



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : EL4SA654UNIV.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [ISSUE]09/12/07  
 [TEST]ITL59227  
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS  
 [LUMCAT]EL4SA654UNIV  
 [LUMINAIRE]ELITE MIRO4 4' 54w T5HO 6-LAMP  
 [LAMP](6) 54-WATT T-5HO LINEAR FLUORESCENTS  
 [BALLAST]ONE SYLVANIA QTP4X54T5HO/UNV PSN HT W, ONE SYLVANIA  
 [MORE]QTP2X54T5HO/UNV PSN HT  
 [\_MOUNTING]SUSPENDED  
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.  
 [OTHER]TOTAL INPUT WATTS= 351 AT 120.0 VOLTS  
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

**CHARACTERISTICS**

Total Rated Lamp Lumens	26700 (6 lamps)
Total Luminaire Efficiency	97.2 %
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	351
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.04
Spacing Criteria (Diagonal)	1.18
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.08 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18953	12269	11092
55	17530	10418	13794
65	14980	12758	16560
75	10908	14101	15730
85	2896	11502	14089

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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>	10570	10570	10570	10570	10570
<b>2.5</b>	10594	10565	10495	10439	10417
<b>5.0</b>	10551	10498	10421	10414	10417
<b>7.5</b>	10467	10372	10386	10386	10368
<b>10.0</b>	10396	10297	10343	10308	10312
<b>12.5</b>	10276	10199	10209	10167	10114
<b>15.0</b>	10128	10089	10089	9917	9874
<b>17.5</b>	9973	9948	9850	9740	9754
<b>20.0</b>	9783	9768	9567	9560	9352
<b>22.5</b>	9578	9553	9381	9024	8718
<b>25.0</b>	9345	9342	9180	8435	8167
<b>27.5</b>	9105	9088	8753	7924	7462
<b>30.0</b>	8823	8760	8132	7141	6686
<b>32.5</b>	8534	8411	7628	6401	6052
<b>35.0</b>	8224	8065	7046	5812	5459
<b>37.5</b>	7878	7737	6298	5237	4895
<b>40.0</b>	7533	7420	5653	4708	4514
<b>42.5</b>	7173	7028	5099	4313	4274
<b>45.0</b>	6785	6485	4556	4063	4133
<b>47.5</b>	6390	5910	4063	3921	4147
<b>50.0</b>	5995	5360	3653	3918	4168
<b>52.5</b>	5572	4817	3375	3918	4246
<b>55.0</b>	5135	4179	3213	3985	4274
<b>57.5</b>	4690	3565	3153	3988	4175
<b>60.0</b>	4204	3043	3117	3869	4105
<b>62.5</b>	3745	2546	3128	3791	4119
<b>65.0</b>	3280	2144	3012	3780	3936
<b>67.5</b>	2821	1848	2885	3544	3576
<b>70.0</b>	2370	1672	2832	3153	3209
<b>72.5</b>	1933	1576	2592	2797	2856
<b>75.0</b>	1509	1488	2208	2451	2490
<b>77.5</b>	1107	1308	1866	2074	2130
<b>80.0</b>	726	1174	1502	1724	1777
<b>82.5</b>	395	857	1171	1354	1397
<b>85.0</b>	155	571	832	987	1044
<b>87.5</b>	14	286	490	642	684
<b>90.0</b>	0	106	285	432	459
<b>92.5</b>	0	2	107	194	244
<b>95.0</b>	0	0	3	53	85
<b>97.5</b>	0	0	0	0	0
<b>100.0</b>	0	0	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	7906.97	29.6	30.5
0-40	12238.58	45.8	47.1
0-60	19830.07	74.3	76.4
0-90	25891.46	97	99.7
90-120	71.87	.3	.3
90-130	71.87	.3	.3
90-150	71.87	.3	.3
90-180	71.87	.3	.3
0-180	25963.33	97.2	100

Total Luminaire Efficiency = 97.2%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	993.85
10-20	2827.23
20-30	4085.88
30-40	4331.61
40-50	3992.1
50-60	3599.39
60-70	3079.32
70-80	2138.99
80-90	843.08
90-100	71.87
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

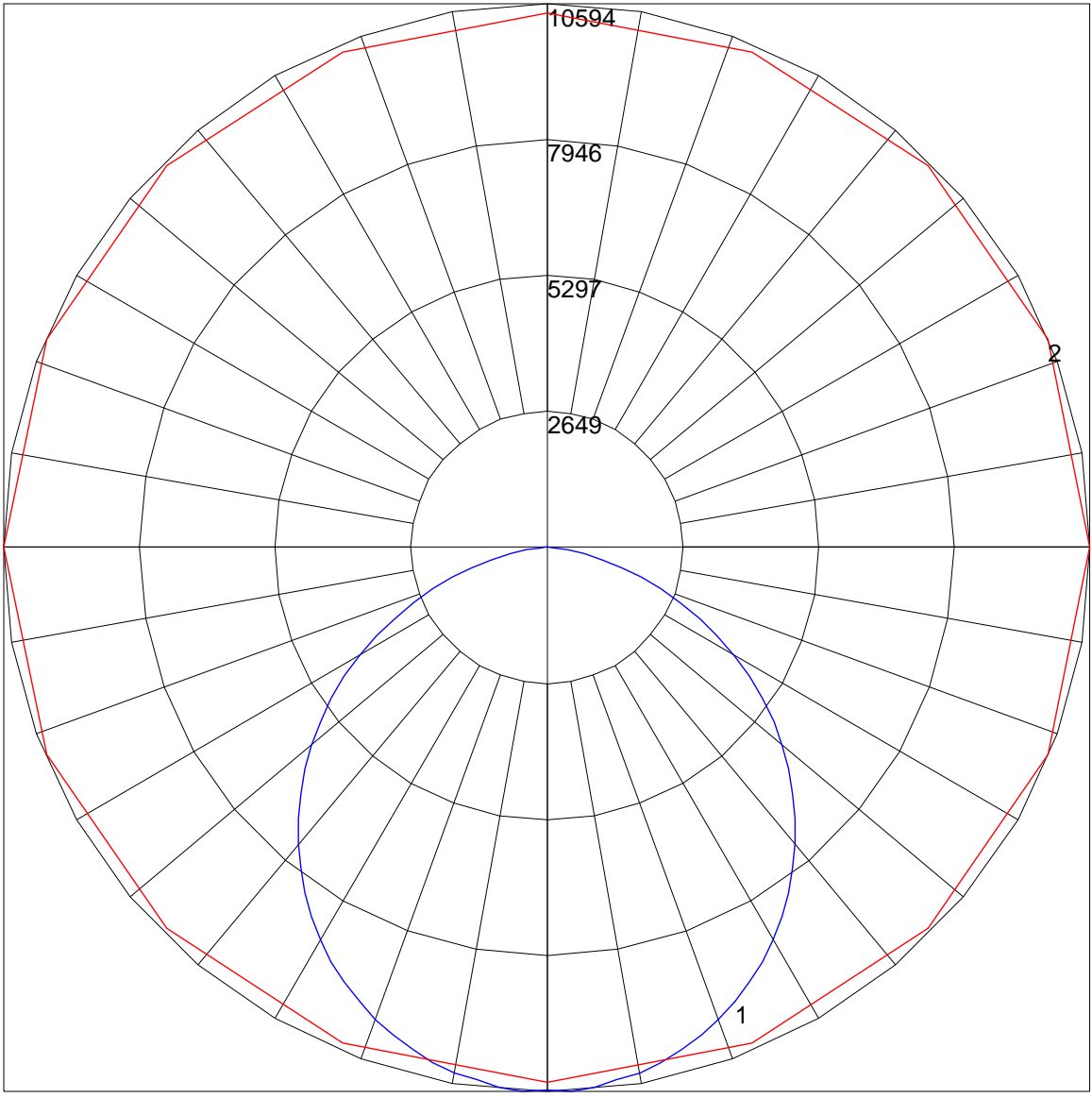
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	113	113	113	113	108	108	108	103	103	103	99	99	99	97
1	105	100	96	92	102	98	94	90	94	90	87	90	87	85	86	84	82	80
2	96	87	81	75	93	85	79	74	82	77	72	79	74	70	76	72	69	67
3	87	77	69	62	85	75	68	62	72	66	61	70	64	60	67	63	59	56
4	80	68	60	53	78	67	59	53	65	58	52	62	56	51	60	55	51	49
5	74	61	53	46	72	60	52	46	58	51	45	56	50	45	54	49	44	42
6	68	56	47	41	67	55	46	41	53	46	40	51	45	40	50	44	39	37
7	64	51	42	36	62	50	42	36	48	41	36	47	40	36	46	40	35	33
8	59	46	38	33	58	46	38	32	44	37	32	43	37	32	42	36	32	30
9	56	43	35	30	54	42	35	29	41	34	29	40	34	29	39	33	29	27
10	52	40	32	27	51	39	32	27	38	31	27	37	31	27	36	31	26	25

POLAR GRAPH



Maximum Candela = 10594 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.)