



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL4WA654UNIV.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 14142.0
 [ISSUE DATE] 10/4/2008
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [MANUFAC] TECHNICAL CONSUMER PRODUCTS
 [LUMCAT] PL4WA654UNIV
 [LUMINAIRE] POLAR BAY ENCLOSED & GASKETTED WHITE REFL. 4' 54W T5HO 6-LAMPS
 [LAMP] (6) 32-WATT LINEAR FLUORESCENTS REFL=86%
 [BALLAST] (1) UNIVERSAL BALLAST #B454IUNV-E & B254IUNV-E WATTS=362
 [_ MOUNTING] SUSPENDED
 [OTHER] THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS
 [OTHER] TOTAL INPUT WATTS = 362 AT 120.0 VOLTS

CHARACTERISTICS

Total Rated Lamp Lumens	26700 (6 lamps)
Total Luminaire Efficiency	91.4 %
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	362
Ballast Factor	1.00
CIE Type	Direct
Spacing Criteria (0-180)	1.28
Spacing Criteria (90-270)	1.46
Spacing Criteria (Diagonal)	1.50
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	12469	13000	14786
55	11386	13687	15835
65	9320	13258	15079
75	6205	11889	14186
85	2853	10101	13486

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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	6312.62	6312.62	6312.62	6312.62	6312.62
5	6424.32	6424.32	6446.12	6468.82	6474.27
10	6457.02	6474.27	6518.77	6552.37	6575.08
15	6384.36	6435.22	6530.58	6619.58	6658.63
20	6065.6	6150.06	6334.42	6474.27	6518.77
25	5869.44	5987.5	6233.61	6423.42	6485.17
30	5349.06	5517.07	5830.39	6042.9	6116.46
35	5041.2	5276.41	5646.03	5897.59	5982.05
40	4588.02	4895.89	5304.56	5640.58	5785.89
45	4131.22	4612.54	4875.91	5379.03	5653.3
50	3658.98	4090.35	4688.83	5389.02	5596.08
55	3133.15	3637.18	4459.97	5136.55	5293.66
60	2557.38	3083.2	4023.15	4532.63	4655.23
65	1963.44	2557.38	3536.37	3989.55	4163.01
70	1404.02	2076.05	2920.64	3580.87	3777.04
75	867.29	1532.97	2372.11	2847.99	2971.5
80	425.02	1028.95	1722.78	2154.16	2260.41
85	184.36	620.27	1275.06	1706.43	1840.84
90	89.00	486.77	1051.65	1286.86	1354.07
95	80.83	246.11	413.21	559.43	609.38
100	66.30	128.05	257.01	391.42	446.81
105	0.00	117.15	173.46	262.46	301.51
110	0.00	99.90	150.75	195.25	206.15
115	0.00	94.45	128.05	167.10	173.46
120	0.00	99.90	133.50	150.75	161.65
125	0.00	72.65	156.20	150.75	150.75
130	0.00	55.40	145.31	178.91	178.91
135	0.00	0.00	127.14	166.19	170.73
140	0.00	0.00	99.90	145.31	156.20
145	0.00	0.00	83.55	117.15	128.05
150	0.00	0.00	66.30	89.00	99.90
155	0.00	0.00	55.40	72.65	72.65
160	0.00	0.00	0.00	0.00	60.85
165	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	5277.84	19.8	21.6
0-40	8759.78	32.8	35.9
0-60	16454.79	61.6	67.5
0-90	23310.67	87.3	95.6
90-120	846.41	3.2	3.5
90-130	949.8	3.6	3.9
90-150	1066.95	4	4.4
90-180	1084.38	4.1	4.4
0-180	24395.04	91.4	100

Total Luminaire Efficiency = 91.4%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	616.25
10-20	1831.8
20-30	2829.8
30-40	3481.94
40-50	3835.72
50-60	3859.29
60-70	3264.68
70-80	2294.62
80-90	1296.58
90-100	526.24
100-110	198.05
110-120	122.11
120-130	103.39
130-140	75.32
140-150	41.83
150-160	16.8
160-170	.63
170-180	0

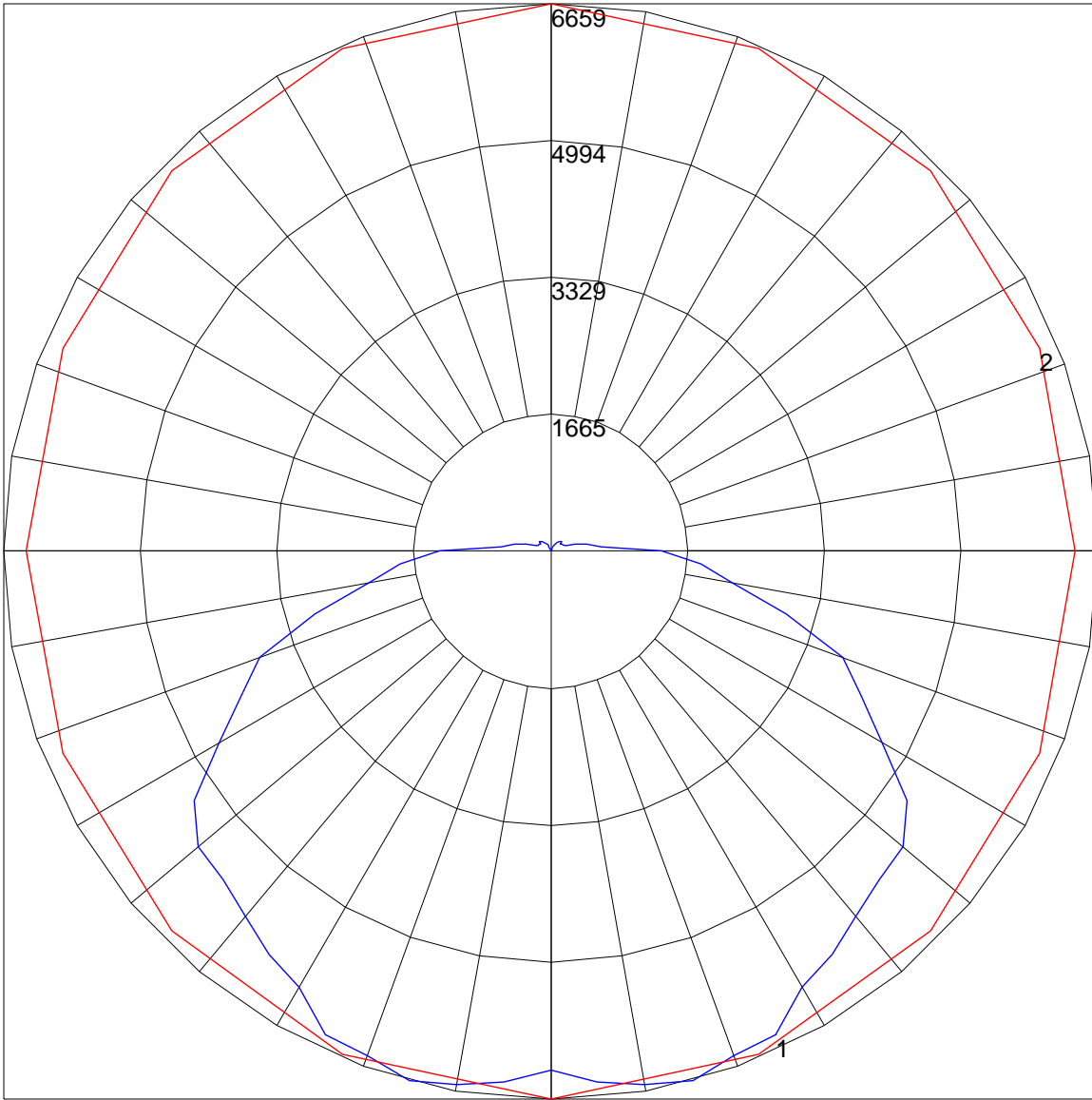
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	10	0
0	108	108	108	108	105	105	105	105	99	99	99	94	94	94	90	90	90	87
1	97	91	87	83	94	89	85	81	84	81	77	80	77	74	76	74	71	69
2	87	78	71	66	84	76	70	64	72	67	62	69	64	60	65	62	58	56
3	79	68	60	53	76	66	59	53	63	56	51	60	54	50	57	52	48	46
4	72	60	51	45	69	58	50	44	55	48	43	53	47	42	50	45	41	39
5	66	53	44	38	63	52	44	38	49	42	37	47	41	36	45	40	35	33
6	60	48	39	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29
7	56	43	35	29	54	42	34	28	40	33	28	39	32	27	37	31	27	25
8	52	39	31	25	50	38	31	25	37	30	25	35	29	24	34	28	24	22
9	48	36	28	23	47	35	28	23	34	27	22	32	26	22	31	26	22	20
10	45	33	25	21	44	32	25	20	31	25	20	30	24	20	29	23	19	18

POLAR GRAPH



Maximum Candela = 6658.63 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.)