



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : EL4WA654UNIV.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]05/20/08
 [TEST]ITL60327
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE CATEGORY]EL4WA654UNIV
 [LUMINAIRE]ELITE WHITE REFL. 4' 54W T5HO 6-LAMP
 [LAMP] (6) 54-WATT T5HO LINEAR FLUORESCENTS
 [BALLAST] ONE UNIVERSAL B454PUNV-E, ONE SYLVANIA QTP 2X54T5HO/UNV PSN
 [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	87.2 %
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	351
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.28
Spacing Criteria (90-270)	1.38
Spacing Criteria (Diagonal)	1.48
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	12956	13656	14482
55	12515	13787	15440
65	11815	14605	16614
75	10012	15174	17164
85	3569	12373	14669

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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	6706	6706	6706	6706	6706
2.5	6735	6724	6709	6689	6682
5.0	6705	6701	6693	6686	6682
7.5	6674	6670	6682	6689	6697
10.0	6628	6628	6659	6674	6682
12.5	6552	6578	6624	6655	6666
15.0	6483	6513	6575	6613	6621
17.5	6399	6444	6517	6563	6575
20.0	6291	6356	6441	6494	6513
22.5	6177	6265	6353	6422	6444
25.0	6046	6154	6253	6334	6360
27.5	5909	6031	6138	6230	6261
30.0	5771	5905	6031	6135	6184
32.5	5603	5752	5878	6001	6062
35.0	5419	5572	5729	5874	5947
37.5	5235	5404	5572	5744	5817
40.0	5051	5231	5419	5622	5702
42.5	4837	5029	5231	5461	5541
45.0	4638	4837	5071	5312	5396
47.5	4393	4619	4879	5128	5220
50.0	4179	4405	4692	4975	5082
52.5	3949	4179	4485	4807	4944
55.0	3666	3903	4252	4623	4784
57.5	3414	3647	4037	4470	4608
60.0	3153	3406	3838	4298	4416
62.5	2870	3146	3636	4072	4187
65.0	2587	2878	3448	3827	3949
67.5	2304	2598	3199	3593	3712
70.0	1982	2308	2947	3326	3398
72.5	1691	2047	2675	3008	3077
75.0	1385	1818	2376	2656	2717
77.5	1049	1554	2047	2262	2311
80.0	742	1263	1661	1852	1906
82.5	429	964	1274	1454	1500
85.0	191	639	895	1056	1087
87.5	23	314	532	704	742
90.0	0	114	305	468	501
92.5	0	0	109	202	257
95.0	0	0	7	59	102
97.5	0	0	0	0	2
100.0	0	0	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	5369.85	20.1	23.1
0-40	8951.68	33.5	38.4
0-60	16663.86	62.4	71.5
0-90	23216.48	87	99.7
90-120	77.11	.3	.3
90-130	77.11	.3	.3
90-150	77.11	.3	.3
90-180	77.11	.3	.3
0-180	23293.58	87.2	100

Total Luminaire Efficiency = 87.2%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	637.89
10-20	1854.89
20-30	2877.07
30-40	3581.83
40-50	3900.98
50-60	3811.2
60-70	3312.74
70-80	2325.31
80-90	914.57
90-100	77.11
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

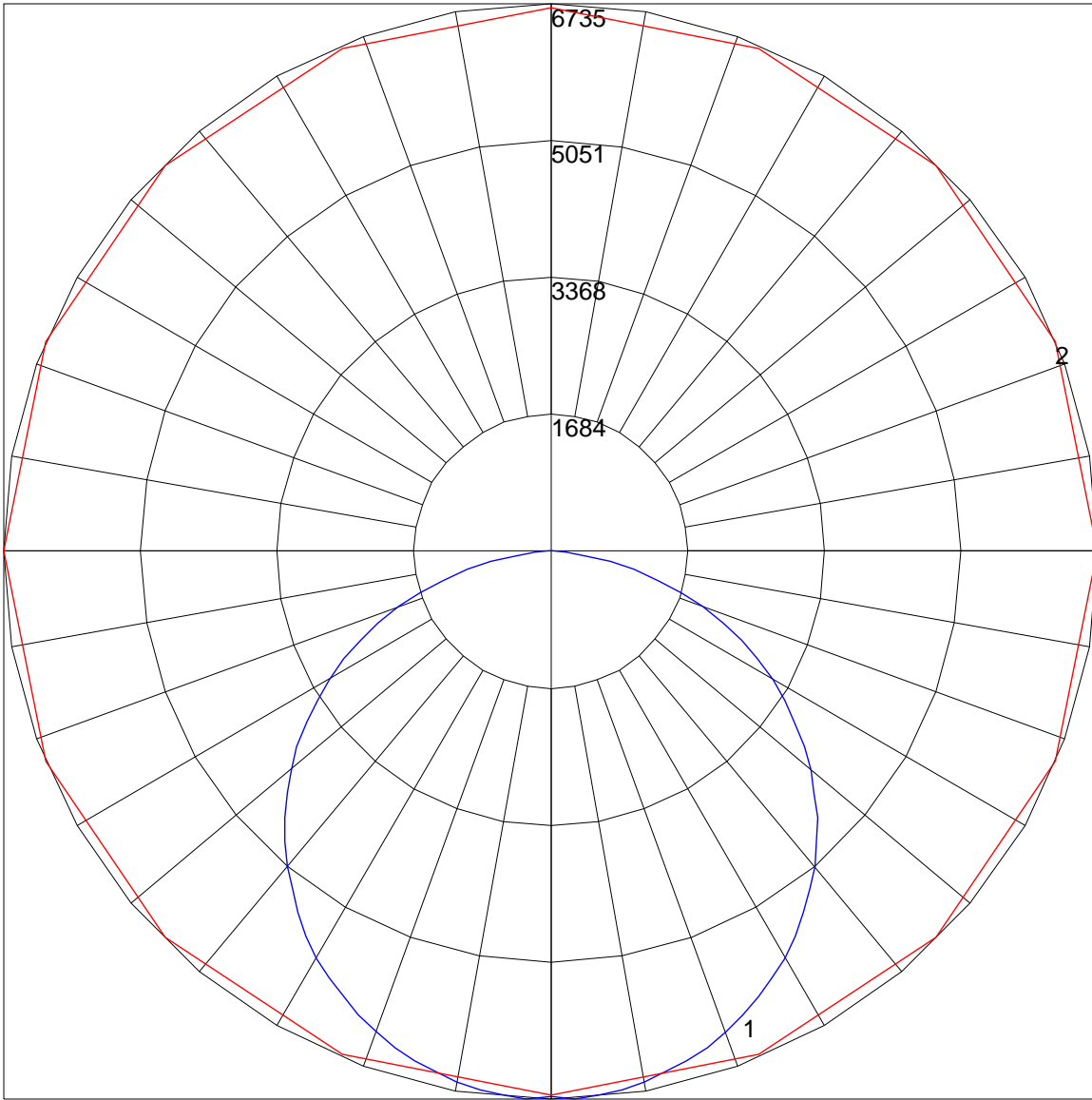
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	101	101	101	101	97	97	97	93	93	93	89	89	89	87	87
1	93	89	84	80	91	87	83	79	83	79	77	79	77	74	76	74	72	70	70
2	84	76	69	64	82	74	68	63	71	66	62	68	64	60	65	62	59	57	57
3	76	66	58	52	74	65	57	52	62	56	51	59	54	50	57	53	49	47	47
4	69	58	50	44	67	57	49	43	55	48	43	52	47	42	50	45	41	39	39
5	64	52	43	37	62	51	43	37	49	42	36	47	41	36	45	40	36	34	34
6	59	46	38	32	57	45	38	32	44	37	32	42	36	31	41	35	31	29	29
7	54	42	34	28	53	41	33	28	40	33	28	38	32	28	37	32	27	25	25
8	50	38	30	25	49	37	30	25	36	29	25	35	29	24	34	28	24	23	23
9	47	35	27	22	46	34	27	22	33	27	22	32	26	22	31	26	22	20	20
10	44	32	25	20	43	32	25	20	31	24	20	30	24	20	29	24	20	18	18

POLAR GRAPH



Maximum Candela = 6735 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.)