

REPORT NUMBER: ITL70241

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ISSUE DATE: 11/14/11

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: 907S-02-X-4-X-OC2/MPL-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, FORMED WHITE PAINTED METAL UPPER REFLECTOR WITH 62 UPLIGHT APERTURES OF VARIOUS SHAPES AND SIZES, CLEAR MICRO-PRISMATIC PLASTIC LENS. LENS PRISMS DOWN.

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

BALLAST: SYLVANIA QTP 2X32T8/UNV ISN-SC

MOUNTING: SUSPENDED

TOTAL REFLECTANCE OF PAINT = 90.3 %

THE 0 DEGREE PLANE IS PARALLEL WITH
THE LAMPS.

TOTAL INPUT WATTS = 56.0 AT 120.0 VOLTS

LUMEN TO CANDELA RATIO USED = 9.17

REPORT IS BASED ON 2950 LUMENS PER LAMP.

CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1558	1558	1558	1558	1558	
5	1562	1560	1558	1551	1550	148
15	1518	1522	1538	1548	1552	434
25	1402	1419	1461	1494	1493	670
35	1220	1261	1319	1362	1373	814
45	813	839	854	878	857	657
55	371	360	349	355	371	329
65	172	192	190	183	189	188
75	106	121	114	106	114	119
85	52	53	51	50	44	52
90	0	0	0	0	0	
95	19	45	35	44	32	43
105	79	121	145	157	144	139
115	146	178	215	235	224	200
125	213	230	254	276	276	224
135	265	276	286	302	294	220
145	303	309	316	323	319	197
155	330	331	337	342	338	155
165	335	335	340	343	343	96
175	306	304	304	301	301	30
180	298	298	298	298	298	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1252	21.2	26.6
0- 40	2066	35.0	43.8
0- 60	3052	51.7	64.7
0- 90	3411	57.8	72.3
90-120	382	6.5	8.1
90-130	606	10.3	12.9
90-150	1024	17.4	21.7
90-180	1304	22.1	27.7
0-180	4716	79.9	100.0

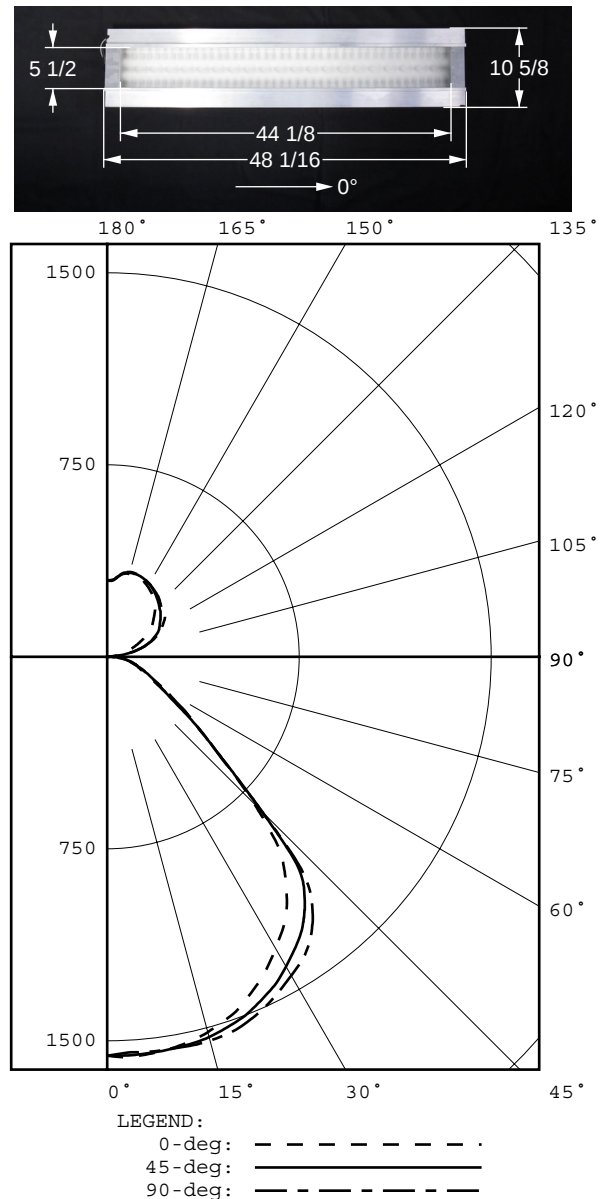
TOTAL LUMINAIRE EFFICIENCY = 79.9 %

CIE TYPE - SEMI-DIRECT

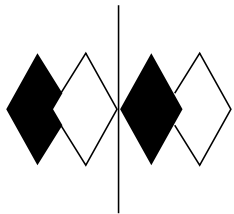
PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.25 1.37

SHIELDING ANGLES : 90 90



CheckedS.BERGIN.....
ApprovedR.BEATTIE.....
Lighting Engineer



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

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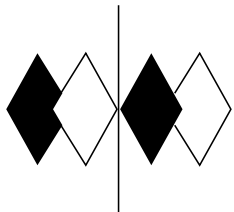
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 44.125 5.500

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	7343.	7714.	7741.
55	4131.	3886.	4131.
65	2599.	2871.	2856.
75	2616.	2813.	2813.
85	3811.	3737.	3224.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1558	1558	1558	1558	1558
5.0	1562	1560	1558	1551	1550
10.0	1547	1549	1551	1552	1552
15.0	1518	1522	1538	1548	1552
20.0	1473	1477	1509	1528	1535
25.0	1402	1419	1461	1494	1493
30.0	1315	1347	1397	1431	1438
35.0	1220	1261	1319	1362	1373
40.0	1074	1131	1198	1228	1243
45.0	813	839	854	878	857
50.0	527	512	527	549	529
55.0	371	360	349	355	371
60.0	243	253	246	246	265
65.0	172	192	190	183	189
70.0	135	150	142	138	149
75.0	106	121	114	106	114
80.0	93	84	83	83	81
85.0	52	53	51	50	44
90.0	0	0	0	0	0
95.0	19	45	35	44	32
100.0	48	87	90	101	95
105.0	79	121	145	157	144
110.0	110	148	184	206	189
115.0	146	178	215	235	224
120.0	182	204	236	260	251
125.0	213	230	254	276	276
130.0	238	253	272	286	283
135.0	265	276	286	302	294
140.0	283	295	301	313	309
145.0	303	309	316	323	319
150.0	317	321	329	334	330
155.0	330	331	337	342	338
160.0	336	335	341	346	343
165.0	335	335	340	343	343
170.0	326	325	330	328	331
175.0	306	304	304	301	301
180.0	298	298	298	298	298



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5-DEGREE

ZONAL LUMEN SUMMARY

0- 5	37.
5- 10	111.
10- 15	183.
15- 20	251.
20- 25	310.
25- 30	360.
30- 35	397.
35- 40	416.
40- 45	385.
45- 50	271.
50- 55	191.
55- 60	138.
60- 65	105.
65- 70	83.
70- 75	67.
75- 80	52.
80- 85	37.
85- 90	15.
90- 95	9.
95-100	34.
100-105	59.
105-110	80.
110-115	95.
115-120	105.
120-125	111.
125-130	113.
130-135	112.
135-140	109.
140-145	103.
145-150	94.
150-155	84.
155-160	71.
160-165	56.
165-170	40.
170-175	23.
175-180	7.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	148.
0- 20	582.
0- 30	1252.
0- 40	2066.
0- 50	2723.
0- 60	3052.
0- 70	3240.
0- 80	3359.
0- 90	3411.
0-100	3454.
0-110	3593.
0-120	3793.
0-130	4017.
0-140	4238.
0-150	4435.
0-160	4590.
0-170	4686.
0-180	4716.



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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	90	90	90	90	85	85	85	85	77	77	77	69	69	69	61	61	61	58
1	83	80	77	74	79	76	73	71	69	67	65	62	60	59	56	54	53	50
2	76	71	66	62	72	68	64	60	61	58	55	56	53	51	50	48	47	44
3	71	63	58	53	67	60	56	52	55	51	48	50	47	44	45	43	41	38
4	65	57	51	46	62	54	49	45	50	45	42	45	42	39	41	39	36	34
5	60	51	45	40	57	49	43	39	45	40	37	41	37	34	38	35	32	30
6	56	46	40	36	53	45	39	35	41	36	33	38	34	31	35	31	29	27
7	52	42	36	32	49	41	35	31	38	33	29	35	31	28	32	28	26	24
8	48	39	33	28	46	37	32	28	34	30	26	32	28	25	29	26	23	22
9	45	36	30	26	43	34	29	25	32	27	24	29	25	23	27	24	21	20
10	42	33	27	23	40	32	26	23	29	25	22	27	23	21	25	22	20	18

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.