



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

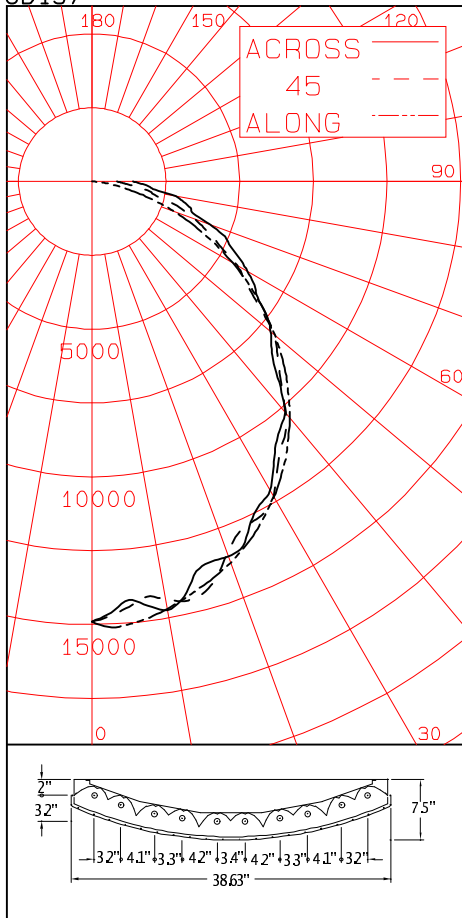
CERTIFIED TEST REPORT NO. LSC D197
 COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING 4' FLUORESCENT LUMINAIRE CAT. NO. CL-GYM-T5HO-10-G
 WITH MIRO IV SPECULAR WIDE DISTRIBUTION REFLECTOR AND WHITE PAINTED WIREGUARD
 TEN 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
 FIVE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. ICN-2S54-90C

CANDLEPOWER SUMMARY

OUTPUT
LUMENS

CD197



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	14900	14900	14900	14900	14900	
5	15033	14801	14448	14255	14218	1410
10	14689	14305	14361	14703	14734	
15	14222	13771	14458	13902	13670	3956
20	13737	13698	13401	13381	13518	
25	13106	13258	12746	12970	12721	5961
30	12341	12410	12300	12071	12085	
35	11450	11172	11112	11030	10872	6976
40	10438	10138	10213	10104	10188	
45	9311	9316	8966	8982	8728	6993
50	8081	8028	8054	7785	7903	
55	6810	6819	6611	6889	6854	6088
60	5505	5505	5670	5982	6077	
65	4181	4315	4549	4996	5172	4619
70	2946	3127	3704	4252	4252	
75	1788	2124	2796	3184	3458	2861
80	861	1296	1992	2664	2874	
85	238	650	1225	1724	1940	1345
90	1	221	787	1225	1374	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	11326	25.45	28.17
0-40	18302	41.13	45.52
0-60	31383	70.52	78.05
0-90	40208	90.36	100.00
40-90	21905	49.23	54.48
60-90	8824	19.83	21.95
90-180	0	.00	.00
0-180	40208	90.36	100.00

** EFFICIENCY = 90.4% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2
 SC = 1.2

ANGLE	ALONG	45	ACROSS
45	11189	10102	9572
55	10089	8929	8919
65	8406	7970	8596
75	5869	7271	8298
85	2320	6621	8859

CERTIFIED BY:

Charles Sisson

DATE:
 APR 11, 2008

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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 FIVE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. ICN-2S54-90C

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	14900	14900	14900	14900	14900	14900	
2.5	15105	14908	14712	14643	14612	14780	
5.0	15033	14801	14448	14255	14218	14532	1410
7.5	14895	14586	14177	14417	14483	14467	
10.0	14689	14305	14361	14703	14734	14520	
12.5	14461	13977	14548	14583	14402	14385	
15.0	14222	13771	14458	13902	13670	14019	3956
17.5	13999	13726	14058	13427	13483	13738	
20.0	13737	13698	13401	13381	13518	13527	
22.5	13436	13514	12914	13364	13364	13298	
25.0	13106	13258	12746	12970	12721	12972	5961
27.5	12712	12900	12646	12361	12328	12607	
30.0	12341	12410	12300	12071	12085	12248	
32.5	11899	11775	11665	11661	11444	11693	
35.0	11450	11172	11112	11030	10872	11119	6976
37.5	10933	10584	10765	10462	10494	10631	
40.0	10438	10138	10213	10104	10188	10192	
42.5	9866	9747	9525	9712	9460	9662	
45.0	9311	9316	8966	8982	8728	9071	6993
47.5	8713	8732	8520	8256	8245	8497	
50.0	8081	8028	8054	7785	7903	7965	
52.5	7458	7372	7319	7463	7476	7405	
55.0	6810	6819	6611	6889	6854	6788	6088
57.5	6166	6191	6110	6279	6532	6232	
60.0	5505	5505	5670	5982	6077	5737	
62.5	4855	4898	5017	5545	5648	5178	
65.0	4181	4315	4549	4996	5172	4634	4619
67.5	3555	3745	4092	4664	4874	4179	
70.0	2946	3127	3704	4252	4252	3671	
72.5	2343	2621	3271	3536	3598	3099	
75.0	1788	2124	2796	3184	3458	2682	2861
77.5	1278	1669	2233	2924	3177	2263	
80.0	861	1296	1992	2664	2874	1955	
82.5	516	901	1715	2035	2156	1497	
85.0	238	650	1225	1724	1940	1172	1345
87.5	12	390	1024	1483	1660	933	
90.0	1	221	787	1225	1374	730	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	12662 (3695)	12662 (3695)	12662 (3695)	12662 (3695)	12662 (3695)
30	12109 (3534)	11947 (3486)	11625 (3393)	11271 (3289)	11210 (3272)
40	11578 (3379)	10925 (3188)	10704 (3124)	10429 (3044)	10427 (3043)
45	11189 (3265)	10796 (3151)	10102 (2948)	9910 (2892)	9572 (2793)
50	10682 (3117)	10189 (2973)	9821 (2866)	9296 (2713)	9335 (2724)
55	10089 (2944)	9596 (2800)	8929 (2606)	9044 (2639)	8919 (2603)
60	9355 (2730)	8804 (2569)	8593 (2508)	8786 (2564)	8803 (2569)
65	8406 (2453)	8025 (2342)	7970 (2326)	8410 (2454)	8596 (2508)
70	7318 (2136)	7056 (2059)	7729 (2255)	8443 (2464)	8287 (2418)
75	5869 (1713)	6126 (1787)	7271 (2122)	7800 (2276)	8298 (2422)
80	4214 (1230)	5232 (1527)	6985 (2038)	8566 (2500)	8974 (2619)
85	2320 (677)	4424 (1291)	6621 (1932)	8204 (2394)	8859 (2585)

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	1.08	1.08	1.08	1.08	1.05	1.05	1.05	1.05	1.00	1.00	1.00	1.00	1.00	1.00	.96	.96	.96	.96	.92	.92	.92	.90
1	.99	.94	.91	.87	.96	.92	.89	.86	.88	.86	.83	.85	.83	.80	.82	.80	.78	.82	.80	.78	.76	
2	.90	.83	.77	.72	.88	.81	.76	.71	.78	.73	.69	.75	.71	.68	.72	.69	.66	.72	.69	.66	.64	
3	.83	.73	.66	.61	.80	.72	.66	.60	.70	.64	.59	.67	.62	.58	.65	.61	.57	.65	.61	.57	.55	
4	.76	.65	.58	.52	.74	.64	.57	.52	.62	.56	.51	.60	.55	.50	.58	.53	.50	.58	.53	.50	.48	
5	.70	.58	.50	.44	.67	.57	.49	.44	.55	.48	.44	.53	.47	.43	.52	.47	.42	.52	.47	.42	.41	
6	.64	.52	.44	.39	.62	.51	.44	.38	.50	.43	.38	.48	.42	.38	.47	.41	.37	.47	.41	.37	.35	
7	.59	.47	.39	.34	.58	.46	.39	.33	.45	.38	.33	.43	.37	.33	.42	.37	.33	.42	.37	.33	.31	
8	.54	.42	.35	.29	.53	.41	.34	.29	.40	.34	.29	.39	.33	.29	.38	.33	.28	.38	.33	.28	.27	
9	.50	.38	.30	.25	.49	.37	.30	.25	.36	.30	.25	.35	.29	.25	.34	.29	.25	.34	.29	.25	.23	
10	.47	.35	.27	.22	.46	.34	.27	.22	.33	.27	.22	.32	.26	.22	.32	.26	.22	.32	.26	.22	.20	

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 594.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.