

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: ITL61419

DATE: 12/11/08

PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

LUMINAIRE: FORMED WHITE PAINTED METAL HOUSING, FROSTED PLASTIC DIFFUSER WITH TRANSLUCENT WHITE FINISHED INTERIOR, FORMED WHITE PAINTED METAL DIFFUSER MOUNTING RINGS AND FOUR VERTICAL SUPPORT RODS. BALLASTS ARE EXPOSED AND OFFSET TO EACH SIDE OF CENTER IN OPTICAL COMPARTMENT.

LAMPS: FOUR 26-WATT DOUBLE TWIN TUBE COMPACT FLUORESCENTS, SYLVANIA CF26DD/E/830. LAMPS HORIZONTAL WITH TUBES CANTED 45-DEGREES.

BALLASTS: TWO ADVANCE ICF-2S26-M1-BS

TOTAL INPUT WATTS = 90.6 AT 120.0 VOLTS

MOUNTING: SURFACE

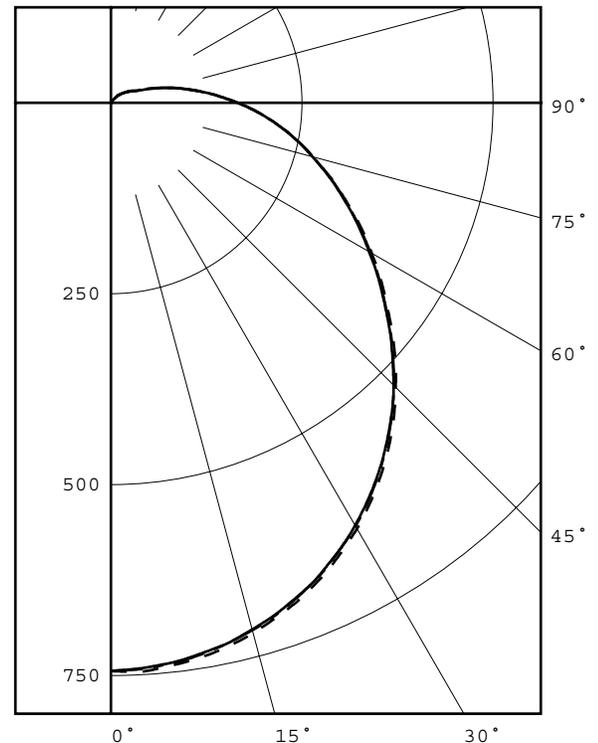
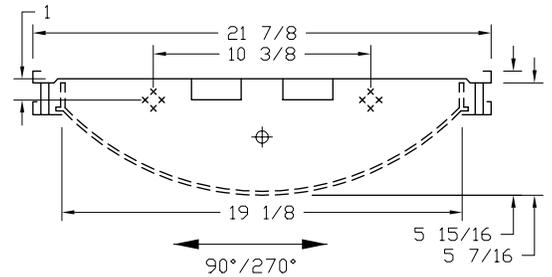
TOTAL REFLECTANCE OF PAINT = 84.3 %

REPORT IS BASED ON 1710 LUMENS PER LAMP.

** (explanation follows) **

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	744	744	744	744	744	
5	743	741	739	740	740	70
15	719	716	714	716	715	202
25	674	671	669	671	670	310
35	609	606	604	606	605	379
45	527	525	523	525	524	405
55	437	435	433	435	434	390
65	353	351	350	351	351	348
75	274	274	273	275	274	290
85	202	203	202	203	202	221
90	166	166	166	167	166	
95	131	131	132	132	132	144
105	76	75	75	76	77	81
115	38	38	37	38	38	39
125	25	24	24	24	24	22
135	15	15	15	14	14	11
145	10	10	10	10	10	6
155	6	6	6	6	6	3
165	2	2	2	2	2	1
175	1	1	1	1	1	0
180	0	0	0	0	0	



LEGEND:
0-deg: - - - - -
45-deg: _____
90-deg:

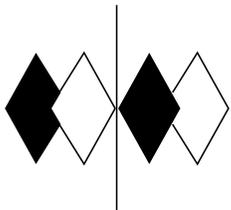
ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	582	8.5	19.9
0- 40	962	14.1	32.9
0- 60	1757	25.7	60.1
0- 90	2616	38.2	89.5
90-120	265	3.9	9.1
90-130	287	4.2	9.8
90-150	304	4.4	10.4
90-180	308	4.5	10.5
0-180	2924	42.7	100.0

TOTAL LUMINAIRE EFFICIENCY = 42.7 %

CIE TYPE - SEMI-DIRECT
PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 1.3 1.3

Checked N. WHITE
Approved R. BEATTIE



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

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

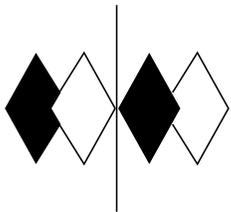
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL61419
 PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

DATE: 12/11/08

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	ZONAL LUMEN	SUMMARY
0.0	744	744	744	744	744	0- 5	18.
5.0	743	741	739	740	740	5- 10	53.
10.0	734	731	729	731	730	10- 15	86.
15.0	719	716	714	716	715	15- 20	116.
20.0	699	696	694	696	695	20- 25	144.
25.0	674	671	669	671	670	25- 30	166.
30.0	644	641	639	641	640	30- 35	184.
35.0	609	606	604	606	605	35- 40	196.
40.0	570	568	565	567	566	40- 45	202.
45.0	527	525	523	525	524	45- 50	203.
50.0	482	480	478	479	479	50- 55	199.
55.0	437	435	433	435	434	55- 60	191.
60.0	394	392	390	392	392	60- 65	181.
65.0	353	351	350	351	351	65- 70	168.
70.0	313	312	311	312	312	70- 75	153.
75.0	274	274	273	275	274	75- 80	137.
80.0	238	238	238	239	238	80- 85	120.
85.0	202	203	202	203	202	85- 90	101.
90.0	166	166	166	167	166	90- 95	81.
95.0	131	131	132	132	132	95-100	63.
100.0	102	102	101	103	102	100-105	47.
105.0	76	75	75	76	77	105-110	34.
110.0	55	54	53	54	55	110-115	23.
115.0	38	38	37	38	38	115-120	17.
120.0	31	31	30	31	31	120-125	13.
125.0	25	24	24	24	24	125-130	9.
130.0	19	19	19	19	19	130-135	6.
135.0	15	15	15	14	14	135-140	5.
140.0	12	12	12	12	12	140-145	4.
145.0	10	10	10	10	10	145-150	3.
150.0	8	8	8	8	8	150-155	2.
155.0	6	6	6	6	6	155-160	1.
160.0	4	4	4	4	4	160-165	0.
165.0	2	2	2	2	2	165-170	0.
170.0	1	1	1	1	1	170-175	0.
175.0	1	1	1	1	1	175-180	0.
180.0	0	0	0	0	0		



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: ITL61419

DATE: 12/11/08

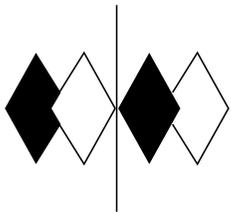
PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	50	50	50	50	48	48	48	48	45	45	45	42	42	42	39	39	39	38
1	44	42	39	37	42	40	38	36	37	36	34	35	34	32	33	32	31	29
2	40	36	32	29	38	34	31	29	32	30	27	30	28	26	28	26	25	24
3	36	31	27	24	34	30	26	23	28	25	22	26	24	21	24	22	21	19
4	33	27	23	20	31	26	23	20	25	21	19	23	20	18	22	19	17	16
5	30	24	20	17	29	23	20	17	22	19	16	21	18	16	19	17	15	14
6	28	22	18	15	27	21	17	15	20	17	14	19	16	14	18	15	13	12
7	26	20	16	13	25	19	15	13	18	15	12	17	14	12	16	13	12	11
8	24	18	14	11	23	17	14	11	16	13	11	16	13	11	15	12	10	9
9	22	16	13	10	21	16	12	10	15	12	10	14	12	10	14	11	9	8
10	21	15	12	9	20	15	11	9	14	11	9	13	11	9	13	10	8	8

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.



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: ITL61419
PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

DATE: 12/11/08

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