

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BL85QLWH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] LTL06841
[TESTLAB] LTL
[ISSUE DATE] 10/10/2003
[TEST DATE] 07-30-2002
[MANUFAC] ENERGY PLUS LIGHTING
[LUMCAT] BL-85QL-WH
[LUMINAIRE] BAYLIGHTER FIXTURE, FABRICATED ALUMINUM HOUSING
[MORE] WITH CONTINUOUSLY WELDED CORNERS,
[MORE] FORMED HIGH PURITY SPECULAR ANODIZED
[MORE] ALUMINUM REFLECTOR, CLEAR POLYCARBONATE PRISMATIC LENS.
[LAMP CAT] QL85W/840
[LAMP] ONE PHILIPS QL85W/840 RATED AT 6000 LUMENS.
[BALLAST] ONE PHILIPS QL85W/S13
[LAMP POSITION] VERTICAL

CHARACTERISTICS

Total Rated Lamp Lumens	6000
Total Luminaire Efficiency	64.1 %
CIE Type	Direct
Spacing Criteria (0-180)	1.12
Spacing Criteria (90-270)	1.12
Spacing Criteria (Diagonal)	1.26
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.96 ft
Luminous Width (90-270)	0.96 ft
Luminous Height	0.19 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9850	10650	9712
55	8787	10203	8723
65	7424	8782	7249
75	6042	7100	5886
85	5089	5452	5048

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
5	1464	1467	1466	1466	1464	1464	1465	1466	1466	1467
15	1375	1373	1354	1322	1294	1285	1303	1333	1361	1377
25	1252	1252	1232	1204	1181	1172	1175	1193	1220	1244
35	932	933	927	955	987	995	986	938	912	924
45	715	718	750	791	817	826	820	792	737	705
55	554	563	596	644	692	702	687	635	590	552
60	469	472	507	560	597	606	593	549	497	465
62.5	425	427	460	513	549	558	544	500	449	420
65	383	384	414	464	500	509	493	451	402	375
67.5	340	340	370	415	450	462	442	405	361	336
70	304	304	332	373	404	415	398	361	322	300
72.5	268	270	294	330	360	369	353	322	286	265
75	233	234	257	293	316	322	309	282	251	230
77.5	198	200	223	253	275	278	270	247	217	196
80	171	172	195	218	232	236	232	211	188	171
82.5	146	148	168	188	200	201	198	185	164	149
85	124	127	143	160	171	171	171	158	142	127
87.5	105	107	120	137	144	146	143	134	120	105
90	86	89	101	111	118	119	118	111	100	88
95	62	59	66	66	68	66	68	67	65	60
105	23	21	21	24	28	30	25	25	20	18
115	15	17	16	12	9	9	9	9	11	12
125	4	2	1	2	2	2	2	1	2	2
135	1	1	0	1	0	1	1	1	1	0
145	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>	<u>175</u>
0	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
5	1467	1467	1465	1463	1461	1460	1460	1464	1466	1467
15	1379	1377	1355	1320	1290	1283	1297	1328	1354	1371
25	1246	1245	1225	1202	1187	1185	1178	1183	1199	1214
35	927	929	930	962	984	990	984	949	910	905
45	705	709	750	798	821	830	825	803	745	700
55	550	556	593	641	684	691	683	640	595	555
60	462	466	501	553	590	599	589	550	501	464
62.5	419	421	452	504	541	552	538	501	451	417
65	374	377	406	455	492	505	488	451	403	377
67.5	336	337	364	407	443	456	439	404	361	335
70	300	300	324	365	399	410	395	360	323	298
72.5	262	265	291	323	352	362	349	320	285	262
75	227	229	255	287	309	317	307	281	250	227
77.5	195	196	218	248	268	274	266	244	214	195
80	168	172	191	216	229	233	227	213	190	169
82.5	143	149	166	187	194	195	195	184	165	146
85	123	127	143	160	168	171	166	159	140	125
87.5	103	108	122	135	143	141	143	135	121	107
90	86	89	102	111	117	117	116	110	100	88

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CANDELA TABULATION - (Cont.)

95	59	60	66	66	66	66	67	66	61	60
105	18	18	20	22	24	25	24	21	18	18
115	14	12	11	9	9	2	7	9	9	12
125	1	0	1	1	2	2	2	2	2	2
135	0	0	0	0	0	1	0	1	0	0
145	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

Vert. Angles	Horizontal Angles
	180
0	1504
5	1471
15	1373
25	1221
35	913
45	695
55	545
60	458
62.5	414
65	372
67.5	330
70	296
72.5	257
75	223
77.5	189
80	161
82.5	139
85	118
87.5	99
90	84
95	56
105	18
115	11
125	1
135	0
145	0
155	0
165	0
175	0
180	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	776.69	12.9	20.2
0-40	1366.82	22.8	35.5
0-60	2830.66	47.2	73.6
0-90	3727.84	62.1	97
90-120	110.27	1.8	2.9
90-130	115.92	1.9	3
90-150	116.97	1.9	3
90-180	116.97	1.9	3
0-180	3844.81	64.1	100

Total Luminaire Efficiency = 64.1%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.49
10-20	265.96
20-30	475.24
30-40	590.14
40-50	606.93
50-60	856.9
60-70	438.39
70-80	292.17
80-90	166.63
90-100	46.61
100-110	46.88
110-120	16.77
120-130	5.65
130-140	.89
140-150	.16
150-160	0
160-170	0
170-180	0

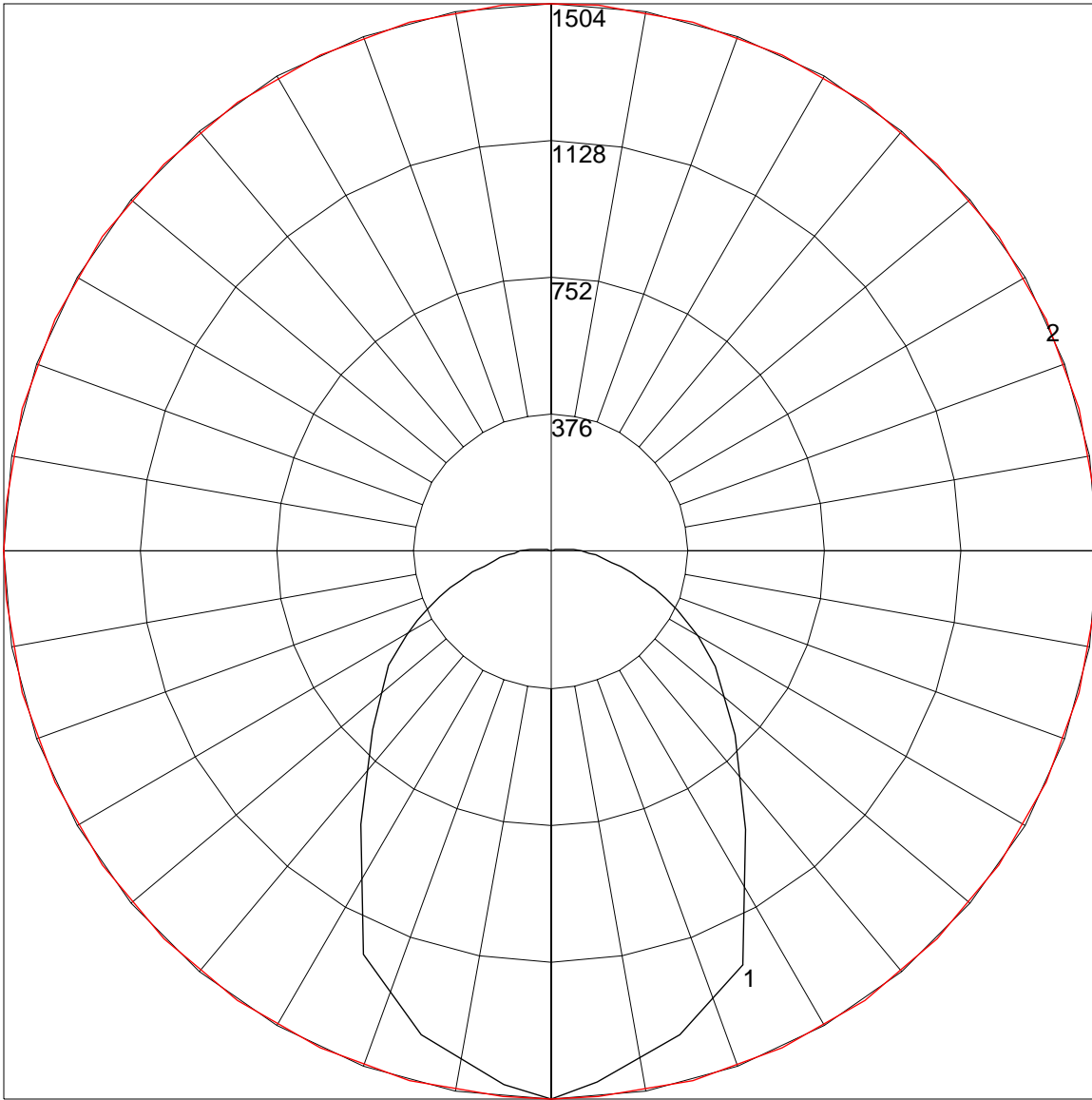
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	76	76	76	74	74	74	74	70	70	70	67	67	67	64	64	64	62
1	68	65	62	59	66	63	60	58	60	58	56	57	55	53	54	53	52	50
2	62	56	51	47	60	54	50	46	52	48	45	49	46	43	47	44	42	41
3	56	48	43	38	54	47	42	38	45	40	37	43	39	36	41	38	35	33
4	51	42	36	32	49	41	36	31	39	34	31	38	33	30	36	32	29	28
5	46	37	31	27	45	36	31	26	35	30	26	33	29	25	32	28	25	23
6	42	33	27	23	41	32	27	23	31	26	22	30	25	22	29	25	21	20
7	39	30	24	20	38	29	23	19	28	23	19	27	22	19	26	22	19	17
8	36	27	21	17	35	26	21	17	25	20	17	24	20	17	23	19	16	15
9	34	24	19	15	32	24	19	15	23	18	15	22	18	15	21	17	14	13
10	31	22	17	14	30	22	17	13	21	16	13	20	16	13	20	16	13	12

POLAR GRAPH



Maximum Candela = 1504 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)