



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL4SA654UNIV.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 14141.0
 [ISSUE DATE] 10/4/2008
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [MANUFAC] TECHNICAL CONSUMER PRODUCTS
 [LUMCAT] PL4SA654UNIV
 [LUMINAIRE] POLAR BAY ENCLOSED & GASKETTED MIRO4 4' 54W T5HO 6-LAMP
 [LAMP] (6) 54-WATT T5HO LINEAR FLUORESCENTS
 [BALLASTS] (1) UNIVERSAL BALLAST #B454IUNV-E & ONE B254IUNV-E WATTS=362
 [_ MOUNTING] SUSPENDED
 [OTHER] THE 0 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)	1.24
Spacing Criteria (90-270)	1.38
Spacing Criteria (Diagonal)	1.42
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	13656	13664	14486
55	12158	12912	13809
65	9613	11368	12747
75	5965	10405	12313
85	2586	8288	11064

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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	7197.17	7197.17	7197.17	7197.17	7197.17
5	7288.89	7305.24	7356.1	7400.6	7417.85
10	7352.46	7408.77	7515.02	7593.13	7615.83
15	7240.76	7369.72	7548.63	7665.78	7683.03
20	6893.84	7084.56	7347.01	7453.27	7465.07
25	6625.03	6888.39	7145.4	7179.00	7185.36
30	5982.05	6317.16	6485.17	6557.82	6608.68
35	5612.43	5992.95	6099.2	6295.36	6323.52
40	5081.16	5488.92	5628.78	5824.94	5903.04
45	4524.45	4973.99	5124.75	5214.65	5538.87
50	3966.84	4331.01	4700.64	5058.45	5136.55
55	3345.66	3692.58	4207.51	4532.63	4616.18
60	2679.98	3021.45	3575.43	3906.00	3955.94
65	2025.2	2394.82	3032.35	3362.92	3519.12
70	1404.02	1851.74	2462.02	3111.36	3284.81
75	833.69	1336.81	2076.05	2456.57	2579.17
80	391.42	883.64	1448.52	1851.74	1924.39
85	167.10	520.38	1046.2	1409.46	1510.27
90	83.55	396.87	860.94	1018.05	1062.55
95	44.50	239.75	385.97	520.38	570.32
100	60.85	117.15	251.56	380.52	419.57
105	78.10	106.25	173.46	257.01	290.61
110	72.65	99.90	150.75	189.81	206.15
115	72.65	89.00	139.86	173.46	184.36
120	0.00	99.90	128.05	150.75	161.65
125	0.00	78.10	139.86	145.31	150.75
130	0.00	66.30	139.86	173.46	167.10
135	0.00	0.00	117.15	156.20	162.56
140	0.00	0.00	99.90	145.31	156.20
145	0.00	0.00	89.00	122.60	128.05
150	0.00	0.00	66.30	94.45	99.90
155	0.00	0.00	0.00	83.55	83.55
160	0.00	0.00	0.00	29.97	29.97
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	6014.31	22.5	24.6
0-40	9807.08	36.7	40.2
0-60	17409.51	65.2	71.3
0-90	23378.22	87.6	95.8
90-120	790.39	3	3.2
90-130	891.31	3.3	3.7
90-150	1006.89	3.8	4.1
90-180	1022.92	3.8	4.2
0-180	24401.13	91.4	100

Total Luminaire Efficiency = 91.4%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	705.33
10-20	2108.37
20-30	3200.61
30-40	3792.77
40-50	3949.72
50-60	3652.71
60-70	2893.01
70-80	1997.55
80-90	1078.15
90-100	460.46
100-110	199.43
110-120	130.5
120-130	100.92
130-140	72.69
140-150	42.89
150-160	15.1
160-170	.93
170-180	0

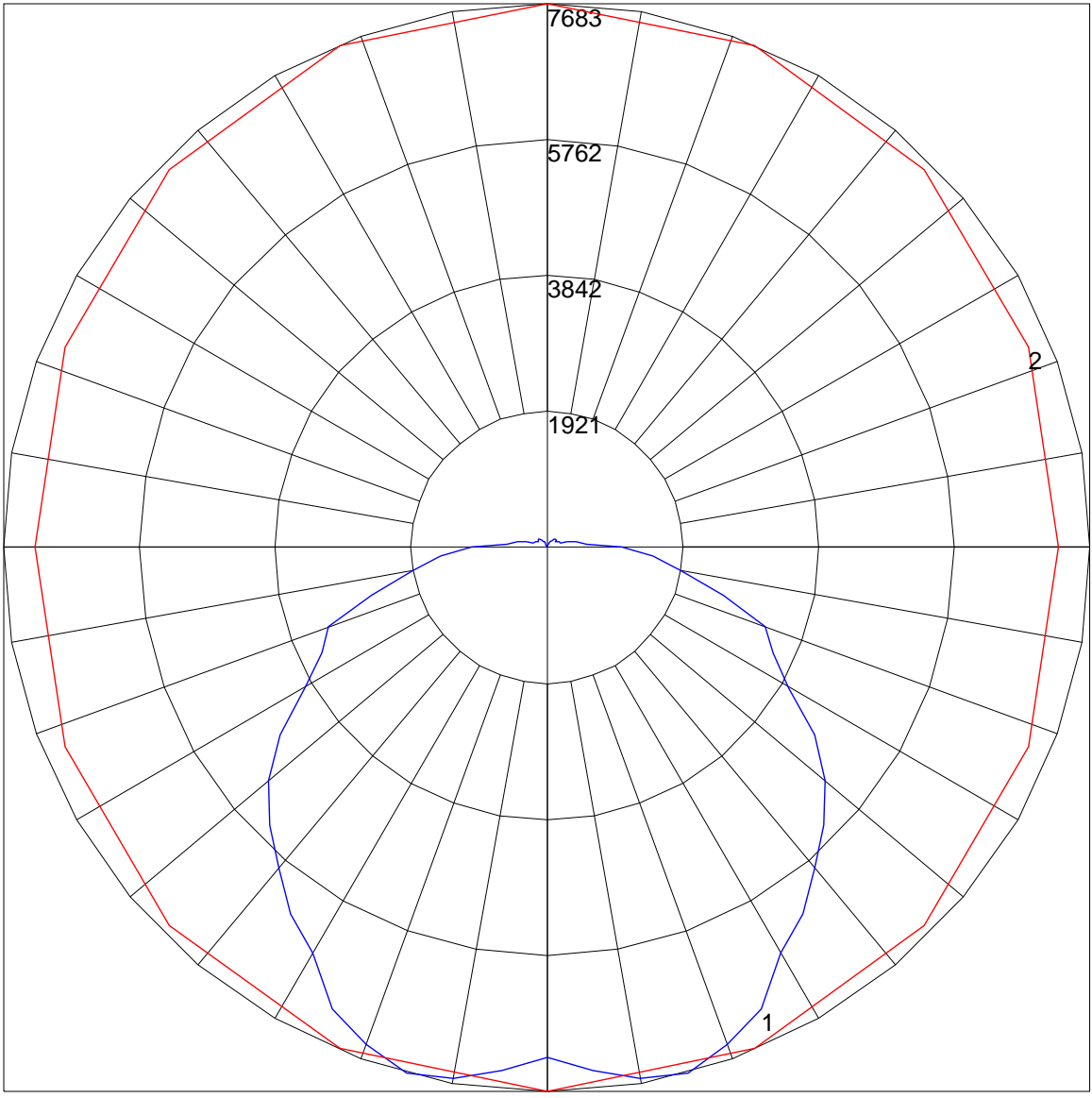
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88
1	97	92	88	84	94	90	86	82	85	82	79	81	78	76	77	75	73	71
2	88	80	73	68	85	78	72	67	74	69	64	70	66	62	67	64	60	58
3	80	70	62	56	77	68	61	55	65	59	54	62	57	52	59	55	51	49
4	73	62	54	47	71	60	53	47	58	51	46	55	49	45	53	48	43	41
5	67	55	47	40	65	54	46	40	51	45	39	49	43	38	47	42	38	36
6	62	50	41	35	60	49	41	35	46	39	34	45	38	34	43	37	33	31
7	58	45	37	31	56	44	36	31	42	35	30	41	34	30	39	33	29	27
8	54	41	33	28	52	40	33	27	39	32	27	37	31	27	36	30	26	24
9	50	38	30	25	48	37	30	25	36	29	24	34	28	24	33	28	24	22
10	47	35	27	22	45	34	27	22	33	26	22	32	26	22	31	25	21	20

POLAR GRAPH



Maximum Candela = 7683.03 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.)