



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PC4SA332UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [ISSUE]10/31/07
 [TEST]ITL59441
 [TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
 [MANUFAC]TECHNICAL CONSUMER PRODUCTS
 [LUMCAT]PC4SA332UNIH
 [LUMINAIRE]POWER CAGE MIRO4 4' 32w T8 3-LAMP HBF
 [LAMP](3) 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= 109 AT 120.0 VOLTS
 [OTHER]LUMEN TO CANDELA RATIO USED= 9.17

CHARACTERISTICS

Total Rated Lamp Lumens	8850 (3 lamps)
Total Luminaire Efficiency	81.5 %
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	109
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.24
Spacing Criteria (90-270)	1.24
Spacing Criteria (Diagonal)	1.38
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	6996	6197	6019
55	6254	5429	5545
65	5088	4659	5725
75	3464	5005	5347
85	957	3639	4397

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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	2328.36	2328.36	2328.36	2328.36	2328.36
2.5	2340.53	2330.1	2314.45	2300.54	2299.67
5.0	2337.05	2312.71	2299.67	2280.54	2273.59
7.5	2322.27	2295.32	2271.85	2250.11	2243.16
10.0	2302.28	2271.85	2239.68	2198.81	2187.51
12.5	2282.28	2239.68	2189.25	2141.43	2116.22
15.0	2250.98	2202.29	2130.13	2075.35	2067.53
17.5	2216.2	2156.21	2068.4	2020.58	1994.5
20.0	2172.73	2101.44	2011.01	1949.28	1923.2
22.5	2128.39	2046.66	1944.94	1879.73	1885.82
25.0	2077.09	1981.45	1872.77	1860.6	1901.47
27.5	2004.93	1909.29	1793.65	1870.17	1904.07
30.0	1942.33	1836.26	1742.36	1857.12	1882.34
32.5	1873.64	1758.01	1722.36	1832.78	1874.51
35.0	1799.74	1679.76	1704.1	1823.22	1865.82
37.5	1719.75	1596.29	1669.32	1803.22	1809.3
40.0	1639.76	1503.26	1625.85	1740.62	1717.14
42.5	1557.17	1419.8	1592.81	1645.85	1633.68
45.0	1471.09	1330.24	1551.95	1555.43	1566.73
47.5	1378.93	1258.95	1482.4	1489.35	1480.66
50.0	1285.03	1205.91	1378.06	1396.32	1374.58
52.5	1190.26	1149.4	1280.69	1284.16	1349.37
55.0	1092.02	1079.84	1200.7	1266.77	1289.38
57.5	990.29	1006.81	1102.45	1190.26	1202.44
60.0	887.70	939.86	998.99	1109.41	1167.66
62.5	780.76	865.09	958.99	1085.06	1153.75
65.0	679.90	761.63	862.48	1060.72	1132.01
67.5	579.92	663.38	810.32	1037.24	1132.88
70.0	484.28	576.44	782.50	1036.37	1076.37
72.5	395.60	482.54	749.46	930.30	953.78
75.0	306.91	412.11	718.16	812.93	839.01
77.5	219.97	355.60	610.35	719.90	769.45
80.0	139.98	320.82	517.32	640.78	672.95
82.5	78.25	270.40	439.07	541.66	576.44
85.0	39.12	201.71	354.73	453.85	489.49
87.5	4.35	133.02	275.61	365.16	393.86
90.0	0.00	94.77	218.23	299.96	328.65
92.5	0.00	79.99	193.89	275.61	302.57
95.0	0.00	61.73	174.76	252.14	278.22
97.5	0.00	44.34	153.89	232.14	259.96
100.0	0.00	26.95	126.07	206.93	235.62
102.5	0.00	14.78	102.59	173.89	200.84
105.0	0.00	12.17	77.38	148.67	173.02
107.5	0.00	8.69	54.77	122.59	145.20
110.0	0.00	6.96	35.65	91.29	117.37
112.5	0.00	5.22	19.13	67.82	84.34
115.0	0.00	4.35	17.39	46.95	63.47
117.5	0.00	2.61	16.52	26.95	39.12
120.0	0.00	2.61	11.30	19.13	20.87
122.5	0.00	1.74	9.56	17.39	14.78
125.0	0.00	0.87	9.56	14.78	14.78
127.5	0.00	0.00	7.82	11.30	7.82
130.0	0.00	0.00	6.96	10.43	6.96
132.5	0.00	0.00	6.09	9.56	6.09

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CANDELA TABULATION - (Cont.)

135.0	0.00	0.00	5.22	8.69	6.96
137.5	0.00	0.00	4.35	8.69	6.96
140.0	0.00	0.00	4.35	7.82	6.96
142.5	0.00	0.00	0.87	6.09	4.35
145.0	0.00	0.00	0.00	4.35	4.35
147.5	0.00	0.00	0.00	4.35	4.35
150.0	0.00	0.00	0.00	0.87	4.35
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	1710.51	19.3	23.7
0-40	2807.86	31.7	38.9
0-60	5008.83	56.6	69.4
0-90	6919.92	78.2	95.9
90-120	284.78	3.2	3.9
90-130	291.77	3.3	4
90-150	296.49	3.4	4.1
90-180	296.54	3.4	4.1
0-180	7216.45	81.5	100

Total Luminaire Efficiency = 81.5%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	217.65
10-20	603.22
20-30	889.65
30-40	1097.35
40-50	1148.78
50-60	1052.19
60-70	895.6
70-80	664.18
80-90	351.31
90-100	171.69
100-110	86.9
110-120	26.19
120-130	7
130-140	3.44
140-150	1.27
150-160	.05
160-170	0
170-180	0

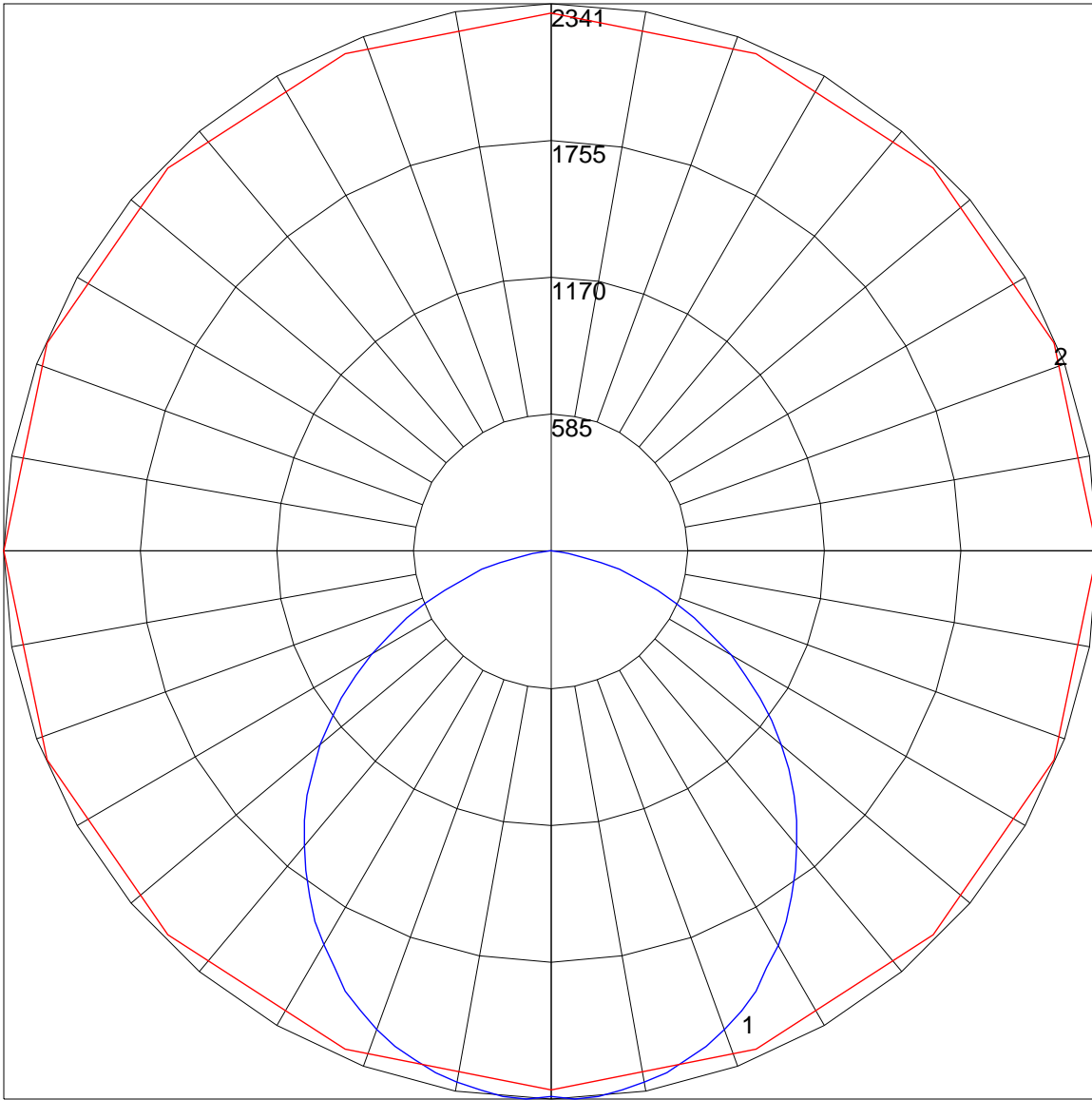
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	96	96	96	96	94	94	94	94	89	89	89	84	84	84	80	80	80	78
1	87	82	78	74	84	80	76	73	76	73	70	72	69	67	68	66	65	63
2	78	71	65	60	76	69	63	59	65	61	57	62	58	55	59	56	53	51
3	71	62	55	49	69	60	54	48	57	52	47	54	50	46	52	48	45	42
4	65	55	47	41	63	53	46	41	51	45	40	48	43	39	46	42	38	36
5	60	49	41	35	58	47	40	35	45	39	34	43	38	34	41	37	33	31
6	55	44	36	31	53	43	36	30	41	35	30	39	34	29	38	33	29	27
7	51	40	32	27	49	39	32	27	37	31	26	36	30	26	34	29	26	24
8	47	36	29	24	46	35	29	24	34	28	24	33	27	23	31	27	23	21
9	44	33	26	22	43	32	26	21	31	25	21	30	25	21	29	24	21	19
10	41	30	24	20	40	30	24	19	29	23	19	28	23	19	27	22	19	17

POLAR GRAPH



Maximum Candela = 2340.53 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.)