



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AL4254UNIV.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]ITL60075  
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
 [ISSUE DATE]03/24/08  
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS  
 [LUMCAT]AL4254UNIV  
 [LUMINAIRE]AISLE LIGHTER 4' 54W T5HO 2-LAMP  
 [LAMP](2) 54-WATT T-5 LINEAR FLUORESCENTS  
 [BALLAST]SYLVANIA QTP2X54T5HO/UNV PSN HT  
 [OTHER]TOTAL INPUT WATTS = 120 AT 120.0 VOLTS  
 [MOUNTING]SUSPENDED  
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.19

**CHARACTERISTICS**

Total Rated Lamp Lumens	8900 (2 lamps)
Total Luminaire Efficiency	99.4 %
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	120
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.76
Spacing Criteria (Diagonal)	1.04
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.21 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12741	7052	7696
55	11798	7110	5805
65	10271	5043	4396
75	7622	3039	1891
85	2216	117	0

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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>
<b>0.0</b>	4356	4356	4356	4356	4356
<b>2.5</b>	4363	4366	4379	4396	4413
<b>5.0</b>	4346	4388	4471	4493	4482
<b>7.5</b>	4320	4417	4427	4222	4138
<b>10.0</b>	4285	4440	4157	3800	3690
<b>12.5</b>	4239	4389	3817	3424	3344
<b>15.0</b>	4185	4263	3501	3224	3141
<b>17.5</b>	4122	4052	3258	2985	2864
<b>20.0</b>	4049	3818	3090	2746	2682
<b>22.5</b>	3968	3567	2872	2578	2513
<b>25.0</b>	3878	3320	2671	2450	2437
<b>27.5</b>	3780	3083	2502	2362	2294
<b>30.0</b>	3673	2896	2340	2214	2210
<b>32.5</b>	3558	2750	2247	2154	2189
<b>35.0</b>	3434	2583	2150	2135	2182
<b>37.5</b>	3304	2394	1994	2114	2172
<b>40.0</b>	3166	2198	1927	2094	2150
<b>42.5</b>	3020	2028	1886	2082	2118
<b>45.0</b>	2868	1868	1844	2023	2077
<b>47.5</b>	2711	1706	1802	1974	2029
<b>50.0</b>	2546	1604	1752	1937	1893
<b>52.5</b>	2376	1486	1692	1748	1597
<b>55.0</b>	2201	1348	1626	1467	1384
<b>57.5</b>	2023	1251	1552	1290	1260
<b>60.0</b>	1837	1173	1375	1154	1147
<b>62.5</b>	1651	1101	1105	1047	1034
<b>65.0</b>	1462	1025	953	920	878
<b>67.5</b>	1272	944	835	760	714
<b>70.0</b>	1082	858	727	604	589
<b>72.5</b>	898	749	580	530	549
<b>75.0</b>	715	535	436	397	293
<b>77.5</b>	543	414	377	118	40
<b>80.0</b>	376	314	146	1	0
<b>82.5</b>	222	223	19	0	0
<b>85.0</b>	94	103	11	0	0
<b>87.5</b>	17	42	5	0	0
<b>90.0</b>	0	20	0	0	0
<b>92.5</b>	0	21	0	0	0
<b>95.0</b>	0	14	0	0	0
<b>97.5</b>	0	5	0	0	0
<b>100.0</b>	0	2	0	0	0
<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

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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	2774.85	31.2	31.4
0-40	4284.69	48.1	48.4
0-60	7279.48	81.8	82.3
0-90	8841.94	99.3	100
90-120	3.55	0	0
90-130	3.55	0	0
90-150	3.55	0	0
90-180	3.55	0	0
0-180	8845.49	99.4	100

Total Luminaire Efficiency = 99.4%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	411.59
10-20	1025.53
20-30	1337.73
30-40	1509.84
40-50	1584.88
50-60	1409.91
60-70	1008.12
70-80	492.91
80-90	61.43
90-100	3.49
100-110	.07
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

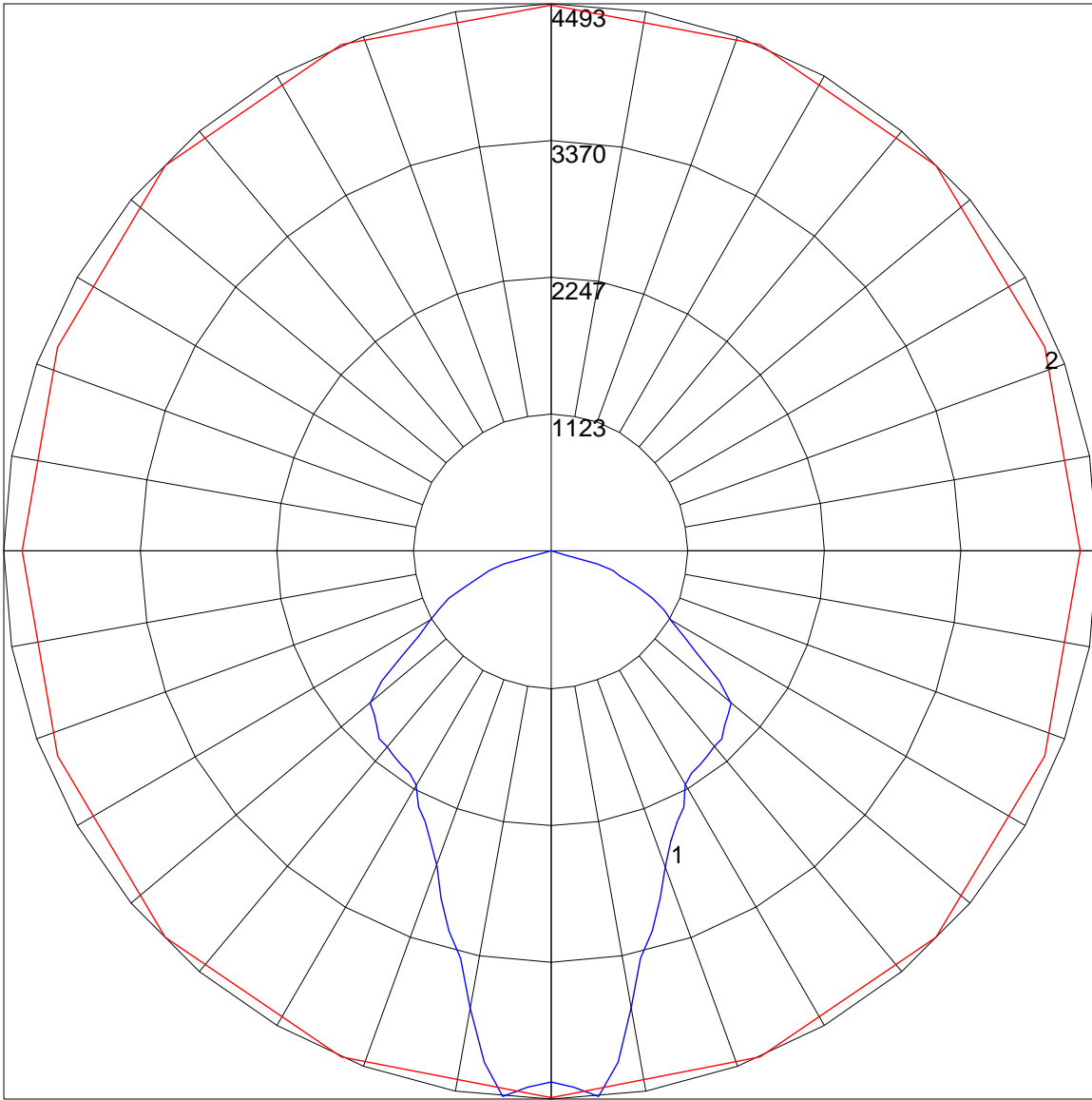
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	118	118	118	118	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	49	58	52	48	46
6	71	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	66	53	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	60	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	34	29	39	33	29	38	33	29	27

POLAR GRAPH



Maximum Candela = 4493 Located At Horizontal Angle = 67.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)