

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
 [TEST LAB] 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 T8 LINEAR FLUORESCENTS
 [BALLAST] (1) ADVANCE BALLAST #ICN-4P32-SC & ONE ICN-2P32-SC
 [MOUNTING] SUSPENDED
 [OTHER] THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS
 [OTHER] TOTAL INPUT WATTS = 218 AT 120.0 VOLTS

CHARACTERISTICS

Lumens Per Lamp	2950 (6 lamps)
Total Lamp Lumens	17700
Luminaire Lumens	13688
Total Luminaire Efficiency	77 %
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	218
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)	4.00 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	8674	8054	8447
55	7757	7621	8432
65	6008	6840	7460
75	3706	5346	6244
85	1263	3779	4818

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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	4295	4295	4295	4295	4295
5	4361	4353	4345	4337	4337
10	4423	4407	4391	4383	4383
15	4419	4387	4395	4395	4387
20	4148	4116	4116	4116	4108
25	4048	4024	4024	4000	4000
30	3648	3624	3608	3632	3664
35	3473	3449	3449	3553	3600
40	3073	3058	3105	3265	3305
45	2727	2743	2863	2951	3055
50	2403	2395	2618	2826	2890
55	2028	2051	2355	2602	2666
60	1628	1700	2051	2307	2379
65	1205	1349	1732	1908	1948
70	830	1037	1373	1533	1564
75	495	758	1014	1181	1237
80	215	439	686	838	894
85	79	239	455	574	622
90	39	167	367	479	518
95	31	127	263	367	399
100	23	87	207	303	335
105	0	71	167	247	287
110	0	55	127	191	215
115	0	47	87	143	167
120	0	31	71	119	127
125	0	39	71	95	103
130	0	23	55	79	79
135	0	0	47	65	71
140	0	0	39	55	63
145	0	0	39	47	47
150	0	0	0	47	47
155	0	0	0	39	39
160	0	0	0	31	23
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	3460.46	19.60	25.30
0-40	5619.63	31.70	41.10
0-60	9926.53	56.10	72.50
0-90	13045.93	73.70	95.30
90-120	532.54	3.00	3.90
90-130	588.43	3.30	4.30
90-150	634.87	3.60	4.60
90-180	642.48	3.60	4.70
0-180	13688.4	77.30	100.00

Total Luminaire Efficiency = 77.30%

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	0.88
170-180	0.00

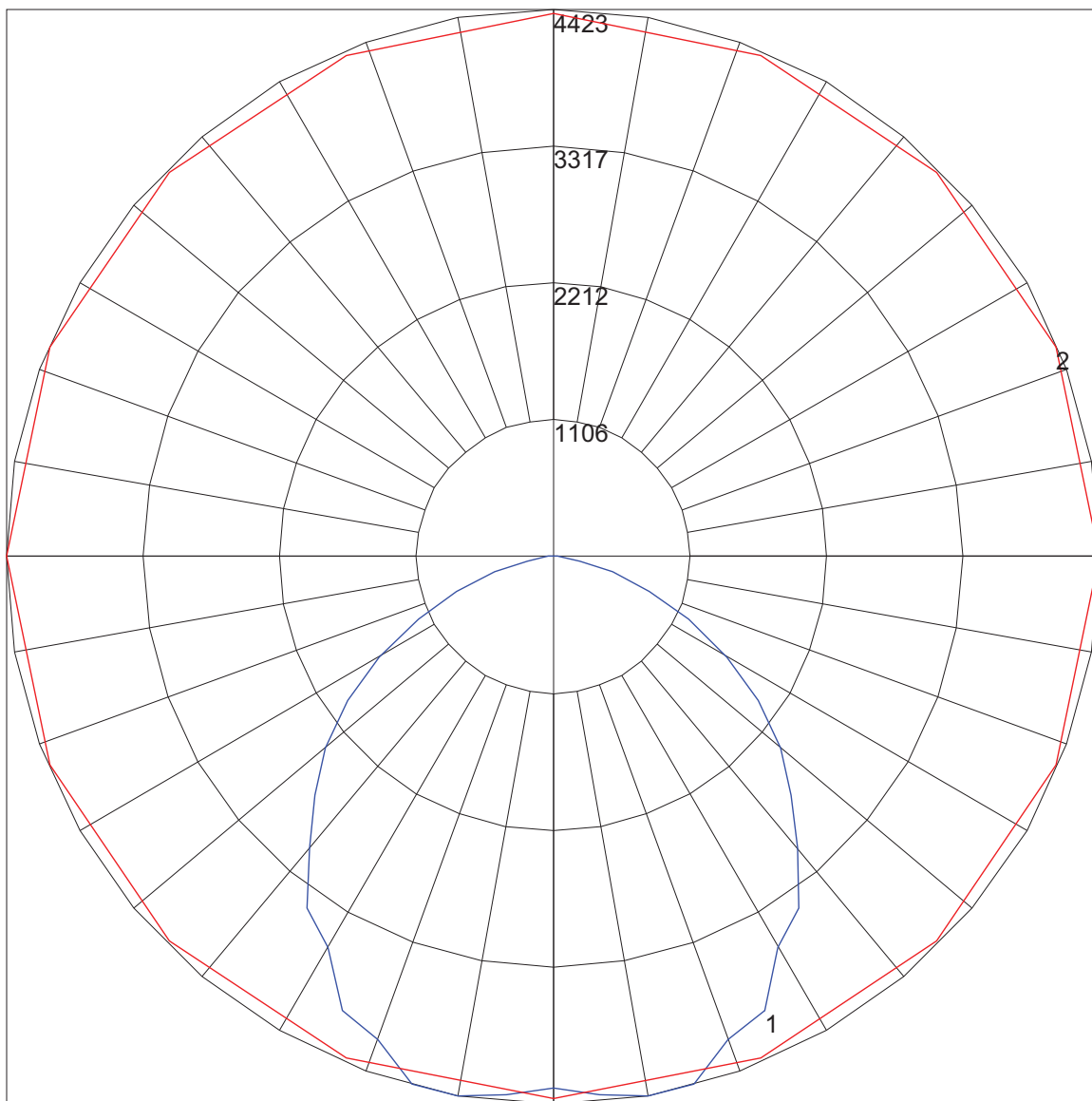
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0
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.)