

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTDATE] 11 December 2024

[TESTLAB] Spectra Lux

[ISSUEDATE]

[TEST] S2412112-R1

[MANUFAC] BEGHELLI

[LUMCAT] PL-RMT (Wall Mount Asymmetrical)

[LUMINAIRE] PLURALUCE-WALL MOUNT ASYMMETRIC

[LAMP] Clusters of Seoul Semiconductors 3535 Dome LEDs c/w Beluce Driver RT-1 @ 12.00V DC

[BURNING] Axial (1,346 Luminaire Lumens)

[OPTICS] Wall Mount Asymmetrical Lenses

[LENS] None

[HOUSING] White Painted Fabricated

[NOMINAL COLOR] 4000 K

[DRIVE CURRENT] 778 mA / LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	12.36
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	3	3	3	3	3	3	3	3	3	3
2.5	7	7	6	7	7	7	7	7	7	6
5.0	12	12	12	12	11	12	11	11	10	10
7.5	18	18	17	17	17	17	16	16	15	14
10.0	23	23	22	23	22	22	21	20	19	18
12.5	29	29	29	29	27	27	26	25	23	22
15.0	36	36	35	35	34	34	32	31	29	27
17.5	43	43	42	42	41	40	38	37	34	31
20.0	50	50	49	49	47	46	44	42	40	36
22.5	56	56	55	55	53	52	50	47	44	41
25.0	65	64	63	62	59	57	55	52	49	45
27.5	88	85	82	80	72	65	60	57	54	49
30.0	112	110	106	104	95	85	71	64	60	55
32.5	132	131	129	127	118	107	91	78	71	62
35.0	151	150	148	145	137	128	113	99	88	70
37.5	176	174	171	168	159	149	134	119	103	83
40.0	207	205	202	198	187	177	160	142	122	99
42.5	234	233	232	231	223	212	193	174	149	123
45.0	258	259	260	261	256	251	235	215	190	155
47.5	275	277	281	285	286	287	279	266	241	205
50.0	286	290	296	305	308	315	317	316	303	272
52.5	290	297	307	319	326	339	351	362	365	351
55.0	285	296	313	331	343	359	380	403	425	433
57.5	269	285	312	335	354	375	404	440	483	525
60.0	250	270	307	333	357	385	422	471	540	616
62.5	228	250	305	333	355	381	429	498	588	687
65.0	209	231	308	327	346	370	423	510	623	720
67.5	188	218	308	326	341	353	405	503	640	732
70.0	166	209	302	323	338	343	377	478	637	730
72.5	158	202	298	318	330	329	353	437	607	714
75.0	152	197	295	322	327	311	323	399	540	675
77.5	148	190	292	326	330	306	295	352	472	587
80.0	144	184	287	334	333	310	287	310	400	496
82.5	139	177	282	339	344	326	284	281	338	401
85.0	134	172	277	351	366	353	292	257	284	321
87.5	136	173	283	372	399	413	321	240	237	256
90.0	142	181	295	421	495	487	341	220	194	201
92.5	160	203	331	517	557	493	322	195	159	157
95.0	179	229	376	494	511	461	294	175	144	138
97.5	185	241	399	473	467	398	262	165	147	147
100.0	188	246	402	454	429	355	239	169	170	181
102.5	189	247	396	419	394	324	231	188	209	232
105.0	181	239	374	383	361	294	229	213	257	302
107.5	165	223	341	348	330	273	231	245	313	387
110.0	153	212	316	317	299	263	241	286	384	479
112.5	142	203	289	290	280	261	264	332	468	566
115.0	132	193	266	267	266	266	297	391	545	631
117.5	132	180	246	250	260	285	337	448	598	667
120.0	150	178	234	250	271	309	379	487	622	687
122.5	180	203	237	260	289	341	410	500	628	697
125.0	211	228	251	279	314	359	418	502	622	691
127.5	247	259	276	297	325	365	419	493	598	673
130.0	268	276	288	307	331	365	410	468	541	622
132.5	280	286	296	313	335	362	397	433	474	501

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

CANDELA TABULATION - (Cont.)

135.0	286	292	301	316	335	355	376	395	403	380
137.5	289	294	303	315	328	337	349	351	331	277
140.0	281	289	298	304	313	315	315	295	252	188
142.5	2	22	278	287	288	278	260	225	179	136
145.0	0	2	170	254	244	217	190	157	130	95
147.5	0	1	54	99	178	153	135	113	89	71
150.0	0	0	1	19	120	111	97	80	68	60
152.5	0	0	0	3	47	78	71	64	59	54
155.0	0	0	0	1	29	53	60	56	53	49
157.5	0	0	1	1	5	29	51	51	48	45
160.0	0	0	0	1	1	13	27	44	43	41
162.5	0	0	0	1	1	2	18	23	36	36
165.0	0	0	0	1	1	1	2	10	16	17
167.5	0	0	1	1	1	1	1	1	3	3
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	3	3	3	3	3	3	3	3	3	3
2.5	6	6	5	5	4	4	3	3	3	3
5.0	9	8	7	6	5	5	4	3	3	2
7.5	12	11	10	9	7	6	5	4	3	2
10.0	16	15	13	11	9	7	5	4	3	2
12.5	20	18	16	14	12	9	6	4	2	2
15.0	24	22	19	16	13	11	7	3	2	2
17.5	28	25	22	18	15	12	7	4	2	2
20.0	32	29	25	21	17	13	8	4	2	1
22.5	36	32	28	24	19	15	8	4	2	1
25.0	40	36	31	27	22	16	9	3	2	1
27.5	44	40	35	29	24	18	10	3	2	1
30.0	49	44	38	32	26	20	11	3	1	1
32.5	54	48	42	35	28	21	12	2	1	1
35.0	59	50	44	37	30	23	13	2	1	1
37.5	59	50	44	38	31	25	15	2	1	1
40.0	69	51	44	40	33	26	16	2	1	1
42.5	90	59	46	41	35	27	18	2	1	1
45.0	116	77	52	43	38	29	19	2	1	1
47.5	153	107	64	45	37	30	19	2	1	1
50.0	211	147	89	49	35	31	19	3	1	1
52.5	297	216	135	69	38	32	20	3	1	1
55.0	404	339	228	129	54	33	22	3	1	1
57.5	528	484	367	235	106	38	24	4	1	1
60.0	631	599	492	315	143	45	25	4	1	1
62.5	689	656	567	362	149	40	25	4	1	1
65.0	716	680	594	375	104	39	24	4	1	1
67.5	731	693	594	342	77	39	22	4	1	1
70.0	733	696	584	292	69	42	21	4	1	1
72.5	726	691	564	253	65	43	21	4	1	1
75.0	705	674	546	239	64	44	23	4	1	1
77.5	663	645	520	227	65	45	25	5	1	1
80.0	561	592	480	216	65	46	24	5	1	1

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

CANDELA TABULATION - (Cont.)

82.5	453	472	399	176	64	45	24	5	1	1
85.0	352	363	272	131	65	43	22	4	1	1
87.5	270	263	189	108	64	42	20	3	1	1
90.0	205	191	138	95	64	43	18	3	1	1
92.5	158	147	114	89	65	43	16	3	1	1
95.0	139	132	108	87	66	43	16	3	1	1
97.5	144	139	110	87	66	43	16	3	1	1
100.0	184	177	124	90	66	42	16	3	1	1
102.5	247	256	190	103	67	44	18	3	1	1
105.0	338	359	292	147	69	46	20	4	1	1
107.5	430	451	380	188	68	46	22	4	1	1
110.0	524	533	447	213	68	46	24	4	1	1
112.5	602	586	486	227	69	44	23	5	1	1
115.0	647	620	516	260	71	43	20	5	1	1
117.5	674	639	546	309	77	42	18	6	1	1
120.0	690	648	567	373	95	43	17	6	1	1
122.5	692	650	578	426	144	44	17	6	1	1
125.0	686	644	576	432	179	48	19	7	1	1
127.5	665	615	539	378	154	49	20	7	1	1
130.0	619	554	423	237	95	39	21	7	1	1
132.5	484	373	225	135	63	32	21	7	1	1
135.0	323	210	134	82	45	27	21	7	1	1
137.5	204	133	87	57	37	27	20	5	1	1
140.0	137	89	63	48	35	27	19	5	1	1
142.5	95	68	54	44	36	26	18	5	1	1
145.0	74	59	50	42	35	25	18	5	1	1
147.5	61	53	45	39	33	23	17	5	1	1
150.0	54	47	41	37	27	22	16	5	1	1
152.5	49	44	40	34	24	12	11	4	1	1
155.0	45	41	37	28	21	1	1	1	1	1
157.5	42	38	32	24	1	1	1	1	1	1
160.0	38	33	25	9	1	1	0	0	1	1
162.5	31	25	13	1	1	1	0	1	1	1
165.0	22	6	1	1	1	0	1	0	1	1
167.5	1	1	1	1	1	0	1	0	1	1
170.0	1	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	3	3	3	3	3	3	3	3	3	3
2.5	3	2	2	2	2	2	3	3	3	2
5.0	2	2	2	2	2	2	2	3	2	2
7.5	2	2	2	2	2	2	2	2	2	2
10.0	2	2	2	2	2	2	2	2	2	2
12.5	2	2	2	2	2	2	2	2	2	2
15.0	2	2	2	2	2	2	2	2	2	2
17.5	2	2	2	2	2	2	2	2	2	2
20.0	2	2	2	2	2	2	2	2	3	2
22.5	2	2	2	2	2	2	2	2	2	2
25.0	2	2	2	2	2	2	2	2	2	2
27.5	2	2	2	2	2	2	2	2	2	2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

CANDELA TABULATION - (Cont.)

30.0	1	1	2	2	2	2	2	2	2	2
32.5	1	2	2	2	2	2	2	2	2	2
35.0	1	1	2	2	2	2	2	2	2	2
37.5	1	1	2	2	2	2	2	2	2	2
40.0	1	2	2	2	2	2	2	2	2	2
42.5	1	2	2	2	2	2	2	2	2	2
45.0	1	1	2	2	2	2	2	2	2	2
47.5	1	1	2	2	2	2	2	2	2	2
50.0	1	2	1	2	2	2	2	2	2	2
52.5	1	1	2	2	2	2	2	2	2	2
55.0	1	2	2	1	2	2	2	2	2	2
57.5	1	1	2	2	2	2	2	2	2	2
60.0	1	1	1	2	2	2	2	2	2	2
62.5	1	1	1	2	2	2	2	2	2	2
65.0	1	1	1	1	1	2	2	2	2	2
67.5	1	1	1	1	1	2	2	2	2	2
70.0	1	1	1	1	2	2	2	2	2	2
72.5	1	1	1	2	2	2	2	2	2	2
75.0	1	1	1	1	1	2	2	2	2	2
77.5	1	1	1	1	1	2	1	2	2	2
80.0	1	1	1	1	1	1	1	2	2	2
82.5	1	1	1	1	2	1	2	2	2	2
85.0	1	1	1	1	1	2	2	2	1	2
87.5	1	1	1	1	1	2	1	2	2	2
90.0	1	1	1	1	1	1	1	1	2	2
92.5	1	1	1	1	1	1	2	1	2	2
95.0	1	1	1	1	1	1	2	2	1	2
97.5	1	1	1	1	1	1	1	2	1	1
100.0	1	1	1	1	1	1	1	1	2	1
102.5	1	1	1	1	1	1	1	1	2	2
105.0	1	1	1	1	1	1	2	2	2	2
107.5	1	1	1	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	1
112.5	1	1	1	1	1	1	1	1	1	1
115.0	1	1	1	1	1	1	1	1	1	1
117.5	1	1	1	1	1	1	1	1	1	1
120.0	1	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
137.5	1	1	1	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	2	2
150.0	1	1	1	1	1	1	1	2	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1
162.5	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1
167.5	1	1	1	1	1	1	1	1	1	1

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

CANDELA TABULATION - (Cont.)

170.0	1	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	2	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	3	3	3	3	3	3	3
2.5	2	2	2	1	1	1	1
5.0	2	2	1	1	1	1	1
7.5	2	2	1	1	1	1	1
10.0	2	2	2	1	1	1	1
12.5	2	2	1	1	1	1	1
15.0	2	2	1	1	1	1	1
17.5	2	2	1	1	1	1	1
20.0	2	2	1	1	1	1	1
22.5	2	2	1	1	1	1	1
25.0	2	1	1	1	1	1	1
27.5	2	2	1	1	1	1	1
30.0	2	2	1	1	1	1	1
32.5	2	2	1	1	1	1	1
35.0	2	2	1	1	1	1	1
37.5	2	2	1	1	1	1	1
40.0	2	2	1	1	1	1	1
42.5	2	2	1	1	1	1	1
45.0	2	2	1	1	1	1	1
47.5	2	2	1	1	1	1	1
50.0	2	2	1	1	1	1	1
52.5	2	2	1	1	1	1	1
55.0	2	2	1	1	1	1	1
57.5	2	2	1	1	1	1	1
60.0	2	2	1	1	1	1	1
62.5	2	2	1	1	1	1	1
65.0	2	2	1	1	1	1	1
67.5	2	1	1	1	1	1	1
70.0	2	1	1	1	1	1	1
72.5	2	1	1	1	1	1	1
75.0	1	2	1	1	1	1	1
77.5	2	2	1	1	1	1	1
80.0	2	1	2	1	1	1	1
82.5	2	1	1	1	1	1	1
85.0	2	2	1	1	1	1	1
87.5	1	2	1	1	1	1	1
90.0	2	1	1	1	1	1	1
92.5	2	1	1	1	1	1	1
95.0	1	1	1	1	1	1	1
97.5	1	1	1	1	1	1	1
100.0	1	2	1	1	1	1	1
102.5	2	1	1	1	1	1	1
105.0	2	2	1	1	1	1	1
107.5	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1
112.5	1	1	1	1	1	1	1
115.0	1	1	1	1	1	1	1

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

CANDELA TABULATION - (Cont.)

117.5	1	1	1	1	1	1	1
120.0	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1
137.5	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1
142.5	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	0
160.0	1	1	1	1	1	1	1
162.5	1	1	1	1	1	1	1
165.0	1	1	1	1	1	0	1
167.5	1	1	1	1	1	0	1
170.0	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4.35	N.A.	0.30
0-30	14.63	N.A.	1.10
0-40	40.27	N.A.	3.00
0-60	216.13	N.A.	16.00
0-80	561.26	N.A.	41.60
0-90	687.13	N.A.	50.90
10-90	686.52	N.A.	50.90
20-40	35.92	N.A.	2.70
20-50	93.24	N.A.	6.90
40-70	352.53	N.A.	26.10
60-80	345.13	N.A.	25.60
70-80	168.46	N.A.	12.50
80-90	125.87	N.A.	9.30
90-110	226.50	N.A.	16.80
90-120	374.43	N.A.	27.80
90-130	528.56	N.A.	39.20
90-150	653.99	N.A.	48.50
90-180	661.99	N.A.	49.10
110-180	435.50	N.A.	32.30
0-180	1349.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.62
10-20	3.74
20-30	10.28
30-40	25.64
40-50	57.32
50-60	118.54
60-70	176.67
70-80	168.46
80-90	125.87
90-100	107.53
100-110	118.97
110-120	147.93
120-130	154.13
130-140	92.89
140-150	32.55
150-160	6.80
160-170	1.12
170-180	0.09

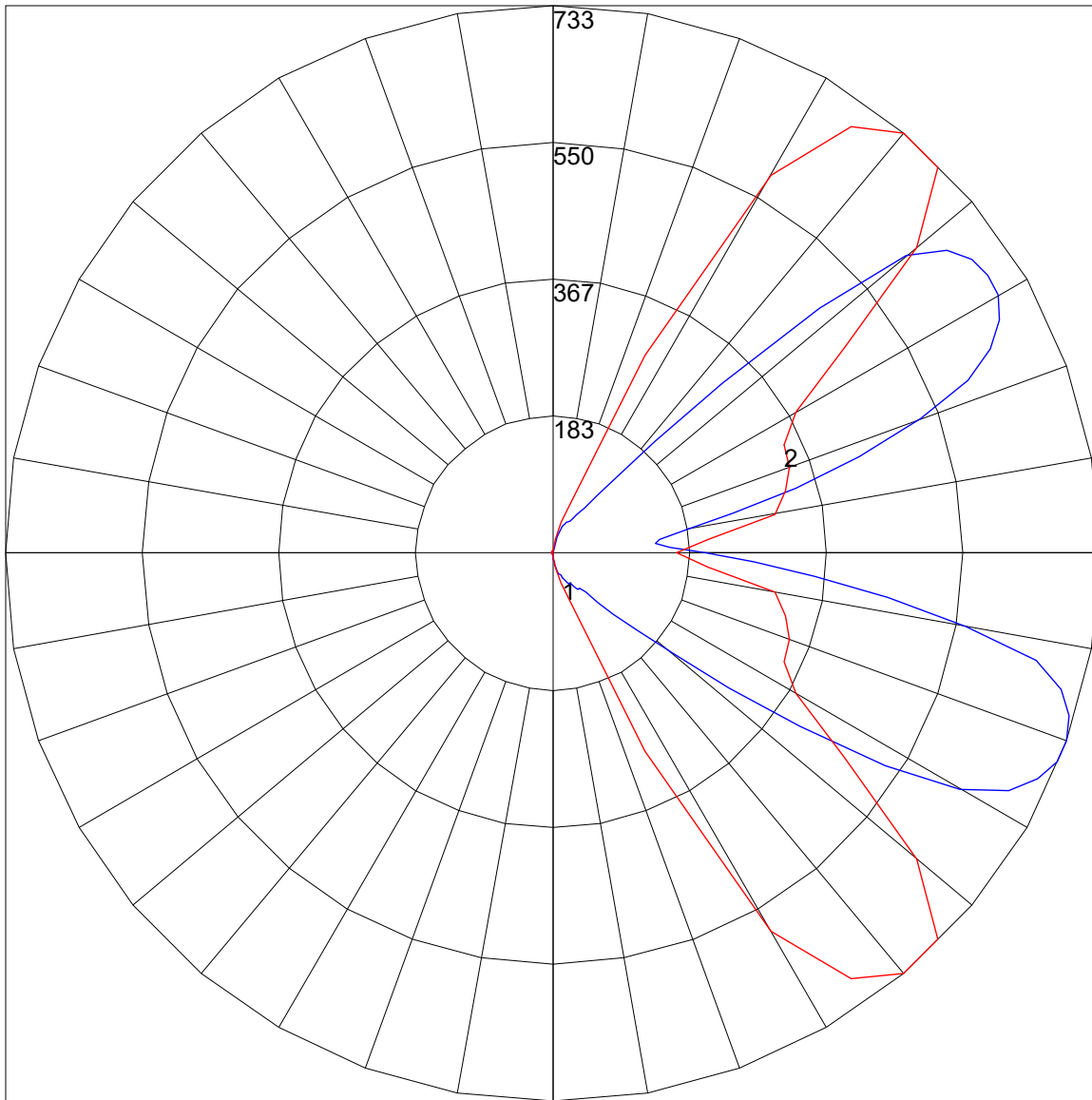
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-WALL ASYMM.IES

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	92	85	79	74	84	78	73	68	65	61	57	53	49	46	41	39	37	31
2	81	71	62	55	74	64	57	50	53	47	42	42	37	33	32	29	25	20
3	72	60	50	42	65	54	45	38	44	37	31	35	29	25	26	22	18	14
4	65	51	41	33	59	46	37	30	38	30	25	29	24	19	22	17	14	10
5	59	44	34	27	53	40	31	25	33	25	20	25	20	15	19	14	11	7
6	54	39	29	22	48	36	27	20	29	22	16	22	17	12	16	12	8	5
7	49	35	25	19	44	32	23	17	26	19	14	20	14	10	15	10	7	4
8	45	31	22	16	41	28	20	15	23	16	12	18	13	9	13	9	6	3
9	42	28	20	14	38	26	18	13	21	14	10	16	11	7	12	8	5	3
10	39	26	18	12	36	23	16	11	19	13	9	15	10	6	11	7	4	2

POLAR GRAPH



Maximum Candela = 733 Located At Horizontal Angle = 50, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)