



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: 12717

DATE: 02-28-2008

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: MLS-D1-4-X-PBW-X-120-T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, 30 CELL, 3/4" DEEP, FORMED WHITE ENAMEL ALUMINUM BAFFLE.

LAMP: ONE 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMP RATED AT 4400 LUMENS.

LAMP CATALOG NUMBER: PHILIPS F54T5/850/HO/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES BB254PUNV-D

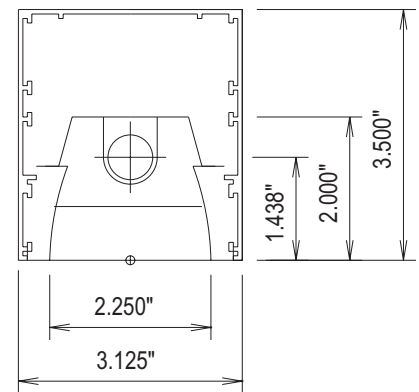
MOUNTING: PENDANT

LUMEN TO CANDELA RATIO USED = 9.18

TOTAL INPUT WATTS = 52.2 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

#12717



CANDELA DISTRIBUTION						FLUX
	0.0	22.5	45.0	67.5	90.0	
0	1100	1100	1100	1100	1100	
5	1089	1090	1101	1098	1099	104
15	1000	1011	1047	1077	1089	295
25	870	892	953	1003	1027	437
35	715	746	797	813	827	488
45	534	571	573	544	545	430
55	340	362	338	332	343	308
65	162	165	183	192	202	182
75	85	85	89	96	100	97
85	20	20	22	23	25	25
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	836	19.0	35.4	
0- 40	1324	30.1	56.0	
0- 60	2061	46.8	87.2	
0- 90	2364	53.7	100.0	
90-180	0	0.0	0.0	
0-180	2364	53.7	100.0	

TOTAL LUMINAIRE EFFICIENCY: 53.7%

CIE TYPE: DIRECT

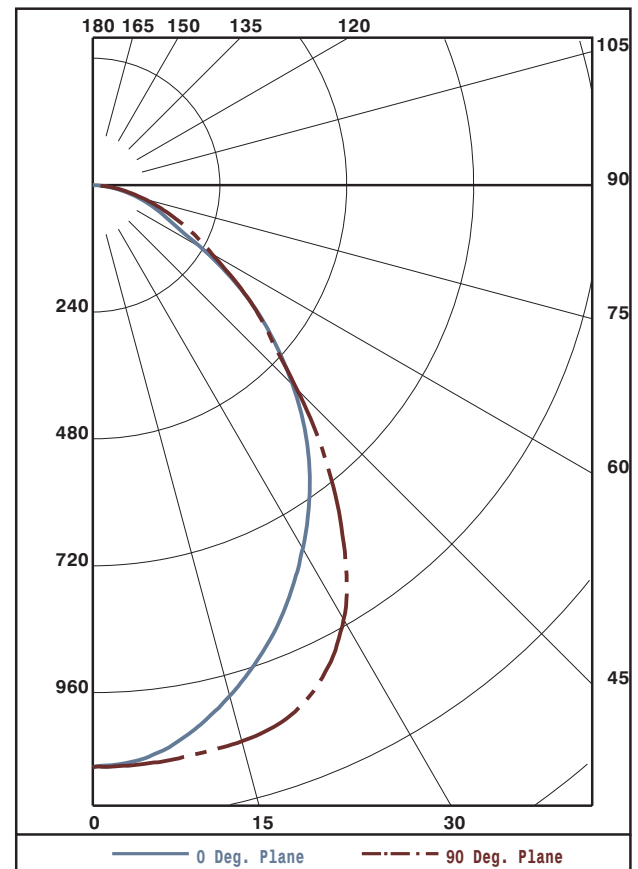
PLANE: 0-DEG 90-DEG

SPACING CRITERIA: 1.1 1.3

SHIELDING ANGLES: 29 43

LUMINOUS LENGTH: 44.875 2.250

LUMINANCE IN CANDELA PER SQUARE METER				
ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG	
0	16885.	16885.	16885.	
45	11592.	12439.	11831.	
55	9099.	9046.	9179.	
65	5884.	6647.	7337.	
75	5041.	5278.	5931.	
85	3522.	3875.	4403.	



Approved By: MG

THIS REPORT BASED ON LM-41 AND OTHER PERTINENT IESNA PROCEDURES.



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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	64	64	64	64	63	63	63	63	60	60	60	57	57	57	55	55	55	54
1	60	58	56	54	58	56	55	53	54	53	51	52	51	50	50	49	48	47
2	55	52	49	46	54	51	48	45	49	46	44	47	45	43	45	44	43	41
3	51	46	43	40	50	46	42	39	44	41	39	43	40	38	41	39	38	36
4	47	42	38	35	46	41	37	34	40	37	34	39	36	34	38	35	33	32
5	44	38	33	30	43	37	33	30	36	32	30	35	32	29	34	31	29	28
6	41	34	30	27	40	34	29	26	33	29	26	32	29	26	31	28	26	25
7	38	31	27	23	37	30	26	23	30	26	23	29	26	23	28	25	23	22
8	35	28	24	21	34	27	23	21	27	23	20	26	23	20	26	22	20	19
9	32	25	21	18	31	25	21	18	24	21	18	24	20	18	23	20	18	17
10	30	23	19	16	29	23	19	16	22	18	16	22	18	16	21	18	16	15

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	1100	1100	1100	1100	1100
5	1089	1090	1101	1098	1099
10	1053	1059	1081	1090	1094
15	1000	1011	1047	1077	1089
20	939	956	1005	1052	1073
25	870	892	953	1003	1027
30	794	821	885	924	949
35	715	746	797	813	827
40	628	663	693	680	688
45	534	571	573	544	545
50	438	470	451	419	432
55	340	362	338	332	343
60	237	253	252	253	260
65	162	165	183	192	202
70	122	122	129	141	147
75	85	85	89	96	100
80	51	51	53	57	59
85	20	20	22	23	25
90	0	0	0	0	0

ZONAL LUMEN SUMMARY

0- 5	26.
5- 10	78.
10- 15	126.
15- 20	169.
20- 25	205.
25- 30	231.
30- 35	245.
35- 40	243.
40- 45	228.
45- 50	201.
50- 55	171.
55- 60	137.
60- 65	103.
65- 70	78.
70- 75	58.
75- 80	39.
80- 85	20.
85- 90	5.

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.