

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: ITL61275

DATE: 11/05/08

PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

LUMINAIRE: FABRICATED WHITE PAINTED METAL BALLAST HOUSING, FOUR 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.

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

BALLASTS: TWO ADVANCE ICF-2S42-M2-LD

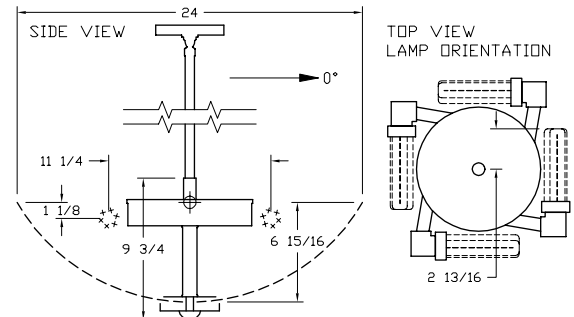
MOUNTING: PENDANT

TOTAL REFLECTANCE OF PAINT = 87.8 %

TOTAL INPUT WATTS = 211.3 AT 120.0 VOLTS

REPORT IS BASED ON 3200 LUMENS PER LAMP.

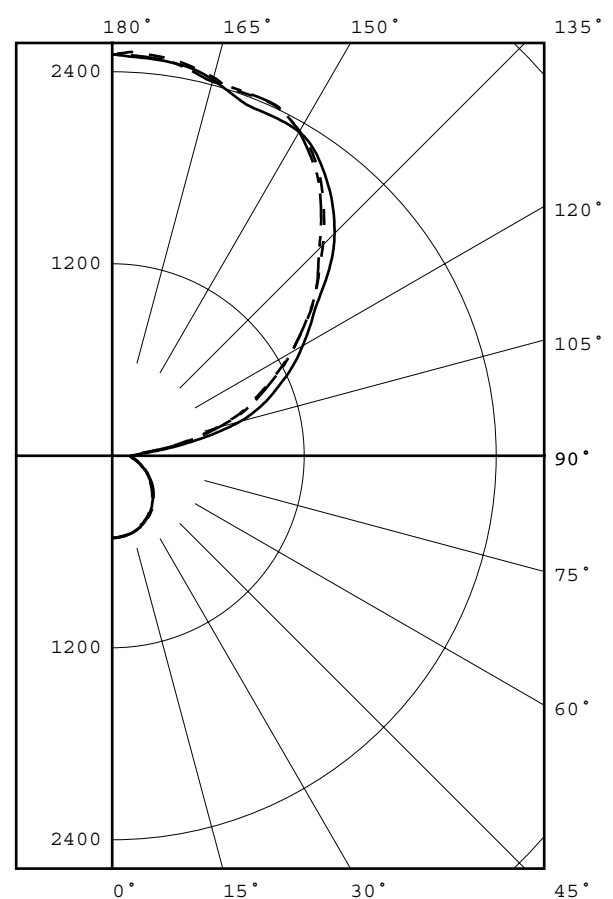
** (explanation follows) **



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	513	513	513	513	513
5	509	511	511	512	511
15	492	495	496	499	497
25	460	465	465	470	468
35	414	419	418	426	425
45	353	361	358	369	366
55	290	297	295	304	304
65	225	233	231	239	238
75	170	177	176	183	180
85	120	127	127	131	127
90	109	106	115	111	110
95	185	227	217	233	189
105	668	786	829	794	690
115	1086	1181	1212	1186	1100
125	1489	1544	1535	1551	1484
135	1863	1877	1965	1883	1830
145	2226	2185	2256	2213	2205
155	2413	2385	2347	2420	2418
165	2449	2438	2433	2422	2421
175	2518	2498	2494	2498	2501
180	2508	2508	2508	2508	2508

FLUX



LEGEND:

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

ZONAL LUMEN SUMMARY

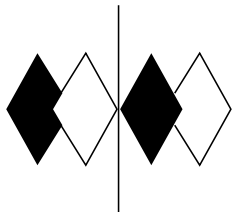
ZONE	LUMENS	%LAMP	%FIXT
0- 30	404	3.2	3.9
0- 40	667	5.2	6.5
0- 60	1215	9.5	11.9
0- 90	1773	13.9	17.3
90-120	2224	17.4	21.7
90-130	3593	28.1	35.1
90-150	6445	50.3	62.9
90-180	8474	66.2	82.7
0-180	10247	80.1	100.0

TOTAL LUMINAIRE EFFICIENCY = 80.1 %

CIE TYPE - SEMI-INDIRECT

Checked N. WHITE

Approved R. BEATTIE



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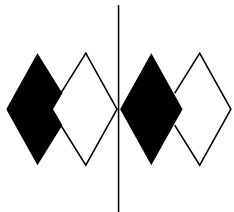
DATE: 11/05/08

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	513	513	513	513	513
5.0	509	511	511	512	511
10.0	502	504	505	507	506
15.0	492	495	496	499	497
20.0	478	482	482	487	484
25.0	460	465	465	470	468
30.0	439	444	443	450	448
35.0	414	419	418	426	425
40.0	384	391	389	399	397
45.0	353	361	358	369	366
50.0	322	329	327	337	336
55.0	290	297	295	304	304
60.0	257	264	262	272	270
65.0	225	233	231	239	238
70.0	197	204	203	210	208
75.0	170	177	176	183	180
80.0	144	151	151	156	152
85.0	120	127	127	131	127
90.0	109	106	115	111	110
95.0	185	227	217	233	189
100.0	420	508	502	506	434
105.0	668	786	829	794	690
110.0	901	1002	1038	1010	920
115.0	1086	1181	1212	1186	1100
120.0	1292	1364	1374	1365	1294
125.0	1489	1544	1535	1551	1484
130.0	1674	1707	1756	1704	1671
135.0	1863	1877	1965	1883	1830
140.0	2053	2053	2126	2073	2029
145.0	2226	2185	2256	2213	2205
150.0	2342	2311	2337	2344	2338
155.0	2413	2385	2347	2420	2418
160.0	2413	2401	2359	2422	2420
165.0	2449	2438	2433	2422	2421
170.0	2496	2479	2480	2479	2475
175.0	2518	2498	2494	2498	2501
180.0	2508	2508	2508	2508	2508

ZONAL LUMEN SUMMARY

0- 5	12.
5- 10	36.
10- 15	59.
15- 20	81.
20- 25	100.
25- 30	115.
30- 35	128.
35- 40	136.
40- 45	140.
45- 50	140.
50- 55	137.
55- 60	130.
60- 65	121.
65- 70	111.
70- 75	100.
75- 80	88.
80- 85	75.
85- 90	63.
90- 95	79.
95-100	182.
100-105	337.
105-110	468.
110-115	544.
115-120	613.
120-125	664.
125-130	705.
130-135	727.
135-140	735.
140-145	718.
145-150	671.
150-155	600.
155-160	503.
160-165	397.
165-170	292.
170-175	178.
175-180	60.



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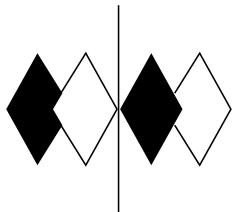
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	80	80	80	80	70	70	70	70	52	52	52	36	36	36	21	21	21	14
1	72	68	65	63	63	60	58	55	45	43	42	31	30	29	18	17	17	11
2	65	59	55	51	57	52	48	45	39	36	34	27	25	24	15	14	14	9
3	59	52	46	42	52	46	41	37	34	31	28	23	21	20	13	12	11	7
4	54	46	40	35	47	40	35	31	30	27	24	21	19	17	12	11	10	6
5	50	41	34	30	43	36	31	27	27	23	20	18	16	14	11	9	8	5
6	45	36	30	26	40	32	27	23	24	20	18	17	14	12	10	8	7	4
7	42	32	26	22	37	29	24	20	22	18	15	15	13	11	9	7	6	4
8	39	29	23	19	34	26	21	17	20	16	13	14	11	9	8	7	6	3
9	36	27	21	17	31	24	19	15	18	14	12	12	10	8	7	6	5	3
10	33	24	19	15	29	21	17	13	16	13	10	11	9	7	7	5	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