

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PL4SA632UNIH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]BALLABS TEST NO. 14137.0  
 [ISSUE DATE] 10/4/2008  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [MANUFAC] TECHNICAL CONSUMER PRODUCTS, INC.  
 [LUMCAT] PL4SA632UNIH  
 [LUMINAIRE] POLAR BAY ENCLOSED & GASKETTED MIRO4 4' 32w T8 6-LAMP HBF  
 [LAMP] (6) 32-WATT T-8 LINEAR FLUORESCENTS  
 [BALLAST] (1) ADVANCE BALLAST #ICN-4P32-SC & ONE ICN-2P32-SC WATTS=141 REFL=86%  
 [\_ MOUNTING] SUSPENDED  
 [OTHER] THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS  
 [OTHER] TOTAL INPUT WATTS = 141 AT 120.0 VOLTS

**CHARACTERISTICS**

Total Rated Lamp Lumens	17700 (6 lamps)
Total Luminaire Efficiency	77.3 %
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	141
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.28
Spacing Criteria (90-270)	1.30
Spacing Criteria (Diagonal)	1.38
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	8231	7633	7990
55	7370	7227	7975
65	5720	6493	7056
75	3542	5082	5905
85	1223	3604	4557

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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>
<b>0</b>	4295	4295	4295	4295	4295
<b>5</b>	4361	4353	4345	4337	4337
<b>10</b>	4423	4407	4391	4383	4383
<b>15</b>	4419	4387	4395	4395	4387
<b>20</b>	4148	4116	4116	4116	4108
<b>25</b>	4048	4024	4024	4000	4000
<b>30</b>	3648	3624	3608	3632	3664
<b>35</b>	3473	3449	3449	3553	3600
<b>40</b>	3073	3058	3105	3265	3305
<b>45</b>	2727	2743	2863	2951	3055
<b>50</b>	2403	2395	2618	2826	2890
<b>55</b>	2028	2051	2355	2602	2666
<b>60</b>	1628	1700	2051	2307	2379
<b>65</b>	1205	1349	1732	1908	1948
<b>70</b>	830	1037	1373	1533	1564
<b>75</b>	495	758	1014	1181	1237
<b>80</b>	215	439	686	838	894
<b>85</b>	79	239	455	574	622
<b>90</b>	39	167	367	479	518
<b>95</b>	31	127	263	367	399
<b>100</b>	23	87	207	303	335
<b>105</b>	0	71	167	247	287
<b>110</b>	0	55	127	191	215
<b>115</b>	0	47	87	143	167
<b>120</b>	0	31	71	119	127
<b>125</b>	0	39	71	95	103
<b>130</b>	0	23	55	79	79
<b>135</b>	0	0	47	65	71
<b>140</b>	0	0	39	55	63
<b>145</b>	0	0	39	47	47
<b>150</b>	0	0	0	47	47
<b>155</b>	0	0	0	39	39
<b>160</b>	0	0	0	31	23
<b>165</b>	0	0	0	0	0
<b>170</b>	0	0	0	0	0
<b>175</b>	0	0	0	0	0
<b>180</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	3460.46	19.6	25.3
0-40	5619.63	31.7	41.1
0-60	9926.53	56.1	72.5
0-90	13045.93	73.7	95.3
90-120	532.54	3	3.9
90-130	588.43	3.3	4.3
90-150	634.87	3.6	4.6
90-180	642.48	3.6	4.7
0-180	13688.4	77.3	100

Total Luminaire Efficiency = 77.3%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	416.03
10-20	1223.15
20-30	1821.28
30-40	2159.17
40-50	2221.95
50-60	2084.94
60-70	1629.94
70-80	1009.3
80-90	480.16
90-100	273.68
100-110	166.42
110-120	92.44
120-130	55.89
130-140	30.01
140-150	16.43
150-160	6.73
160-170	.88
170-180	0

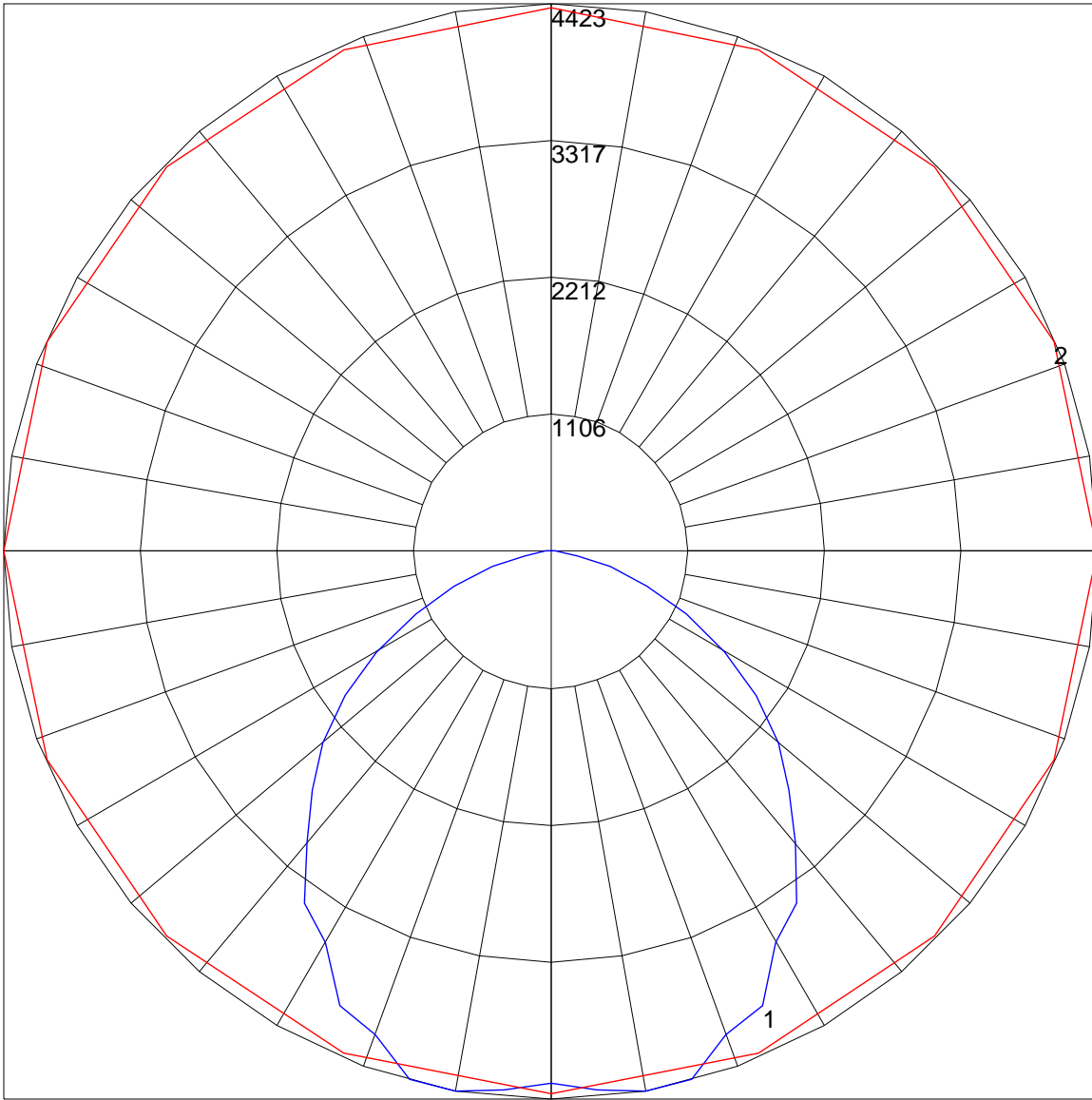
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	91	91	91	91	89	89	89	89	84	84	84	80	80	80	76	76	76	74
1	83	79	75	72	80	77	73	70	73	70	68	69	67	65	66	64	62	60
2	75	68	63	58	73	67	61	57	63	59	55	60	57	54	57	54	52	50
3	68	60	53	48	66	58	52	47	55	50	46	53	49	45	50	47	44	42
4	62	53	46	41	60	52	45	40	49	44	39	47	42	38	45	41	37	36
5	57	47	40	35	55	46	39	35	44	38	34	42	37	33	40	36	32	31
6	53	42	35	30	51	42	35	30	40	34	30	38	33	29	37	32	28	27
7	49	38	32	27	47	38	31	27	36	30	26	35	30	26	33	29	25	24
8	46	35	28	24	44	34	28	24	33	27	23	32	27	23	31	26	23	21
9	43	32	26	21	41	32	25	21	30	25	21	29	24	21	28	24	20	19
10	40	30	24	19	39	29	23	19	28	23	19	27	22	19	26	22	19	17

POLAR GRAPH



Maximum Candela = 4423 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)