



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PS4WA354UNIV.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [ISSUE DATE]05/19/08  
 [TEST]ITL60325  
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.  
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS  
 [LUMINAIRE]PS4WA354UNIV  
 [LUMINAIRE]POWER STRIP WHITE REFL. 4' 54W T5HO 3-LAMP  
 [LAMP](3) 54-WATT T-5HO SYLVANIA LINEAR FLUORESCENTS  
 [BALLAST]UNIVERSAL B454PUNV-E  
 [\_ MOUNTING]SURFACE  
 [\_ PAINT REFL]90.0 %  
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
 [OTHER]TOTAL INPUT WATTS = 182 AT 120.0 VOLTS  
 [OTHER]LUMEN TO CANDELA RATIO USED = 9.17

**CHARACTERISTICS**

Total Rated Lamp Lumens	13350 (3 lamps)
Total Luminaire Efficiency	92.8 %
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	182
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.30
Spacing Criteria (90-270)	1.30
Spacing Criteria (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.99 ft
Luminous Height	0.09 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9829	9423	9977
55	9711	9522	10491
65	9433	9836	10372
75	8532	8968	9231
85	3707	8047	10526

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PS4WA354UNIV.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	3726	3726	3726	3726	3726
<b>2.5</b>	3739	3735	3717	3704	3702
<b>5.0</b>	3727	3722	3702	3689	3689
<b>7.5</b>	3705	3703	3681	3667	3667
<b>10.0</b>	3681	3674	3651	3639	3638
<b>12.5</b>	3647	3638	3616	3603	3596
<b>15.0</b>	3601	3593	3573	3555	3550
<b>17.5</b>	3555	3546	3522	3505	3503
<b>20.0</b>	3500	3487	3460	3450	3452
<b>22.5</b>	3438	3427	3395	3394	3398
<b>25.0</b>	3372	3361	3328	3335	3340
<b>27.5</b>	3302	3288	3256	3273	3283
<b>30.0</b>	3223	3199	3179	3206	3225
<b>32.5</b>	3134	3110	3098	3141	3165
<b>35.0</b>	3039	3011	3011	3073	3108
<b>37.5</b>	2939	2900	2912	3006	3044
<b>40.0</b>	2838	2796	2826	2938	2978
<b>42.5</b>	2733	2685	2735	2860	2902
<b>45.0</b>	2615	2569	2646	2783	2829
<b>47.5</b>	2498	2450	2550	2700	2750
<b>50.0</b>	2380	2315	2452	2612	2667
<b>52.5</b>	2250	2186	2345	2525	2589
<b>55.0</b>	2115	2052	2237	2437	2498
<b>57.5</b>	1984	1910	2133	2342	2391
<b>60.0</b>	1830	1774	2019	2220	2242
<b>62.5</b>	1689	1642	1911	2073	2081
<b>65.0</b>	1537	1499	1789	1905	1923
<b>67.5</b>	1377	1365	1639	1738	1744
<b>70.0</b>	1236	1241	1474	1568	1571
<b>72.5</b>	1046	1104	1291	1369	1345
<b>75.0</b>	880	981	1106	1156	1173
<b>77.5</b>	694	825	894	1003	1033
<b>80.0</b>	507	649	738	862	889
<b>82.5</b>	318	473	603	738	780
<b>85.0</b>	149	323	491	644	683
<b>87.5</b>	26	227	399	544	579
<b>90.0</b>	0	147	321	449	495
<b>92.5</b>	0	41	208	301	388
<b>95.0</b>	0	11	89	145	229
<b>97.5</b>	0	5	12	37	113
<b>100.0</b>	0	2	1	0	5
<b>102.5</b>	0	0	0	0	0
<b>105.0</b>	0	0	0	0	0
<b>107.5</b>	0	0	0	0	0
<b>110.0</b>	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0
<b>115.0</b>	0	0	0	0	0
<b>117.5</b>	0	0	0	0	0
<b>120.0</b>	0	0	0	0	0
<b>122.5</b>	0	0	0	0	0
<b>125.0</b>	0	0	0	0	0
<b>127.5</b>	0	0	0	0	0
<b>130.0</b>	0	0	0	0	0
<b>132.5</b>	0	0	0	0	0

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PS4WA354UNIV.IES

CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0
137.5	0	0	0	0	0
140.0	0	0	0	0	0
142.5	0	0	0	0	0
145.0	0	0	0	0	0
147.5	0	0	0	0	0
150.0	0	0	0	0	0
152.5	0	0	0	0	0
155.0	0	0	0	0	0
157.5	0	0	0	0	0
160.0	0	0	0	0	0
162.5	0	0	0	0	0
165.0	0	0	0	0	0
167.5	0	0	0	0	0
170.0	0	0	0	0	0
172.5	0	0	0	0	0
175.0	0	0	0	0	0
177.5	0	0	0	0	0
180.0	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PS4WA354UNIV.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	2904.57	21.8	23.4
0-40	4809.15	36	38.8
0-60	8895.81	66.6	71.8
0-90	12263.57	91.9	99
90-120	123.24	.9	1
90-130	123.24	.9	1
90-150	123.24	.9	1
90-180	123.24	.9	1
0-180	12386.8	92.8	100

Total Luminaire Efficiency = 92.8%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	352.13
10-20	1009.36
20-30	1543.08
30-40	1904.58
40-50	2068.82
50-60	2017.84
60-70	1708.77
70-80	1130.06
80-90	528.93
90-100	123.05
100-110	.18
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

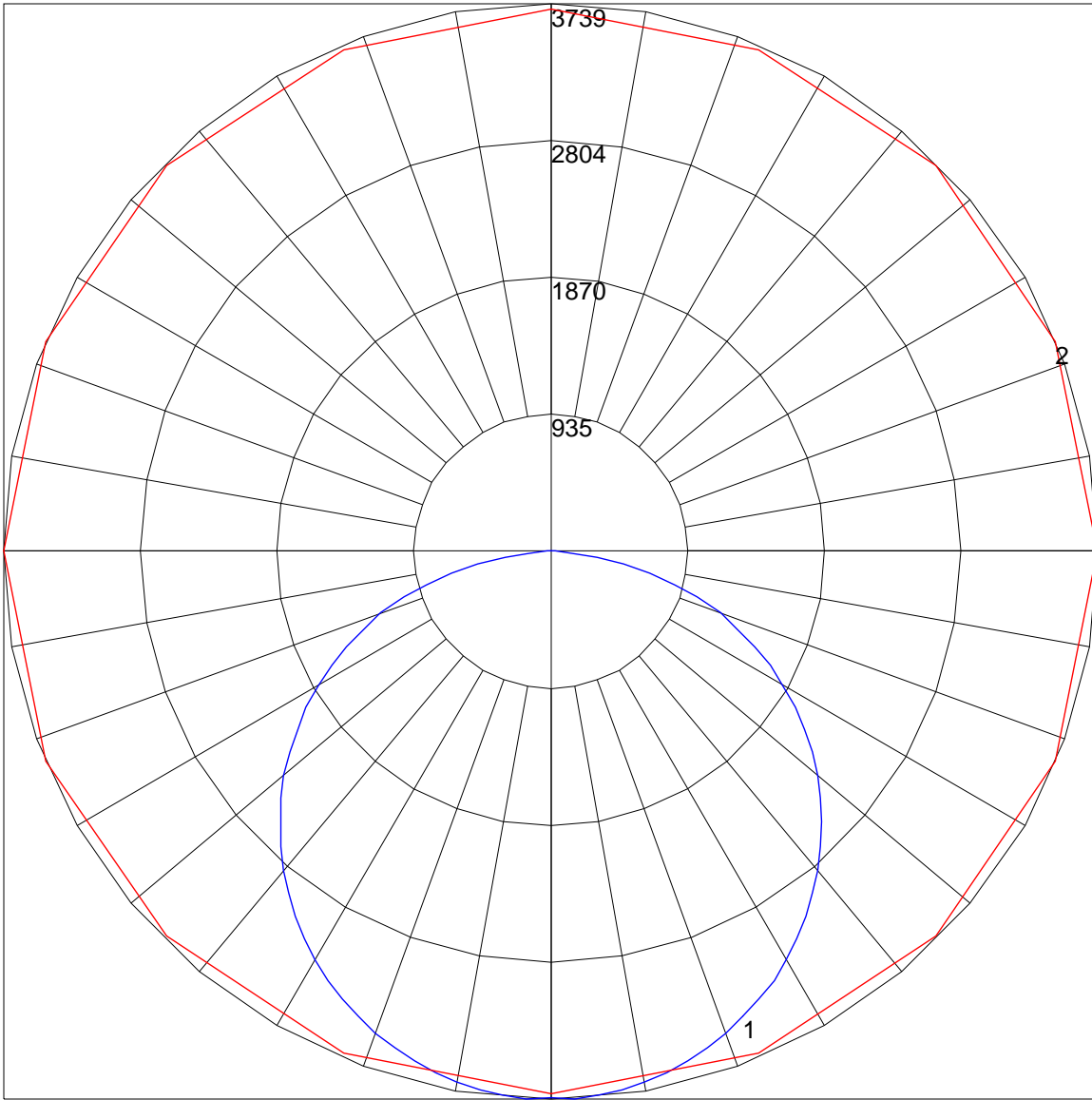
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PS4WA354UNIV.IES**

**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	110	110	110	110	108	108	108	108	103	103	103	98	98	98	94	94	94	92
1	99	94	90	86	97	92	88	84	88	84	81	84	81	79	80	78	76	74
2	90	81	74	68	87	79	73	67	76	70	66	72	68	64	69	66	62	60
3	81	71	62	56	79	69	61	55	66	59	54	63	58	53	61	56	52	50
4	74	62	53	47	72	61	53	46	58	51	46	56	50	45	54	48	44	42
5	68	55	46	40	66	54	46	40	52	45	39	50	44	39	48	42	38	36
6	62	50	41	35	61	49	40	34	47	39	34	45	39	34	43	38	33	31
7	58	45	36	30	56	44	36	30	42	35	30	41	34	30	40	34	29	27
8	54	41	33	27	52	40	32	27	39	32	27	37	31	26	36	30	26	24
9	50	37	29	24	49	37	29	24	36	29	24	34	28	24	33	28	23	22
10	47	34	27	22	46	34	27	22	33	26	22	32	26	21	31	25	21	20

POLAR GRAPH



Maximum Candela = 3739 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)