

REPORT NUMBER: ITL70237

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ISSUE DATE: 11/07/11

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: 907S-03-X-4-X-OP/PB-X-120-T8

LUMINAIRE: EXTRUDED SEMI-DIFFUSE METAL HOUSING WITH FABRICATED SEMI-DIFFUSE METAL END CAPS, TWO FORMED METAL SIDE REFLECTORS WITH PREMIUM SPECULAR FINISH, FABRICATED SEMI-SPECULAR METAL PARABOLIC 29-CELL LOUVER. OPEN TOP.

LAMPS: THREE 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.

BALLAST: ONE SYLVANIA QTP 1X32T8/UNV ISN-SC, ONE SYLVANIA QTP 2X32T8/UNV ISN-SC

MOUNTING: SUSPENDED

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

TOTAL INPUT WATTS = 86.3 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	1102	1102	1102	1102	1102	
5	1100	1102	1102	1098	1097	105
15	1037	1048	1082	1109	1120	306
25	932	967	1052	1147	1180	486
35	798	864	1008	1082	1127	612
45	626	749	878	973	1044	663
55	390	561	705	811	887	598
65	55	103	325	508	603	323
75	13	19	30	141	262	91
85	2	4	6	8	12	9
90	0	0	0	0	0	
95	44	157	155	157	146	160
105	220	439	538	596	603	518
115	419	613	818	913	930	743
125	617	762	991	1130	1163	842
135	792	908	1078	1219	1273	818
145	946	1021	1141	1237	1280	708
155	1065	1110	1184	1242	1266	543
165	1148	1166	1194	1219	1231	337
175	1188	1191	1190	1187	1189	114
180	1187	1187	1187	1187	1187	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	896	10.1	11.2
0- 40	1509	17.0	18.9
0- 60	2770	31.3	34.7
0- 90	3192	36.1	40.0
90-120	1421	16.1	17.8
90-130	2263	25.6	28.4
90-150	3788	42.8	47.5
90-180	4782	54.0	60.0
0-180	7974	90.1	100.0

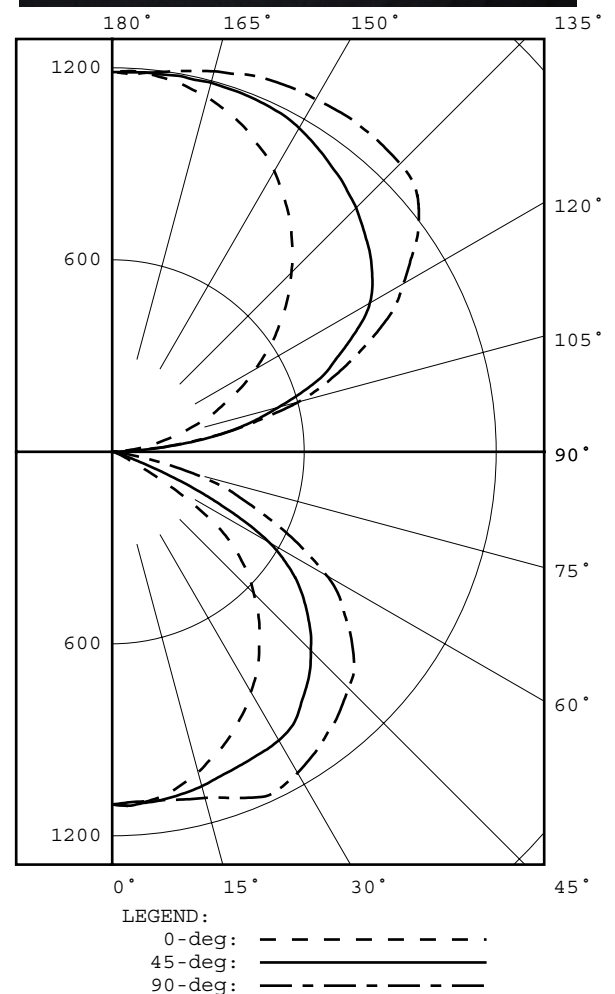
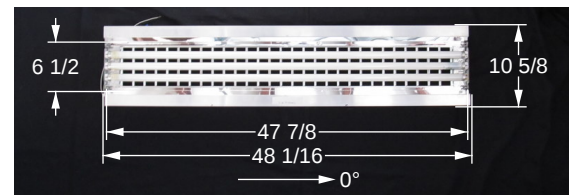
TOTAL LUMINAIRE EFFICIENCY = 90.1 %

CIE TYPE - DIRECT-INDIRECT

PLANE : 0-DEG 90-DEG

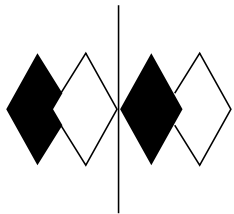
SPACING CRITERIA : 1.18 1.54

SHIELDING ANGLES : 27 12



Checked M. KLOPF

Approved R. BEATTIE
Lighting Engineer



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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

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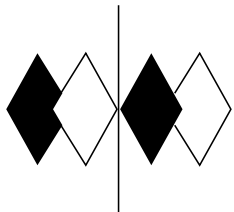
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 44.125 5.500

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	5654.	7930.	9430.
55	4343.	7850.	9877.
65	831.	4912.	9113.
75	321.	740.	6465.
85	147.	440.	879.



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	0.0	22.5	45.0	67.5	90.0
0.0	1102	1102	1102	1102	1102
5.0	1100	1102	1102	1098	1097
10.0	1077	1082	1095	1101	1104
15.0	1037	1048	1082	1109	1120
20.0	989	1010	1064	1126	1151
25.0	932	967	1052	1147	1180
30.0	867	918	1041	1126	1159
35.0	798	864	1008	1082	1127
40.0	716	810	948	1033	1090
45.0	626	749	878	973	1044
50.0	527	679	798	909	984
55.0	390	561	705	811	887
60.0	184	332	567	685	775
65.0	55	103	325	508	603
70.0	26	39	86	323	432
75.0	13	19	30	141	262
80.0	6	10	15	24	76
85.0	2	4	6	8	12
90.0	0	0	0	0	0
95.0	44	157	155	157	146
100.0	125	314	375	377	379
105.0	220	439	538	596	603
110.0	325	537	704	751	771
115.0	419	613	818	913	930
120.0	517	685	930	1019	1051
125.0	617	762	991	1130	1163
130.0	708	837	1036	1193	1245
135.0	792	908	1078	1219	1273
140.0	873	971	1112	1232	1279
145.0	946	1021	1141	1237	1280
150.0	1013	1070	1168	1240	1272
155.0	1065	1110	1184	1242	1266
160.0	1112	1142	1191	1233	1253
165.0	1148	1166	1194	1219	1231
170.0	1173	1182	1193	1202	1208
175.0	1188	1191	1190	1187	1189
180.0	1187	1187	1187	1187	1187



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5-DEGREE

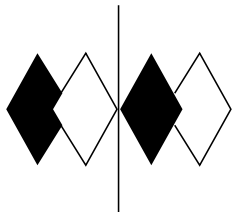
ZONAL LUMEN SUMMARY

0- 5	26.
5- 10	78.
10- 15	129.
15- 20	177.
20- 25	223.
25- 30	263.
30- 35	295.
35- 40	317.
40- 45	330.
45- 50	333.
50- 55	319.
55- 60	279.
60- 65	201.
65- 70	121.
70- 75	65.
75- 80	26.
80- 85	7.
85- 90	2.
90- 95	32.
95-100	128.
100-105	222.
105-110	296.
110-115	352.
115-120	392.
120-125	416.
125-130	426.
130-135	418.
135-140	399.
140-145	371.
145-150	336.
150-155	295.
155-160	248.
160-165	196.
165-170	141.
170-175	85.
175-180	28.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	105.
0- 20	410.
0- 30	896.
0- 40	1509.
0- 50	2172.
0- 60	2770.
0- 70	3092.
0- 80	3183.
0- 90	3192.
0-100	3352.
0-110	3870.
0-120	4613.
0-130	5455.
0-140	6272.
0-150	6980.
0-160	7523.
0-170	7860.
0-180	7974.



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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	94	94	94	94	86	86	86	86	70	70	70	56	56	56	42	42	42	36
1	87	83	80	77	79	76	73	70	62	60	58	50	48	47	38	37	37	31
2	79	73	67	63	72	66	62	58	55	51	49	44	42	40	34	32	31	26
3	72	64	57	52	65	58	53	48	48	44	41	39	36	34	30	28	26	22
4	66	56	49	44	60	52	46	41	43	38	35	34	31	29	27	25	23	19
5	60	50	43	38	55	46	40	35	38	33	30	31	27	25	24	22	20	17
6	55	45	38	33	50	41	35	30	34	29	26	28	24	22	22	19	17	15
7	51	40	33	28	46	37	31	26	31	26	23	25	22	19	20	17	15	13
8	47	36	30	25	43	34	27	23	28	23	20	23	19	17	18	15	14	11
9	44	33	27	22	40	31	25	21	26	21	18	21	17	15	16	14	12	10
10	41	30	24	20	37	28	22	18	23	19	16	19	16	13	15	13	11	9

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.