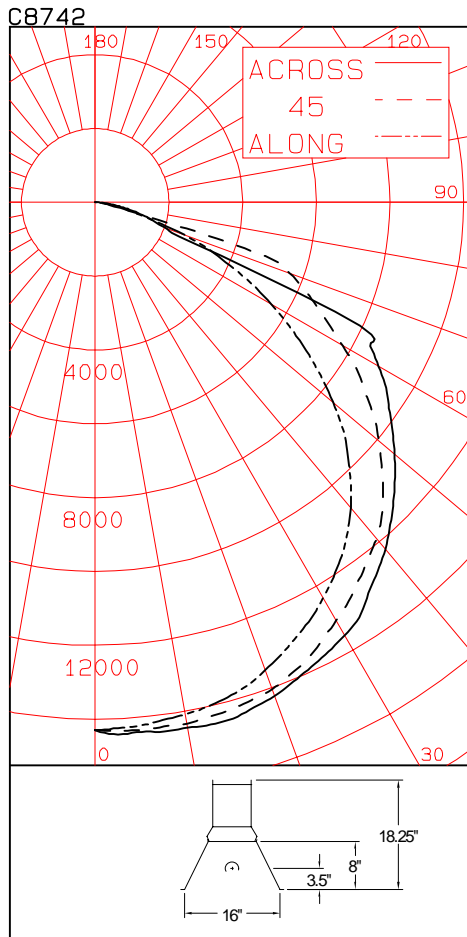


CERTIFIED TEST REPORT NO. LSC8742
 COMPUTED BY LSC PROGRAM **TEST-LITE**

BELL LIGHTING TECHNOLOGIES LUMINAIRE CAT. NO. LF400 HPS
 WITH WHITE PAINTED REFLECTOR
 ONE 400W CLEAR HPS LAMP. LUMEN RATING = 50000 LMS.



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	14307	14307	14307	14307	14307	
5	14232	14249	14351	14387	14397	1388
10	14087	14251	14343	14438	14451	
15	13883	13985	14224	14437	14476	4003
20	13489	13698	14042	14128	14231	
25	12967	13244	13649	13810	13886	6236
30	12377	12797	13078	13422	13547	
35	11672	12195	12486	12935	12935	7797
40	10794	11405	11879	12224	12253	
45	9707	10388	11057	11361	11454	8345
50	8420	9146	10048	10442	10609	
55	6986	7779	8946	9536	9736	7736
60	5520	6387	7750	8640	8886	
65	4043	5058	6623	7648	7926	5858
70	2552	3752	5619	2086	2022	
75	1172	1790	1237	1341	1332	1846
80	325	442	652	711	723	
85	69	79	168	214	220	218
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	11628	23.26	26.78
0-40	19425	38.85	44.73
0-60	35506	71.01	81.76
0-90	43428	86.86	100.00
40-90	24003	48.01	55.27
60-90	7922	15.84	18.24
90-180	0	.00	.00
0-180	43428	86.86	100.00

** EFFICIENCY = 86.9% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .92 S/MH = 1.4
 SC(ALONG) = 1.3, SC(ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	59105	67580	70012
55	52438	67410	73363
65	41190	67710	81056
75	19493	20609	22245
85	3384	8301	10914

CERTIFIED BY:

DATE:
 MAY 25, 2001

PREPARED FOR:

BELL LIGHTING TECH. 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

CERTIFIED TEST REPORT NO. LSC8742
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BELL LIGHTING TECHNOLOGIES LUMINAIRE CAT. NO. LF400 HPS
 WITH WHITE PAINTED REFLECTOR
 ONE 400W CLEAR HPS LAMP. LUMEN RATING = 50000 LMS.

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	14307	14307	14307	14307	14307	14307	
2.5	14259	14278	14326	14372	14431	14330	
5.0	14232	14249	14351	14387	14397	14325	1388
7.5	14145	14221	14323	14423	14461	14318	
10.0	14087	14251	14343	14438	14451	14325	
12.5	14004	14113	14279	14365	14496	14252	
15.0	13883	13985	14224	14437	14476	14206	4003
17.5	13722	13861	14135	14273	14343	14075	
20.0	13489	13698	14042	14128	14231	13932	
22.5	13241	13569	13845	13950	14056	13753	
25.0	12967	13244	13649	13810	13886	13533	6236
27.5	12696	13064	13361	13558	13724	13298	
30.0	12377	12797	13078	13422	13547	13065	
32.5	12039	12497	12811	13202	13333	12799	
35.0	11672	12195	12486	12935	12935	12480	7797
37.5	11259	11896	12180	12548	12594	12138	
40.0	10794	11405	11879	12224	12253	11758	
42.5	10264	10936	11519	11790	11857	11326	
45.0	9707	10388	11057	11361	11454	10847	8345
47.5	9134	9819	10541	10886	11035	10333	
50.0	8420	9146	10048	10442	10609	9787	
52.5	7723	8435	9541	10020	10178	9237	
55.0	6986	7779	8946	9536	9736	8656	7736
57.5	6253	7094	8413	9085	9369	8100	
60.0	5520	6387	7750	8640	8886	7495	
62.5	4801	5724	7134	8191	8423	6915	
65.0	4043	5058	6623	7648	7926	6328	5858
67.5	3345	4424	6132	6480	2919	5042	
70.0	2552	3752	5619	2086	2022	3436	
72.5	1743	2693	4843	1662	1651	2724	
75.0	1172	1790	1237	1341	1332	1405	1846
77.5	609	886	926	1004	1007	906	
80.0	325	442	652	711	723	582	
82.5	171	232	388	461	449	347	
85.0	69	79	168	214	220	151	218
87.5	0	7	29	7	29	15	
90.0	0	0	0	0	0	0	

LIGHTING SCIENCES CANADA LTD.
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BELL LIGHTING TECHNOLOGIES LUMINAIRE CAT. NO. LF400 HPS
WITH WHITE PAINTED REFLECTOR
ONE 400W CLEAR HPS LAMP. LUMEN RATING = 50000 LMS.

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	61598(17978)	61598(17978)	61598(17978)	61598(17978)	61598(17978)
30	61534(17959)	63799(18620)	65187(19026)	66890(19523)	67352(19657)
40	60668(17707)	64270(18758)	66826(19504)	68890(20106)	68869(20100)
45	59105(17250)	63330(18483)	67580(19724)	69382(20250)	70012(20434)
50	56399(16460)	61492(17947)	67315(19647)	70132(20469)	71062(20740)
55	52438(15305)	58496(17073)	67410(19674)	71800(20955)	73363(21412)
60	47529(13872)	55187(16107)	66799(19496)	74592(21770)	76521(22333)
65	41190(12022)	51573(15052)	67710(19762)	78160(22812)	81056(23657)
70	32127(9376)	47396(13833)	70936(20703)	26312(7679)	25448(7427)
75	19493(5689)	29888(8723)	20609(6015)	22383(6532)	22245(6492)
80	8058(2352)	10992(3208)	16216(4732)	17660(5154)	17924(5231)
85	3384(987)	3901(1138)	8301(2422)	10622(3100)	10914(3185)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LIGHTING SCIENCES CANADA LTD.
 440 PHILLIP ST. UNIT 19
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CERTIFIED TEST REPORT NO. LSC8742
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BELL LIGHTING TECHNOLOGIES LUMINAIRE CAT. NO. LF400 HPS
 WITH WHITE PAINTED REFLECTOR
 ONE 400W CLEAR HPS LAMP. LUMEN RATING = 50000 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	1.03	1.03	1.03	1.03	1.01	1.01	1.01	1.01	.97	.97	.97	.92	.92	.92	.89	.89	.89	.87
1	.96	.92	.89	.86	.94	.90	.87	.85	.87	.84	.82	.83	.81	.79	.80	.79	.77	.75
2	.88	.82	.77	.72	.86	.80	.75	.71	.77	.73	.70	.74	.71	.68	.72	.69	.67	.65
3	.81	.72	.66	.61	.79	.71	.65	.60	.69	.64	.59	.66	.62	.58	.64	.61	.57	.56
4	.74	.65	.58	.52	.72	.64	.57	.52	.61	.56	.51	.59	.55	.51	.58	.53	.50	.48
5	.68	.58	.50	.45	.66	.57	.50	.44	.55	.49	.44	.53	.48	.44	.52	.47	.43	.41
6	.63	.51	.44	.39	.61	.51	.43	.38	.49	.43	.38	.48	.42	.38	.46	.41	.37	.36
7	.57	.46	.38	.33	.56	.45	.38	.33	.44	.37	.33	.42	.37	.32	.41	.36	.32	.31
8	.53	.41	.34	.29	.52	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.32	.28	.27
9	.49	.38	.30	.25	.48	.37	.30	.25	.36	.30	.25	.35	.29	.25	.34	.29	.25	.23
10	.45	.34	.27	.22	.44	.34	.27	.22	.33	.27	.22	.32	.26	.22	.31	.26	.22	.20

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 440.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.