

REPORT NUMBER: ITL71194

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ISSUE DATE: 01/02/12

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: LTS-02-X-4-X-OC2/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, FORMED WHITE PAINTED METAL UPPER REFLECTOR WITH 62 UPLIGHT APERTURES OF VARIOUS SHAPES AND SIZES, FABRICATED SEMI-SPECULAR METAL PARABOLIC 29-CELL LOUVER. OPEN TOP.

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

BALLAST: SYLVANIA QTP 2X32T8/UNV ISN-SC

MOUNTING: SUSPENDED

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

	0.0	22.5	45.0	67.5	90.0	FLUX
0	1187	1187	1187	1187	1187	
5	1184	1183	1183	1180	1181	113
15	1119	1130	1152	1174	1183	326
25	1011	1040	1102	1169	1196	509
35	872	926	1034	1133	1183	645
45	689	789	922	1018	1073	695
55	437	589	709	784	858	598
65	60	101	305	489	590	311
75	14	19	29	120	204	82
85	3	4	5	8	12	9
90	0	0	0	0	0	
95	15	38	29	40	27	37
105	59	100	127	139	129	120
115	111	144	185	207	198	170
125	159	181	213	238	238	185
135	197	216	237	252	250	179
145	229	241	255	264	261	158
155	250	258	267	273	269	122
165	264	266	270	272	271	76
175	267	267	267	266	265	26
180	265	265	265	265	265	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	948	16.1	21.7
0- 40	1592	27.0	36.5
0- 60	2885	48.9	66.2
0- 90	3287	55.7	75.4
90-120	326	5.5	7.5
90-130	512	8.7	11.7
90-150	848	14.4	19.5
90-180	1072	18.2	24.6
0-180	4359	73.9	100.0

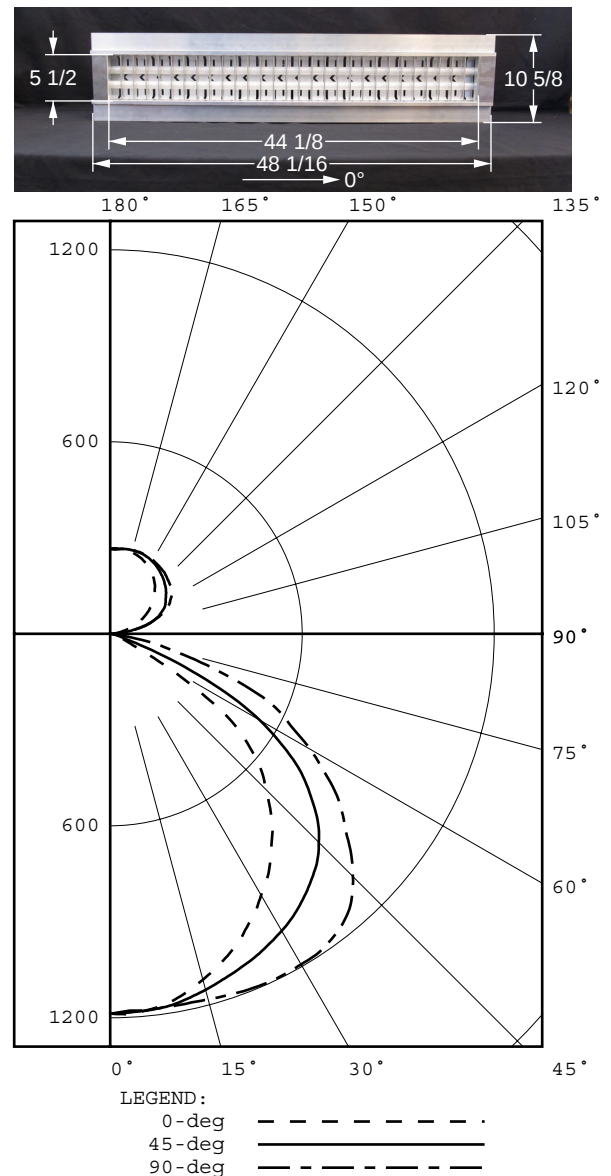
TOTAL LUMINAIRE EFFICIENCY = 73.9 %

CIE TYPE - SEMI-DIRECT

PLANE : 0-DEG 90-DEG

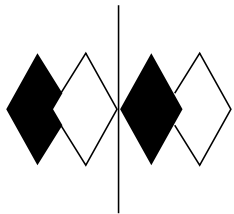
SPACING CRITERIA : 1.19 1.52

SHIELDING ANGLES : 27 14



Checked B. HYRE

Approved R. BEATTIE
Lighting Engineer



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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
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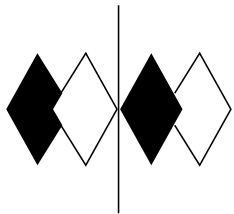
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PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 44.125 5.500

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	6223.	8328.	9692.
55	4866.	7895.	9554.
65	907.	4609.	8917.
75	345.	716.	5034.
85	220.	366.	879.



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	1187	1187	1187	1187	1187
5.0	1184	1183	1183	1180	1181
10.0	1161	1164	1174	1177	1180
15.0	1119	1130	1152	1174	1183
20.0	1071	1087	1127	1175	1191
25.0	1011	1040	1102	1169	1196
30.0	943	985	1072	1155	1193
35.0	872	926	1034	1133	1183
40.0	789	861	986	1093	1150
45.0	689	789	922	1018	1073
50.0	585	708	829	910	962
55.0	437	589	709	784	858
60.0	197	346	539	647	722
65.0	60	101	305	489	590
70.0	28	41	84	302	402
75.0	14	19	29	120	204
80.0	8	11	13	24	71
85.0	3	4	5	8	12
90.0	0	0	0	0	0
95.0	15	38	29	40	27
100.0	34	74	78	91	81
105.0	59	100	127	139	129
110.0	84	122	161	180	167
115.0	111	144	185	207	198
120.0	136	162	200	226	218
125.0	159	181	213	238	238
130.0	179	200	226	243	243
135.0	197	216	237	252	250
140.0	214	230	246	258	257
145.0	229	241	255	264	261
150.0	242	251	262	269	266
155.0	250	258	267	273	269
160.0	258	262	270	273	271
165.0	264	266	270	272	271
170.0	267	268	269	268	269
175.0	267	267	267	266	265
180.0	265	265	265	265	265



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5-DEGREE

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0- 5	28.
5- 10	84.
10- 15	138.
15- 20	188.
20- 25	234.
25- 30	275.
30- 35	310.
35- 40	335.
40- 45	349.
45- 50	346.
50- 55	324.
55- 60	274.
60- 65	194.
65- 70	117.
70- 75	58.
75- 80	24.
80- 85	7.
85- 90	2.
90- 95	7.
95-100	29.
100-105	51.
105-110	69.
110-115	81.
115-120	89.
120-125	92.
125-130	93.
130-135	91.
135-140	88.
140-145	82.
145-150	75.
150-155	66.
155-160	56.
160-165	44.
165-170	32.
170-175	19.
175-180	6.

10-DEGREE

ZONAL LUMEN SUMMARY

0- 10	113.
0- 20	438.
0- 30	948.
0- 40	1592.
0- 50	2287.
0- 60	2885.
0- 70	3196.
0- 80	3278.
0- 90	3287.
0-100	3324.
0-110	3443.
0-120	3613.
0-130	3798.
0-140	3977.
0-150	4135.
0-160	4257.
0-170	4333.
0-180	4359.



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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	84	84	84	84	80	80	80	80	72	72	72	65	65	65	59	59	59	56
1	77	74	71	69	73	71	68	66	64	62	61	58	57	56	53	52	51	48
2	71	65	61	57	67	62	58	55	57	54	51	52	49	47	47	45	44	41
3	65	58	52	48	61	55	50	46	50	46	43	46	43	40	42	40	37	35
4	59	51	45	41	56	49	44	39	45	40	37	41	37	35	38	35	32	30
5	54	46	39	35	52	44	38	34	40	36	32	37	33	30	34	31	28	26
6	50	41	35	30	48	39	34	30	36	31	28	33	29	26	31	27	25	23
7	46	37	31	27	44	36	30	26	33	28	25	30	26	23	28	24	22	20
8	43	34	28	24	41	32	27	23	30	25	22	28	24	21	25	22	19	18
9	40	31	25	21	38	30	24	21	27	23	20	25	21	19	23	20	18	16
10	37	28	23	19	36	27	22	19	25	21	18	23	20	17	22	18	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.