

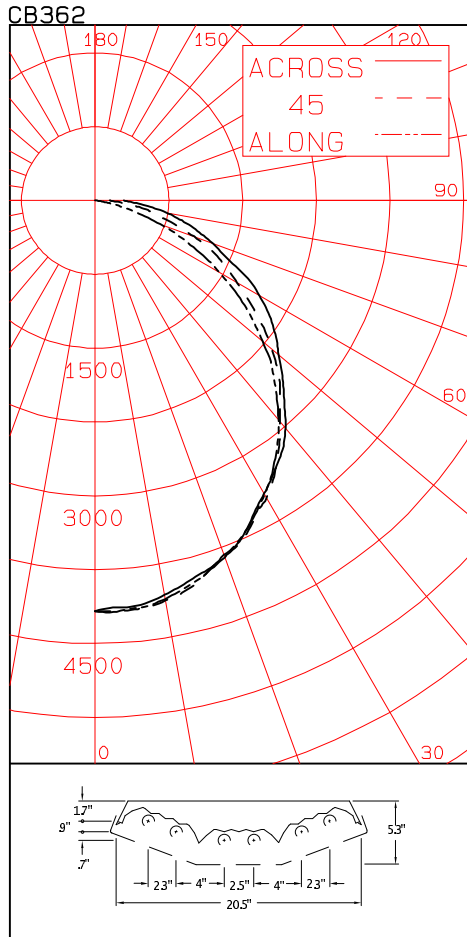


# LIGHTING SCIENCES CANADA LTD.

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 B362  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

CUSTOM LIGHTING SURFACE MOUNT FIXTURE CAT. NO. CL-GYM-T8-6-G-LX  
 WITH SPECULAR REFLECTOR AND LEXAN CLEAR LENS  
 SIX F32T8/TL841 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.  
 THREE ADVANCE 120V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. REL-2P32-HL-SC



### CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	4172	4172	4172	4172	4172	
5	4160	4178	4174	4149	4144	402
10	4108	4145	4125	4083	4069	
15	3998	4056	4017	3951	3954	1127
20	3855	3883	3849	3842	3834	
25	3671	3688	3696	3699	3667	1692
30	3448	3462	3490	3442	3440	
35	3194	3192	3231	3221	3246	2010
40	2901	2924	2929	3013	3014	
45	2580	2608	2662	2711	2711	2044
50	2220	2284	2345	2396	2440	
55	1857	1890	1997	2130	2206	1800
60	1468	1544	1669	1867	1929	
65	1070	1183	1388	1550	1578	1345
70	706	840	1071	1190	1273	
75	373	544	745	929	1011	775
80	130	290	525	681	760	
85	0	107	301	435	491	309
90	0	23	147	239	292	

### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	3220	18.19	27.99
0-40	5230	29.55	45.47
0-60	9074	51.27	78.88
0-90	11504	65.00	100.00
40-90	6273	35.45	54.53
60-90	2429	13.73	21.12
90-180	0	.00	.00
0-180	11504	65.00	100.00

\*\* EFFICIENCY = 65.0% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2  
 SC = 1.2

ANGLE	ALONG	45	ACROSS
45	5747	5604	5571
55	5100	5055	5403
65	3986	4582	4967
75	2270	3685	4653
85	0	3187	4447

CERTIFIED BY:

*Charles Sisson*

DATE:  
 SEP 19, 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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CANDLEPOWER DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	4172	4172	4172	4172	4172	4172	
2.5	4184	4192	4174	4147	4137	4168	
5.0	4160	4178	4174	4149	4144	4163	402
7.5	4152	4164	4162	4131	4119	4148	
10.0	4108	4145	4125	4083	4069	4110	
12.5	4054	4114	4084	4035	4013	4066	
15.0	3998	4056	4017	3951	3954	4000	1127
17.5	3925	3972	3919	3927	3913	3934	
20.0	3855	3883	3849	3842	3834	3855	
22.5	3764	3796	3790	3777	3778	3783	
25.0	3671	3688	3696	3699	3667	3688	1692
27.5	3558	3581	3573	3569	3537	3568	
30.0	3448	3462	3490	3442	3440	3460	
32.5	3332	3328	3369	3334	3343	3342	
35.0	3194	3192	3231	3221	3246	3216	2010
37.5	3058	3079	3082	3117	3149	3095	
40.0	2901	2924	2929	3013	3014	2956	
42.5	2739	2757	2786	2874	2856	2803	
45.0	2580	2608	2662	2711	2711	2656	2044
47.5	2424	2447	2514	2542	2579	2501	
50.0	2220	2284	2345	2396	2440	2339	
52.5	2036	2094	2183	2258	2329	2179	
55.0	1857	1890	1997	2130	2206	2012	1800
57.5	1657	1736	1828	1999	2077	1857	
60.0	1468	1544	1669	1867	1929	1695	
62.5	1275	1360	1534	1719	1780	1535	
65.0	1070	1183	1388	1550	1578	1361	1345
67.5	892	1019	1251	1353	1405	1193	
70.0	706	840	1071	1190	1273	1023	
72.5	535	664	901	1062	1132	865	
75.0	373	544	745	929	1011	727	775
77.5	242	410	616	806	878	598	
80.0	130	290	525	681	760	485	
82.5	54	185	403	540	613	366	
85.0	0	107	301	435	491	272	309
87.5	0	45	196	315	375	186	
90.0	0	23	147	239	292	139	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	6571 ( 1917)	6571 ( 1917)	6571 ( 1917)	6571 ( 1917)	6571 ( 1917)
30	6272 ( 1830)	6195 ( 1808)	6144 ( 1793)	5994 ( 1749)	5954 ( 1738)
40	5965 ( 1741)	5863 ( 1711)	5730 ( 1672)	5815 ( 1697)	5772 ( 1684)
45	5747 ( 1677)	5627 ( 1642)	5604 ( 1635)	5601 ( 1634)	5571 ( 1626)
50	5441 ( 1588)	5403 ( 1576)	5352 ( 1562)	5369 ( 1567)	5414 ( 1580)
55	5100 ( 1488)	4962 ( 1448)	5055 ( 1475)	5257 ( 1534)	5403 ( 1576)
60	4623 ( 1349)	4611 ( 1345)	4753 ( 1387)	5170 ( 1509)	5275 ( 1539)
65	3986 ( 1163)	4117 ( 1201)	4582 ( 1337)	4937 ( 1441)	4967 ( 1449)
70	3251 ( 948)	3554 ( 1037)	4226 ( 1233)	4489 ( 1310)	4723 ( 1378)
75	2270 ( 662)	2954 ( 862)	3685 ( 1075)	4353 ( 1270)	4653 ( 1358)
80	1178 ( 343)	2218 ( 647)	3534 ( 1031)	4236 ( 1236)	4605 ( 1344)
85	0 ( 0)	1399 ( 408)	3187 ( 930)	4092 ( 1194)	4447 ( 1298)

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	.77	.77	.77	.77	.76	.76	.76	.76	.72	.72	.72	.69	.69	.69	.66	.66	.66	.66	.66	.66	.65
1	.71	.68	.65	.63	.69	.67	.64	.62	.64	.62	.60	.61	.60	.58	.59	.58	.56	.56	.56	.56	.55
2	.65	.60	.56	.52	.63	.59	.55	.52	.56	.53	.50	.54	.52	.49	.52	.50	.48	.48	.48	.48	.47
3	.60	.53	.48	.44	.58	.52	.47	.44	.50	.46	.43	.48	.45	.42	.47	.44	.41	.41	.41	.41	.40
4	.55	.47	.42	.38	.53	.46	.41	.37	.45	.40	.37	.43	.40	.36	.42	.39	.36	.36	.36	.36	.35
5	.50	.42	.36	.32	.49	.41	.36	.32	.40	.35	.31	.39	.34	.31	.37	.34	.31	.31	.31	.31	.29
6	.46	.38	.32	.28	.45	.37	.32	.28	.36	.31	.27	.35	.30	.27	.34	.30	.27	.27	.27	.27	.26
7	.42	.34	.28	.24	.42	.33	.28	.24	.32	.27	.24	.31	.27	.24	.31	.27	.24	.24	.24	.24	.22
8	.39	.30	.25	.21	.38	.30	.25	.21	.29	.24	.21	.28	.24	.21	.27	.23	.20	.20	.20	.20	.19
9	.36	.27	.22	.18	.35	.27	.22	.18	.26	.21	.18	.25	.21	.18	.25	.21	.18	.18	.18	.18	.17
10	.33	.25	.20	.16	.33	.24	.20	.16	.24	.19	.16	.23	.19	.16	.23	.19	.16	.16	.16	.16	.15

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 196.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.