



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: ITL61325

DATE: 11/20/08

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, DIFFUSER FROSTED SIDE OUT. BALLAST IS EXPOSED AND CENTERED IN OPTICAL COMPARTMENT.

LAMP: ONE 40-WATT SINGLE ENDED TWIN TUBE FLUORESCENT, SYLVANIA FT40DL/841/RS, VERTICAL BASE-UP POSITION.

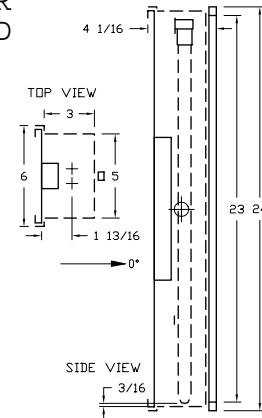
BALLAST: UNIVERSAL C240PUNVHP-B

TOTAL INPUT WATTS = 38.9 AT 120.0 VOLTS

TOTAL REFLECTANCE OF PAINT = 87.2 %

MOUNTING: WALL

REPORT IS BASED ON 3150 LUMENS PER LAMP.



CANDELA DISTRIBUTION

FLUX

	0.0	45.0	90.0	135.0	180.0	
0	31	31	31	31	31	
5	43	43	38	34	30	4
15	86	79	61	42	29	17
25	137	127	88	53	26	40
35	185	173	113	64	23	71
45	228	213	135	73	19	105
55	263	246	153	79	14	138
65	289	272	167	83	9	166
75	307	289	174	84	4	185
85	316	297	177	84	1	195
90	319	299	178	84	0	
95	319	299	178	84	1	196
105	307	287	173	82	3	183
115	285	265	161	77	5	160
125	253	235	144	71	7	130
135	214	198	122	61	9	95
145	167	155	97	50	11	61
155	116	107	70	38	12	32
165	65	59	42	25	13	12
175	23	23	18	16	13	2
180	14	14	14	14	14	

ZONAL LUMEN SUMMARY

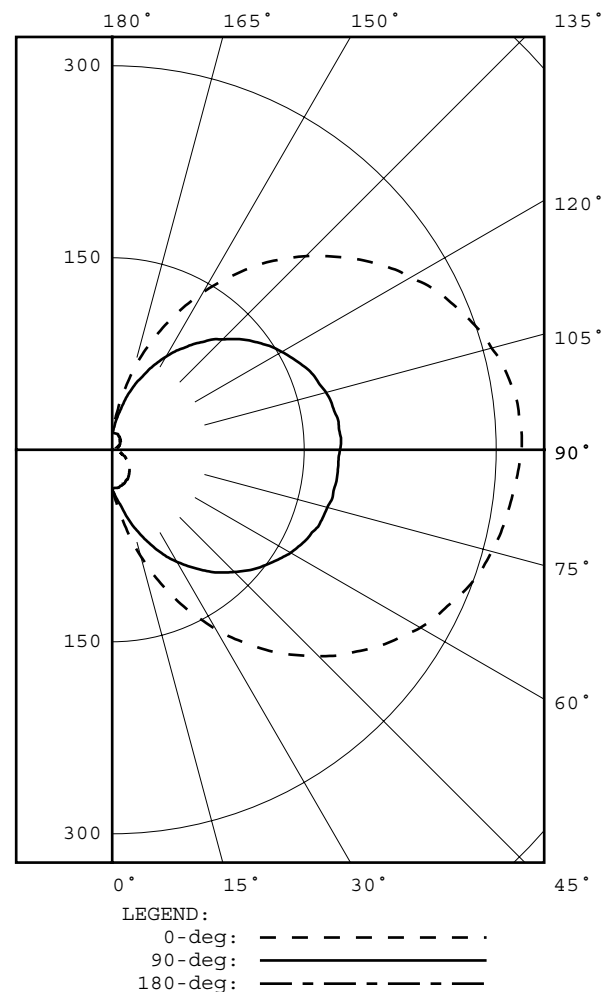
ZONE	LUMENS	%LAMP	%FIXT
0- 30	61	1.9	3.4
0- 40	131	4.2	7.3
0- 60	374	11.9	20.9
0- 90	919	29.2	51.3
90-120	540	17.2	30.2
90-130	670	21.3	37.4
90-150	826	26.2	46.1
90-180	872	27.7	48.7
0-180	1792	56.9	100.0

TOTAL LUMINAIRE EFFICIENCY = 56.9 %

CIE TYPE - DIRECT-INDIRECT

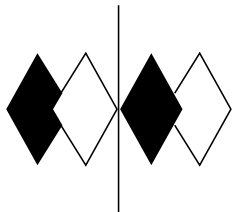
PLANE : 0-DEG 90-DEG 180-DEG

SPACING CRITERIA : 5.0 3.9 1.2



Checked B. HYRE

Approved R. BEATTIE



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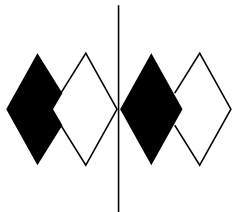
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	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
0.0	31	31	31	31	31	31	31	31	31
5.0	43	41	43	38	38	35	34	32	30
10.0	62	58	59	50	47	42	37	32	30
15.0	86	81	79	67	61	50	42	32	29
20.0	111	106	104	85	74	60	48	33	28
25.0	137	130	127	103	88	70	53	33	26
30.0	162	156	150	121	101	80	59	34	25
35.0	185	181	173	139	113	90	64	34	23
40.0	208	204	194	155	125	98	69	34	21
45.0	228	225	213	170	135	105	73	34	19
50.0	246	244	231	184	145	112	76	34	17
55.0	263	262	246	197	153	118	79	33	14
60.0	278	277	261	208	161	123	81	32	12
65.0	289	291	272	217	167	127	83	31	9
70.0	300	302	282	224	172	130	83	30	7
75.0	307	310	289	230	174	132	84	28	4
80.0	312	316	294	234	176	133	84	27	2
85.0	316	319	297	236	177	133	84	26	1
90.0	319	322	299	238	178	134	84	25	0
95.0	319	322	299	238	178	134	84	26	1
100.0	315	317	294	234	176	132	84	26	2
105.0	307	308	287	228	173	129	82	26	3
110.0	297	298	277	220	168	126	80	26	4
115.0	285	285	265	211	161	121	77	26	5
120.0	269	270	251	200	153	115	74	26	6
125.0	253	252	235	188	144	109	71	26	7
130.0	234	233	218	173	134	102	66	25	8
135.0	214	212	198	158	122	94	61	24	9
140.0	192	189	177	142	110	85	56	23	10
145.0	167	165	155	124	97	75	50	22	11
150.0	142	139	131	105	84	65	44	20	11
155.0	116	113	107	86	70	54	38	18	12
160.0	90	87	83	67	56	44	31	17	13
165.0	65	63	59	49	42	33	25	16	13
170.0	41	40	38	33	28	24	20	15	13
175.0	23	22	23	19	18	17	16	14	13
180.0	14	14	14	14	14	14	14	14	14



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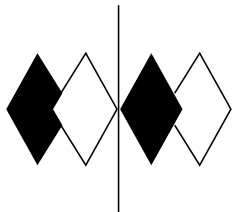
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ZONAL LUMEN SUMMARY

0- 5	1.
5- 10	3.
10- 15	6.
15- 20	11.
20- 25	17.
25- 30	23.
30- 35	31.
35- 40	39.
40- 45	48.
45- 50	57.
50- 55	65.
55- 60	73.
60- 65	80.
65- 70	86.
70- 75	91.
75- 80	95.
80- 85	97.
85- 90	98.
90- 95	99.
95-100	97.
100-105	94.
105-110	89.
110-115	84.
115-120	77.
120-125	69.
125-130	61.
130-135	52.
135-140	43.
140-145	35.
145-150	27.
150-155	19.
155-160	13.
160-165	8.
165-170	4.
170-175	2.
175-180	0.



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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	61	61	61	61	57	57	57	57	48	48	48	40	40	40	33	33	33	29
1	53	49	45	42	48	45	42	39	37	35	33	30	28	27	24	23	21	18
2	47	41	36	32	42	37	33	30	31	28	25	25	22	20	19	17	16	13
3	42	35	30	25	38	32	27	23	26	22	19	21	18	16	16	14	12	9
4	38	30	25	20	34	28	23	19	23	19	16	18	15	12	14	11	9	7
5	34	27	21	17	31	24	19	16	20	16	13	16	13	10	12	10	8	6
6	31	23	18	14	29	21	17	13	18	14	11	14	11	9	11	8	6	5
7	29	21	16	12	26	19	14	11	16	12	9	13	10	7	10	7	5	4
8	27	19	14	10	24	17	13	10	14	11	8	11	8	6	9	6	5	3
9	25	17	12	9	23	16	11	8	13	9	7	10	8	5	8	6	4	3
10	23	16	11	8	21	14	10	7	12	8	6	10	7	5	7	5	4	2

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.