

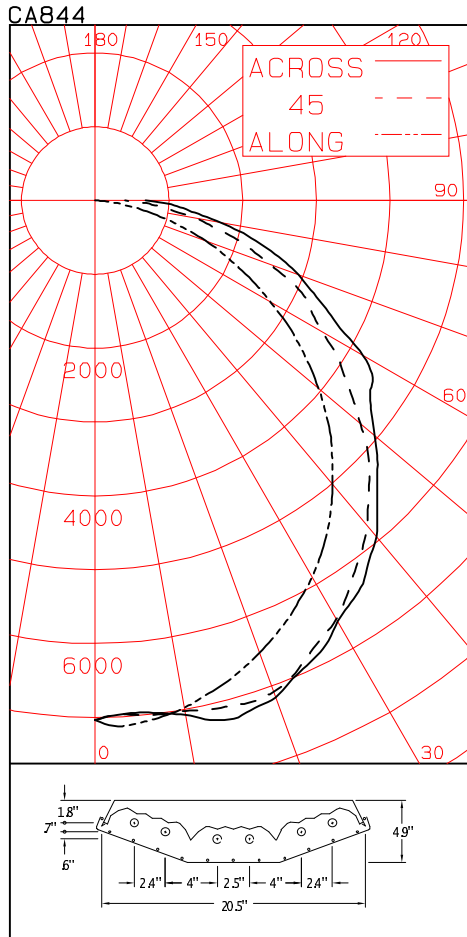


LIGHTING SCIENCES CANADA LTD.

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 A844
 COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING SURFACE MOUNT FIXTURE CAT. NO. CL-GYM-T5HO-6L-W
 WITH SPECULAR REFLECTOR AND WIREGUARD
 SIX 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
 ONE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ICN-2S54-90C



CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	7036	7036	7036	7036	7036	
5	7099	7073	6997	6965	6963	680
10	6975	7001	7019	7081	7073	
15	6771	6828	7090	7273	7267	1986
20	6518	6666	7081	7147	7161	
25	6229	6485	6812	6908	6902	3084
30	5889	6286	6547	6622	6584	
35	5491	5990	6138	6286	6335	3792
40	5012	5467	5739	5919	5943	
45	4525	4995	5268	5407	5411	3972
50	3954	4425	4704	4896	4953	
55	3366	3877	4126	4379	4555	3665
60	2749	3229	3558	4107	4206	
65	2147	2599	3171	3334	3457	2957
70	1594	2027	2518	2805	2933	
75	1021	1494	1950	2273	2364	1937
80	545	890	1386	1664	1733	
85	160	457	862	1110	1201	861
90	0	112	403	624	687	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	5750	21.78	25.07
0-40	9542	36.15	41.61
0-60	17179	65.07	74.91
0-90	22933	86.87	100.00
40-90	13390	50.72	58.39
60-90	5754	21.80	25.09
90-180	0	.00	.00
0-180	22933	86.87	100.00

** EFFICIENCY = 86.9% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	10080	11237	11326
55	9244	10640	11441
65	8003	10749	11281
75	6214	10067	11509
85	2893	10064	12237

S/MH = 1.4
 SC (ALONG) = 1.2, SC (ACROSS) = 1.4

CERTIFIED BY:
Charles Sisson DATE: AUG 24, 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	7036	7036	7036	7036	7036	7036	
2.5	7127	7057	6971	6967	6972	7011	
5.0	7099	7073	6997	6965	6963	7017	680
7.5	7049	7043	7017	6978	7006	7016	
10.0	6975	7001	7019	7081	7073	7031	
12.5	6869	6916	7065	7159	7205	7044	
15.0	6771	6828	7090	7273	7267	7052	1986
17.5	6651	6759	7118	7239	7206	7011	
20.0	6518	6666	7081	7147	7161	6933	
22.5	6379	6580	6984	7053	7010	6828	
25.0	6229	6485	6812	6908	6902	6693	3084
27.5	6056	6371	6672	6759	6785	6556	
30.0	5889	6286	6547	6622	6584	6422	
32.5	5697	6149	6353	6445	6455	6256	
35.0	5491	5990	6138	6286	6335	6082	3792
37.5	5258	5747	5954	6107	6114	5873	
40.0	5012	5467	5739	5919	5943	5651	
42.5	4760	5215	5486	5717	5664	5407	
45.0	4525	4995	5268	5407	5411	5160	3972
47.5	4241	4743	5020	5122	5198	4901	
50.0	3954	4425	4704	4896	4953	4620	
52.5	3658	4151	4406	4621	4730	4343	
55.0	3366	3877	4126	4379	4555	4086	3665
57.5	3076	3566	3889	4245	4466	3868	
60.0	2749	3229	3558	4107	4206	3593	
62.5	2455	2948	3328	3783	3748	3290	
65.0	2147	2599	3171	3334	3457	2977	2957
67.5	1869	2302	2880	3102	3165	2700	
70.0	1594	2027	2518	2805	2933	2403	
72.5	1295	1720	2226	2533	2661	2114	
75.0	1021	1494	1950	2273	2364	1852	1937
77.5	761	1190	1642	1949	2056	1547	
80.0	545	890	1386	1664	1733	1270	
82.5	341	677	1084	1325	1414	991	
85.0	160	457	862	1110	1201	777	861
87.5	17	272	647	885	978	575	
90.0	0	112	403	624	687	371	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)				ACROSS
		22.5	45	67.5		
0	11083(3234)	11083(3234)	11083(3234)	11083(3234)	11083(3234)	
30	10711(3126)	11294(3296)	11614(3389)	11648(3399)	11520(3362)	
40	10306(3008)	11030(3219)	11352(3313)	11590(3382)	11558(3373)	
45	10080(2942)	10857(3168)	11237(3279)	11363(3316)	11326(3305)	
50	9690(2828)	10556(3081)	10901(3181)	11190(3266)	11225(3276)	
55	9244(2698)	10282(3001)	10640(3105)	11064(3229)	11441(3339)	
60	8659(2527)	9765(2850)	10355(3022)	11693(3413)	11848(3458)	
65	8003(2335)	9179(2679)	10749(3137)	10982(3205)	11281(3292)	
70	7339(2142)	8741(2551)	10267(2996)	11033(3220)	11372(3319)	
75	6214(1813)	8317(2427)	10067(2938)	11235(3279)	11509(3359)	
80	4945(1443)	7061(2060)	9904(2890)	11133(3249)	11332(3307)	
85	2893(844)	6385(1863)	10064(2937)	11697(3414)	12237(3571)	

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	1.031	.031	.031	.031	1.011	.011	.011	.011	.011	.97	.97	.97	.92	.92	.92	.89	.89	.89	.87		
1	.94	.90	.86	.83	.92	.88	.85	.81	.84	.81	.79	.81	.79	.76	.78	.76	.74	.72			
2	.86	.79	.73	.67	.84	.77	.71	.67	.74	.69	.65	.71	.67	.64	.68	.65	.62	.60			
3	.78	.69	.62	.56	.76	.68	.61	.56	.65	.60	.55	.63	.58	.54	.61	.57	.53	.51			
4	.72	.61	.54	.48	.70	.60	.53	.47	.58	.52	.47	.56	.51	.46	.54	.49	.46	.44			
5	.65	.54	.46	.40	.63	.53	.45	.40	.51	.44	.40	.49	.44	.39	.48	.43	.39	.37			
6	.60	.48	.40	.35	.58	.47	.40	.34	.46	.39	.34	.44	.38	.34	.43	.38	.33	.32			
7	.55	.43	.36	.30	.54	.43	.35	.30	.41	.34	.30	.40	.34	.29	.39	.33	.29	.27			
8	.51	.39	.31	.26	.50	.38	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.24			
9	.47	.35	.27	.22	.46	.34	.27	.22	.33	.27	.22	.32	.26	.22	.31	.26	.22	.20			
10	.43	.32	.24	.20	.42	.31	.24	.20	.30	.24	.20	.29	.23	.19	.29	.23	.19	.18			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 358.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.