



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PLURALUCE RM COMBO - WALL MOUNT FORWARD.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA: LM-63-2019
 [TESTDATE] 17 December 2024
 [TESTLAB] Spectra Lux
 [TEST] S2412172-R1
 [MANUFAC] BeLucé Canada Inc.
 [LUMCAT] PLURALUCE RM COMBO - WALL MOUNT FORWARD
 [LUMINAIRE] STELLALUCE/QUADRALUCE/FORMALUCE
 [LAMP] Clusters of Seoul Semiconductors 3535 Dome LEDs Operating @ 1.35A
 [BURNING] Vertical Base Up (747 Luminaire Lumens)
 [OPTICS] PMMA - 200000358
 [LENS] None
 [HOUSING] White Painted Fabricated Metal Sheet
 [NOMINAL COLOR] 4000 K
 [DRIVE CURRENT] 675 mA / LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	8.83
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.96
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	1.04
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	795207	63266	94413
55	1459102	64796	87594
65	1766952	66770	74912
75	87753	69139	71798
85	94761	205315	205315

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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>
0.0	281	281	281	281	281	281	281	281	281	281
2.5	355	355	361	361	355	354	352	349	351	343
5.0	407	408	414	412	404	398	392	385	379	369
7.5	457	456	455	446	433	421	408	396	387	378
10.0	499	493	481	463	443	425	411	400	389	380
12.5	519	507	485	460	438	419	403	393	383	374
15.0	522	502	471	442	418	400	387	374	357	346
17.5	520	492	453	419	397	378	361	341	317	302
20.0	520	484	437	401	377	356	331	304	274	258
22.5	526	481	427	390	362	333	301	266	231	217
25.0	540	485	424	383	353	314	270	224	193	177
27.5	560	495	427	386	346	297	234	192	159	141
30.0	584	510	436	390	342	276	208	166	134	119
32.5	612	529	447	397	338	250	186	145	117	105
35.0	640	551	458	403	327	225	167	129	107	94
37.5	673	577	471	408	305	204	149	117	96	83
40.0	713	607	487	412	275	184	133	104	85	73
42.5	760	641	512	408	249	165	118	93	76	68
45.0	817	679	546	389	231	149	105	85	69	65
47.5	892	725	580	366	214	135	96	77	63	62
50.0	985	786	618	351	200	124	91	69	60	59
52.5	1091	852	650	338	193	117	85	63	58	57
55.0	1216	937	669	337	192	116	77	60	55	54
57.5	1374	1029	685	347	192	113	73	58	52	51
60.0	1621	1130	713	351	185	102	65	57	49	48
62.5	1679	1147	676	319	149	77	56	52	47	44
65.0	1085	766	443	158	86	60	49	46	43	41
67.5	239	191	145	91	66	50	43	41	39	37
70.0	138	102	83	74	56	45	39	36	35	33
72.5	72	60	55	61	50	41	36	33	31	29
75.0	33	33	39	54	44	40	34	30	27	26
77.5	20	23	35	47	51	43	36	29	25	30
80.0	17	18	36	48	56	52	42	31	24	69
82.5	28	19	34	49	56	57	49	34	25	62
85.0	12	10	30	47	56	58	43	35	25	26
87.5	6	5	22	32	37	36	20	17	14	12
90.0	7	4	4	3	3	3	2	3	4	4
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

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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	281	281	281	281	281	281	281	281	281	281
2.5	342	337	331	325	320	314	309	303	297	291
5.0	362	355	348	341	334	326	319	311	303	294
7.5	371	363	355	348	340	333	325	316	307	296
10.0	373	366	358	350	342	334	326	317	309	299
12.5	361	351	341	332	325	318	311	305	298	291
15.0	329	317	308	302	299	297	295	292	288	283
17.5	285	278	276	274	274	273	273	273	273	273
20.0	243	236	231	227	225	226	231	236	241	245
22.5	201	189	181	178	178	180	186	195	204	214
25.0	158	149	147	147	150	153	159	166	175	187
27.5	128	124	124	127	130	135	140	146	153	162
30.0	109	106	107	110	115	120	125	130	136	143
32.5	95	91	92	95	101	106	112	117	124	130
35.0	82	78	80	84	90	97	104	110	117	124
37.5	73	71	73	77	83	91	98	105	112	119
40.0	68	67	68	72	78	85	92	100	107	115
42.5	65	64	64	67	73	79	87	94	102	109
45.0	62	61	62	64	68	74	81	89	97	105
47.5	60	60	60	61	64	69	76	83	91	100
50.0	58	58	57	58	60	65	71	78	86	94
52.5	56	55	55	55	57	60	65	72	80	88
55.0	53	53	52	52	53	55	59	66	73	81
57.5	50	49	49	49	49	50	53	59	66	73
60.0	46	46	46	45	45	45	47	52	59	66
62.5	43	42	42	42	41	41	42	46	51	59
65.0	39	39	38	38	38	37	37	40	46	53
67.5	35	35	35	35	35	34	33	36	41	49
70.0	31	32	33	32	32	31	31	32	37	44
72.5	28	29	29	29	29	29	28	28	32	38
75.0	26	28	27	27	26	25	25	25	27	31
77.5	36	32	31	29	29	27	26	25	25	27
80.0	63	38	33	30	30	33	34	32	27	25

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CANDELA TABULATION - (Cont.)

82.5	70	36	27	25	28	34	38	34	30	23
85.0	60	30	20	21	22	27	37	35	26	22
87.5	50	24	17	16	17	22	27	24	16	14
90.0	40	19	11	9	7	5	2	1	1	1
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	281	281	281	281	281	281	281	281	281	281
2.5	285	279	272	266	261	255	249	243	239	234
5.0	285	276	268	259	252	244	236	229	222	215
7.5	285	274	263	254	245	237	228	220	214	207
10.0	289	277	265	253	242	232	222	213	206	200
12.5	282	273	263	251	241	230	219	209	201	194
15.0	276	268	258	247	237	228	218	208	197	189
17.5	272	268	260	249	236	226	217	207	196	186
20.0	249	253	253	248	238	225	214	205	196	185
22.5	221	229	235	237	235	225	211	201	194	185
25.0	198	208	216	222	226	222	210	197	189	182
27.5	174	187	196	205	213	216	210	197	185	178

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CANDELA TABULATION - (Cont.)

30.0	152	164	175	185	195	203	204	196	183	173
32.5	137	147	157	167	177	184	190	189	181	170
35.0	131	137	145	155	164	171	175	177	173	166
37.5	125	131	138	146	155	161	165	166	164	159
40.0	121	127	133	140	147	152	155	156	155	151
42.5	116	122	128	135	141	145	147	148	147	144
45.0	112	118	124	129	135	138	140	140	140	137
47.5	107	113	119	125	129	132	134	134	133	130
50.0	101	108	114	120	124	126	127	127	127	125
52.5	95	102	109	114	118	121	122	122	121	119
55.0	88	96	102	108	113	115	117	117	116	113
57.5	81	89	96	103	108	111	113	112	111	108
60.0	74	83	91	97	103	107	108	107	105	101
62.5	67	76	84	91	98	101	102	101	98	94
65.0	62	71	78	85	91	94	94	92	89	84
67.5	57	65	72	78	82	85	84	82	78	73
70.0	51	58	64	68	72	73	73	70	67	62
72.5	43	48	52	56	61	62	61	58	55	51
75.0	36	40	43	45	49	51	50	47	45	41
77.5	31	35	36	37	39	38	38	37	36	33
80.0	27	29	30	30	30	30	30	29	29	27
82.5	22	23	23	23	22	22	22	23	22	20
85.0	21	20	20	19	17	15	15	16	16	14
87.5	14	13	12	10	10	9	8	9	9	9
90.0	1	2	3	3	4	4	4	5	5	5
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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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						
	150	155	160	165	170	175	180
0.0	281	281	281	281	281	281	281
2.5	229	224	222	218	215	216	213
5.0	209	201	196	190	185	183	180
7.5	199	192	185	178	171	167	163
10.0	193	187	180	172	166	161	157
12.5	188	182	175	168	162	158	155
15.0	182	176	171	165	160	156	154
17.5	178	173	168	163	158	155	153
20.0	177	170	165	161	157	154	152
22.5	175	168	163	159	155	153	151
25.0	174	166	161	157	153	151	150
27.5	170	163	158	154	152	150	149
30.0	166	160	155	152	151	150	149
32.5	162	156	152	150	149	149	148
35.0	159	153	149	147	146	146	145
37.5	153	149	146	145	145	145	144
40.0	147	143	142	143	144	146	145
42.5	141	138	137	139	142	145	144
45.0	134	132	132	134	137	141	142
47.5	128	126	126	128	133	139	141
50.0	122	120	121	123	128	132	134
52.5	116	114	116	118	121	125	126
55.0	110	109	109	110	112	116	116
57.5	104	102	102	101	102	104	104
60.0	97	94	93	91	91	94	93
62.5	89	85	83	81	80	83	83
65.0	79	75	73	70	70	72	73
67.5	68	65	62	59	59	61	62
70.0	58	54	52	49	48	45	44
72.5	47	44	42	40	37	36	35
75.0	39	36	33	32	30	29	29
77.5	32	29	27	26	24	24	24
80.0	25	22	20	20	19	18	18
82.5	18	16	15	14	14	14	13
85.0	13	11	11	10	10	10	9
87.5	7	7	6	6	5	5	4
90.0	4	4	3	3	3	2	2
92.5	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0
115.0	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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Zone	Lumens	%Lamp	%Fixt
0-20	109.07	N.A.	14.50
0-30	209.58	N.A.	27.90
0-40	320.19	N.A.	42.70
0-60	580.71	N.A.	77.40
0-80	725.99	N.A.	96.70
0-90	750.03	N.A.	99.90
10-90	721.23	N.A.	96.10
20-40	211.12	N.A.	28.10
20-50	333.75	N.A.	44.50
40-70	365.58	N.A.	48.70
60-80	145.28	N.A.	19.40
70-80	40.22	N.A.	5.40
80-90	24.04	N.A.	3.20
90-110	0.71	N.A.	0.10
90-120	0.71	N.A.	0.10
90-130	0.71	N.A.	0.10
90-150	0.71	N.A.	0.10
90-180	0.71	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	750.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	28.80
10-20	80.27
20-30	100.51
30-40	110.61
40-50	122.63
50-60	137.89
60-70	105.06
70-80	40.22
80-90	24.04
90-100	0.71
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

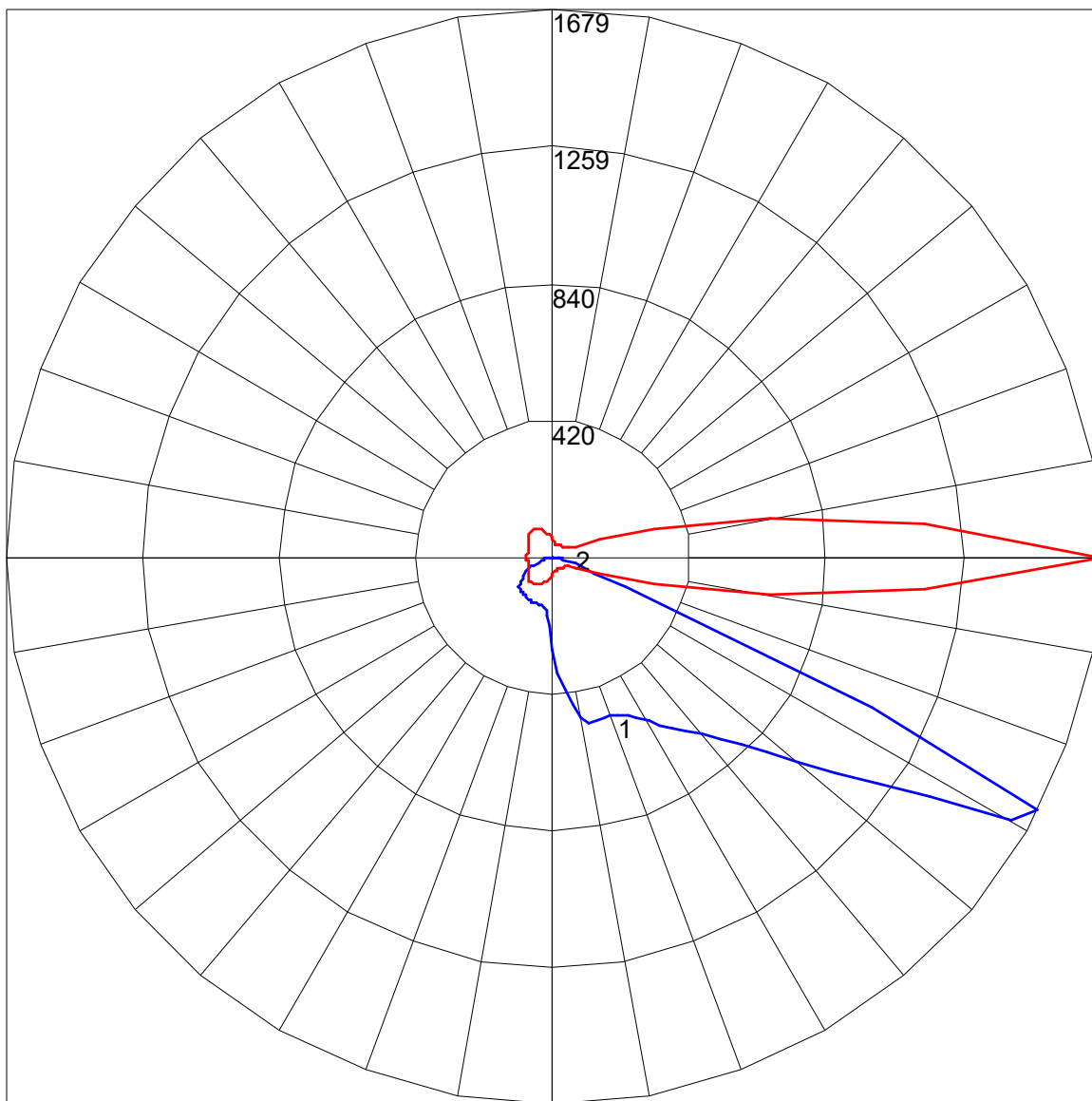
PHOTOMETRIC FILENAME : PLURALUCE RM COMBO - WALL MOUNT FORWARD.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1679 Located At Horizontal Angle = 0, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)