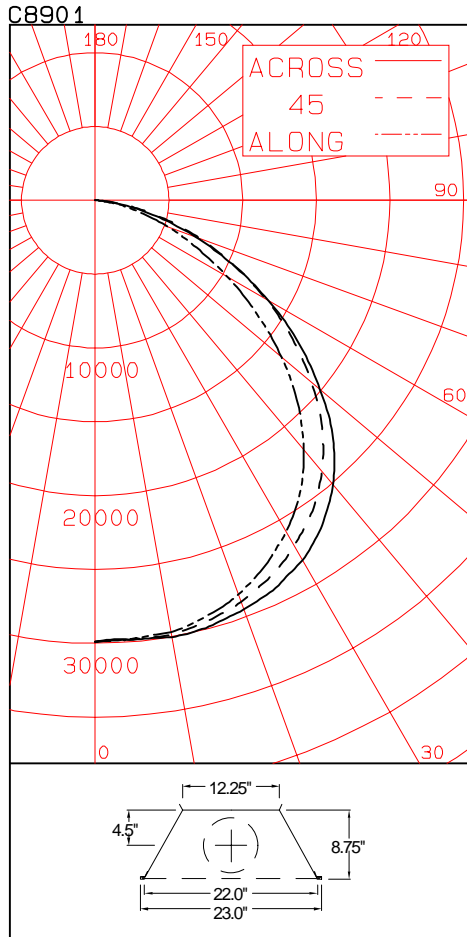


CERTIFIED TEST REPORT NO. LSC8901  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BELL LIGHTING HID LUMINAIRE CAT. NO. LF1000 SM-DR-MH  
 WITH WHITE PAINTED REFLECTOR AND PINHEAD OBSCURE GLASS LENS  
 ONE 1000W CLEAR METAL HALIDE LAMP. LUMEN RATING = 110000 LMS.



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	29881	29881	29881	29881	29881	
5	29800	29905	29845	29920	29860	2894
10	29691	29696	29885	29975	30024	
15	29153	29298	29497	29666	29880	8324
20	28402	28700	28949	29347	29482	
25	27307	27620	28133	28665	28969	12951
30	25933	26276	27013	27740	28158	
35	24230	24683	25679	26470	26844	15952
40	22030	22613	23942	24753	25116	
45	19467	20209	21762	22454	22822	16429
50	16530	17501	19153	19721	19895	
55	13389	14629	16356	16809	16829	14035
60	10413	11762	13365	13743	13559	
65	7606	8945	10388	10572	10269	9643
70	5266	6381	7581	7680	7267	
75	3196	4022	4883	4873	4525	4706
80	1568	2041	2539	2489	2250	
85	314	498	657	657	533	835
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	24168	21.97	28.18
0-40	40120	36.47	46.78
0-60	70584	64.17	82.30
0-90	85769	77.97	100.00
40-90	45649	41.50	53.22
60-90	15185	13.80	17.70
90-180	0	.00	.00
0-180	85769	77.97	100.00

\*\* EFFICIENCY = 78.0% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .91 S/MH = 1.4  
 SC(ALONG) = 1.3, SC(ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	64120	71952	75457
55	54369	66669	68596
65	41915	57451	56807
75	28756	43993	40871
85	8380	17603	14287

CERTIFIED BY:

DATE:

OCT 15, 2001

PREPARED FOR:

BELL LIGHTING TECHNOLOGIES INC.  
 VICTORIA, B.C.

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

LIGHTING SCIENCES CANADA LTD.  
 440 PHILLIP ST. UNIT 19  
 WATERLOO, ONTARIO CANADA N2L 5R9

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BELL LIGHTING HID LUMINAIRE CAT. NO. LF1000 SM-DR-MH  
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 ONE 1000W CLEAR METAL HALIDE LAMP. LUMEN RATING = 110000 LMS.

CANDLEPOWER DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	29881	29881	29881	29881	29881	29881	
2.5	29845	29989	29865	29810	29760	29867	
5.0	29800	29905	29845	29920	29860	29875	2894
7.5	29696	29820	29845	29870	29895	29833	
10.0	29691	29696	29885	29975	30024	29853	
12.5	29447	29556	29676	29800	29989	29688	
15.0	29153	29298	29497	29666	29880	29494	8324
17.5	28825	28959	29228	29497	29651	29230	
20.0	28402	28700	28949	29347	29482	28985	
22.5	27869	28267	28521	29009	29228	28586	
25.0	27307	27620	28133	28665	28969	28139	12951
27.5	26600	27028	27625	28207	28511	27604	
30.0	25933	26276	27013	27740	28158	27018	
32.5	25097	25554	26356	27098	27536	26331	
35.0	24230	24683	25679	26470	26844	25592	15952
37.5	23175	23698	24848	25674	26022	24705	
40.0	22030	22613	23942	24753	25116	23720	
42.5	20781	21398	22916	23658	24026	22594	
45.0	19467	20209	21762	22454	22822	21392	16429
47.5	18033	18944	20537	21214	21463	20111	
50.0	16530	17501	19153	19721	19895	18647	
52.5	14957	16152	17805	18337	18422	17246	
55.0	13389	14629	16356	16809	16829	15726	14035
57.5	11896	13280	14898	15301	15266	14265	
60.0	10413	11762	13365	13743	13559	12714	
62.5	8930	10328	11871	12190	11936	11206	
65.0	7606	8945	10388	10572	10269	9710	9643
67.5	6396	7631	8930	9129	8760	8317	
70.0	5266	6381	7581	7680	7267	6977	
72.5	4156	5142	6162	6202	5834	5625	
75.0	3196	4022	4883	4873	4525	4409	4706
77.5	2344	2977	3624	3584	3305	3252	
80.0	1568	2041	2539	2489	2250	2244	
82.5	866	1190	1503	1458	1264	1304	
85.0	314	498	657	657	533	559	835
87.5	50	75	134	119	50	95	
90.0	0	0	0	0	0	0	

LIGHTING SCIENCES CANADA LTD.  
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BELL LIGHTING HID LUMINAIRE CAT. NO. LF1000 SM-DR-MH  
WITH WHITE PAINTED REFLECTOR AND PINHEAD OBSCURE GLASS LENS  
ONE 1000W CLEAR METAL HALIDE LAMP. LUMEN RATING = 110000 LMS.

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	69594( 20312)	69594( 20312)	69594( 20312)	69594( 20312)	69594( 20312)
30	69743( 20355)	70865( 20683)	72836( 21258)	74782( 21826)	75726( 22101)
40	66980( 19549)	68933( 20119)	72860( 21265)	75462( 22024)	76363( 22287)
45	64120( 18714)	66648( 19452)	71952( 21000)	74176( 21649)	75457( 22023)
50	59895( 17481)	63652( 18577)	69412( 20259)	71653( 20913)	72087( 21039)
55	54369( 15868)	59509( 17368)	66669( 19458)	68459( 19981)	68596( 20021)
60	48505( 14156)	54977( 16046)	62317( 18188)	64181( 18732)	63158( 18433)
65	41915( 12233)	49340( 14400)	57451( 16767)	58450( 17059)	56807( 16579)
70	35861( 10466)	43609( 12728)	51772( 15110)	52413( 15297)	49487( 14443)
75	28756( 8393)	36330( 10603)	43993( 12840)	44002( 12842)	40871( 11928)
80	21030( 6137)	27477( 8019)	34179( 9975)	33428( 9756)	30176( 8807)
85	8380( 2445)	13348( 3895)	17603( 5137)	17621( 5143)	14287( 4169)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LIGHTING SCIENCES CANADA LTD.  
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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.93	.93	.93	.93	.91	.91	.91	.91	.87	.87	.87	.83	.83	.83	.80	.80	.80	.78
1	.86	.83	.80	.77	.84	.81	.78	.76	.78	.75	.73	.75	.73	.71	.72	.70	.69	.68
2	.79	.73	.69	.65	.77	.72	.68	.64	.69	.66	.63	.67	.64	.61	.65	.62	.60	.58
3	.73	.65	.59	.55	.71	.64	.59	.54	.62	.57	.53	.60	.56	.53	.58	.55	.52	.50
4	.67	.58	.52	.47	.65	.58	.52	.47	.56	.51	.47	.54	.49	.46	.52	.48	.45	.44
5	.62	.52	.46	.41	.60	.51	.45	.41	.50	.44	.40	.48	.44	.40	.47	.43	.39	.38
6	.57	.47	.40	.36	.55	.46	.40	.35	.45	.39	.35	.43	.39	.35	.42	.38	.34	.33
7	.52	.42	.35	.31	.51	.41	.35	.31	.40	.34	.30	.39	.34	.30	.38	.33	.30	.28
8	.48	.38	.32	.27	.47	.37	.31	.27	.36	.31	.27	.36	.30	.27	.35	.30	.26	.25
9	.45	.35	.28	.24	.44	.34	.28	.24	.33	.28	.24	.32	.27	.23	.31	.27	.23	.22
10	.41	.31	.25	.21	.41	.31	.25	.21	.30	.25	.21	.29	.24	.21	.29	.24	.21	.19

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 1100  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.