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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: ITL61319

DATE: 11/21/08

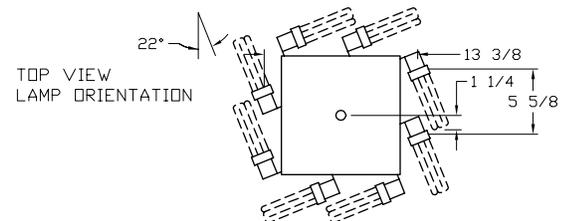
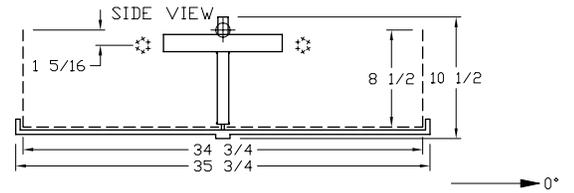
PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

LUMINAIRE: FABRICATED WHITE PAINTED METAL BALLAST HOUSING, EIGHT FORMED WHITE PAINTED METAL SOCKET MOUNTING BRACKETS, TRANSLUCENT WHITE CYLINDRICAL FROSTED PLASTIC DIFFUSER WITH TRANSLUCENT WHITE FLAT FROSTED PLASTIC BOTTOM, FABRICATED WHITE PAINTED METAL DIFFUSER SUPPORT ASSEMBLY/CROSSPIECE, 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.

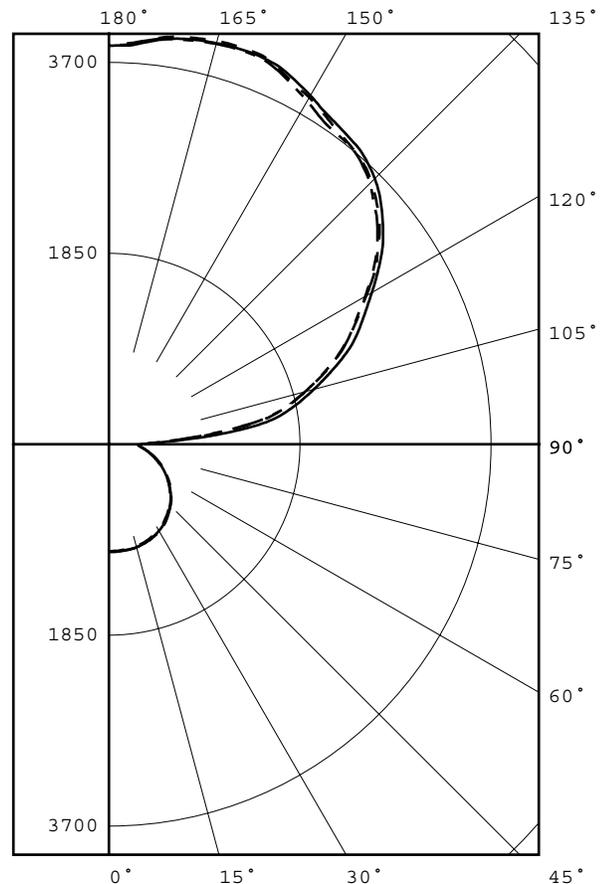
BALLASTS: FOUR UNIVERSAL C242UNVSE MOUNTING: PENDANT

TOTAL REFLECTANCE OF PAINT = 87.0 %
TOTAL INPUT WATTS = 403.5 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	FLUX
0	1042	1042	1042	1042	1042	
5	1036	1042	1043	1043	1042	99
15	1024	1032	1034	1035	1034	292
25	986	995	998	1000	999	461
35	924	934	934	939	940	585
45	832	838	837	843	843	649
55	714	722	719	725	726	646
65	580	584	583	590	595	582
75	443	448	445	450	451	472
85	308	314	311	315	312	346
90	295	284	296	285	288	
95	903	1041	1042	977	865	1063
105	1968	1998	2054	2002	1966	2120
115	2597	2641	2681	2653	2592	2616
125	3156	3225	3225	3225	3171	2868
135	3595	3539	3640	3545	3576	2764
145	3778	3759	3810	3755	3739	2369
155	3976	3955	4001	3964	3957	1834
165	4045	4012	4023	4017	4016	1140
175	3924	3900	3907	3913	3924	376
180	3862	3862	3862	3862	3862	



LEGEND:
0-deg: - - - - -
45-deg: = = = = =
90-deg: - - - - -

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	852	3.3	4.0
0- 40	1437	5.6	6.8
0- 60	2732	10.7	12.8
0- 90	4132	16.1	19.4
90-120	5799	22.7	27.3
90-130	8666	33.9	40.7
90-150	13799	53.9	64.8
90-180	17149	67.0	80.6
0-180	21280	83.1	100.0

TOTAL LUMINAIRE EFFICIENCY = 83.1 %

CIE TYPE - SEMI-INDIRECT

Checked *N.WHITE*
Approved *R.BEATTIE*



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CANDELA DISTRIBUTION

CANDELA DISTRIBUTION						ZONAL LUMEN SUMMARY	
	0.0	22.5	45.0	67.5	90.0		
0.0	1042	1042	1042	1042	1042	0- 5	25.
5.0	1036	1042	1043	1043	1042	5- 10	74.
10.0	1032	1039	1040	1040	1038	10- 15	123.
15.0	1024	1032	1034	1035	1034	15- 20	169.
20.0	1009	1017	1020	1021	1020	20- 25	212.
25.0	986	995	998	1000	999	25- 30	249.
30.0	957	969	968	974	972	30- 35	281.
35.0	924	934	934	939	940	35- 40	305.
40.0	880	890	888	894	893	40- 45	320.
45.0	832	838	837	843	843	45- 50	328.
50.0	776	784	782	788	788	50- 55	328.
55.0	714	722	719	725	726	55- 60	318.
60.0	647	655	653	658	660	60- 65	302.
65.0	580	584	583	590	595	65- 70	279.
70.0	508	517	515	520	522	70- 75	252.
75.0	443	448	445	450	451	75- 80	220.
80.0	374	379	375	378	379	80- 85	187.
85.0	308	314	311	315	312	85- 90	159.
90.0	295	284	296	285	288	90- 95	307.
95.0	903	1041	1042	977	865	95-100	756.
100.0	1610	1669	1719	1658	1598	100-105	987.
105.0	1968	1998	2054	2002	1966	105-110	1134.
110.0	2307	2318	2392	2328	2299	110-115	1264.
115.0	2597	2641	2681	2653	2592	115-120	1351.
120.0	2867	2954	2940	2943	2877	120-125	1421.
125.0	3156	3225	3225	3225	3171	125-130	1447.
130.0	3412	3425	3456	3425	3389	130-135	1418.
135.0	3595	3539	3640	3545	3576	135-140	1346.
140.0	3706	3639	3753	3646	3701	140-145	1244.
145.0	3778	3759	3810	3755	3739	145-150	1125.
150.0	3880	3872	3902	3861	3839	150-155	993.
155.0	3976	3955	4001	3964	3957	155-160	842.
160.0	4053	4021	4036	4026	4026	160-165	664.
165.0	4045	4012	4023	4017	4016	165-170	475.
170.0	4009	3978	3990	3987	3982	170-175	283.
175.0	3924	3900	3907	3913	3924	175-180	92.
180.0	3862	3862	3862	3862	3862		



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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	83	83	83	83	73	73	73	73	55	55	55	39	39	39	23	23	23	16	
1	75	71	68	65	66	63	60	58	47	45	44	33	32	31	20	19	18	12	
2	68	62	57	52	60	55	50	47	41	38	36	28	27	25	17	16	15	10	
3	62	54	48	43	54	48	43	39	36	32	30	25	23	21	15	13	12	8	
4	56	48	41	36	49	42	37	32	32	28	25	22	20	18	13	12	11	7	
5	51	42	36	31	45	37	32	27	28	24	21	20	17	15	12	10	9	6	
6	47	38	31	26	41	33	28	24	25	21	18	18	15	13	10	9	8	5	
7	44	34	27	23	38	30	24	20	23	19	16	16	13	11	9	8	7	4	
8	40	30	24	20	35	27	22	18	20	17	14	14	12	10	9	7	6	4	
9	37	28	22	17	33	24	19	16	19	15	12	13	11	9	8	6	5	3	
10	35	25	19	15	31	22	17	14	17	13	11	12	10	8	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

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