



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : EL4WA632UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]05/20/08
 [TEST]ITL60326
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE]EL4WA632UNIH
 [LUMINAIRE]ELITE WHITE REFL. 4' 32W T8 6-LAMP HBF
 [LAMP](6) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]TWO GE GE332MAX-H/ULTRA
 [MOUNTING]SUSPENDED
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS = 216 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED = 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	17700 (6 lamps)
Total Luminaire Efficiency	84 %
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	216
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)	4.01 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	8532	9017	9531
55	8299	9088	9695
65	7914	9033	9533
75	6821	8308	8836
85	2416	6164	7513

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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	4439.36	4439.36	4439.36	4439.36	4439.36
2.5	4451.53	4445.45	4430.67	4421.97	4416.76
5.0	4435.01	4429.8	4417.62	4409.8	4406.32
7.5	4411.54	4408.06	4398.5	4395.02	4395.02
10.0	4378.5	4375.02	4371.54	4375.89	4376.76
12.5	4335.03	4336.77	4340.24	4354.16	4355.89
15.0	4285.47	4287.21	4301.12	4322.86	4329.81
17.5	4225.48	4233.3	4255.04	4287.21	4299.38
20.0	4153.31	4171.57	4204.61	4248.08	4262.86
22.5	4082.02	4101.15	4147.23	4204.61	4220.26
25.0	3993.34	4027.25	4085.5	4149.84	4178.53
27.5	3911.61	3945.52	4016.81	4095.93	4123.75
30.0	3804.67	3850.75	3941.17	4031.59	4062.89
32.5	3699.47	3755.11	3851.62	3960.3	4002.03
35.0	3586.44	3646.43	3764.68	3891.61	3937.69
37.5	3456.02	3535.14	3664.69	3810.76	3853.36
40.0	3341.26	3424.72	3566.44	3722.94	3771.63
42.5	3199.54	3298.66	3465.59	3624.7	3661.21
45.0	3062.17	3175.19	3356.91	3513.41	3560.36
47.5	2916.97	3036.95	3236.93	3392.55	3434.29
50.0	2769.17	2898.71	3109.12	3267.36	3313.44
52.5	2606.58	2749.17	2962.18	3129.11	3167.37
55.0	2437.04	2593.54	2810.03	2975.22	3011.74
57.5	2274.46	2439.65	2659.62	2820.46	2841.33
60.0	2095.35	2277.93	2490.08	2647.44	2674.4
62.5	1923.2	2108.39	2315.32	2451.82	2471.82
65.0	1737.14	1935.37	2137.95	2258.81	2271.85
67.5	1553.69	1751.92	1937.11	2058.83	2062.31
70.0	1356.33	1558.04	1721.49	1844.08	1855.39
72.5	1153.75	1368.5	1518.91	1641.5	1637.16
75.0	945.95	1170.27	1304.16	1395.45	1402.41
77.5	734.68	966.82	1072.89	1167.66	1183.31
80.0	523.40	745.11	847.70	972.03	966.82
82.5	316.48	538.18	646.86	745.98	751.20
85.0	129.55	339.95	446.89	549.49	558.18
87.5	22.61	169.54	284.31	398.20	412.11
90.0	0.00	58.25	179.97	247.79	283.44
92.5	0.00	5.22	81.73	116.50	167.80
95.0	0.00	0.00	37.39	57.38	103.46
97.5	0.00	0.00	3.48	17.39	44.34
100.0	0.00	0.00	0.00	1.74	9.56
102.5	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3523.12	19.9	23.7
0-40	5880.64	33.2	39.6
0-60	10938.3	61.8	73.6
0-90	14813.24	83.7	99.6
90-120	54.54	.3	.4
90-130	54.54	.3	.4
90-150	54.54	.3	.4
90-180	54.54	.3	.4
0-180	14867.78	84	100

Total Luminaire Efficiency = 84%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	420.51
10-20	1216.48
20-30	1886.13
30-40	2357.53
40-50	2575.28
50-60	2482.38
60-70	2056.75
70-80	1329.26
80-90	488.93
90-100	54.32
100-110	.22
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

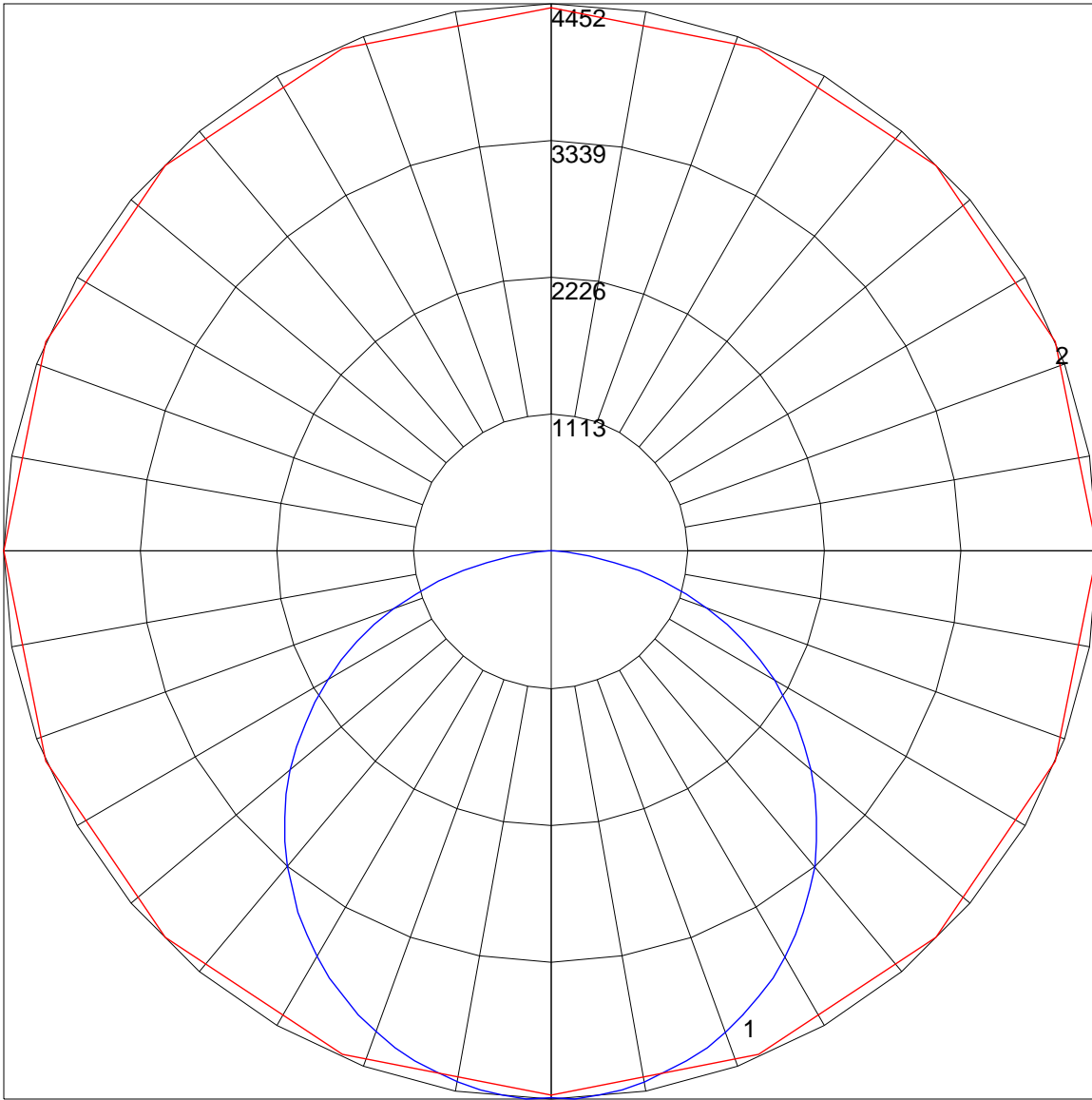
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	98	98	98	98	93	93	93	89	89	89	85	85	85	84
1	90	86	82	78	88	84	80	77	80	77	74	77	74	72	74	72	70	68
2	82	74	68	63	79	72	67	62	69	64	60	66	62	59	64	60	57	56
3	74	64	57	51	72	63	56	51	60	55	50	58	53	49	56	52	48	46
4	67	57	49	43	65	56	48	43	53	47	42	51	46	41	49	45	41	39
5	62	50	42	37	60	49	42	36	48	41	36	46	40	35	44	39	35	33
6	57	45	37	32	55	44	37	32	43	36	31	41	35	31	40	35	31	29
7	53	41	33	28	51	40	33	28	39	32	27	37	32	27	36	31	27	25
8	49	37	30	25	48	37	29	25	35	29	24	34	28	24	33	28	24	22
9	46	34	27	22	44	33	27	22	32	26	22	32	26	22	31	25	22	20
10	43	31	24	20	42	31	24	20	30	24	20	29	24	20	28	23	20	18

POLAR GRAPH



Maximum Candela = 4451.53 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.)