	281	284	283	80- 85	139.
85.0	222	227	227	229	229	85- 90	108.
90.0	189	180	186	176	178	90- 95	168.
95.0	501	576	567	572	503	95-100	444.
100.0	1059	1124	1087	1115	1031	100-105	729.
105.0	1587	1620	1573	1585	1549	105-110	915.
110.0	1878	1910	1900	1917	1869	110-115	1036.
115.0	2139	2196	2189	2213	2166	115-120	1132.
120.0	2395	2471	2458	2503	2427	120-125	1196.
125.0	2639	2711	2696	2756	2701	125-130	1227.
130.0	2856	2899	2947	2948	2932	130-135	1222.
135.0	3062	3111	3202	3171	3158	135-140	1211.
140.0	3325	3352	3437	3418	3428	140-145	1164.
145.0	3566	3525	3575	3611	3657	145-150	1082.
150.0	3765	3724	3755	3818	3845	150-155	983.
155.0	4014	3957	3976	4035	4067	155-160	864.
160.0	4208	4195	4232	4254	4279	160-165	717.
165.0	4455	4452	4505	4505	4512	165-170	545.
170.0	4691	4664	4690	4709	4714	170-175	341.
175.0	4824	4801	4814	4829	4853	175-180	117.
180.0	4900	4900	4900	4900	4900		



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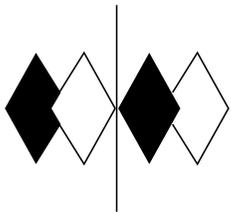
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	74	74	74	65	65	65	65	49	49	49	34	34	34	21	21	21	15	
1	67	63	61	58	59	56	54	52	42	41	39	30	29	28	18	17	17	12	
2	60	55	51	47	53	49	45	42	37	34	32	26	24	23	16	15	14	9	
3	55	48	43	39	48	43	38	35	32	29	27	23	21	19	14	13	12	8	
4	50	43	37	33	44	38	33	29	29	25	23	20	18	16	12	11	10	7	
5	46	38	32	28	40	33	29	25	25	22	19	18	16	14	11	10	9	6	
6	42	34	28	24	37	30	25	21	23	19	17	16	14	12	10	8	7	5	
7	39	30	25	21	34	27	22	19	20	17	14	14	12	10	9	8	7	4	
8	36	27	22	18	32	24	20	16	19	15	13	13	11	9	8	7	6	4	
9	33	25	19	16	29	22	17	14	17	14	11	12	10	8	7	6	5	3	
10	31	23	17	14	27	20	16	13	15	12	10	11	9	7	7	6	5	3	

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.



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#### ADDENDUM

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The compact fluorescent lamps of the type used in this report may require special attention in photometry and luminaire application. Specifically, the lamps may generate lower flux output when operated in the horizontal position than when operated in the vertical base-up position. Unfortunately, at the time of this report, only the vertical flux output (lumen) rating is available from the lamp manufacturer. It is critical to note that if the lamp produces less lumens when in a horizontal position than when it is in a vertical position, the horizontal lamp calibration will yield higher luminaire candela and efficiency than a vertical lamp calibration. When applying the vertical lamp lumen rating to a report for a luminaire with a horizontal lamp(s) and using a horizontal lamp calibration, the report will show higher candela values than what the luminaire actually produced (since a horizontal lamp produces lower flux). For a report which was generated using a horizontal lamp calibration, any application calculations should use the actual flux output (lumens) from a horizontal lamp -- at this time, no such published lumen figures are available. The published lamp lumen rating given on this report is for a vertical base-up lamp. The lamp calibration for this report was performed with the lamp(s) in the same orientation as when the lamp(s) is/are in the luminaire.

CFL.DIS