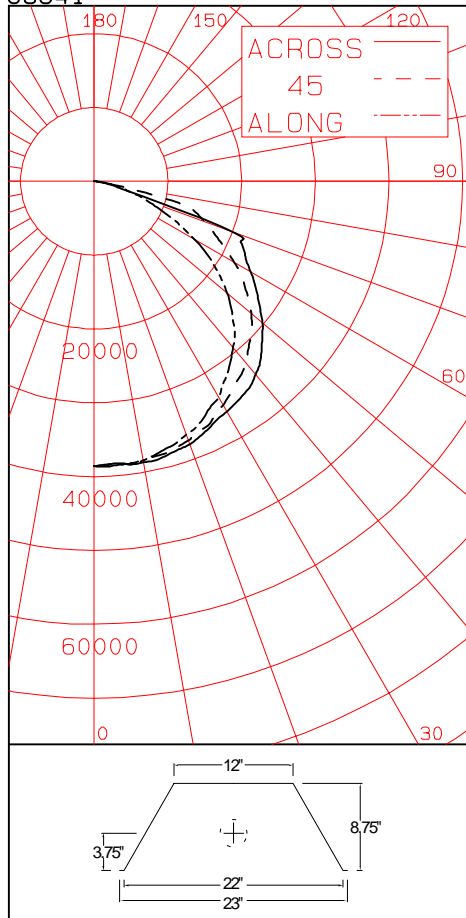


CERTIFIED TEST REPORT NO. LSC8641
 COMPUTED BY LSC PROGRAM **TEST-LITE**

BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF1000 HPS
 WITH WHITE COATED INTERIOR
 ONE 1000W CLEAR HPS LAMP. LUMEN RATING = 140000 LMS.

C8641



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	38591	38591	38591	38591	38591	
5	38537	38569	38468	38762	38335	3732
10	38367	38257	38321	38505	38638	
15	37505	37643	38097	38436	38367	10721
20	36501	36836	37382	37606	37913	
25	35259	35492	36533	36634	36882	16660
30	33837	34089	34974	35758	35997	
35	31627	32457	33443	35089	35282	20993
40	29303	30389	31967	33489	34112	
45	26671	27703	29972	31719	32132	22878
50	23558	24814	27822	29202	29825	
55	19867	21522	25002	26808	27070	21592
60	15704	18010	21944	24094	24507	
65	11371	13975	18698	21568	22517	17652
70	7506	10316	15869	19285	20334	
75	4305	6804	12765	3925	3792	8127
80	1541	2155	1967	2192	2164	
85	243	353	601	747	779	770
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	31113	22.22	25.27
0-40	52105	37.22	42.32
0-60	96575	68.98	78.44
0-90	123124	87.95	100.00
40-90	71018	50.73	57.68
60-90	26548	18.96	21.56
90-180	0	.00	.00
0-180	123124	87.95	100.00

** EFFICIENCY = 87.9% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .89 S/MH = 1.4
 SC(ALONG) = 1.3, SC(ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	88581	99925	107125
55	81343	102760	111259
65	63187	104269	125604
75	39066	115964	34537
85	6548	16226	21083

CERTIFIED BY:

DATE:

MAR 15, 2001

PREPARED FOR:

BELL LIGHTING TECHNOLOGIES INC.
 VICTORIA, BRITISH COLUMBIA

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 TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF1000 HPS
 WITH WHITE COATED INTERIOR
 ONE 1000W CLEAR HPS LAMP. LUMEN RATING = 140000 LMS.

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	38591	38591	38591	38591	38591	38591	
2.5	38661	38592	38468	38729	38413	38582	
5.0	38537	38569	38468	38762	38335	38559	3732
7.5	38560	38312	38560	38546	38679	38509	
10.0	38367	38257	38321	38505	38638	38397	
12.5	37964	38111	38166	38656	38716	38318	
15.0	37505	37643	38097	38436	38367	38028	10721
17.5	37148	37180	37652	38042	38069	37620	
20.0	36501	36836	37382	37606	37913	37258	
22.5	36084	36043	36712	37148	37427	36665	
25.0	35259	35492	36533	36634	36882	36183	16660
27.5	34319	34965	35635	36185	36309	35525	
30.0	33837	34089	34974	35758	35997	34935	
32.5	32558	33379	34273	35392	35648	34287	
35.0	31627	32457	33443	35089	35282	33611	20993
37.5	30476	31384	32884	34241	34878	32797	
40.0	29303	30389	31967	33489	34112	31888	
42.5	28262	29014	30935	32774	33319	30878	
45.0	26671	27703	29972	31719	32132	29699	22878
47.5	25236	26313	29055	30619	30949	28520	
50.0	23558	24814	27822	29202	29825	27132	
52.5	21747	23269	26455	27946	28404	25686	
55.0	19867	21522	25002	26808	27070	24200	21592
57.5	18005	19807	23613	25373	25841	22679	
60.0	15704	18010	21944	24094	24507	21038	
62.5	13507	15970	20279	22742	23278	19346	
65.0	11371	13975	18698	21568	22517	17796	17652
67.5	9298	12109	17203	20527	21522	16312	
70.0	7506	10316	15869	19285	20334	14847	
72.5	5905	8670	14704	15552	6983	11343	
75.0	4305	6804	12765	3925	3792	6886	8127
77.5	2737	4319	7130	2994	2948	4321	
80.0	1541	2155	1967	2192	2164	2041	
82.5	610	821	1215	1426	1440	1122	
85.0	243	353	601	747	779	553	770
87.5	28	92	183	188	197	144	
90.0	0	0	0	0	0	0	

LIGHTING SCIENCES CANADA LTD.
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BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF1000 HPS
 WITH WHITE COATED INTERIOR
 ONE 1000W CLEAR HPS LAMP. LUMEN RATING = 140000 LMS.

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	90630(26451)	90630(26451)	90630(26451)	90630(26451)	90630(26451)
30	91759(26781)	92703(27056)	95088(27753)	97203(28370)	97615(28490)
40	89834(26219)	93411(27263)	98092(28629)	102944(30045)	104579(30522)
45	88581(25853)	92124(26887)	99925(29164)	105658(30838)	107125(31266)
50	86070(25120)	91002(26560)	101666(29673)	106985(31225)	108969(31804)
55	81343(23741)	88280(25765)	102760(29992)	110095(32133)	111259(32472)
60	73759(21527)	84883(24774)	103174(30112)	113461(33115)	115107(33595)
65	63187(18442)	77731(22687)	104269(30432)	120235(35092)	125604(36659)
70	51537(15042)	71089(20748)	109278(31894)	132702(38731)	139627(40752)
75	39066(11402)	61976(18088)	115964(33845)	35735(10429)	34537(10080)
80	20835(6081)	29256(8538)	26704(7794)	29682(8663)	29268(8542)
85	6548(1911)	9546(2786)	16226(4735)	20211(5898)	21083(6153)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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

CERTIFIED TEST REPORT NO. LSC8641
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BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF1000 HPS
 WITH WHITE COATED INTERIOR
 ONE 1000W CLEAR HPS LAMP. LUMEN RATING = 140000 LMS.

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	1.05	1.05	1.05	1.05	1.02	1.02	1.02	1.02	.98	.98	.98	.94	.94	.94	.90	.90	.90	.88
1	.97	.93	.89	.86	.94	.91	.88	.85	.87	.84	.82	.84	.82	.80	.80	.79	.77	.75
2	.88	.82	.76	.71	.86	.80	.75	.71	.77	.73	.69	.74	.71	.67	.72	.69	.66	.64
3	.81	.72	.65	.60	.78	.70	.64	.59	.68	.63	.58	.65	.61	.57	.63	.59	.56	.54
4	.74	.64	.57	.51	.72	.63	.56	.51	.61	.55	.50	.59	.53	.49	.57	.52	.49	.47
5	.68	.57	.49	.43	.66	.56	.48	.43	.54	.48	.43	.52	.47	.42	.51	.46	.42	.40
6	.62	.51	.43	.37	.61	.50	.42	.37	.48	.42	.37	.47	.41	.36	.45	.40	.36	.34
7	.57	.45	.37	.32	.56	.44	.37	.32	.43	.36	.32	.42	.36	.31	.41	.35	.31	.29
8	.53	.41	.33	.28	.51	.40	.33	.28	.39	.32	.28	.38	.32	.28	.37	.31	.27	.26
9	.49	.37	.30	.25	.48	.36	.29	.25	.35	.29	.24	.34	.28	.24	.33	.28	.24	.22
10	.45	.34	.26	.22	.44	.33	.26	.22	.32	.26	.22	.31	.25	.21	.31	.25	.21	.20

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.