



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PS4SA354UNIV.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]10/31/07
 [TEST]ITL59445
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE CATEGORY]PS4SA354UNIV
 [LUMINAIRE]POWER STRIP MIRO4 4' 54w T5HO 3-LAMP
 [LAMP] (3) 54-WATT T-5HO LINEAR FLUORESCENTS
 [BALLAST]QTP4X54T5HO/UNV PSN HT W
 [MOUNTING]SURFACE
 [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	100.1 %
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	182
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.76
Spacing Criteria (Diagonal)	0.98
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	15062	8076	9024
55	13930	8416	10974
65	12084	10193	10496
75	9066	8198	7775
85	2861	6588	8738

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	6223	6223	6223	6223	6223
2.5	6237	6237	6175	6137	6129
5.0	6214	6187	6080	5999	5961
7.5	6183	6106	5930	5754	5677
10.0	6122	6011	5700	5459	5348
12.5	6045	5884	5444	5114	4973
15.0	5969	5723	5156	4758	4589
17.5	5877	5540	4850	4398	4252
20.0	5769	5325	4540	4080	3892
22.5	5654	5133	4245	3747	3517
25.0	5524	4888	3961	3379	3195
27.5	5363	4612	3620	3069	2973
30.0	5210	4360	3314	2900	2896
32.5	5041	4084	3015	2804	2804
35.0	4858	3804	2743	2716	2728
37.5	4658	3501	2597	2624	2643
40.0	4452	3233	2482	2544	2628
42.5	4237	2961	2375	2521	2605
45.0	4007	2682	2268	2486	2559
47.5	3785	2390	2176	2433	2536
50.0	3532	2122	2118	2398	2528
52.5	3295	1889	2057	2383	2567
55.0	3034	1720	1977	2406	2613
57.5	2781	1571	1923	2444	2574
60.0	2505	1437	1881	2371	2398
62.5	2230	1310	1885	2184	2191
65.0	1969	1191	1854	1958	1946
67.5	1709	1107	1697	1720	1701
70.0	1448	1011	1486	1467	1433
72.5	1180	942	1253	1214	1188
75.0	935	908	1011	985	988
77.5	697	782	785	827	858
80.0	475	594	613	716	751
82.5	276	391	502	613	651
85.0	115	261	402	525	567
87.5	15	180	341	467	506
90.0	0	136	285	404	441
92.5	0	48	213	323	370
95.0	0	15	69	180	234
97.5	0	10	11	44	74
100.0	0	7	3	2	8
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0
132.5	0	0	0	0	0

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3943.25	29.5	29.5
0-40	5994.48	44.9	44.9
0-60	10063.81	75.4	75.3
0-90	13242.8	99.2	99.1
90-120	122.47	.9	.9
90-130	122.47	.9	.9
90-150	122.47	.9	.9
90-180	122.47	.9	.9
0-180	13365.27	100.1	100

Total Luminaire Efficiency = 100.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	569.49
10-20	1465.4
20-30	1908.36
30-40	2051.23
40-50	2070.26
50-60	1999.07
60-70	1704.96
70-80	1028.71
80-90	445.32
90-100	121.93
100-110	.54
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

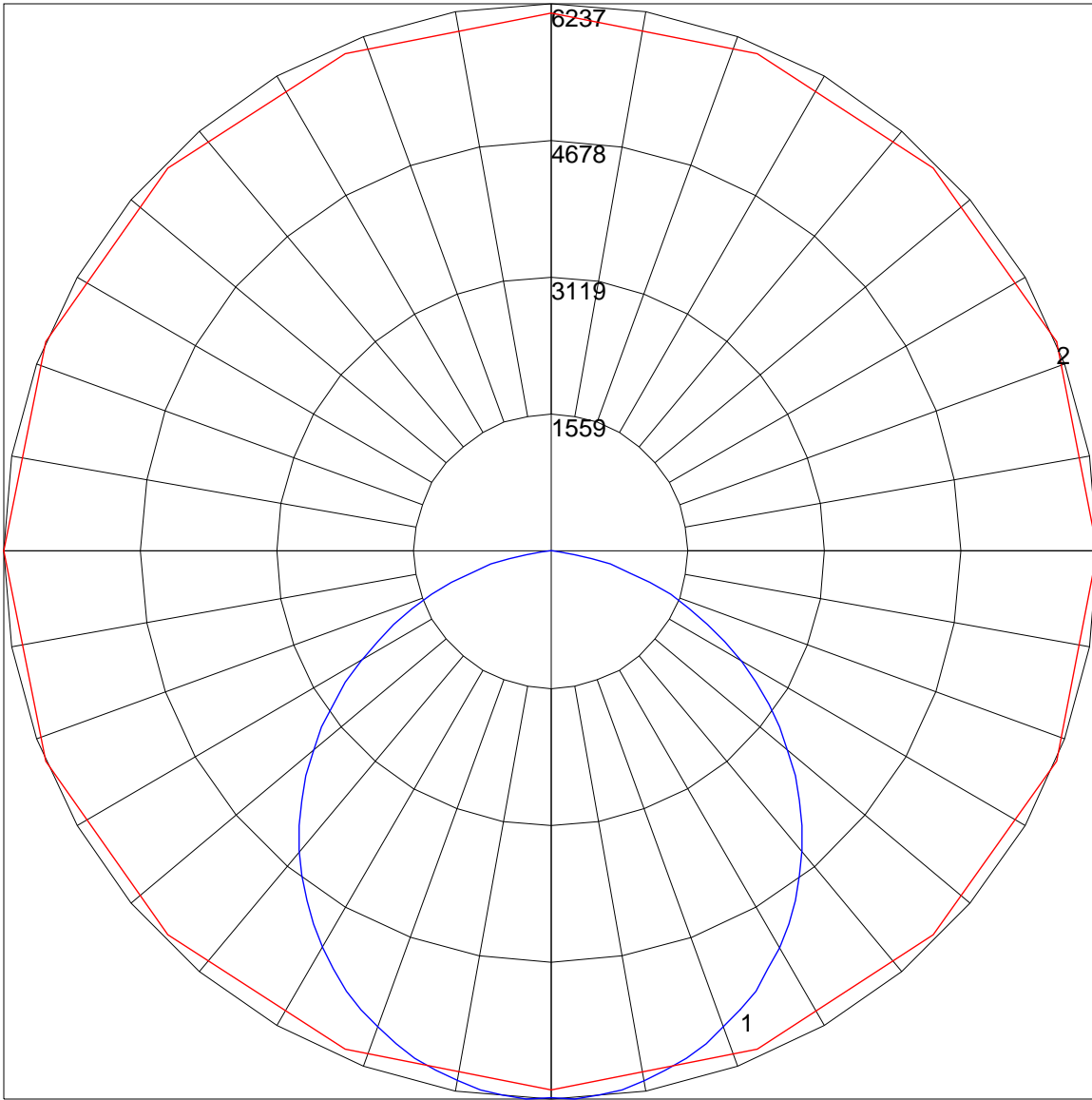
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	74	70	68
3	90	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	45	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	54	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 6237 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.)