



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: 10596

DATE: 11-07-2006

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: 0505P-02-R-4-OP/PRFP-X-120T5HO

LUMINAIRE: EXTRUDED ALUMINUM HOUSING, FORMED SPECULAR ALUMINUM REFLECTOR, FROSTED PATTERNED ACRYLIC LOWER ENCLOSURE, OPEN TOP.

LAMPS: TWO 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.

LAMP CATALOG NUMBER: PHILIPS F54T5/841/HO/ALTO

BALLAST: ONE UNIVERSAL LIGHTING TECHNOLOGIES B254PUNV-D

MOUNTING: WALL

LUMEN TO CANDELA RATIO USED = 9.18

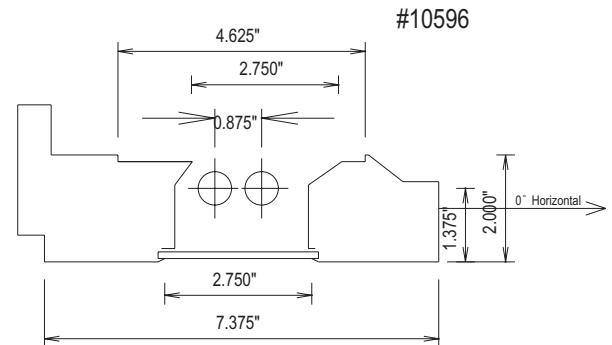
TOTAL INPUT WATTS =115.5 AT 120.0 VOLTS

THE 0 DEGREE PLANE IS PERPENDICULAR TO THE LAMPS.

CANDELA DISTRIBUTION										FLUX
	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	
0	818	818	818	818	818	818	818	818	818	
5	837	836	838	821	818	802	798	789	784	77
15	857	853	840	806	783	763	747	742	732	223
25	822	819	802	754	715	684	675	672	671	338
35	732	725	704	655	612	585	586	595	595	400
45	598	583	564	523	478	458	468	474	472	395
55	429	418	404	376	344	328	337	341	338	327
65	265	254	251	233	214	200	206	206	204	222
75	117	114	112	104	102	92	89	86	79	109
85	20	22	16	20	16	15	9	7	3	18
90	0	0	0	0	0	0	0	0	0	
95	38	63	57	95	39	0	0	0	0	45
105	429	491	506	503	244	273	213	3	0	325
115	933	999	971	821	464	494	512	499	507	676
125	1365	1344	1241	1040	672	697	725	764	784	845
135	1566	1578	1444	1139	863	938	958	933	948	882
145	1724	1668	1538	1331	1024	1174	1070	1126	1152	813
155	1703	1605	1506	1500	1156	1305	1324	1218	1231	641
165	1624	1638	1633	1476	1251	1320	1417	1430	1441	413
175	1514	1452	1417	1343	1293	1292	1324	1347	1344	133
180	1299	1299	1299	1299	1299	1299	1299	1299	1299	

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	%LAMP	%FIXT
0- 30	639	7.3	9.3
0- 40	1039	11.8	15.1
0- 60	1761	20.0	25.6
0- 90	2110	24.0	30.7
90-120	1046	11.9	15.2
90-130	1891	21.5	27.5
90-150	3586	40.8	52.1
90-180	4772	54.2	69.3
0-180	6882	78.2	100.0

TOTAL LUMINAIRE EFFICIENCY: 78.2%
 CIE TYPE: SEMI-INDIRECT
 PLANE: 0-DEG 90-DEG 180-DEG
 SPACING CRITERIA: 1.4 1.2 1.2



Approved By: MG

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



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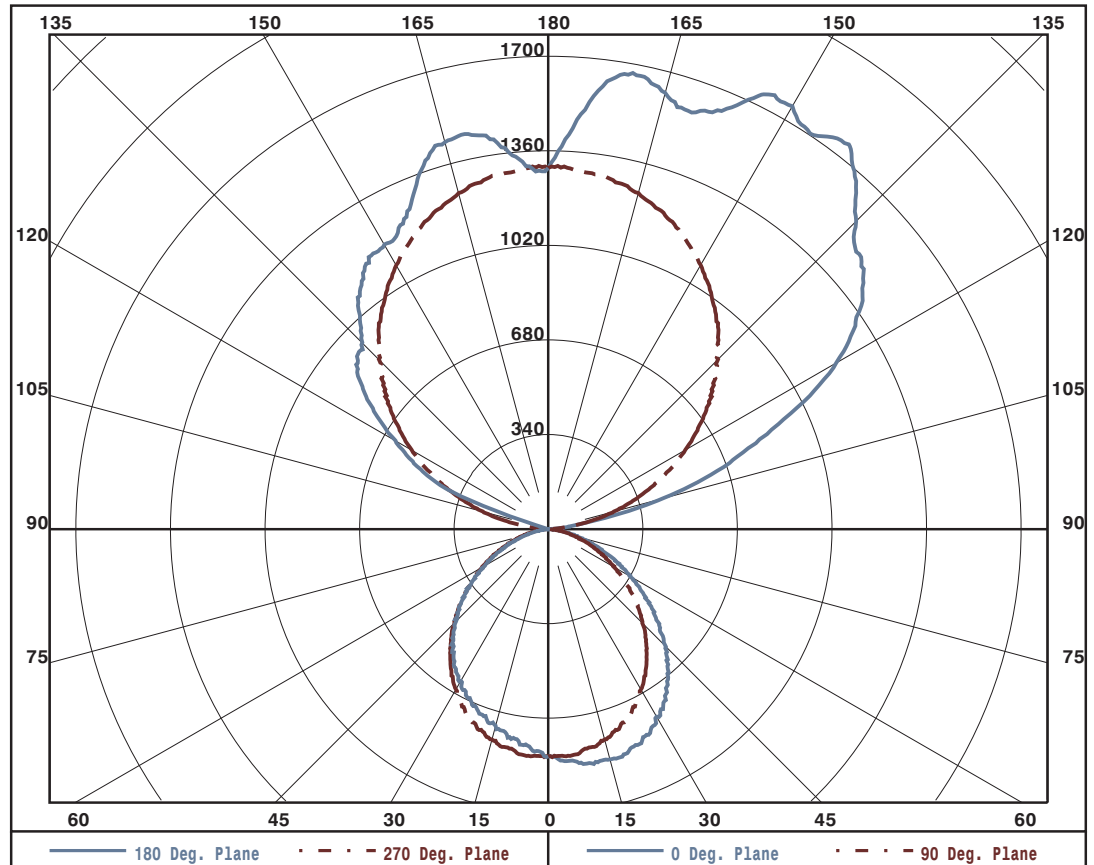
ZONAL LUMEN SUMMARY

0- 5	20.
5- 10	58.
10- 15	95.
15- 20	129.
20- 25	158.
25- 30	181.
30- 35	197.
35- 40	203.
40- 45	202.
45- 50	192.
50- 55	175.
55- 60	152.
60- 65	125.
65- 70	97.
70- 75	68.
75- 80	41.
80- 85	17.
85- 90	2.
90- 95	3.
95-100	43.
100-105	116.
105-110	208.
110-115	306.
115-120	370.
120-125	410.
125-130	435.
130-135	441.
135-140	441.
140-145	424.
145-150	389.
150-155	346.
155-160	295.
160-165	239.
165-170	174.
170-175	101.
175-180	32.

PLANE: 0-DEG 90-DEG
 LUMINOUS LENGTH: 2.750 43.875

LUMINANCE IN CANDELA PER SQUARE METER

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
0	10508.	10508.	10508.
45	10863.	10246.	8683.
55	9608.	9048.	7704.
65	8055.	7629.	6505.
75	5807.	5559.	5062.
85	2948.	2358.	2358.





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CANDELA DISTRIBUTION

Table with 10 columns representing candela values at different angles (0.0 to 180.0) and 20 rows representing different beam diameters (0 to 180).



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

Table with columns for RC, RW, and various cavity dimensions (80, 70, 50, 30, 10, 0) and rows for different heights (0-10).

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.