



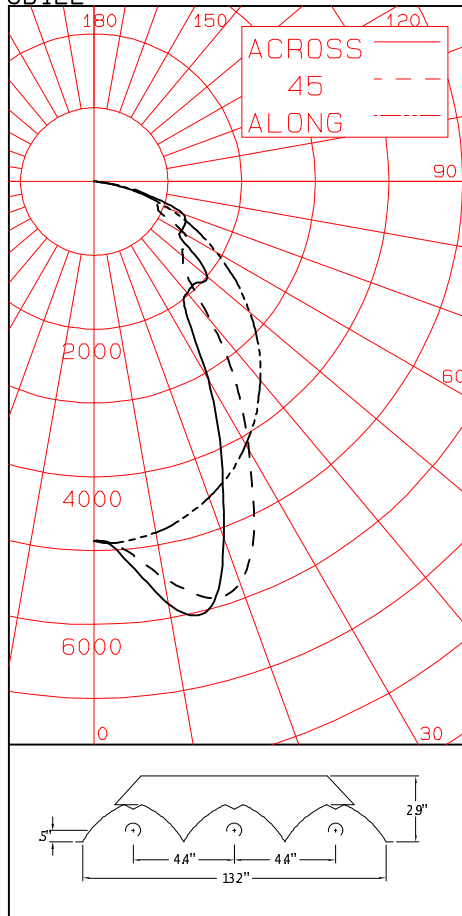
LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC B122
COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING 4' SURFACE MOUNT FLUORESCENT FIXTURE CAT. NO. CL-HI5HO-3L
WITH SPECULAR REFLECTOR
THREE 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4400 LMS.
ONE ADVANCE 120-277V 1 TO 4-LAMP ELECTRONIC BALLAST NO. ICN-4S54-90C-2LS-G

CB122



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	4870	4870	4870	4870	4870	
5	4888	4929	5017	5137	5164	500
10	4830	5019	5458	5732	5810	
15	4707	5169	5832	5966	6005	1554
20	4553	5271	5783	5344	5132	
25	4365	5299	5140	4313	4089	2164
30	4115	5177	4196	3388	3095	
35	3835	4813	3366	2381	2178	2126
40	3506	4162	2470	1965	1972	
45	3154	3318	1757	1857	1945	1857
50	2749	2546	1570	1951	2003	
55	2344	1815	1506	1667	1572	1546
60	1918	1138	1417	1256	1354	
65	1494	850	983	1239	1359	1141
70	1087	742	912	1194	1285	
75	700	506	845	842	834	757
80	348	362	426	354	306	
85	59	94	17	0	0	108
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4217	31.95	35.88
0-40	6343	48.06	53.97
0-60	9746	73.84	82.93
0-90	11752	89.04	100.00
40-90	5409	40.98	46.03
60-90	2006	15.20	17.07
90-180	0	.00	.00
0-180	11752	89.04	100.00

** EFFICIENCY = 89.0% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.1

SC (ALONG) = 1.3, SC (ACROSS) = 1.1

ANGLE	ALONG	45	ACROSS
45	12427	6951	7694
55	11385	7343	7664
65	9851	6505	8993
75	7535	9107	9008
85	1901	558	0

CERTIFIED BY:

Charles Lison

DATE:
MAR 27, 2006

PREPARED FOR:

CUSTOM LIGHTING LTD.
EDMONTON, ALBERTA

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

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 ONE ADVANCE 120-277V 1 TO 4-LAMP ELECTRONIC BALLAST NO. ICN-4S54-90C-2LS-G

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	4870	4870	4870	4870	4870	4870	
2.5	4904	4901	4896	4907	4921	4904	
5.0	4888	4929	5017	5137	5164	5027	500
7.5	4861	4965	5221	5421	5475	5194	
10.0	4830	5019	5458	5732	5810	5382	
12.5	4780	5082	5650	5942	6015	5518	
15.0	4707	5169	5832	5966	6005	5581	1554
17.5	4637	5237	5886	5799	5690	5521	
20.0	4553	5271	5783	5344	5132	5310	
22.5	4459	5294	5527	4793	4573	5032	
25.0	4365	5299	5140	4313	4089	4745	2164
27.5	4243	5256	4637	3845	3590	4414	
30.0	4115	5177	4196	3388	3095	4092	
32.5	3976	5018	3777	2857	2554	3729	
35.0	3835	4813	3366	2381	2178	3392	2126
37.5	3670	4521	2934	2063	1997	3088	
40.0	3506	4162	2470	1965	1972	2834	
42.5	3334	3735	2040	1897	1945	2578	
45.0	3154	3318	1757	1857	1945	2371	1857
47.5	2964	2928	1630	1868	2013	2229	
50.0	2749	2546	1570	1951	2003	2111	
52.5	2550	2180	1509	1857	1837	1935	
55.0	2344	1815	1506	1667	1572	1736	1546
57.5	2133	1447	1500	1415	1371	1529	
60.0	1918	1138	1417	1256	1354	1362	
62.5	1712	952	1215	1246	1361	1237	
65.0	1494	850	983	1239	1359	1125	1141
67.5	1306	779	936	1225	1336	1065	
70.0	1087	742	912	1194	1285	1009	
72.5	887	648	891	1084	1096	903	
75.0	700	506	845	842	834	740	757
77.5	515	404	659	585	562	546	
80.0	348	362	426	354	306	367	
82.5	180	275	186	125	97	181	
85.0	59	94	17	0	0	35	108
87.5	1	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG		CD. / SQ. M.		(FOOTLAMBERTS)		ACROSS	
			22.5		45			
0	13568 (	3960)	13568 (	3960)	13568 (	3960)	13568 (	3960)
30	13238 (	3863)	16702 (	4874)	13535 (	3950)	10926 (	3189)
40	12752 (	3722)	15177 (	4429)	8990 (	2624)	7167 (	2092)
45	12427 (	3627)	13088 (	3820)	6951 (	2028)	7340 (	2142)
50	11917 (	3478)	11076 (	3232)	6804 (	1986)	8480 (	2475)
55	11385 (	3322)	8832 (	2577)	7343 (	2143)	8121 (	2370)
60	10686 (	3118)	6362 (	1856)	7906 (	2307)	7019 (	2048)
65	9851 (	2875)	5611 (	1637)	6505 (	1898)	8194 (	2391)
70	8855 (	2584)	6066 (	1770)	7451 (	2174)	9749 (	2845)
75	7535 (	2199)	5464 (	1594)	9107 (	2658)	9095 (	2654)
80	5585 (	1630)	5832 (	1702)	6863 (	2003)	5684 (	1659)
85	1901 (	554)	3013 (	879)	558 (	162)	0 (	0)

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	50	30	10	0
RCR																					
0	1.06	1.06	1.06	1.06	1.04	1.04	1.04	1.04	.99	.99	.99	.95	.95	.95	.91	.91	.91	.89	.89	.89	.89
1	.98	.95	.92	.89	.96	.93	.90	.87	.89	.87	.84	.86	.84	.82	.82	.81	.79	.78	.78	.78	.78
2	.91	.84	.79	.75	.89	.83	.78	.74	.79	.76	.72	.77	.73	.70	.74	.71	.69	.67	.67	.67	.67
3	.84	.75	.69	.64	.82	.74	.68	.64	.72	.67	.62	.69	.65	.61	.67	.63	.60	.59	.59	.59	.59
4	.77	.68	.61	.56	.76	.67	.60	.55	.65	.59	.54	.63	.58	.54	.61	.57	.53	.51	.51	.51	.51
5	.71	.61	.53	.48	.69	.60	.53	.48	.58	.52	.47	.56	.51	.47	.55	.50	.46	.45	.45	.45	.45
6	.66	.55	.48	.43	.64	.54	.47	.42	.53	.47	.42	.51	.46	.42	.50	.45	.41	.40	.40	.40	.40
7	.61	.50	.43	.38	.60	.49	.43	.38	.48	.42	.37	.47	.41	.37	.46	.41	.37	.35	.35	.35	.35
8	.57	.45	.38	.33	.56	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.33	.31	.31	.31	.31
9	.53	.41	.34	.29	.51	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.29	.27	.27	.27	.27
10	.49	.38	.31	.26	.48	.37	.31	.26	.36	.30	.26	.36	.30	.26	.35	.30	.26	.24	.24	.24	.24

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 176.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.