



LUMINAIRE TESTING LABORATORY, INC.

SUSTAINING
MEMBER
of the
IESNA

905 Harrison Street · Allentown, PA 18103 · 610-770-1044 · Fax 610-770-8912 · www.LuminaireTesting.com

LTL NUMBER: 10345

DATE: 09-22-2006

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: 0505P-01-C-4-OP/PBW-W-120T8

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM REFLECTORS, 29 CELL, 3/4" DEEP, FORMED WHITE ENAMEL ALUMINUM LOUVER, OPEN TOP.

LAMP: ONE 32 WATT T8 LINEAR FLUORESCENT LAMP RATED AT 2850 LUMENS.

LAMP CATALOG NUMBER: PHILIPS F32T8/TL830/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B232IUNV-C

MOUNTING: WALL

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 35.5 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	FLUX
0	278	278	278	278	278	278	278	278	278	
5	299	297	292	282	274	264	259	252	251	26
15	331	320	300	274	251	223	197	181	175	70
25	351	328	291	253	218	173	137	113	104	100
35	366	323	268	219	178	126	85	54	41	114
45	373	308	233	176	135	86	47	35	32	118
55	319	260	183	122	90	56	42	39	36	108
65	169	129	93	52	47	42	37	37	37	67
75	33	31	28	26	24	22	21	22	24	28
85	8	7	7	6	6	5	4	3	2	7
90	6	5	4	3	0	1	0	0	0	
95	47	62	63	62	22	3	0	0	0	34
105	248	264	248	183	82	124	10	6	8	137
115	403	396	347	283	152	203	219	94	84	241
125	470	459	419	349	214	247	354	380	373	317
135	515	503	471	377	269	282	337	422	458	304
145	540	528	485	390	314	306	361	384	395	253
155	525	502	459	398	349	327	357	386	397	187
165	467	453	431	399	374	355	352	363	367	112
175	413	407	403	393	388	377	374	370	372	37
180	388	388	388	388	388	388	388	388	388	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	197	6.9	8.7
0- 40	311	10.9	13.8
0- 60	537	18.9	23.8
0- 90	639	22.4	28.3
90-120	412	14.4	18.2
90-130	729	25.6	32.2
90-150	1286	45.1	56.9
90-180	1622	56.9	71.7
0-180	2261	79.3	100.0

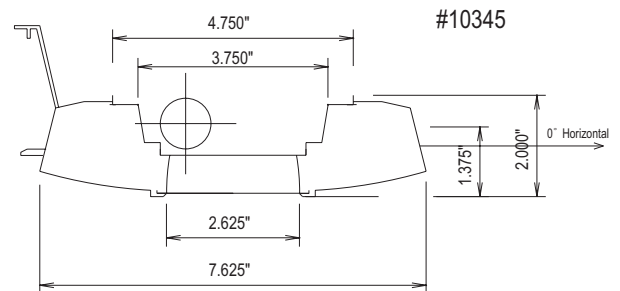
TOTAL LUMINAIRE EFFICIENCY: 79.3%

CIE TYPE: SEMI-INDIRECT

PLANE: 0-DEG 90-DEG 180-DEG

SPACING CRITERIA: 1.9 1.1 0.6

SHIELDING ANGLES: 18 30



Approved By: MG



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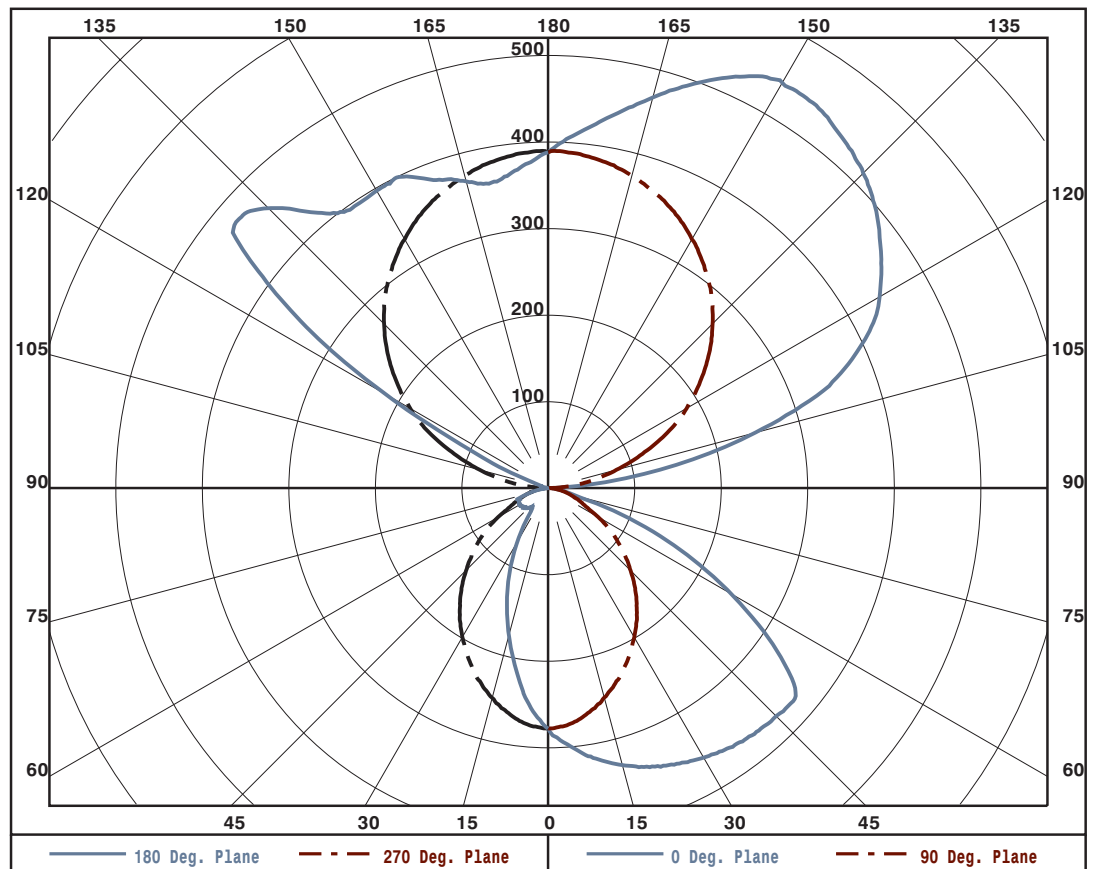
ZONAL LUMEN SUMMARY

0- 5	7.
5- 10	19.
10- 15	31.
15- 20	40.
20- 25	47.
25- 30	53.
30- 35	56.
35- 40	58.
40- 45	59.
45- 50	59.
50- 55	58.
55- 60	50.
60- 65	39.
65- 70	28.
70- 75	17.
75- 80	11.
80- 85	5.
85- 90	1.
90- 95	6.
95-100	28.
100-105	55.
105-110	82.
110-115	108.
115-120	133.
120-125	154.
125-130	163.
130-135	158.
135-140	147.
140-145	134.
145-150	120.
150-155	103.
155-160	84.
160-165	65.
165-170	46.
170-175	28.
175-180	9.

PLANE: 0-DEG 90-DEG
 LUMINOUS LENGTH: 2.625 43.875

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	3741.	3741.	3741.
45	7099.	4434.	2569.
55	7484.	4294.	2112.
65	5381.	2961.	1497.
75	1716.	1456.	1248.
85	1235.	1081.	926.





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CANDELA DISTRIBUTION

Table with 11 columns representing candela values at various angles (0.0 to 180.0) and 19 rows representing different beam diameters (0 to 180).



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	81	81	81	81	72	72	72	72	56	56	56	42	42	42	29	29	29	22
1	74	71	68	65	66	63	61	59	50	48	47	37	36	35	26	25	25	19
2	68	62	58	54	60	56	52	49	44	41	39	33	31	30	23	22	21	17
3	62	55	49	45	55	49	45	41	39	36	33	30	27	26	21	19	18	15
4	57	48	43	38	50	44	39	35	35	31	28	26	24	22	19	17	16	13
5	52	43	37	32	46	39	34	30	31	27	24	23	21	19	17	15	14	11
6	47	38	32	28	42	35	29	26	28	24	21	21	18	16	15	13	12	9
7	44	34	28	24	39	31	26	22	25	21	18	19	16	14	13	12	11	8
8	40	31	25	21	36	28	23	19	22	19	16	17	14	13	12	10	9	7
9	37	28	22	18	33	25	20	17	20	17	14	15	13	11	11	9	8	6
10	35	25	20	16	31	23	18	15	18	15	12	14	12	10	10	8	7	5

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

THIS TEST WAS CONDUCTED USING RELATIVE PHOTOMETRY TECHNIQUES ACCORDING TO STANDARD IESNA PROCEDURES. THE USER MUST THEREFORE USE CAUTION IN THE FOLLOWING SITUATIONS: 1) THIS TEST WAS PERFORMED USING A SPECIFIC BALLAST/LAMP COMBINATION. EXTRAPOLATION OF THESE DATA FOR OTHER BALLAST/LAMP COMBINATIONS MAY PRODUCE ERRONEOUS RESULTS. 2) ACCORDING TO IESNA PROCEDURES, THE BALLAST(S) AND LAMP(S) ARE PRESUMED TO PRODUCE 100% OF RATED OUTPUT. AN APPROPRIATE BALLAST FACTOR MUST BE APPLIED TO THE LUMEN OUTPUT RATINGS AND LUMINOUS INTENSITY VALUES GIVEN. 3) THIS TEST WAS CONDUCTED IN A CONTROLLED LABORATORY ENVIRONMENT WHERE THE AMBIENT TEMPERATURE WAS HELD AT 25°C ±1°C. FIELD PERFORMANCE MAY DIFFER PARTICULARLY IN REGARDS TO CHANGE IN LUMINOUS OUTPUT AS A RESULT OF DIFFERENCE IN AMBIENT TEMPERATURE AND METHOD OF MOUNTING THE LUMINAIRE.