



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : PLURALUCE CEILING MOUNT SYMMETRICAL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA: LM-63-2019  
 [TESTDATE] 11 December 2024  
 [TESTLAB] Spectra Lux  
 [TEST] S2412114-R1  
 [MANUFAC] BeLuce Canada Inc.  
 [LUMCAT] PLURALUCE CEILING MOUNT SYMMETRICAL  
 [LUMINAIRE] PLURALUCE REMOTE/UNIT  
 [LAMP] Clusters of Seoul Semiconductors 3535 Dome LEDs c/w BeLuce Driver RT-1 @ 12.00V DC  
 [BURNING] Vertical Base Up (1,406 Luminaire Lumens)  
 [OPTICS] Ceiling Mount Symmetrical 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	1410
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	12.57
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.02
Spacing Criterion (90-270)	2.96
Spacing Criterion (Diagonal)	2.80
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	403930	387384	397117
55	751149	676754	700753
65	34199	548814	34199
75	37228	55843	31910
85	63174	31587	15793

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**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>
<b>0.0</b>	205	205	205	205	205	205	205	205	205	205
<b>2.5</b>	206	206	206	206	206	207	207	207	207	207
<b>5.0</b>	208	208	208	209	209	209	210	210	210	210
<b>7.5</b>	210	210	211	211	211	212	212	213	213	213
<b>10.0</b>	213	213	213	214	215	215	216	216	216	217
<b>12.5</b>	217	217	218	218	218	219	219	219	220	220
<b>15.0</b>	222	222	222	223	223	223	224	224	224	225
<b>17.5</b>	228	228	228	229	229	229	229	229	229	230
<b>20.0</b>	239	238	238	238	237	236	236	236	236	237
<b>22.5</b>	249	248	248	247	247	246	245	244	244	245
<b>25.0</b>	259	258	257	257	256	255	255	255	254	255
<b>27.5</b>	275	274	272	271	269	267	266	265	266	268
<b>30.0</b>	289	288	287	286	283	280	279	279	279	281
<b>32.5</b>	303	302	300	299	296	295	295	293	293	294
<b>35.0</b>	322	320	318	316	312	311	311	310	309	311
<b>37.5</b>	339	338	336	332	329	328	328	327	327	329
<b>40.0</b>	360	360	357	352	349	347	348	346	346	348
<b>42.5</b>	383	383	380	375	373	371	372	370	369	370
<b>45.0</b>	415	414	408	402	402	400	400	398	397	398
<b>47.5</b>	444	443	436	431	430	430	429	428	429	430
<b>50.0</b>	495	492	482	475	471	467	464	459	460	463
<b>52.5</b>	551	546	532	524	520	514	512	508	505	508
<b>55.0</b>	626	619	596	587	580	568	566	560	559	564
<b>57.5</b>	594	601	600	609	625	629	623	611	611	615
<b>60.0</b>	311	343	386	427	492	564	612	648	658	663
<b>62.5</b>	35	40	53	83	156	300	410	514	587	609
<b>65.0</b>	21	22	24	28	35	46	85	207	315	337
<b>67.5</b>	18	18	19	20	24	29	34	44	72	83
<b>70.0</b>	17	17	17	18	19	23	25	28	32	35
<b>72.5</b>	17	17	17	17	18	19	21	23	25	25
<b>75.0</b>	14	15	16	17	16	15	18	19	20	21
<b>77.5</b>	14	14	15	13	12	13	15	15	15	15
<b>80.0</b>	11	11	11	11	11	10	11	11	11	11
<b>82.5</b>	9	9	9	8	8	8	8	8	7	7
<b>85.0</b>	8	8	8	7	7	5	4	4	4	4
<b>87.5</b>	6	6	6	4	3	3	2	2	2	1
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0
<b>92.5</b>	0	0	0	0	0	0	0	0	0	0
<b>95.0</b>	0	0	0	0	0	0	0	0	0	0
<b>97.5</b>	0	0	0	0	0	0	0	0	0	0
<b>100.0</b>	0	0	0	0	0	0	0	0	0	0
<b>102.5</b>	0	0	0	0	0	0	0	0	0	0
<b>105.0</b>	0	0	0	0	0	0	0	0	0	0
<b>107.5</b>	0	0	0	0	0	0	0	0	0	0
<b>110.0</b>	0	0	0	0	0	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0	0	0	0	0	0
<b>115.0</b>	0	0	0	0	0	0	0	0	0	0
<b>117.5</b>	0	0	0	0	0	0	0	0	0	0
<b>120.0</b>	0	0	0	0	0	0	0	0	0	0
<b>122.5</b>	0	0	0	0	0	0	0	0	0	0
<b>125.0</b>	0	0	0	0	0	0	0	0	0	0
<b>127.5</b>	0	0	0	0	0	0	0	0	0	0
<b>130.0</b>	0	0	0	0	0	0	0	0	0	0
<b>132.5</b>	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	205	205	205	205	205	205	205	205	205	205
2.5	207	207	207	207	207	207	207	207	207	207
5.0	210	210	210	210	210	210	210	210	210	210
7.5	214	213	214	214	214	214	213	213	213	213
10.0	217	217	217	217	217	217	217	217	217	217
12.5	220	221	221	222	222	222	222	221	222	221
15.0	225	225	226	226	227	227	227	227	227	227
17.5	230	231	231	232	233	233	233	233	233	233
20.0	237	238	239	240	241	241	242	242	242	242
22.5	246	247	248	249	250	251	251	252	252	252
25.0	256	257	258	260	261	262	262	263	263	263
27.5	268	269	270	272	274	275	276	276	277	276
30.0	282	282	284	286	288	290	291	291	291	291
32.5	296	296	298	300	302	304	306	306	306	306
35.0	312	312	314	316	319	322	324	324	325	324
37.5	329	329	331	334	336	338	340	341	341	341
40.0	348	347	349	352	355	358	359	359	359	359
42.5	370	370	372	376	378	380	381	382	382	382
45.0	398	398	399	402	406	408	408	407	408	407
47.5	429	429	432	433	435	436	435	434	435	434
50.0	463	462	465	472	478	483	483	478	477	478
52.5	509	510	515	521	525	530	529	525	523	525
55.0	563	561	568	576	578	581	583	582	584	582
57.5	619	621	628	631	624	610	594	581	580	581
60.0	660	661	636	581	515	451	404	377	365	377
62.5	595	548	460	336	199	99	62	48	43	48
65.0	320	250	115	48	34	28	24	22	21	22
67.5	73	49	35	28	23	20	18	18	17	18
70.0	33	29	25	21	18	17	17	17	17	17
72.5	25	24	20	17	16	17	15	15	15	15
75.0	20	19	18	14	14	13	12	12	12	12
77.5	15	15	14	12	11	11	11	11	11	11
80.0	10	10	9	8	8	7	7	7	6	7

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CANDELA TABULATION - (Cont.)

82.5	6	5	5	4	4	4	4	4	4	4
85.0	4	3	3	3	3	3	2	2	2	2
87.5	2	1	1	1	1	1	1	1	1	1
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	205	205	205	205	205	205	205	205	205	205
2.5	207	207	207	207	207	207	207	207	207	207
5.0	210	210	210	210	210	210	210	210	210	210
7.5	213	214	214	214	214	213	214	213	213	213
10.0	217	217	217	217	217	217	217	217	216	216
12.5	222	222	222	222	221	221	220	220	220	219
15.0	227	227	227	226	226	225	225	225	224	224
17.5	233	233	233	232	231	231	230	230	229	229
20.0	242	241	241	240	239	238	237	237	236	236
22.5	251	251	250	249	248	247	246	245	244	244
25.0	262	262	261	260	258	257	256	255	254	255
27.5	276	275	274	272	270	269	268	268	266	265

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**CANDELA TABULATION - (Cont.)**

30.0	291	290	288	286	284	282	282	281	279	279
32.5	306	304	302	300	298	296	296	294	293	293
35.0	324	322	319	316	314	312	312	311	309	310
37.5	340	338	336	334	331	329	329	329	327	327
40.0	359	358	355	352	349	347	348	348	346	346
42.5	381	380	378	376	372	370	370	370	369	370
45.0	408	408	406	402	399	398	398	398	397	398
47.5	435	436	435	433	432	429	429	430	429	428
50.0	483	483	478	472	465	462	463	463	460	459
52.5	529	530	525	521	515	510	509	508	505	508
55.0	583	581	578	576	568	561	563	564	559	560
57.5	594	610	624	631	628	621	619	615	611	611
60.0	404	451	515	581	636	661	660	663	658	648
62.5	62	99	199	336	460	548	595	609	587	514
65.0	24	28	34	48	115	250	320	337	315	207
67.5	18	20	23	28	35	49	73	83	72	44
70.0	17	17	18	21	25	29	33	35	32	28
72.5	15	17	16	17	20	24	25	25	25	23
75.0	12	13	14	14	18	19	20	21	20	19
77.5	11	11	11	12	14	15	15	15	15	15
80.0	7	7	8	8	9	10	10	11	11	11
82.5	4	4	4	4	5	5	6	7	7	8
85.0	2	3	3	3	3	3	4	4	4	4
87.5	1	1	1	1	1	1	2	1	2	2
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>170.0</b>	0	0	0	0	0	0	0	0	0	0
<b>172.5</b>	0	0	0	0	0	0	0	0	0	0
<b>175.0</b>	0	0	0	0	0	0	0	0	0	0
<b>177.5</b>	0	0	0	0	0	0	0	0	0	0
<b>180.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>						
	<b>150</b>	<b>155</b>	<b>160</b>	<b>165</b>	<b>170</b>	<b>175</b>	<b>180</b>
<b>0.0</b>	205	205	205	205	205	205	205
<b>2.5</b>	207	207	206	206	206	206	206
<b>5.0</b>	210	209	209	209	208	208	208
<b>7.5</b>	212	212	211	211	211	210	210
<b>10.0</b>	216	215	215	214	213	213	213
<b>12.5</b>	219	219	218	218	218	217	217
<b>15.0</b>	224	223	223	223	222	222	222
<b>17.5</b>	229	229	229	229	228	228	228
<b>20.0</b>	236	236	237	238	238	238	239
<b>22.5</b>	245	246	247	247	248	248	249
<b>25.0</b>	255	255	256	257	257	258	259
<b>27.5</b>	266	267	269	271	272	274	275
<b>30.0</b>	279	280	283	286	287	288	289
<b>32.5</b>	295	295	296	299	300	302	303
<b>35.0</b>	311	311	312	316	318	320	322
<b>37.5</b>	328	328	329	332	336	338	339
<b>40.0</b>	348	347	349	352	357	360	360
<b>42.5</b>	372	371	373	375	380	383	383
<b>45.0</b>	400	400	402	402	408	414	415
<b>47.5</b>	429	430	430	431	436	443	444
<b>50.0</b>	464	467	471	475	482	492	495
<b>52.5</b>	512	514	520	524	532	546	551
<b>55.0</b>	566	568	580	587	596	619	626
<b>57.5</b>	623	629	625	609	600	601	594
<b>60.0</b>	612	564	492	427	386	343	311
<b>62.5</b>	410	300	156	83	53	40	35
<b>65.0</b>	85	46	35	28	24	22	21
<b>67.5</b>	34	29	24	20	19	18	18
<b>70.0</b>	25	23	19	18	17	17	17
<b>72.5</b>	21	19	18	17	17	17	17
<b>75.0</b>	18	15	16	17	16	15	14
<b>77.5</b>	15	13	12	13	15	14	14
<b>80.0</b>	11	10	11	11	11	11	11
<b>82.5</b>	8	8	8	8	9	9	9
<b>85.0</b>	4	5	7	7	8	8	8
<b>87.5</b>	2	3	3	4	6	6	6
<b>90.0</b>	0	0	0	0	0	0	0
<b>92.5</b>	0	0	0	0	0	0	0
<b>95.0</b>	0	0	0	0	0	0	0
<b>97.5</b>	0	0	0	0	0	0	0
<b>100.0</b>	0	0	0	0	0	0	0
<b>102.5</b>	0	0	0	0	0	0	0
<b>105.0</b>	0	0	0	0	0	0	0
<b>107.5</b>	0	0	0	0	0	0	0
<b>110.0</b>	0	0	0	0	0	0	0
<b>112.5</b>	0	0	0	0	0	0	0
<b>115.0</b>	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	84.45	N.A.	6.00
0-30	205.18	N.A.	14.60
0-40	404.84	N.A.	28.70
0-60	1216.54	N.A.	86.30
0-80	1404.66	N.A.	99.70
0-90	1409.51	N.A.	100.00
10-90	1389.32	N.A.	98.60
20-40	320.40	N.A.	22.70
20-50	635.95	N.A.	45.10
40-70	982.69	N.A.	69.70
60-80	188.12	N.A.	13.30
70-80	17.12	N.A.	1.20
80-90	4.86	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1409.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	20.20
10-20	64.25
20-30	120.74
30-40	199.66
40-50	315.55
50-60	496.15
60-70	171.00
70-80	17.12
80-90	4.86
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



**IES INDOOR REPORT**  
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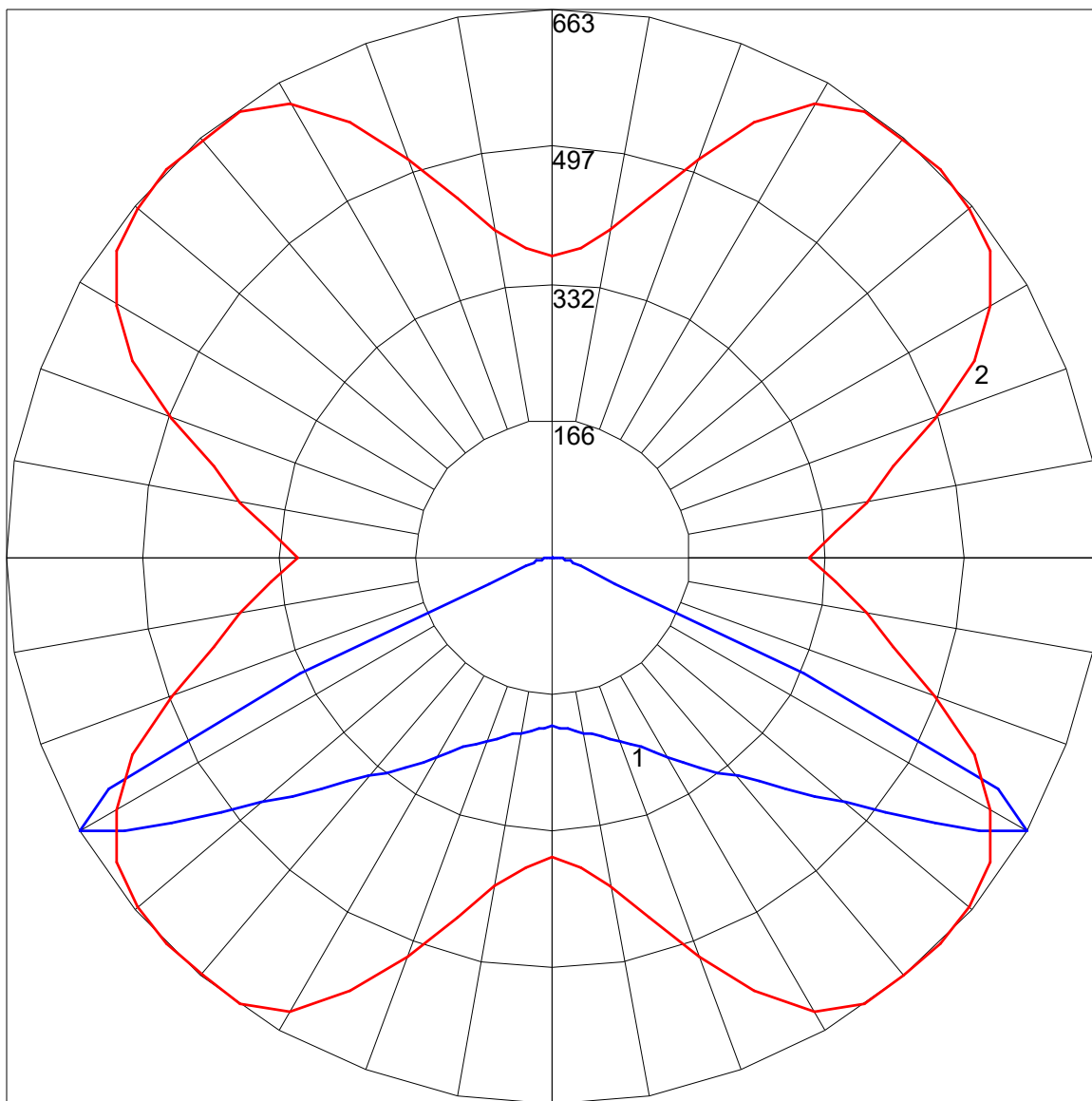
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	59	53	48	46
5	72	59	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	66	51	42	35	64	50	41	35	48	40	34	47	39	34	45	39	33	31
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	55	41	31	25	54	40	31	25	38	30	25	37	30	24	36	29	24	22
9	51	37	28	22	50	36	27	22	35	27	21	34	26	21	32	26	21	19
10	47	33	25	19	46	33	24	19	32	24	19	31	24	19	30	23	18	17

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POLAR GRAPH



Maximum Candela = 663 Located At Horizontal Angle = 45, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)