



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AL4154UNIV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ITL60073
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [ISSUE DATE]03/21/08
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE CATEGORY]AL4154UNIV
 [LUMINAIRE]AISLE LIGHTER 4' 54W T5HO 1-LAMP
 [LAMP](1) 54-WATT T-5 LINEAR FLUORESCENT
 [BALLAST]SYLVANIA QTP2X54T5HO/UNV PSN HT
 [OTHER]TOTAL INPUT WATTS = 62 AT 120.0 VOLTS
 [MOUNTING]SUSPENDED
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMP.
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.19

CHARACTERISTICS

Total Rated Lamp Lumens	4450
Total Luminaire Efficiency	100.2 %
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	62
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	0.76
Spacing Criteria (Diagonal)	1.02
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	6499	3281	3724
55	5885	3437	4094
65	4890	3472	2554
75	3262	2126	97
85	637	53	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>
0.0	2233	2233	2233	2233	2233
2.5	2241	2215	2167	2126	2111
5.0	2233	2148	1982	1859	1831
7.5	2219	2045	1812	1893	1930
10.0	2200	1914	1896	1941	1886
12.5	2177	1796	1938	1726	1676
15.0	2149	1784	1785	1675	1695
17.5	2116	1823	1634	1681	1647
20.0	2078	1852	1635	1521	1385
22.5	2036	1815	1617	1287	1198
25.0	1989	1697	1503	1148	1143
27.5	1939	1572	1274	1131	1126
30.0	1883	1464	1118	1084	1056
32.5	1825	1429	1040	1020	1016
35.0	1761	1390	1057	987	1013
37.5	1693	1335	971	981	1011
40.0	1620	1239	908	974	1009
42.5	1544	1079	871	976	1007
45.0	1463	921	858	963	1005
47.5	1377	813	837	956	1002
50.0	1288	748	820	960	1000
52.5	1195	720	803	943	996
55.0	1098	653	786	935	976
57.5	1001	587	769	910	819
60.0	900	540	752	724	600
62.5	799	507	732	519	510
65.0	696	475	656	472	510
67.5	594	443	462	470	510
70.0	494	412	359	446	385
72.5	397	383	351	269	181
75.0	306	356	305	71	15
77.5	217	253	129	1	0
80.0	138	184	10	0	0
82.5	74	126	7	0	0
85.0	27	31	5	0	0
87.5	6	25	3	0	0
90.0	0	21	2	0	0
92.5	0	17	1	0	0
95.0	0	12	0	0	0
97.5	0	6	0	0	0
100.0	0	2	0	0	0
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	1378.75	31	30.9
0-40	2128.88	47.8	47.7
0-60	3650.28	82	81.8
0-90	4457.58	100.2	99.9
90-120	3.38	.1	.1
90-130	3.38	.1	.1
90-150	3.38	.1	.1
90-180	3.38	.1	.1
0-180	4460.96	100.2	100

Total Luminaire Efficiency = 100.2%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.13
10-20	507.58
20-30	680.03
30-40	750.13
40-50	773.67
50-60	747.73
60-70	541.59
70-80	238.96
80-90	26.74
90-100	3.31
100-110	.07
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

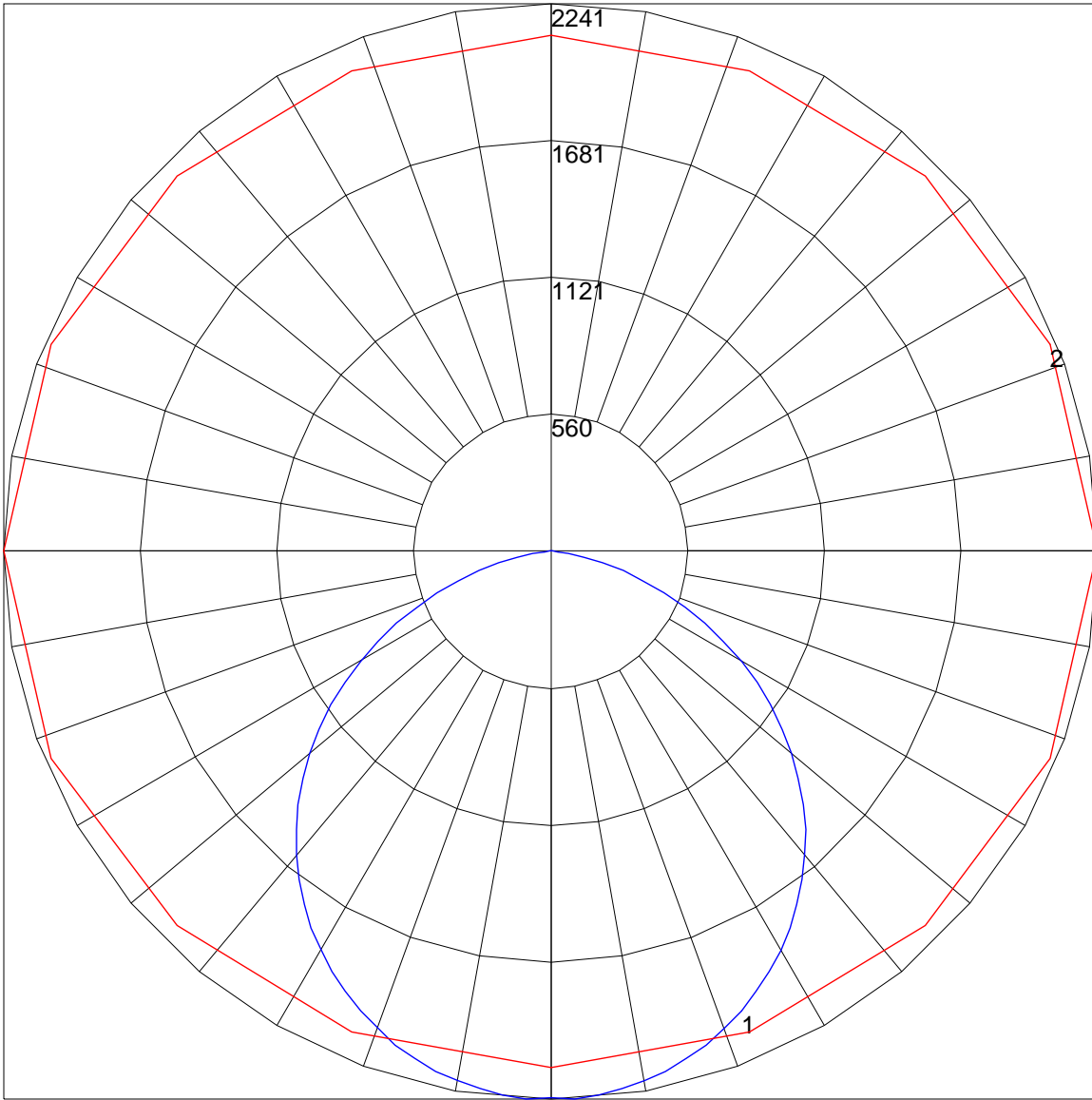
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	89	88	86
2	100	92	86	80	98	91	85	79	87	82	78	84	80	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

POLAR GRAPH



Maximum Candela = 2241 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.)