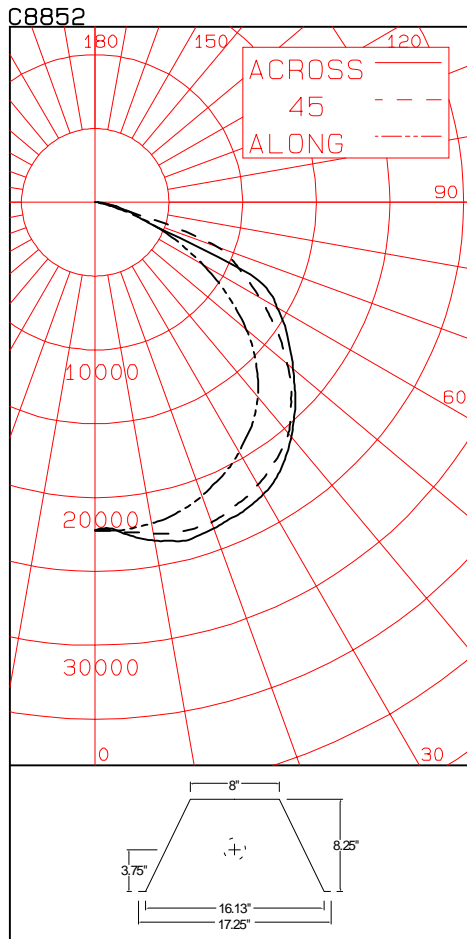


CERTIFIED TEST REPORT NO. LSC8852  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF600 SM-DR-HPS  
 WITH WHITE PAINTED INTERIOR  
 ONE 600W VENTURE SUNMASTER CLEAR HPS LAMP. LUMEN RATING = 85000 LMS.



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	22209	22209	22209	22209	22209	
5	22289	22324	22455	22496	22506	2182
10	22080	22256	22769	23094	23270	
15	21716	22320	23066	23548	23713	6459
20	21180	22063	23063	23370	23500	
25	20431	21654	22624	23126	23251	10288
30	19507	21033	22083	22778	22832	
35	18494	20197	21346	22029	21993	13074
40	17185	19046	20409	20730	20702	
45	15446	17526	18817	19209	19206	14007
50	13384	15552	17018	17336	17539	
55	10971	13409	15026	15684	15937	12840
60	8448	10889	12863	14143	14249	
65	5945	8498	10852	12431	11604	9410
70	3664	6139	8913	3695	3501	
75	1549	2639	2163	2286	2291	2871
80	578	743	1094	1228	1254	
85	73	150	323	415	424	388
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	18928	22.27	26.47
0-40	32003	37.65	44.75
0-60	58850	69.24	82.29
0-90	71520	84.14	100.00
40-90	39516	46.49	55.25
60-90	12669	14.90	17.71
90-180	0	.00	.00
0-180	71520	84.14	100.00

\*\* EFFICIENCY = 84.1% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .93 S/MH = 1.5  
 SC(ALONG) = 1.3, SC(ACROSS) = 1.5

ANGLE	ALONG	45	ACROSS
45	96506	118023	120462
55	84509	116183	123229
65	62152	113848	121775
75	26445	36962	39258
85	3708	16438	21553

CERTIFIED BY:

DATE:  
 AUG 21, 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

CERTIFIED TEST REPORT NO. LSC8852  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF600 SM-DR-HPS  
 WITH WHITE PAINTED INTERIOR  
 ONE 600W VENTURE SUNMASTER CLEAR HPS LAMP. LUMEN RATING = 85000 LMS.

CANDLEPOWER DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	22209	22209	22209	22209	22209	22209	
2.5	22249	22230	22246	22315	22095	22241	
5.0	22289	22324	22455	22496	22506	22418	2182
7.5	22152	22255	22547	22846	22926	22547	
10.0	22080	22256	22769	23094	23270	22699	
12.5	21957	22315	22963	23317	23487	22829	
15.0	21716	22320	23066	23548	23713	22912	6459
17.5	21490	22126	23085	23520	23615	22821	
20.0	21180	22063	23063	23370	23500	22709	
22.5	20788	21853	22882	23265	23337	22515	
25.0	20431	21654	22624	23126	23251	22311	10288
27.5	20020	21381	22430	22970	23059	22080	
30.0	19507	21033	22083	22778	22832	21766	
32.5	18989	20663	21757	22452	22518	21406	
35.0	18494	20197	21346	22029	21993	20954	13074
37.5	17859	19657	20939	21374	21390	20399	
40.0	17185	19046	20409	20730	20702	19782	
42.5	16348	18332	19653	19976	19965	19029	
45.0	15446	17526	18817	19209	19206	18220	14007
47.5	14483	16643	18002	18296	18354	17340	
50.0	13384	15552	17018	17336	17539	16342	
52.5	12200	14541	16048	16433	16755	15375	
55.0	10971	13409	15026	15684	15937	14393	12840
57.5	9765	12202	13936	14985	15195	13401	
60.0	8448	10889	12863	14143	14249	12311	
62.5	7177	9665	11836	13224	13415	11255	
65.0	5945	8498	10852	12431	11604	10139	9410
67.5	4785	7324	10025	8969	5184	7826	
70.0	3664	6139	8913	3695	3501	5582	
72.5	2504	4576	5785	2876	2852	3979	
75.0	1549	2639	2163	2286	2291	2252	2871
77.5	925	1150	1545	1708	1724	1432	
80.0	578	743	1094	1228	1254	995	
82.5	286	420	647	778	818	599	
85.0	73	150	323	415	424	284	388
87.5	0	8	64	74	105	50	
90.0	0	0	0	0	0	0	

LIGHTING SCIENCES CANADA LTD.  
 440 PHILLIP ST. UNIT 19  
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CERTIFIED TEST REPORT NO. LSC8852  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF600 SM-DR-HPS  
 WITH WHITE PAINTED INTERIOR  
 ONE 600W VENTURE SUNMASTER CLEAR HPS LAMP. LUMEN RATING = 85000 LMS.

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	98120( 28637)	98120( 28637)	98120( 28637)	98120( 28637)	98120( 28637)
30	99515( 29044)	107602( 31405)	112948( 32965)	116486( 33998)	116480( 33996)
40	99112( 28927)	110136( 32144)	117817( 34386)	119880( 34988)	119395( 34847)
45	96506( 28166)	109646( 32001)	118023( 34446)	120375( 35133)	120462( 35158)
50	91995( 26850)	107299( 31316)	116990( 34145)	119486( 34873)	120552( 35185)
55	84509( 24665)	103471( 30199)	116183( 33909)	121175( 35366)	123229( 35966)
60	74648( 21787)	96552( 28180)	113778( 33207)	125292( 36568)	125911( 36749)
65	62152( 18139)	88922( 25953)	113848( 33228)	130368( 38049)	121775( 35541)
70	47335( 13815)	79584( 23228)	115465( 33700)	47836( 13961)	45230( 13201)
75	26445( 7718)	45218( 13197)	36962( 10788)	39155( 11428)	39258( 11458)
80	14695( 4289)	18980( 5539)	27930( 8151)	31296( 9134)	31905( 9312)
85	3708( 1082)	7639( 2229)	16438( 4797)	21092( 6156)	21553( 6290)

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. LSC8852  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF600 SM-DR-HPS  
 WITH WHITE PAINTED INTERIOR  
 ONE 600W VENTURE SUNMASTER CLEAR HPS LAMP. LUMEN RATING = 85000 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	1.00	1.00	1.00	1.00	.98	.98	.98	.98	.93	.93	.93	.90	.90	.90	.86	.86	.86	.84
1	.93	.89	.86	.83	.91	.88	.85	.82	.84	.82	.79	.81	.79	.77	.78	.76	.75	.73
2	.85	.79	.74	.70	.83	.78	.73	.69	.75	.71	.68	.72	.69	.66	.70	.67	.65	.63
3	.78	.70	.64	.59	.76	.69	.63	.59	.67	.62	.58	.64	.60	.57	.62	.59	.56	.54
4	.72	.63	.56	.51	.70	.62	.55	.50	.60	.54	.50	.58	.53	.49	.56	.52	.48	.47
5	.66	.56	.49	.43	.64	.55	.48	.43	.53	.47	.43	.51	.46	.42	.50	.46	.42	.40
6	.61	.50	.43	.37	.59	.49	.42	.37	.47	.41	.37	.46	.41	.37	.45	.40	.36	.35
7	.55	.44	.37	.32	.54	.44	.37	.32	.42	.36	.32	.41	.36	.31	.40	.35	.31	.30
8	.51	.40	.33	.28	.50	.39	.33	.28	.38	.32	.28	.37	.32	.28	.36	.31	.27	.26
9	.47	.36	.29	.25	.46	.36	.29	.25	.35	.29	.24	.34	.28	.24	.33	.28	.24	.22
10	.44	.33	.26	.22	.43	.32	.26	.22	.31	.26	.21	.31	.25	.21	.30	.25	.21	.20

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 660.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.