



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: 12722

DATE: 02-28-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-D2-4-X-LP-X-120-T5

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, CLEAR LINEAR PRISMATIC PLASTIC LENS.

LAMP: TWO 28 WATT T5 LINEAR FLUORESCENT LAMPS RATED AT 2610 LUMENS EACH.

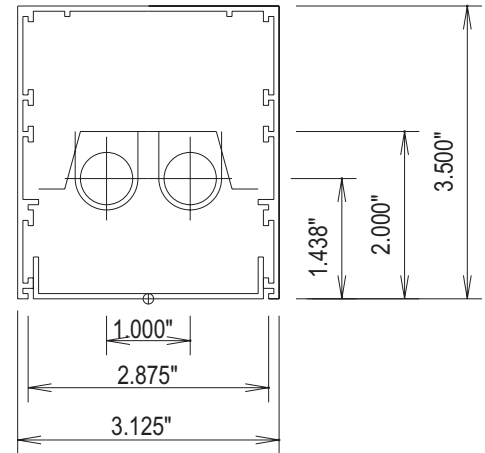
LAMP CATALOG NUMBER: PHILIPS F28T5/835/ALTO

BALLAST: ONE ADVANCE ICN-2S28

MOUNTING: PENDANT

#12722

LUMEN TO CANDELA RATIO USED = 9.18
TOTAL INPUT WATTS = 50.2 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

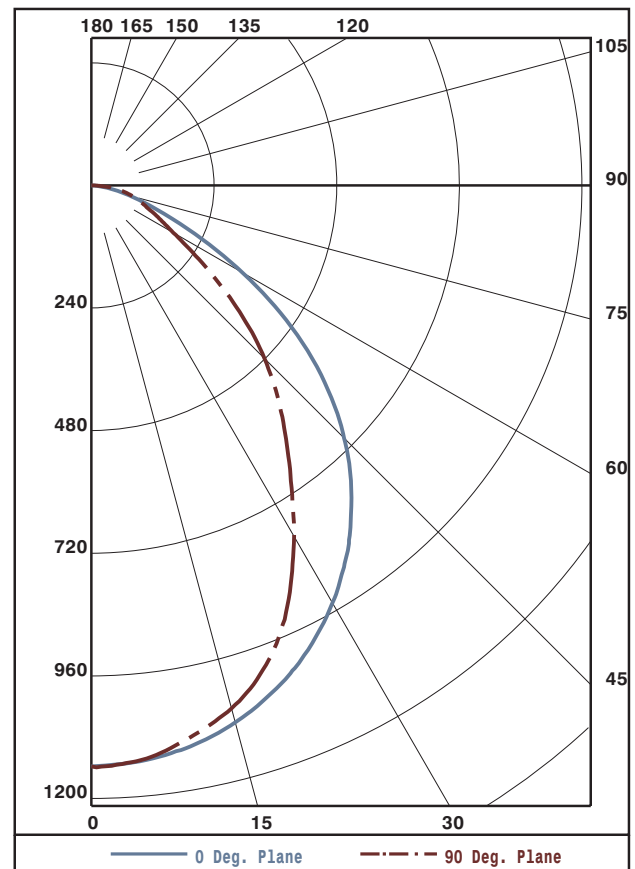


CANDELA DISTRIBUTION						FLUX
0.0	22.5	45.0	67.5	90.0		
0	1137	1137	1137	1137	1137	
5	1131	1129	1133	1126	1129	107
15	1088	1081	1074	1060	1060	303
25	1003	987	964	922	907	440
35	874	844	762	694	678	480
45	699	631	538	492	478	433
55	473	401	333	283	265	311
65	222	216	171	146	140	179
75	78	94	93	88	85	94
85	13	27	32	30	29	30
90	0	2	4	6	6	

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	850	16.3	35.7	
0- 40	1330	25.5	55.9	
0- 60	2074	39.7	87.2	
0- 90	2378	45.5	100.0	
90-180	0	0.0	0.0	
0-180	2378	45.5	100.0	

TOTAL LUMINAIRE EFFICIENCY: 45.5%
CIE TYPE: DIRECT
PLANE: 0-DEG 90-DEG
SPACING CRITERIA: 1.2 1.1
LUMINOUS LENGTH: 48.000 2.875

LUMINANCE IN CANDELA PER SQUARE METER			
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	12770.	12770.	12770.
45	11102.	8545.	7592.
55	9262.	6520.	5189.
65	5900.	4544.	3720.
75	3385.	4036.	3688.
85	1675.	4124.	3737.



Approved By: MG



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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	
0	54	54	54	54	53	53	53	53	51	51	51	48	48	48	46	46	46	46
1	50	49	47	46	49	48	46	45	46	45	44	44	43	42	42	42	41	40
2	47	44	41	39	46	43	40	38	41	39	38	40	38	37	39	37	36	35
3	43	39	36	34	42	39	36	33	37	35	33	36	34	32	35	33	32	31
4	40	35	32	29	39	35	32	29	34	31	29	33	30	28	32	30	28	27
5	37	32	28	26	36	31	28	25	30	27	25	30	27	25	29	27	25	24
6	34	29	25	23	34	28	25	23	28	25	22	27	24	22	26	24	22	21
7	32	26	23	20	31	26	22	20	25	22	20	25	22	20	24	21	20	19
8	29	24	20	18	29	23	20	17	23	20	17	22	19	17	22	19	17	16
9	27	21	18	15	27	21	18	15	21	17	15	20	17	15	20	17	15	14
10	25	19	16	14	25	19	16	14	19	16	14	18	16	14	18	15	13	13

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1137	1137	1137	1137	1137
5	1131	1129	1133	1126	1129
10	1115	1112	1110	1098	1099
15	1088	1081	1074	1060	1060
20	1051	1039	1027	1004	999
25	1003	987	964	922	907
30	944	923	875	811	793
35	874	844	762	694	678
40	792	743	643	591	577
45	699	631	538	492	478
50	594	513	434	388	370
55	473	401	333	283	265
60	343	299	244	198	185
65	222	216	171	146	140
70	134	148	123	113	108
75	78	94	93	88	85
80	39	55	64	61	59
85	13	27	32	30	29
90	0	2	4	6	6

ZONAL LUMEN SUMMARY

0- 5	27.
5- 10	80.
10- 15	129.
15- 20	173.
20- 25	208.
25- 30	232.
30- 35	241.
35- 40	239.
40- 45	228.
45- 50	206.
50- 55	174.
55- 60	137.
60- 65	103.
65- 70	76.
70- 75	56.
75- 80	39.
80- 85	23.
85- 90	7.

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.