



# LIGHTING SCIENCES CANADA LTD.

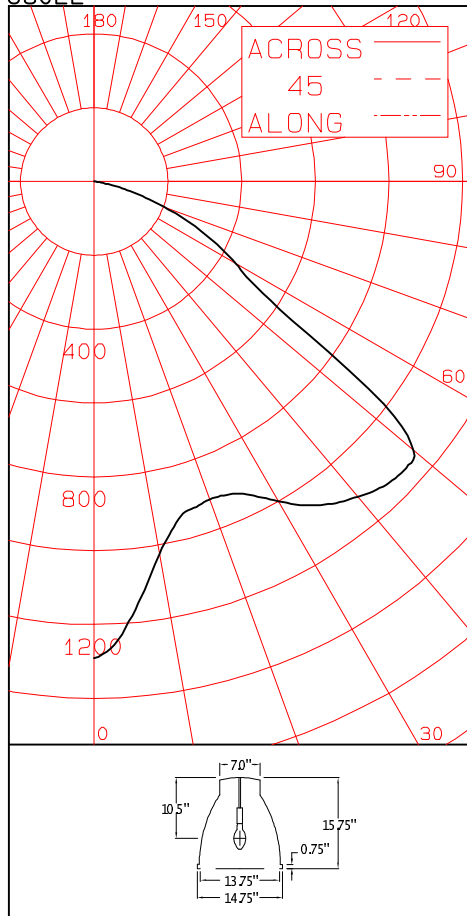
440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9  
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CERTIFIED TEST REPORT NO. LSC8022  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

EUREKA SUSPENSION FIXTURE CAT. NO. E4452-M10  
WITH DIFFUSE REFLECTOR AND CLEAR GLASS LENS  
ONE 100W CLEAR METAL HALIDE LAMP. LUMEN RATING = 9000 LMS.

## CANDLEPOWER SUMMARY

C8022



ANGLE	MEAN CP	LUMENS
0	1291	
5	1180	109
10	1023	
15	932	267
20	916	
25	933	437
30	999	
35	1069	670
40	1114	
45	1145	880
50	1132	
55	655	650
60	445	
65	324	319
70	203	
75	101	112
80	32	
85	2	8
90	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	812	9.03	23.54
0-40	1482	16.48	42.95
0-60	3013	33.48	87.27
0-90	3452	38.37	100.00
40-90	1969	21.89	57.05
60-90	439	4.88	12.73
90-180	0	.00	.00
0-180	3452	38.37	100.00

\*\* EFFICIENCY = 38.4% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2  
SC = 1.2

ANGLE	MEAN CD/SQ M
45	16968
55	11967
65	8041
75	4097
85	187

CERTIFIED BY:

*Charles Lison*

DATE:  
JAN 31, 2000

PREPARED FOR:

EUREKA LIGHTING  
MONTREAL, QUEBEC

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

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CANDLEPOWER DATA  
IN 2.5 DEGREE STEPS

ANGLE	CANDLEPOWER	LUMENS
.0	1291	
2.5	1256	
5.0	1180	109
7.5	1100	
10.0	1023	
12.5	969	
15.0	932	267
17.5	924	
20.0	916	
22.5	920	
25.0	933	437
27.5	962	
30.0	999	
32.5	1039	
35.0	1069	670
37.5	1095	
40.0	1114	
42.5	1133	
45.0	1145	880
47.5	1148	
50.0	1132	
52.5	990	
55.0	655	650
57.5	504	
60.0	445	
62.5	385	
65.0	324	319
67.5	262	
70.0	203	
72.5	147	
75.0	101	112
77.5	63	
80.0	32	
82.5	12	
85.0	2	8
87.5	0	
90.0	0	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE		
0	13477	(	3933)
30	12045	(	3515)
40	15177	(	4429)
45	16968	(	4952)
50	18382	(	5365)
55	11967	(	3492)
60	9280	(	2708)
65	8041	(	2347)
70	6188	(	1806)
75	4097	(	1195)
80	1918	(	559)
85	187	(	54)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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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	.46	.46	.46	.46	.45	.45	.45	.45	.43	.43	.43	.41	.41	.41	.39	.39	.39	.38
1	.42	.41	.40	.38	.41	.40	.39	.38	.38	.37	.36	.37	.36	.35	.36	.35	.34	.34
2	.39	.37	.34	.32	.38	.36	.34	.32	.34	.33	.31	.33	.32	.31	.32	.31	.30	.29
3	.36	.32	.30	.27	.35	.32	.29	.27	.31	.28	.27	.30	.28	.26	.29	.27	.26	.25
4	.33	.29	.26	.24	.32	.28	.26	.23	.27	.25	.23	.27	.24	.23	.26	.24	.22	.22
5	.30	.26	.22	.20	.29	.25	.22	.20	.24	.22	.20	.24	.21	.20	.23	.21	.19	.19
6	.28	.23	.20	.17	.27	.22	.19	.17	.22	.19	.17	.21	.19	.17	.21	.18	.17	.16
7	.25	.20	.17	.15	.25	.20	.17	.14	.19	.16	.14	.19	.16	.14	.18	.16	.14	.13
8	.23	.18	.15	.13	.23	.18	.15	.12	.17	.14	.12	.17	.14	.12	.16	.14	.12	.11
9	.21	.16	.13	.11	.21	.16	.13	.11	.15	.13	.11	.15	.12	.11	.15	.12	.10	.10
10	.20	.14	.11	.09	.19	.14	.11	.09	.14	.11	.09	.13	.11	.09	.13	.11	.09	.08

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 110.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.