

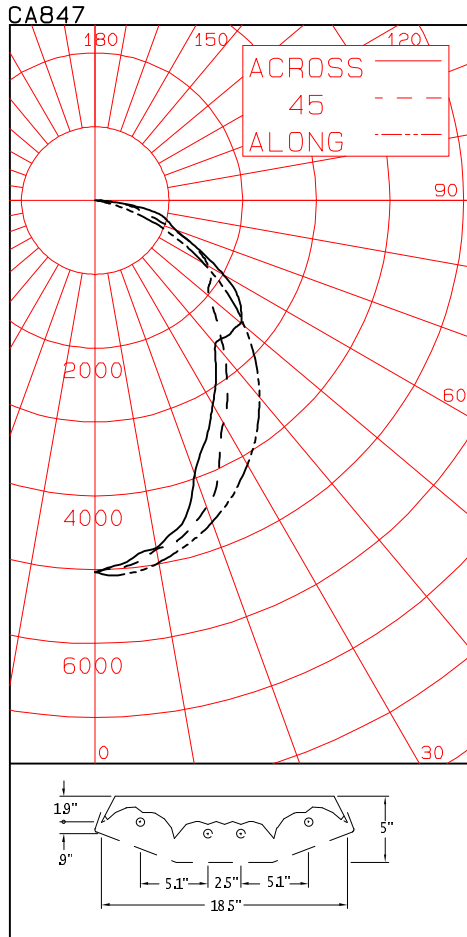


LIGHTING SCIENCES CANADA LTD.

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 A847
 COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING SURFACE MOUNT FIXTURE CAT. NO. CL-GYM-T5HO-4L-L
 WITH SPECULAR REFLECTOR AND CLEAR LENS
 FOUR 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



CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	5031	5031	5031	5031	5031	
0	5031	5031	5031	5031	5031						
5	5074	5039	4970	4909	4911	478					
10	4981	4945	4797	4792	4775						
15	4824	4716	4683	4569	4537	1303					
20	4635	4524	4413	4068	3949						
25	4414	4338	3976	3614	3565	1825					
30	4136	4035	3479	3278	3193						
35	3825	3688	3138	2912	2861	2039					
40	3470	3274	2745	2588	2536						
45	3078	2715	2350	2421	2574	1997					
50	2639	2322	2020	2414	2578						
55	2189	1861	1910	2296	2390	1855					
60	1707	1418	1781	2018	2018						
65	1223	1071	1511	1540	1527	1362					
70	786	820	1098	1135	1158						
75	398	590	722	905	1002	780					
80	130	332	555	711	749						
85	6	114	252	308	286	248					
90	0	0	19	55	55						

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3605	20.49	30.33
0-40	5644	32.07	47.49
0-60	9496	53.95	79.89
0-90	11886	67.54	100.00
40-90	6241	35.46	52.51
60-90	2390	13.58	20.11
90-180	0	.00	.00
0-180	11886	67.54	100.00

** EFFICIENCY = 67.5% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	7597	5567	5989
55	6661	5476	6681
65	5050	5703	5557
75	2685	4160	5461
85	124	3314	3303

S/MH = 1.0
 SC(ALONG) = 1.2, SC(ACROSS) = 1.0

CERTIFIED BY:
Charles Sisson DATE: AUG 25, 2005
 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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CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	5031	5031	5031	5031	5031	5031	
2.5	5084	5047	4993	4971	4970	5009	
5.0	5074	5039	4970	4909	4911	4978	478
7.5	5044	5038	4912	4788	4806	4916	
10.0	4981	4945	4797	4792	4775	4853	
12.5	4903	4846	4772	4666	4645	4765	
15.0	4824	4716	4683	4569	4537	4662	1303
17.5	4742	4601	4557	4417	4294	4523	
20.0	4635	4524	4413	4068	3949	4324	
22.5	4529	4453	4259	3807	3720	4161	
25.0	4414	4338	3976	3614	3565	3979	1825
27.5	4273	4167	3682	3447	3373	3780	
30.0	4136	4035	3479	3278	3193	3614	
32.5	3984	3863	3326	3123	3034	3455	
35.0	3825	3688	3138	2912	2861	3270	2039
37.5	3645	3515	2925	2728	2679	3082	
40.0	3470	3274	2745	2588	2536	2903	
42.5	3277	2962	2531	2425	2536	2706	
45.0	3078	2715	2350	2421	2574	2578	1997
47.5	2867	2504	2177	2417	2566	2453	
50.0	2639	2322	2020	2414	2578	2341	
52.5	2422	2076	1939	2372	2500	2212	
55.0	2189	1861	1910	2296	2390	2089	1855
57.5	1952	1649	1850	2191	2249	1948	
60.0	1707	1418	1781	2018	2018	1770	
62.5	1474	1238	1655	1784	1762	1574	
65.0	1223	1071	1511	1540	1527	1374	1362
67.5	1018	928	1316	1321	1317	1183	
70.0	786	820	1098	1135	1158	1006	
72.5	577	700	904	1002	1070	857	
75.0	398	590	722	905	1002	729	780
77.5	242	435	624	833	913	617	
80.0	130	332	555	711	749	509	
82.5	44	195	423	504	525	352	
85.0	6	114	252	308	286	205	248
87.5	0	55	96	131	137	88	
90.0	0	0	19	55	55	26	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	8782 (2563)	8782 (2563)	8782 (2563)	8782 (2563)	8782 (2563)
30	8335 (2432)	8040 (2346)	6849 (1999)	6401 (1868)	6203 (1810)
40	7906 (2307)	7327 (2138)	6028 (1759)	5629 (1643)	5480 (1599)
45	7597 (2217)	6548 (1911)	5567 (1624)	5654 (1650)	5989 (1748)
50	7167 (2091)	6147 (1794)	5202 (1518)	6135 (1790)	6499 (1896)
55	6661 (1944)	5479 (1599)	5476 (1598)	6454 (1883)	6681 (1950)
60	5960 (1739)	4761 (1389)	5766 (1683)	6400 (1867)	6334 (1848)
65	5050 (1474)	4203 (1226)	5703 (1664)	5654 (1650)	5557 (1622)
70	4012 (1171)	3929 (1147)	4989 (1456)	4982 (1454)	5017 (1464)
75	2685 (783)	3654 (1066)	4160 (1214)	5006 (1461)	5461 (1593)
80	1309 (382)	2933 (856)	4442 (1296)	5342 (1559)	5506 (1607)
85	124 (36)	1789 (522)	3314 (967)	3673 (1072)	3303 (964)

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	.80	.80	.80	.80	.79	.79	.79	.79	.75	.75	.75	.72	.72	.72	.69	.69	.69	.68				
1	.74	.71	.68	.66	.72	.70	.67	.65	.67	.65	.63	.64	.62	.61	.62	.60	.59	.58				
2	.68	.63	.59	.55	.66	.61	.58	.54	.59	.56	.53	.57	.54	.52	.55	.53	.51	.49				
3	.62	.56	.51	.47	.61	.55	.50	.46	.53	.49	.45	.51	.48	.45	.49	.46	.44	.42				
4	.57	.50	.44	.40	.56	.49	.44	.40	.47	.43	.39	.46	.42	.39	.44	.41	.38	.37				
5	.53	.44	.38	.34	.51	.43	.38	.34	.42	.37	.34	.41	.36	.33	.40	.36	.33	.31				
6	.49	.40	.34	.30	.47	.39	.34	.30	.38	.33	.29	.37	.32	.29	.36	.32	.29	.27				
7	.45	.36	.30	.26	.44	.35	.30	.26	.34	.29	.26	.33	.29	.26	.33	.28	.25	.24				
8	.41	.32	.27	.23	.40	.32	.26	.23	.31	.26	.23	.30	.26	.22	.29	.25	.22	.21				
9	.38	.29	.24	.20	.37	.29	.24	.20	.28	.23	.20	.27	.23	.20	.27	.22	.19	.18				
10	.36	.27	.21	.18	.35	.26	.21	.18	.26	.21	.18	.25	.20	.17	.24	.20	.17	.16				

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 212.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.