



# LIGHTING SCIENCES CANADA LTD.

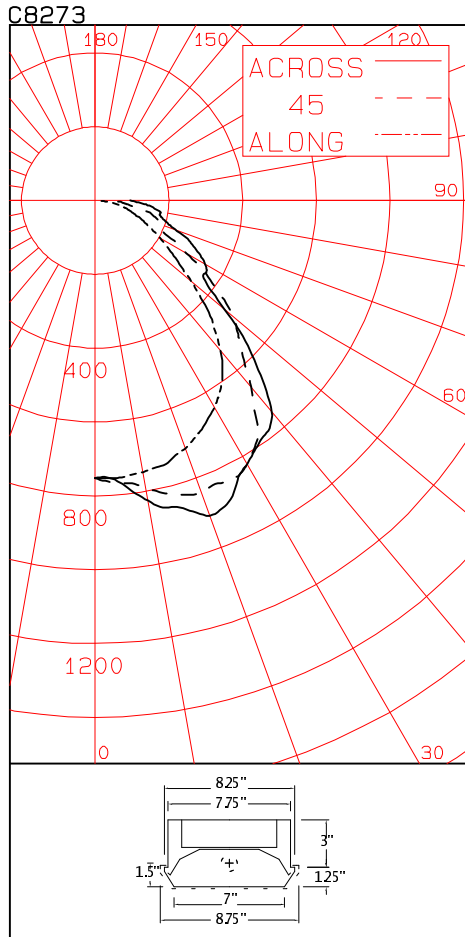
440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9  
 Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC8273  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

CUSTOM INDOOR FLUOR. WRAP LUMINAIRE CAT. NO. LS-DWRAP-PSW-M-141-OI-2-K2-2-1  
 WITH SEGMENTED SPECULAR REFLECTOR AND DROP WRAPAROUND PRISMATIC K-12 LENS  
 ONE SYLVANIA 32W T8 4100K FLUORESCENT LAMP. LUMEN RATING = 2950 LMS.  
 SYLVANIA QUICKTRONIC 120V 2-LAMP ELECTRONIC BALLAST NO. QT 2X32/120 IS

### CANDLEPOWER SUMMARY

OUTPUT  
LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	753	753	753	753	753	
5	754	756	768	770	767	75
10	747	755	790	822	826	
15	740	765	825	856	860	230
20	714	761	842	887	908	
25	684	752	841	893	884	374
30	647	731	825	818	824	
35	600	683	772	778	788	452
40	530	605	658	719	746	
45	443	516	558	625	610	427
50	341	415	491	504	458	
55	260	322	388	364	358	315
60	205	242	287	311	345	
65	154	176	203	283	294	225
70	118	135	188	239	230	
75	91	110	165	166	190	157
80	64	86	119	147	180	
85	24	46	78	129	143	90
90	1	20	52	86	95	

### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	678	23.01	28.94
0-40	1131	38.34	48.23
0-60	1873	63.50	79.87
0-90	2345	79.50	100.00
40-90	1214	41.16	51.77
60-90	471	16.00	20.13
90-180	0	.00	.00
0-180	2345	79.50	100.00

\*\* EFFICIENCY = 79.5% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.6

SC (ALONG) = 1.3, SC (ACROSS) = 1.6

ANGLE	ALONG	45	ACROSS
45	2378	2779	2941
55	1722	2307	2037
65	1383	1554	2118
75	1332	1854	1941
85	1045	1736	2664

CERTIFIED BY:

*Charles Sisson*

DATE:  
JUN 19, 2000

PREPARED FOR:

CUSTOM LIGHTING  
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	753	753	753	753	753	753	
2.5	753	750	761	753	751	754	
5.0	754	756	768	770	767	764	75
7.5	749	753	773	791	796	772	
10.0	747	755	790	822	826	789	
12.5	742	764	808	849	852	804	
15.0	740	765	825	856	860	812	230
17.5	723	765	836	870	883	819	
20.0	714	761	842	887	908	825	
22.5	699	761	835	896	903	823	
25.0	684	752	841	893	884	817	374
27.5	665	743	841	864	843	801	
30.0	647	731	825	818	824	777	
32.5	625	709	800	789	804	753	
35.0	600	683	772	778	788	732	452
37.5	567	645	708	746	777	693	
40.0	530	605	658	719	746	655	
42.5	483	558	602	683	680	606	
45.0	443	516	558	625	610	556	427
47.5	388	465	523	562	543	504	
50.0	341	415	491	504	458	452	
52.5	295	365	441	429	392	395	
55.0	260	322	388	364	358	346	315
57.5	228	278	343	325	359	310	
60.0	205	242	287	311	345	279	
62.5	178	207	250	298	321	251	
65.0	154	176	203	283	294	222	225
67.5	139	156	190	268	272	205	
70.0	118	135	188	239	230	184	
72.5	103	125	179	207	206	166	
75.0	91	110	165	166	190	145	157
77.5	78	97	152	153	180	133	
80.0	64	86	119	147	180	119	
82.5	39	61	92	142	162	99	
85.0	24	46	78	129	143	84	90
87.5	6	27	63	102	118	64	
90.0	1	20	52	86	95	51	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M.		(FOOTLAMBERTS)		ACROSS
		22.5	45	67.5		
0	2858 ( 834)	2858 ( 834)	2858 ( 834)	2858 ( 834)	2858 ( 834)	2858 ( 834)
30	2838 ( 828)	3134 ( 914)	3462 ( 1010)	3385 ( 988)	3383 ( 987)	3383 ( 987)
40	2630 ( 767)	2898 ( 846)	3052 ( 890)	3276 ( 956)	3368 ( 983)	3368 ( 983)
45	2378 ( 694)	2657 ( 775)	2779 ( 811)	3039 ( 886)	2941 ( 858)	2941 ( 858)
50	2014 ( 587)	2335 ( 681)	2638 ( 770)	2642 ( 771)	2374 ( 692)	2374 ( 692)
55	1722 ( 502)	2007 ( 585)	2307 ( 673)	2096 ( 611)	2037 ( 594)	2037 ( 594)
60	1555 ( 454)	1713 ( 500)	1907 ( 556)	1993 ( 581)	2174 ( 634)	2174 ( 634)
65	1383 ( 403)	1445 ( 421)	1554 ( 453)	2072 ( 604)	2118 ( 618)	2118 ( 618)
70	1315 ( 384)	1342 ( 391)	1706 ( 498)	2052 ( 599)	1929 ( 563)	1929 ( 563)
75	1332 ( 388)	1383 ( 403)	1854 ( 541)	1742 ( 508)	1941 ( 566)	1941 ( 566)
80	1400 ( 408)	1501 ( 438)	1774 ( 517)	1997 ( 583)	2358 ( 688)	2358 ( 688)
85	1045 ( 305)	1335 ( 389)	1736 ( 506)	2513 ( 733)	2664 ( 777)	2664 ( 777)

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	.95	.95	.95	.95	.92	.92	.92	.92	.88	.88	.88	.85	.85	.85	.81	.81	.81	.79				
1	.87	.83	.80	.77	.85	.81	.78	.75	.78	.75	.73	.75	.73	.71	.72	.70	.69	.67				
2	.79	.73	.68	.64	.78	.72	.67	.63	.69	.65	.62	.66	.63	.60	.64	.61	.59	.57				
3	.73	.65	.59	.54	.71	.64	.58	.54	.62	.57	.53	.60	.56	.52	.58	.54	.51	.49				
4	.67	.58	.52	.47	.66	.57	.51	.46	.55	.50	.46	.54	.49	.45	.52	.48	.45	.43				
5	.62	.52	.45	.40	.60	.51	.44	.40	.49	.44	.39	.48	.43	.39	.46	.42	.38	.37				
6	.57	.47	.40	.35	.56	.46	.39	.35	.45	.39	.34	.43	.38	.34	.42	.37	.34	.32				
7	.53	.42	.35	.31	.51	.42	.35	.30	.40	.34	.30	.39	.34	.30	.38	.33	.30	.28				
8	.49	.38	.31	.27	.47	.37	.31	.26	.36	.30	.26	.35	.30	.26	.34	.30	.26	.24				
9	.45	.34	.27	.23	.44	.34	.27	.23	.33	.27	.23	.32	.26	.23	.31	.26	.22	.21				
10	.41	.31	.24	.20	.41	.30	.24	.20	.30	.24	.20	.29	.24	.20	.28	.23	.20	.18				

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 36.1  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.