

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: ITL64520

DATE: 05/03/10

PREPARED FOR: ENCAPSULITE INTERNATIONAL INC.

CATALOG NUMBER: WGP714

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 32-WATT T-8 FO32/841/ECO LINEAR FLUORESCENT.

BALLAST: UNIVERSAL B132IUNVHP-B

MOUNTING: SURFACE/SUSPENDED

THE 0 DEGREE PLANE IS PARALLEL WITH
THE LAMP.

TOTAL INPUT WATTS = 28.5 AT 120.0 VOLTS

LUMEN TO CANDELA RATIO USED = 9.17

REPORT IS BASED ON 2950 LUMENS PER LAMP.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	679	679	679	679	679	
5	675	683	688	685	689	65
15	646	670	678	675	672	189
25	593	626	626	649	662	292
35	515	548	589	607	599	359
45	422	457	499	510	515	374
55	307	369	396	443	447	354
65	184	251	304	349	359	293
75	69	148	229	308	328	232
85	3	75	169	241	260	169
90	0	50	138	206	227	
95	0	26	107	162	191	107
105	0	3	46	89	114	52
115	0	0	7	28	43	15
125	0	0	1	4	6	2
135	0	0	0	1	2	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	546	18.5	21.8
0- 40	906	30.7	36.2
0- 60	1633	55.4	65.2
0- 90	2327	78.9	92.9
90-120	175	5.9	7.0
90-130	177	6.0	7.1
90-150	177	6.0	7.1
90-180	177	6.0	7.1
0-180	2504	84.9	100.0

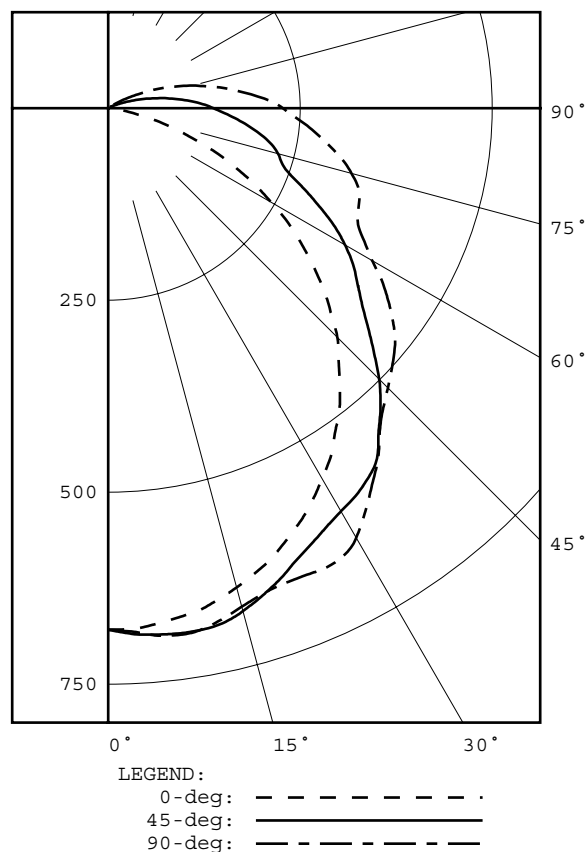
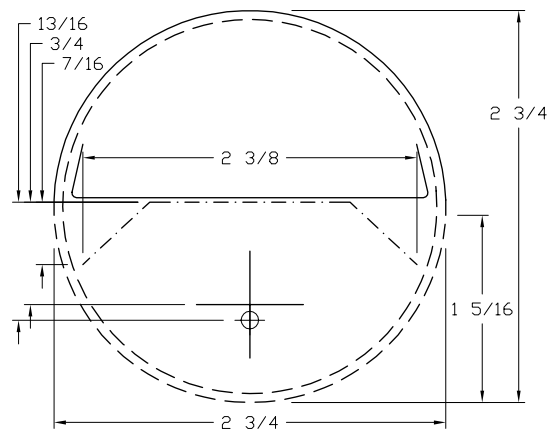
TOTAL LUMINAIRE EFFICIENCY = 84.9 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.2 1.4

SHIELDING ANGLES : 1 0

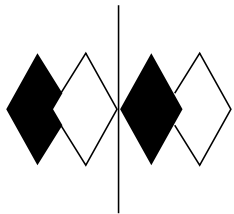


LEGEND:

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

Checked N. WHITE

Approved R. BEATTIE



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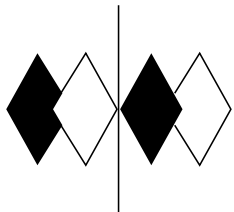
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LUMINANCE DATA IN CANDELA/SQ M			
ANGLE	AVERAGE	AVERAGE	AVERAGE
IN DEG	0-DEG	45-DEG	90-DEG
45	6893.	7430.	7096.
55	6180.	6708.	6714.
65	5030.	6041.	5996.
75	3073.	5520.	6230.
85	397.	5096.	5757.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	679	679	679	679	679
5.0	675	683	688	685	689
10.0	665	679	690	691	690
15.0	646	670	678	675	672
20.0	623	653	653	655	660
25.0	593	626	626	649	662
30.0	557	589	606	644	646
35.0	515	548	589	607	599
40.0	469	502	548	559	550
45.0	422	457	499	510	515
50.0	366	415	441	479	487
55.0	307	369	396	443	447
60.0	245	312	356	395	397
65.0	184	251	304	349	359
70.0	121	198	252	322	348
75.0	69	148	229	308	328
80.0	27	100	203	277	295
85.0	3	75	169	241	260
90.0	0	50	138	206	227
95.0	0	26	107	162	191
100.0	0	10	75	124	152
105.0	0	3	46	89	114
110.0	0	1	21	56	78
115.0	0	0	7	28	43
120.0	0	0	3	10	18
125.0	0	0	1	4	6
130.0	0	0	0	2	3
135.0	0	0	0	1	2
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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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	16.
5- 10	49.
10- 15	80.
15- 20	109.
20- 25	134.
25- 30	157.
30- 35	175.
35- 40	185.
40- 45	187.
45- 50	187.
50- 55	182.
55- 60	172.
60- 65	156.
65- 70	138.
70- 75	123.
75- 80	109.
80- 85	92.
85- 90	77.
90- 95	61.
95-100	46.
100-105	32.
105-110	20.
110-115	11.
115-120	5.
120-125	2.
125-130	1.
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	65.
0- 20	255.
0- 30	546.
0- 40	906.
0- 50	1279.
0- 60	1633.
0- 70	1926.
0- 80	2159.
0- 90	2327.
0-100	2435.
0-110	2487.
0-120	2502.
0-130	2504.
0-140	2504.
0-150	2504.
0-160	2504.
0-170	2504.
0-180	2504.



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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	100	100	100	100	97	97	97	97	91	91	91	86	86	86	81	81	81	79
1	89	84	80	76	86	81	77	74	77	73	70	72	69	67	68	66	64	62
2	80	72	66	60	77	70	64	59	66	61	57	62	58	54	59	55	52	50
3	73	63	55	49	70	61	54	48	58	52	47	54	49	45	51	47	44	41
4	66	55	47	41	64	54	46	41	51	45	40	48	43	38	46	41	37	35
5	61	49	41	35	59	48	40	35	45	39	34	43	37	33	41	36	32	30
6	56	44	36	31	54	43	36	30	41	34	30	39	33	29	37	32	28	26
7	52	40	32	27	50	39	32	27	37	31	26	35	30	25	34	29	25	23
8	48	36	29	24	47	36	29	24	34	28	23	32	27	23	31	26	22	20
9	45	33	26	21	44	33	26	21	31	25	21	30	24	20	29	24	20	18
10	42	31	24	19	41	30	24	19	29	23	19	28	22	18	27	22	18	17

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.