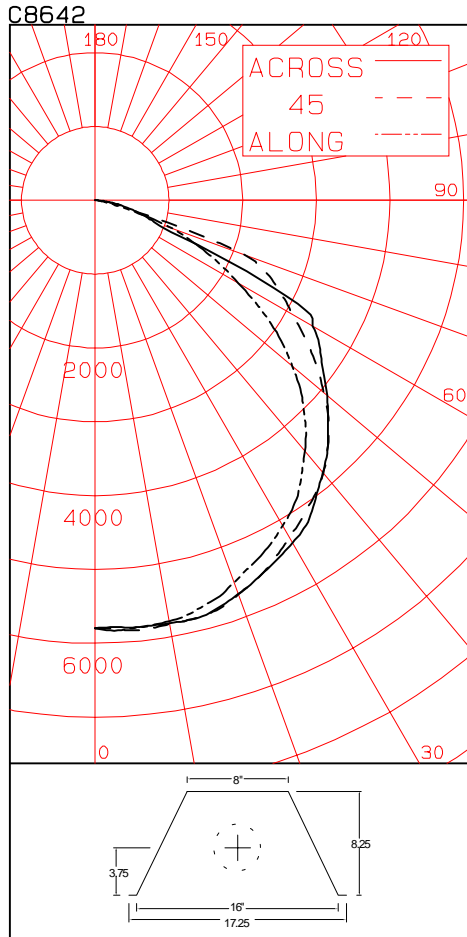


CERTIFIED TEST REPORT NO. LSC8642
 COMPUTED BY LSC PROGRAM **TEST-LITE**

BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF250 MH
 WITH WHITE COATED INTERIOR
 ONE 250W CLEAR METAL HALIDE LAMP. LUMEN RATING = 20500 LMS.



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	5795	5795	5795	5795	5795	
5	5819	5817	5848	5824	5807	564
10	5789	5800	5827	5807	5816	
15	5686	5744	5809	5799	5808	1625
20	5510	5578	5681	5668	5675	
25	5313	5427	5510	5508	5517	2517
30	5088	5255	5271	5345	5355	
35	4817	4989	5054	5140	5134	3143
40	4429	4652	4820	4787	4811	
45	4005	4228	4480	4470	4471	3347
50	3495	3752	4045	4073	4108	
55	2916	3191	3586	3708	3745	3083
60	2240	2568	3095	3368	3410	
65	1663	2003	2700	2775	2263	2247
70	1109	1554	2139	889	850	
75	393	660	541	555	552	712
80	141	198	289	302	312	
85	18	37	83	95	117	98
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4706	22.96	27.15
0-40	7849	38.29	45.28
0-60	14279	69.66	82.37
0-90	17336	84.57	100.00
40-90	9487	46.28	54.72
60-90	3056	14.91	17.63
90-180	0	.00	.00
0-180	17336	84.57	100.00

** EFFICIENCY = 84.6% **

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	24117	27083	27025
55	21648	26725	27910
65	16761	27298	22891
75	6467	8911	9110
85	870	4082	5717

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. LF250 MH
 WITH WHITE COATED INTERIOR
 ONE 250W CLEAR METAL HALIDE LAMP. LUMEN RATING = 20500 LMS.

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	5795	5795	5795	5795	5795	5795	
2.5	5833	5817	5809	5789	5787	5806	
5.0	5819	5817	5848	5824	5807	5826	564
7.5	5809	5828	5843	5802	5808	5821	
10.0	5789	5800	5827	5807	5816	5809	
12.5	5757	5784	5825	5800	5827	5800	
15.0	5686	5744	5809	5799	5808	5775	1625
17.5	5622	5656	5768	5741	5749	5713	
20.0	5510	5578	5681	5668	5675	5630	
22.5	5405	5524	5601	5581	5602	5552	
25.0	5313	5427	5510	5508	5517	5465	2517
27.5	5211	5328	5391	5412	5440	5364	
30.0	5088	5255	5271	5345	5355	5273	
32.5	4970	5124	5170	5237	5275	5163	
35.0	4817	4989	5054	5140	5134	5040	3143
37.5	4617	4840	4949	4966	4959	4886	
40.0	4429	4652	4820	4787	4811	4720	
42.5	4233	4440	4659	4610	4657	4538	
45.0	4005	4228	4480	4470	4471	4354	3347
47.5	3777	4012	4283	4267	4285	4148	
50.0	3495	3752	4045	4073	4108	3918	
52.5	3217	3491	3823	3881	3918	3691	
55.0	2916	3191	3586	3708	3745	3454	3083
57.5	2583	2903	3334	3553	3601	3220	
60.0	2240	2568	3095	3368	3410	2964	
62.5	1955	2266	2896	3206	3223	2739	
65.0	1663	2003	2700	2775	2263	2360	2247
67.5	1379	1775	2485	1839	1120	1837	
70.0	1109	1554	2139	889	850	1391	
72.5	771	1301	1183	702	699	980	
75.0	393	660	541	555	552	557	712
77.5	219	286	405	419	422	358	
80.0	141	198	289	302	312	254	
82.5	72	113	165	185	188	148	
85.0	18	37	83	95	117	71	98
87.5	0	0	23	17	28	14	
90.0	0	0	0	0	0	0	

LIGHTING SCIENCES CANADA LTD.
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BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF250 MH
WITH WHITE COATED INTERIOR
ONE 250W CLEAR METAL HALIDE LAMP. LUMEN RATING = 20500 LMS.

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	24675(7201)	24675(7201)	24675(7201)	24675(7201)	24675(7201)
30	25018(7302)	25911(7562)	25986(7584)	26342(7688)	26331(7685)
40	24620(7185)	25926(7566)	26817(7827)	26682(7787)	26741(7804)
45	24117(7038)	25495(7441)	27083(7904)	26996(7879)	27025(7887)
50	23150(6756)	24948(7281)	26803(7822)	27057(7897)	27216(7943)
55	21648(6318)	23733(6927)	26725(7800)	27607(8057)	27910(8145)
60	19074(5567)	21943(6404)	26383(7700)	28760(8394)	29039(8475)
65	16761(4891)	20201(5896)	27298(7967)	28048(8186)	22891(6681)
70	13813(4031)	19412(5665)	26714(7796)	11095(3238)	10586(3089)
75	6467(1887)	10900(3181)	8911(2601)	9162(2674)	9110(2658)
80	3461(1010)	4874(1422)	7103(2073)	7417(2164)	7643(2230)
85	870(254)	1795(523)	4082(1191)	4677(1365)	5717(1668)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LIGHTING SCIENCES CANADA LTD.
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BELL LIGHTING TECHNOLOGIES INDOOR HID FIXTURE CAT. NO. LF250 MH
 WITH WHITE COATED INTERIOR
 ONE 250W CLEAR METAL HALIDE LAMP. LUMEN RATING = 20500 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	1.0	1.0	1.0	1.0	.98	.98	.98	.98	.94	.94	.94	.90	.90	.90	.86	.86	.86	.85
1	.93	.90	.87	.84	.91	.88	.85	.82	.84	.82	.80	.81	.79	.77	.78	.77	.75	.74
2	.86	.80	.75	.70	.84	.78	.74	.70	.75	.71	.68	.73	.69	.67	.70	.68	.65	.63
3	.79	.71	.64	.60	.77	.69	.64	.59	.67	.62	.58	.65	.61	.57	.63	.59	.56	.54
4	.73	.63	.56	.51	.71	.62	.56	.51	.60	.55	.50	.58	.53	.50	.56	.52	.49	.47
5	.67	.56	.49	.44	.65	.55	.49	.44	.54	.48	.43	.52	.47	.43	.50	.46	.42	.41
6	.61	.50	.43	.38	.60	.49	.43	.38	.48	.42	.37	.47	.41	.37	.45	.40	.37	.35
7	.56	.45	.38	.33	.55	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30
8	.52	.41	.34	.29	.51	.40	.33	.29	.39	.33	.28	.38	.32	.28	.37	.32	.28	.26
9	.48	.37	.30	.25	.47	.36	.30	.25	.35	.29	.25	.34	.29	.25	.33	.28	.24	.23
10	.44	.33	.27	.22	.44	.33	.27	.22	.32	.26	.22	.31	.26	.22	.31	.25	.22	.20

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 275.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.