



IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA432UNIH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE DATE]10/30/07
 [TEST]ITL59440
 [TEST LAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFACTURER]TECHNICAL CONSUMER PRODUCTS
 [LUMINAIRE CATEGORY]PC4SA432UNIH
 [LUMINAIRE]POWER CAGE 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	80.1 %
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	145
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.50
Spacing Criteria (Diagonal)	1.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.76 ft
Luminous Height	0.23 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8100	8571	8394
55	7370	7615	8102
65	6213	7077	7559
75	4494	6150	6477
85	1404	4218	4826

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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	2631.79	2631.79	2631.79	2631.79	2631.79
2.5	2643.97	2641.36	2637.01	2627.45	2627.45
5.0	2633.53	2638.75	2637.01	2625.71	2624.84
7.5	2618.75	2625.71	2623.97	2594.41	2589.19
10.0	2596.15	2607.45	2585.71	2583.11	2583.11
12.5	2571.8	2583.11	2566.59	2550.94	2543.11
15.0	2533.55	2541.37	2530.94	2490.95	2495.29
17.5	2495.29	2491.82	2479.64	2498.77	2540.5
20.0	2447.47	2440.52	2417.04	2540.5	2614.41
22.5	2401.39	2399.65	2410.96	2611.8	2674.4
25.0	2341.4	2348.36	2419.65	2631.79	2663.96
27.5	2280.54	2281.41	2446.6	2613.54	2675.27
30.0	2213.59	2205.77	2463.99	2619.62	2677.88
32.5	2139.69	2120.56	2429.22	2607.45	2646.58
35.0	2058.83	2041.45	2391.83	2557.89	2580.5
37.5	1972.76	1985.8	2362.27	2489.21	2510.94
40.0	1887.55	1942.33	2320.54	2409.22	2410.09
42.5	1799.74	1897.99	2247.5	2308.36	2311.84
45.0	1703.23	1861.47	2146.65	2204.03	2184.9
47.5	1604.99	1803.22	2060.57	2070.14	2057.1
50.0	1503.26	1718.88	1942.33	1941.46	1956.24
52.5	1397.19	1636.29	1828.43	1844.95	1903.2
55.0	1286.77	1556.3	1684.11	1786.7	1884.08
57.5	1172.87	1464.14	1546.73	1751.92	1811.04
60.0	1062.46	1349.37	1442.4	1671.93	1723.23
62.5	946.82	1234.6	1380.67	1577.16	1615.42
65.0	830.32	1103.32	1310.25	1458.92	1494.57
67.5	721.64	978.12	1209.39	1349.37	1402.41
70.0	606.00	840.75	1095.49	1254.6	1291.12
72.5	504.28	721.64	984.21	1132.88	1140.71
75.0	398.20	632.08	882.48	983.34	1016.38
77.5	282.57	539.05	751.20	874.66	919.00
80.0	184.32	440.81	637.30	757.28	781.63
82.5	108.68	351.25	526.88	622.52	655.56
85.0	57.38	261.70	411.25	508.62	537.31
87.5	6.96	158.24	305.17	399.07	423.42
90.0	0.00	113.03	241.70	324.30	352.12
92.5	0.00	93.90	215.62	293.87	325.17
95.0	0.00	72.16	193.02	268.66	299.96
97.5	0.00	55.64	170.41	245.18	277.35
100.0	0.00	37.39	141.72	217.36	251.27
102.5	0.00	23.47	119.11	183.45	217.36
105.0	0.00	20.00	96.51	158.24	186.93
107.5	0.00	14.78	70.42	134.76	160.85
110.0	0.00	12.17	50.43	101.72	134.76
112.5	0.00	10.43	33.04	79.12	99.12
115.0	0.00	7.82	26.95	58.25	76.51
117.5	0.00	6.96	24.34	39.12	54.77
120.0	0.00	5.22	17.39	28.69	33.04
122.5	0.00	3.48	15.65	27.82	22.61
125.0	0.00	1.74	13.91	22.61	21.74
127.5	0.00	0.00	12.17	17.39	18.26
130.0	0.00	0.00	12.17	16.52	11.30
132.5	0.00	0.00	11.30	15.65	11.30

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	10.43	13.91	11.30
137.5	0.00	0.00	8.69	13.04	11.30
140.0	0.00	0.00	6.96	12.17	10.43
142.5	0.00	0.00	5.22	10.43	9.56
145.0	0.00	0.00	0.00	8.69	8.69
147.5	0.00	0.00	0.00	7.82	8.69
150.0	0.00	0.00	0.00	2.61	7.82
152.5	0.00	0.00	0.00	0.00	4.35
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	2107.36	17.9	22.3
0-40	3565.82	30.2	37.7
0-60	6613.77	56	69.9
0-90	9117.38	77.3	96.4
90-120	320.09	2.7	3.4
90-130	331.22	2.8	3.5
90-150	339.47	2.9	3.6
90-180	339.65	2.9	3.6
0-180	9457.03	80.1	100

Total Luminaire Efficiency = 80.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	249.74
10-20	715.29
20-30	1142.34
30-40	1458.45
40-50	1569.53
50-60	1478.42
60-70	1244.58
70-80	848.61
80-90	410.42
90-100	187.52
100-110	98.14
110-120	34.43
120-130	11.13
130-140	5.8
140-150	2.45
150-160	.18
160-170	0
170-180	0

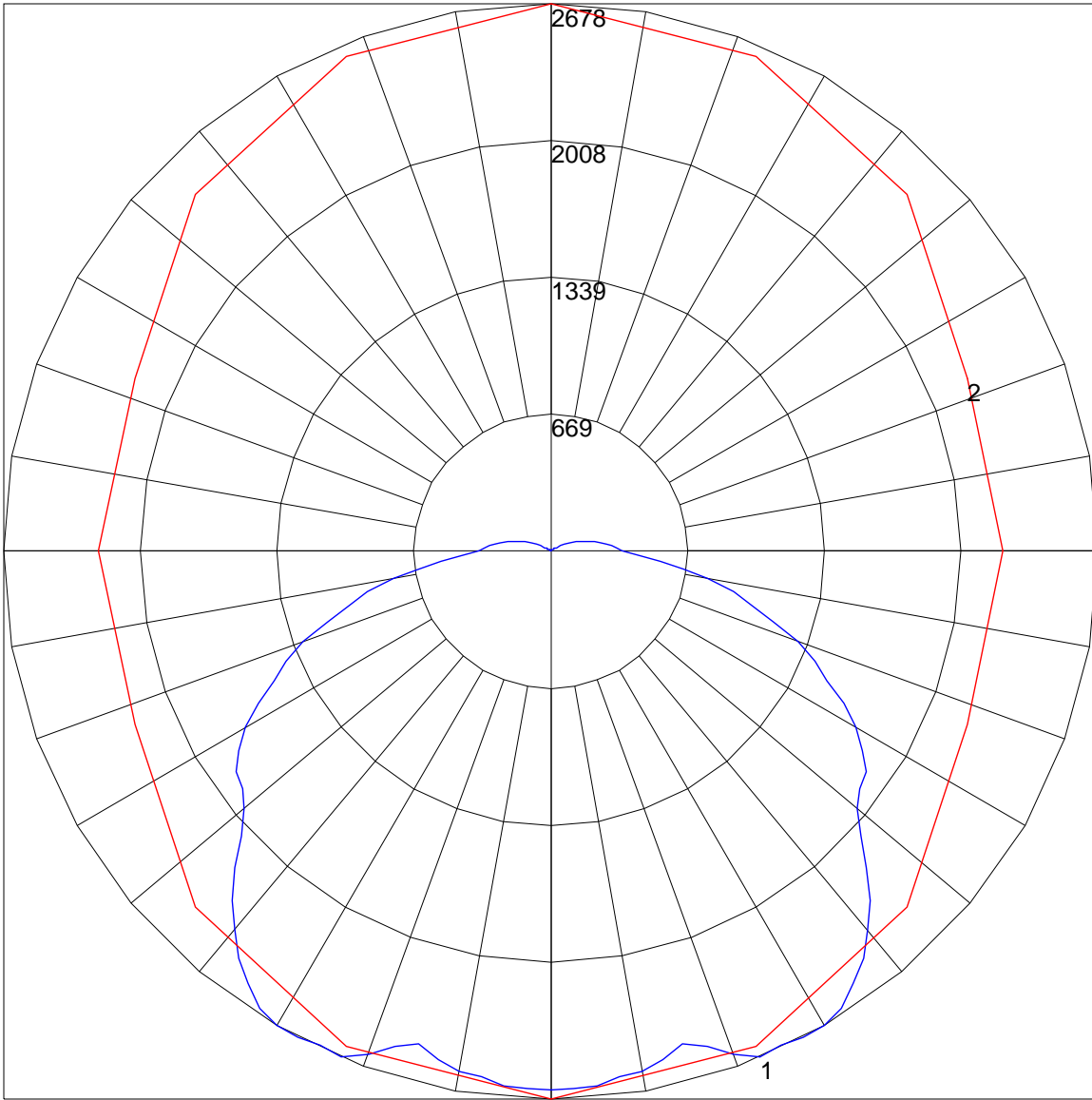
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	92	92	92	92	87	87	87	83	83	83	79	79	79	77
1	85	81	77	73	83	79	75	72	75	72	69	71	69	66	68	66	64	62
2	77	70	64	59	74	68	62	58	64	60	56	61	57	54	58	55	52	50
3	70	61	54	48	67	59	53	47	56	51	46	54	49	45	51	47	44	42
4	64	53	46	40	61	52	45	40	50	44	39	47	42	38	45	41	37	35
5	58	47	40	34	56	46	39	34	44	38	33	42	37	33	40	36	32	30
6	54	42	35	30	52	42	34	29	40	33	29	38	33	28	37	32	28	26
7	50	38	31	26	48	38	31	26	36	30	25	35	29	25	33	28	25	23
8	46	35	28	23	45	34	27	23	33	27	22	32	26	22	30	26	22	20
9	43	32	25	21	42	31	25	20	30	24	20	29	24	20	28	23	20	18
10	40	29	23	19	39	29	23	18	28	22	18	27	22	18	26	21	18	16

POLAR GRAPH



Maximum Candela = 2677.88 Located At Horizontal Angle = 90, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)