



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : EL4SA432UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]ITL59599
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [ISSUE DATE]12/13/07
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS
 [LUMCAT]EL4SA432UNIH
 [LUMINAIRE]ELITE MIRO4 4' 32w T8 4-LAMP HBF
 [LAMP](4) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST]GE GE-432-MAX-H/ULTRA
 [_ MOUNTING]SUSPENDED
 [OTHER]THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.
 [OTHER]TOTAL INPUT WATTS= 145 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	11800 (4 lamps)
Total Luminaire Efficiency	92.5 %
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	145
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.10
Spacing Criteria (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.02 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	7247	5935	6026
55	6686	5629	5801
65	5757	5339	6430
75	4234	5829	7502
85	1149	5766	7365

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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	4075.07	4075.07	4075.07	4075.07	4075.07
2.5	4081.15	4078.54	4063.76	4051.59	4050.72
5.0	4064.63	4063.76	4042.9	4017.68	4009.86
7.5	4038.55	4032.46	3995.95	3969.86	3955.95
10.0	4002.9	3990.73	3942.04	3895.09	3869.01
12.5	3958.56	3936.82	3866.4	3802.06	3762.94
15.0	3903.79	3869.01	3775.11	3687.3	3643.82
17.5	3840.32	3799.45	3668.17	3564.7	3521.23
20.0	3767.28	3718.59	3549.92	3450.81	3410.81
22.5	3685.56	3619.48	3424.72	3334.3	3286.48
25.0	3597.74	3521.23	3307.35	3215.19	3173.46
27.5	3504.71	3400.38	3190.84	3086.51	3046.52
30.0	3400.38	3279.53	3051.73	2958.7	2906.54
32.5	3284.74	3145.63	2921.32	2816.12	2775.25
35.0	3155.2	2995.22	2781.34	2680.48	2657.88
37.5	3031.74	2853.5	2631.79	2562.24	2556.15
40.0	2896.1	2702.22	2483.12	2457.04	2483.12
42.5	2756.12	2560.5	2346.62	2376.18	2406.61
45.0	2607.45	2401.39	2215.33	2296.19	2257.07
47.5	2455.3	2252.72	2100.57	2143.17	2121.43
50.0	2300.54	2084.05	1999.71	2011.88	1997.97
52.5	2129.26	1931.9	1891.9	1882.34	1897.12
55.0	1968.41	1762.35	1744.97	1777.14	1806.7
57.5	1799.74	1590.21	1593.68	1684.97	1735.4
60.0	1618.9	1444.14	1465.88	1611.07	1671.06
62.5	1438.05	1288.51	1352.85	1544.13	1605.86
65.0	1266.77	1168.53	1266.77	1474.57	1536.3
67.5	1093.76	1038.98	1189.39	1401.54	1431.1
70.0	915.52	893.78	1112.01	1287.64	1348.5
72.5	751.20	756.41	1025.94	1218.95	1296.34
75.0	588.61	652.95	917.26	1153.75	1193.74
77.5	424.29	568.61	856.40	1032.03	1063.33
80.0	277.35	487.76	741.63	899.87	911.17
82.5	153.89	392.99	600.78	703.38	705.99
85.0	61.73	295.61	419.07	535.58	548.62
87.5	12.17	167.80	276.48	370.38	379.08
90.0	0.87	59.99	164.32	232.14	263.44
92.5	0.00	2.61	80.86	119.11	167.80
95.0	0.00	0.00	18.26	38.26	78.25
97.5	0.00	0.00	0.00	3.48	22.61
100.0	0.00	0.00	0.00	0.00	0.00
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	2990.88	25.3	27.4
0-40	4771.05	40.4	43.7
0-60	8176.69	69.3	74.9
0-90	10873.41	92.1	99.6
90-120	47.31	.4	.4
90-130	47.31	.4	.4
90-150	47.31	.4	.4
90-180	47.31	.4	.4
0-180	10920.72	92.5	100

Total Luminaire Efficiency = 92.5%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	382.52
10-20	1063.35
20-30	1545.01
30-40	1780.17
40-50	1799.02
50-60	1606.62
60-70	1312.97
70-80	951.53
80-90	432.22
90-100	47.31
100-110	0
110-120	0
120-130	0
130-140	0
140-150	0
150-160	0
160-170	0
170-180	0

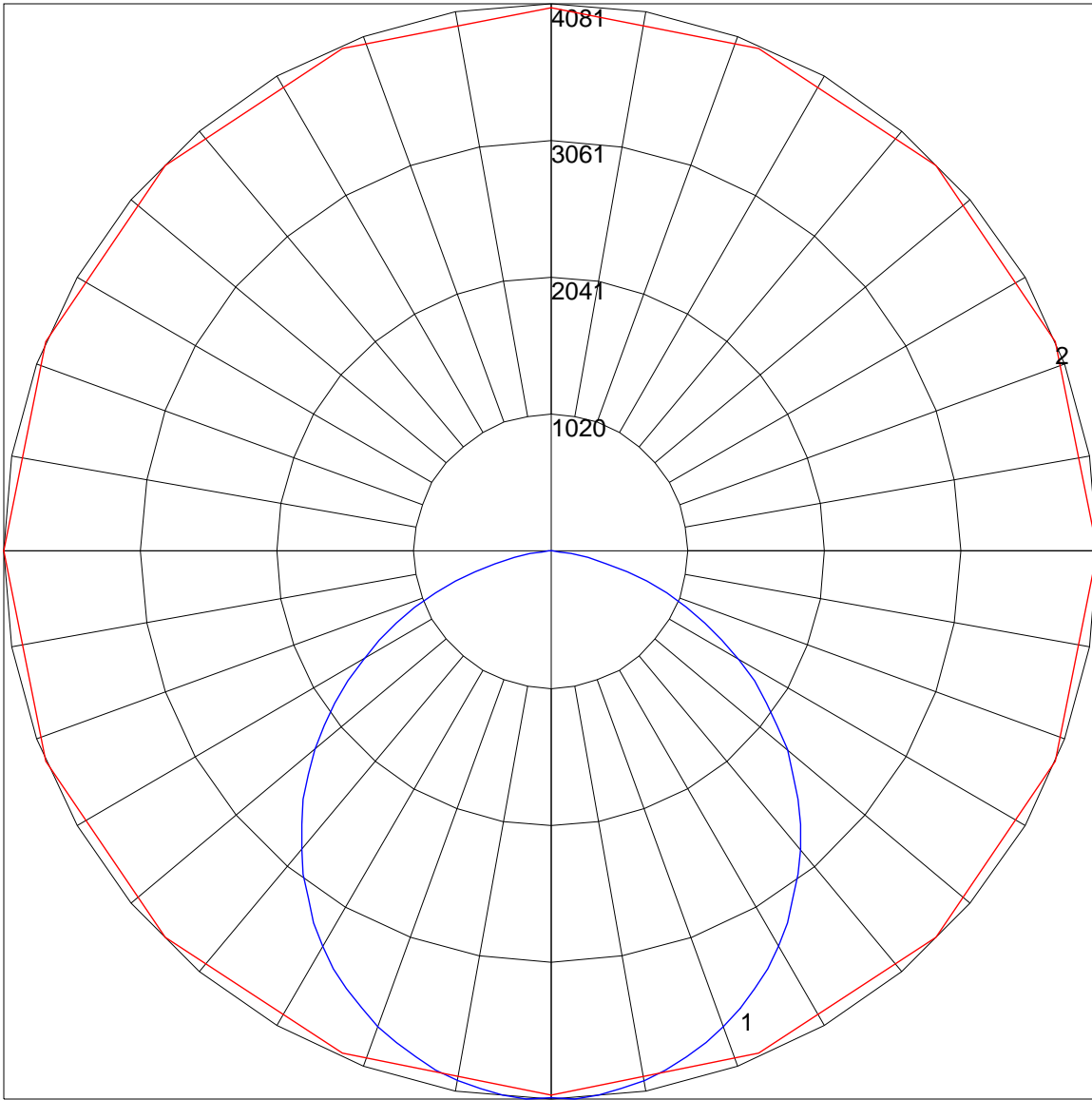
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	107	107	107	107	103	103	103	98	98	98	94	94	94	92
1	100	95	90	86	97	93	89	85	89	85	82	85	82	80	81	79	77	75
2	90	82	76	70	88	80	74	69	77	72	67	74	70	66	71	67	64	62
3	82	72	64	58	80	71	63	57	68	61	56	65	60	55	63	58	54	52
4	75	64	55	49	73	63	55	49	60	53	48	58	52	47	56	51	47	45
5	69	57	49	42	67	56	48	42	54	47	42	52	46	41	50	45	41	39
6	64	52	43	37	62	51	43	37	49	42	36	47	41	36	46	40	36	34
7	59	47	39	33	58	46	38	33	45	38	32	43	37	32	42	36	32	30
8	55	43	35	29	54	42	35	29	41	34	29	40	33	29	39	33	29	27
9	52	39	32	26	50	39	31	26	38	31	26	37	30	26	36	30	26	24
10	49	36	29	24	47	36	29	24	35	28	24	34	28	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 4081.15 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.)