



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: ITL64518

DATE: 04/30/10

PREPARED FOR: ENCAPSULITE INTERNATIONAL INC.

CATALOG NUMBER: WGP712

LUMINAIRE: FORMED WHITE PAINTED METAL BALLAST TRAY, FORMED METAL REFLECTOR WITH PREMIUM SPECULAR FINISH, CLEAR EXTRUDED PLASTIC CYLINDRICAL LENS WITH GRAY COATED UPPER EXTERIOR SURFACE ENCOMPASSING BALLAST TRAY AND LAMP, MOLDED WHITE PLASTIC END CAPS.

LAMP: ONE 17-WATT T-8 FO17/841/ECO LINEAR FLUORESCENT.

BALLAST: UNIVERSAL B132IUNVHP-B

MOUNTING: SURFACE/SUSPENDED

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.

TOTAL INPUT WATTS = 16.5 AT 120.0 VOLTS

LUMEN TO CANDELA RATIO USED = 9.15

REPORT IS BASED ON 1350 LUMENS PER LAMP.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	254	254	254	254	254	
5	253	254	258	259	262	25
15	243	254	273	284	289	76
25	225	246	276	289	292	123
35	197	226	256	267	265	153
45	162	195	217	222	225	160
55	118	159	174	191	195	152
65	69	108	132	157	166	128
75	26	61	104	143	156	105
85	1	34	81	116	127	81
90	0	23	66	99	111	
95	0	13	51	79	94	52
105	0	2	23	46	59	27
115	0	0	4	16	25	9
125	0	0	1	3	4	2
135	0	0	0	1	1	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	224	16.6	20.5
0- 40	377	27.9	34.5
0- 60	689	51.1	63.0
0- 90	1004	74.3	91.8
90-120	88	6.5	8.1
90-130	90	6.6	8.2
90-150	90	6.7	8.2
90-180	90	6.7	8.2
0-180	1094	81.0	100.0

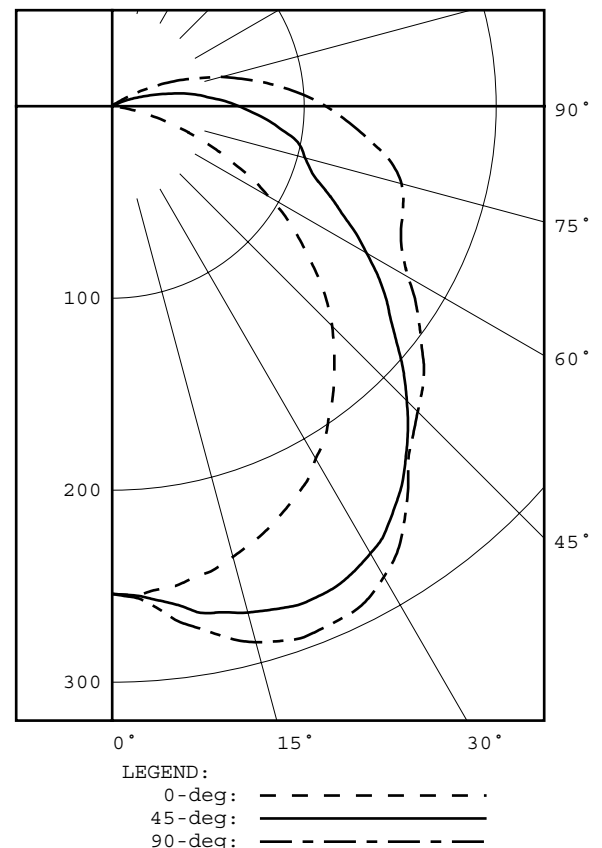
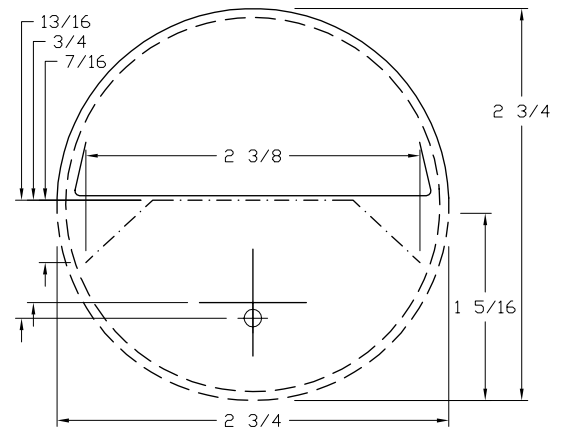
TOTAL LUMINAIRE EFFICIENCY = 81.0 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

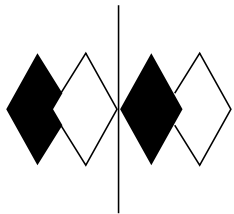
SPACING CRITERIA : 1.2 1.5

SHIELDING ANGLES : 1 0



Checked B. HYRE

Approved R. BEATTIE



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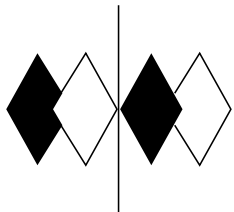
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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	5199.	6346.	6086.
55	4666.	5788.	5757.
65	3701.	5154.	5451.
75	2277.	4930.	5827.
85	258.	4810.	5530.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	254	254	254	254	254
5.0	253	254	258	259	262
10.0	249	254	268	273	277
15.0	243	254	273	284	289
20.0	235	252	277	290	294
25.0	225	246	276	289	292
30.0	212	237	269	282	283
35.0	197	226	256	267	265
40.0	180	211	238	244	240
45.0	162	195	217	222	225
50.0	141	179	194	208	212
55.0	118	159	174	191	195
60.0	94	134	153	172	178
65.0	69	108	132	157	166
70.0	46	83	114	149	161
75.0	26	61	104	143	156
80.0	9	44	96	133	144
85.0	1	34	81	116	127
90.0	0	23	66	99	111
95.0	0	13	51	79	94
100.0	0	5	38	63	76
105.0	0	2	23	46	59
110.0	0	1	12	30	41
115.0	0	0	4	16	25
120.0	0	0	2	6	12
125.0	0	0	1	3	4
130.0	0	0	0	1	2
135.0	0	0	0	1	1
140.0	0	0	0	0	1
145.0	0	0	0	0	0
150.0	0	0	0	0	0
155.0	0	0	0	0	0
160.0	0	0	0	0	0
165.0	0	0	0	0	0
170.0	0	0	0	0	0
175.0	0	0	0	0	0
180.0	0	0	0	0	0



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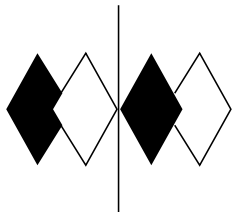
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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	6.
5- 10	19.
10- 15	32.
15- 20	45.
20- 25	56.
25- 30	67.
30- 35	74.
35- 40	79.
40- 45	80.
45- 50	80.
50- 55	78.
55- 60	74.
60- 65	67.
65- 70	61.
70- 75	55.
75- 80	50.
80- 85	44.
85- 90	37.
90- 95	30.
95-100	23.
100-105	16.
105-110	11.
110-115	6.
115-120	3.
120-125	1.
125-130	0.
130-135	0.
135-140	0.
140-145	0.
145-150	0.
150-155	0.
155-160	0.
160-165	0.
165-170	0.
170-175	0.
175-180	0.

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	25.
0- 20	101.
0- 30	224.
0- 40	377.
0- 50	537.
0- 60	689.
0- 70	818.
0- 80	923.
0- 90	1004.
0-100	1056.
0-110	1083.
0-120	1092.
0-130	1093.
0-140	1094.
0-150	1094.
0-160	1094.
0-170	1094.
0-180	1094.



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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	95	95	95	95	92	92	92	92	86	86	86	81	81	81	76	76	76	74
1	84	79	75	71	81	77	73	69	72	69	66	68	65	63	64	62	60	57
2	76	68	62	56	73	66	60	55	62	57	53	58	54	51	55	51	49	46
3	69	59	52	46	66	57	51	45	54	48	44	51	46	42	48	44	40	38
4	63	52	44	39	60	51	43	38	48	42	37	45	40	35	42	38	34	32
5	57	46	39	33	55	45	38	32	43	36	31	40	35	30	38	33	29	27
6	53	42	34	28	51	40	33	28	38	32	27	36	31	26	34	29	26	24
7	49	38	30	25	47	37	30	25	35	28	24	33	27	23	31	26	23	21
8	46	34	27	22	44	33	27	22	32	26	21	30	25	21	29	24	20	19
9	42	31	24	20	41	30	24	20	29	23	19	28	22	19	26	22	18	17
10	40	29	22	18	38	28	22	18	27	21	17	26	20	17	24	20	16	15

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.