



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL4WA632UNIH.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 14138.0
 [ISSUE DATE] 10/4/2008
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [MANUFAC] TECHNICAL CONSUMER PRODUCTS, INC.
 [LUMCAT] PL4WA632UNIH
 [LUMINAIRE] POLAR BAY ENCLOSED & GASKETTED WHITE REFL. 4' 32W T8 6-LAMPS HBF
 [LAMP] (6) 32-WATT T-8 LINEAR FLUORESCENTS
 [BALLAST] (1) ADVANCE BALLAST #ICN-4P32-SC & ONE ICN-2P32-SC WATTS=143 REFL=86%
 [_ MOUNTING] SUSPENDED
 [OTHER] THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS
 [OTHER] TOTAL INPUT WATTS= = 143 AT 120.0 VOLTS

CHARACTERISTICS

Total Rated Lamp Lumens	17700 (6 lamps)
Total Luminaire Efficiency	77.3 %
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	143
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.30
Spacing Criteria (90-270)	1.48
Spacing Criteria (Diagonal)	1.48
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	7533	7633	7969
55	6759	7473	8430
65	5454	6883	7661
75	3599	5639	6555
85	1346	4230	5553

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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	3748.0	3748.0	3748.0	3748.0	3748.0
5	3799.0	3809.0	3824.0	3830.0	3832.0
10	3856.0	3872.0	3904.0	3920.0	3928.0
15	3852.0	3892.0	3948.0	4003.0	4027.0
20	3637.0	3684.0	3780.0	3860.0	3884.0
25	3553.0	3632.0	3760.0	3880.0	3912.0
30	3209.0	3321.0	3489.0	3624.0	3672.0
35	3081.0	3217.0	3425.0	3584.0	3624.0
40	2746.0	2906.0	3145.0	3321.0	3369.0
45	2496.0	2695.0	2863.0	2959.0	3047.0
50	2163.0	2395.0	2666.0	2922.0	3010.0
55	1860.0	2131.0	2435.0	2730.0	2818.0
60	1525.0	1788.0	2155.0	2467.0	2547.0
65	1149.0	1429.0	1836.0	2075.0	2115.0
70	806.0	1093.0	1493.0	1668.0	1732.0
75	503.0	806.0	1125.0	1317.0	1373.0
80	223.0	487.0	790.0	974.0	1014.0
85	87.0	287.0	534.0	710.0	758.0
90	39.0	199.0	431.0	590.0	630.0
95	15.0	127.0	279.0	383.0	423.0
100	0.0	95.0	215.0	319.0	359.0
105	0.0	79.0	175.0	279.0	303.0
110	0.0	55.0	135.0	207.0	239.0
115	0.0	47.0	103.0	159.0	175.0
120	0.0	31.0	79.0	127.0	143.0
125	0.0	0.0	71.0	103.0	111.0
130	0.0	0.0	55.0	79.0	79.0
135	0.0	0.0	39.0	61.0	67.0
140	0.0	0.0	0.0	55.0	63.0
145	0.0	0.0	0.0	47.0	47.0
150	0.0	0.0	0.0	39.0	47.0
155	0.0	0.0	0.0	39.0	39.0
160	0.0	0.0	0.0	0.0	23.0
165	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0
180	6.2	6.2	6.2	6.2	6.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3170.32	17.9	23.2
0-40	5265.79	29.8	38.5
0-60	9610.99	54.3	70.2
0-90	13013.15	73.5	95.1
90-120	577.8	3.3	4.2
90-130	630.79	3.6	4.6
90-150	667.93	3.8	4.9
90-180	673.91	3.8	4.9
0-180	13687.05	77.3	100

Total Luminaire Efficiency = 77.3%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	366.52
10-20	1101.19
20-30	1702.61
30-40	2095.47
40-50	2202.08
50-60	2143.13
60-70	1727.99
70-80	1106.41
80-90	567.76
90-100	298.8
100-110	178.35
110-120	100.64
120-130	53
130-140	25.69
140-150	11.44
150-160	5.66
160-170	.24
170-180	.07

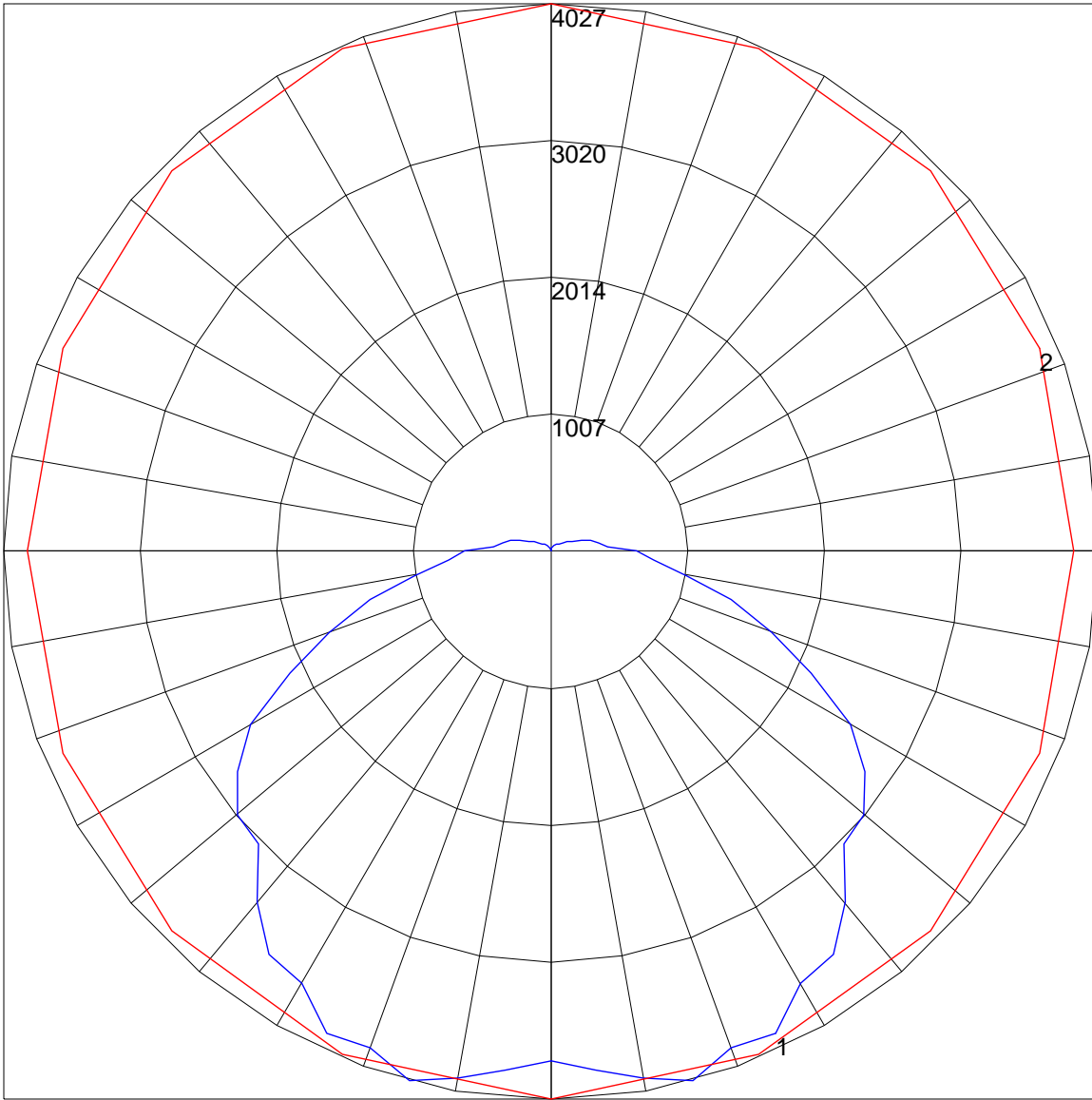
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	91	91	91	89	89	89	89	84	84	84	79	79	79	75	75	75	74
1	82	78	74	71	80	76	73	70	72	69	67	68	66	64	65	63	61	59
2	74	67	62	57	72	66	60	56	62	58	54	59	55	52	56	53	51	49
3	67	59	52	47	65	57	51	46	54	49	45	52	47	44	49	46	42	40
4	62	52	45	39	59	51	44	39	48	42	38	46	41	37	44	39	36	34
5	56	46	39	34	55	45	38	33	43	37	32	41	36	32	39	35	31	29
6	52	41	34	29	50	40	34	29	39	33	28	37	32	28	35	31	27	25
7	48	37	30	26	47	37	30	25	35	29	25	34	28	24	32	28	24	22
8	45	34	27	23	43	33	27	22	32	26	22	31	26	22	30	25	21	20
9	42	31	25	20	40	31	24	20	29	24	20	28	23	20	27	23	19	18
10	39	29	22	18	38	28	22	18	27	22	18	26	21	18	25	21	17	16

POLAR GRAPH



Maximum Candela = 4027 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)