

IES INDOOR REPORT

PHOTOMETRIC FILENAME : COMBO SL-FL-QL-WALL OVAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTDATE] 17 December 2024

[TESTLAB] Spectra Lux

[ISSUEDATE]

[TEST] S2412173-R1

[MANUFAC] BEGHELLI

[LUMCAT] SL-RM-PL (Wall Large Oval)

[LUMINAIRE] COMBO: SL, FL, QL - WALL MOUNT OVAL

[LAMP] Clusters of Seoul Semiconductors 3535 Dome LEDs Operating @ 1.35A

[BURNING] Vertical Base Up (821 Luminaire Lumens)

[OPTICS] PMMA - 200000356

[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	824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	8.83
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.12
Spacing Criterion (90-270)	2.44
Spacing Criterion (Diagonal)	1.84
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	323144	340664	262798
55	53996	340777	495567
65	53741	79798	1398905
75	53184	93071	101049
85	86864	426423	181625

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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	166	166	166	166	166	166	166	166	166	166
2.5	187	187	187	188	187	185	184	182	181	180
5.0	201	201	201	201	200	198	197	195	192	190
7.5	212	212	211	212	211	209	207	205	203	200
10.0	224	224	223	224	222	219	217	214	211	209
12.5	239	239	238	238	235	232	229	225	221	217
15.0	248	248	248	248	247	245	241	237	233	228
17.5	249	250	249	249	249	249	249	248	246	241
20.0	257	255	254	253	251	250	250	253	255	254
22.5	269	267	265	263	259	255	254	256	259	262
25.0	284	283	279	275	269	264	262	261	263	270
27.5	307	304	298	293	285	278	271	269	270	276
30.0	326	322	316	310	301	295	287	282	280	282
32.5	351	347	338	329	315	307	303	300	294	291
35.0	364	361	354	343	333	325	316	314	309	306
37.5	396	392	382	362	341	328	328	326	322	322
40.0	398	395	385	362	352	348	337	327	335	337
42.5	380	377	366	342	336	336	340	341	337	347
45.0	332	331	320	299	302	311	319	334	349	350
47.5	219	221	225	224	254	271	286	312	337	364
50.0	138	142	149	150	165	192	239	273	312	354
52.5	64	68	77	83	103	131	164	213	277	322
55.0	45	46	47	48	57	76	104	147	204	284
57.5	40	40	40	40	42	49	62	91	136	203
60.0	37	37	38	37	38	40	43	57	85	135
62.5	35	35	35	35	36	36	37	40	52	80
65.0	33	33	33	33	33	34	34	36	39	49
67.5	31	31	31	31	31	31	32	33	35	38
70.0	27	28	28	28	28	29	29	31	33	37
72.5	23	24	24	24	25	25	26	28	31	37
75.0	20	20	21	21	22	22	24	25	28	35
77.5	17	17	17	18	19	20	21	23	26	36
80.0	14	14	14	14	15	17	18	20	24	49
82.5	12	12	12	12	13	14	15	17	23	63
85.0	11	10	10	10	10	12	12	14	21	54
87.5	10	9	8	8	8	9	9	11	19	31
90.0	7	7	7	6	6	6	6	7	14	9
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	166	166	166	166	166	166	166	166	166	166
2.5	179	177	176	174	172	171	169	167	165	164
5.0	188	186	183	181	178	175	172	169	166	162
7.5	198	194	191	187	183	180	175	171	166	162
10.0	206	203	199	195	190	184	179	173	167	162
12.5	214	210	207	202	196	190	183	176	169	161
15.0	223	218	214	209	204	196	188	180	171	161
17.5	235	228	223	218	212	205	195	185	174	162
20.0	249	242	235	228	222	214	203	191	178	164
22.5	263	257	249	240	232	224	212	198	183	167
25.0	274	272	265	255	244	234	222	206	188	170
27.5	283	284	281	271	257	246	233	216	194	173
30.0	290	295	295	287	273	258	244	225	200	176
32.5	296	305	307	301	289	270	255	236	208	179
35.0	306	313	319	317	305	286	268	249	216	183
37.5	321	323	332	333	323	303	281	263	226	185
40.0	337	339	344	349	344	324	296	278	238	188
42.5	354	358	363	366	361	344	315	298	253	194
45.0	366	379	387	384	386	372	340	320	270	203
47.5	374	399	413	415	409	398	364	344	288	212
50.0	392	410	444	449	439	435	398	375	315	228
52.5	383	435	467	497	488	482	445	418	354	254
55.0	350	431	503	542	555	547	509	477	413	291
57.5	300	398	512	607	635	634	603	575	512	358
60.0	214	340	486	665	760	774	755	754	686	457
62.5	137	241	416	668	930	1035	1048	1021	880	517
65.0	74	137	262	509	876	1125	1206	1065	859	442
67.5	43	67	121	262	537	836	1033	842	633	310
70.0	34	38	54	95	181	286	384	288	216	130
72.5	31	32	35	43	54	83	109	84	68	48
75.0	29	28	29	33	37	47	48	42	38	35
77.5	26	26	26	28	31	32	30	30	30	30
80.0	23	23	24	25	27	26	27	27	27	27

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CANDELA TABULATION - (Cont.)

82.5	20	20	21	23	24	24	24	24	24	25
85.0	17	17	17	19	20	21	21	22	23	21
87.5	12	12	13	13	14	14	15	15	15	13
90.0	6	6	5	4	3	2	2	1	1	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	166	166	166	166	166	166	166	166	166	166
2.5	162	160	158	157	155	153	153	150	150	149
5.0	159	156	153	150	147	144	142	139	138	136
7.5	157	152	147	143	139	135	133	129	127	124
10.0	155	149	143	137	132	127	123	119	115	112
12.5	153	146	139	132	126	119	114	108	104	100
15.0	152	143	134	126	119	110	104	98	93	89
17.5	151	140	129	119	110	101	94	88	83	78
20.0	151	138	125	113	101	91	85	78	73	69
22.5	151	136	120	105	93	82	75	68	64	60
25.0	151	132	114	97	84	73	66	60	57	55
27.5	151	127	106	88	74	65	59	55	54	53

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CANDELA TABULATION - (Cont.)

30.0	149	122	98	78	66	58	54	52	51	52
32.5	147	115	89	69	60	54	51	50	50	51
35.0	144	108	80	63	55	51	49	48	48	49
37.5	140	101	74	58	52	48	47	46	46	47
40.0	138	99	70	55	49	46	45	44	45	46
42.5	139	98	68	52	46	44	43	43	44	45
45.0	142	97	64	50	45	42	42	42	43	45
47.5	146	96	61	48	43	41	41	42	43	43
50.0	152	97	61	47	42	41	40	41	42	44
52.5	162	100	62	46	42	40	40	41	42	43
55.0	182	103	61	45	40	39	40	39	40	41
57.5	219	117	62	43	39	38	38	37	38	39
60.0	246	113	59	40	36	36	36	35	36	38
62.5	228	90	48	37	35	34	34	34	35	36
65.0	168	60	36	35	34	34	33	31	32	34
67.5	97	41	33	34	34	34	32	29	30	32
70.0	52	34	31	35	35	34	32	28	28	30
72.5	38	30	30	35	36	34	32	26	26	27
75.0	32	28	28	32	34	31	29	24	24	24
77.5	28	26	27	29	30	28	25	21	21	21
80.0	26	23	25	26	27	24	21	18	17	17
82.5	23	22	23	23	22	19	17	14	13	13
85.0	20	18	19	17	17	13	12	10	9	8
87.5	12	11	12	10	10	7	6	4	4	4
90.0	1	1	2	3	3	3	3	2	2	2
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.)

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. 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	166	166	166	166	166	166	166
2.5	148	147	147	147	147	146	146
5.0	134	133	133	132	132	131	131
7.5	122	120	119	118	118	117	116
10.0	109	106	105	104	103	102	101
12.5	96	94	92	91	90	89	89
15.0	86	83	81	79	78	77	77
17.5	75	72	70	68	67	66	66
20.0	65	62	61	59	58	57	57
22.5	58	56	55	54	54	53	52
25.0	54	54	53	52	52	51	50
27.5	53	53	52	51	50	49	49
30.0	53	53	51	50	49	49	48
32.5	51	50	50	49	49	49	48
35.0	49	49	49	49	49	49	49
37.5	47	48	49	49	49	50	49
40.0	47	48	49	49	50	50	50
42.5	46	48	49	50	51	52	51
45.0	46	48	51	51	52	53	53
47.5	45	48	49	52	53	54	54
50.0	45	47	50	52	54	55	55
52.5	45	47	49	51	53	55	55
55.0	43	45	48	50	53	54	55
57.5	41	44	47	50	52	53	54
60.0	40	44	46	49	51	52	53
62.5	38	44	45	47	49	51	51
65.0	37	41	43	45	46	47	47
67.5	35	37	39	41	42	43	43
70.0	32	34	36	37	38	38	38
72.5	28	30	31	32	32	32	32
75.0	25	26	27	26	25	25	25
77.5	22	22	21	18	17	17	16
80.0	18	18	15	15	14	13	13
82.5	14	14	12	11	11	10	10
85.0	9	9	8	7	7	6	6
87.5	4	5	5	4	4	4	3
90.0	2	3	3	3	3	3	3
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	62.55	N.A.	7.60
0-30	142.01	N.A.	17.20
0-40	263.23	N.A.	32.00
0-60	589.58	N.A.	71.60
0-80	807.67	N.A.	98.10
0-90	823.16	N.A.	99.90
10-90	807.39	N.A.	98.00
20-40	200.68	N.A.	24.40
20-50	357.34	N.A.	43.40
40-70	508.25	N.A.	61.70
60-80	218.09	N.A.	26.50
70-80	36.18	N.A.	4.40
80-90	15.49	N.A.	1.90
90-110	0.54	N.A.	0.10
90-120	0.54	N.A.	0.10
90-130	0.54	N.A.	0.10
90-150	0.54	N.A.	0.10
90-180	0.54	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	823.70	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.77
10-20	46.78
20-30	79.46
30-40	121.22
40-50	156.66
50-60	169.69
60-70	181.90
70-80	36.18
80-90	15.49
90-100	0.54
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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	87	75	67	59	84	74	66	59	71	64	58	68	62	57	65	60	56	53
4	79	65	56	48	76	64	55	48	61	54	47	59	52	47	57	51	46	44
5	71	57	47	40	69	56	47	40	54	46	39	52	45	39	50	44	38	36
6	65	51	41	34	63	50	40	34	48	40	33	46	39	33	44	38	33	31
7	60	45	36	29	58	44	35	29	43	35	29	41	34	28	40	33	28	26
8	55	41	32	25	54	40	31	25	39	31	25	37	30	25	36	30	25	23
9	52	37	28	22	50	36	28	22	35	28	22	34	27	22	33	27	22	20
10	48	34	25	20	47	33	25	20	32	25	20	31	24	20	30	24	19	18

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UGR TABLE - CORRECTED

Reflectances

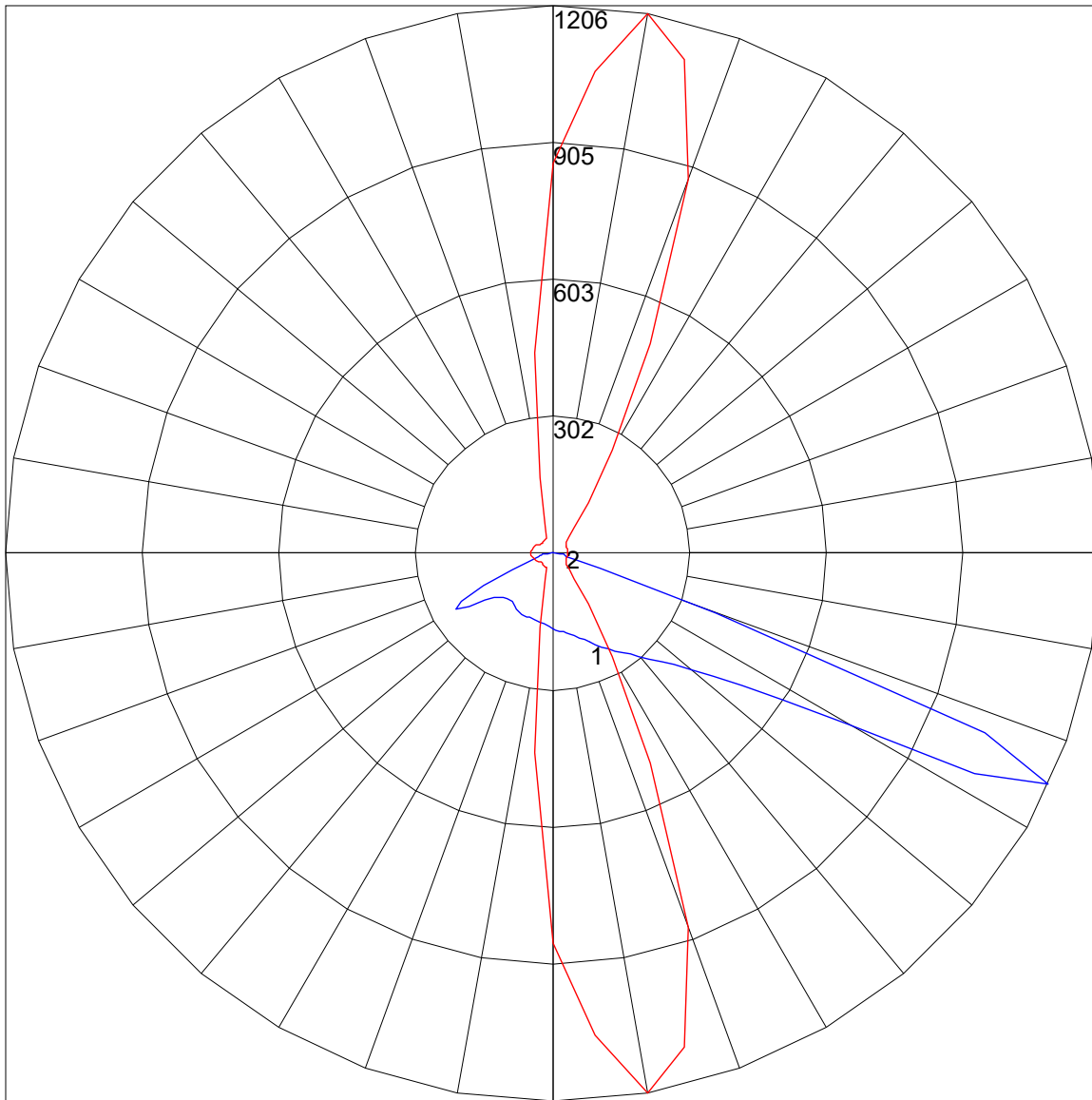
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.6	23.4	21.9	23.7	24.0	38.3	40.1	38.7	40.5	40.8
	3H	23.9	25.5	24.2	25.8	26.2	42.4	44.0	42.8	44.4	44.7
	4H	24.8	26.3	25.2	26.7	27.0	42.4	43.9	42.8	44.3	44.7
	6H	25.5	26.9	25.9	27.3	27.7	42.4	43.8	42.8	44.2	44.5
	8H	25.9	27.2	26.3	27.6	28.0	42.3	43.7	42.8	44.1	44.5
	12H	26.3	27.6	26.7	28.0	28.4	42.3	43.7	42.8	44.0	44.5
4H	2H	23.4	24.9	23.8	25.2	25.6	38.2	39.7	38.6	40.1	40.5
	3H	25.5	26.8	25.9	27.2	27.6	42.3	43.6	42.7	44.0	44.4
	4H	26.4	27.6	26.8	28.0	28.4	42.3	43.4	42.7	43.9	44.3
	6H	27.2	28.3	27.7	28.7	29.2	42.3	43.3	42.7	43.7	44.2
	8H	27.6	28.6	28.1	29.0	29.5	42.3	43.2	42.7	43.7	44.1
	12H	28.1	28.9	28.6	29.4	29.9	42.3	43.1	42.8	43.6	44.1
8H	4H	27.5	28.5	28.0	28.9	29.4	42.2	43.2	42.7	43.6	44.1
	6H	28.5	29.3	29.0	29.8	30.3	42.2	43.0	42.7	43.5	44.0
	8H	29.0	29.7	29.5	30.2	30.7	42.2	42.9	42.7	43.4	43.9
	12H	29.5	30.1	30.0	30.6	31.2	42.3	42.9	42.8	43.4	43.9
12H	4H	27.7	28.6	28.2	29.0	29.5	42.2	43.1	42.7	43.5	44.0
	6H	29.4	30.1	29.9	30.6	31.1	42.2	42.9	42.7	43.4	43.9
	8H	30.0	30.6	30.5	31.0	31.6	42.3	42.9	42.8	43.3	43.9

Maximum UGR = 44.7

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POLAR GRAPH



Maximum Candela = 1206 Located At Horizontal Angle = 80, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)