



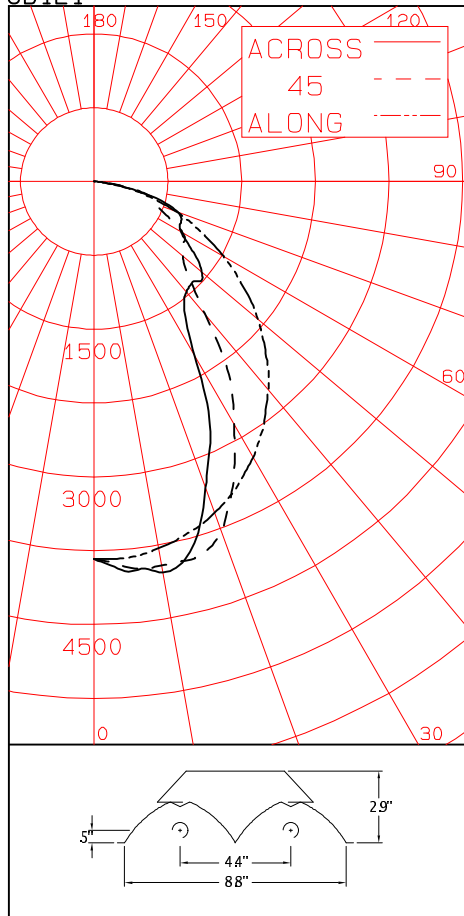
LIGHTING SCIENCES CANADA LTD.

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 B121
COMPUTED BY LSC PROGRAM **TEST-LITE**

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

CB121



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	3837	3837	3837	3837	3837	
5	3839	3874	3935	3953	3979	380
10	3783	3894	3961	4010	4033	
15	3695	3841	3960	3941	3851	1080
20	3581	3720	3787	3476	3316	
25	3429	3610	3357	2949	2805	1484
30	3236	3430	2847	2343	2038	
35	3012	3146	2398	1730	1602	1492
40	2759	2734	1749	1479	1462	
45	2470	2272	1357	1361	1435	1352
50	2174	1813	1176	1398	1428	
55	1841	1339	1094	1239	1217	1163
60	1521	886	1037	1013	1023	
65	1187	639	811	903	974	865
70	881	536	669	861	907	
75	560	398	612	650	651	576
80	273	257	369	307	295	
85	41	102	70	55	52	108
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2944	33.46	34.64
0-40	4436	50.42	52.20
0-60	6950	78.99	81.79
0-90	8498	96.58	100.00
40-90	4062	46.16	47.80
60-90	1547	17.59	18.21
90-180	0	.00	.00
0-180	8498	96.58	100.00

** EFFICIENCY = 96.6% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.0

SC (ALONG) = 1.2, SC (ACROSS) = 1.0

ANGLE	ALONG	45	ACROSS
45	13491	7441	7869
55	12399	7396	8225
65	10846	7442	8934
75	8355	9143	9746
85	1817	3118	2315

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.

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	3837	3837	3837	3837	3837	3837	380
2.5	3839	3844	3869	3885	3905	3868	
5.0	3839	3874	3935	3953	3979	3918	
7.5	3818	3885	3966	3967	3966	3927	
10.0	3783	3894	3961	4010	4033	3943	
12.5	3747	3879	3956	4015	3994	3930	1080
15.0	3695	3841	3960	3941	3851	3879	
17.5	3651	3785	3902	3735	3612	3763	
20.0	3581	3720	3787	3476	3316	3608	
22.5	3513	3674	3576	3189	3043	3429	
25.0	3429	3610	3357	2949	2805	3258	1484
27.5	3327	3526	3096	2682	2454	3049	
30.0	3236	3430	2847	2343	2038	2814	
32.5	3122	3297	2631	1982	1770	2589	
35.0	3012	3146	2398	1730	1602	2395	
37.5	2876	2943	2074	1547	1503	2188	1492
40.0	2759	2734	1749	1479	1462	2018	
42.5	2625	2497	1522	1404	1439	1863	
45.0	2470	2272	1357	1361	1435	1736	
47.5	2324	2038	1244	1368	1485	1638	
50.0	2174	1813	1176	1398	1428	1547	1352
52.5	2020	1606	1118	1368	1341	1443	
55.0	1841	1339	1094	1239	1217	1300	
57.5	1689	1070	1096	1120	1098	1170	
60.0	1521	886	1037	1013	1023	1052	
62.5	1355	741	929	935	981	943	865
65.0	1187	639	811	903	974	858	
67.5	1041	589	727	886	960	801	
70.0	881	536	669	861	907	740	
72.5	709	481	643	781	795	664	
75.0	560	398	612	650	651	566	576
77.5	424	313	494	484	464	434	
80.0	273	257	369	307	295	304	
82.5	138	211	188	138	126	167	
85.0	41	102	70	55	52	68	
87.5	0	12	18	5	0	9	108
90.0	0	0	0	0	0	0	

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 TWO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4400 LMS.
 ONE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ICN-2S54-90C

AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	14822 (4326)	14822 (4326)	14822 (4326)	14822 (4326)	14822 (4326)		
30	14434 (4212)	15342 (4477)	12733 (3716)	10474 (3057)	9091 (2653)		
40	13910 (4060)	13819 (4033)	8825 (2575)	7477 (2182)	7371 (2151)		
45	13491 (3937)	12428 (3627)	7441 (2171)	7454 (2175)	7869 (2296)		
50	13066 (3813)	10937 (3192)	7068 (2063)	8424 (2458)	8583 (2505)		
55	12399 (3619)	9033 (2636)	7396 (2158)	8367 (2442)	8225 (2400)		
60	11748 (3428)	6864 (2003)	8015 (2339)	7848 (2290)	7901 (2306)		
65	10846 (3165)	5843 (1705)	7442 (2172)	8275 (2415)	8934 (2607)		
70	9952 (2904)	6073 (1772)	7573 (2210)	9745 (2844)	10241 (2989)		
75	8355 (2438)	5965 (1741)	9143 (2668)	9730 (2840)	9746 (2844)		
80	6069 (1771)	5731 (1672)	8249 (2407)	6833 (1994)	6569 (1917)		
85	1817 (530)	4541 (1325)	3118 (910)	2437 (711)	2315 (675)		

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	1.15	1.15	1.15	1.15	1.12	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	.99	.99	.99	.99	.99	.99	.97
1	1.06	1.02	.99	.96	1.04	1.00	.97	.94	.96	.94	.91	.92	.90	.88	.89	.87	.86	.89	.87	.86	.84
2	.98	.91	.85	.80	.96	.89	.84	.79	.86	.81	.77	.83	.79	.76	.80	.77	.74	.80	.77	.74	.72
3	.90	.81	.74	.69	.88	.80	.73	.68	.77	.71	.67	.74	.70	.66	.72	.68	.65	.72	.68	.65	.63
4	.83	.73	.65	.59	.81	.72	.65	.59	.69	.63	.58	.67	.62	.57	.65	.61	.57	.65	.61	.57	.55
5	.77	.65	.57	.51	.75	.64	.56	.51	.62	.55	.50	.60	.54	.50	.59	.54	.49	.59	.54	.49	.47
6	.71	.59	.51	.45	.69	.58	.50	.45	.56	.50	.45	.55	.49	.44	.53	.48	.44	.53	.48	.44	.42
7	.66	.54	.46	.40	.64	.53	.45	.40	.51	.44	.40	.50	.44	.39	.49	.43	.39	.49	.43	.39	.37
8	.61	.49	.41	.35	.60	.48	.40	.35	.47	.40	.35	.46	.39	.35	.44	.39	.35	.44	.39	.35	.33
9	.57	.44	.36	.31	.55	.44	.36	.31	.42	.36	.31	.41	.35	.31	.40	.35	.30	.40	.35	.30	.29
10	.53	.40	.33	.28	.52	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.31	.27	.37	.31	.27	.26

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 122.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.