

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: ITL61322

DATE: 11/18/08

PREPARED FOR: SCOTT ARCHITECTURAL LIGHTING

LUMINAIRE: FABRICATED WHITE PAINTED METAL MOUNTING PLATE/REFLECTOR,
TRANSLUCENT WHITE FROSTED PLASTIC DIFFUSER IN FABRICATED WHITE
PAINTED METAL FRAME/TRIM, OPEN TOP AND BOTTOM,
DIFFUSER FROSTED SIDE OUT. BALLAST
IS EXPOSED AND CENTERED AT BOTTOM
OF OPTICAL COMPARTMENT.

LAMPS: TWO 26-WATT DOUBLE TWIN TUBE COMPACT
FLUORESCENTS, SYLVANIA CF26DD/E/830,
VERTICAL BASE-DOWN POSITION.

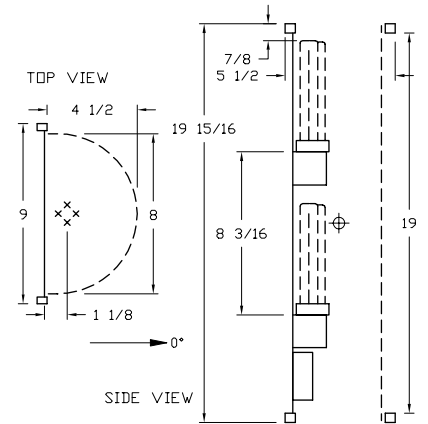
BALLAST: ADVANCE ICF-2S26-M1-BS

MOUNTING: WALL

TOTAL REFLECTANCE OF PAINT = 84.7 %

TOTAL INPUT WATTS = 46.9 AT 120.0 VOLTS

REPORT IS BASED ON 1710 LUMENS PER LAMP.



CANDELA DISTRIBUTION

FLUX

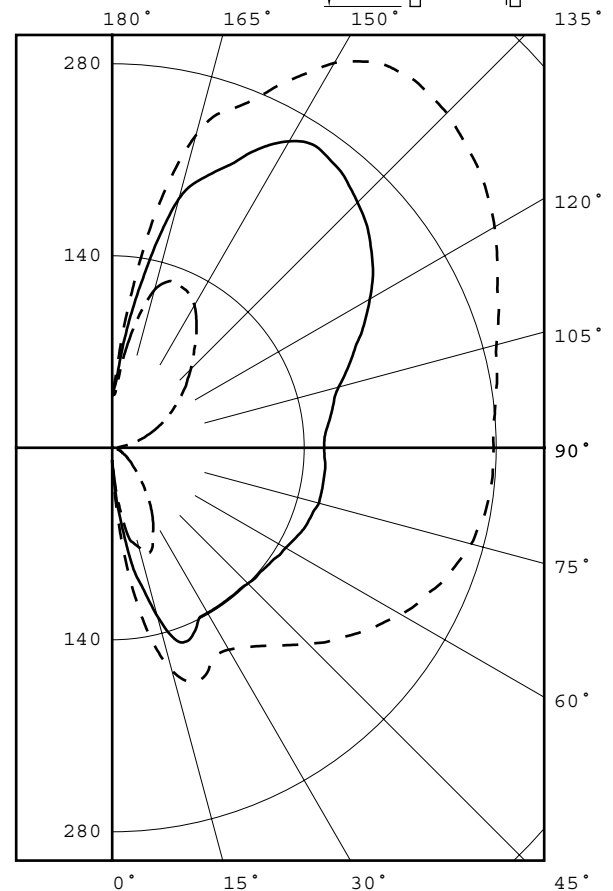
	0.0	45.0	90.0	135.0	180.0	
0	9	9	9	9	9	5
5	57	56	39	30	30	34
15	168	161	127	85	75	61
25	172	170	145	93	70	78
35	177	172	139	75	47	97
45	202	190	140	57	26	117
55	230	212	143	47	14	137
65	253	231	150	43	8	152
75	271	245	156	40	4	159
85	278	252	156	38	1	161
90	278	251	155	37	0	170
95	280	253	157	40	3	180
105	290	263	171	55	19	184
115	310	282	201	72	38	173
125	332	303	232	92	59	146
135	345	315	253	112	81	101
145	342	312	265	132	107	49
155	293	274	237	148	127	7
165	236	224	188	118	119	
175	80	75	63	52	50	
180	38	38	38	38	38	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	101	2.9	5.0
0- 40	179	5.2	8.9
0- 60	392	11.5	19.5
0- 90	839	24.5	41.7
90-120	512	15.0	25.4
90-130	696	20.3	34.6
90-150	1015	29.7	50.5
90-180	1172	34.3	58.3
0-180	2011	58.8	100.0

TOTAL LUMINAIRE EFFICIENCY = 58.8 %

CIE TYPE - DIRECT-INDIRECT

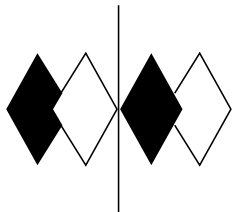


LEGEND:

0-deg: - - - - -
90-deg: _____
180-deg: - - - - -

Checked N. WHITE

Approved R. BEATTIE



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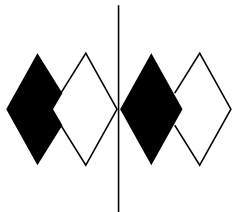
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	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	9	9	9	9	9	9	9	9	9
5.0	57	47	56	40	39	27	30	24	30
10.0	126	117	118	100	90	57	60	56	64
15.0	168	166	161	144	127	90	85	75	75
20.0	181	184	176	174	151	111	95	83	81
25.0	172	178	170	166	145	116	93	78	70
30.0	170	172	168	155	139	115	86	65	59
35.0	177	175	172	160	139	109	75	53	47
40.0	188	185	180	164	139	103	65	41	35
45.0	202	198	190	170	140	98	57	30	26
50.0	216	211	201	176	141	94	51	22	19
55.0	230	224	212	182	143	93	47	17	14
60.0	243	236	222	189	146	92	44	13	11
65.0	253	247	231	195	150	92	43	10	8
70.0	263	256	239	201	153	93	41	8	6
75.0	271	264	245	206	156	93	40	6	4
80.0	276	269	250	210	156	93	39	4	3
85.0	278	272	252	211	156	93	38	2	1
90.0	278	271	251	210	155	92	37	1	0
95.0	280	274	253	213	157	95	40	5	3
100.0	285	279	258	218	163	102	47	13	11
105.0	290	285	263	225	171	109	55	21	19
110.0	300	294	272	237	185	118	63	30	28
115.0	310	305	282	252	201	128	72	40	38
120.0	322	317	293	267	217	140	81	51	48
125.0	332	327	303	281	232	151	92	62	59
130.0	339	336	310	292	244	161	102	73	70
135.0	345	341	315	300	253	170	112	85	81
140.0	347	342	316	305	261	179	121	98	93
145.0	342	335	312	304	265	188	132	112	107
150.0	324	317	299	288	258	195	142	123	120
155.0	293	288	274	258	237	192	148	131	127
160.0	264	264	252	237	213	172	142	131	129
165.0	236	229	224	206	188	137	118	114	119
170.0	166	153	152	126	122	93	85	81	88
175.0	80	70	75	59	63	53	52	46	50
180.0	38	38	38	38	38	38	38	38	38



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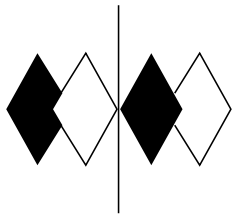
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ZONAL LUMEN SUMMARY

0- 5	0.
5- 10	4.
10- 15	13.
15- 20	22.
20- 25	29.
25- 30	33.
30- 35	37.
35- 40	41.
40- 45	46.
45- 50	51.
50- 55	56.
55- 60	61.
60- 65	66.
65- 70	71.
70- 75	74.
75- 80	77.
80- 85	79.
85- 90	79.
90- 95	79.
95-100	82.
100-105	84.
105-110	86.
110-115	89.
115-120	91.
120-125	92.
125-130	92.
130-135	89.
135-140	84.
140-145	78.
145-150	69.
150-155	57.
155-160	44.
160-165	32.
165-170	18.
170-175	6.
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	62	62	62	62	56	56	56	56	46	46	46	37	37	37	29	29	29	25
1	54	51	47	45	49	46	43	41	37	35	33	29	28	26	22	21	20	16
2	48	43	39	35	44	39	35	32	31	28	26	24	22	20	18	16	15	12
3	44	37	32	28	39	34	29	26	27	24	21	21	18	16	15	13	12	9
4	40	32	27	23	36	29	25	21	24	20	17	18	15	13	13	11	10	7
5	36	29	23	19	32	26	21	18	21	17	14	16	13	11	12	10	8	6
6	33	25	20	16	30	23	18	15	19	15	12	14	12	9	10	8	7	5
7	31	23	18	14	27	21	16	13	17	13	11	13	10	8	9	7	6	4
8	28	20	16	12	25	19	14	11	15	12	9	12	9	7	9	7	5	4
9	26	19	14	11	24	17	13	10	14	10	8	11	8	6	8	6	5	3
10	24	17	12	10	22	15	11	9	13	9	7	10	7	6	7	5	4	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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.