



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : EL4SA632UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]11/06/03
 [TEST]ITL54165
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE]EL4SA632UNIH
 [LUMINAIRE]ELITE MIRO4 4' 32w T8 6-LAMP HBF
 [LAMP](6) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]TWO TCP E32IS32277H
 [MOUNTING]SUSPENDED
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS= 216 AT 277.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	17700 (6 lamps)
Total Luminaire Efficiency	91 %
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	216
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.18
Spacing Criteria (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.11 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10121	8737	8676
55	9362	8007	9187
65	8119	8185	9068
75	6173	7532	8709
85	1508	6073	7807

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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	5695.45	5695.45	5695.45	5695.45	5695.45
2.5	5698.4	5695.45	5677.75	5664.96	5650.21
5.0	5673.81	5677.75	5653.16	5646.28	5650.21
7.5	5637.43	5637.43	5640.38	5656.11	5680.7
10.0	5588.26	5585.31	5631.53	5670.86	5692.5
12.5	5521.4	5530.25	5615.8	5646.28	5667.91
15.0	5448.63	5476.16	5570.56	5612.85	5631.53
17.5	5363.08	5402.42	5512.55	5557.78	5557.78
20.0	5258.85	5338.5	5441.75	5463.38	5424.05
22.5	5142.82	5250.00	5347.35	5305.07	5216.57
25.0	5032.68	5142.82	5225.42	5066.12	4947.13
27.5	4910.75	5032.68	5073.00	4813.4	4720.97
30.0	4745.55	4892.07	4846.83	4581.33	4477.1
32.5	4574.45	4742.6	4562.65	4311.9	4178.17
35.0	4427.94	4593.13	4317.8	4031.65	3976.59
37.5	4239.14	4422.04	4070.99	3826.14	3872.35
40.0	4049.35	4226.35	3792.7	3710.1	3634.39
42.5	3860.55	4018.87	3512.45	3481.97	3438.71
45.0	3646.19	3783.85	3301.04	3264.66	3292.19
47.5	3438.71	3508.52	3173.21	3118.14	3182.06
50.0	3206.64	3203.69	2919.51	2993.26	3109.29
52.5	3005.06	2944.09	2706.12	2931.31	3023.74
55.0	2767.09	2675.64	2529.12	2822.16	2919.51
57.5	2529.12	2397.36	2394.41	2703.17	2754.31
60.0	2284.28	2113.18	2293.13	2540.92	2583.21
62.5	2046.31	1911.59	2149.56	2351.14	2400.31
65.0	1801.46	1712.96	2000.09	2186.93	2235.11
67.5	1569.39	1475.00	1811.29	1991.24	2021.73
70.0	1325.53	1289.15	1627.41	1786.71	1831.94
72.5	1093.46	1157.38	1441.56	1612.66	1649.04
75.0	873.20	1007.91	1245.88	1428.78	1460.25
77.5	647.03	836.81	1065.93	1215.4	1245.88
80.0	445.45	662.76	867.30	1029.55	1074.78
82.5	250.75	491.67	684.40	848.61	867.30
85.0	85.55	301.88	494.61	626.38	653.91
87.5	11.80	168.15	333.35	461.18	494.61
90.0	0.00	82.60	223.22	354.00	376.62
92.5	0.00	29.50	137.67	222.23	268.45
95.0	0.00	6.88	82.60	155.37	188.80
97.5	0.00	0.00	47.20	101.28	129.80
100.0	0.00	0.00	19.67	68.83	89.48
102.5	0.00	0.00	1.97	36.38	54.08
105.0	0.00	0.00	0.00	8.85	21.63
107.5	0.00	0.00	0.00	0.00	1.97
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	4454.2	25.2	27.6
0-40	7143.92	40.4	44.3
0-60	12251.52	69.2	76
0-90	15993.9	90.4	99.3
90-120	117.28	.7	.7
90-130	117.28	.7	.7
90-150	117.28	.7	.7
90-180	117.28	.7	.7
0-180	16111.18	91	100

Total Luminaire Efficiency = 91%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	539.59
10-20	1565.93
20-30	2348.67
30-40	2689.73
40-50	2678.56
50-60	2429.04
60-70	1946.73
70-80	1273.06
80-90	522.59
90-100	107.06
100-110	10.22
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

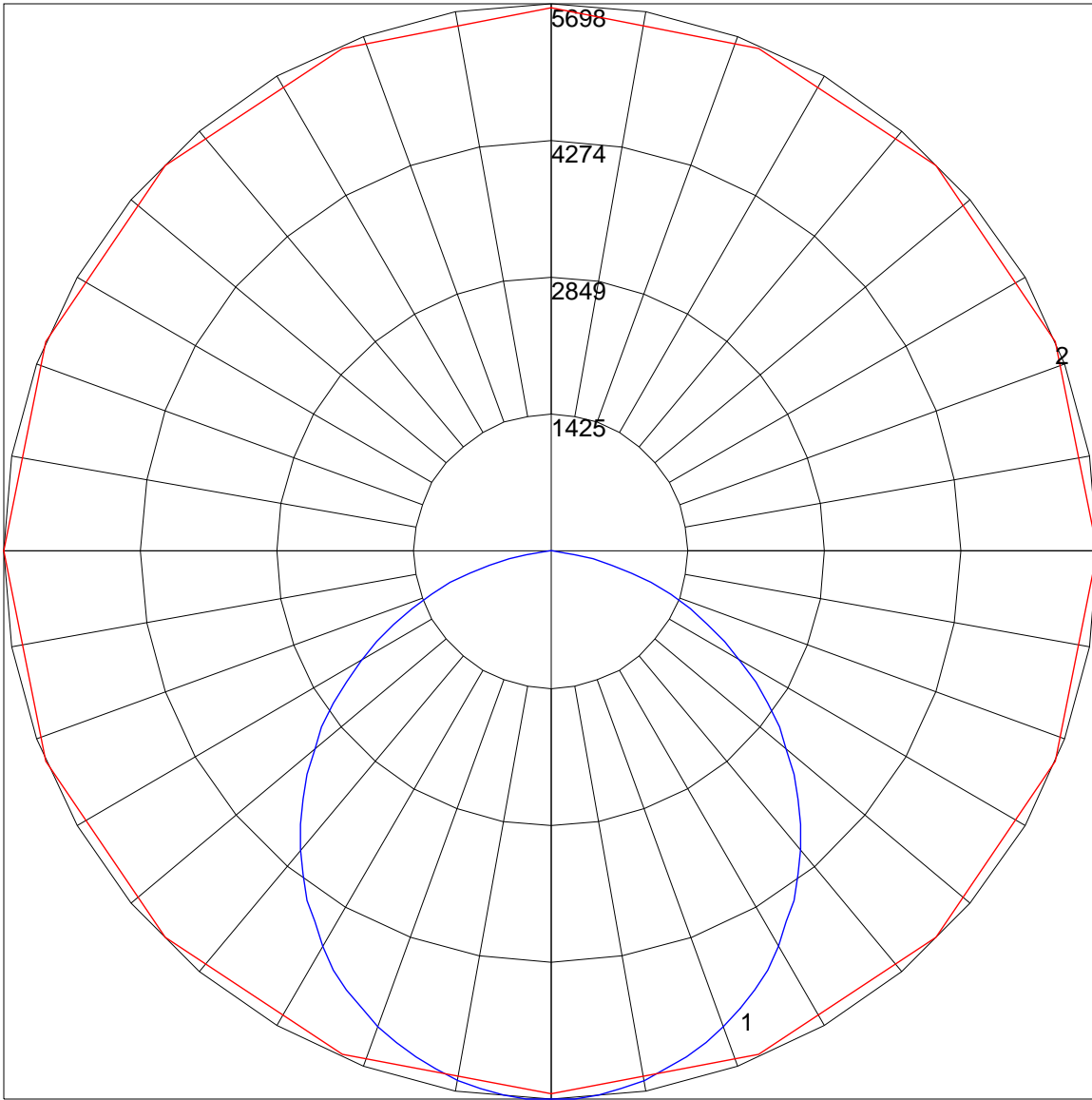
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	108	106	106	106	106	106	101	101	101	96	96	96	92	92	92	90
1	98	94	89	86	86	96	91	88	84	84	87	84	81	84	81	79	80	78	76	74
2	89	81	75	70	70	87	80	74	69	69	76	71	67	73	69	65	70	67	64	62
3	81	71	64	58	58	79	70	63	57	57	67	61	56	64	59	55	62	58	54	52
4	74	63	55	49	49	72	62	54	49	49	60	53	48	57	52	47	55	50	46	44
5	68	57	48	42	42	66	56	48	42	42	53	47	41	52	46	41	50	45	40	38
6	63	51	43	37	37	61	50	42	37	37	48	41	36	47	41	36	45	40	36	34
7	59	46	38	33	33	57	46	38	32	32	44	37	32	43	37	32	41	36	32	30
8	55	42	35	29	29	53	42	34	29	29	40	34	29	39	33	29	38	33	28	27
9	51	39	31	26	26	50	38	31	26	26	37	31	26	36	30	26	35	30	26	24
10	48	36	29	24	24	47	35	28	24	24	34	28	24	34	28	24	33	27	23	22

POLAR GRAPH



Maximum Candela = 5698.4 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.)