



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL4WA432UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 14136.0
 [ISSUE DATE] 10/4/2008
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [MANUFAC] TECHNICAL CONSUMER PRODUCTS, INC.
 [LUMCAT] PL4WA432UNIH
 [LUMINAIRE] POLAR BAY ENCLOSED & GASKETTED WHITE REFL. 4' 32W T8 4-LAMP HBF
 [LAMP] (4) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST] (1) ADVANCE BALLAST #ICN-4P32-SC WATTS=100 REFL=86%
 [_ MOUNTING] SUSPENDED
 [OTHER] THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS
 [OTHER] TOTAL INPUT WATTS = 100 AT 120.0 VOLTS

CHARACTERISTICS

Total Rated Lamp Lumens	11800 (4 lamps)
Total Luminaire Efficiency	81.1 %
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.26
Spacing Criteria (90-270)	1.48
Spacing Criteria (Diagonal)	1.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.23 ft
Luminous Width (90-270)	1.13 ft
Luminous Height	0.25 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4856	5287	5756
55	4448	5239	5869
65	3650	4844	5839
75	2311	4496	5356
85	1021	3810	5062

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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	2453	2453	2453	2453	2453
5	2475	2478	2492	2498	2499
10	2498	2503	2520	2538	2542
15	2449	2469	2506	2542	2555
20	2386	2420	2486	2545	2560
25	2240	2289	2377	2452	2477
30	2075	2145	2264	2362	2398
35	1955	2048	2194	2328	2376
40	1784	1904	2089	2259	2308
45	1609	1752	1983	2117	2201
50	1434	1612	1875	2043	2103
55	1224	1433	1707	1899	1962
60	980	1200	1456	1668	1735
65	769	1015	1292	1538	1612
70	537	778	1099	1377	1448
75	323	547	897	1073	1122
80	154	376	649	822	876
85	66	234	481	639	691
90	37	179	400	524	559
95	22	127	264	362	393
100	25	83	195	288	318
105	0	59	142	220	251
110	0	52	98	152	174
115	0	47	88	113	127
120	0	37	83	105	111
125	0	0	71	93	101
130	0	0	49	79	88
135	0	0	40	69	71
140	0	0	33	47	50
145	0	0	32	44	45
150	0	0	0	32	35
155	0	0	0	28	28
160	0	0	0	0	0
165	0	0	0	0	0
170	0	0	0	0	0
175	0	0	0	0	0
180	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2040.72	17.3	21.3
0-40	3404.39	28.9	35.6
0-60	6376.91	54	66.6
0-90	8972.33	76	93.7
90-120	504.34	4.3	5.3
90-130	553.95	4.7	5.8
90-150	595.43	5	6.2
90-180	599.42	5.1	6.3
0-180	9571.75	81.1	100

Total Luminaire Efficiency = 81.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.26
10-20	708.98
20-30	1093.48
30-40	1363.67
40-50	1503.72
50-60	1468.8
60-70	1238.9
70-80	863.88
80-90	492.64
90-100	277
100-110	147.02
110-120	80.32
120-130	49.61
130-140	27.54
140-150	13.94
150-160	4
160-170	0
170-180	0

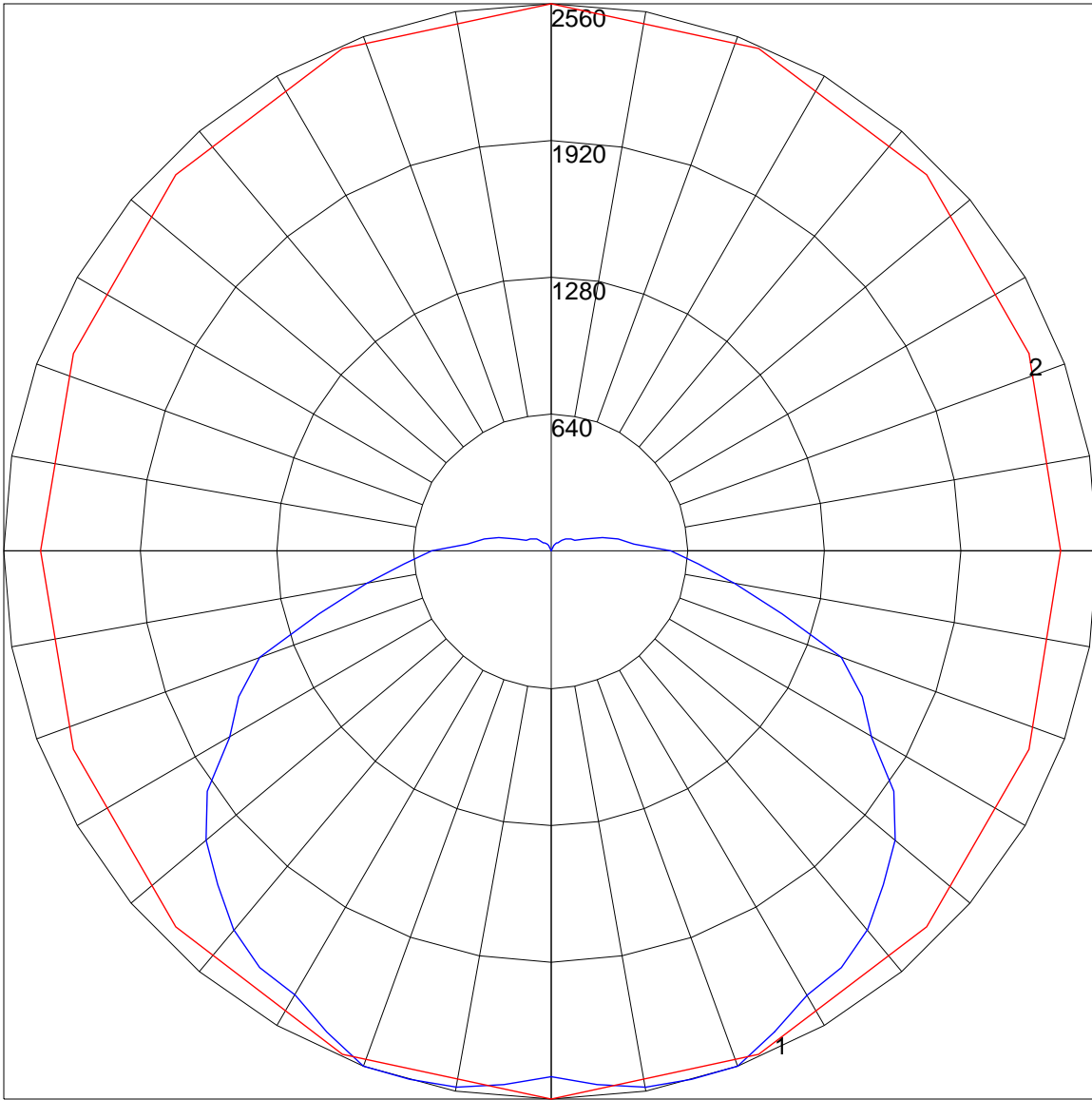
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	93	93	93	87	87	87	83	83	83	78	78	78	76
1	85	81	77	73	83	79	75	72	74	71	68	70	68	65	66	64	62	60
2	77	70	63	58	74	68	62	57	64	59	55	60	56	53	57	54	51	49
3	70	60	53	48	67	59	52	47	56	50	45	53	48	44	50	46	42	40
4	64	53	46	40	61	52	45	39	49	43	38	46	41	37	44	40	36	34
5	58	47	40	34	56	46	39	33	44	37	33	41	36	32	39	35	31	29
6	54	42	35	29	52	41	34	29	39	33	28	37	32	28	36	31	27	25
7	50	38	31	26	48	37	30	25	36	29	25	34	28	24	32	27	24	22
8	46	35	28	23	45	34	27	22	32	26	22	31	26	22	30	25	21	19
9	43	32	25	20	42	31	25	20	30	24	20	29	23	19	27	22	19	17
10	40	29	23	18	39	29	22	18	27	22	18	26	21	17	25	21	17	16

POLAR GRAPH



Maximum Candela = 2560 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)